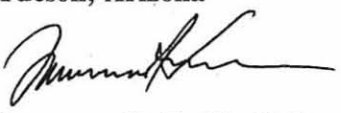
REPORT ON
ANNUAL GROUNDWATER MONITORING, 2008
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

for

The Boeing Company,
National Aeronautics and Space Administration (NASA),
and
U.S. Department of Energy (DOE)
Canoga Park, California

by

Haley & Aldrich, Inc.
Tucson, Arizona



Lawrence P. Smith, P.G.
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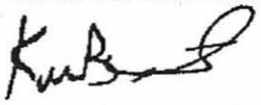

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File No. 32600/05/10/M497
27 February 2009

HALEY& ALDRICH

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LIST OF ACRONYMS AND ABBREVIATIONS

ASU	air stripping unit
CCR	California Code of Regulations
CFOU	Chatsworth Formation Operable Unit
1,1-DCA	1,1-dichloroethane
1,1-DCE	1,1-dichloroethene
cis-1,2-DCE	cis-1,2-dichloroethene
COC	constituent of concern
DMR	Discharge Monitoring Reports
DPH	(California) Department of Public Health
DTSC	(California) Department of Toxic Substances Control
EFH	extractable fuel hydrocarbons
EPA	(United States) Environmental Protection Agency
FLUTe	Flexible Liner Underground Technologies, LLC
FSDF	Former Sodium Disposal Facility
GWRC	Groundwater Resources Consultants, Inc.
K-40	potassium-40
LC	liquid chromatography
LCS/LCSD	laboratory control sample/laboratory control sample duplicate
LUFT	leaking underground fuel tank
MCL	maximum contaminant level
MDA	minimum detectable activity
MDL	method detection limit
mg/L	milligrams per liter
MS	mass spectrometry
MS/MSD	matrix spike/matrix spike duplicate
MSL	mean sea level
NDMA	n-nitrosodimethylamine
NL	notification level
NPDES	National Pollutant Discharge Elimination System
PCB	polychlorinated biphenyl
PCE	tetrachloroethene
pCi/L	picoCuries per liter
per mil	parts per thousand
pg/L	picograms per liter
QAPP	Quality Assurance Project Plan
QA/QC	quality assurance and quality control
Ra-226	radium-226
Ra-228	radium-228
RAL	regulatory action level
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
RPD	replicate percent difference
SAP	Sampling and Analysis Plan
SDG	sample delivery group
SDWA	Safe Drinking Water Act
SSFL	Santa Susana Field Laboratory
SMCL	secondary maximum contaminant level
SMOU	Surficial Media Operable Unit
Sr-90	strontium-90

LIST OF ACRONYMS AND ABBREVIATIONS
(continued)

SVOC	semi-volatile organic compound
2,3,7,8-TCDD	2,3,7,8-tetrachlorodibenzo-p-dioxin
2,3,7,8-TCDD TEQ	2,3,7,8-TCDD toxic equivalency
TCE	trichloroethene
trans-1,2-DCE	trans-1,2-dichloroethene
TEQ	toxic equivalency
µg/L	micrograms per liter
U-233/234	uranium-233/234
U-235	uranium-235
U-238	uranium-238
UV	ultra-violet
VOC	volatile organic compound
V-SMOW	Vienna Standard Mean Ocean Water

APPENDIX A

Water Level Hydrographs

APPENDIX A
WATER LEVEL HYDROGRAPHS

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WATER LEVEL HYDROGRAPHS

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Shallow Wells

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Chatsworth Formation Wells

Figure			Well Identifier
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A-135	through	A-139	RD-36A, RD-36B, RD-36C, RD-36D, and RD-37
A-140	through	A-141	RD-38A, RD-38B
A-142	through	A-144	RD-39A, RD-39B, and RD-40
A-145	through	A-148	RD-41A, RD-41B, RD-41C, and RD-42
A-149	through	A-152	RD-43A, RD-43B, RD-43C, and RD-44
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A-166	through	A-168	RD-51A, RD-51B, RD-51C
A-169	through	A-172	RD-52A, RD-52B, RD-52C, and RD-53
A-173	through	A-175	RD-54A, RD-54B, RD-54C
A-176	through	A-177	RD-55A, RD-55B
A-178	through	A-180	RD-56A, RD-56B, and RD-57
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APPENDIX A
WATER LEVEL HYDROGRAPHS

LIST OF HYDROGRAPHS

Chatsworth Formation Wells

FLUTe System Hydrographs

Westbay System Hydrographs

APPENDIX A
WATER LEVEL HYDROGRAPHS

NOTES

1. Hydrographs were created with data downloaded from the Boeing Environmental Data Management System (BEDMS) with the exception of FLUTe or Westbay system hydrographs. FLUTe and Westbay hydrographs were provided by MWH.

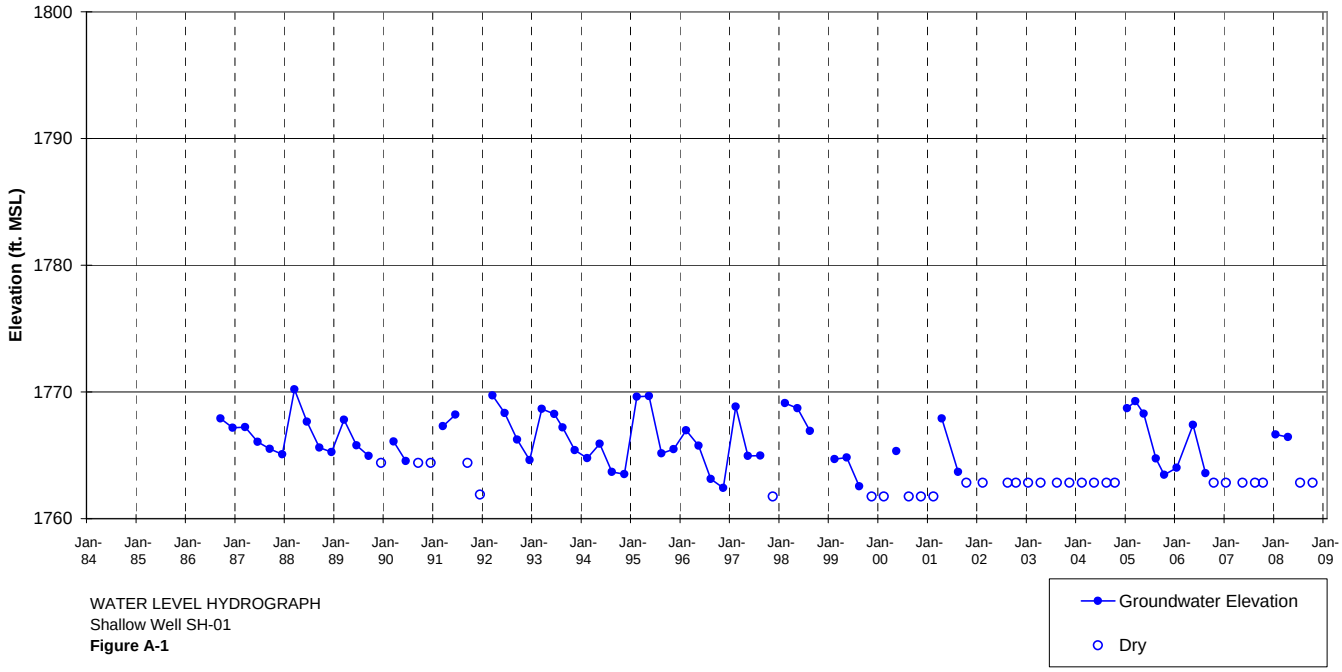
2. Water elevations for wells that were dry at the time of measurement are represented as the approximate elevation of the bottom of the well.

3. A FLUTe system hydrographs were not available for well RD-07 because the transducer was inoperable.

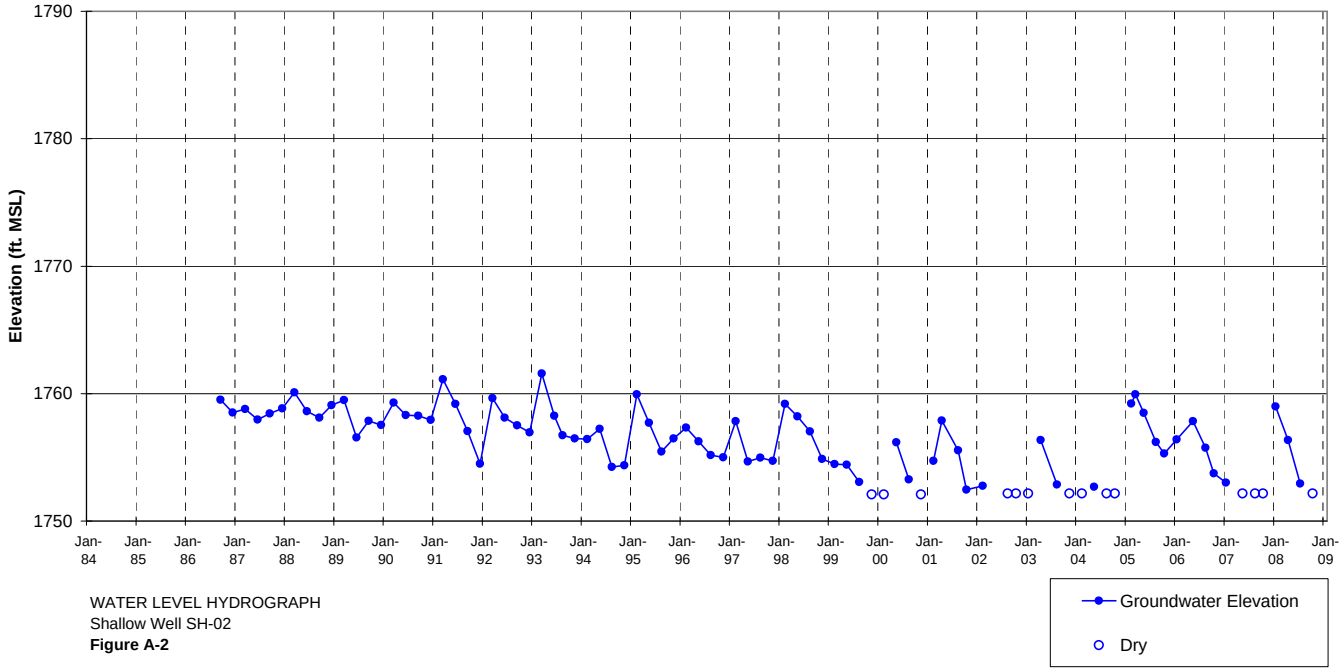
4. Water levels for the following types of ports were not graphed on FLUTe hydrographs:
   - A port that was consistently dry.
   - An uneverted port.
   - A port with a consistently malfunctioning transducer.

5. MPE = Measuring point (MP) elevation.

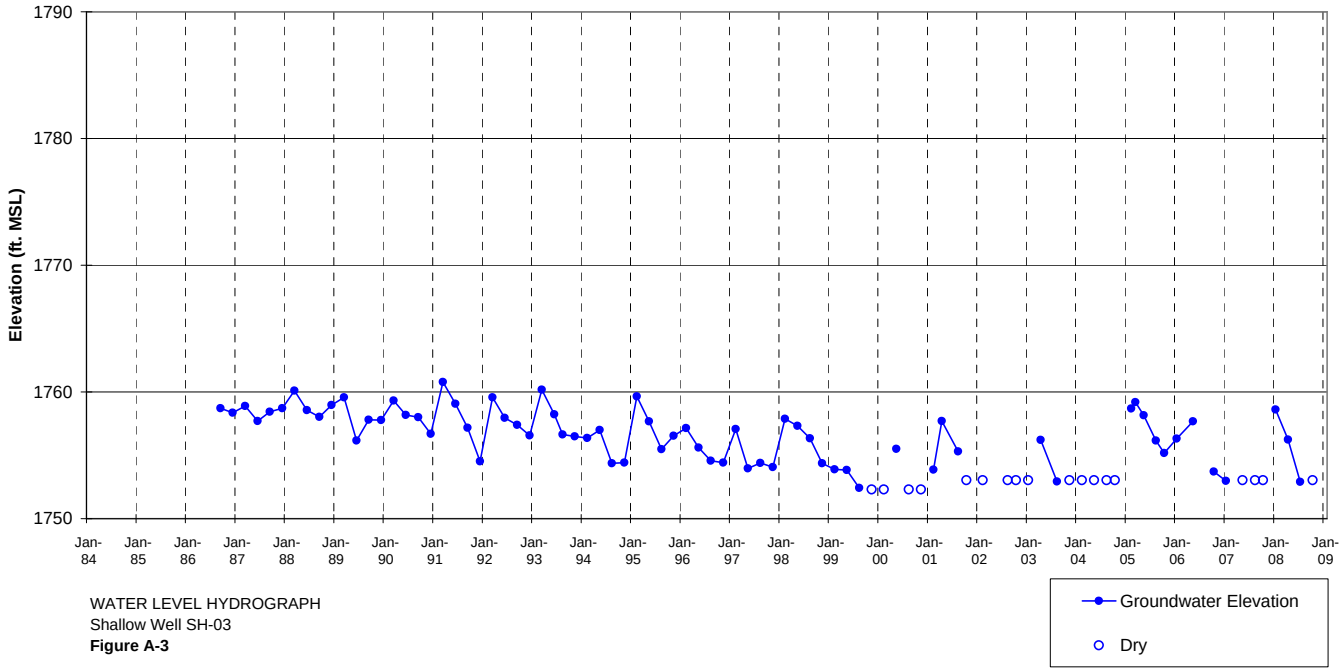
6. ft. MSL = Feet above mean sea level.



WATER LEVEL HYDROGRAPH
Shallow Well SH-01
Figure A-1



WATER LEVEL HYDROGRAPH
Shallow Well SH-02
Figure A-2



WATER LEVEL HYDROGRAPH
Shallow Well SH-03
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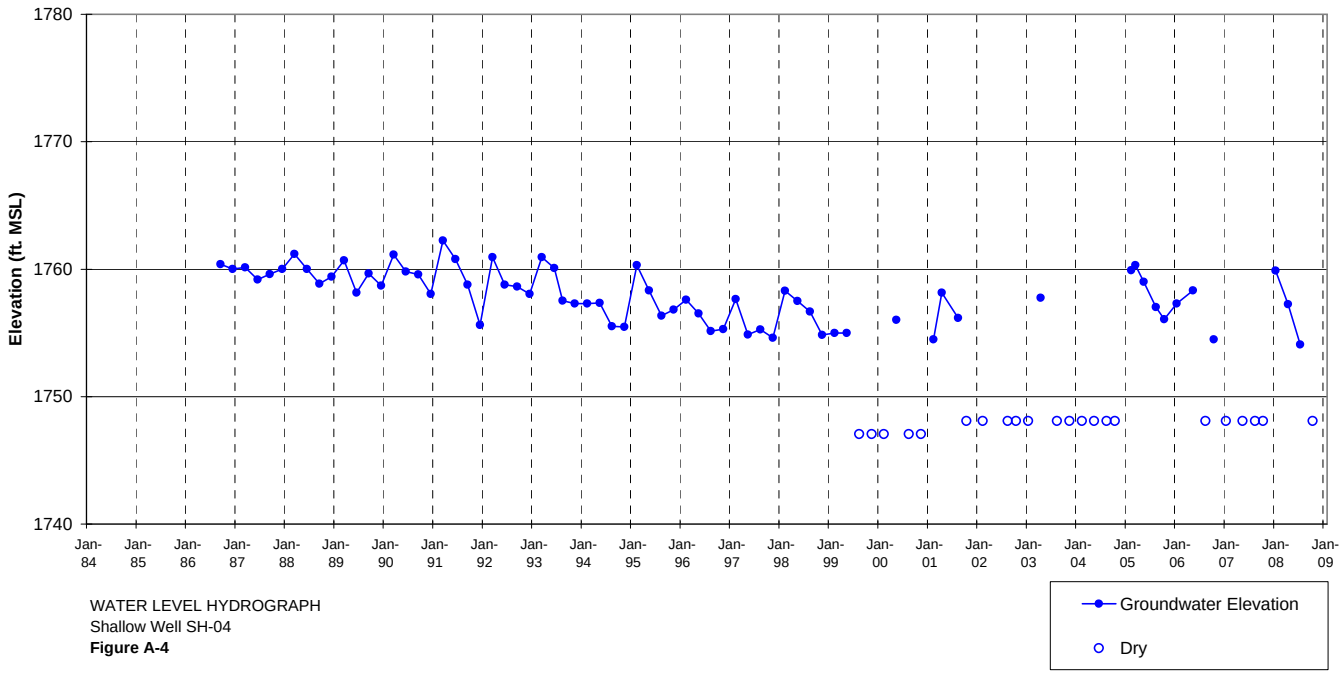
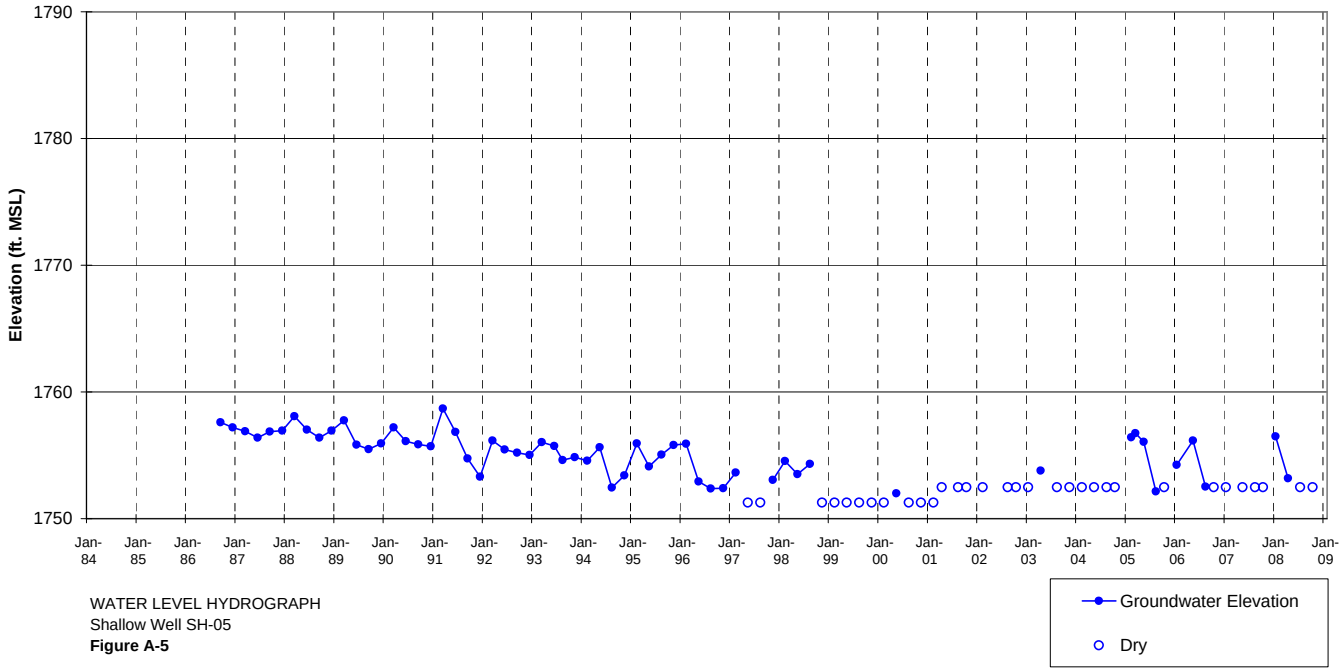
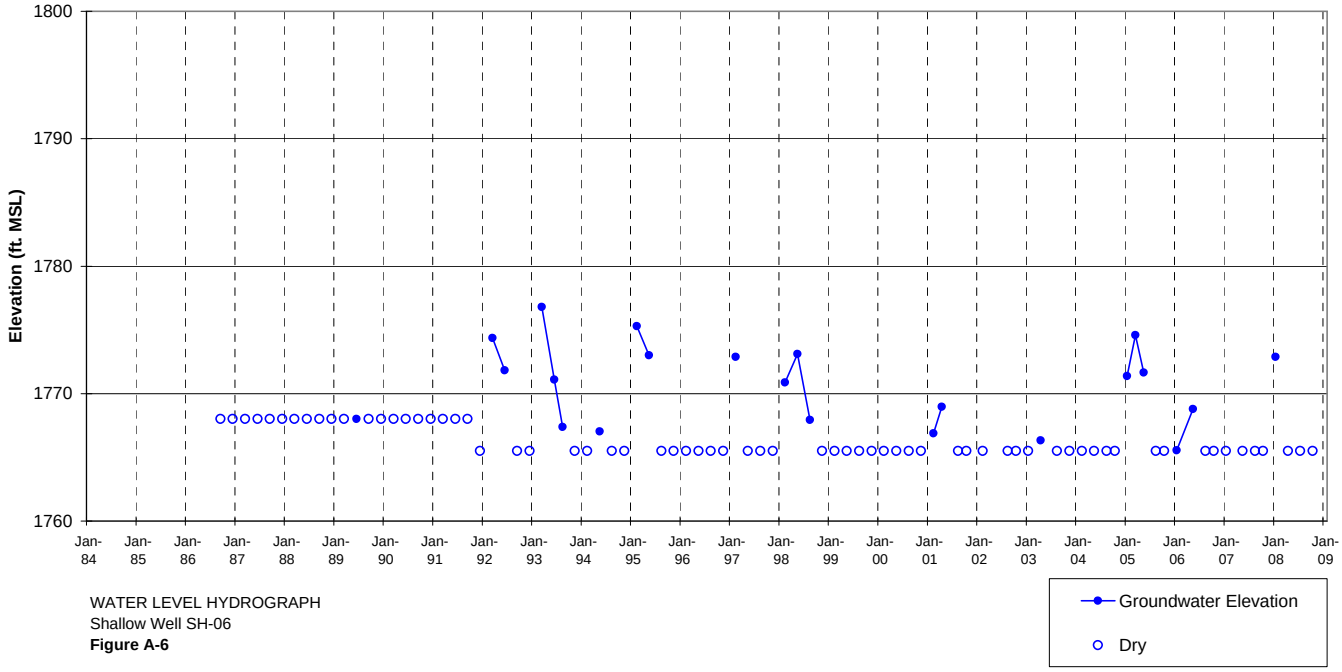


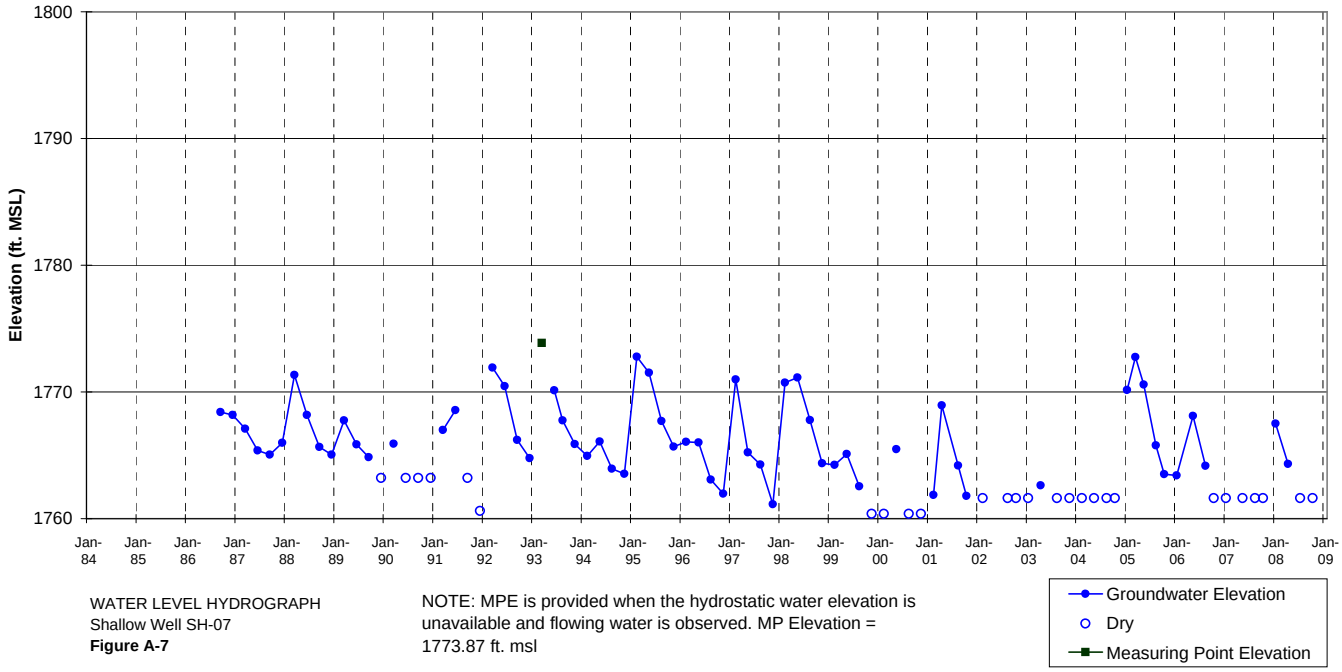
WATER LEVEL HYDROGRAPH
Shallow Well SH-04
Figure A-4



WATER LEVEL HYDROGRAPH
Shallow Well SH-05
Figure A-5



WATER LEVEL HYDROGRAPH
Shallow Well SH-06
Figure A-6



WATER LEVEL HYDROGRAPH
Shallow Well SH-07
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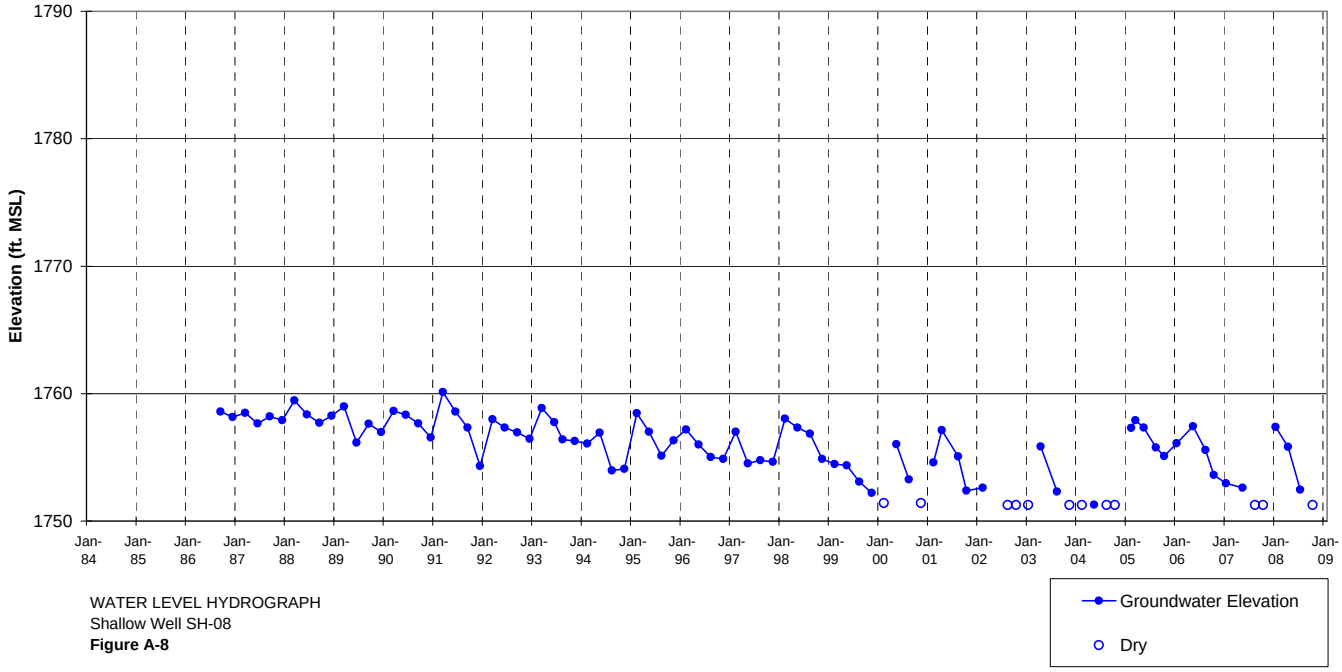
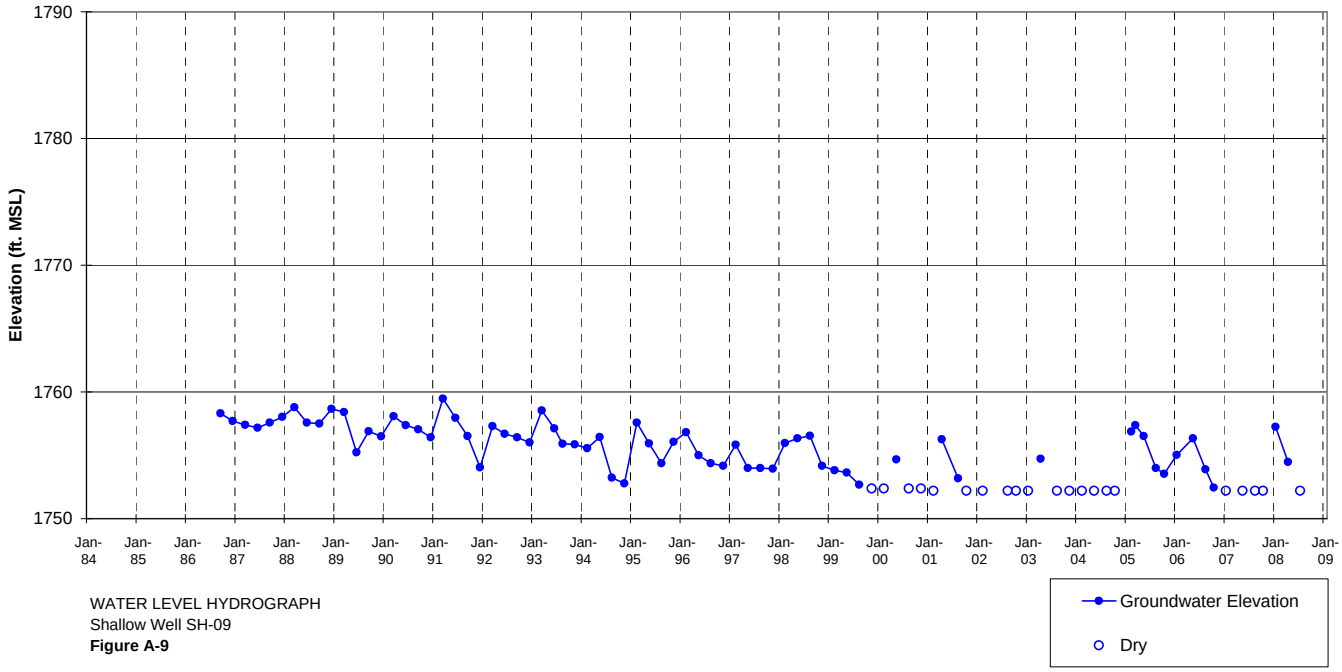
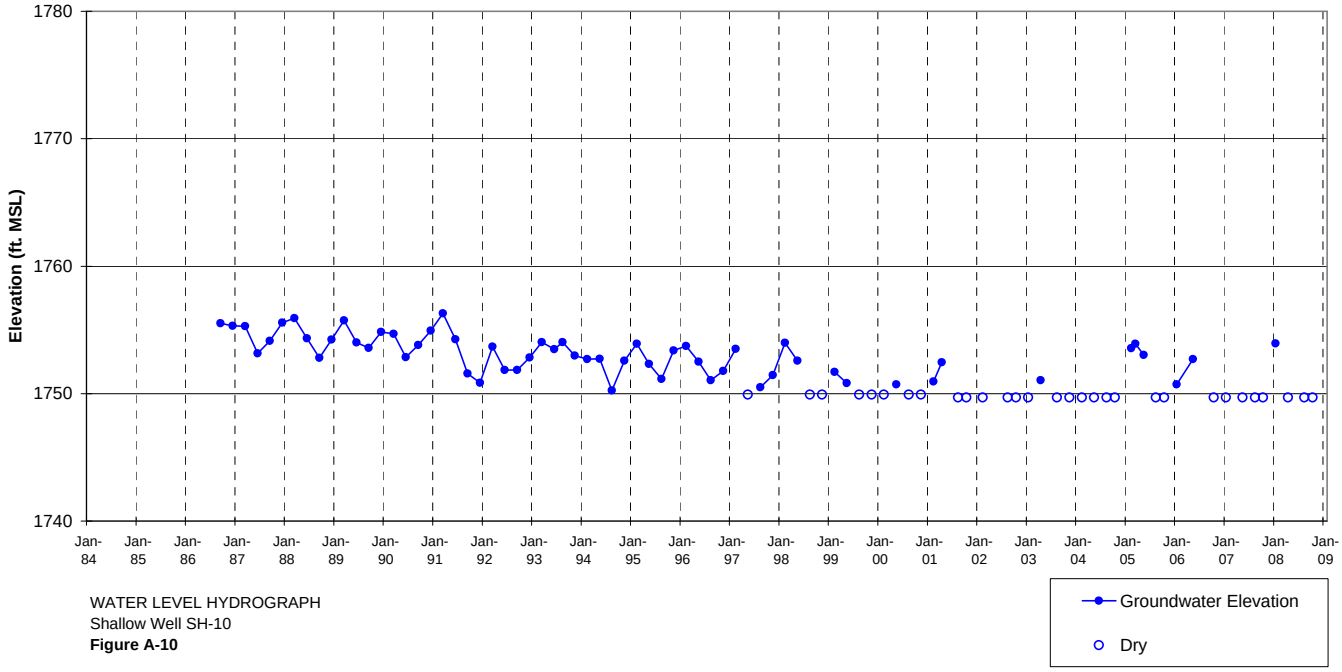
NOTE: MPE is provided when the hydrostatic water elevation is unavailable and flowing water is observed. MP Elevation = 1773.87 ft. msl



WATER LEVEL HYDROGRAPH
Shallow Well SH-08
Figure A-8



WATER LEVEL HYDROGRAPH
Shallow Well SH-09
Figure A-9



WATER LEVEL HYDROGRAPH
Shallow Well SH-10
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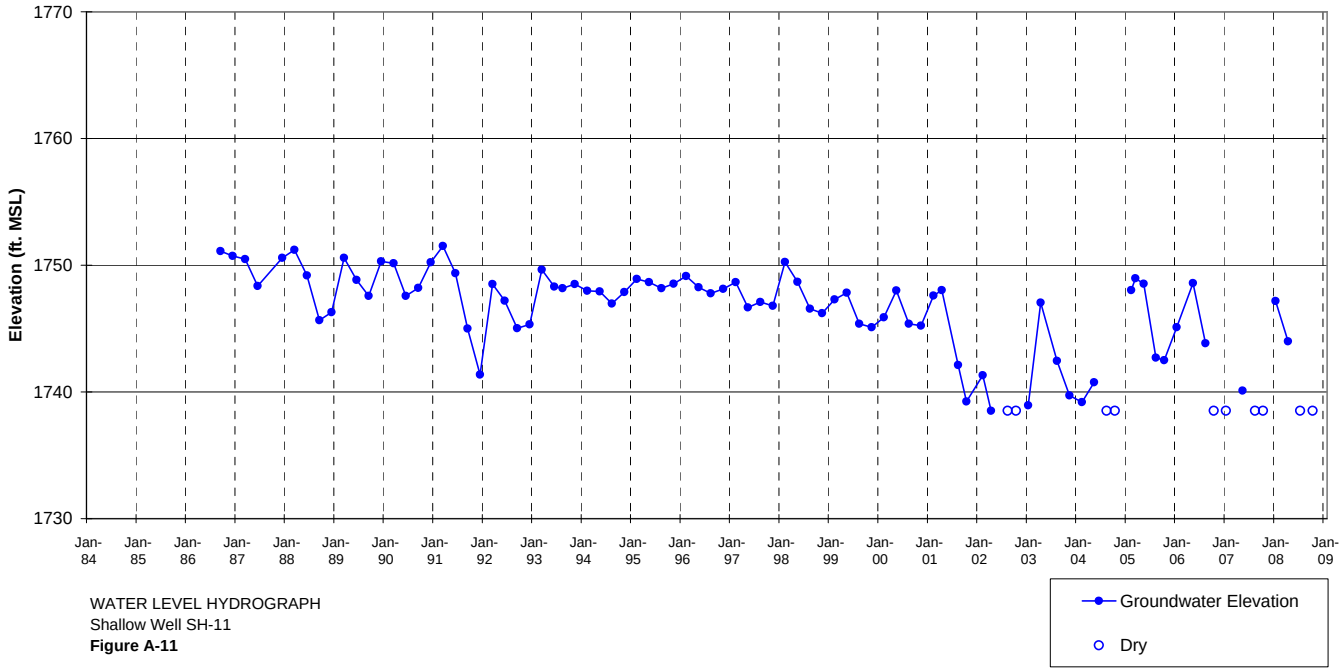

WATER LEVEL HYDROGRAPH
Shallow Well SH-11
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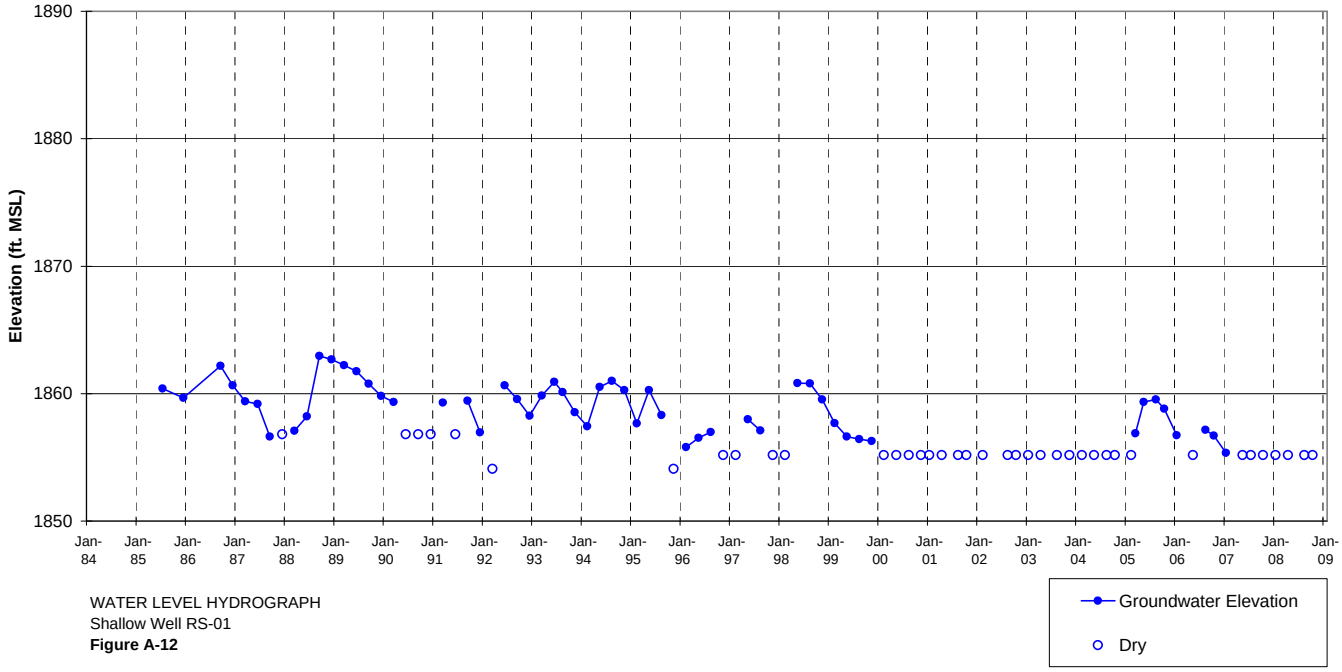

WATER LEVEL HYDROGRAPH
Shallow Well RS-01
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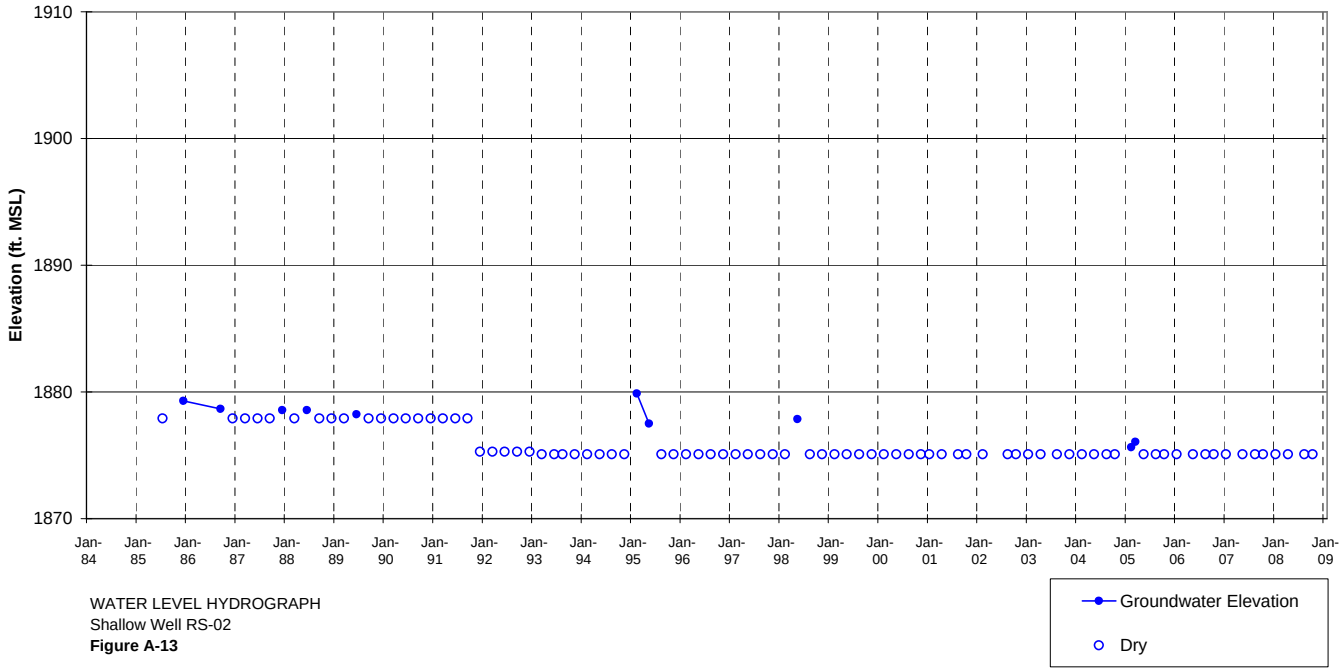

WATER LEVEL HYDROGRAPH
Shallow Well RS-02
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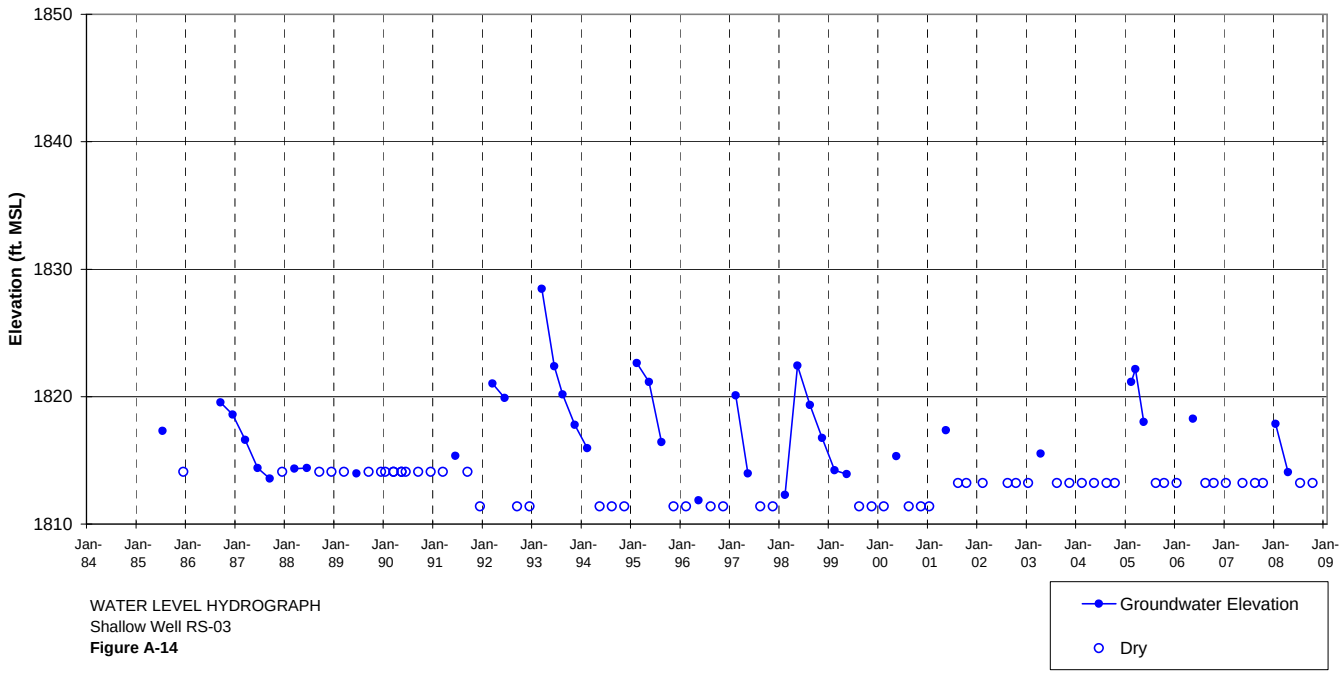
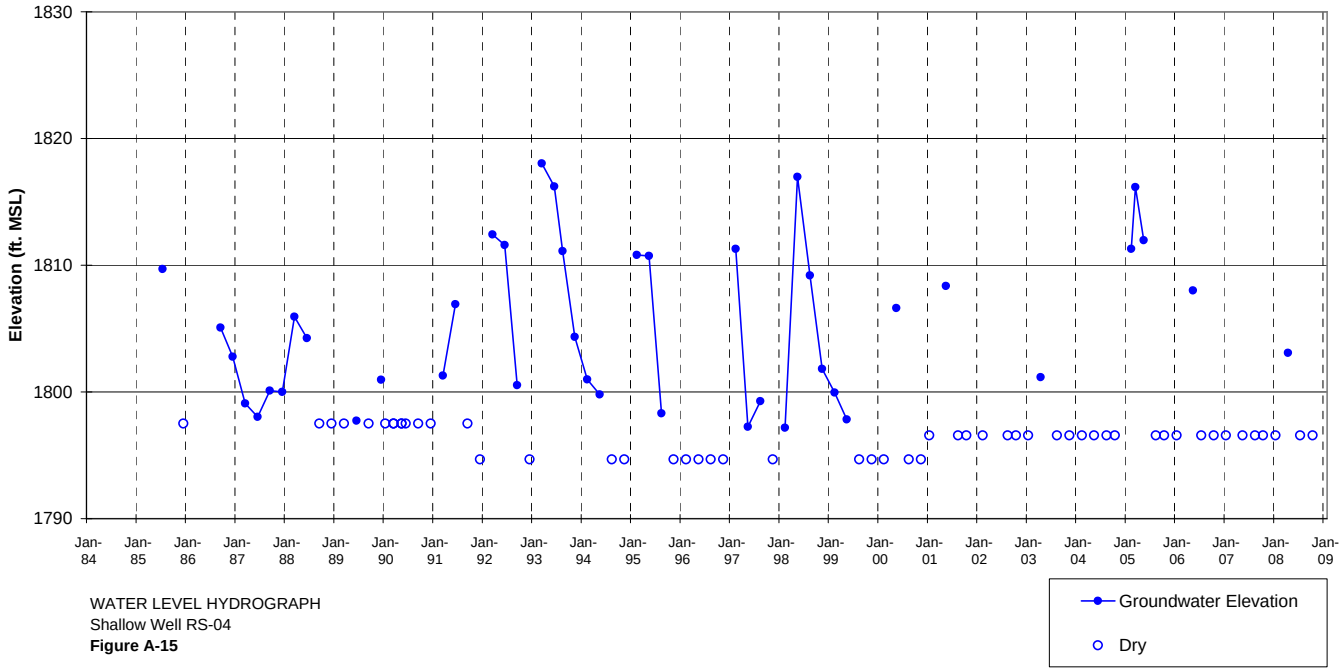


WATER LEVEL HYDROGRAPH
Shallow Well RS-03
Figure A-14



WATER LEVEL HYDROGRAPH
Shallow Well RS-04
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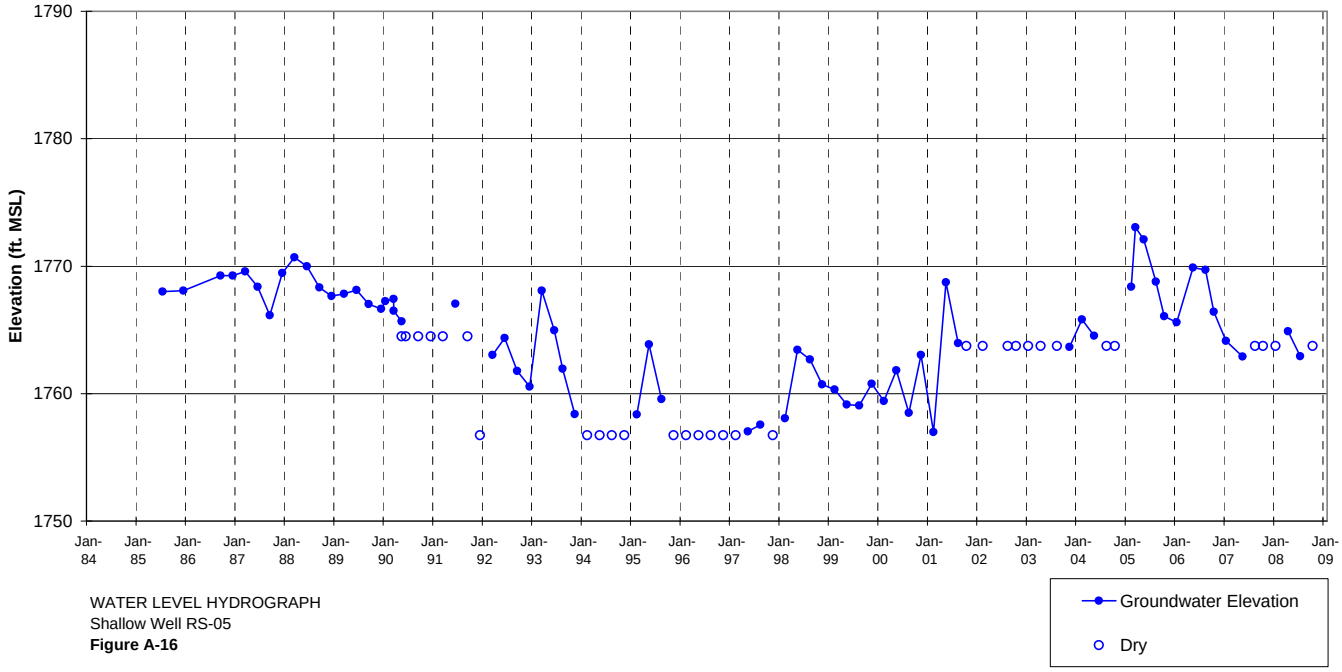

WATER LEVEL HYDROGRAPH
Shallow Well RS-05
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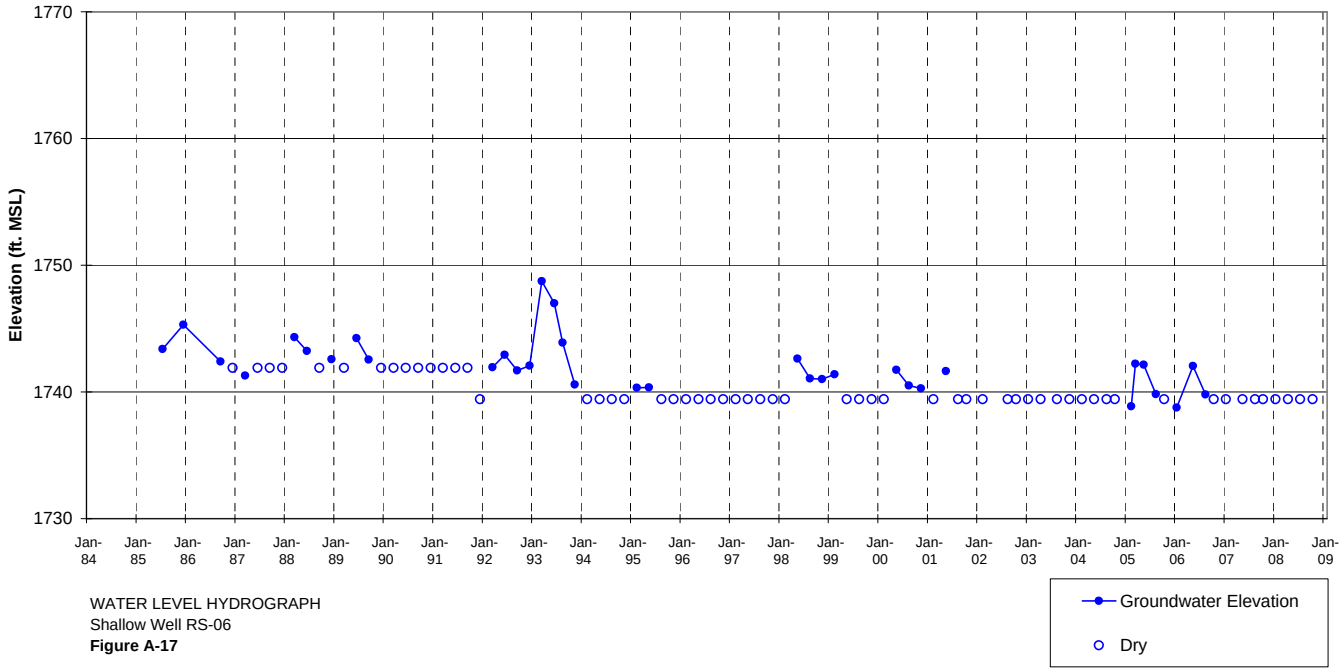

WATER LEVEL HYDROGRAPH
Shallow Well RS-06
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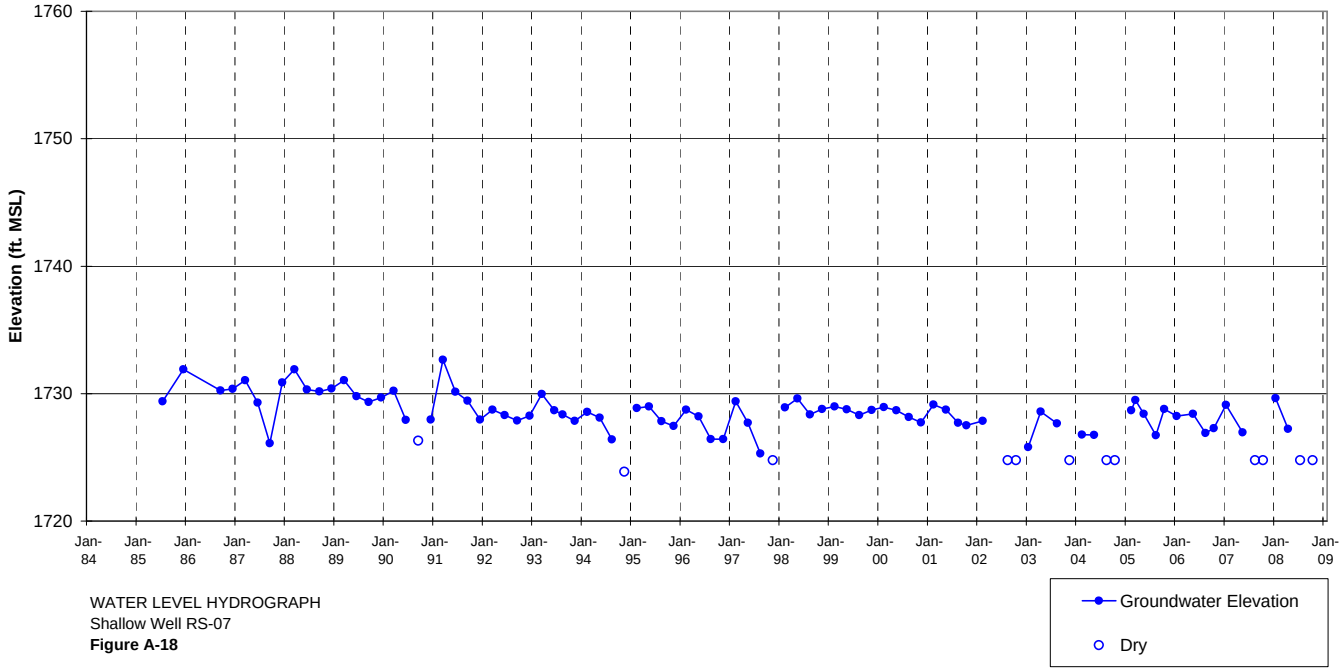

WATER LEVEL HYDROGRAPH
Shallow Well RS-07
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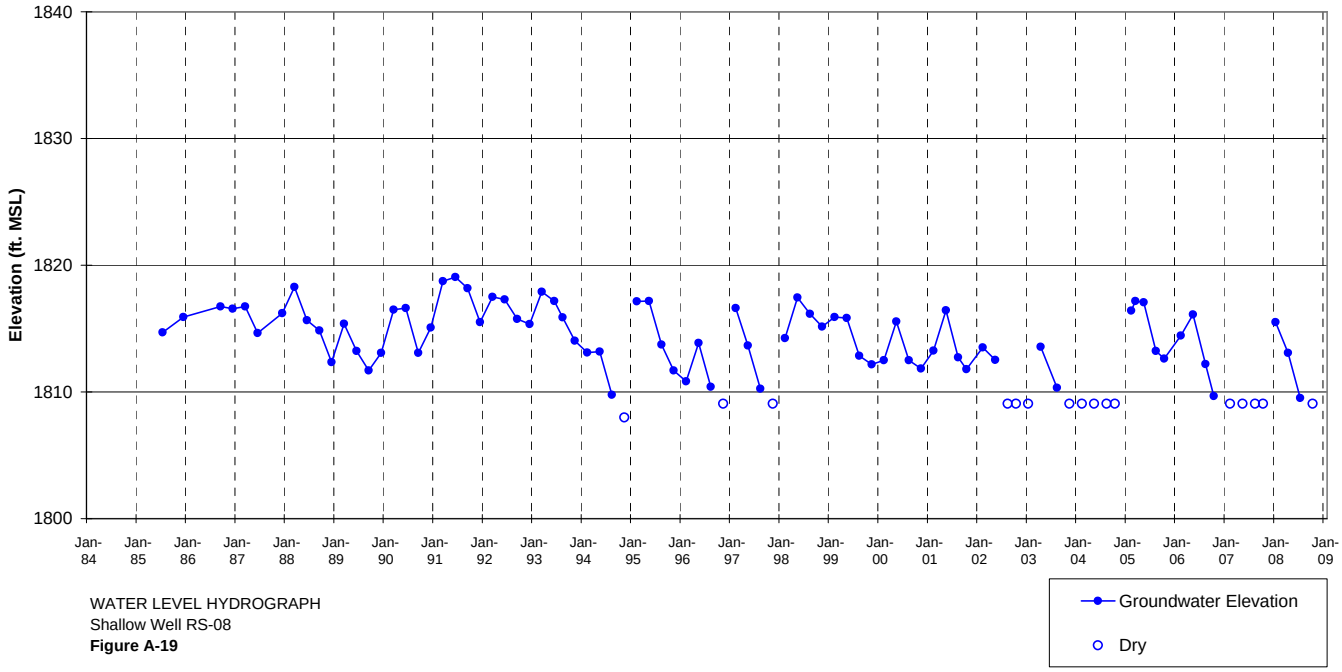

WATER LEVEL HYDROGRAPH
Shallow Well RS-08
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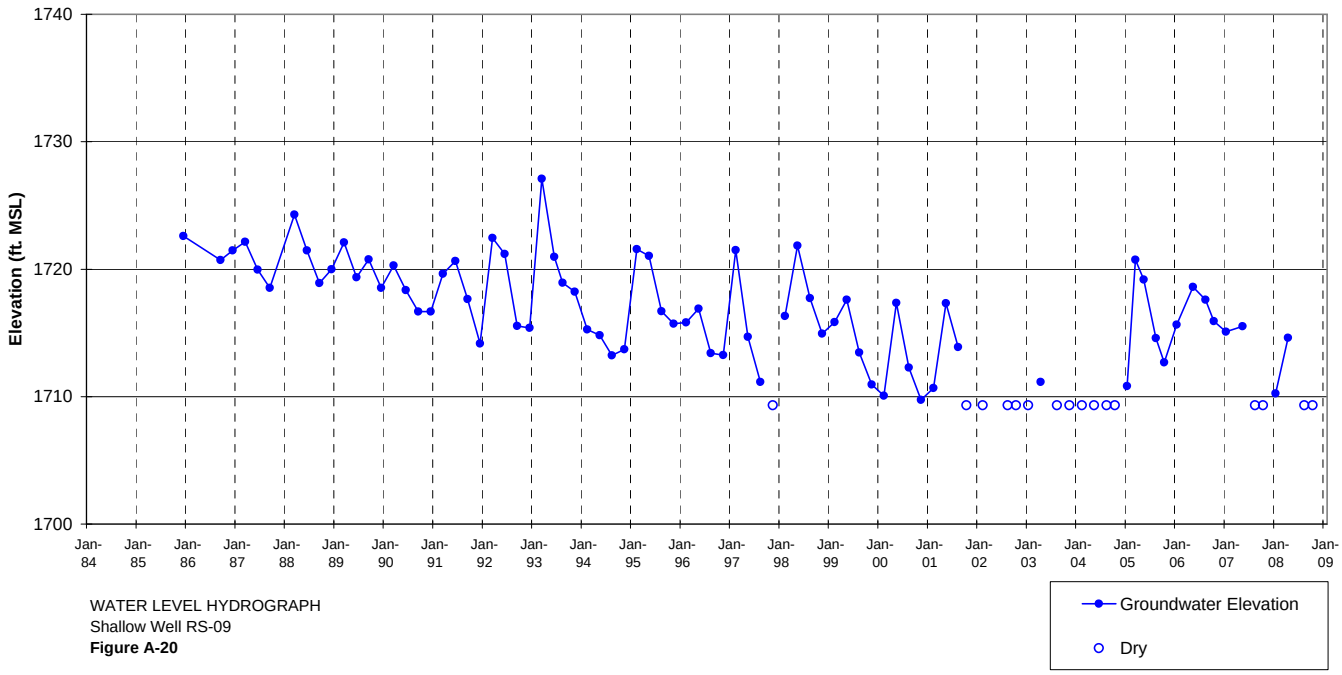

WATER LEVEL HYDROGRAPH
Shallow Well RS-09
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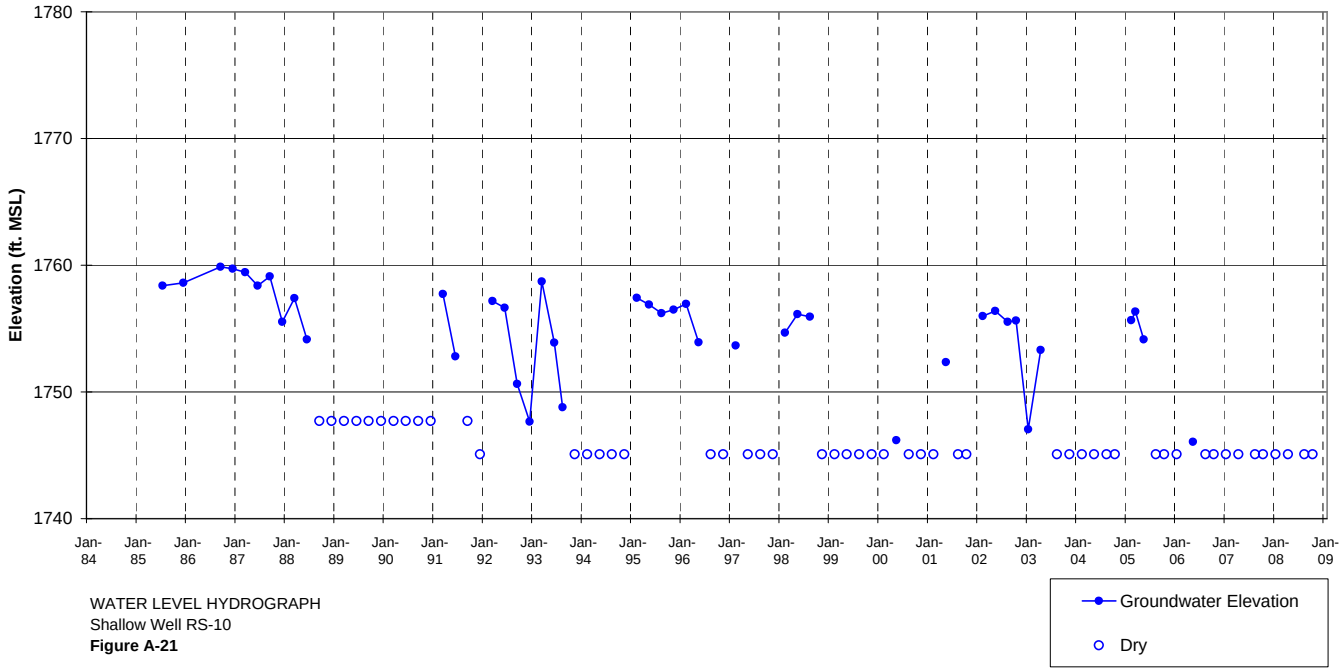
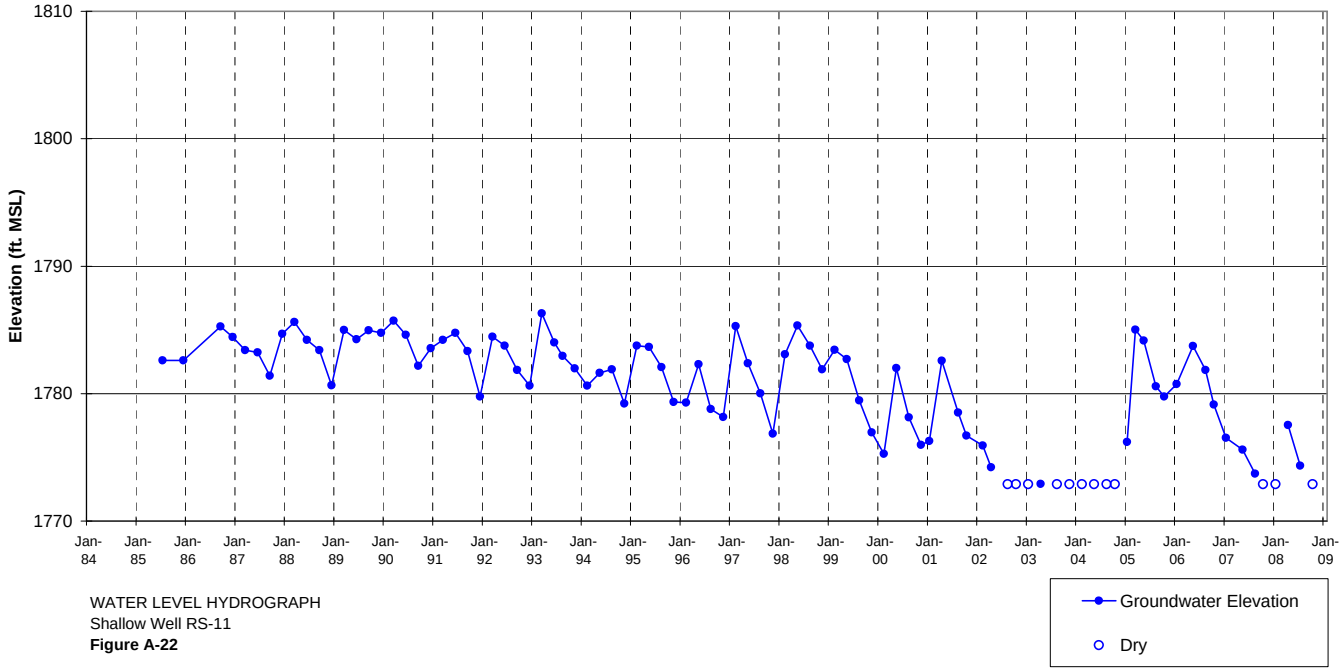
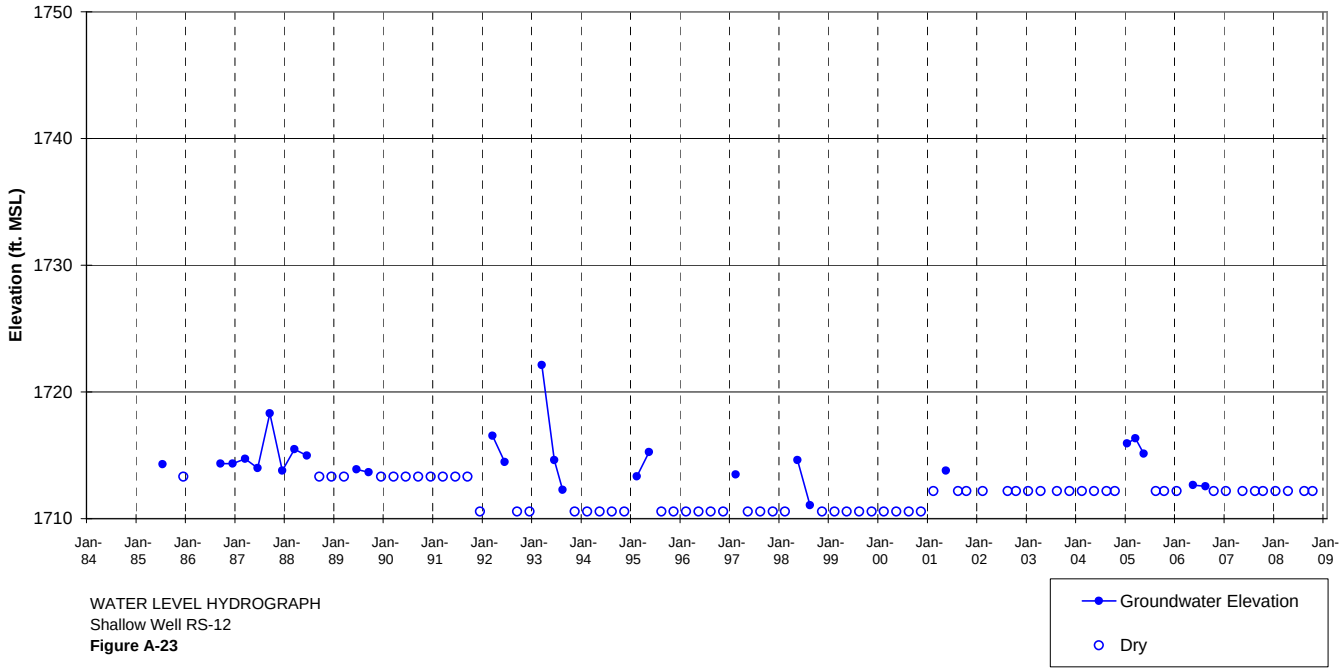


WATER LEVEL HYDROGRAPH
Shallow Well RS-10
Figure A-21



WATER LEVEL HYDROGRAPH
Shallow Well RS-11
Figure A-22



WATER LEVEL HYDROGRAPH
Shallow Well RS-12
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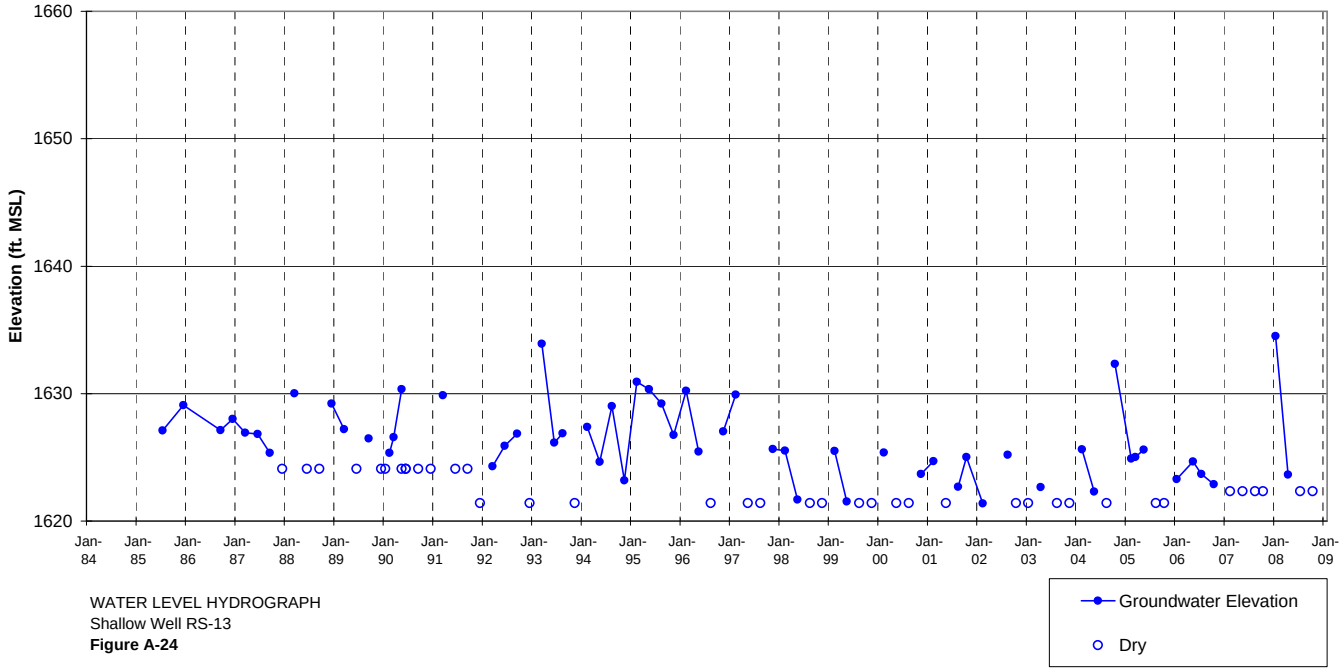
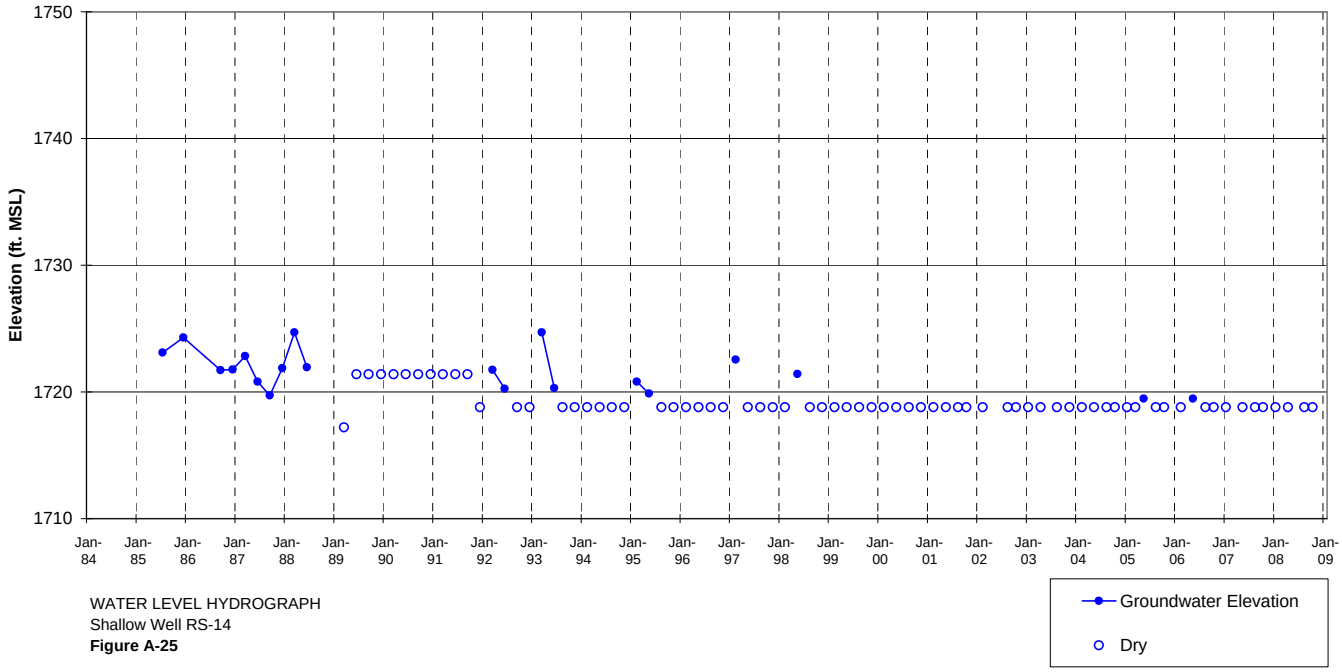
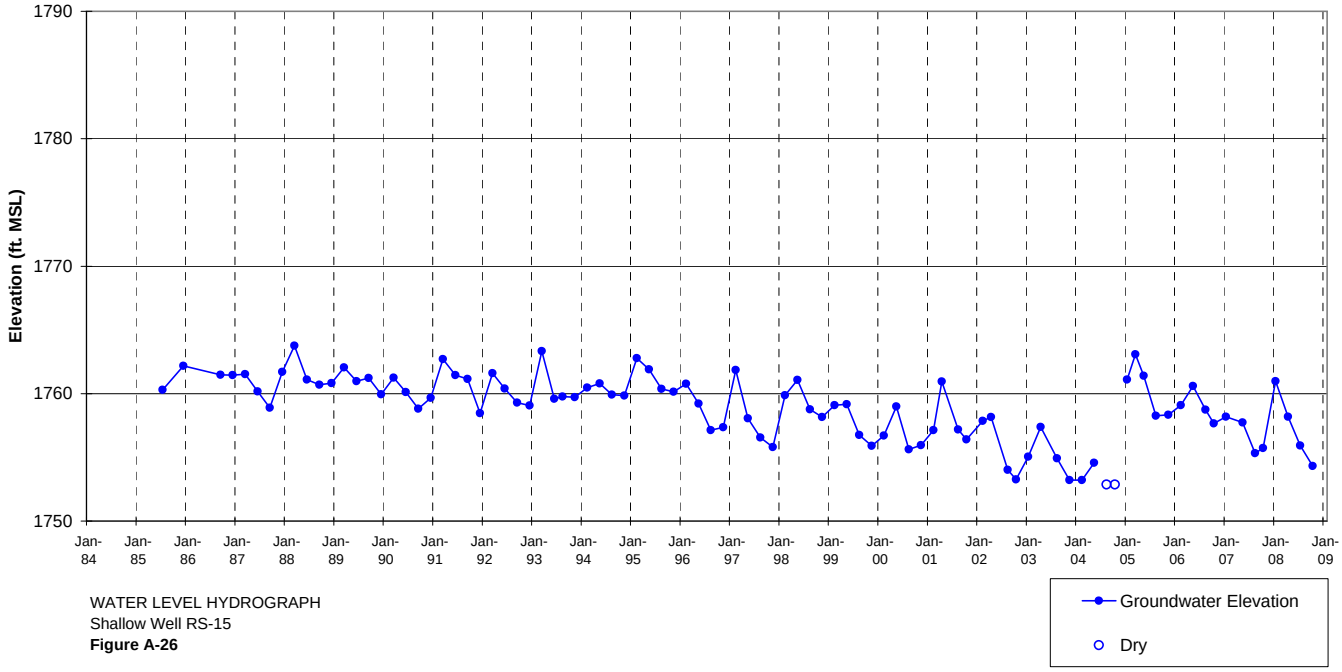


WATER LEVEL HYDROGRAPH
Shallow Well RS-13
Figure A-24



WATER LEVEL HYDROGRAPH
Shallow Well RS-14
Figure A-25



WATER LEVEL HYDROGRAPH
Shallow Well RS-15
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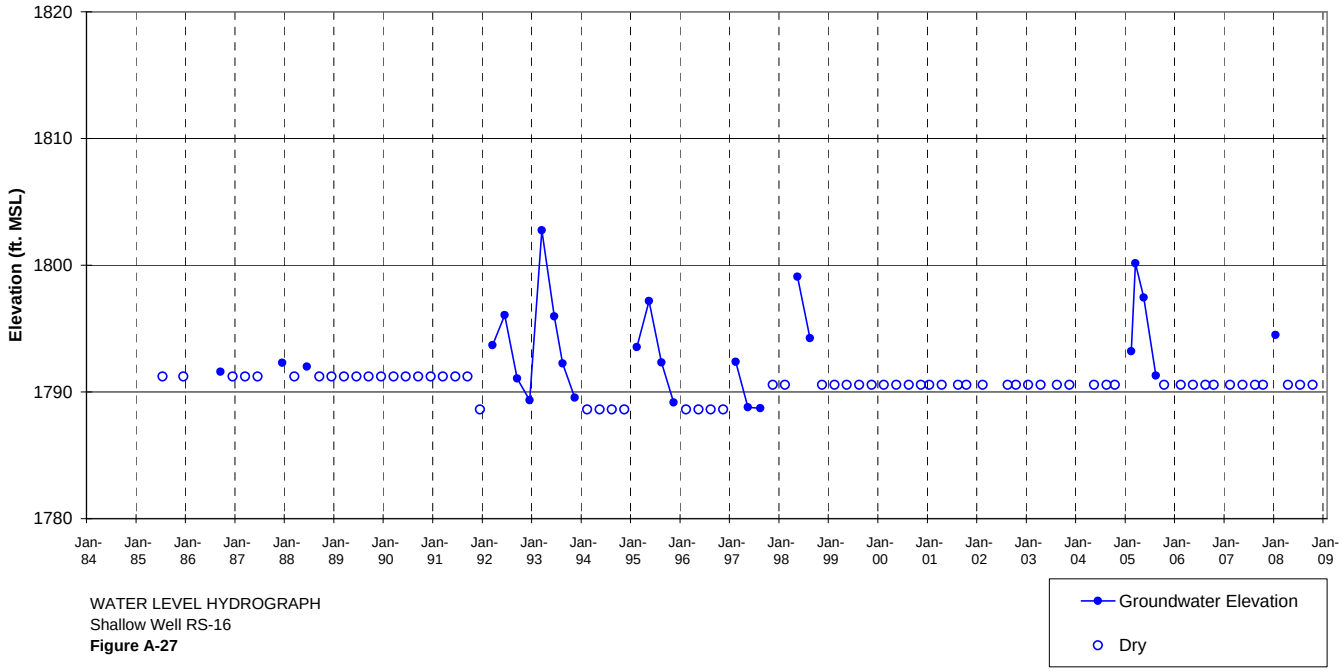

WATER LEVEL HYDROGRAPH
Shallow Well RS-16
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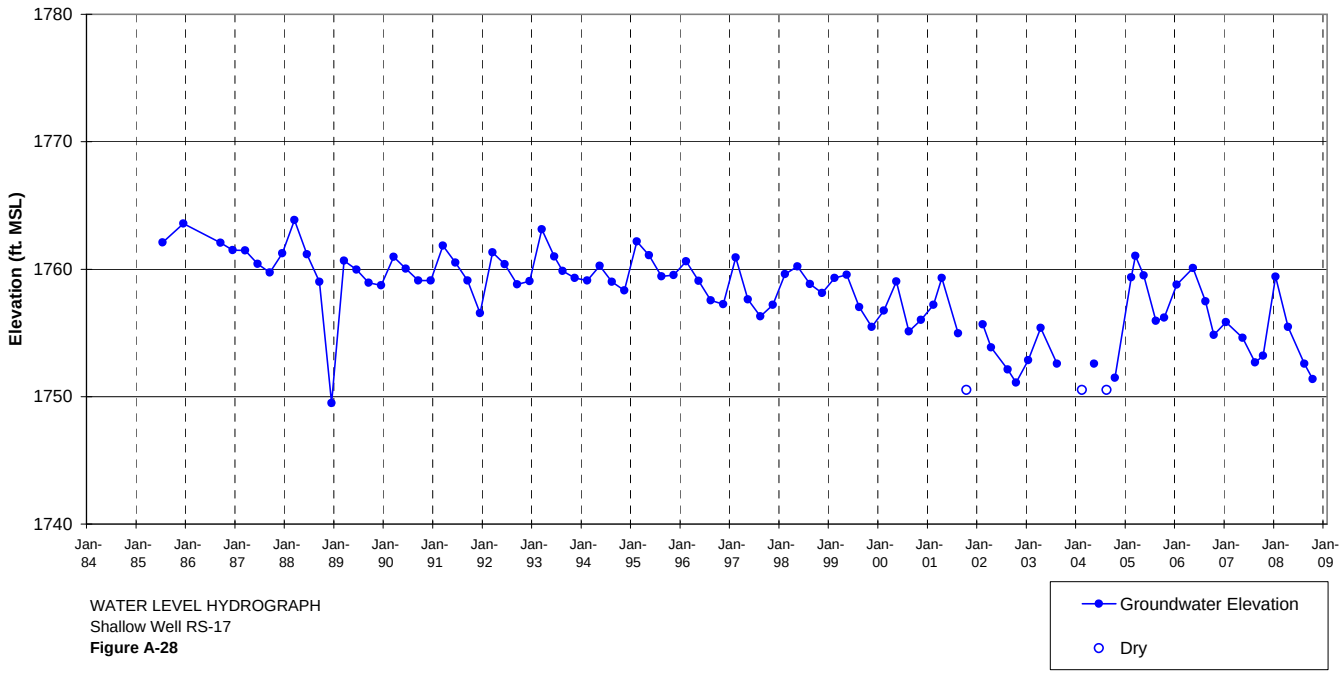

WATER LEVEL HYDROGRAPH
Shallow Well RS-17
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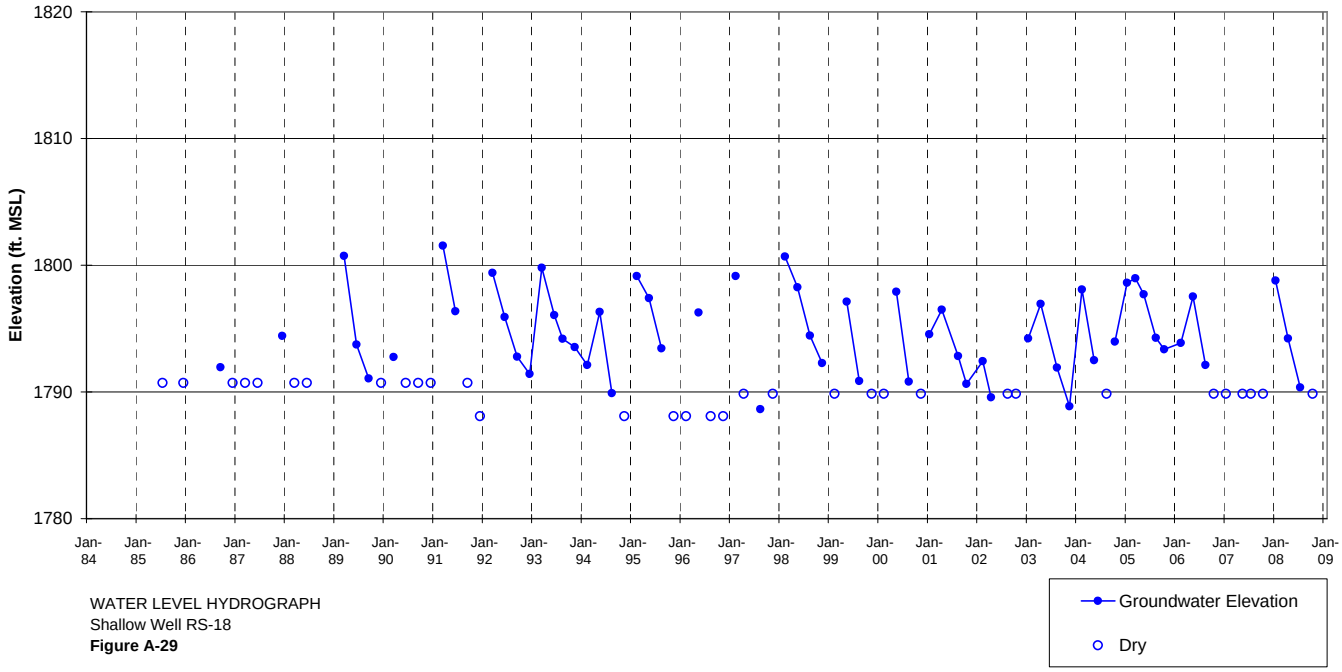

WATER LEVEL HYDROGRAPH
Shallow Well RS-18
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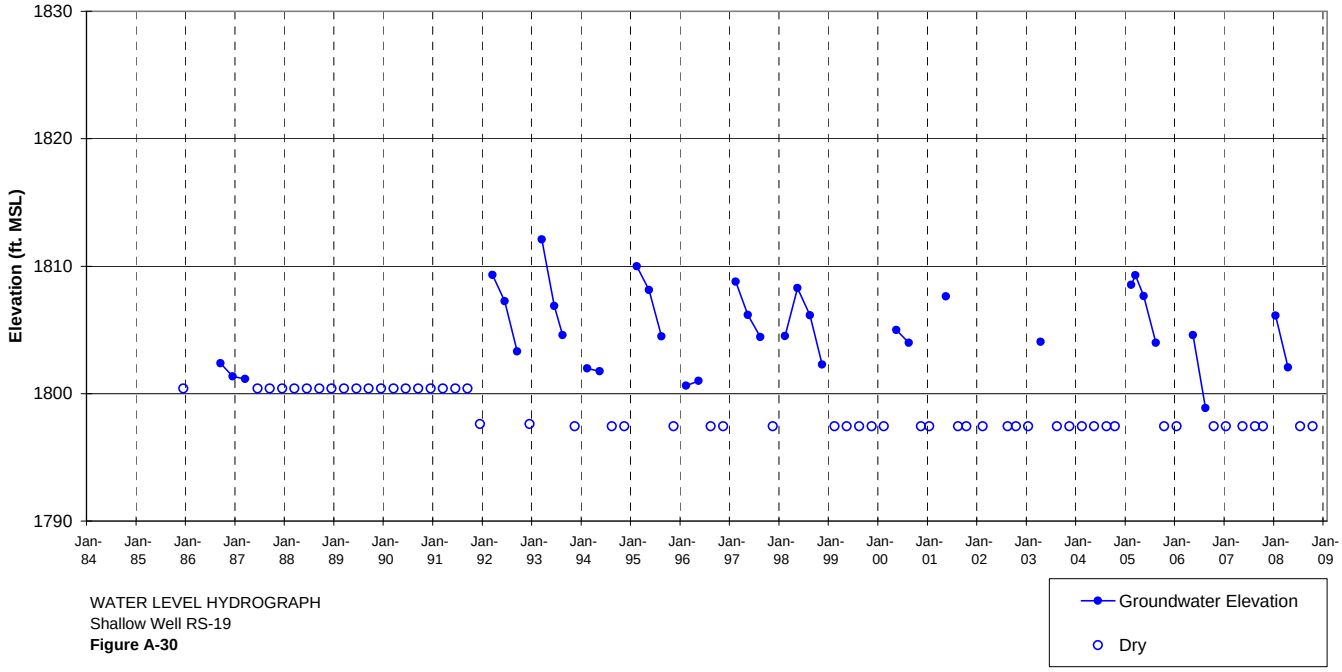
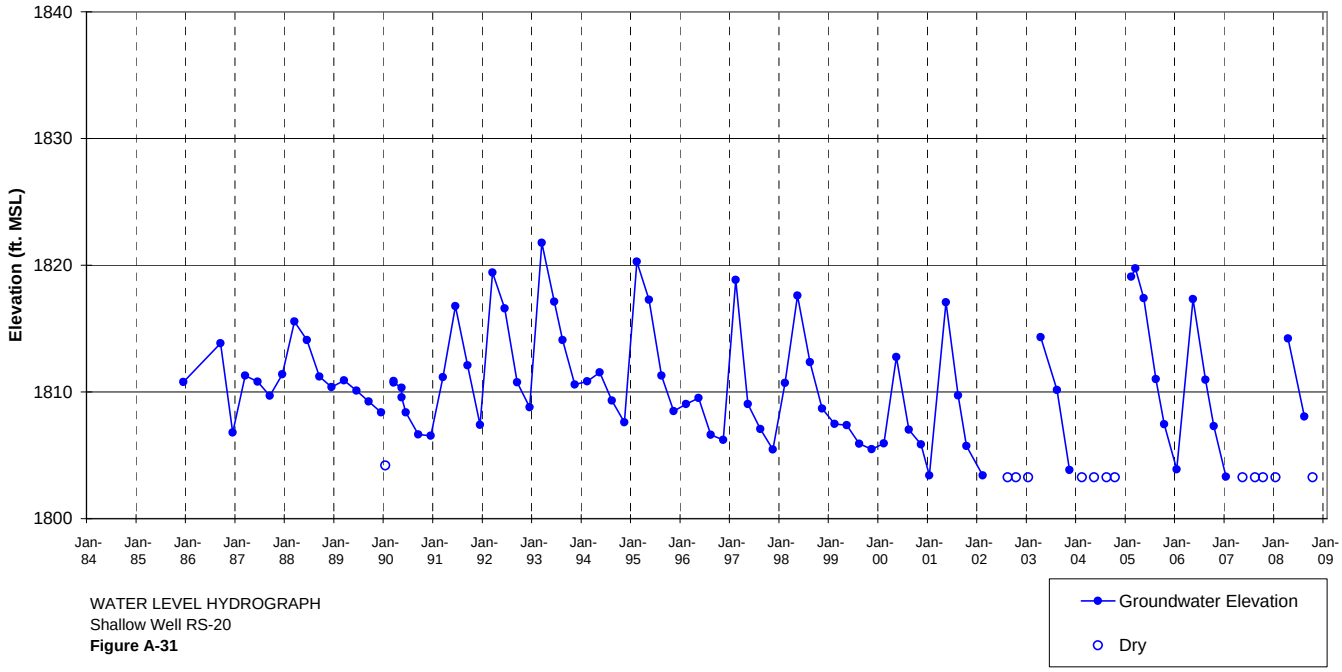


WATER LEVEL HYDROGRAPH
Shallow Well RS-19
Figure A-30



WATER LEVEL HYDROGRAPH
Shallow Well RS-20
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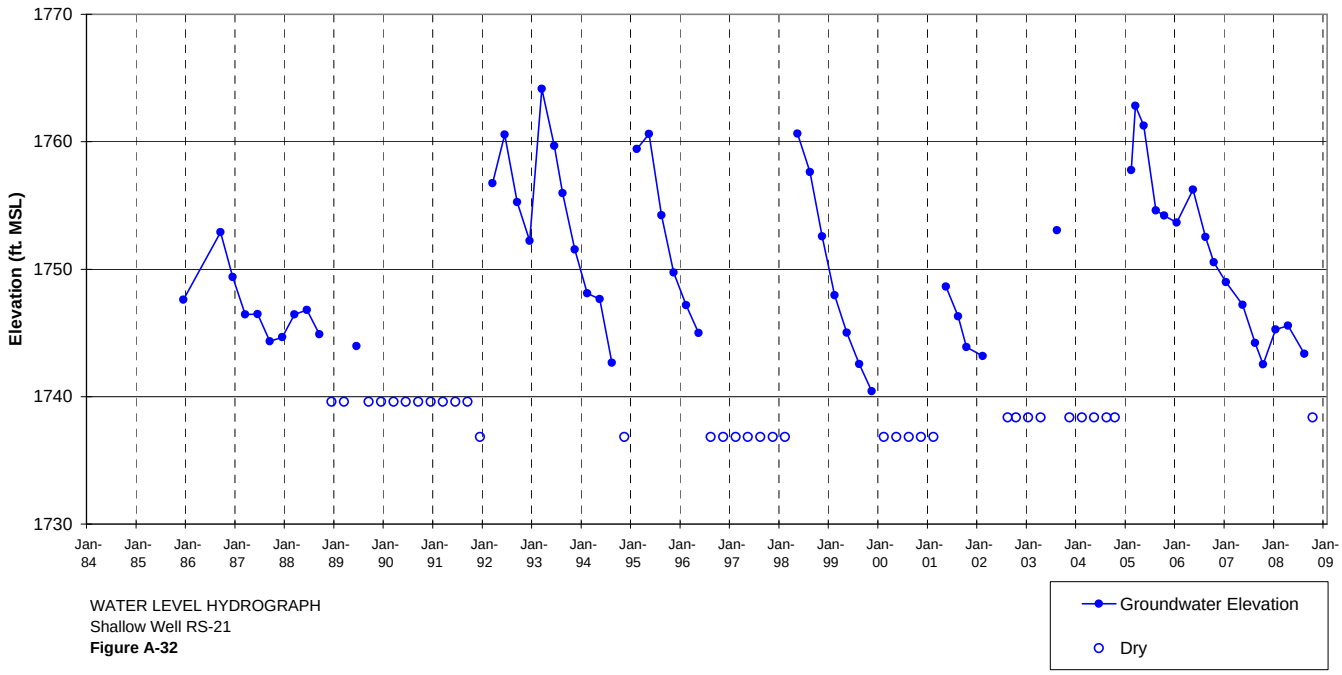

WATER LEVEL HYDROGRAPH
Shallow Well RS-21
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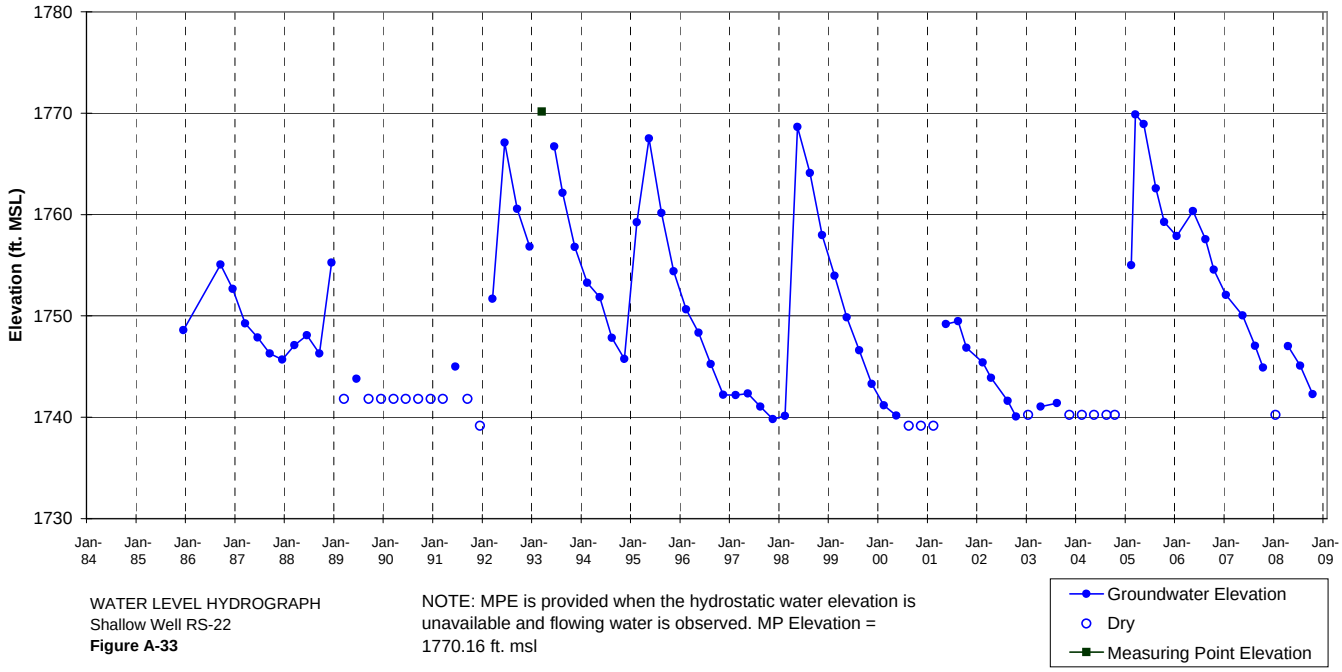
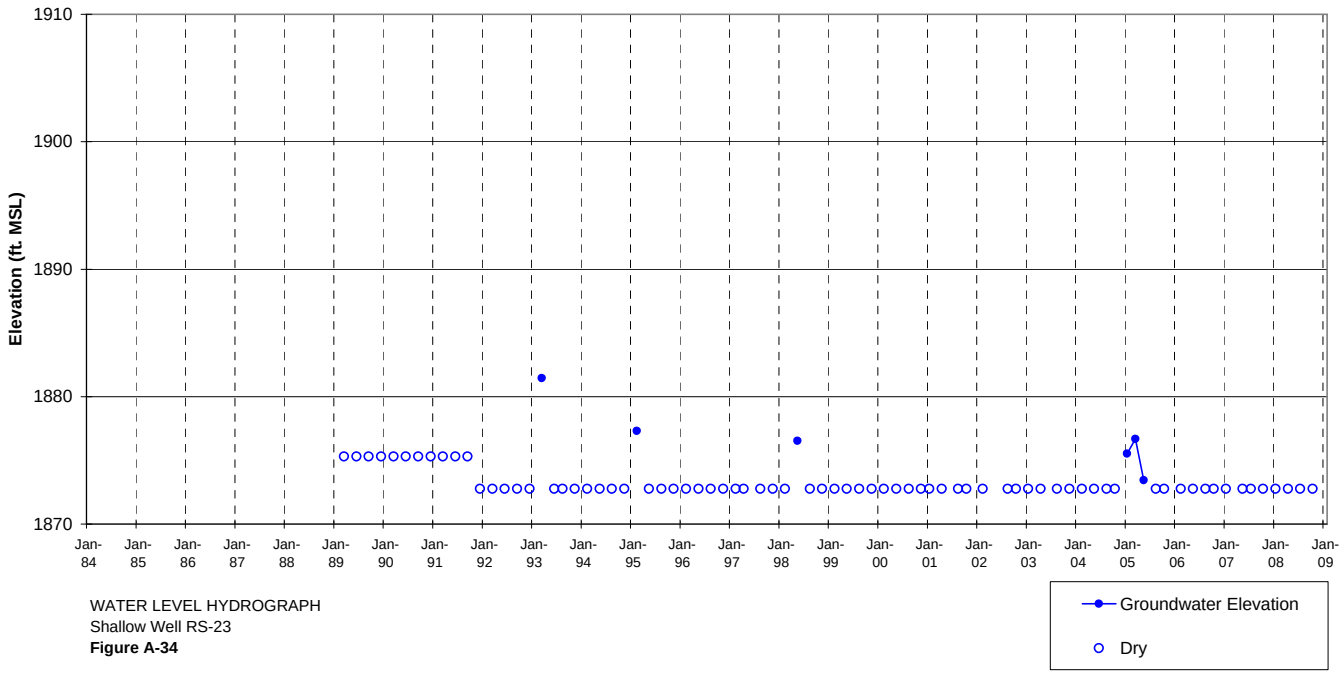
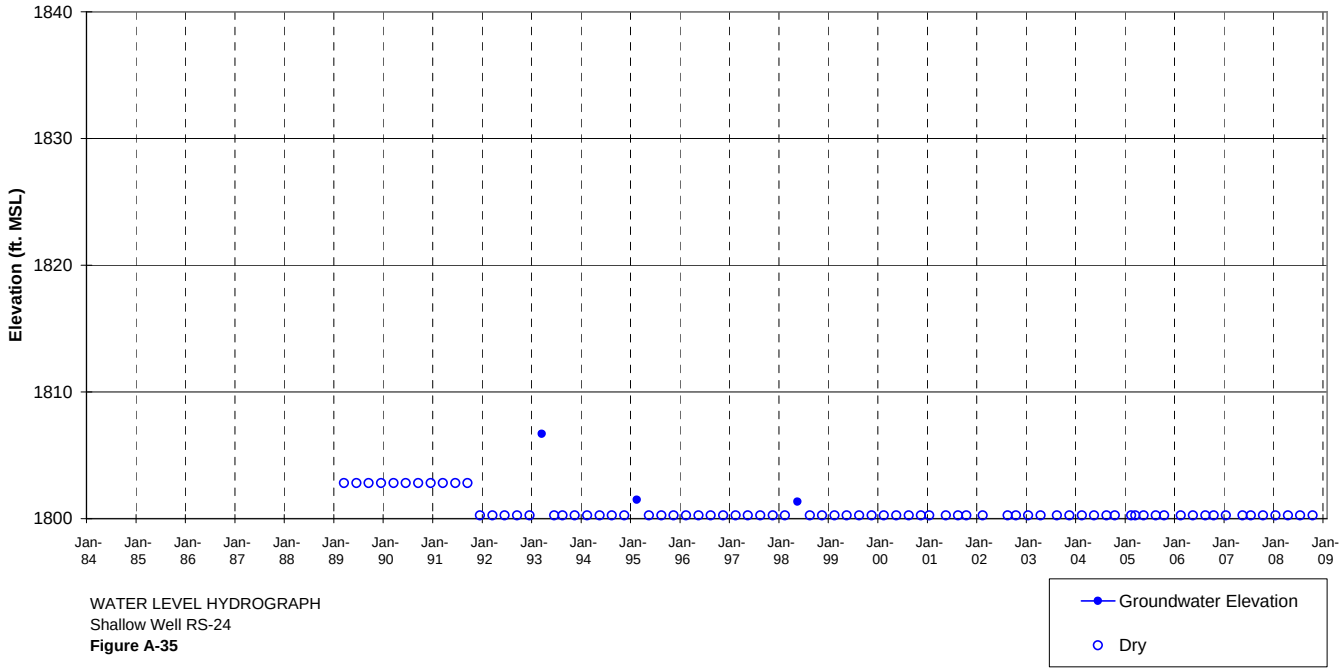


WATER LEVEL HYDROGRAPH
Shallow Well RS-22
Figure A-33

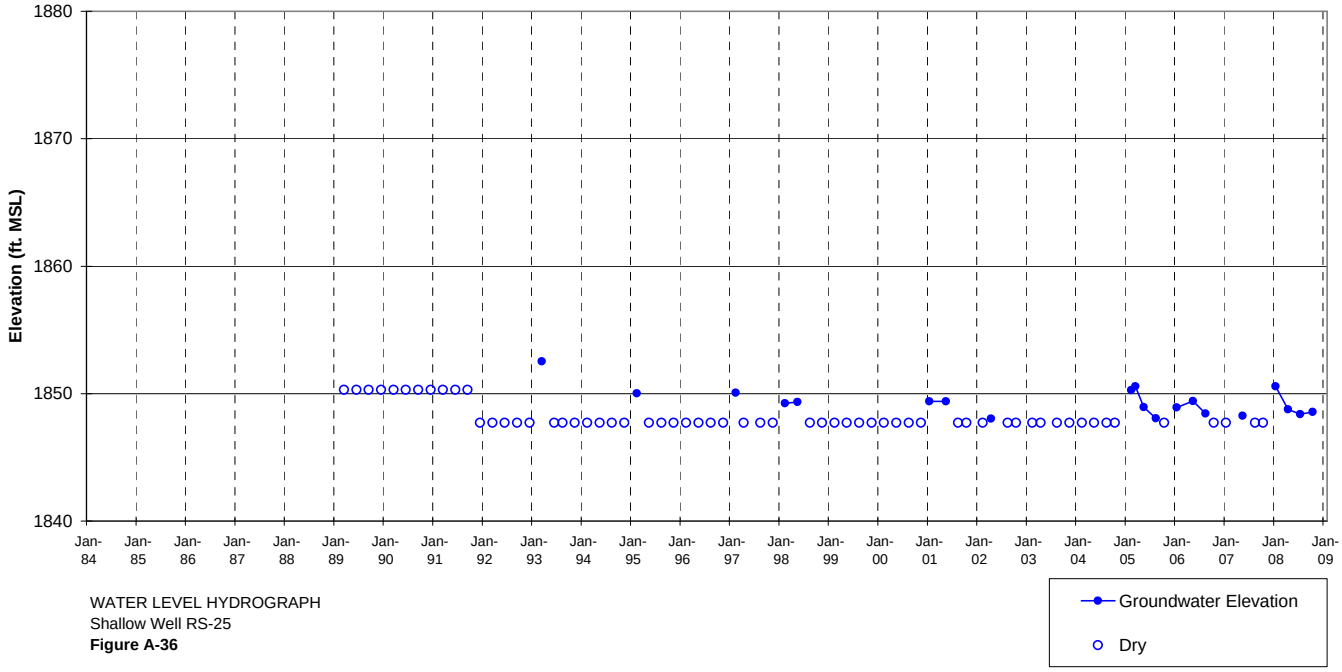
NOTE: MPE is provided when the hydrostatic water elevation is unavailable and flowing water is observed. MP Elevation = 1770.16 ft. msl



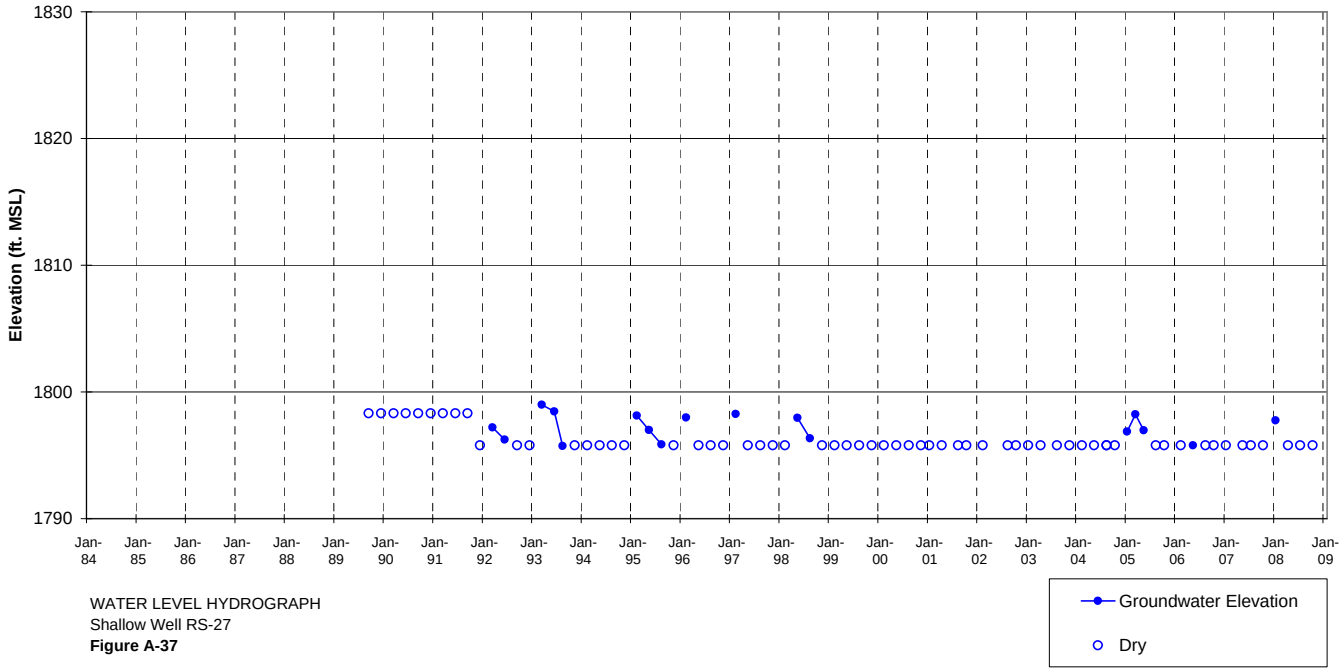
WATER LEVEL HYDROGRAPH
Shallow Well RS-23
Figure A-34



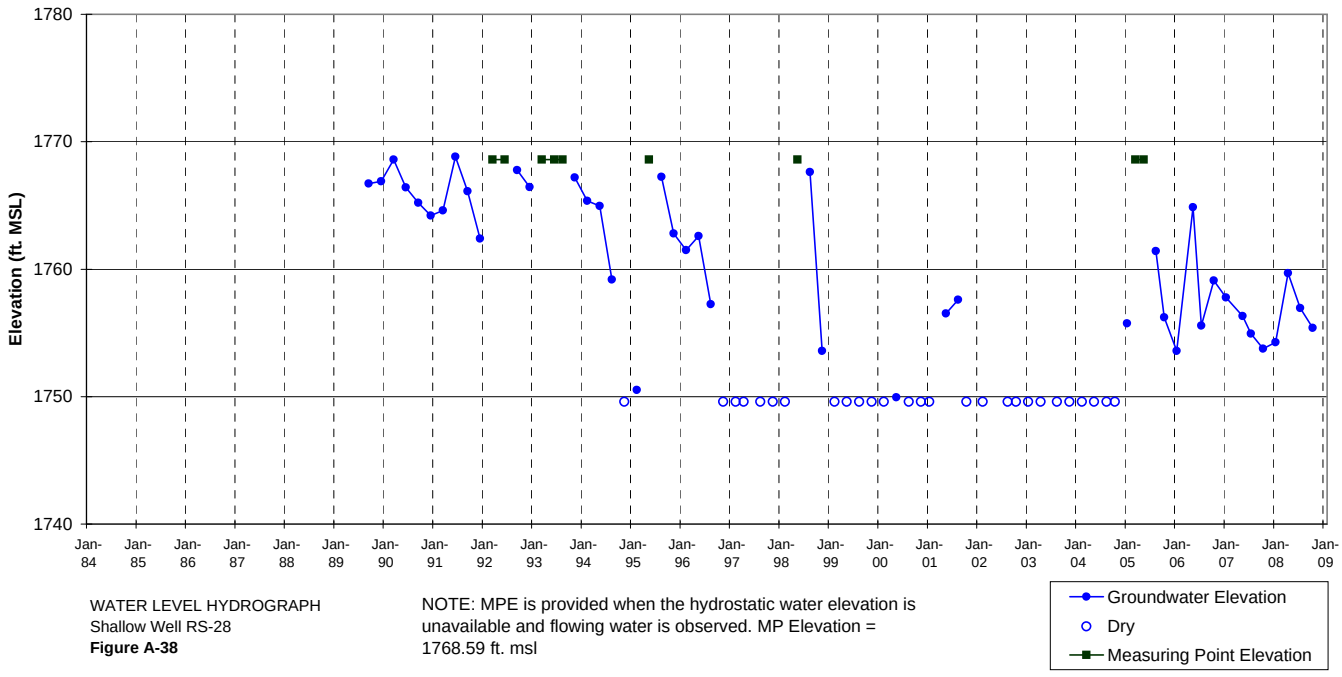
WATER LEVEL HYDROGRAPH
Shallow Well RS-24
Figure A-35



WATER LEVEL HYDROGRAPH
Shallow Well RS-25
Figure A-36

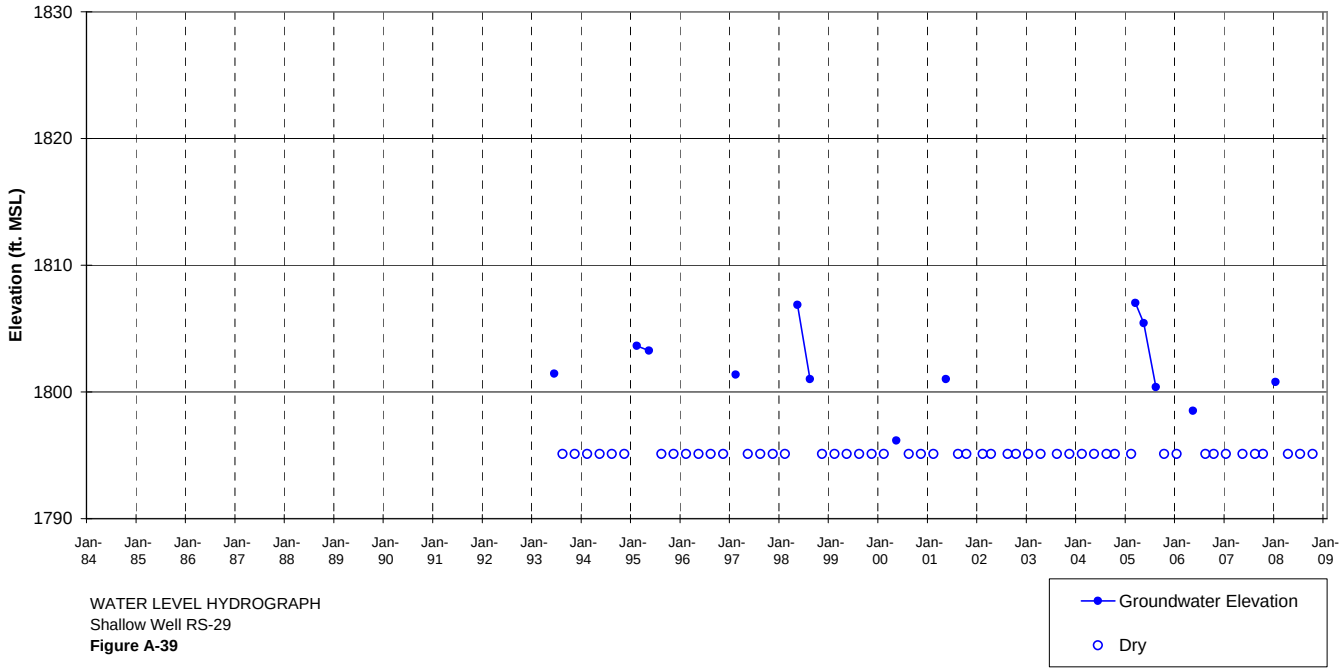


WATER LEVEL HYDROGRAPH
Shallow Well RS-27
Figure A-37

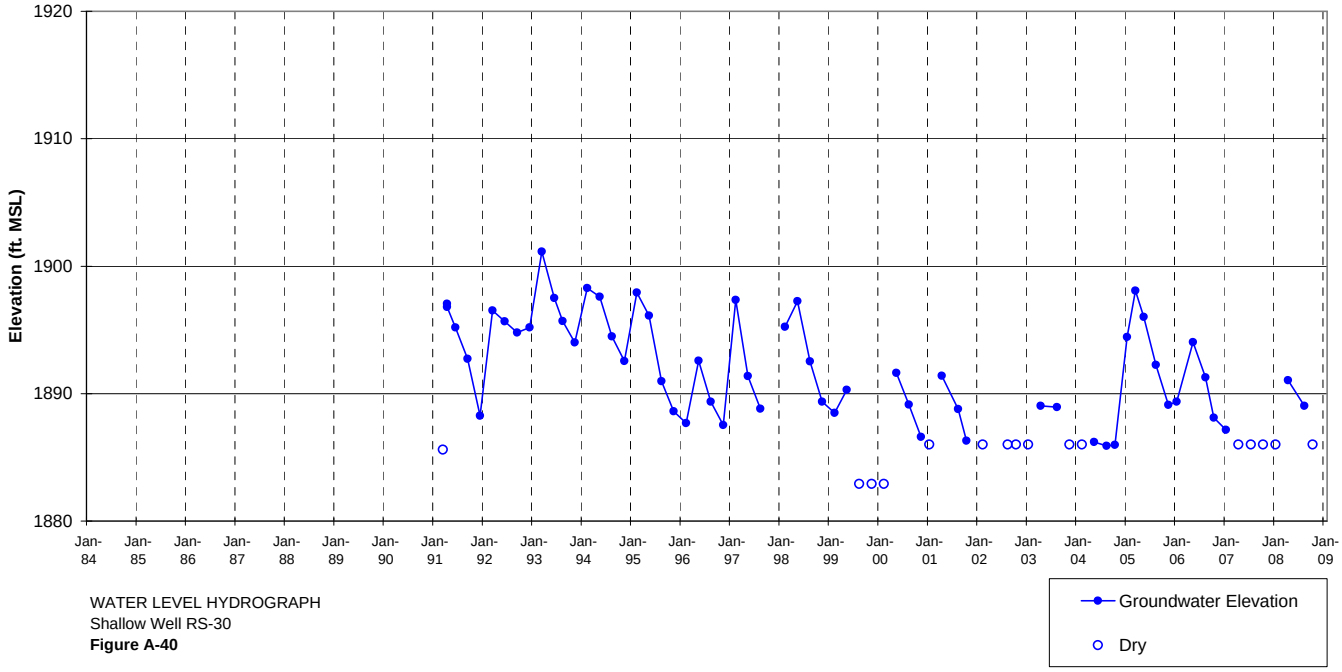


WATER LEVEL HYDROGRAPH
Shallow Well RS-28
Figure A-38

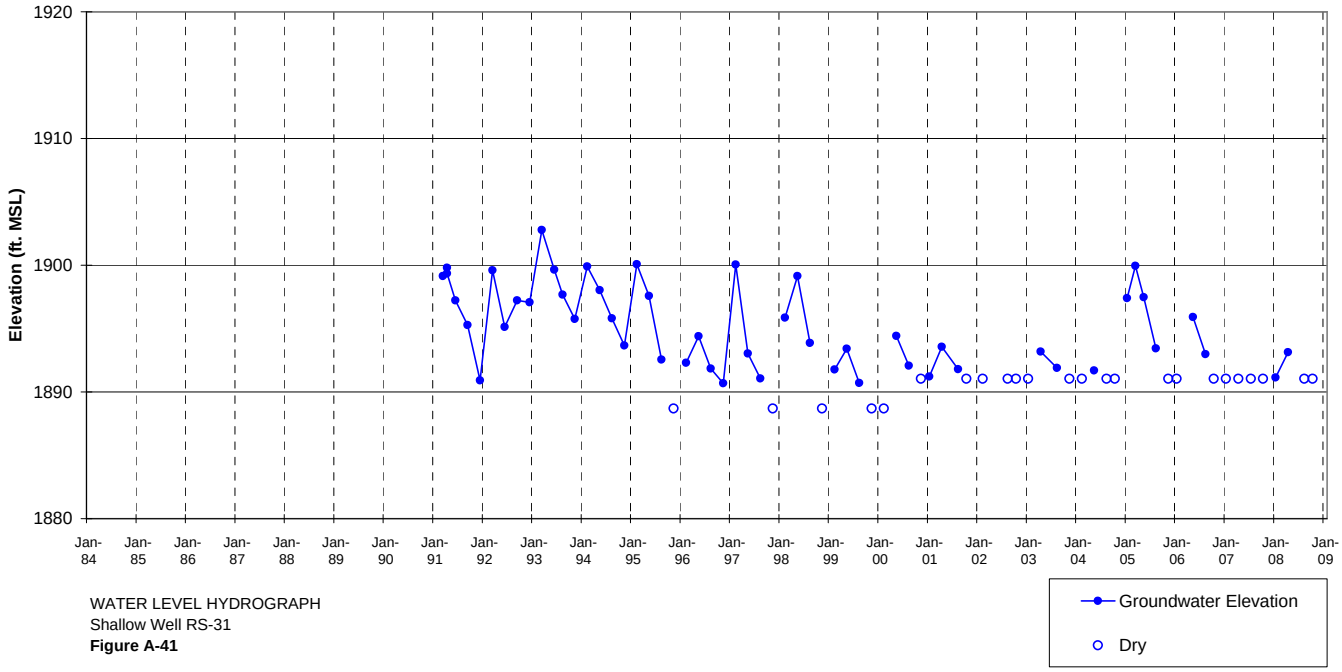
NOTE: MPE is provided when the hydrostatic water elevation is unavailable and flowing water is observed. MP Elevation = 1768.59 ft. msl



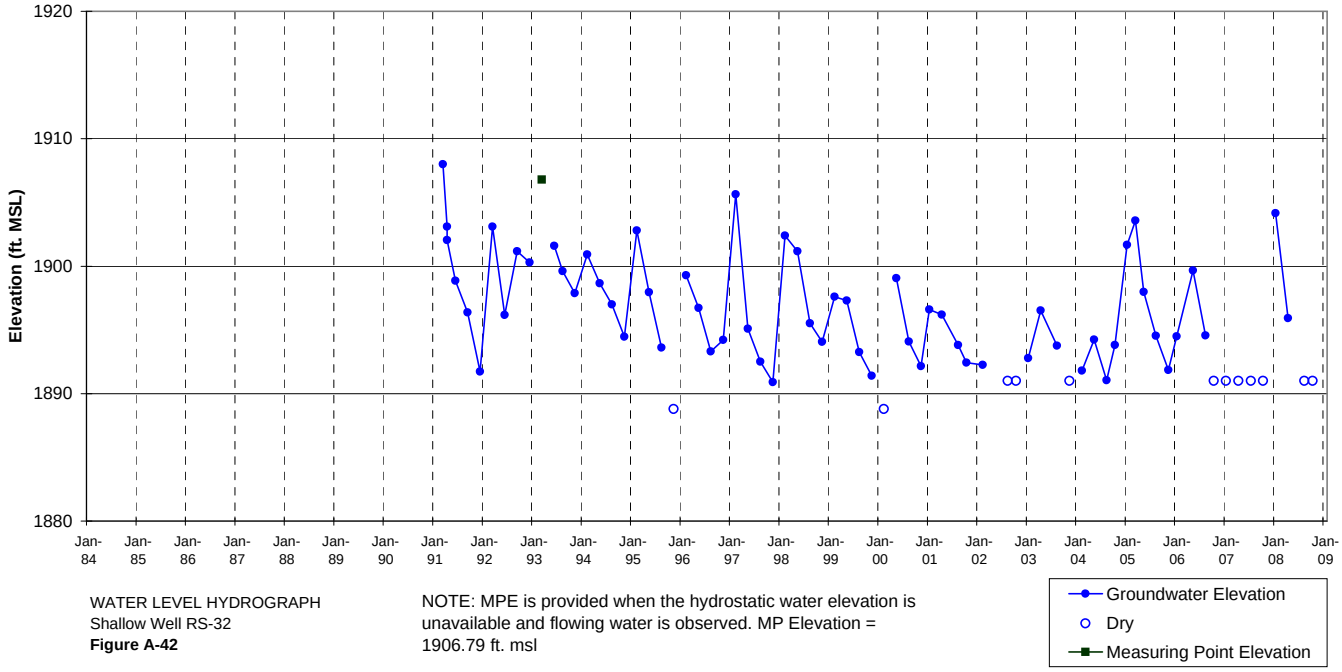
WATER LEVEL HYDROGRAPH
Shallow Well RS-29
Figure A-39



WATER LEVEL HYDROGRAPH
Shallow Well RS-30
Figure A-40

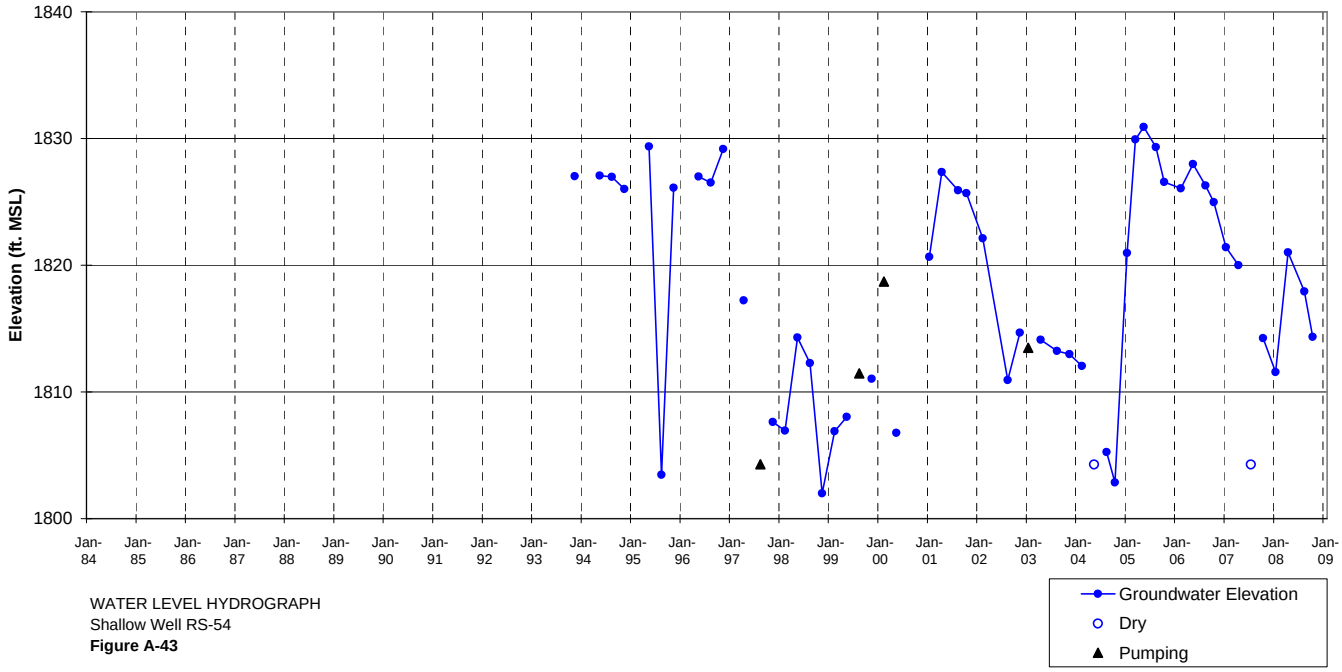


WATER LEVEL HYDROGRAPH
Shallow Well RS-31
Figure A-41

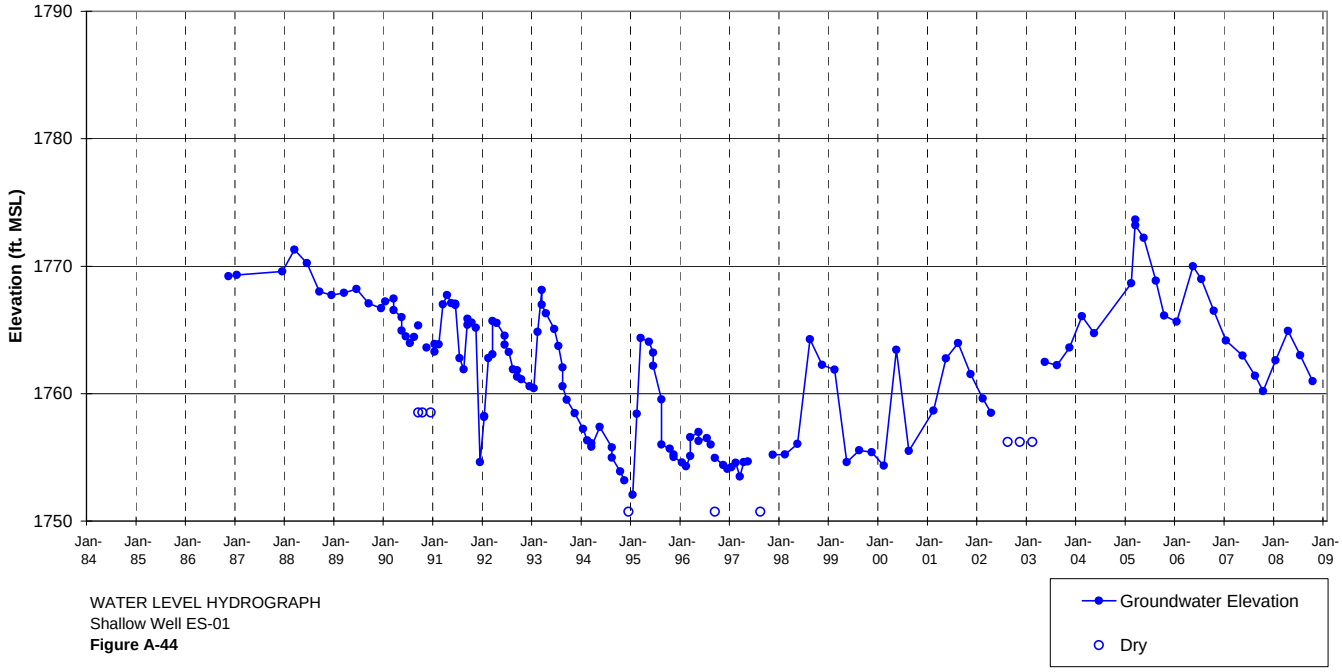


WATER LEVEL HYDROGRAPH
Shallow Well RS-32
Figure A-42

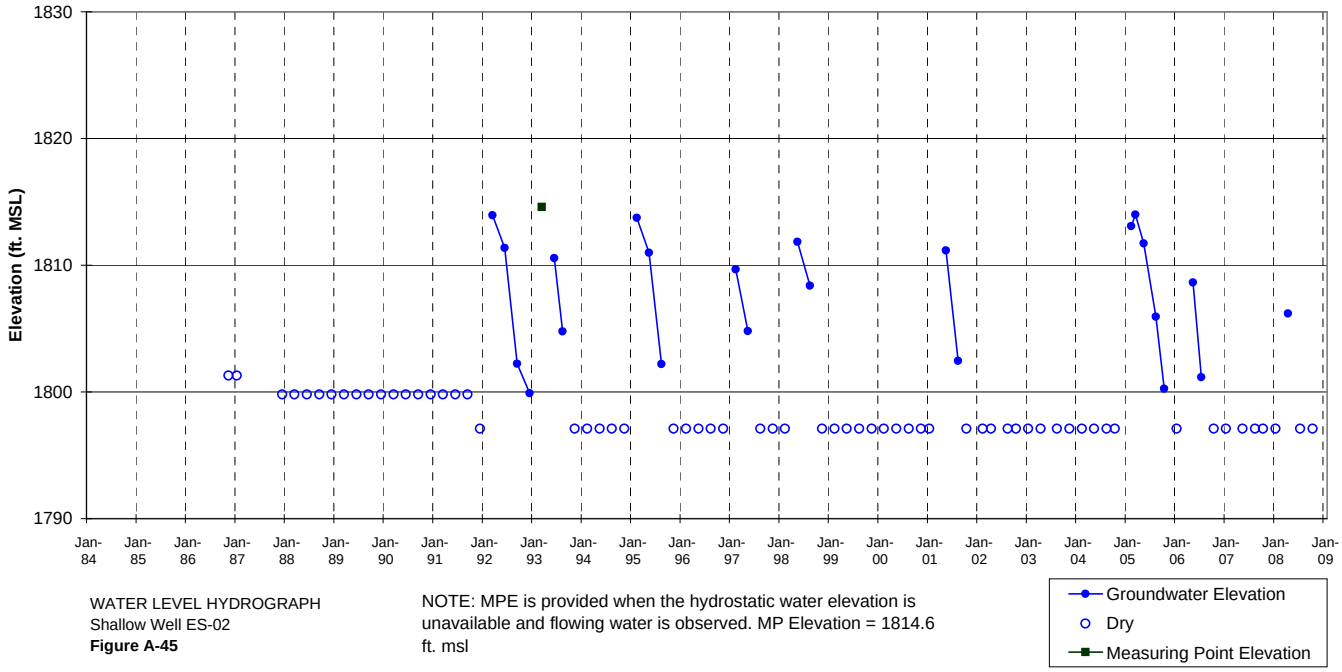
NOTE: MPE is provided when the hydrostatic water elevation is unavailable and flowing water is observed. MP Elevation = 1906.79 ft. msl



WATER LEVEL HYDROGRAPH
Shallow Well RS-54
Figure A-43

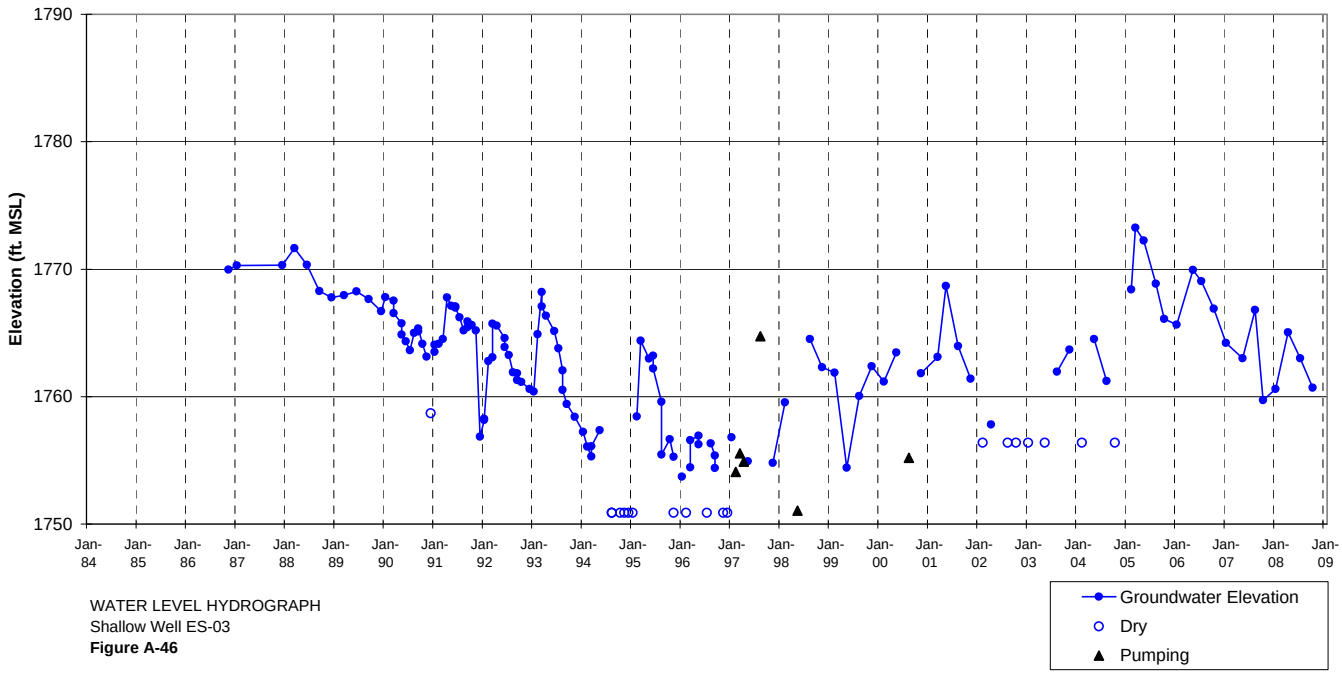


WATER LEVEL HYDROGRAPH
Shallow Well ES-01
Figure A-44

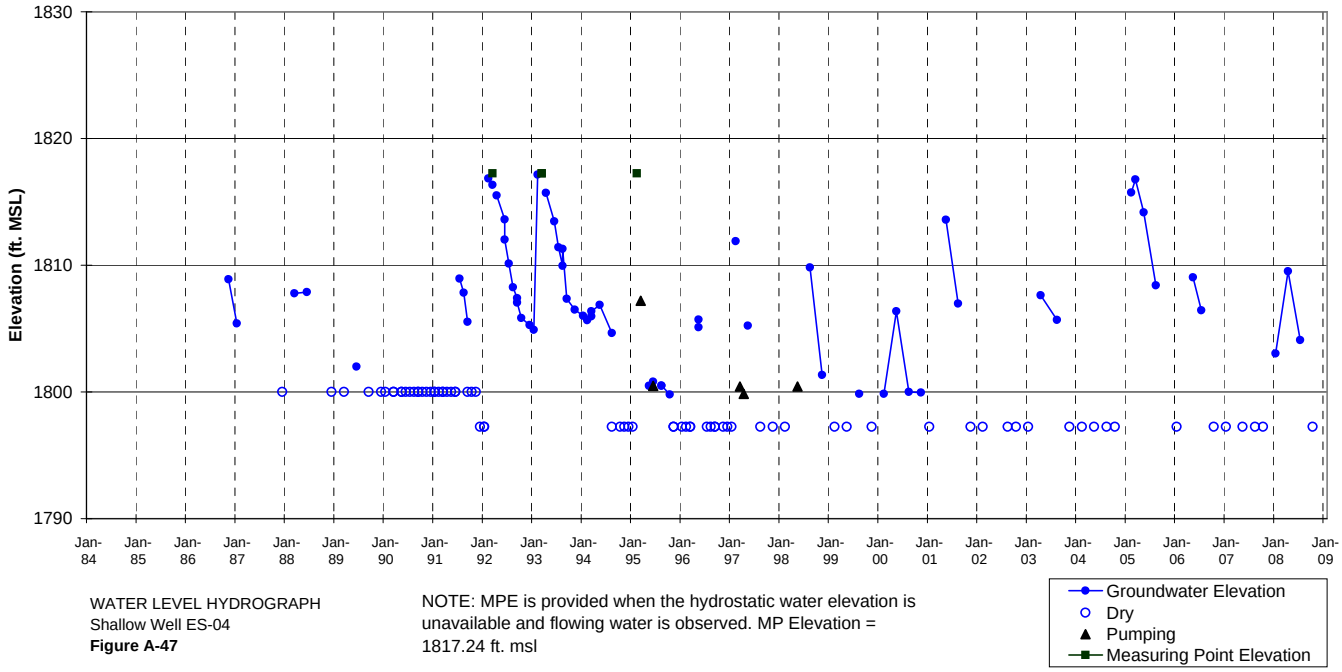


WATER LEVEL HYDROGRAPH
Shallow Well ES-02
Figure A-45

NOTE: MPE is provided when the hydrostatic water elevation is unavailable and flowing water is observed. MP Elevation = 1814.6 ft. msl

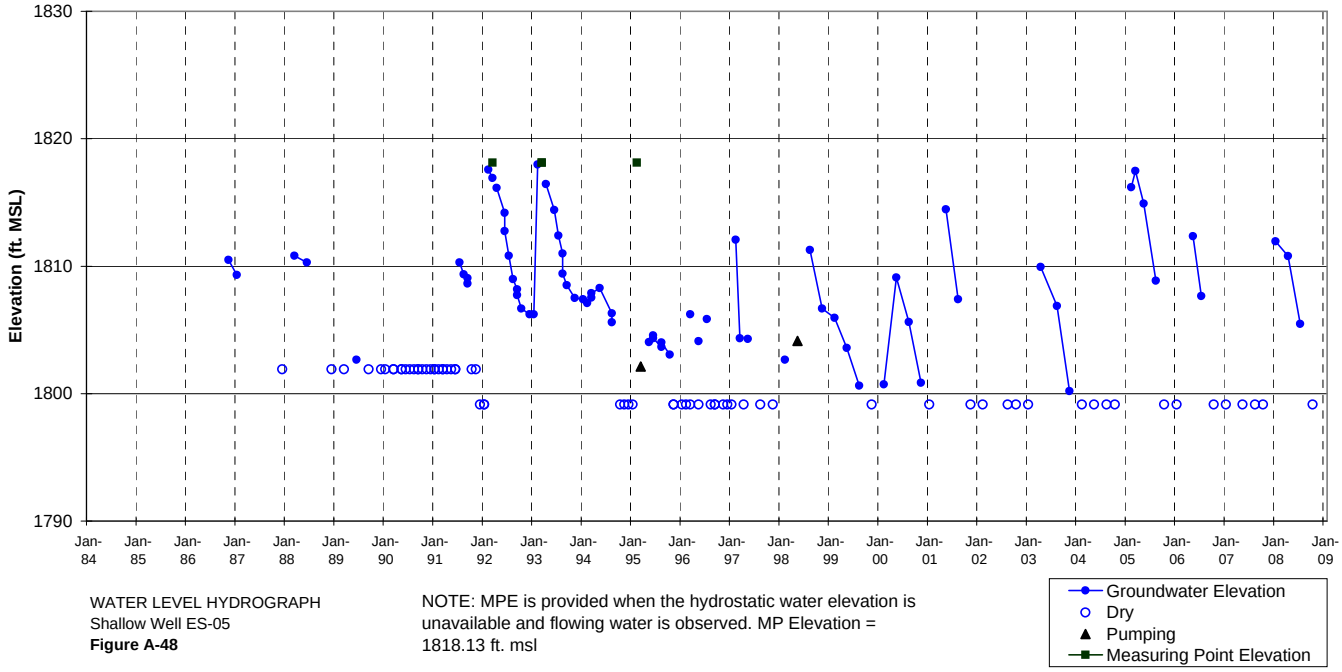


WATER LEVEL HYDROGRAPH
Shallow Well ES-03
Figure A-46



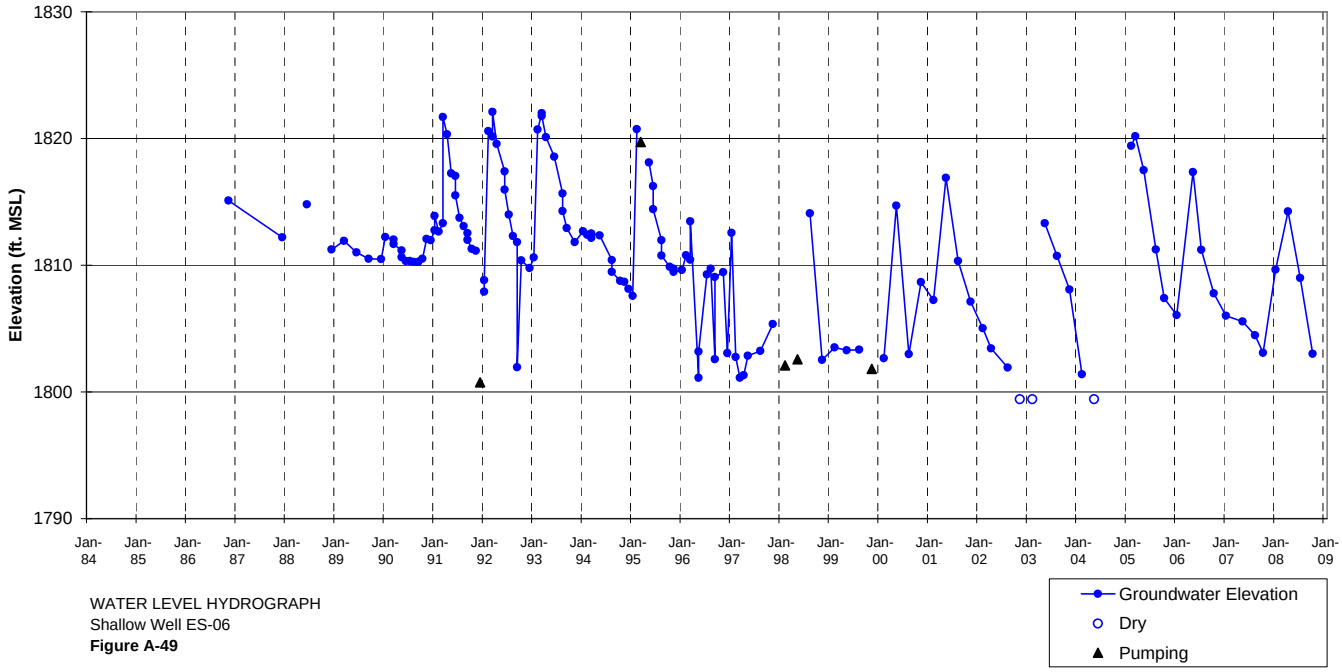
WATER LEVEL HYDROGRAPH
Shallow Well ES-04
Figure A-47

NOTE: MPE is provided when the hydrostatic water elevation is unavailable and flowing water is observed. MP Elevation = 1817.24 ft. msl

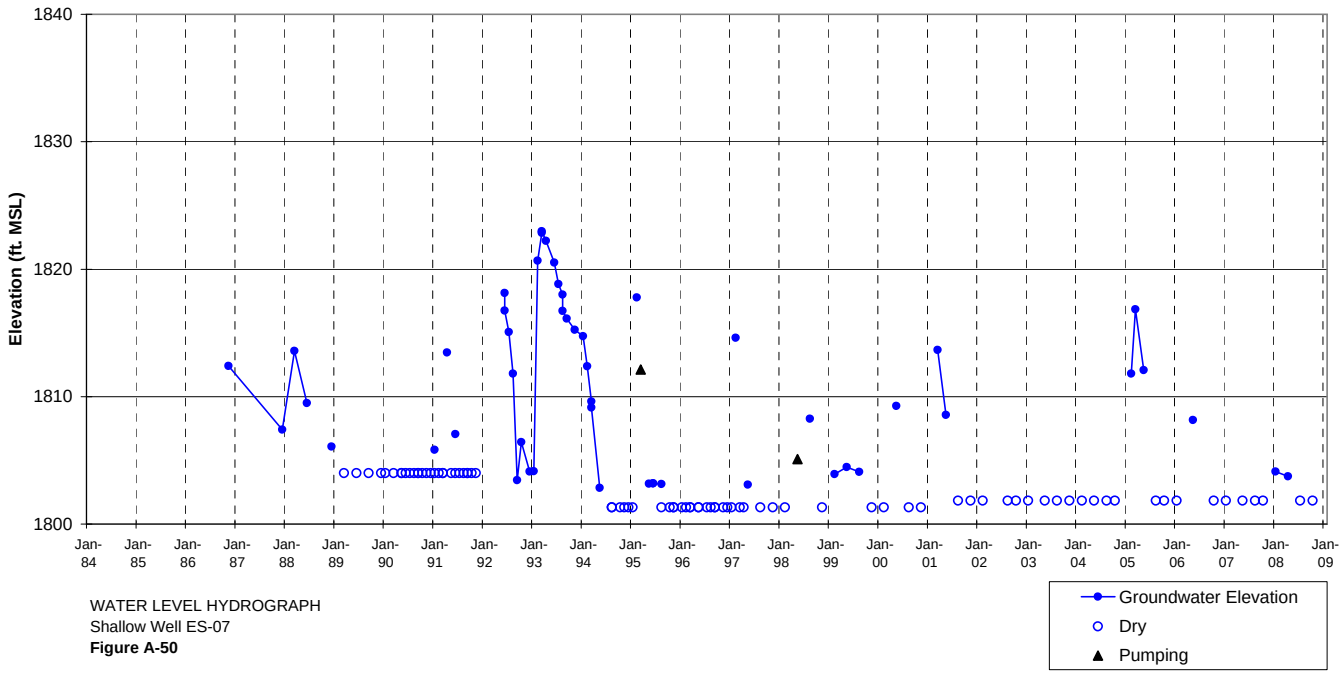


WATER LEVEL HYDROGRAPH
Shallow Well ES-05
Figure A-48

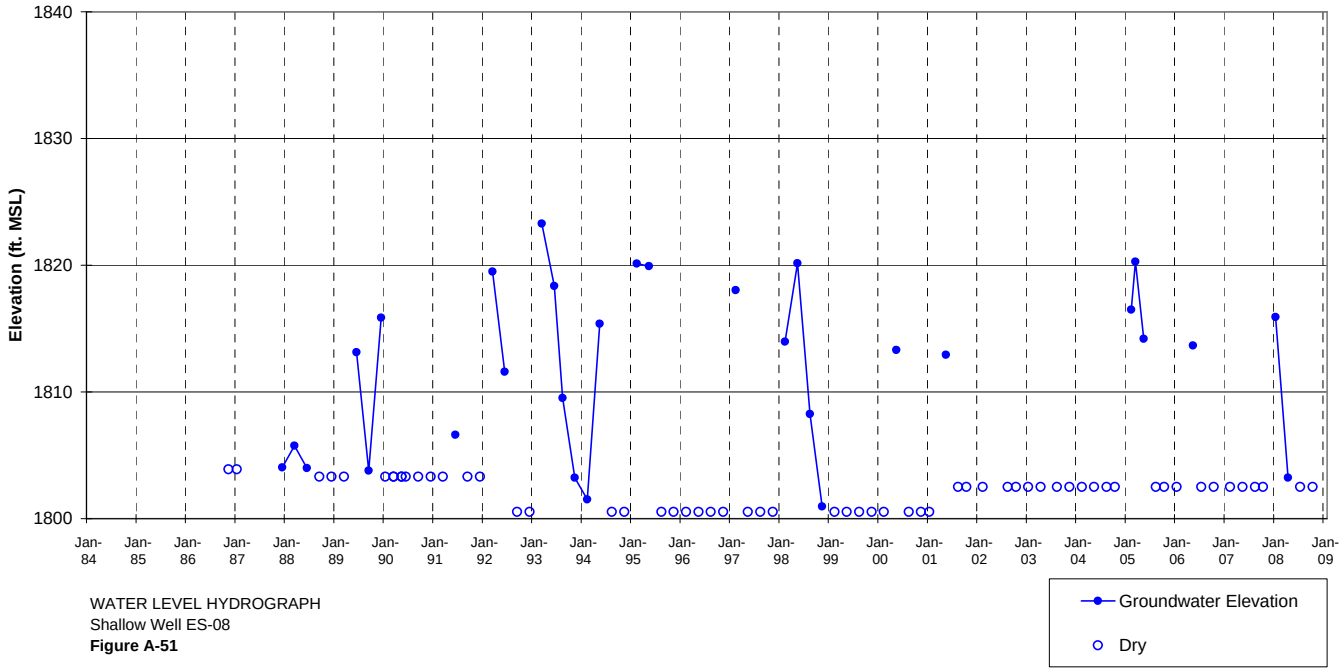
NOTE: MPE is provided when the hydrostatic water elevation is unavailable and flowing water is observed. MP Elevation = 1818.13 ft. msl



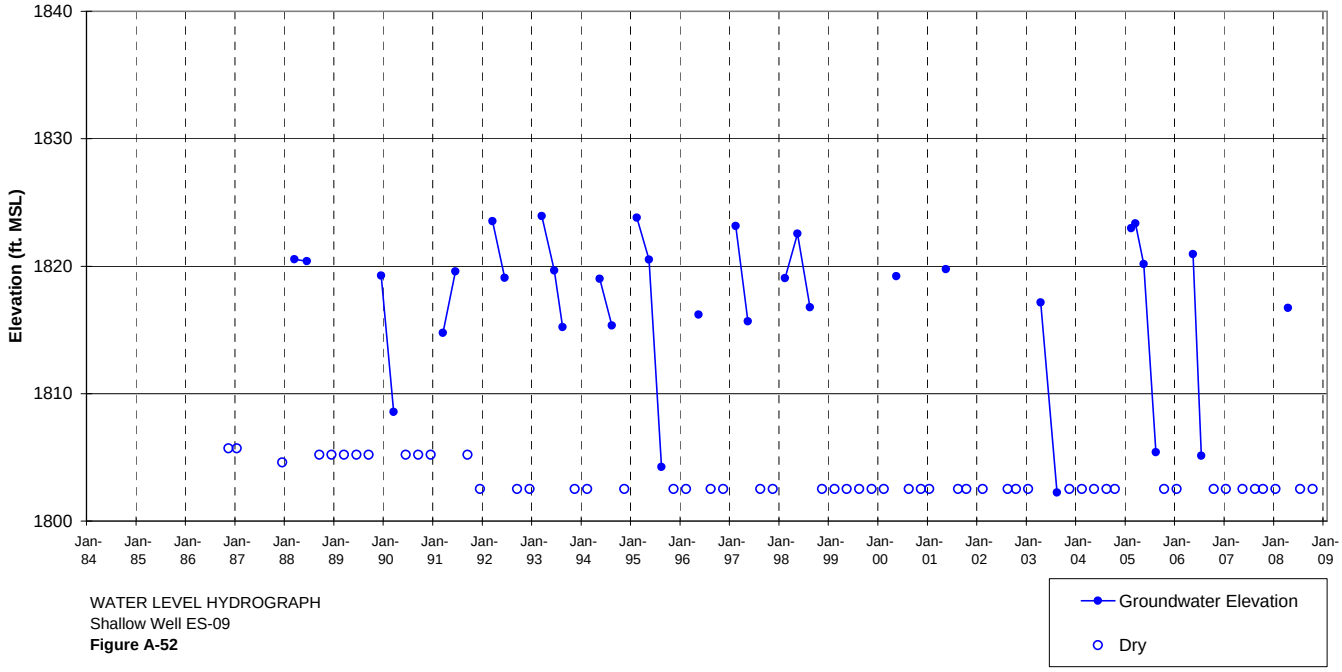
WATER LEVEL HYDROGRAPH
Shallow Well ES-06
Figure A-49



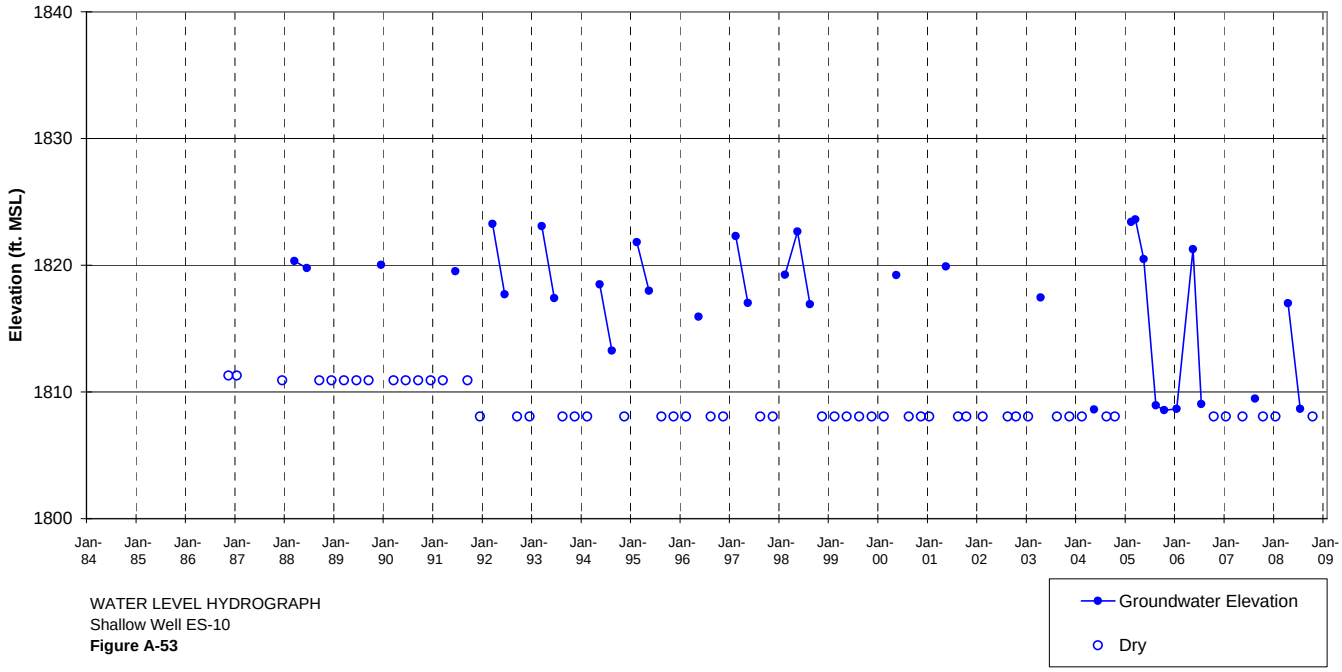
WATER LEVEL HYDROGRAPH
Shallow Well ES-07
Figure A-50



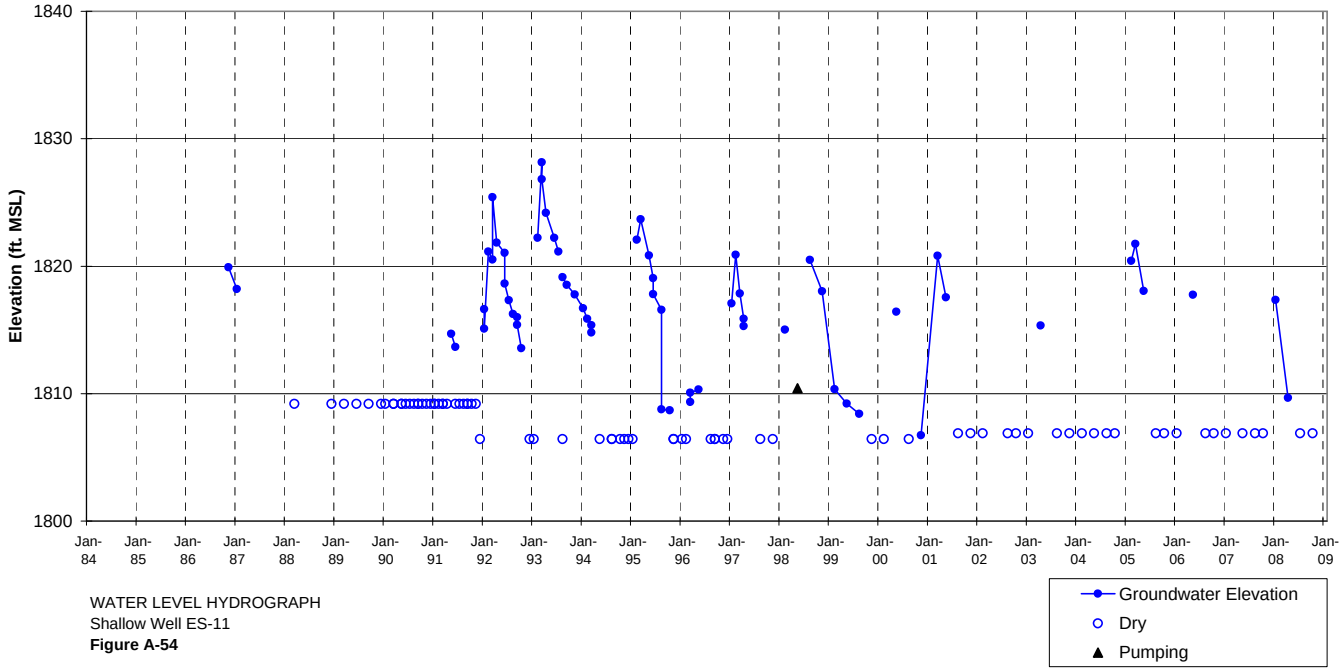
WATER LEVEL HYDROGRAPH
Shallow Well ES-08
Figure A-51



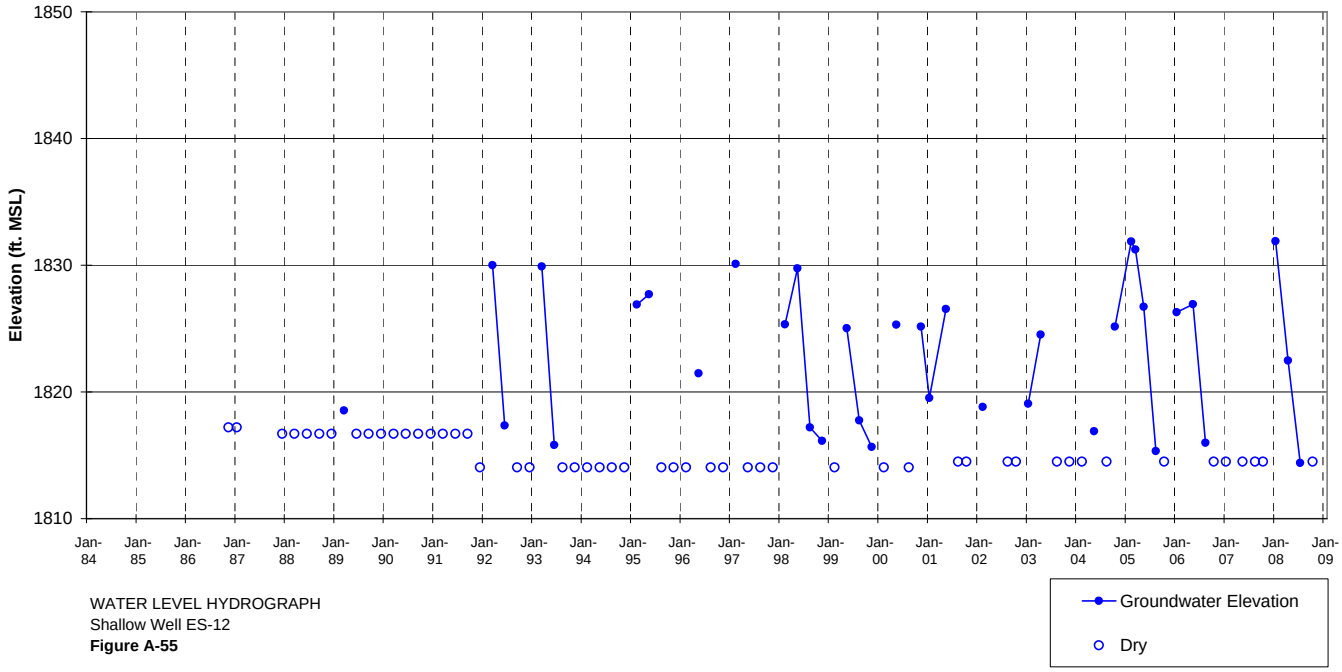
WATER LEVEL HYDROGRAPH
Shallow Well ES-09
Figure A-52



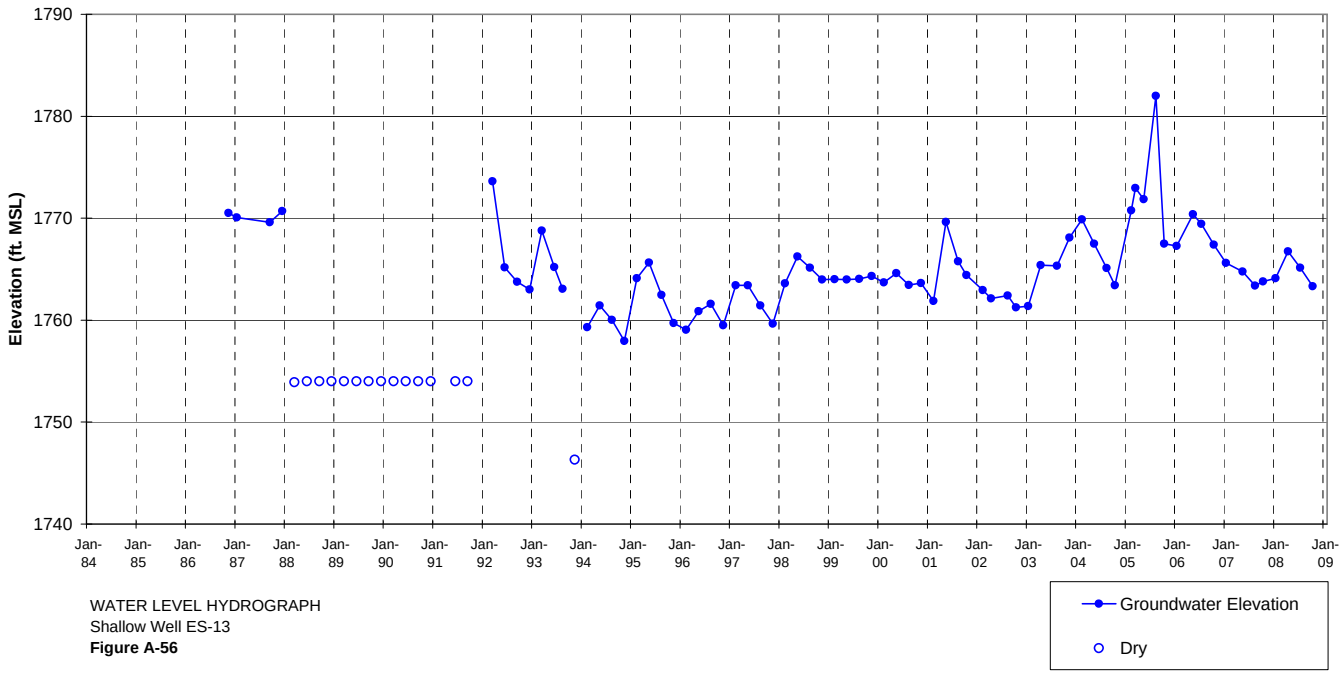
WATER LEVEL HYDROGRAPH
Shallow Well ES-10
Figure A-53



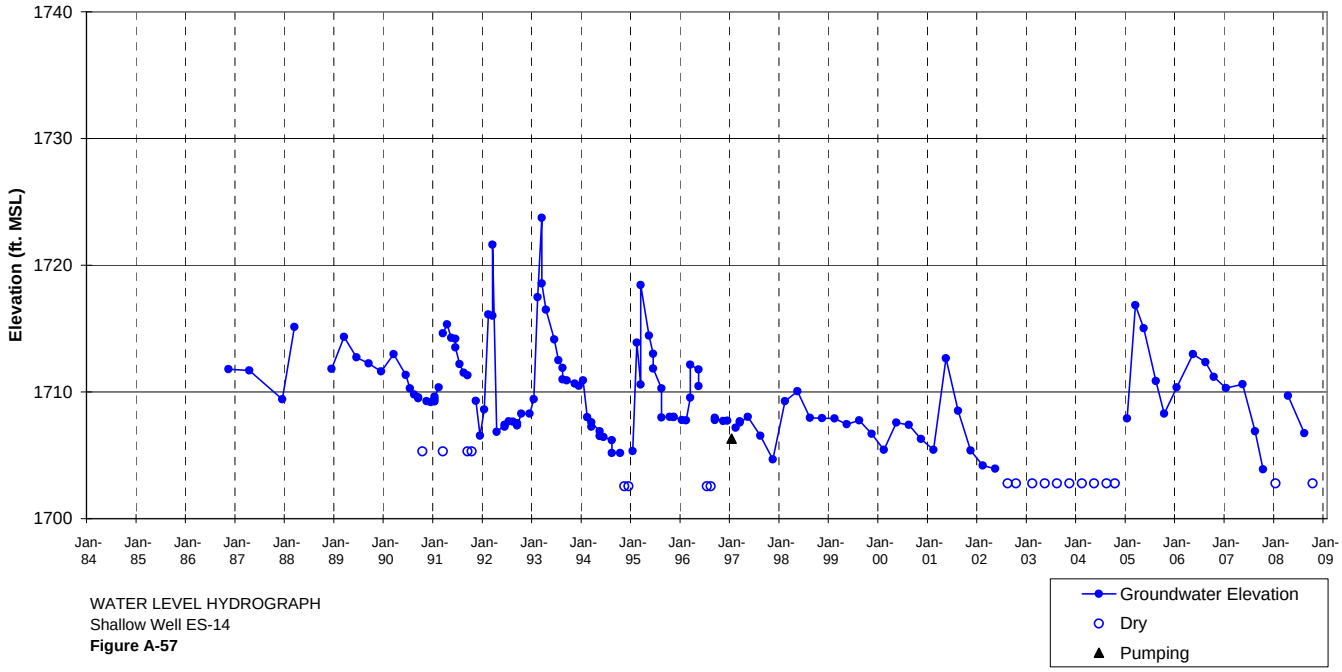
WATER LEVEL HYDROGRAPH
Shallow Well ES-11
Figure A-54



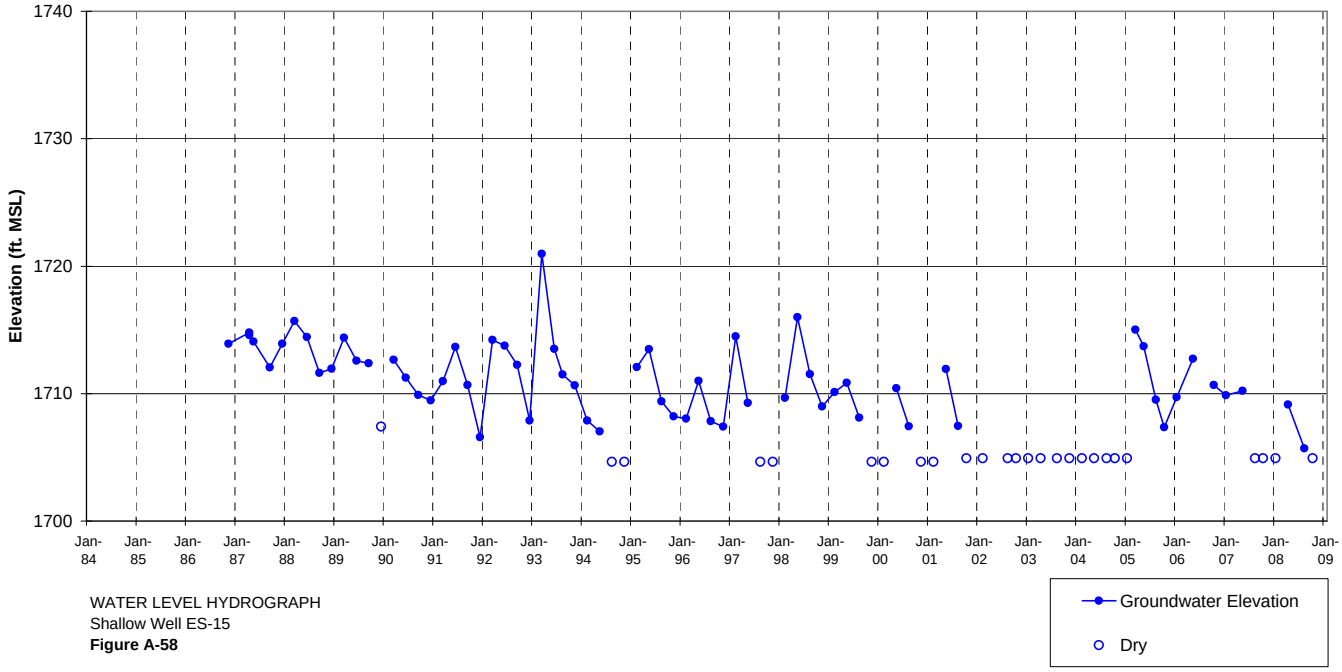
WATER LEVEL HYDROGRAPH
Shallow Well ES-12
Figure A-55



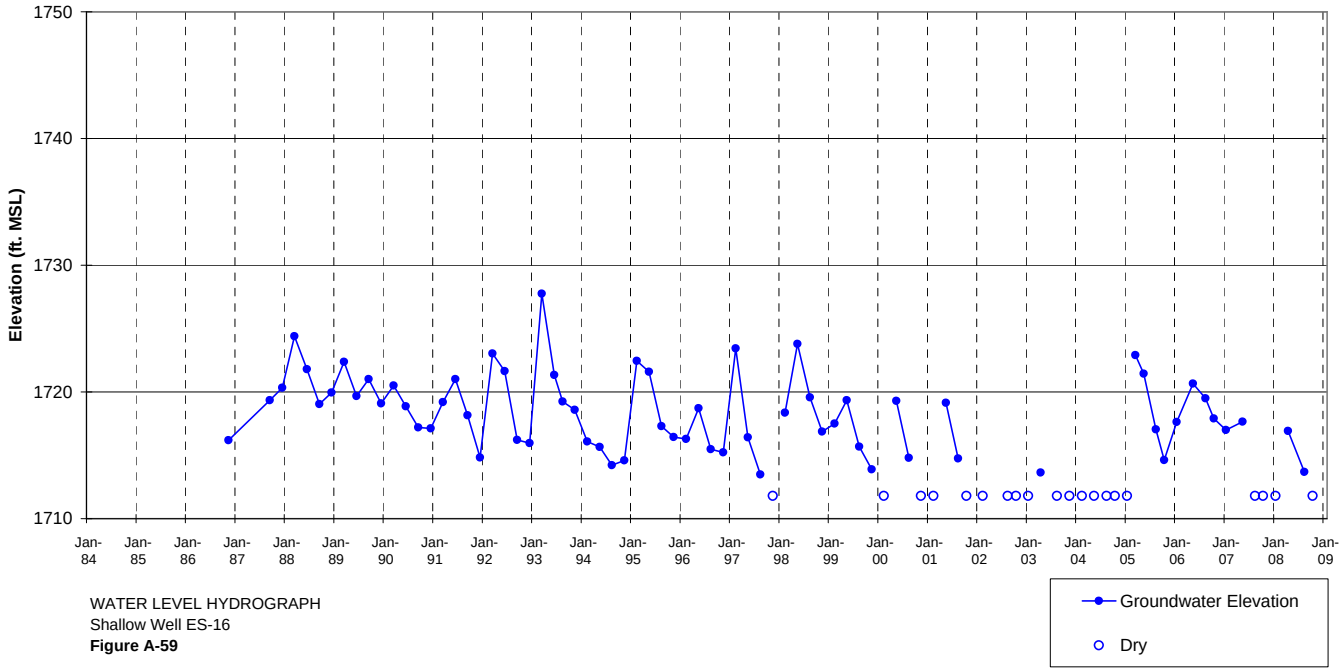
WATER LEVEL HYDROGRAPH
Shallow Well ES-13
Figure A-56



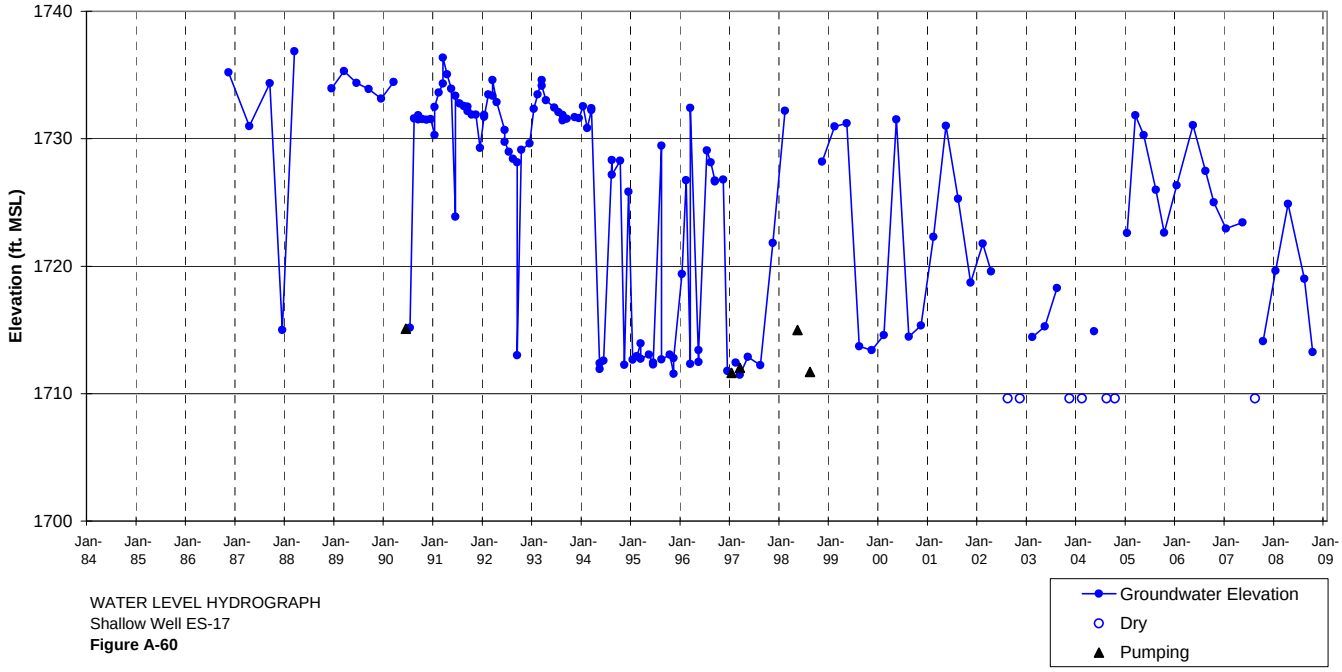
WATER LEVEL HYDROGRAPH
Shallow Well ES-14
Figure A-57



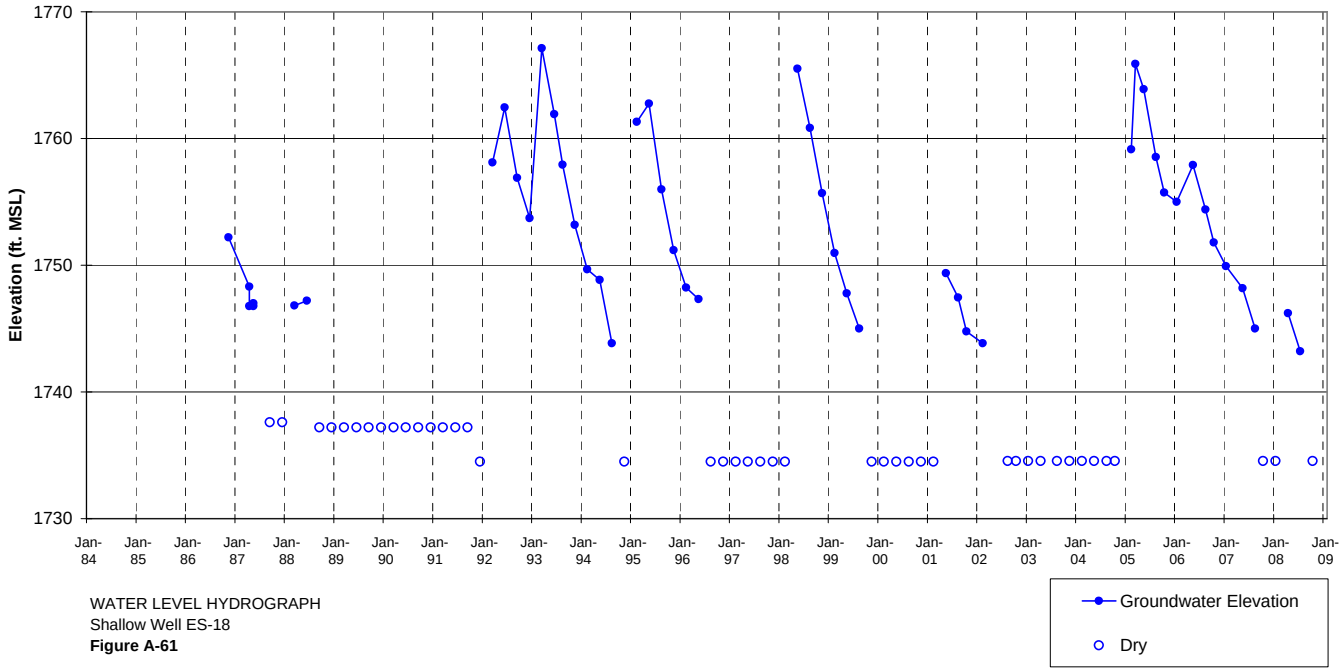
WATER LEVEL HYDROGRAPH
Shallow Well ES-15
Figure A-58



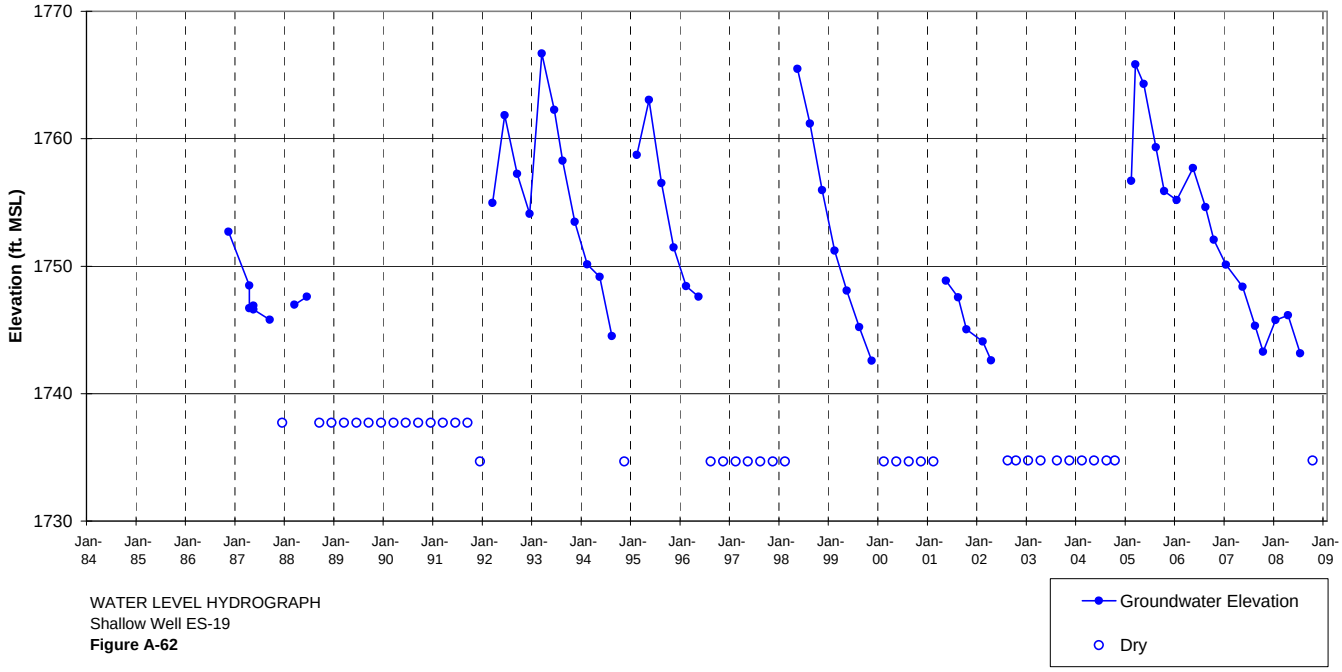
WATER LEVEL HYDROGRAPH
Shallow Well ES-16
Figure A-59



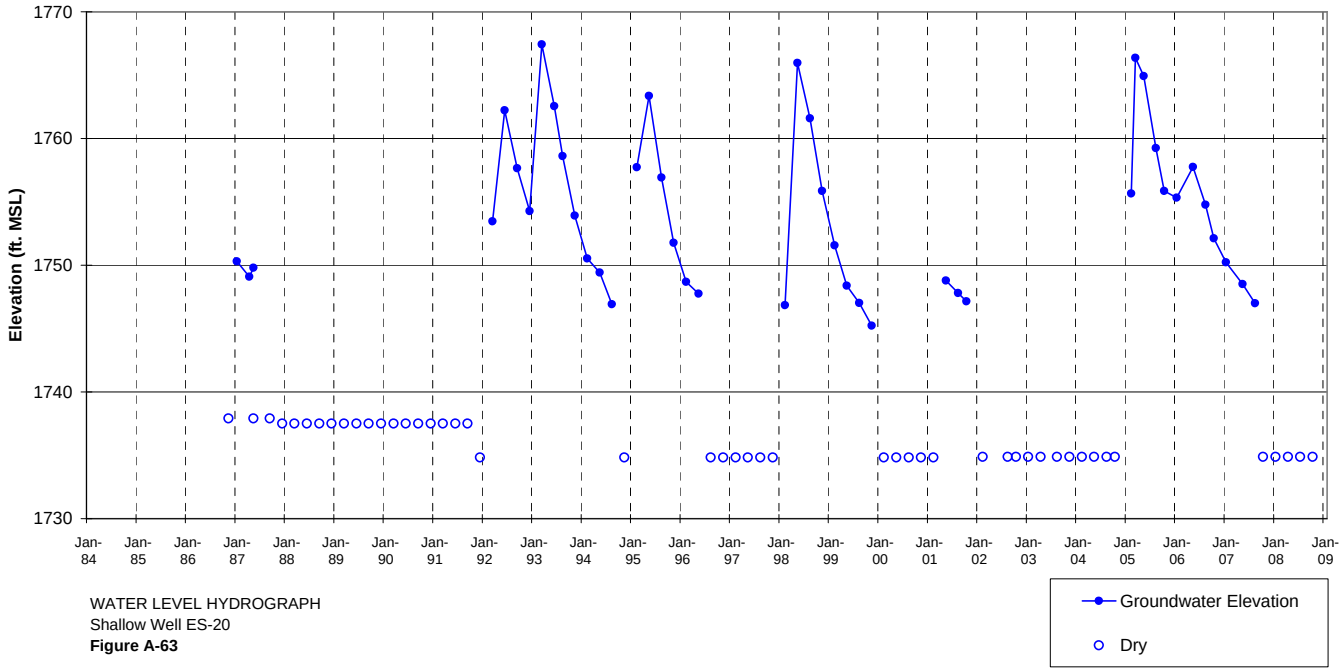
WATER LEVEL HYDROGRAPH
Shallow Well ES-17
Figure A-60



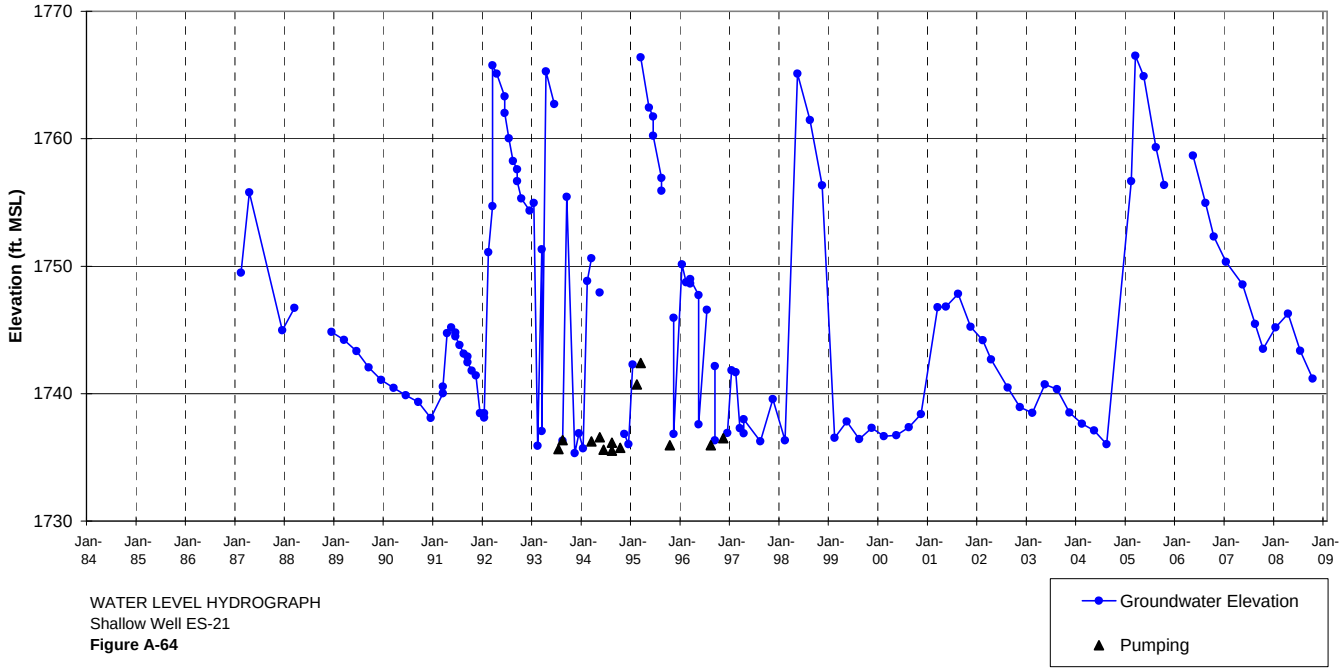
WATER LEVEL HYDROGRAPH
Shallow Well ES-18
Figure A-61



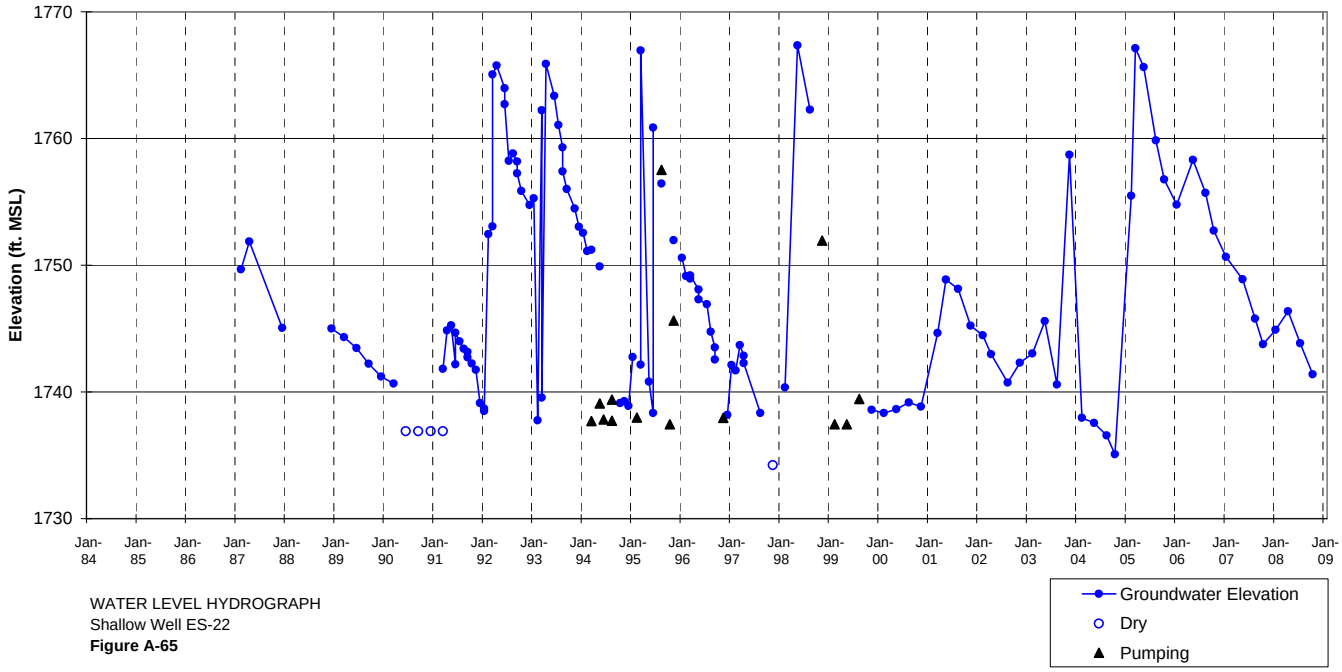
WATER LEVEL HYDROGRAPH
Shallow Well ES-19
Figure A-62



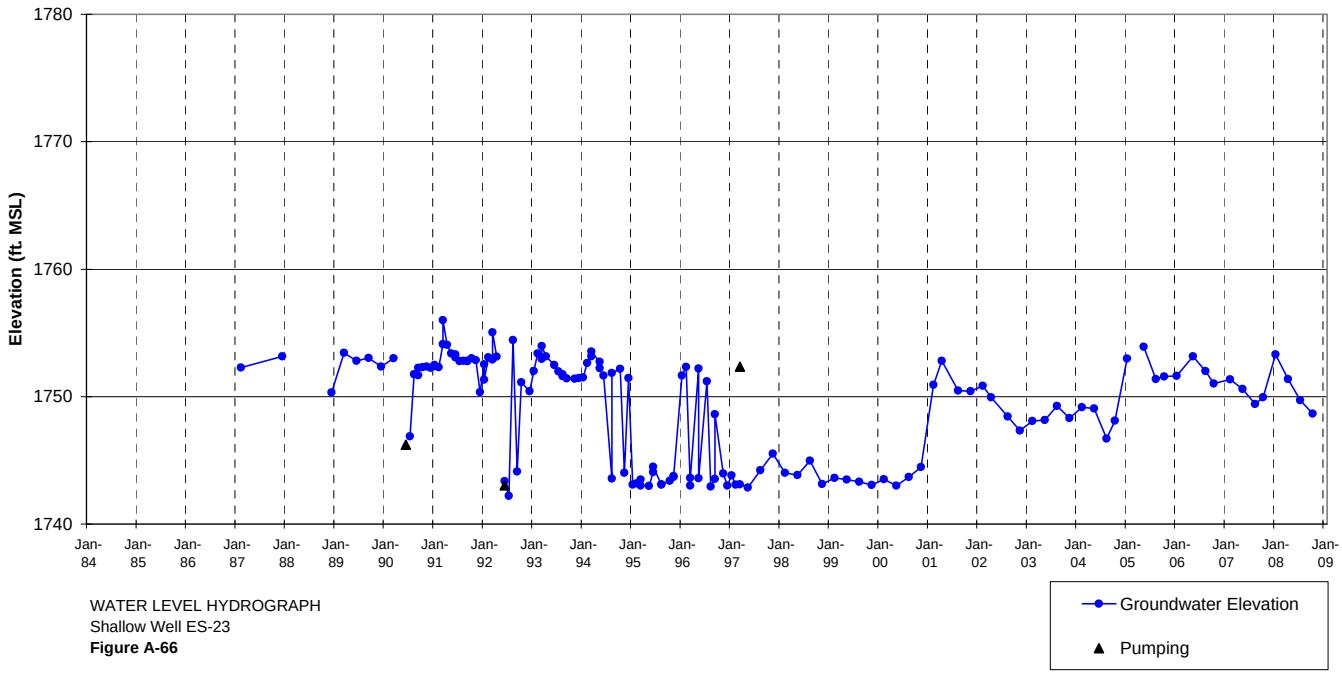
WATER LEVEL HYDROGRAPH
Shallow Well ES-20
Figure A-63



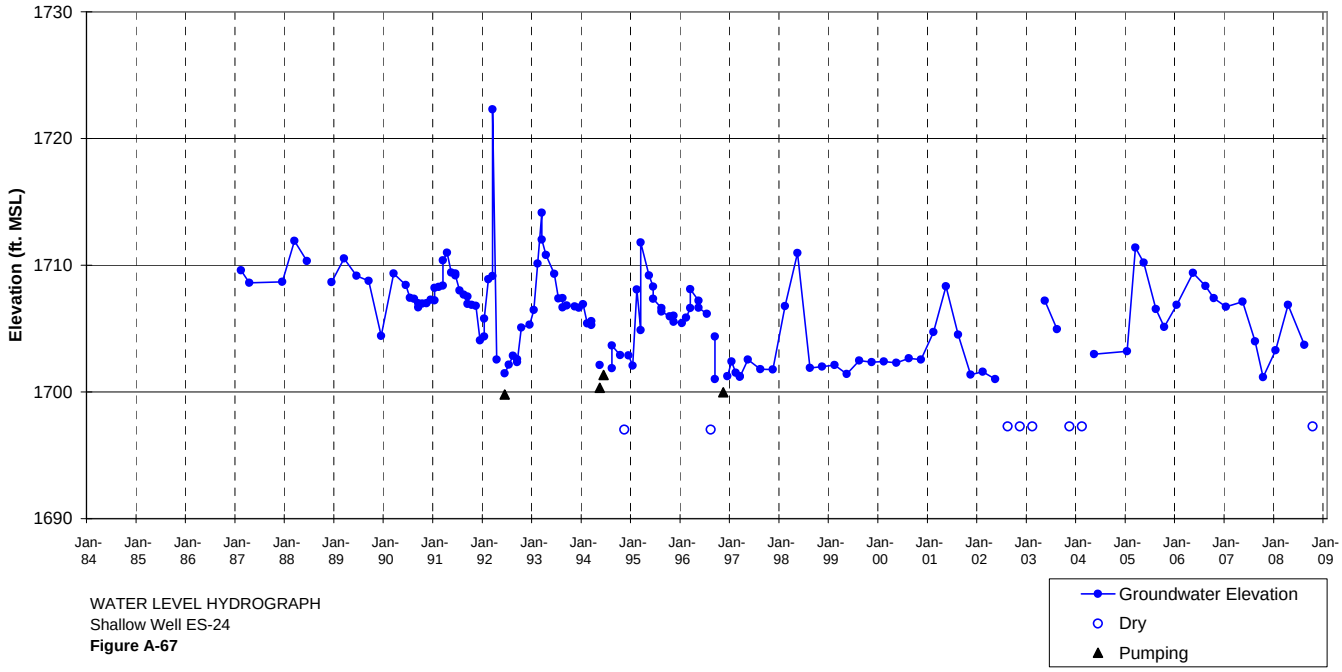
WATER LEVEL HYDROGRAPH
Shallow Well ES-21
Figure A-64



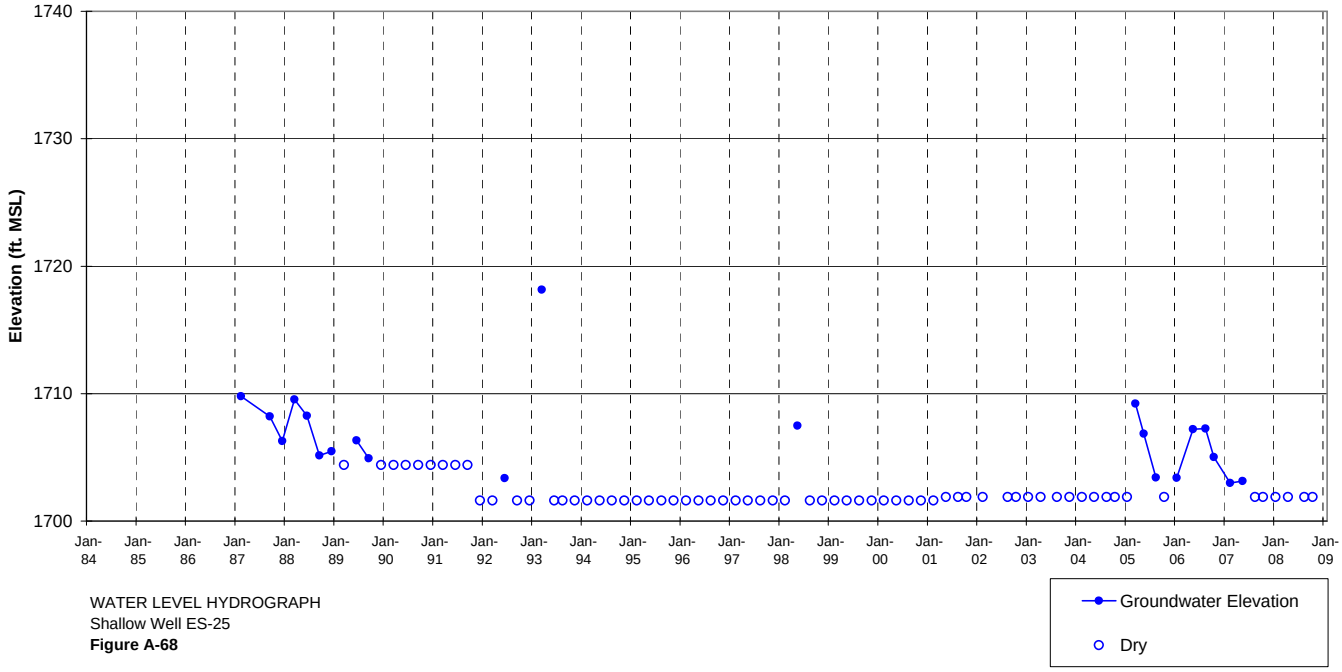
WATER LEVEL HYDROGRAPH
Shallow Well ES-22
Figure A-65



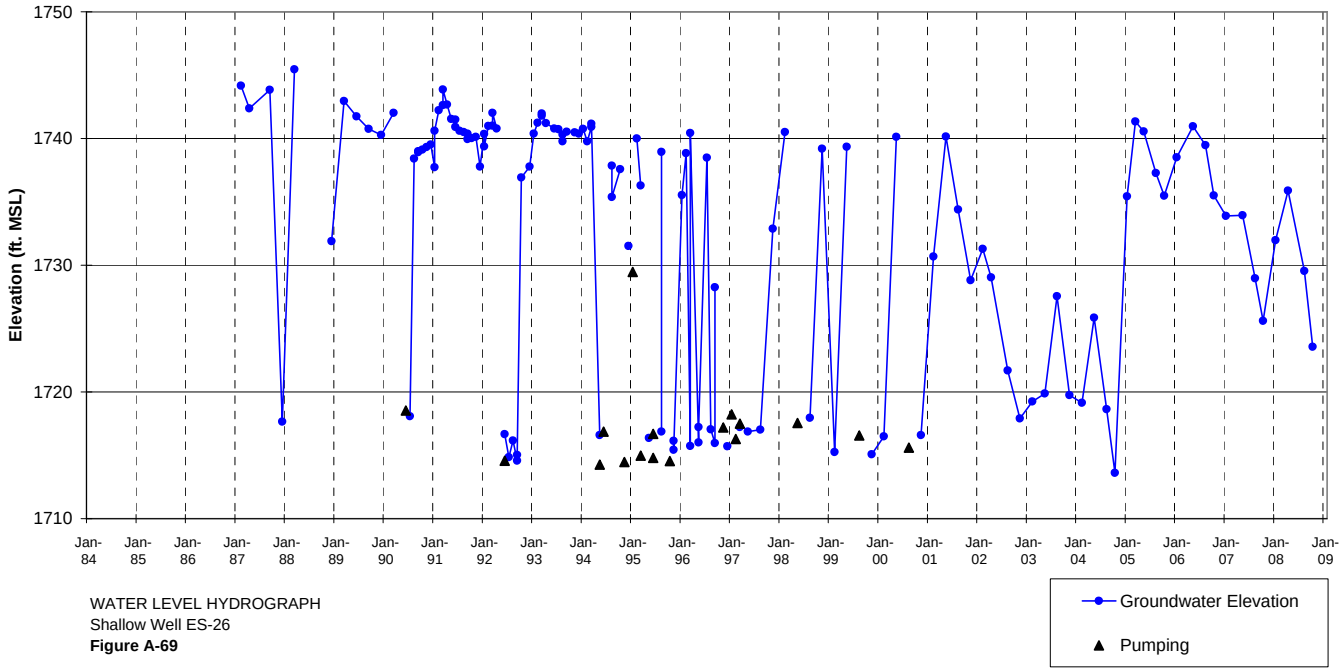
WATER LEVEL HYDROGRAPH
Shallow Well ES-23
Figure A-66



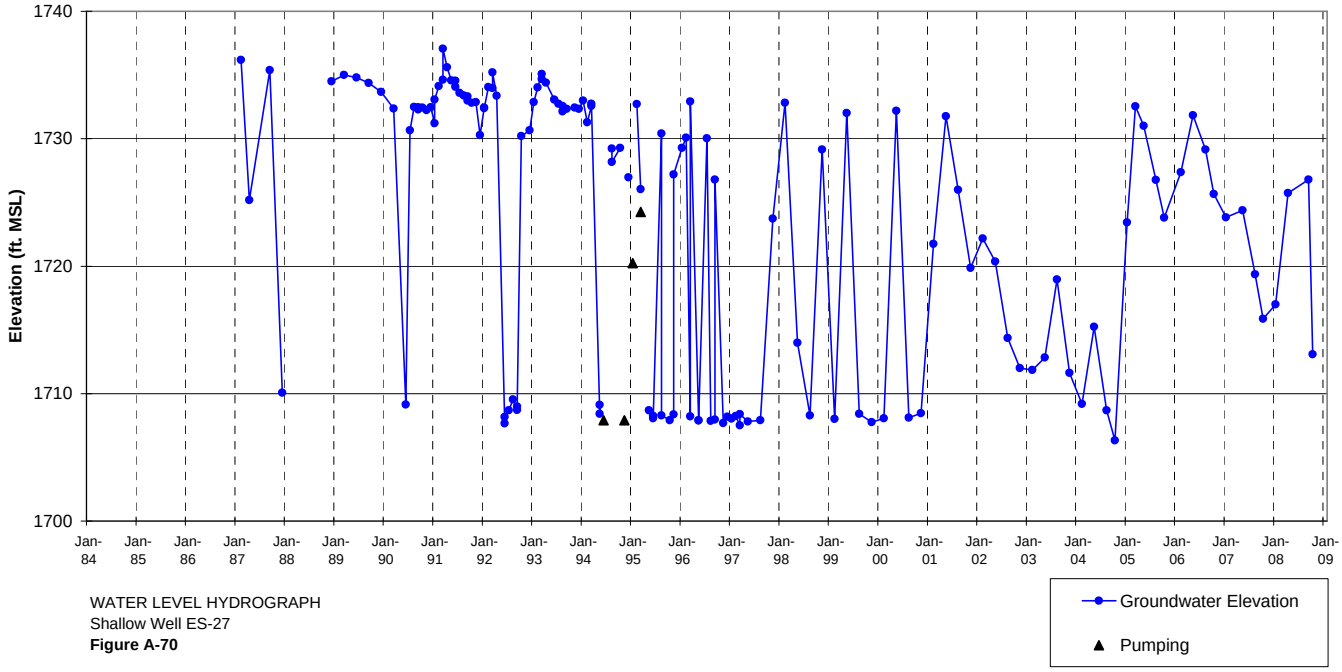
WATER LEVEL HYDROGRAPH
Shallow Well ES-24
Figure A-67



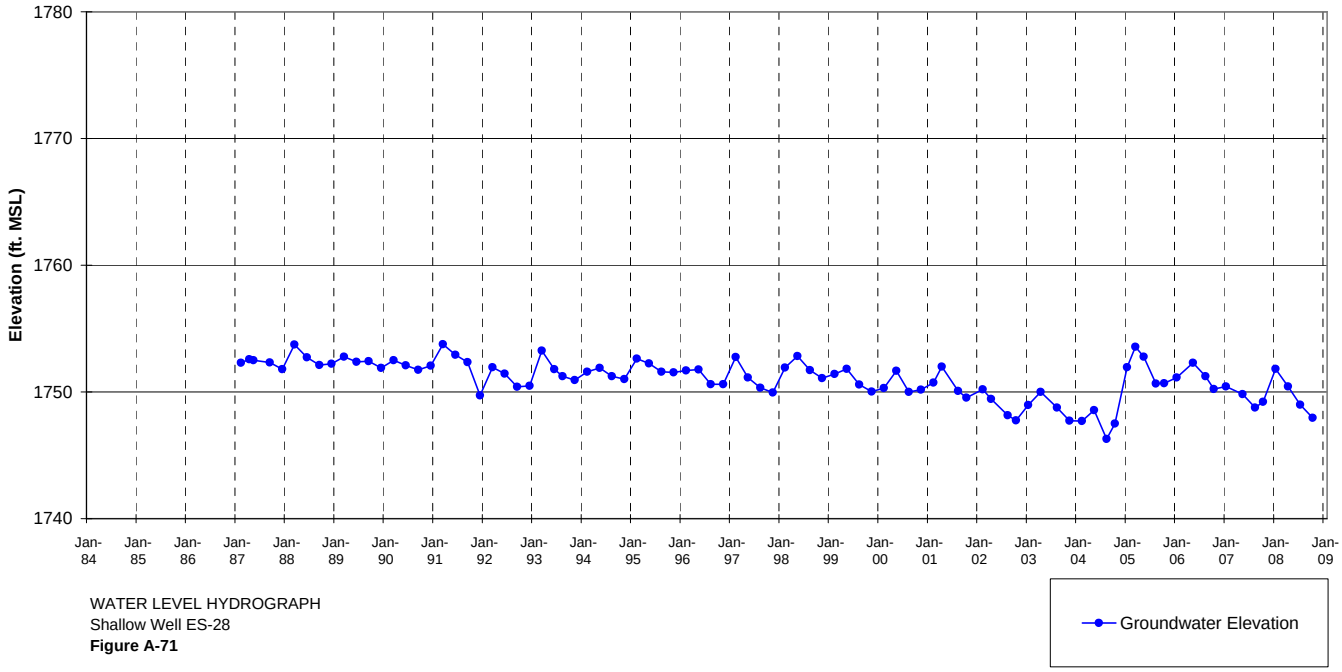
WATER LEVEL HYDROGRAPH
Shallow Well ES-25
Figure A-68



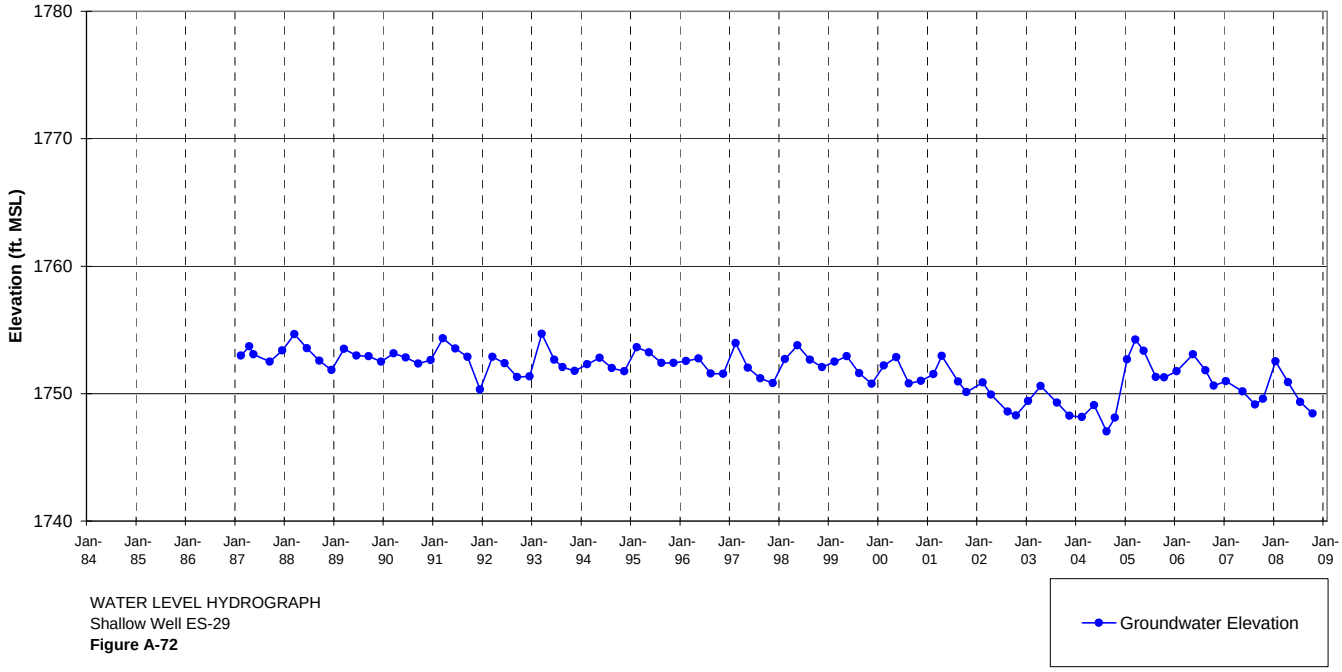
WATER LEVEL HYDROGRAPH
Shallow Well ES-26
Figure A-69



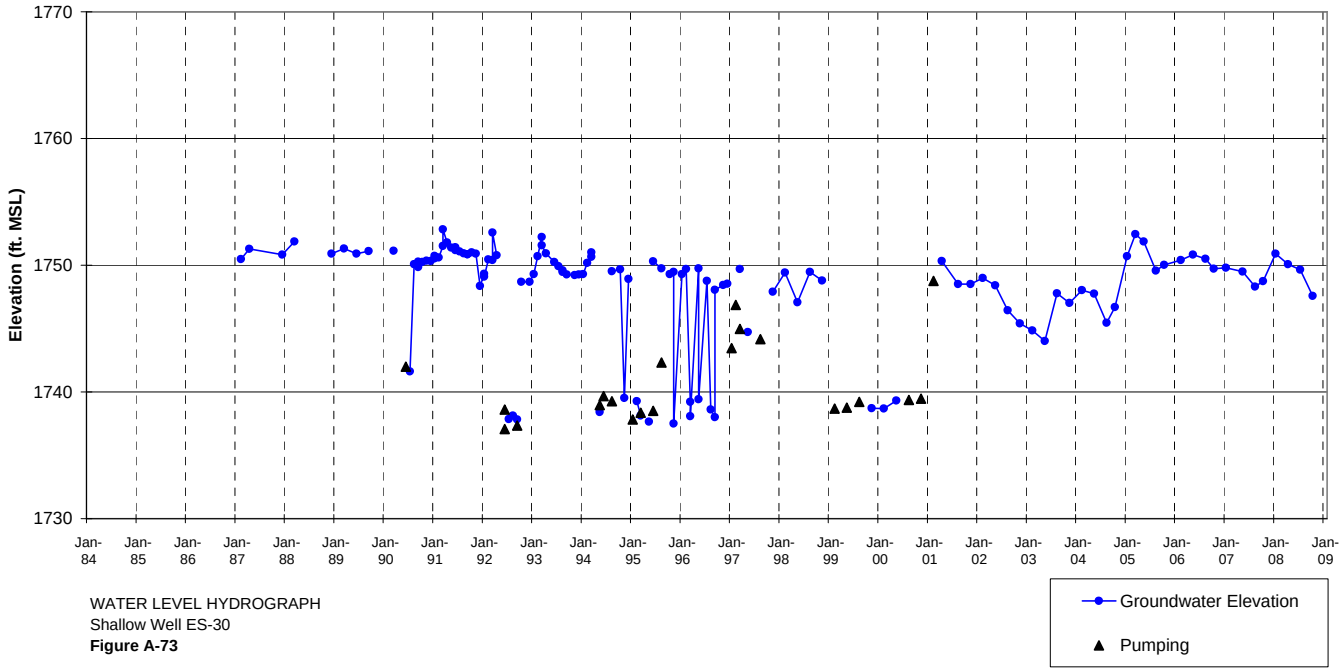
WATER LEVEL HYDROGRAPH
Shallow Well ES-27
Figure A-70



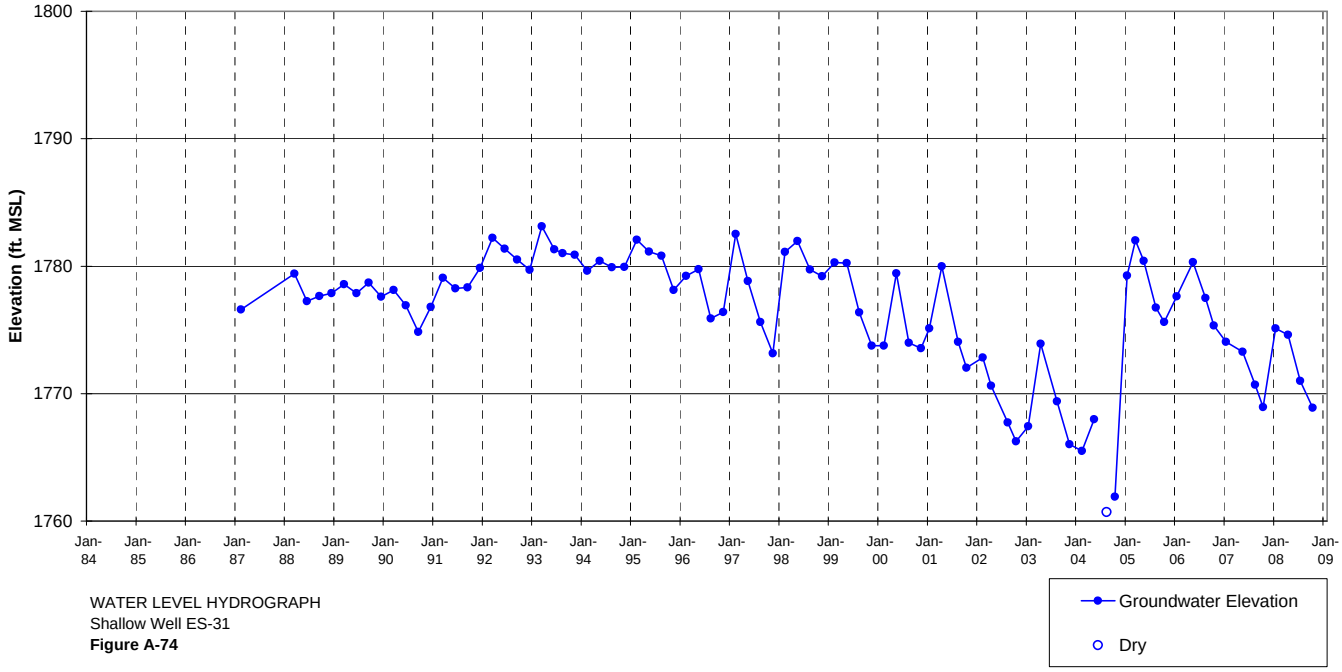
WATER LEVEL HYDROGRAPH
Shallow Well ES-28
Figure A-71



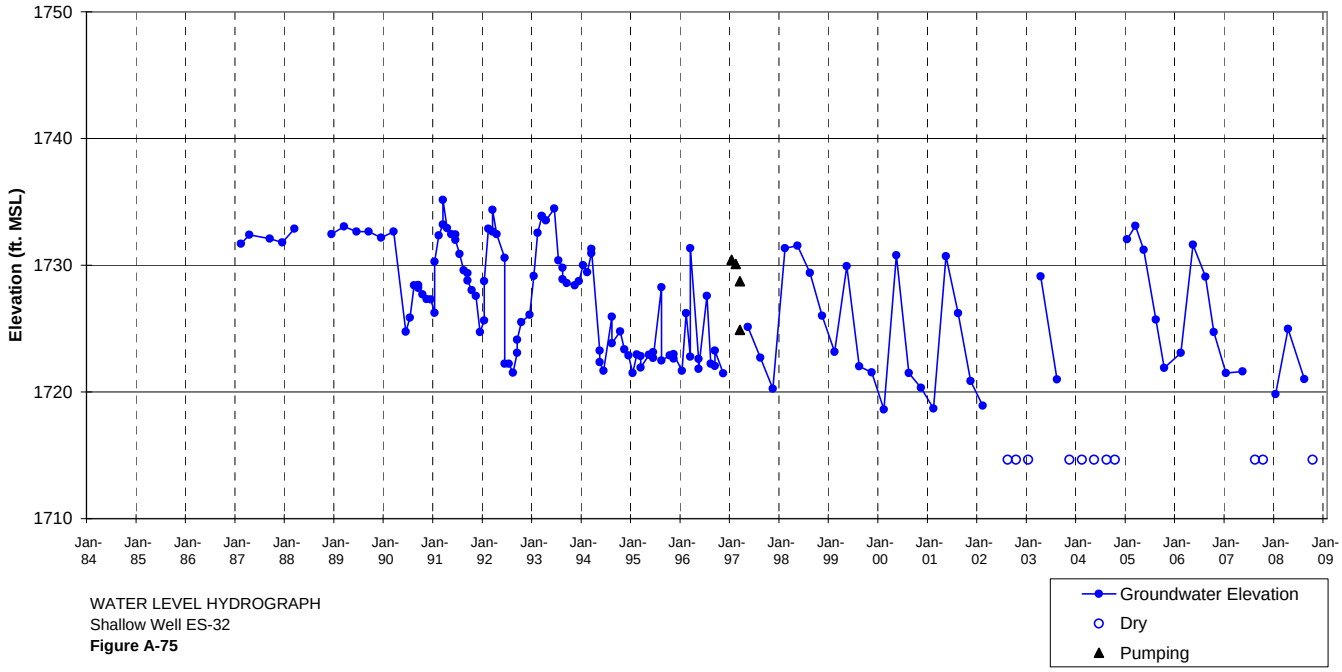
WATER LEVEL HYDROGRAPH
Shallow Well ES-29
Figure A-72



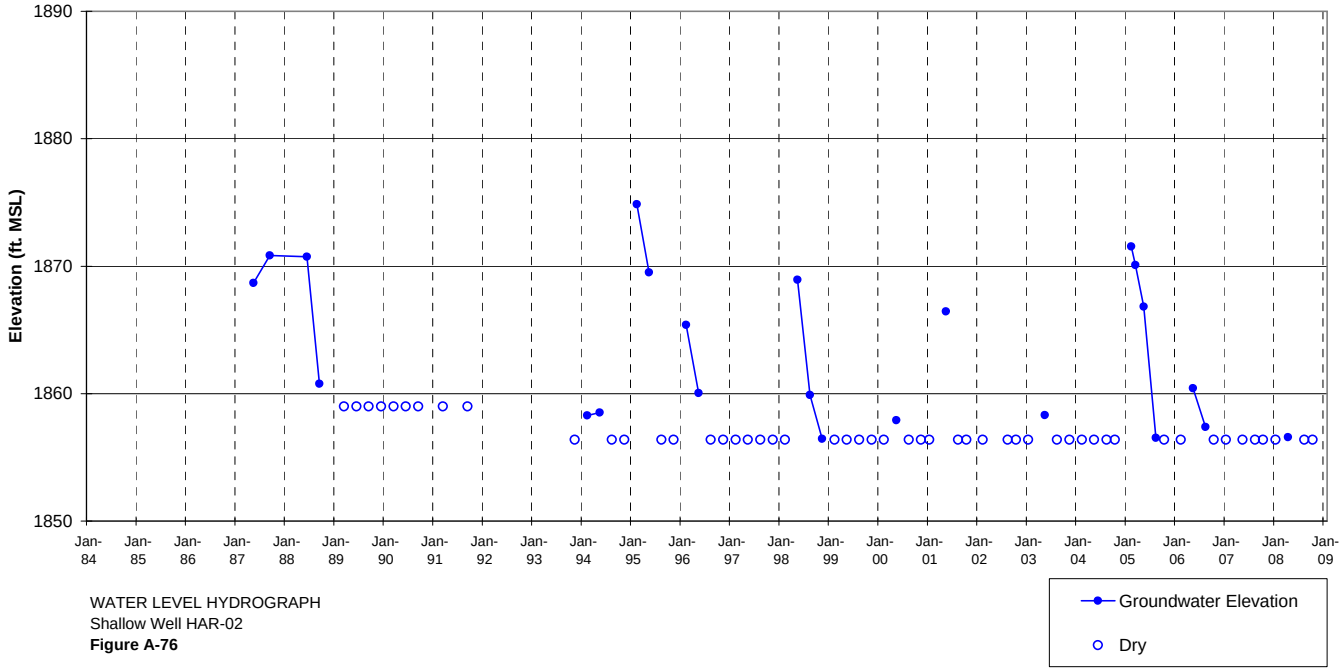
WATER LEVEL HYDROGRAPH
Shallow Well ES-30
Figure A-73



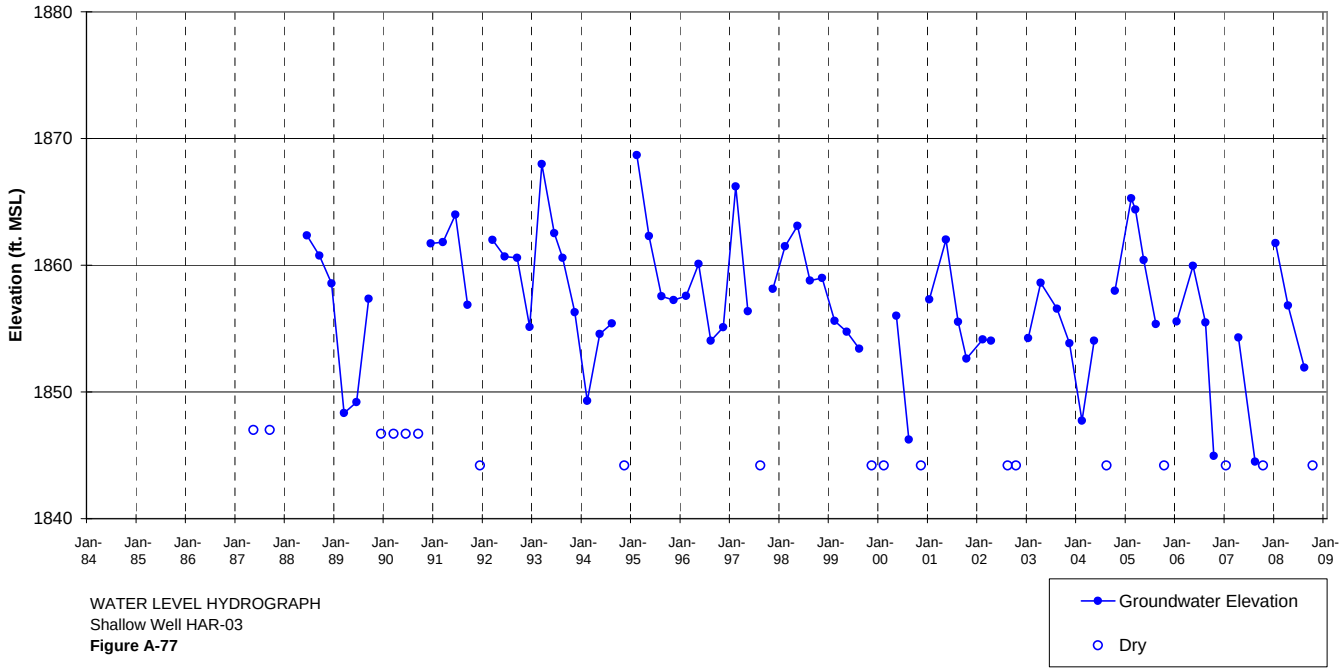
WATER LEVEL HYDROGRAPH
Shallow Well ES-31
Figure A-74



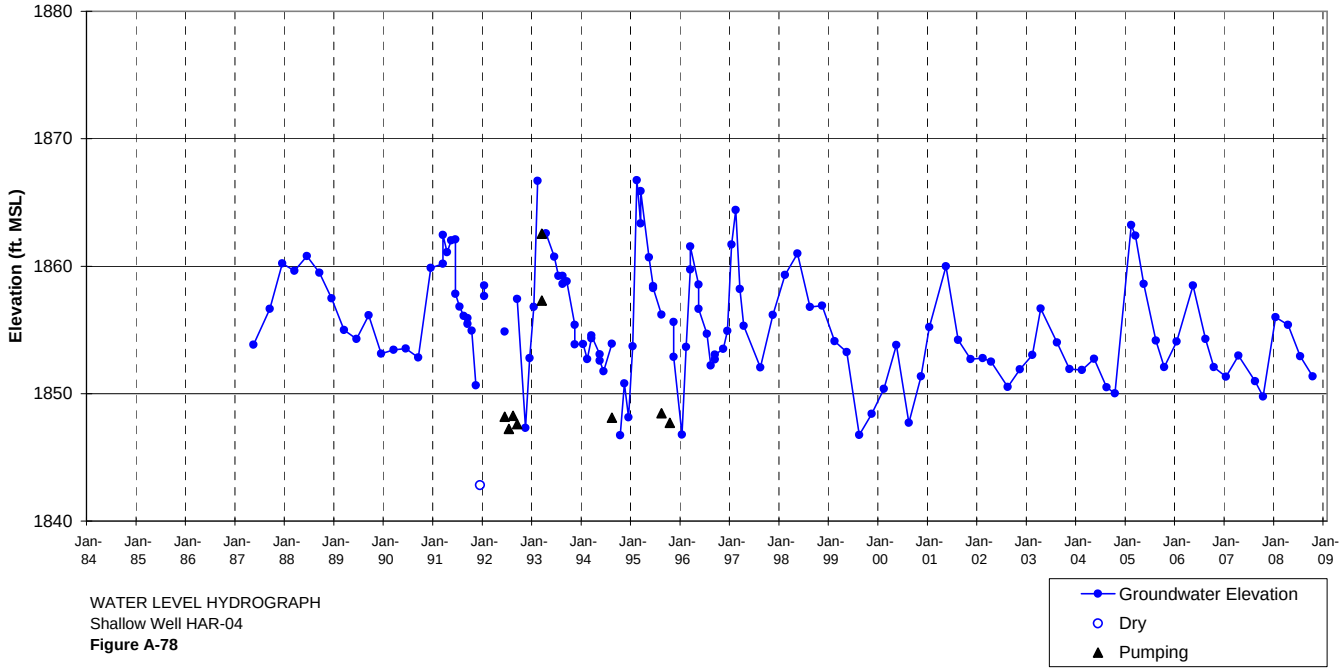
WATER LEVEL HYDROGRAPH
Shallow Well ES-32
Figure A-75



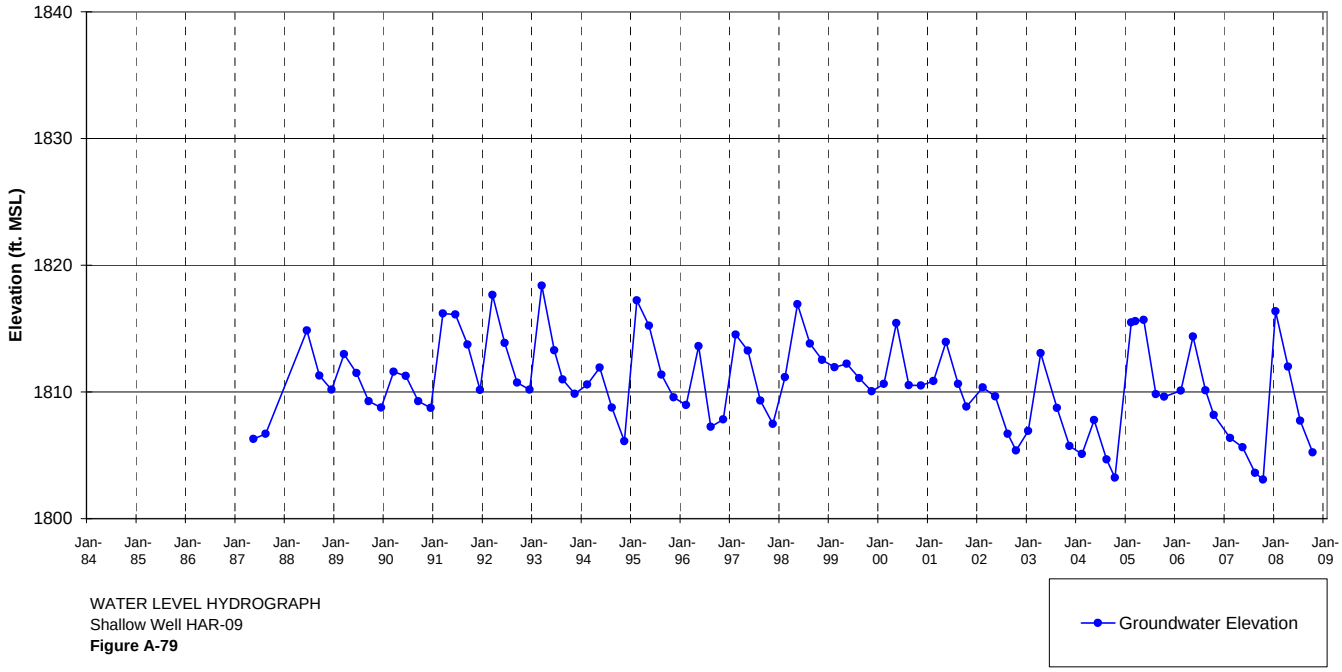
WATER LEVEL HYDROGRAPH
Shallow Well HAR-02
Figure A-76



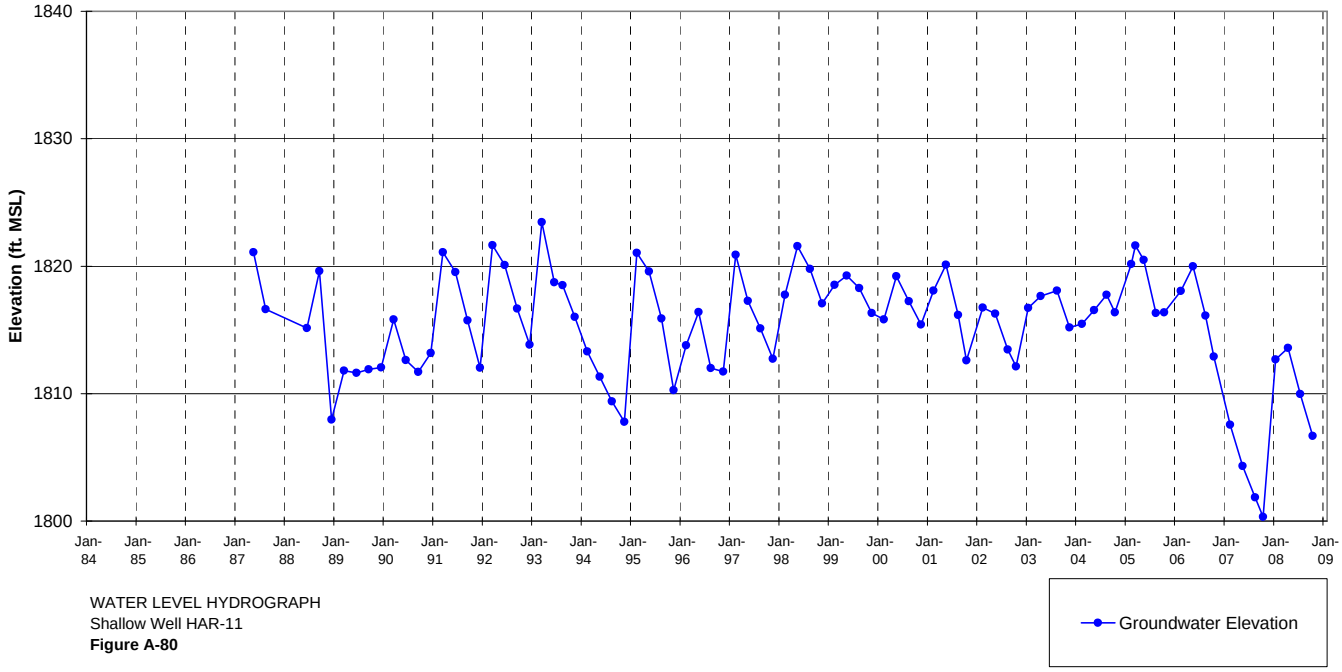
WATER LEVEL HYDROGRAPH
Shallow Well HAR-03
Figure A-77



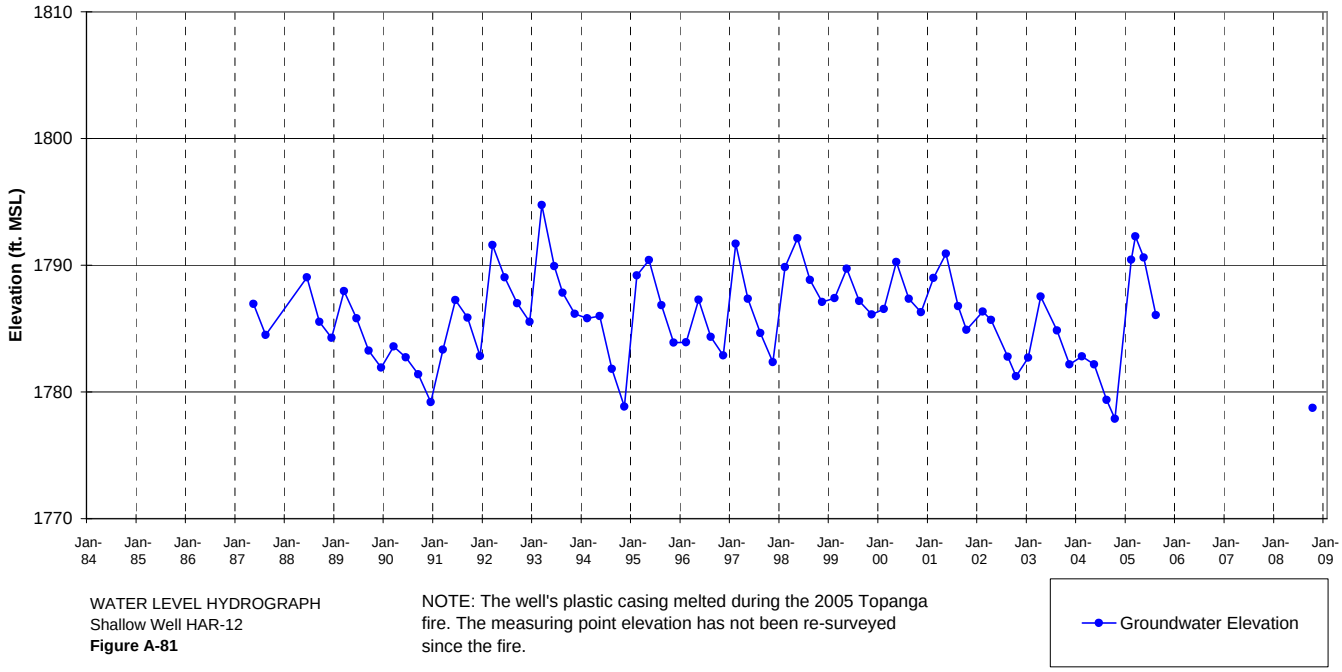
WATER LEVEL HYDROGRAPH
Shallow Well HAR-04
Figure A-78



WATER LEVEL HYDROGRAPH
Shallow Well HAR-09
Figure A-79

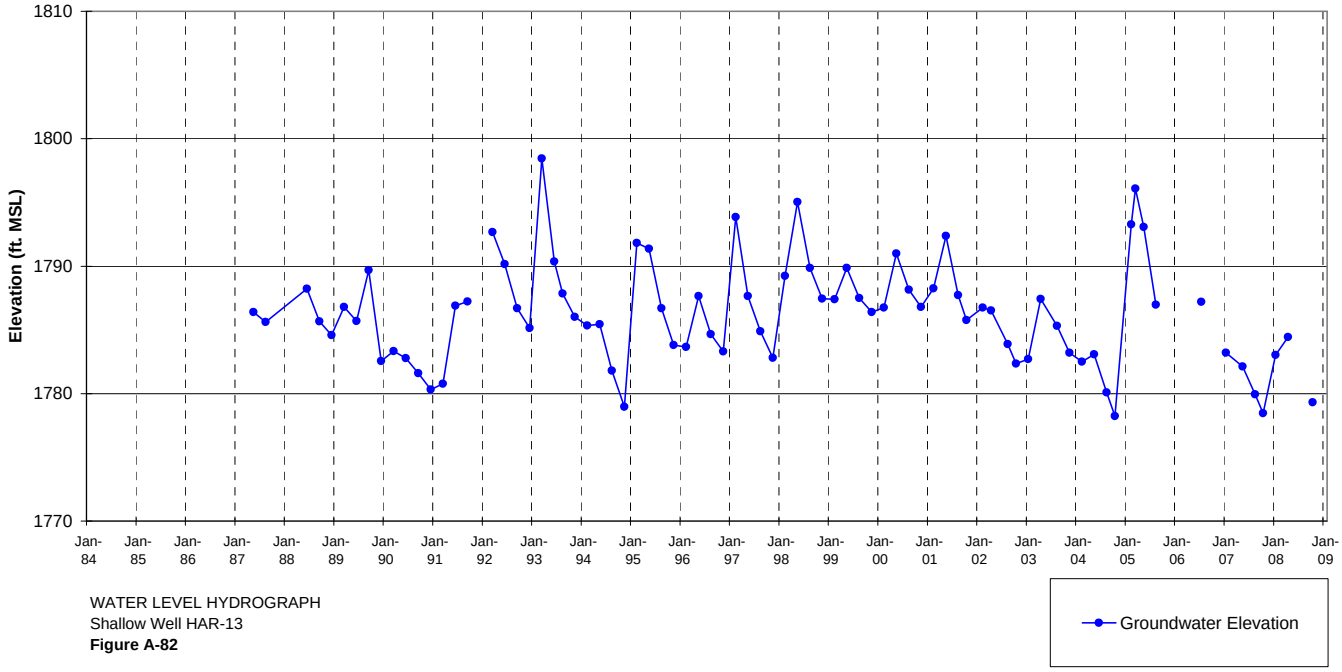


WATER LEVEL HYDROGRAPH
Shallow Well HAR-11
Figure A-80

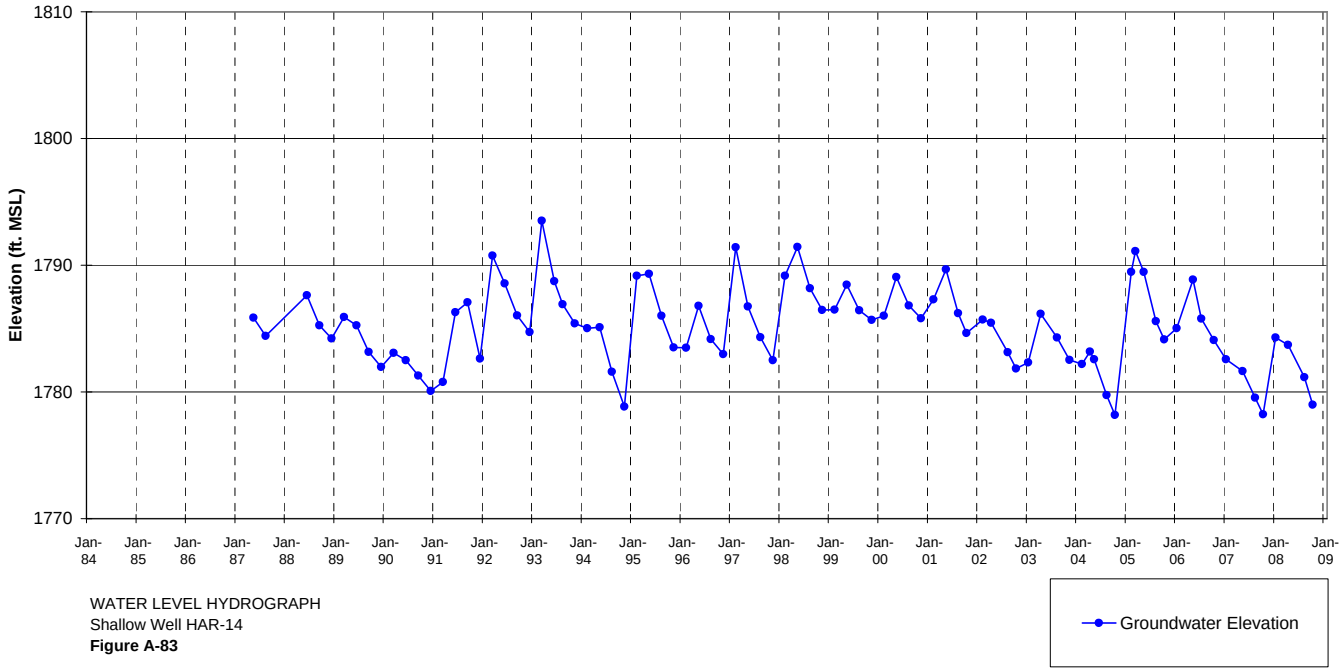


WATER LEVEL HYDROGRAPH
Shallow Well HAR-12
Figure A-81

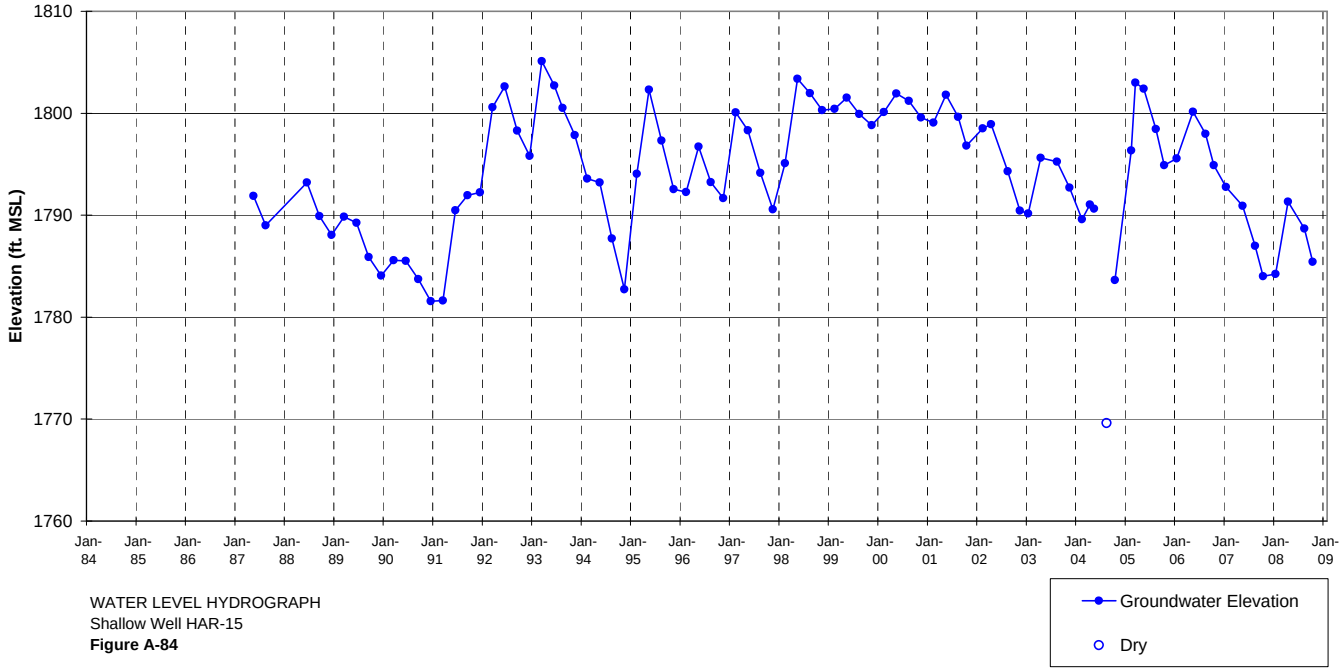
NOTE: The well's plastic casing melted during the 2005 Topanga fire. The measuring point elevation has not been re-surveyed since the fire.



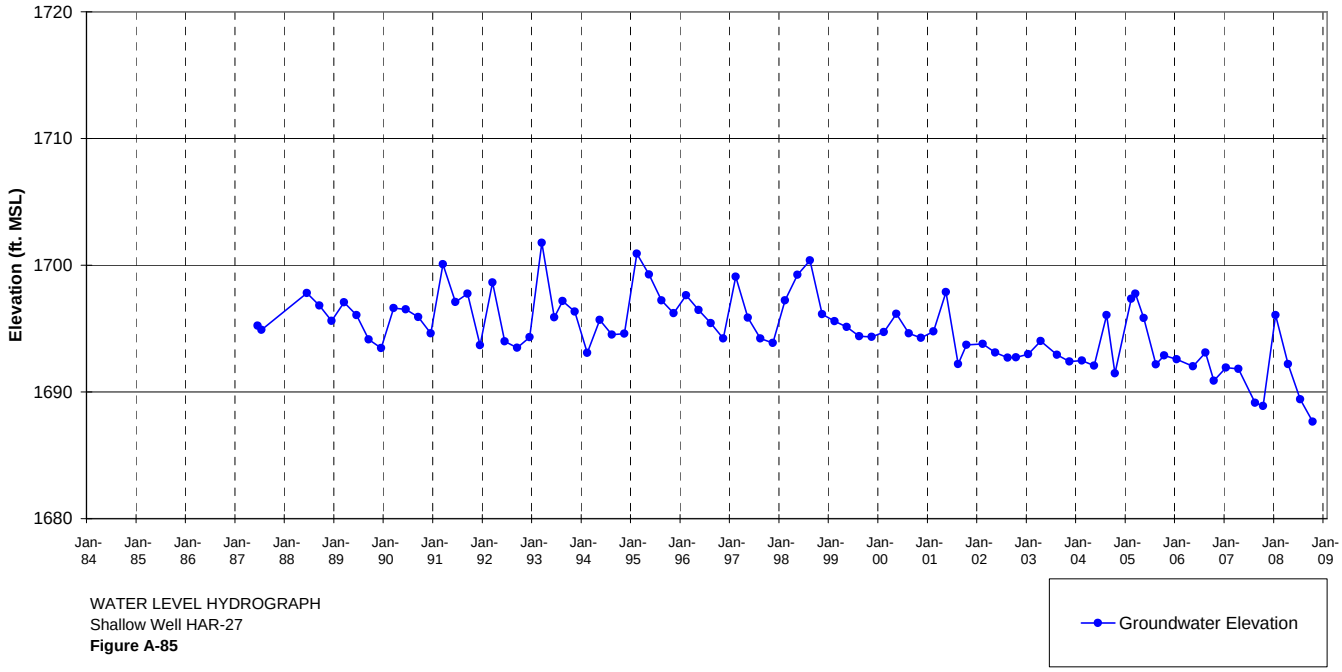
WATER LEVEL HYDROGRAPH
Shallow Well HAR-13
Figure A-82



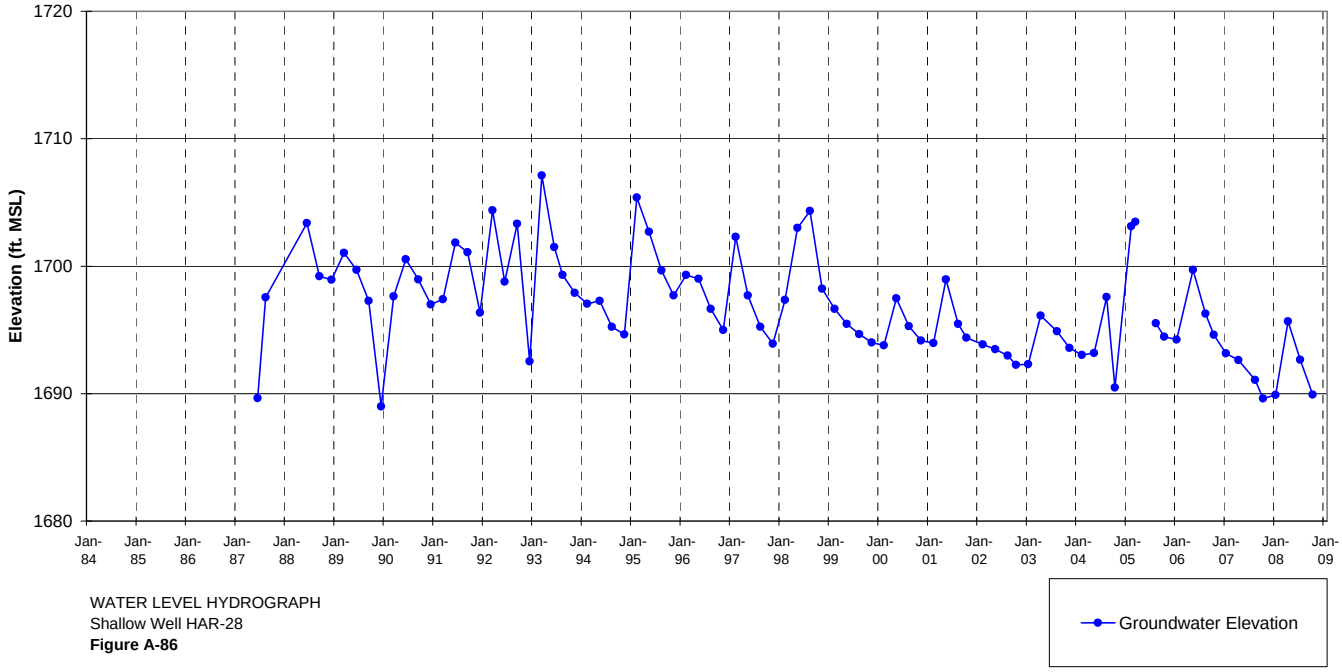
WATER LEVEL HYDROGRAPH
Shallow Well HAR-14
Figure A-83



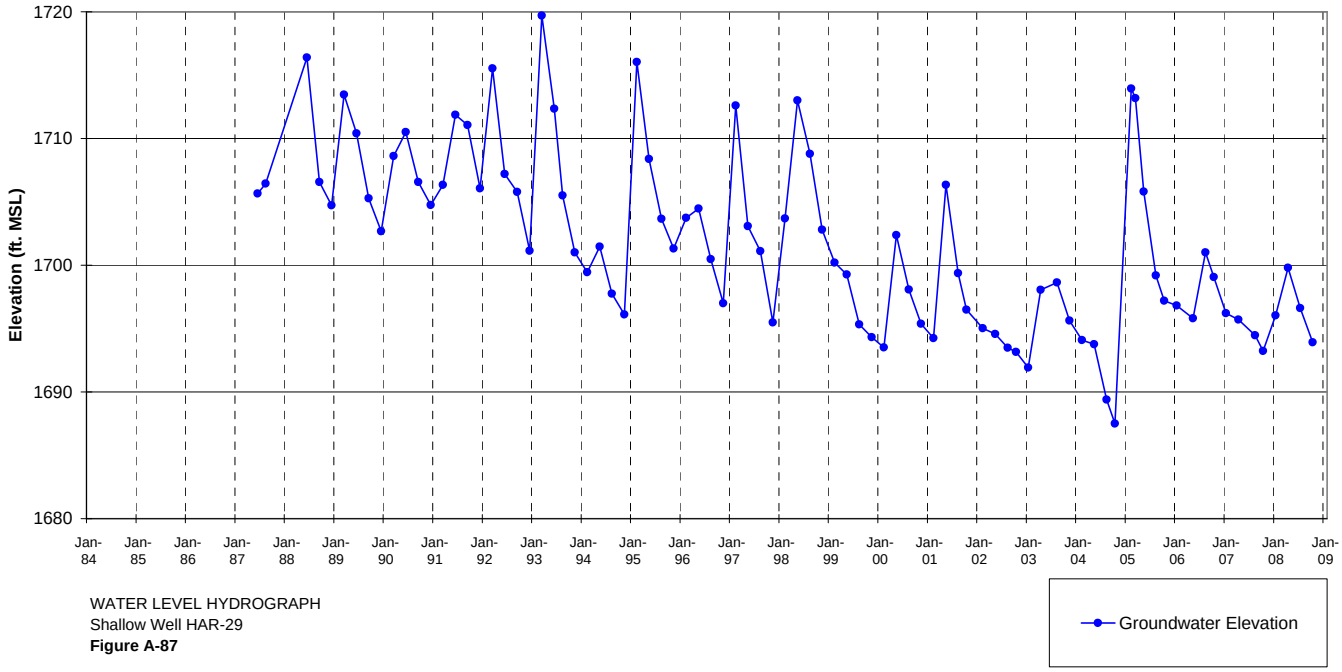
WATER LEVEL HYDROGRAPH
Shallow Well HAR-15
Figure A-84



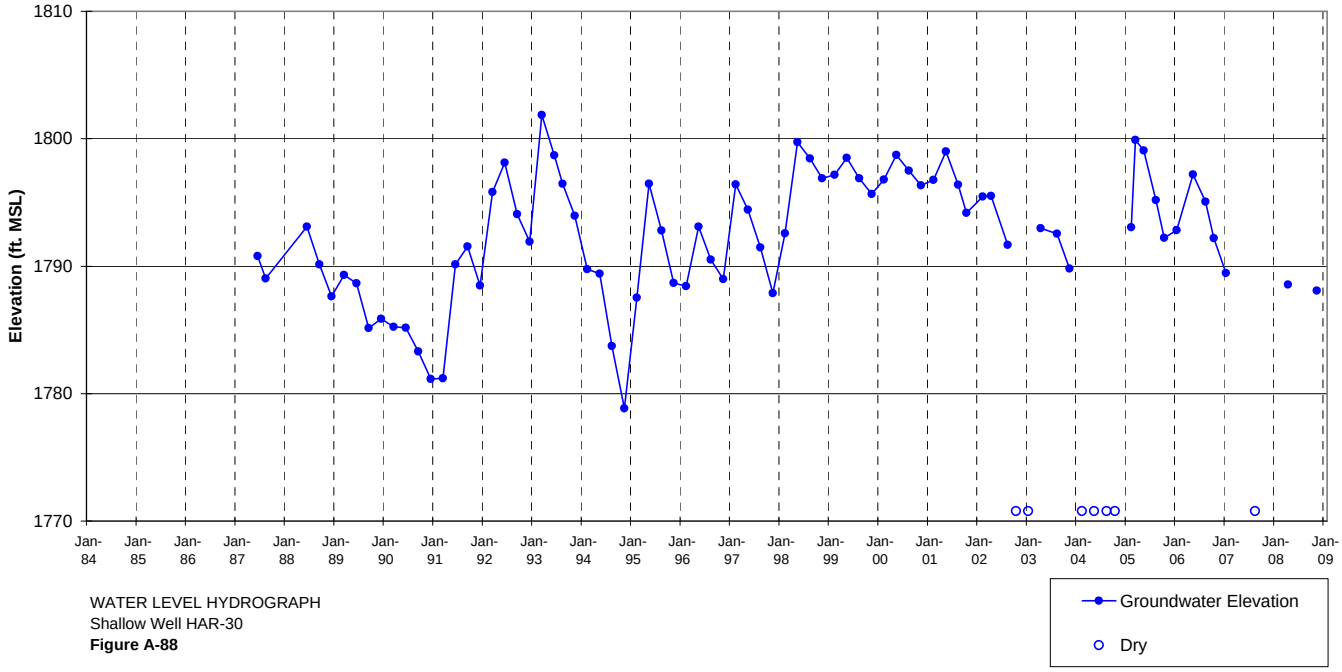
WATER LEVEL HYDROGRAPH
Shallow Well HAR-27
Figure A-85



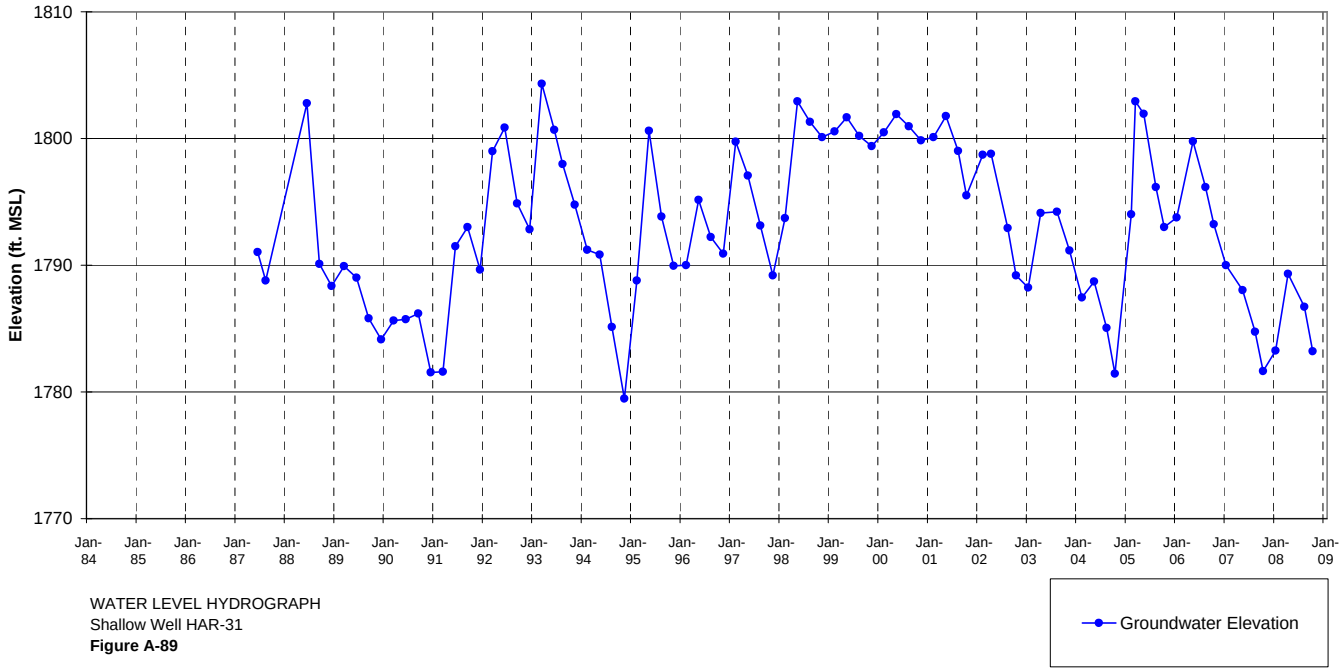
WATER LEVEL HYDROGRAPH
Shallow Well HAR-28
Figure A-86



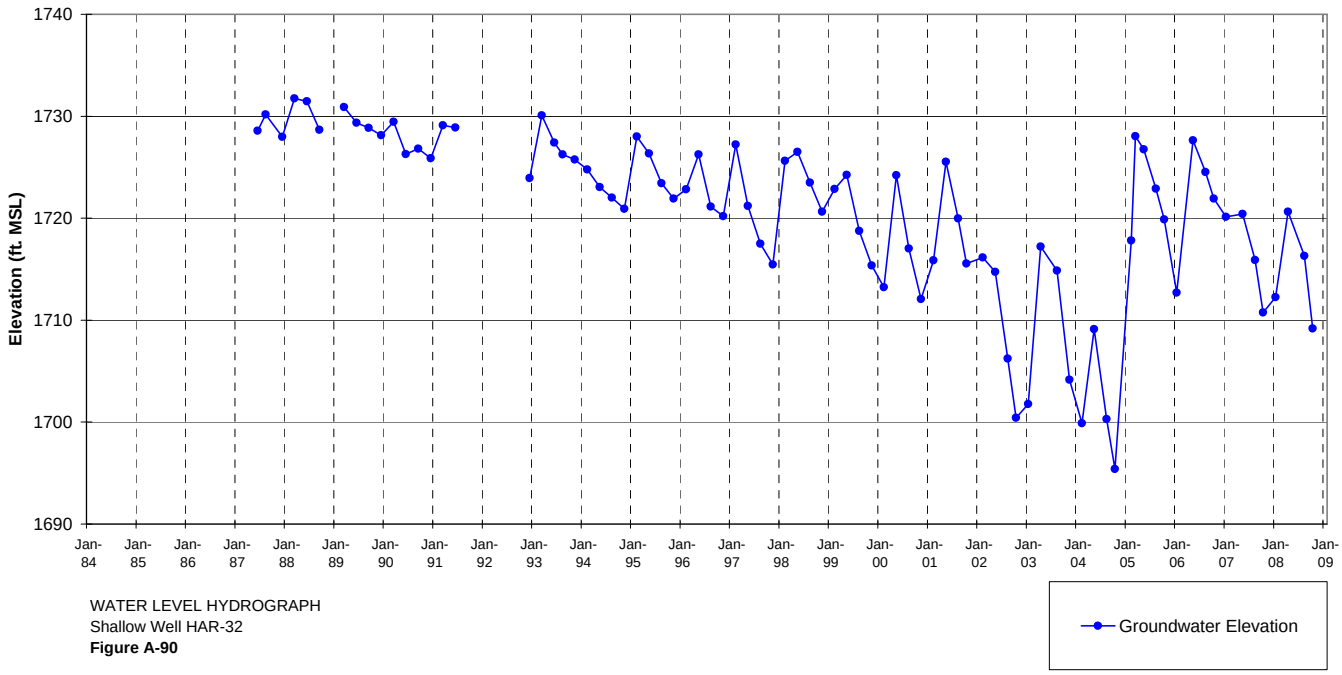
WATER LEVEL HYDROGRAPH
Shallow Well HAR-29
Figure A-87



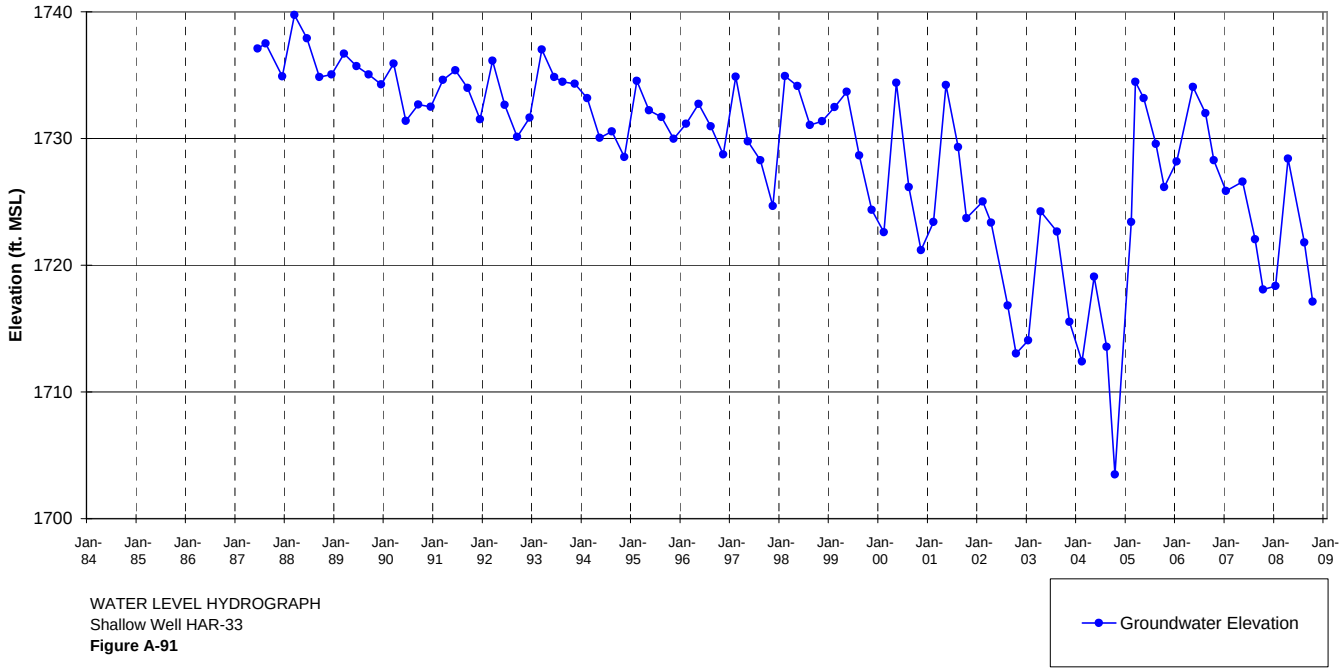
WATER LEVEL HYDROGRAPH
Shallow Well HAR-30
Figure A-88



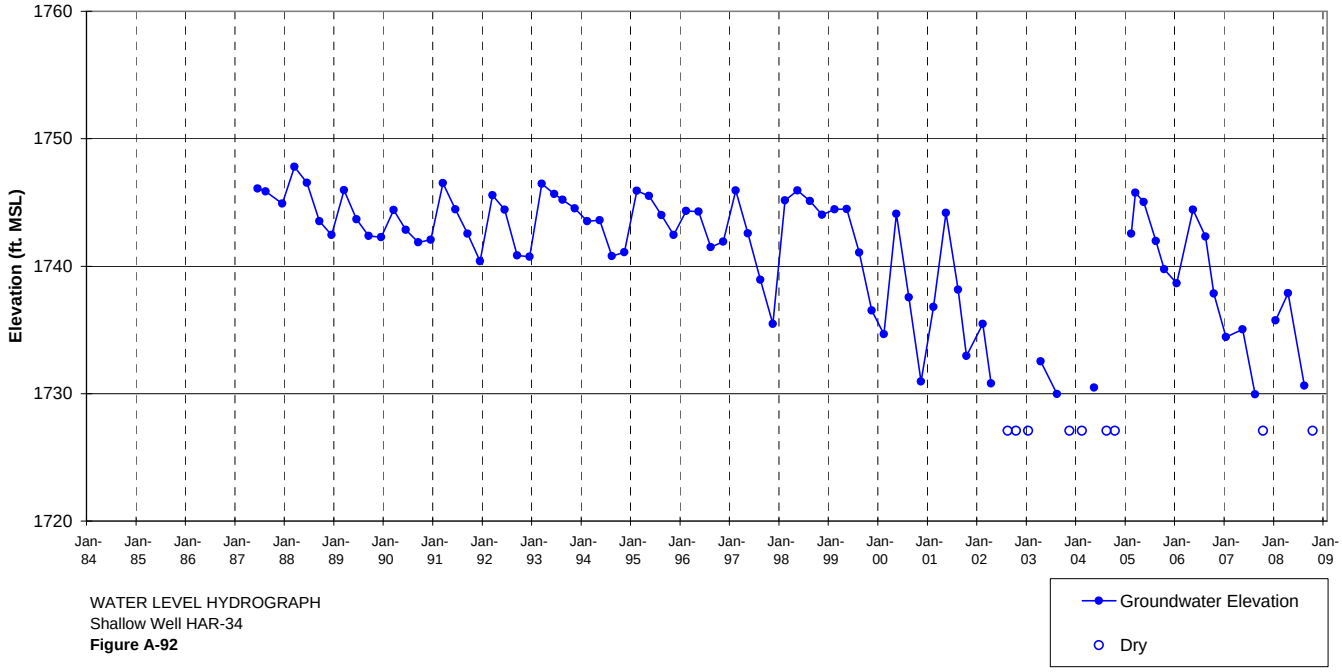
WATER LEVEL HYDROGRAPH
Shallow Well HAR-31
Figure A-89



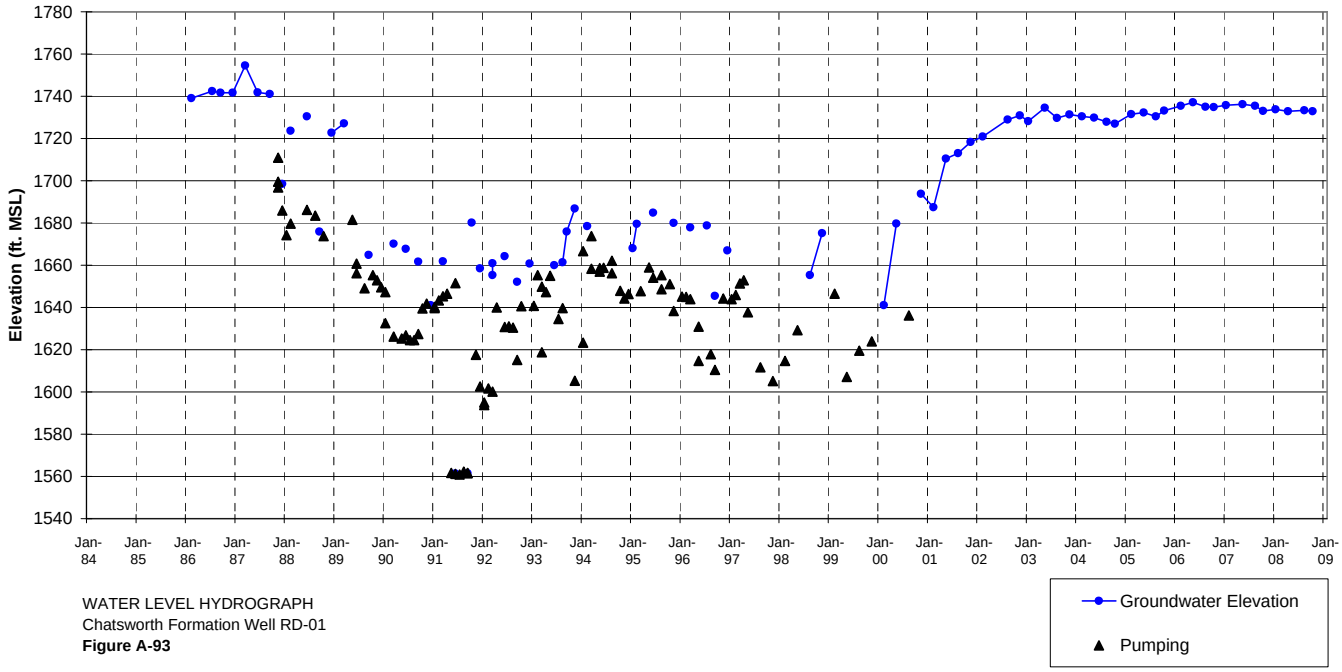
WATER LEVEL HYDROGRAPH
Shallow Well HAR-32
Figure A-90



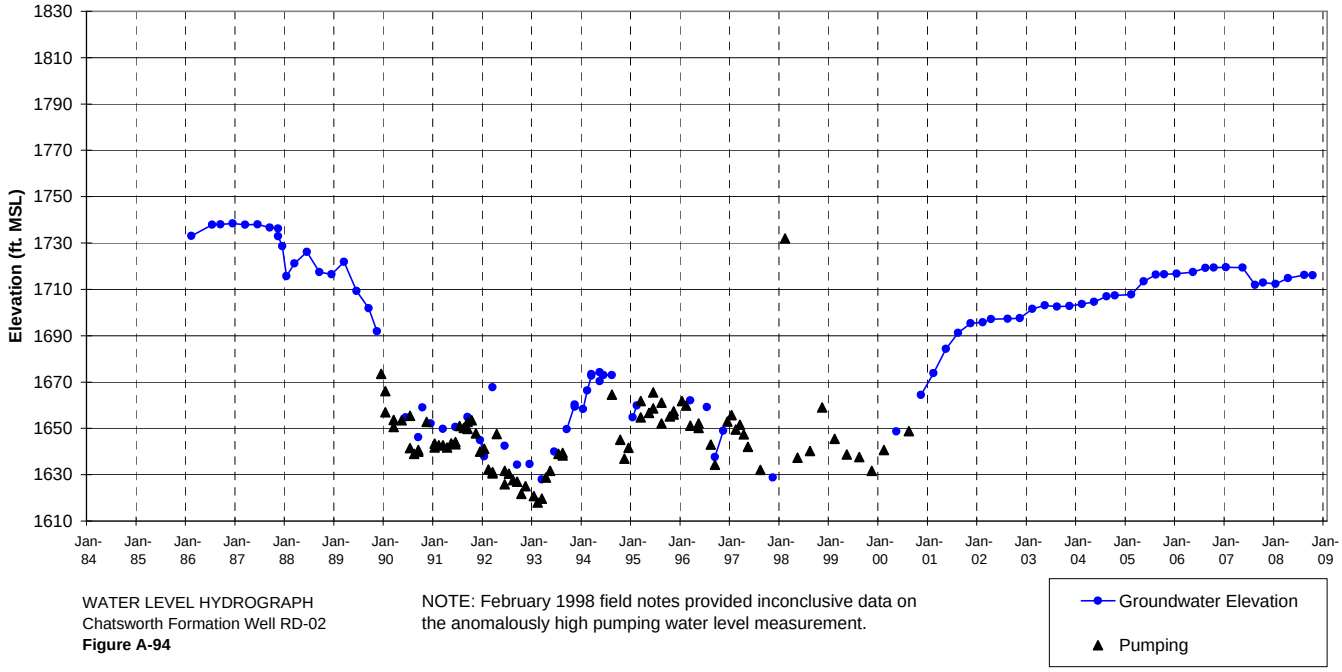
WATER LEVEL HYDROGRAPH
Shallow Well HAR-33
Figure A-91



WATER LEVEL HYDROGRAPH
Shallow Well HAR-34
Figure A-92

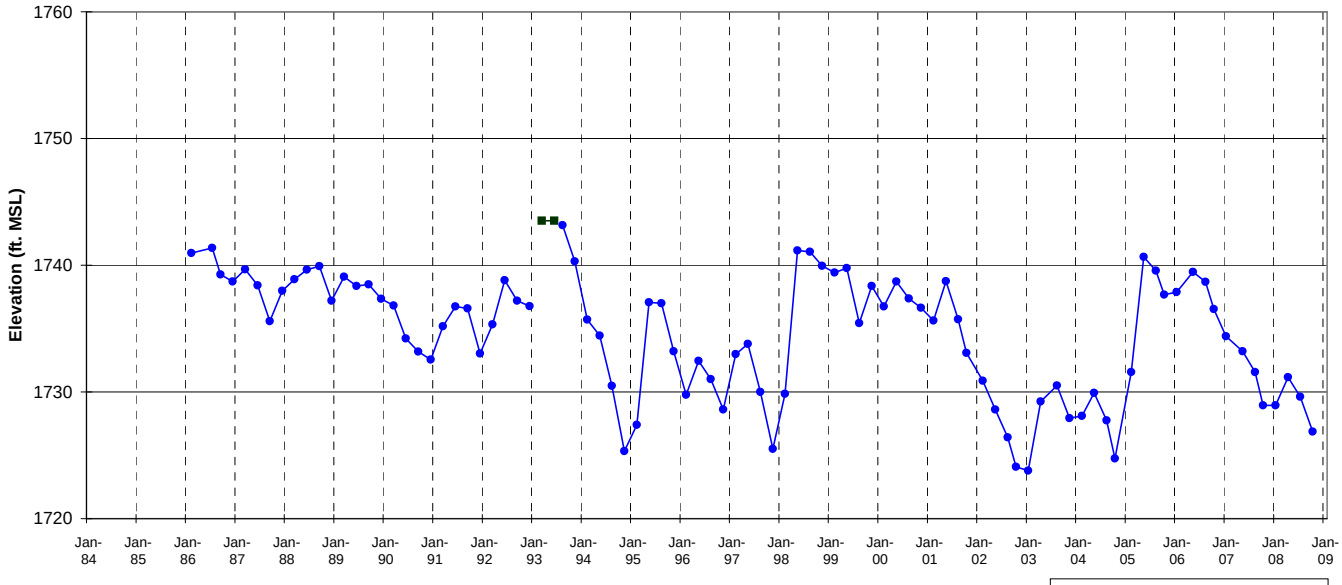


WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-01
Figure A-93



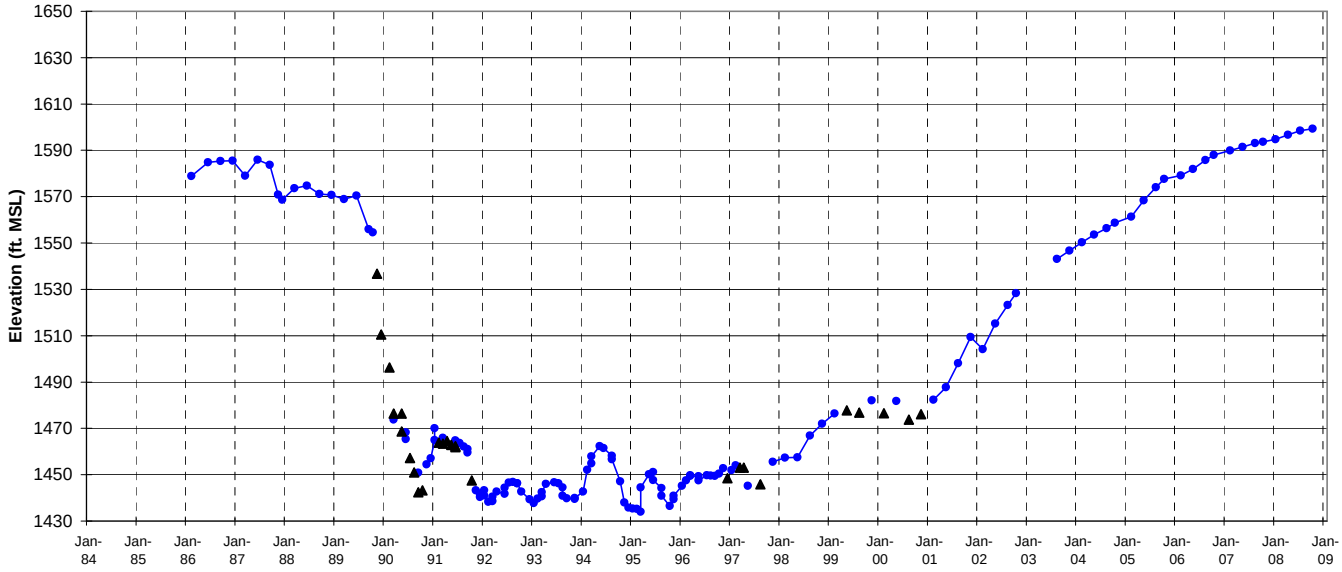
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-02
Figure A-94

NOTE: February 1998 field notes provided inconclusive data on the anomalously high pumping water level measurement.

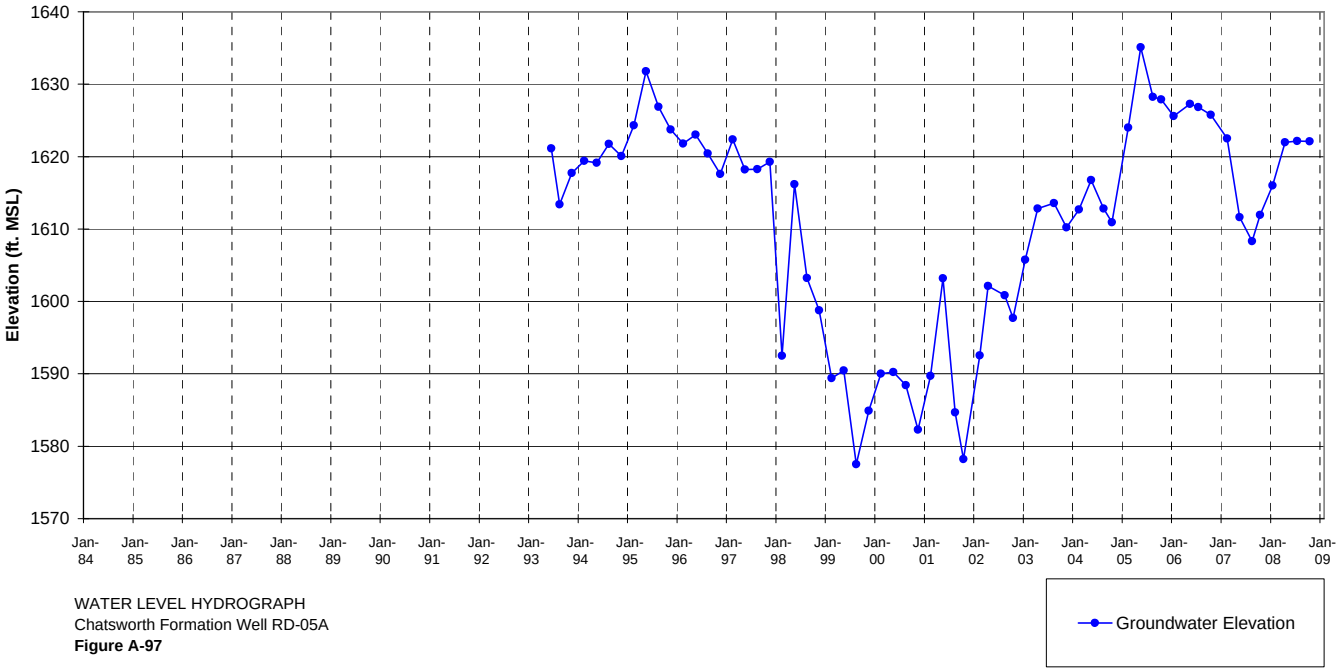


WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-03
Figure A-95

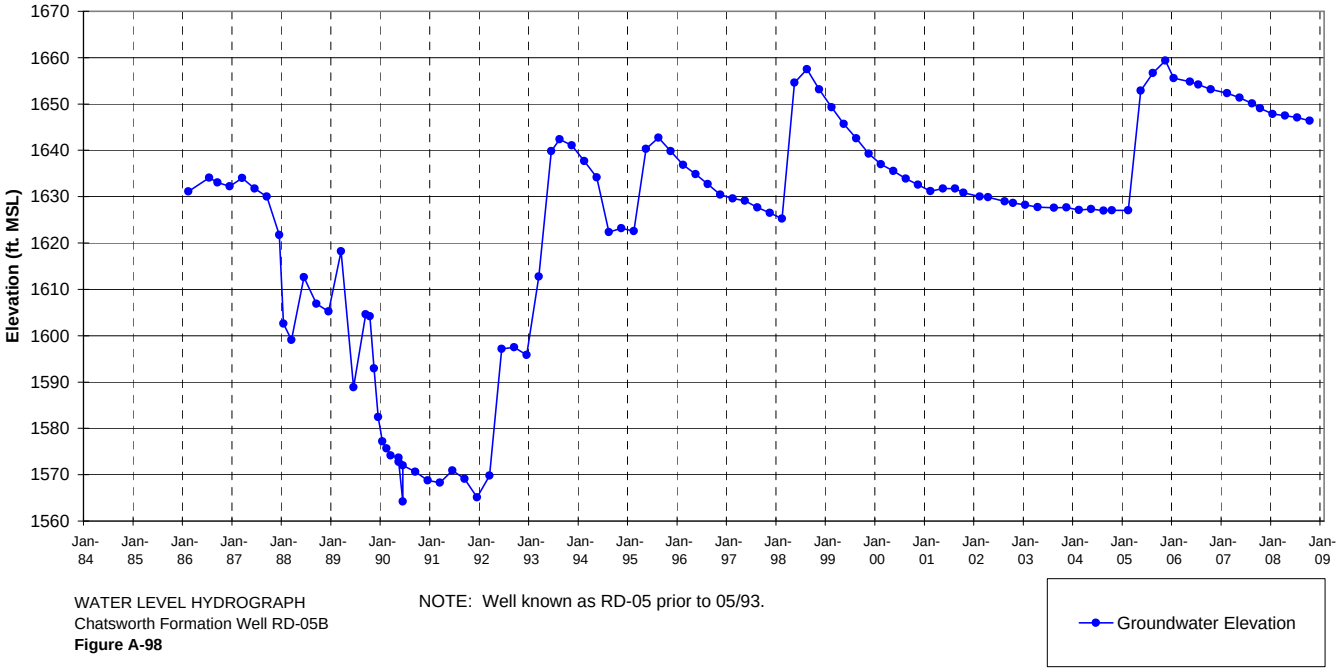
NOTE: MPE is provided when the hydrostatic water elevation is unavailable and flowing water is observed. MP Elevation = 1743.5 ft. msl



WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-04
Figure A-96

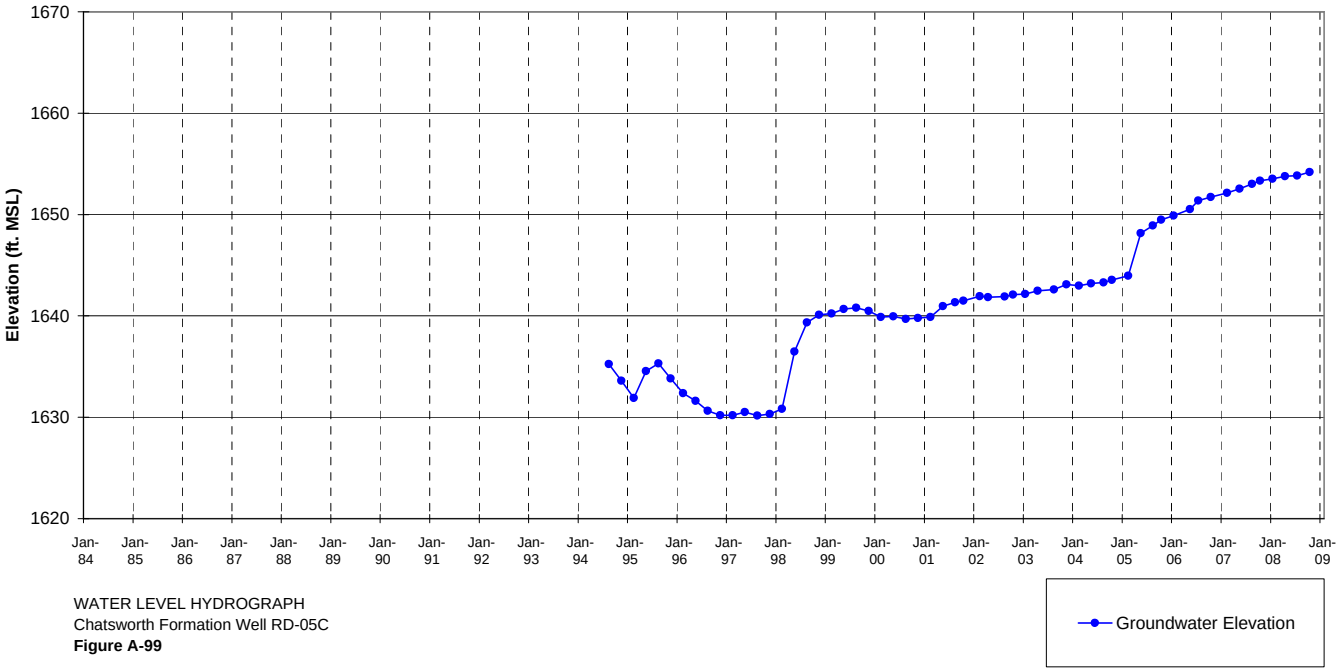


WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-05A
Figure A-97

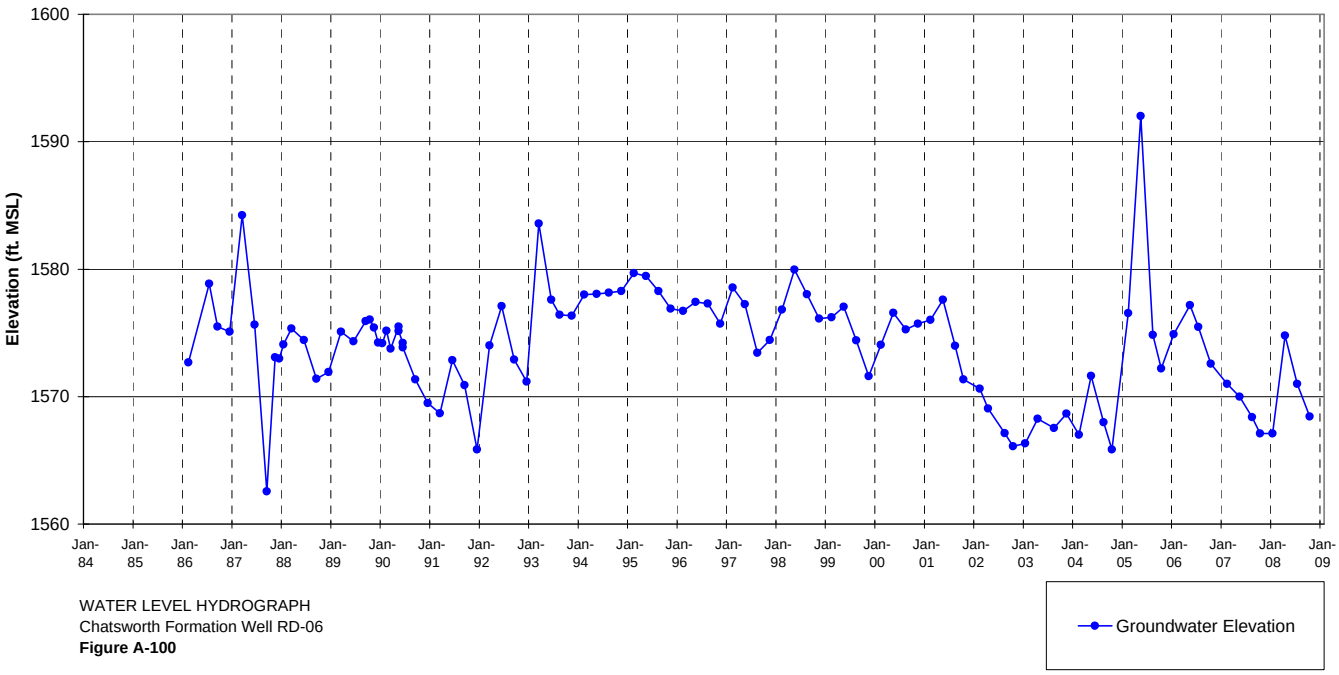


WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-05B
Figure A-98

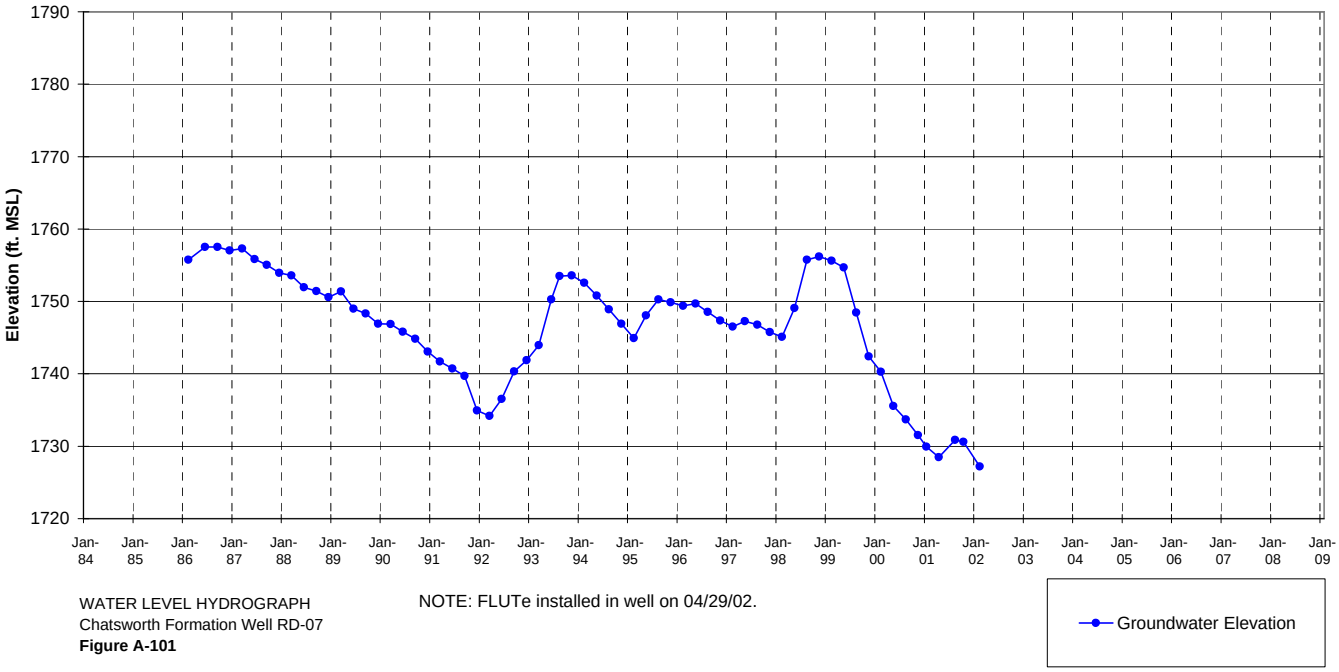
NOTE: Well known as RD-05 prior to 05/93.



WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-05C
Figure A-99

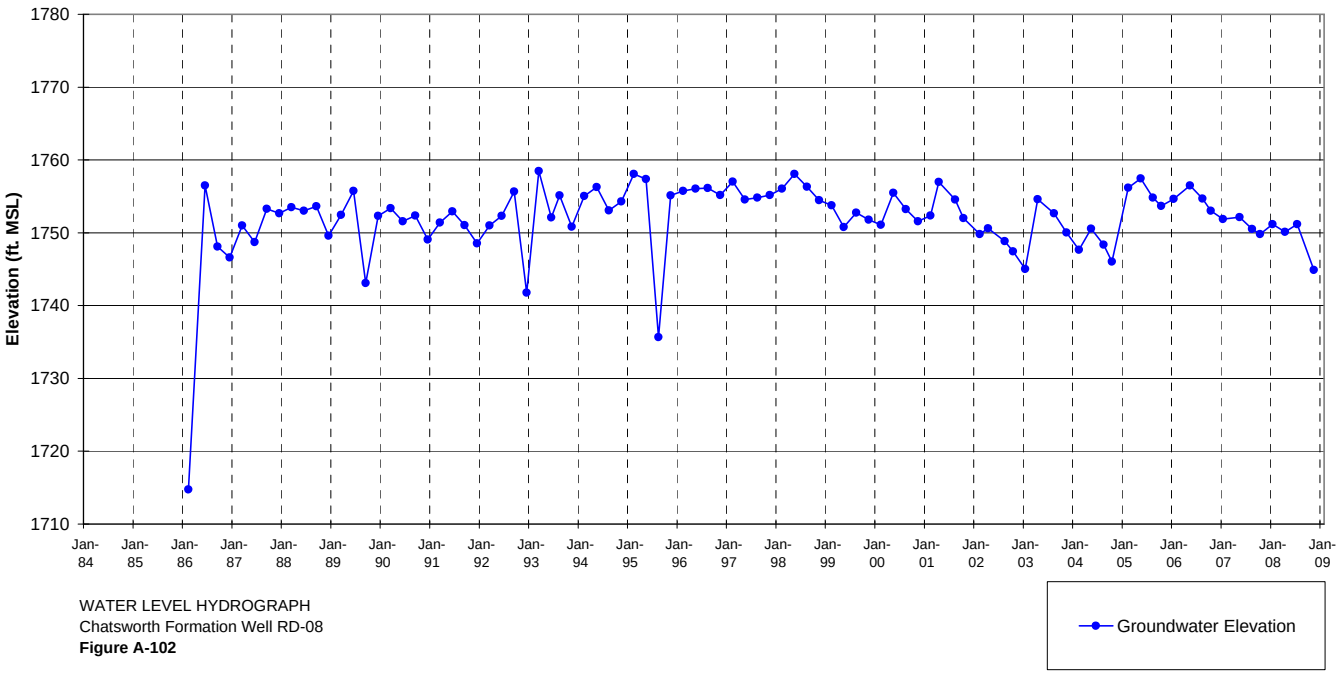


WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-06
Figure A-100

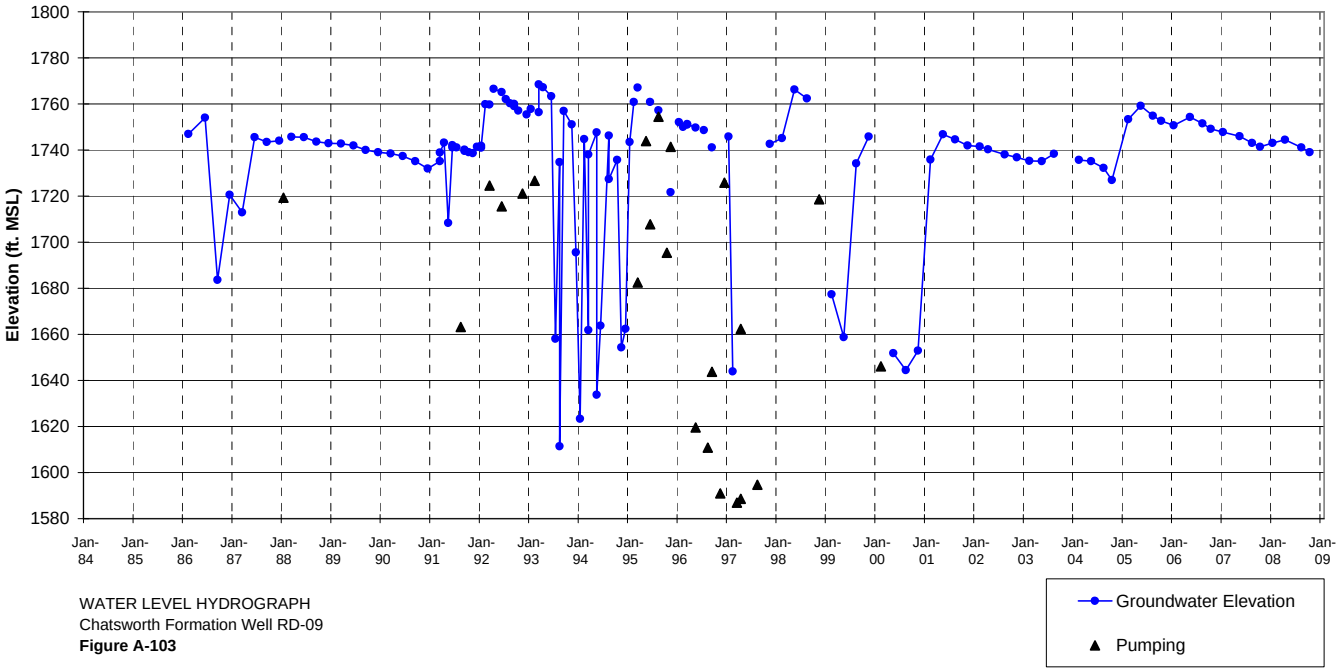


WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-07
Figure A-101

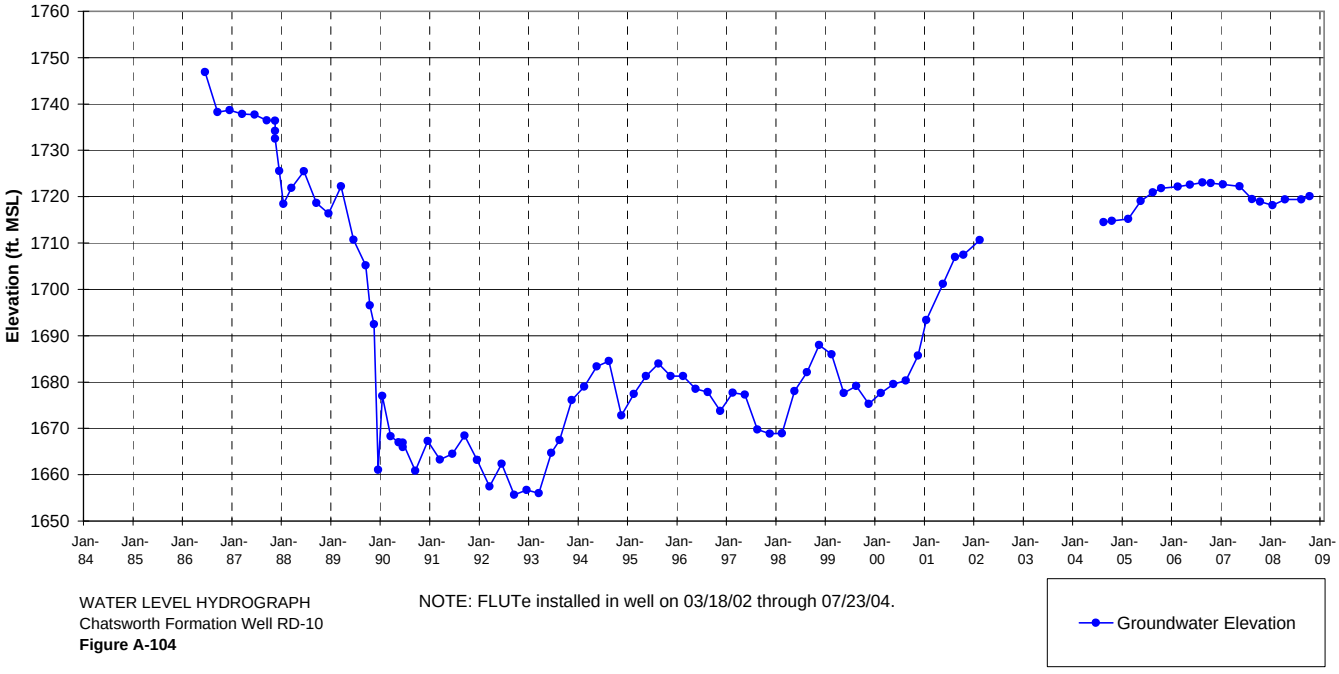
NOTE: FLUTe installed in well on 04/29/02.



WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-08
Figure A-102

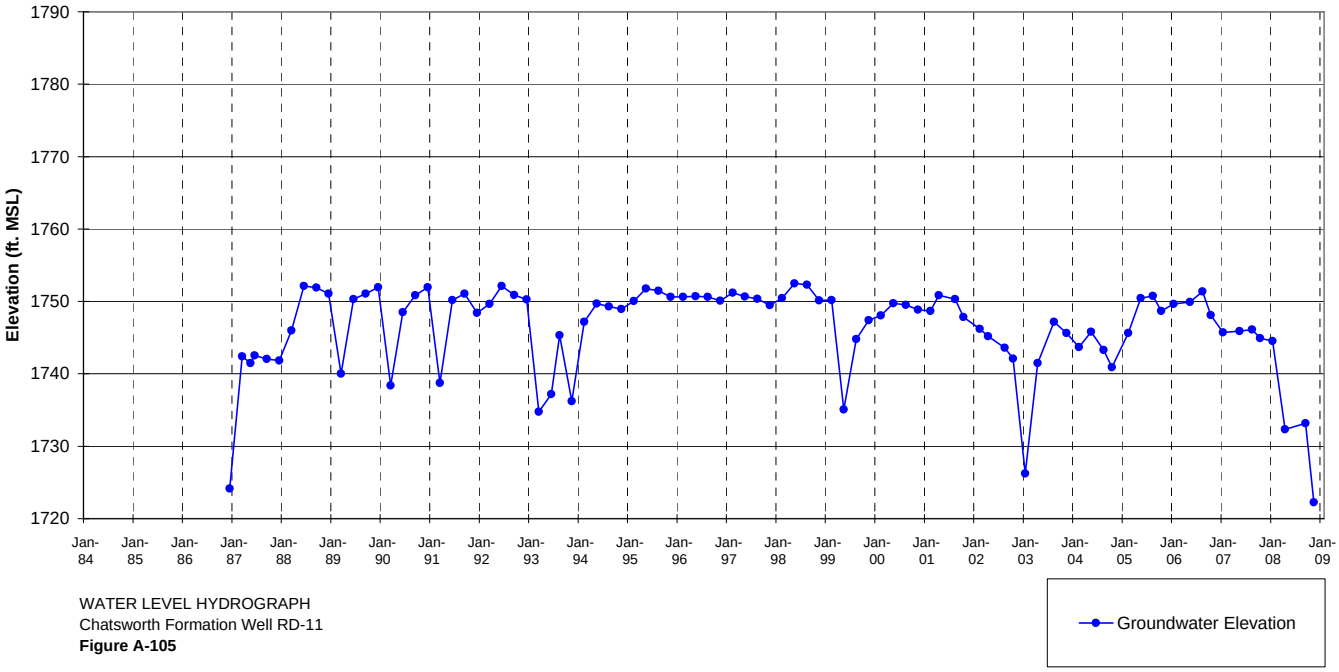


WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-09
Figure A-103

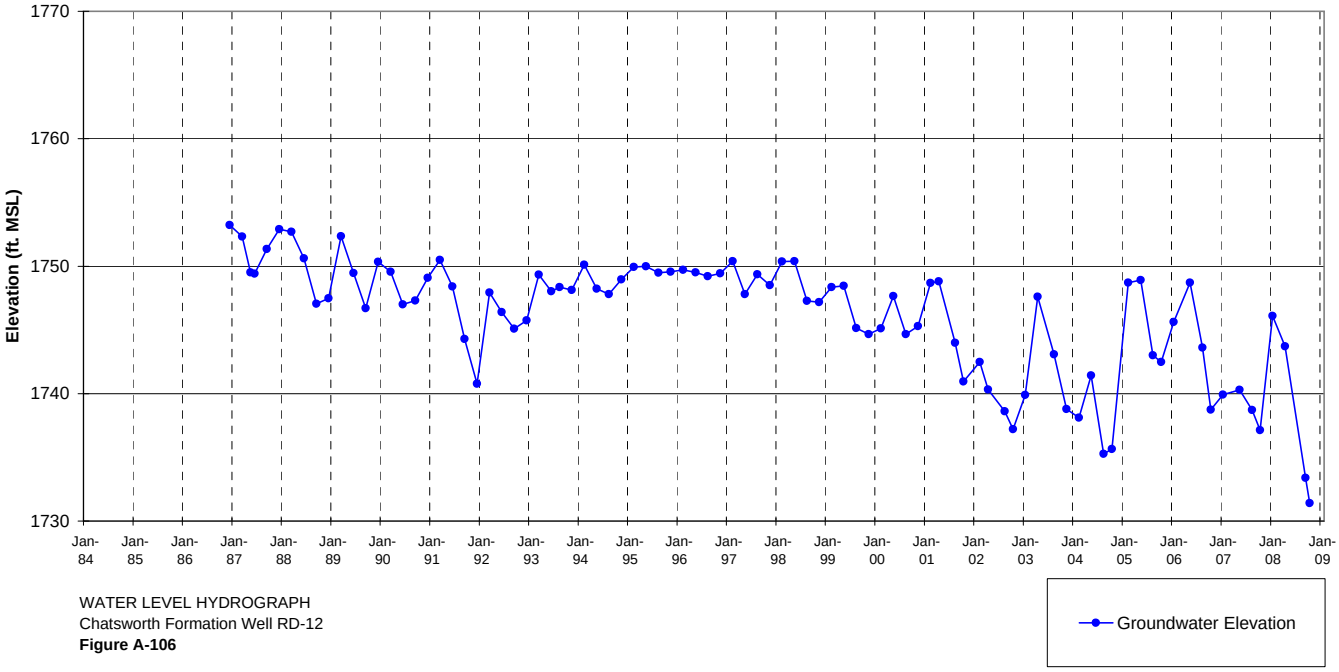


WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-10
Figure A-104

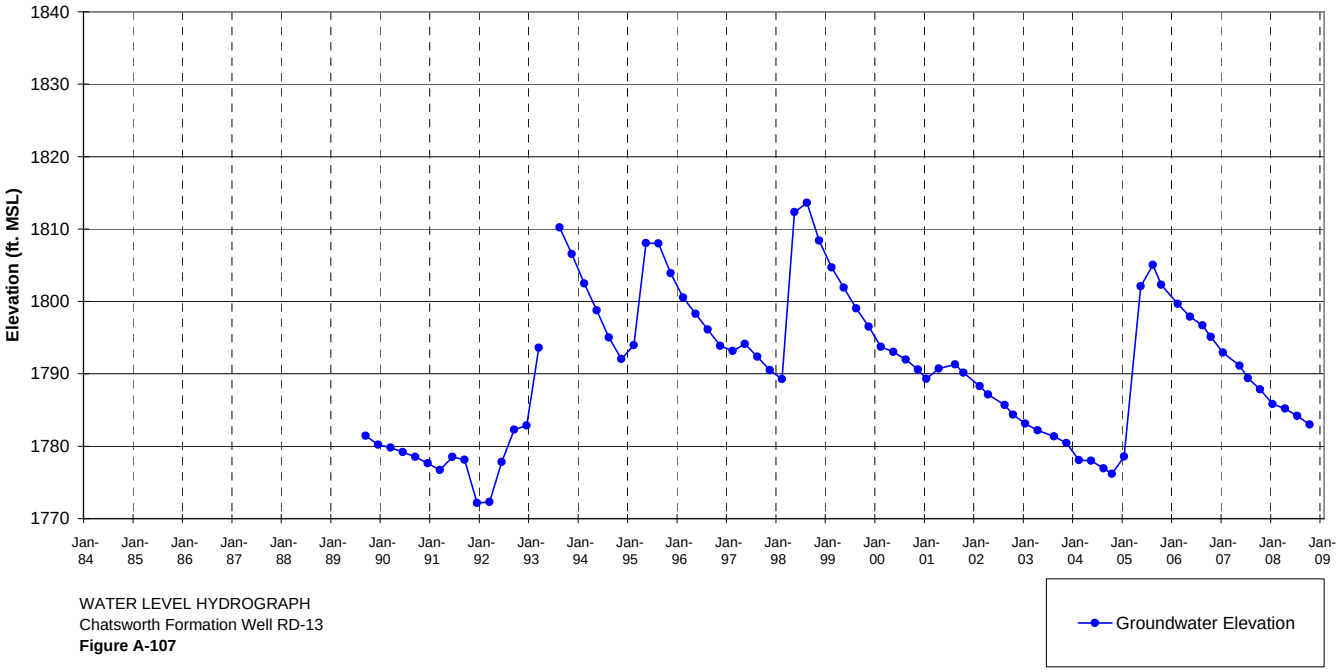
NOTE: FLUTe installed in well on 03/18/02 through 07/23/04.



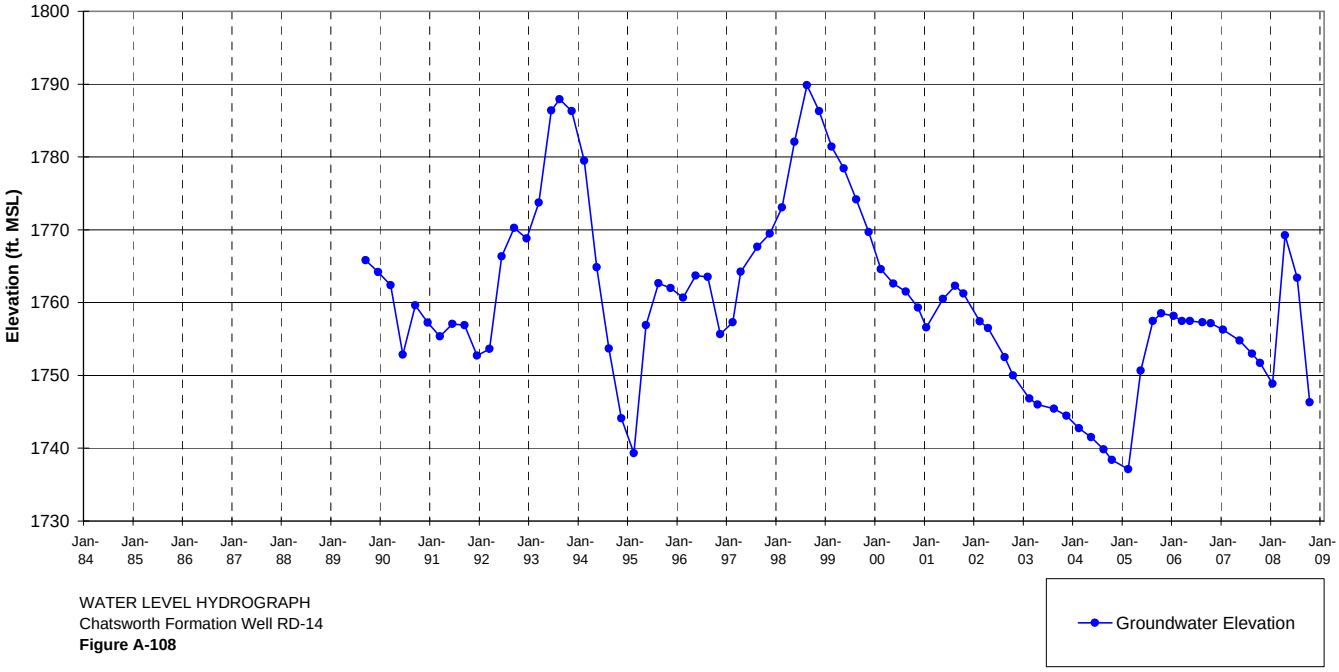
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-11
Figure A-105



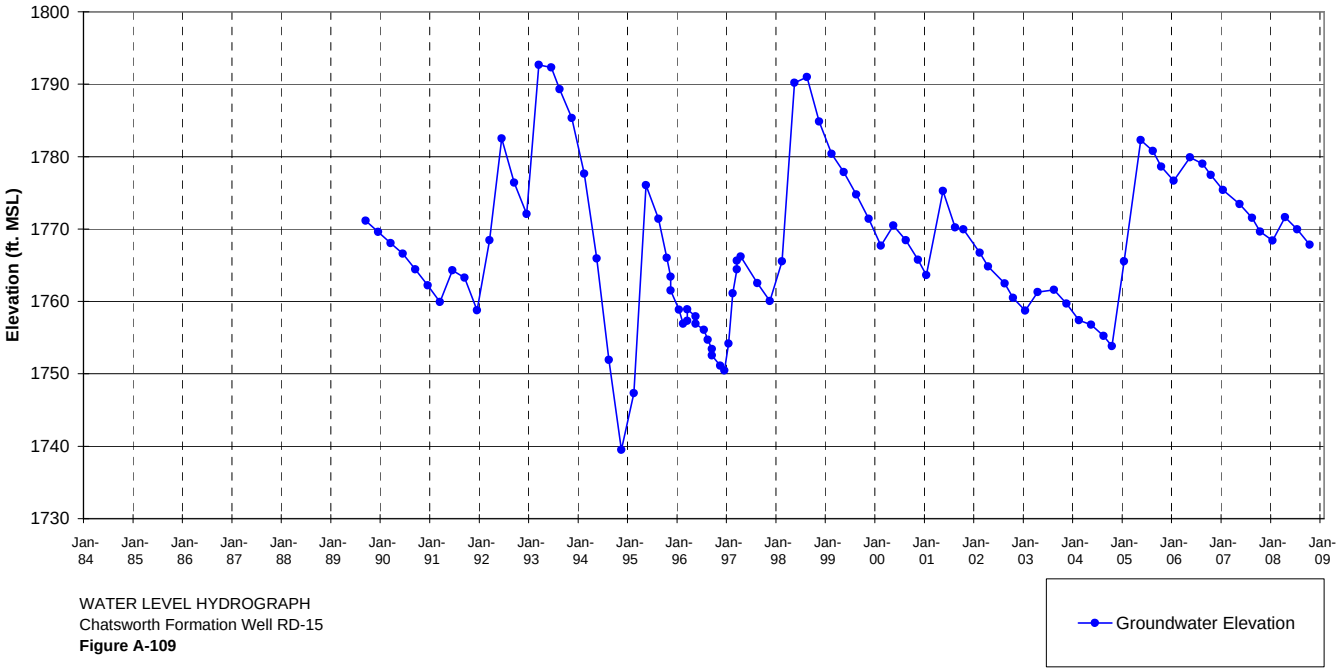
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-12
Figure A-106



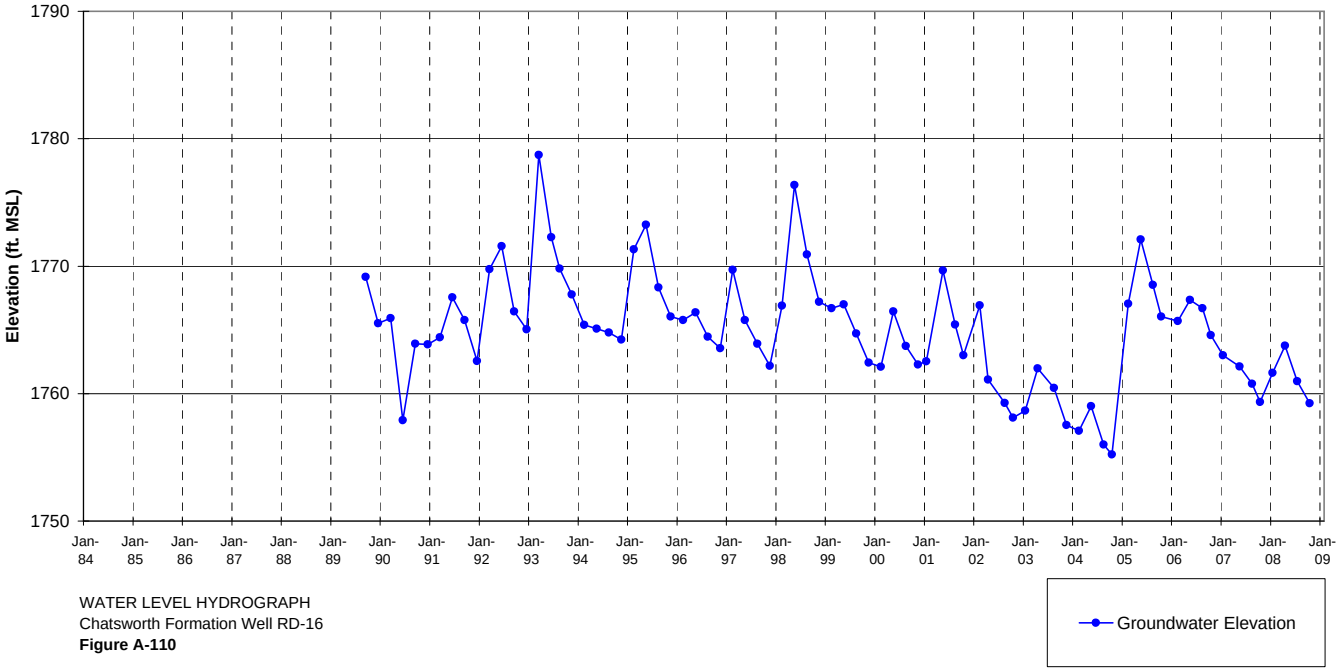
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-13
Figure A-107



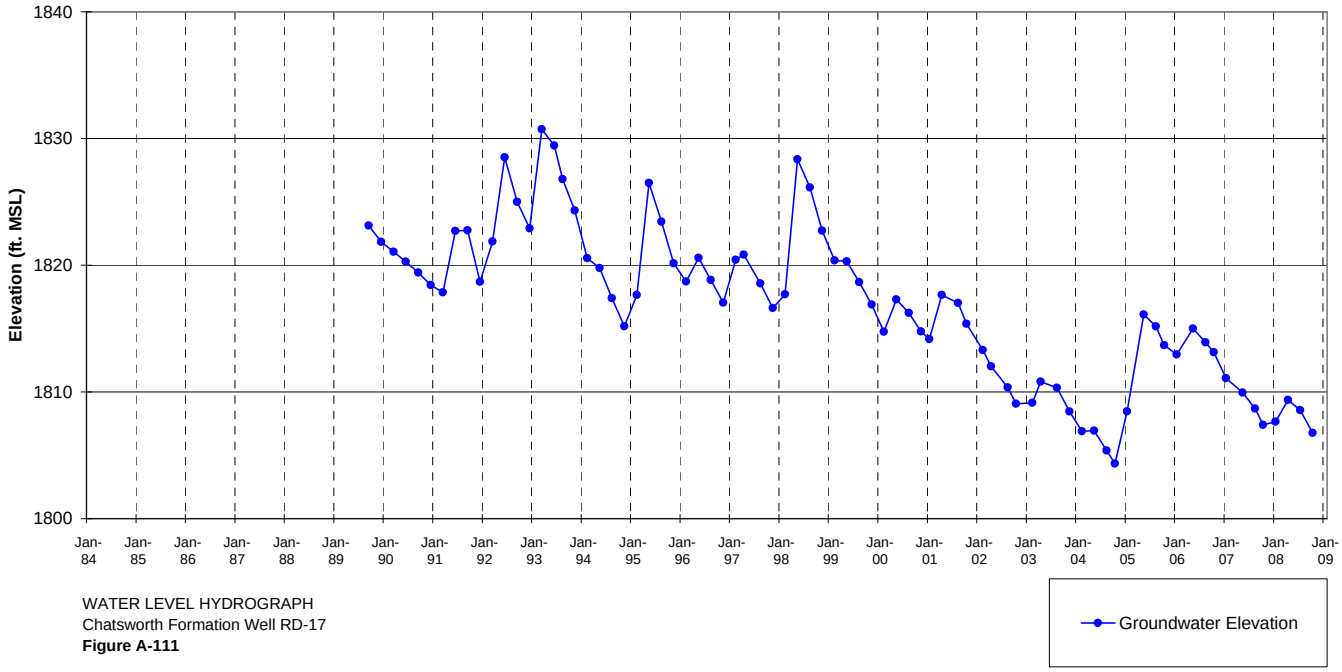
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-14
Figure A-108



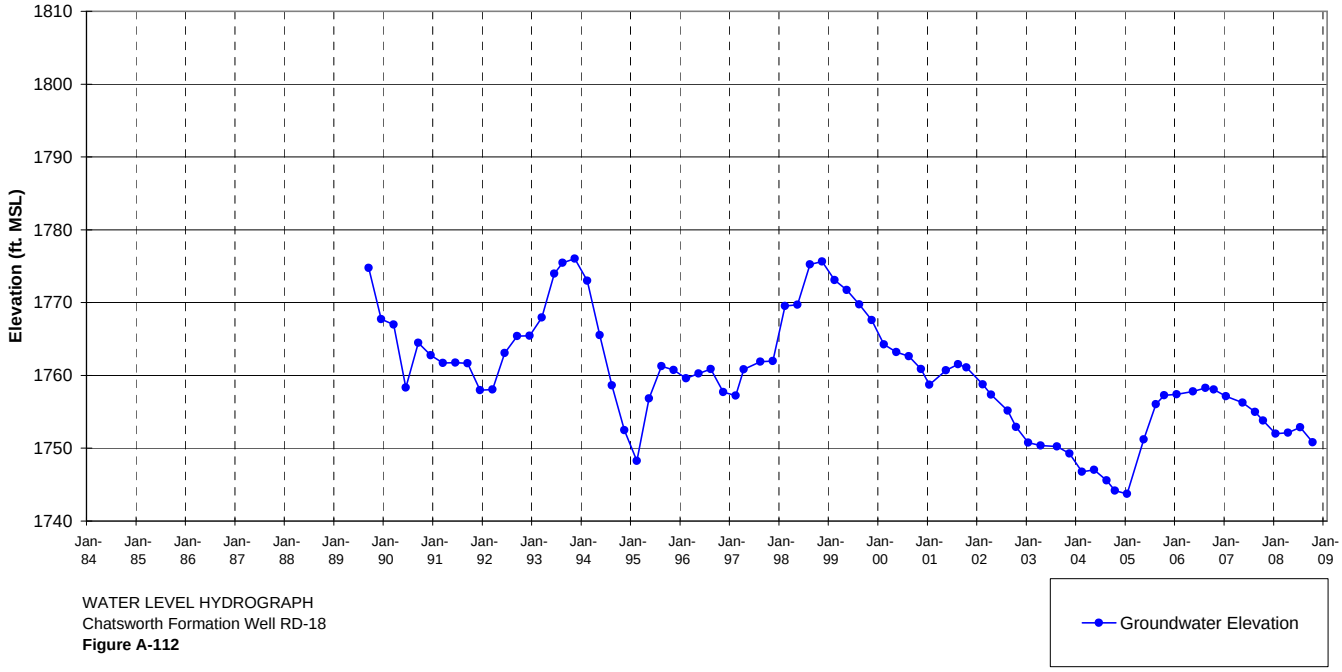
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-15
Figure A-109



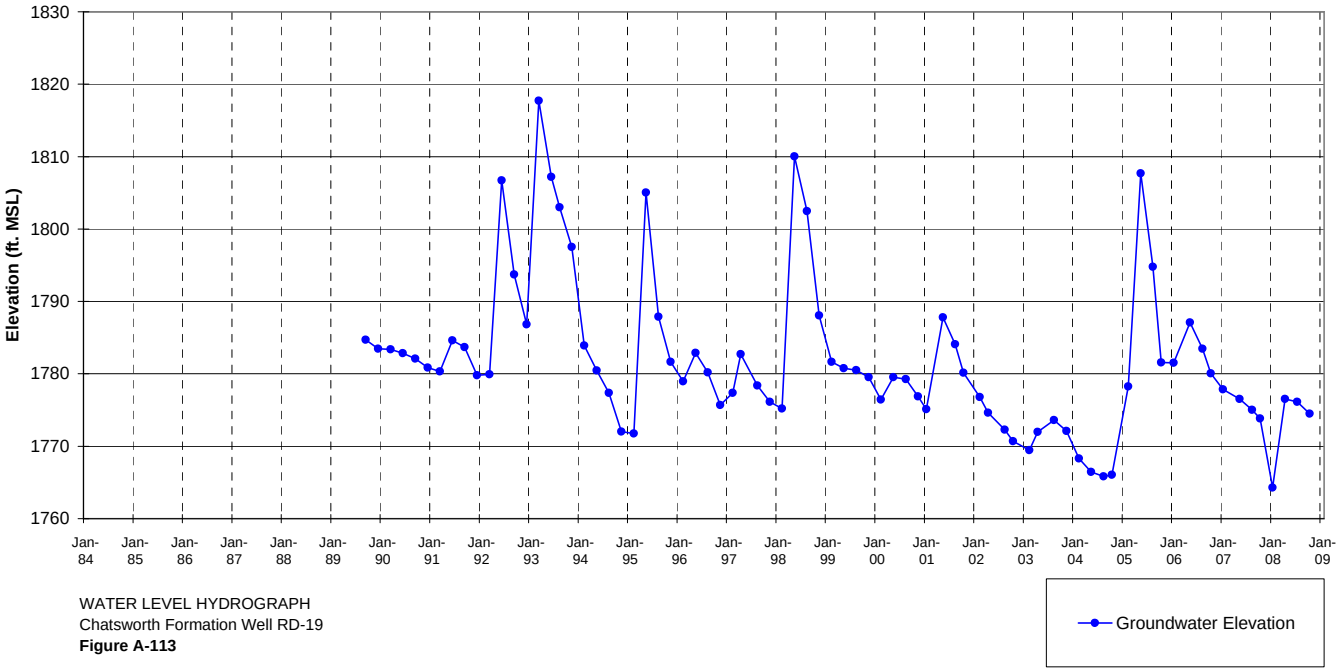
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-16
Figure A-110



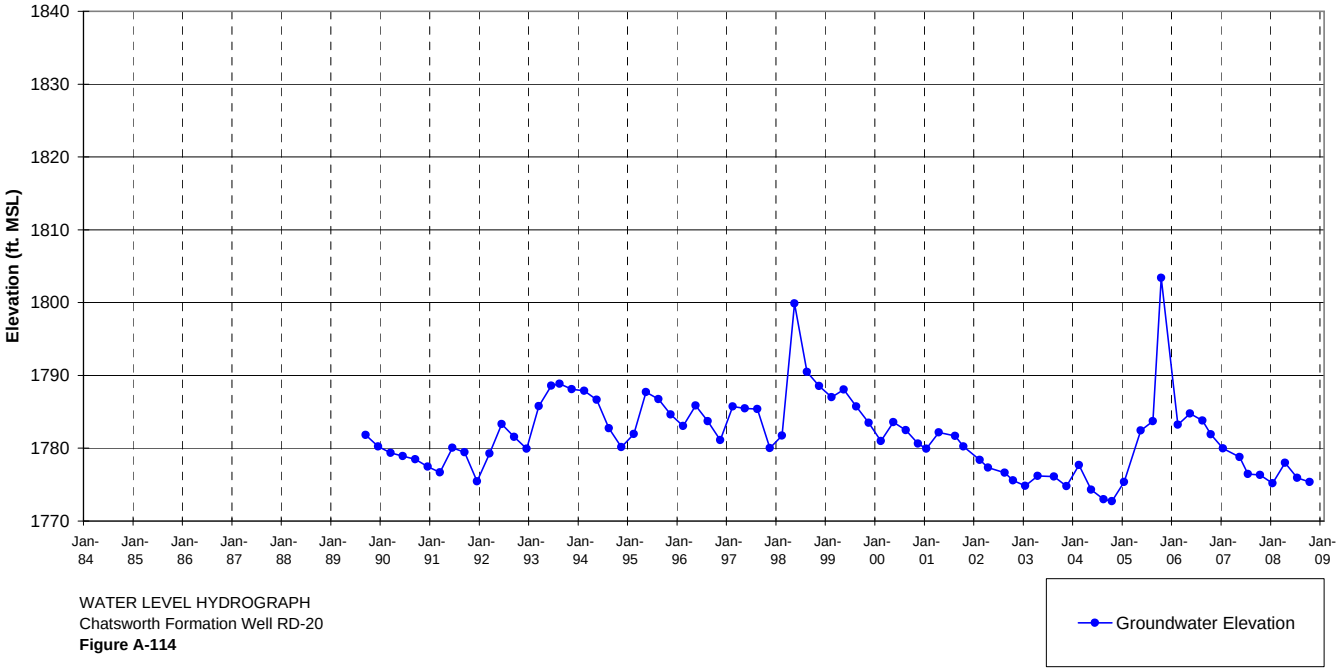
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-17
Figure A-111



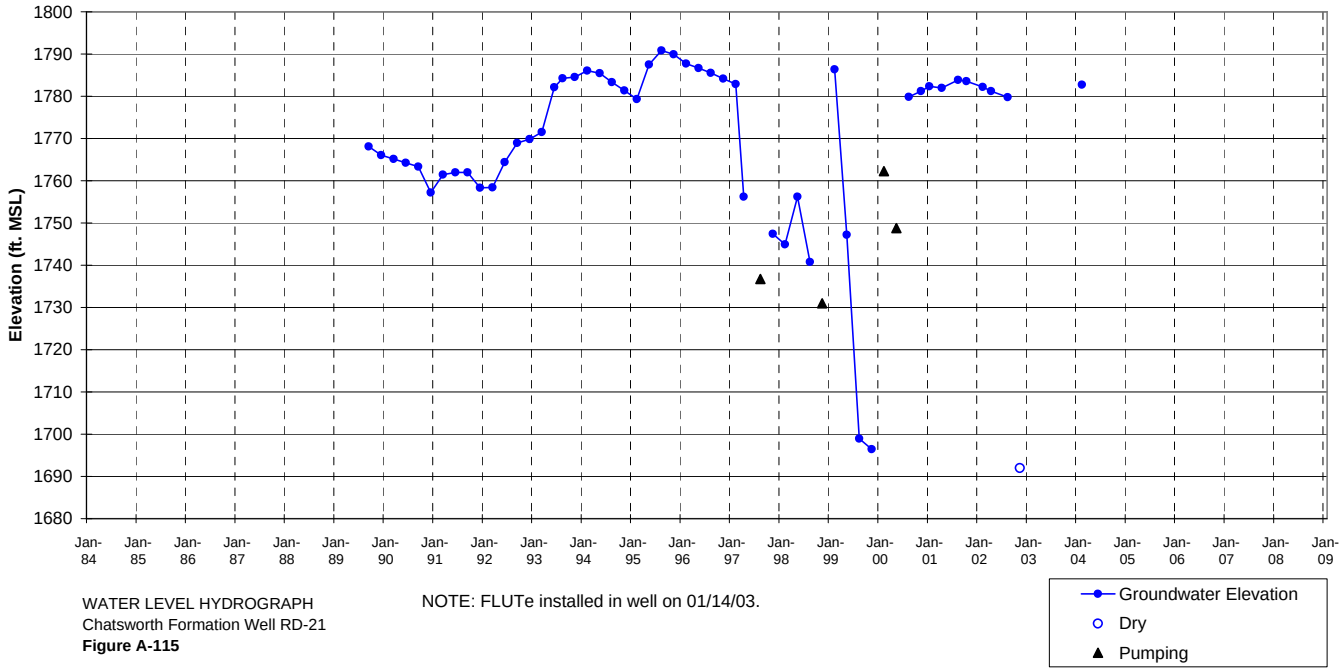
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-18
Figure A-112



WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-19
Figure A-113

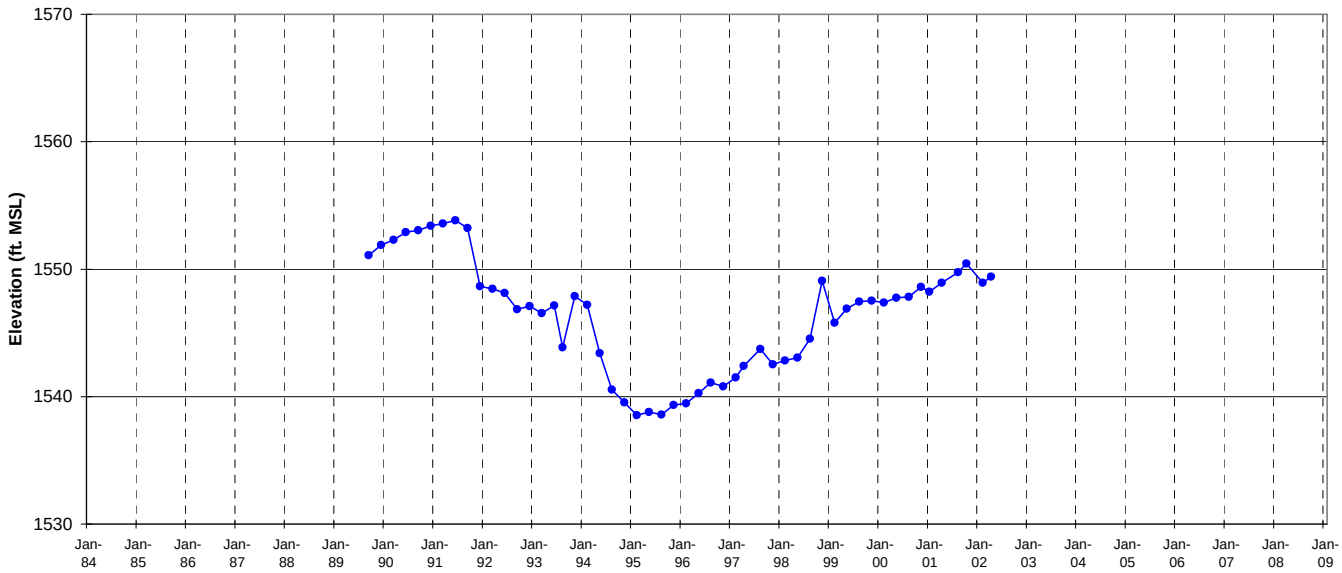


WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-20
Figure A-114



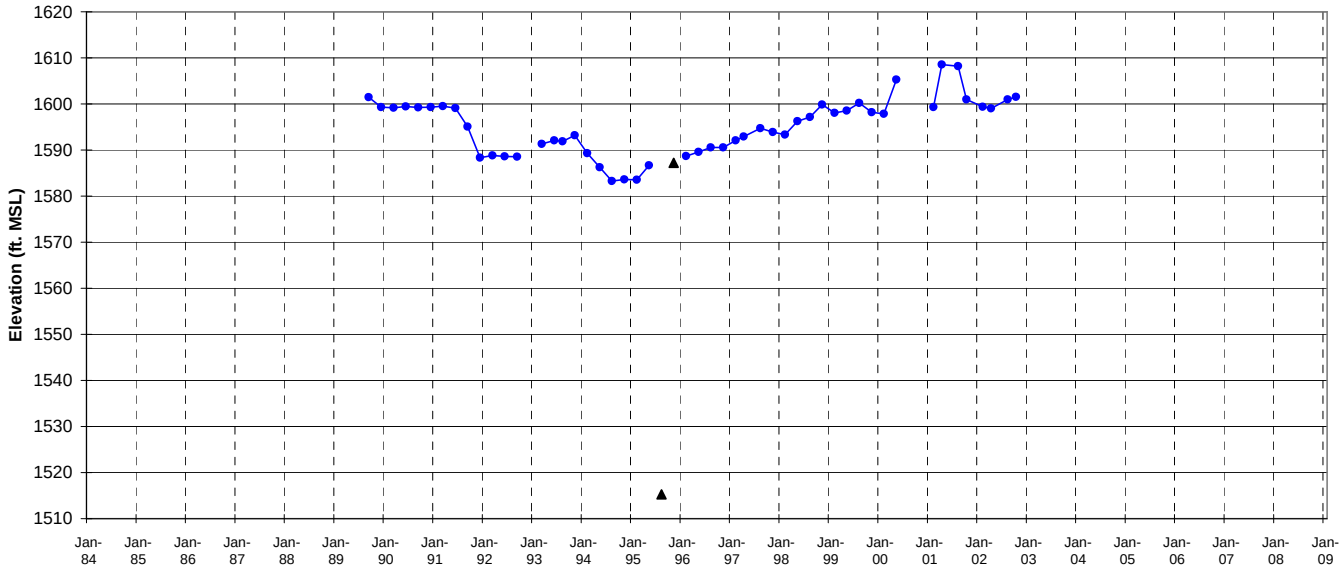
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-21
Figure A-115

NOTE: FLUTe installed in well on 01/14/03.



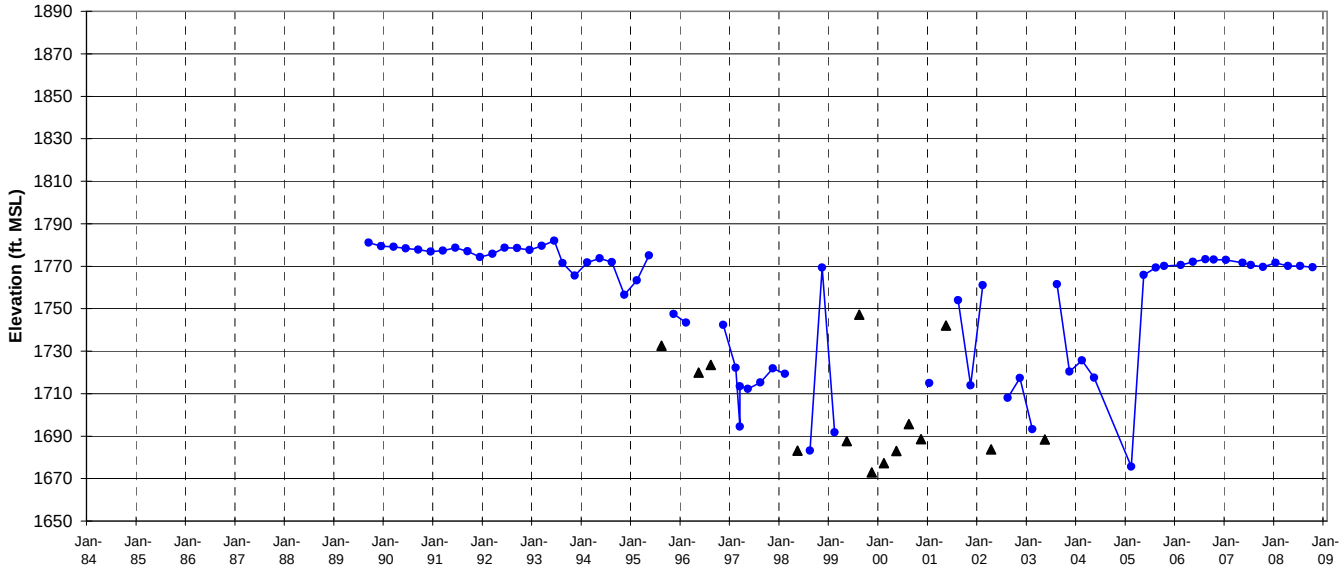
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-22
Figure A-116

NOTE: FLUTe installed in well on 02/18/03.

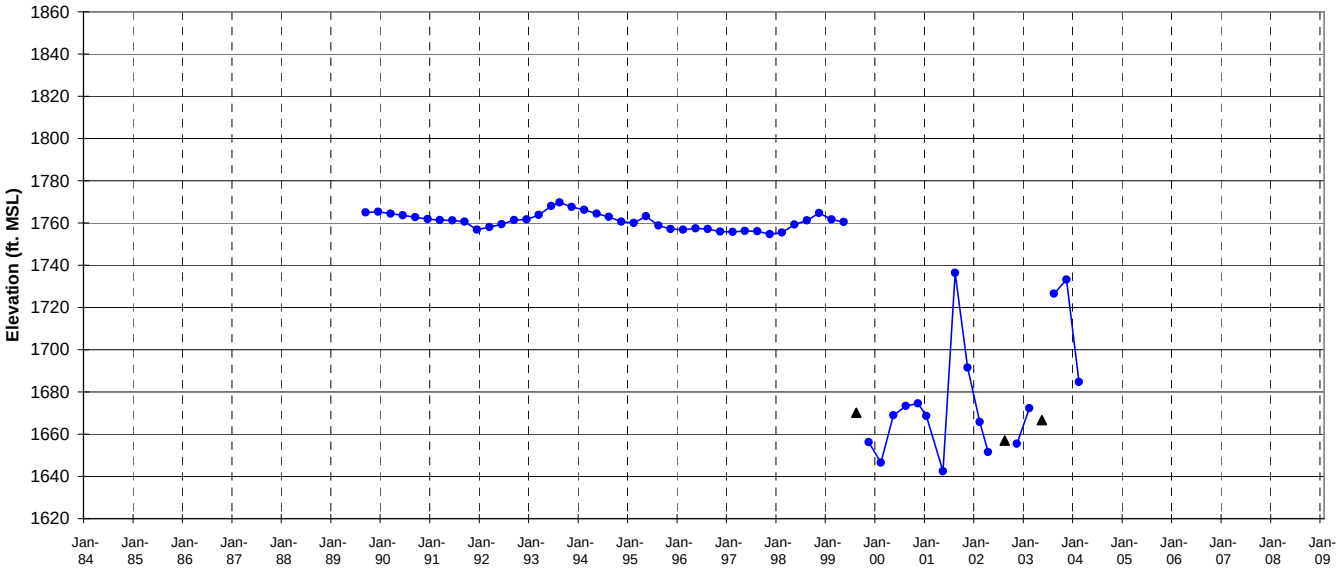


WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-23
Figure A-117

NOTE: FLUTe installed in well on 01/20/03.

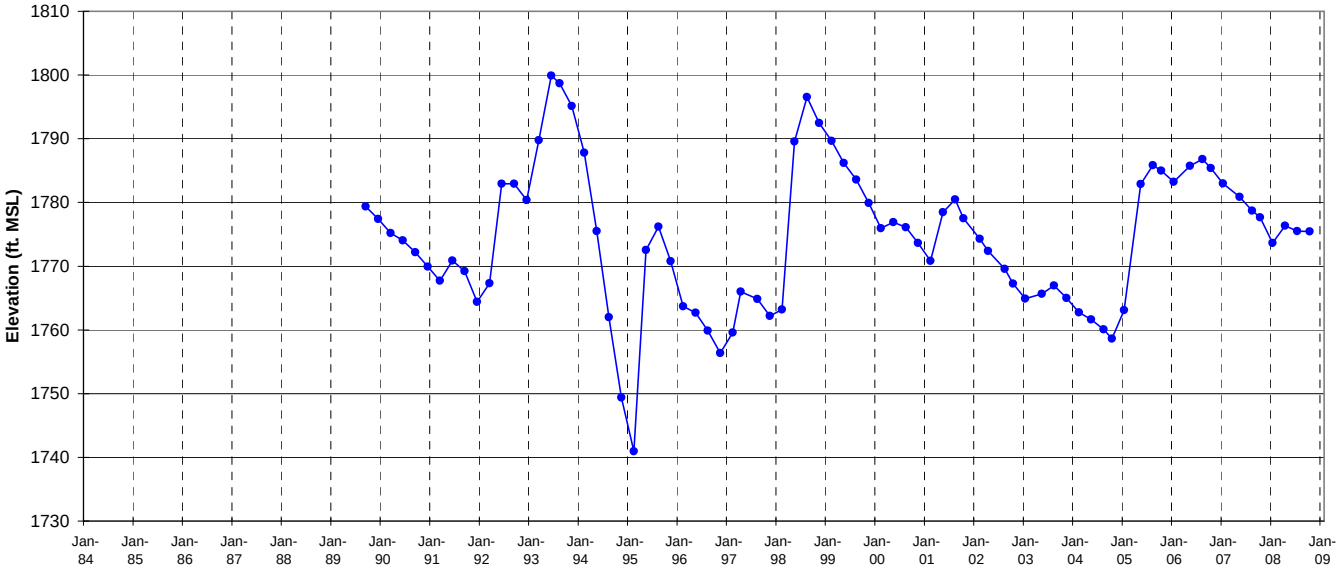


WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-24
Figure A-118

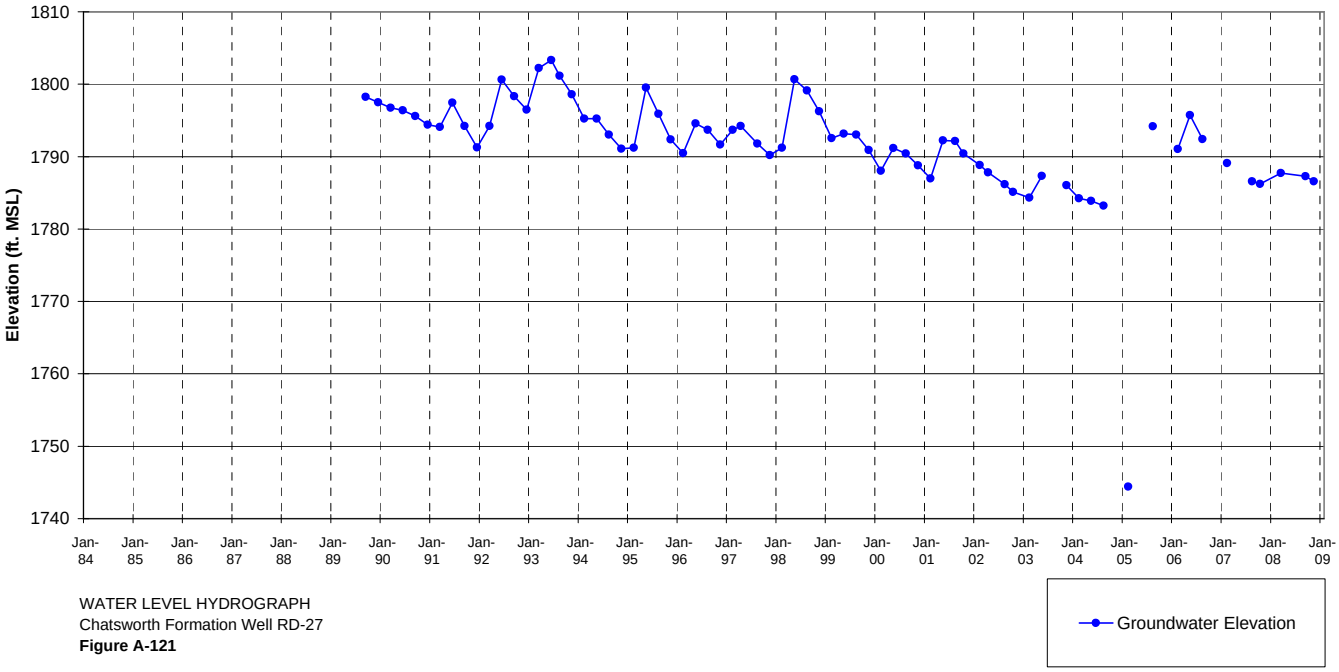


WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-25
Figure A-119

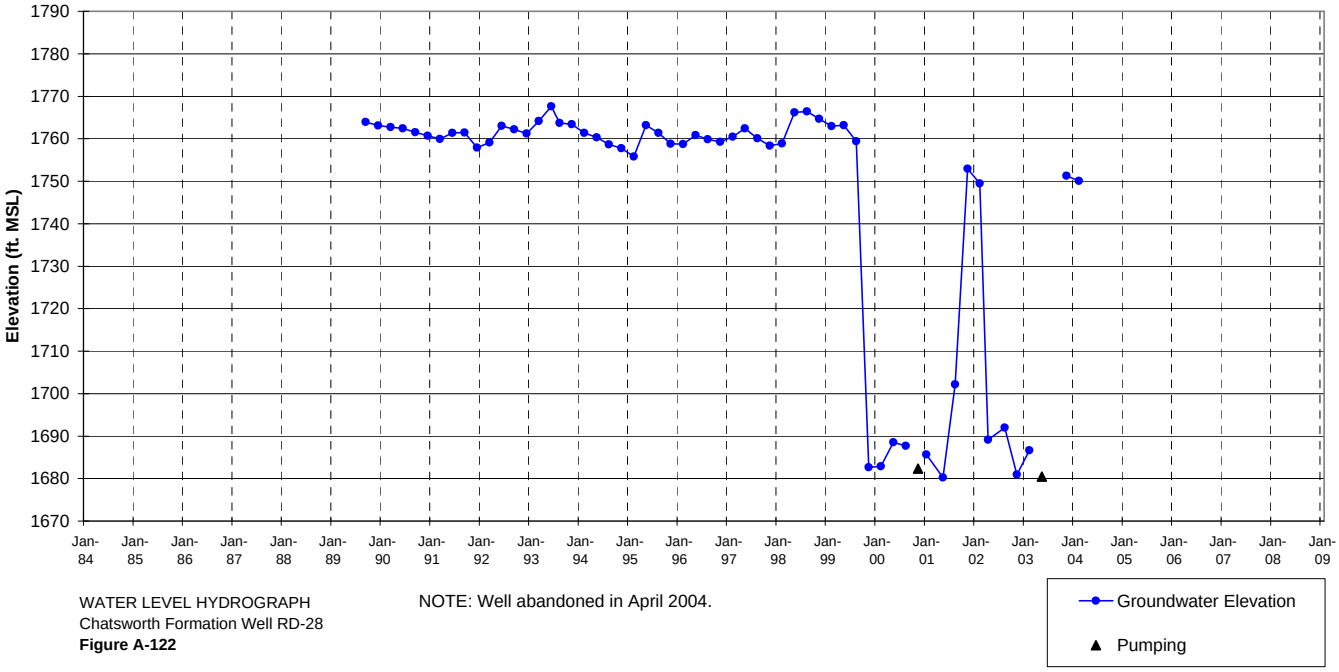
NOTE: Well abandoned in April 2004.



WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-26
Figure A-120

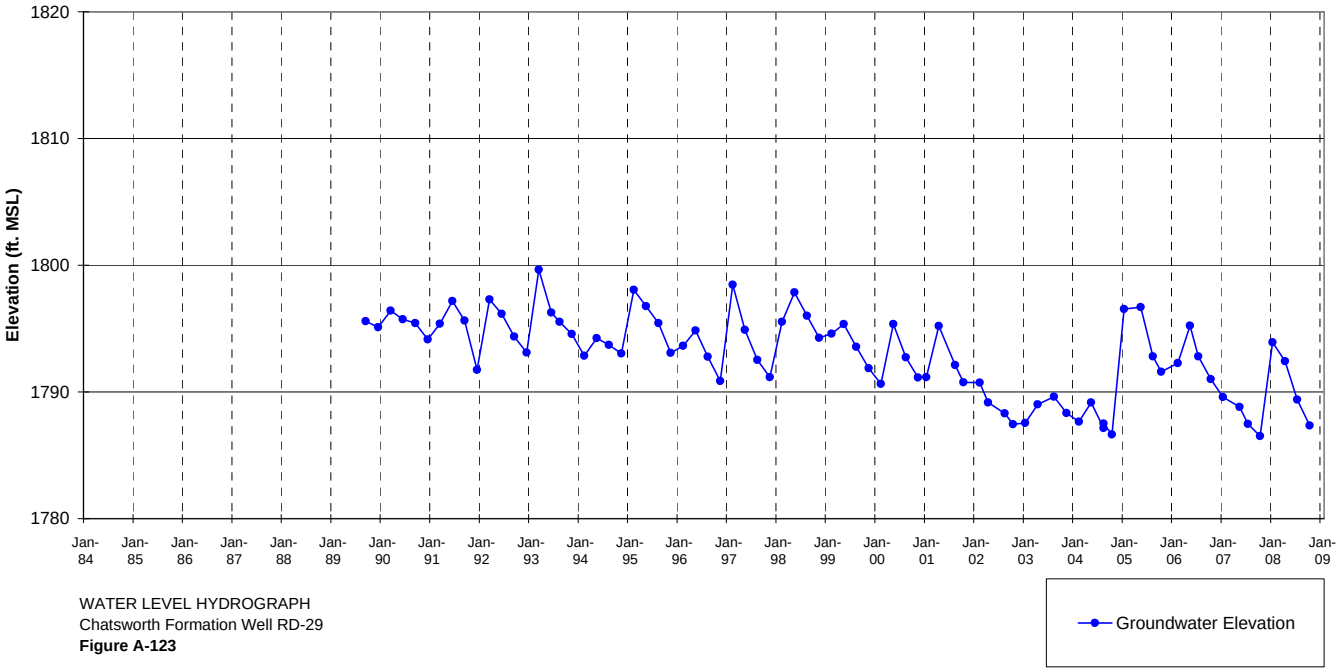


WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-27
Figure A-121

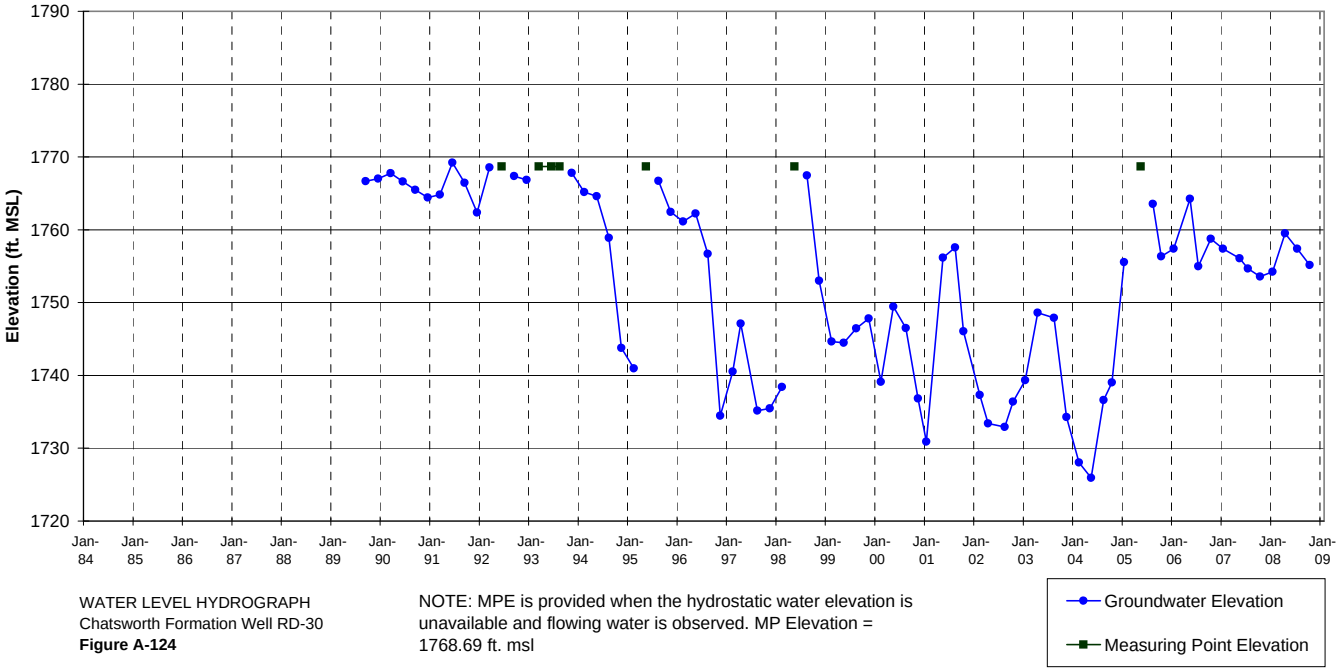


WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-28
Figure A-122

NOTE: Well abandoned in April 2004.

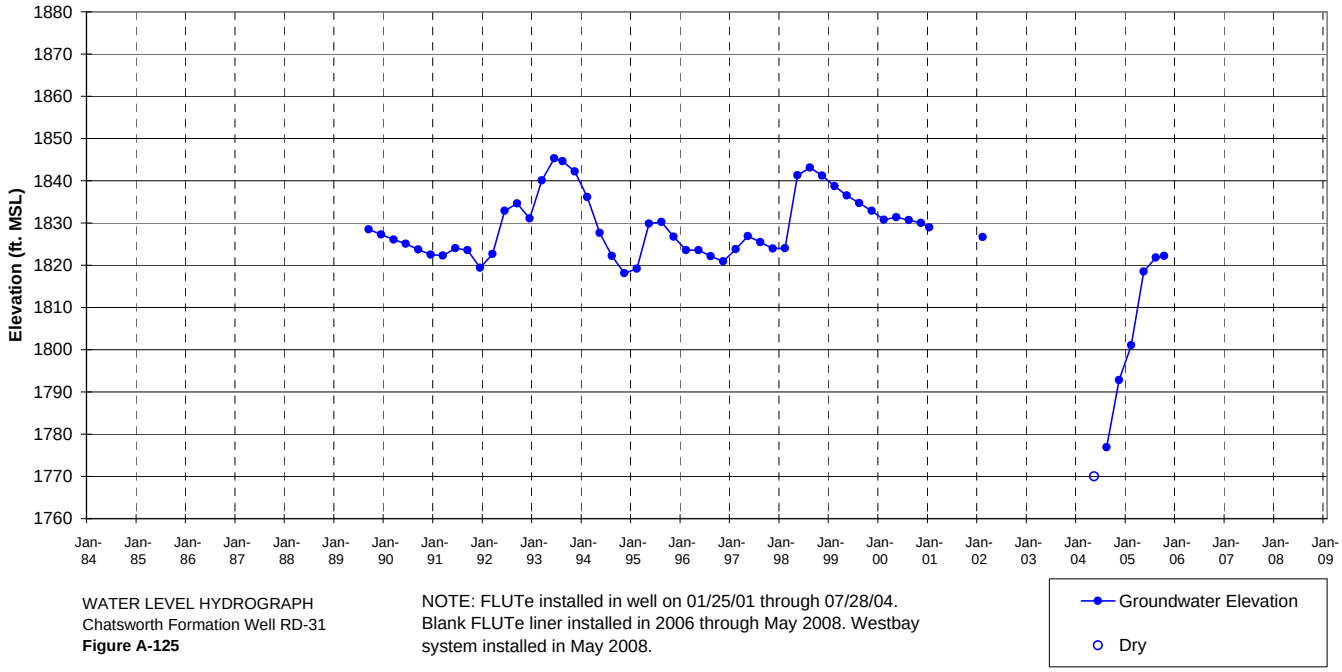


WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-29
Figure A-123



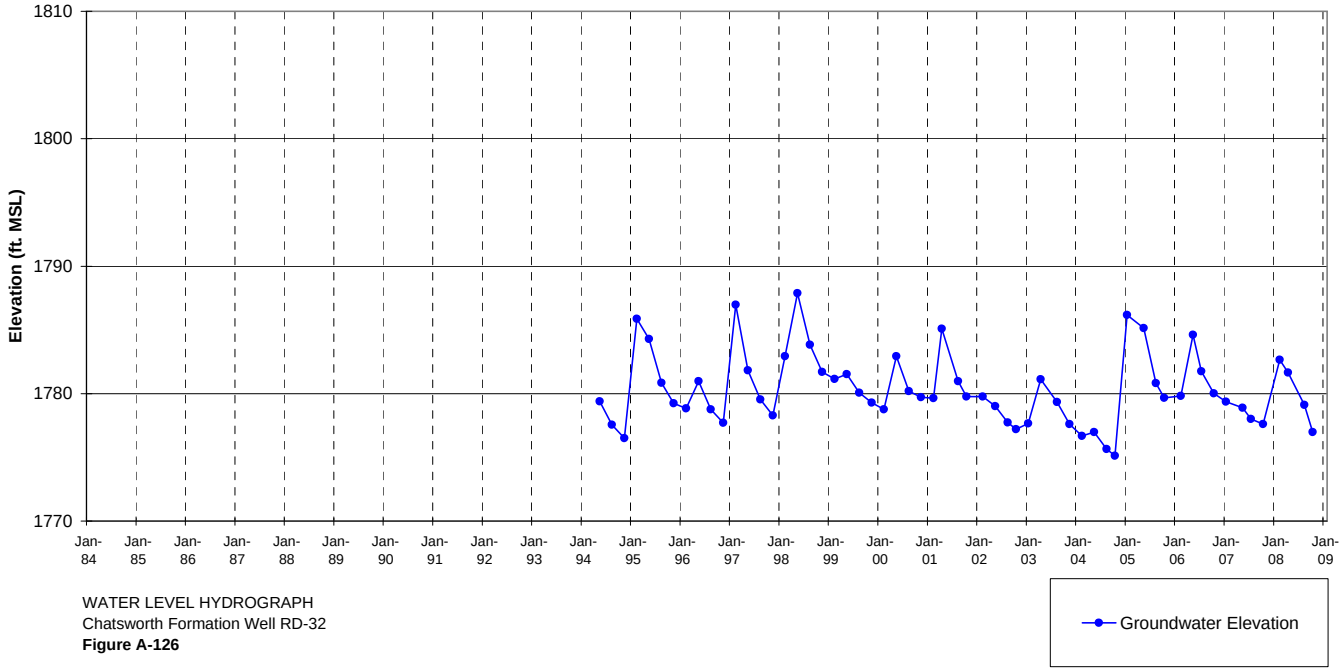
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-30
Figure A-124

NOTE: MPE is provided when the hydrostatic water elevation is unavailable and flowing water is observed. MP Elevation = 1768.69 ft. msl

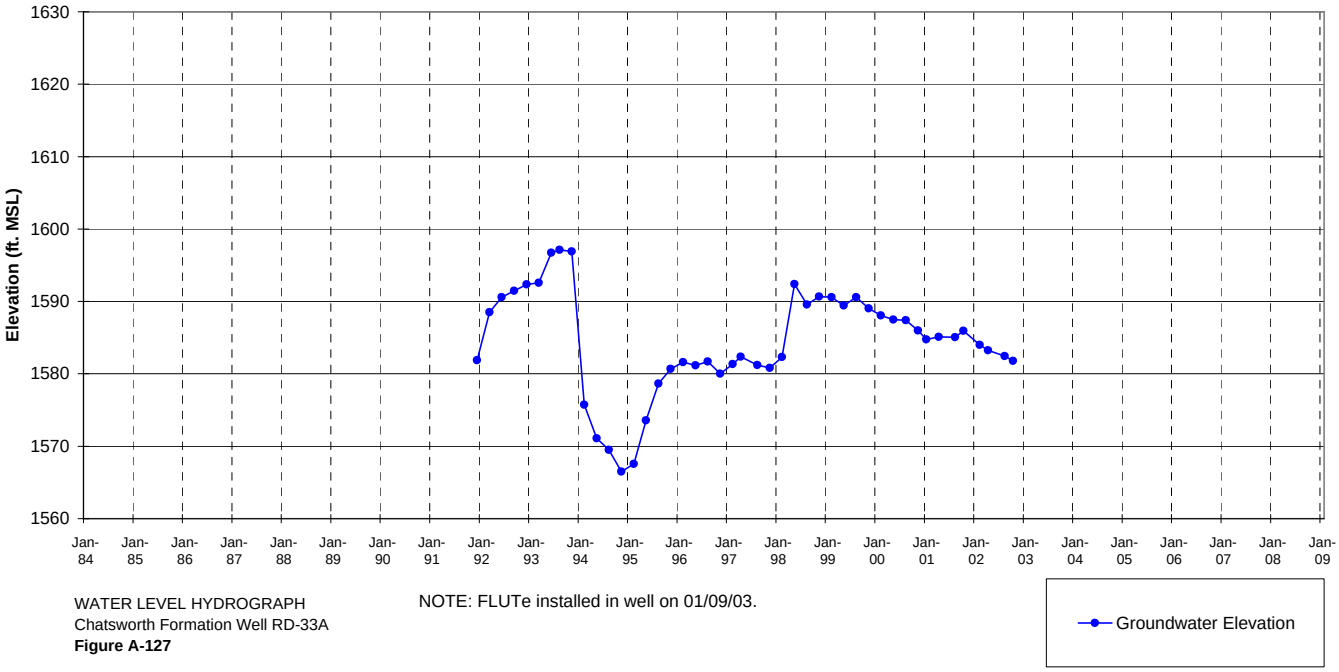


WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-31
Figure A-125

NOTE: FLUTe installed in well on 01/25/01 through 07/28/04. Blank FLUTe liner installed in 2006 through May 2008. Westbay system installed in May 2008.

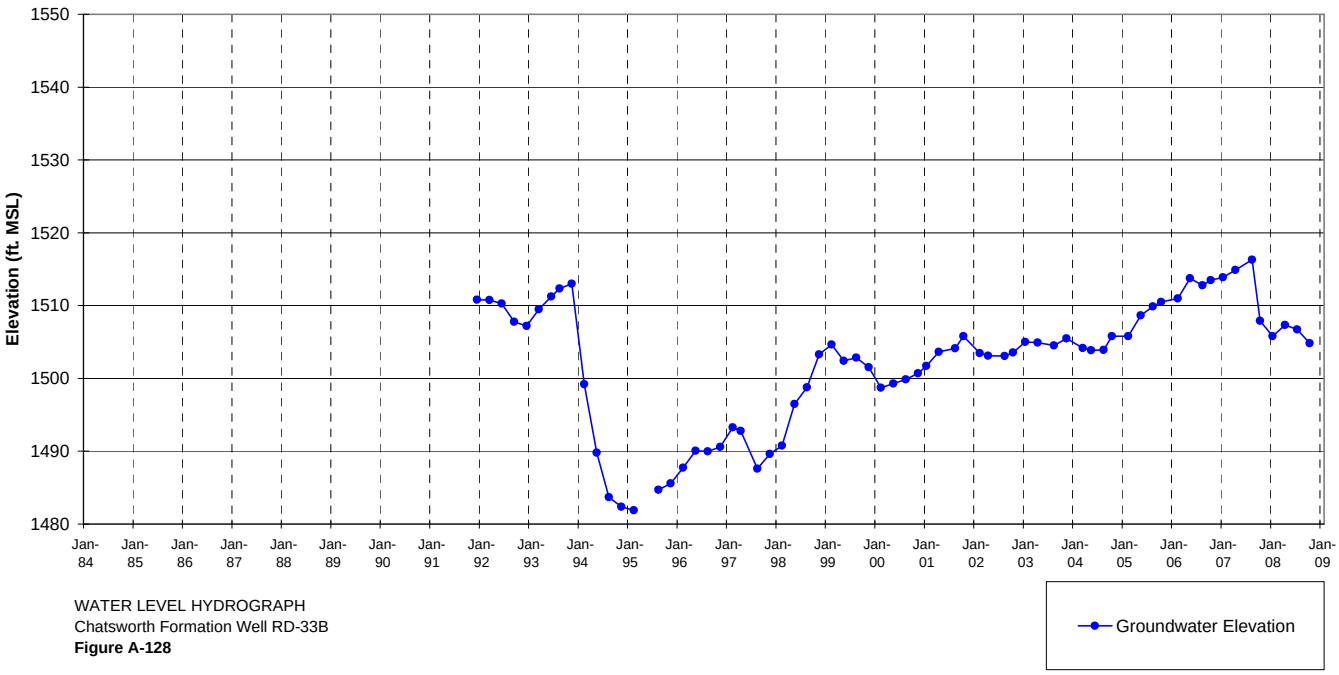


WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-32
Figure A-126

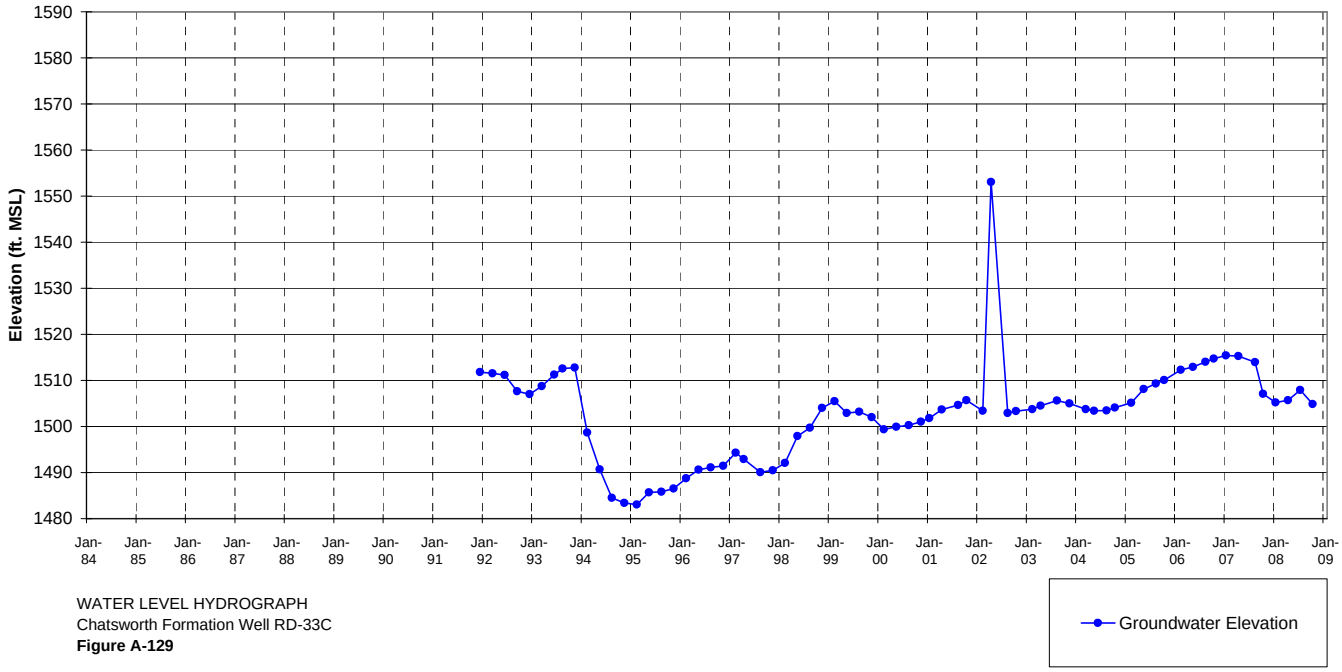


WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-33A
Figure A-127

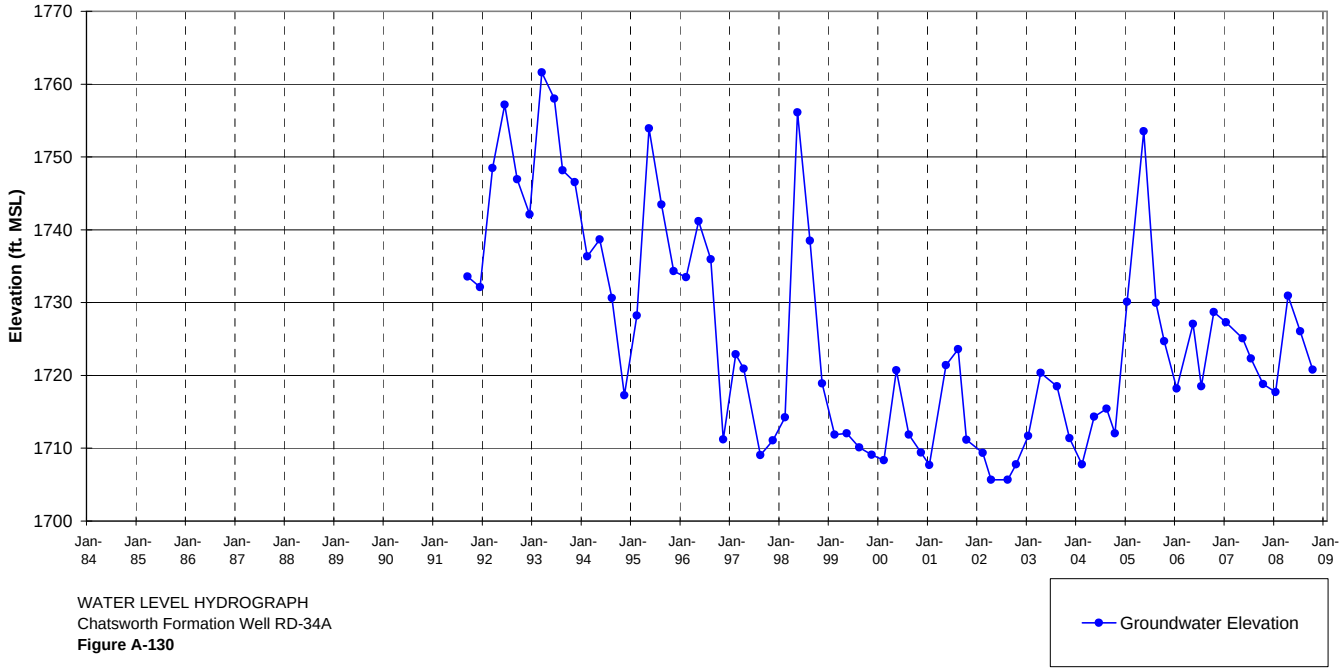
NOTE: FLUTe installed in well on 01/09/03.



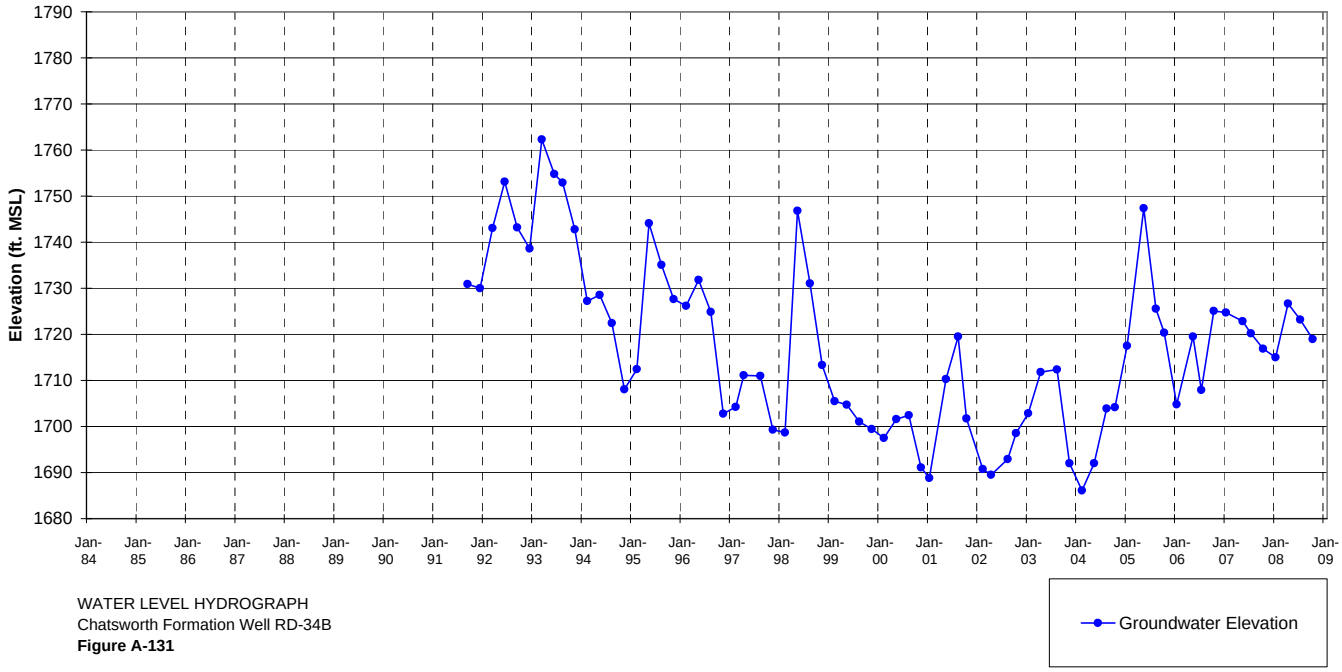
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-33B
Figure A-128



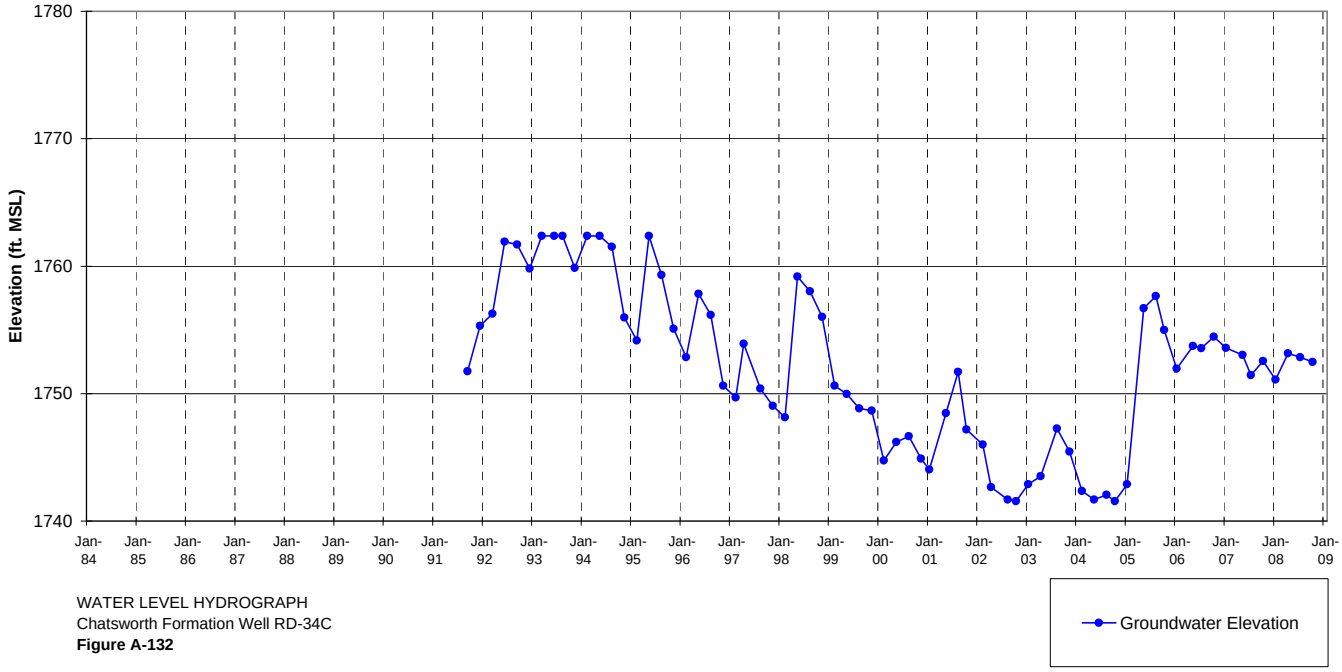
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-33C
Figure A-129



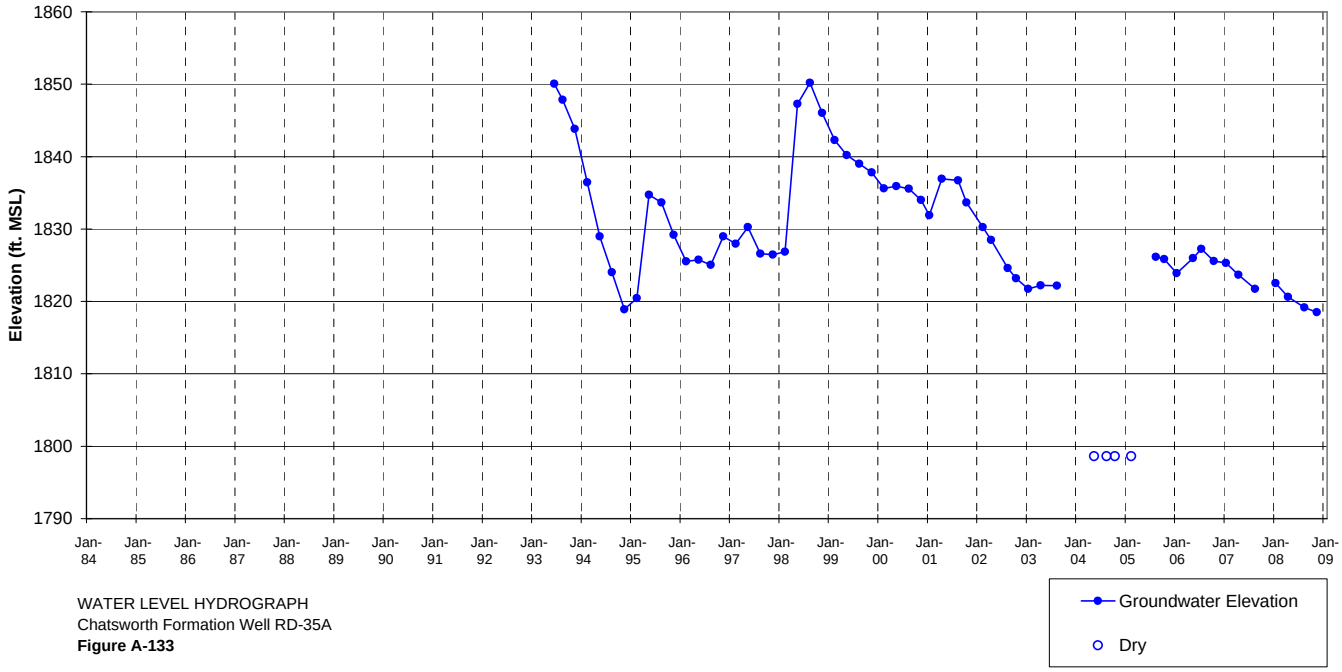
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-34A
Figure A-130



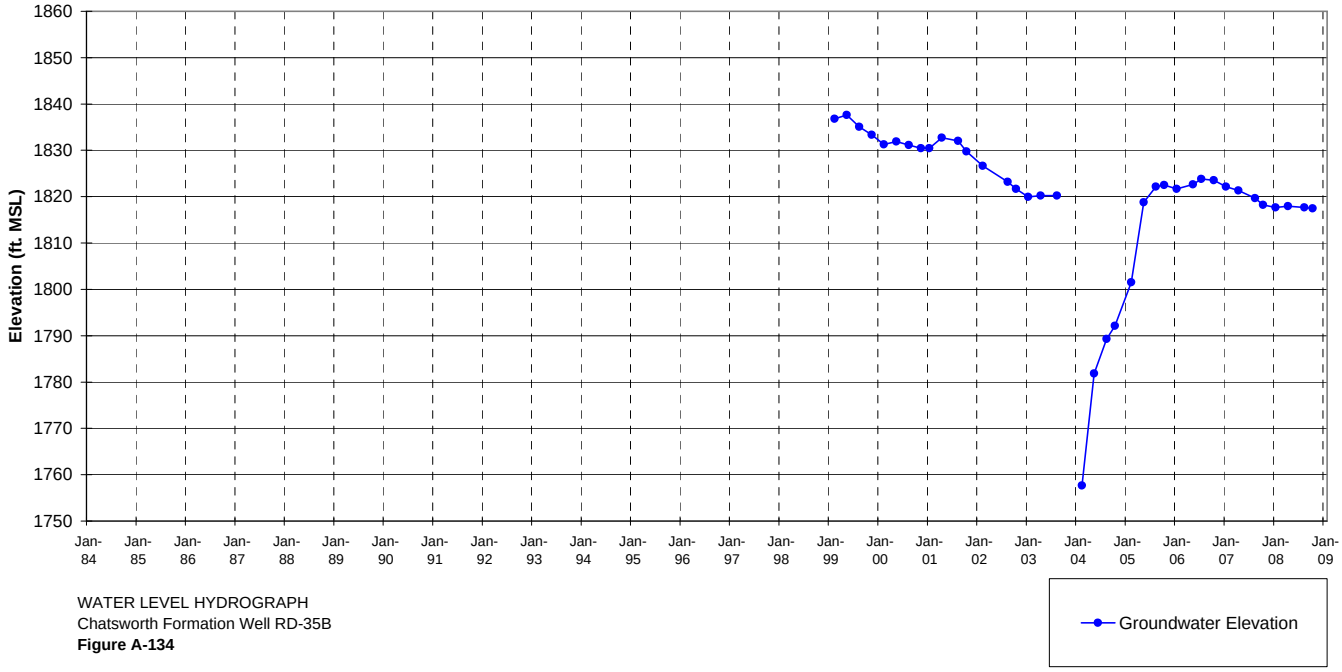
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-34B
Figure A-131



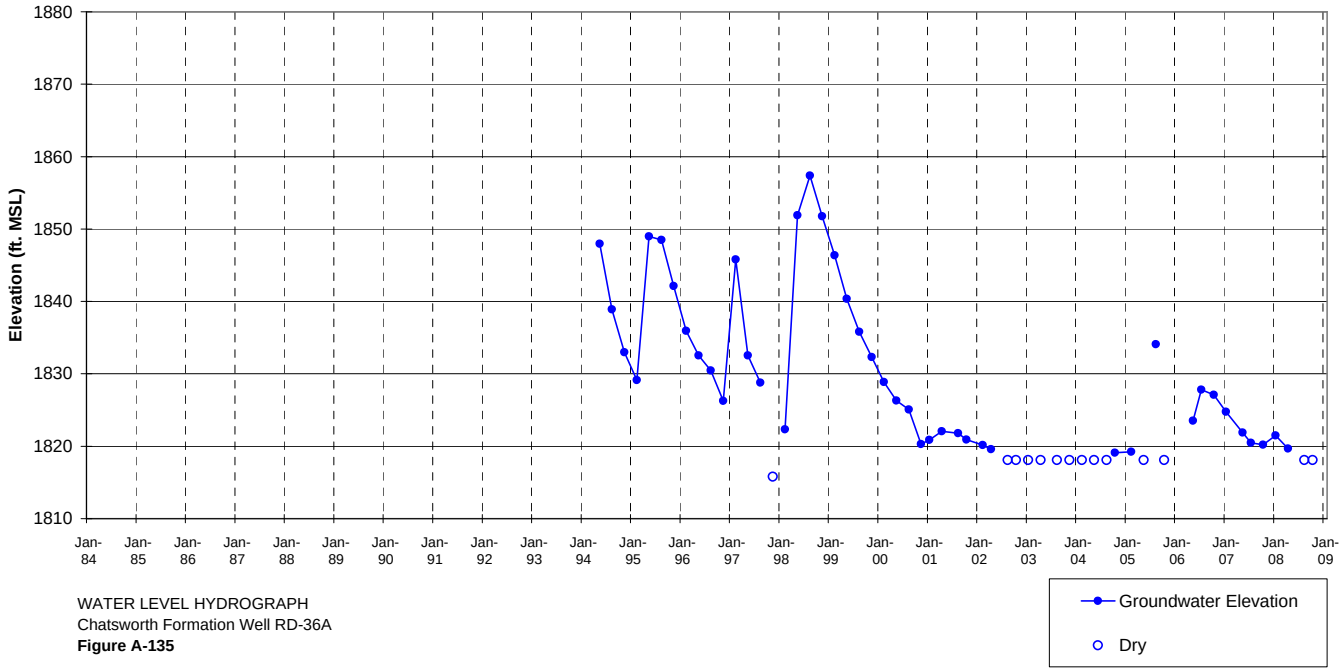
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-34C
Figure A-132



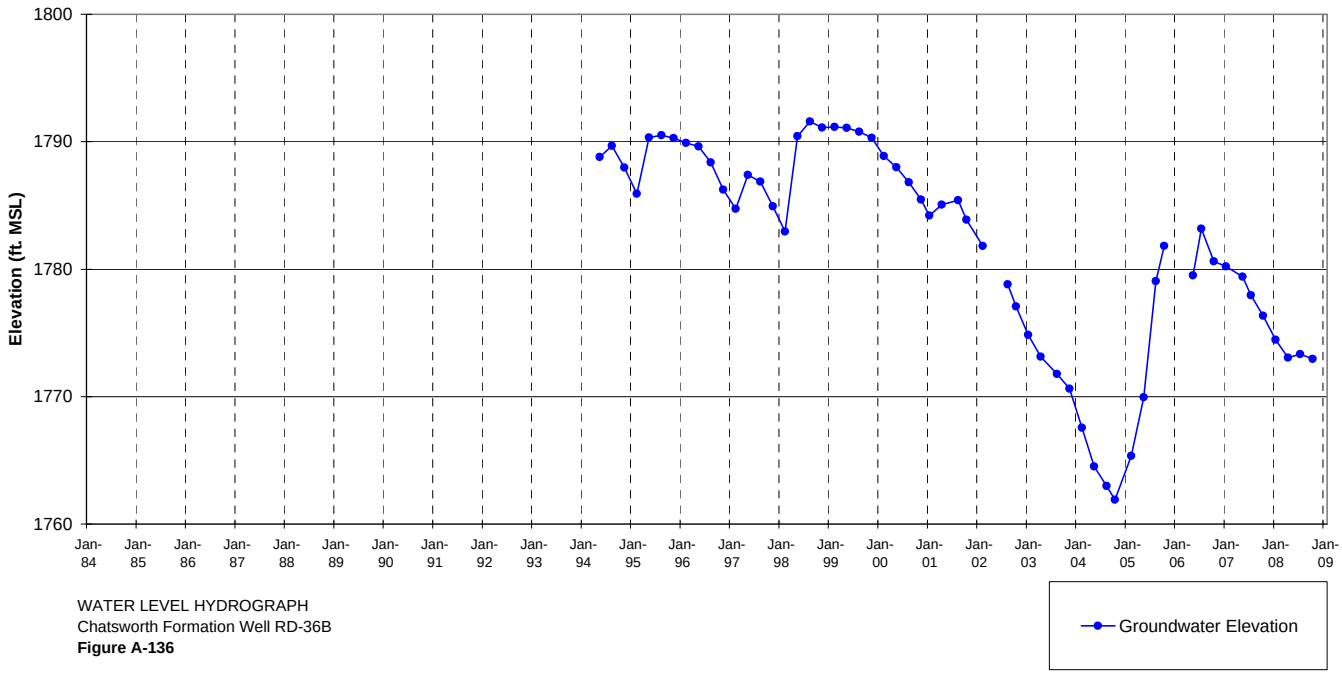
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-35A
Figure A-133



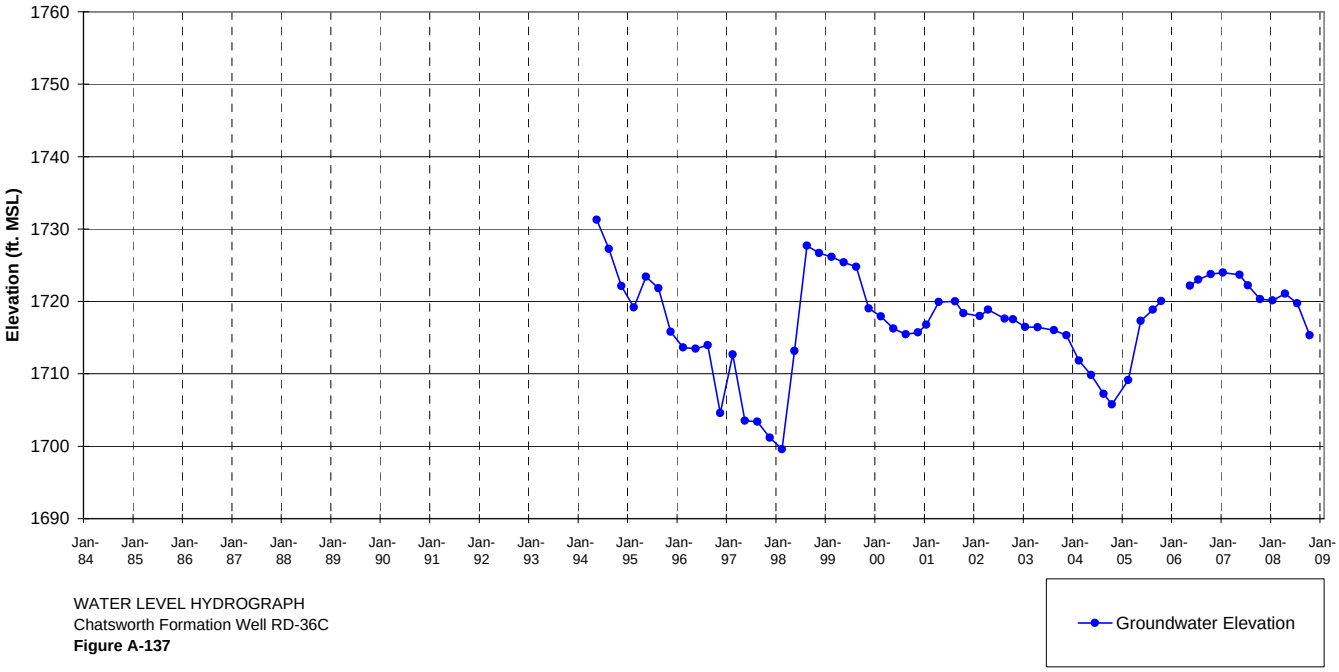
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-35B
Figure A-134



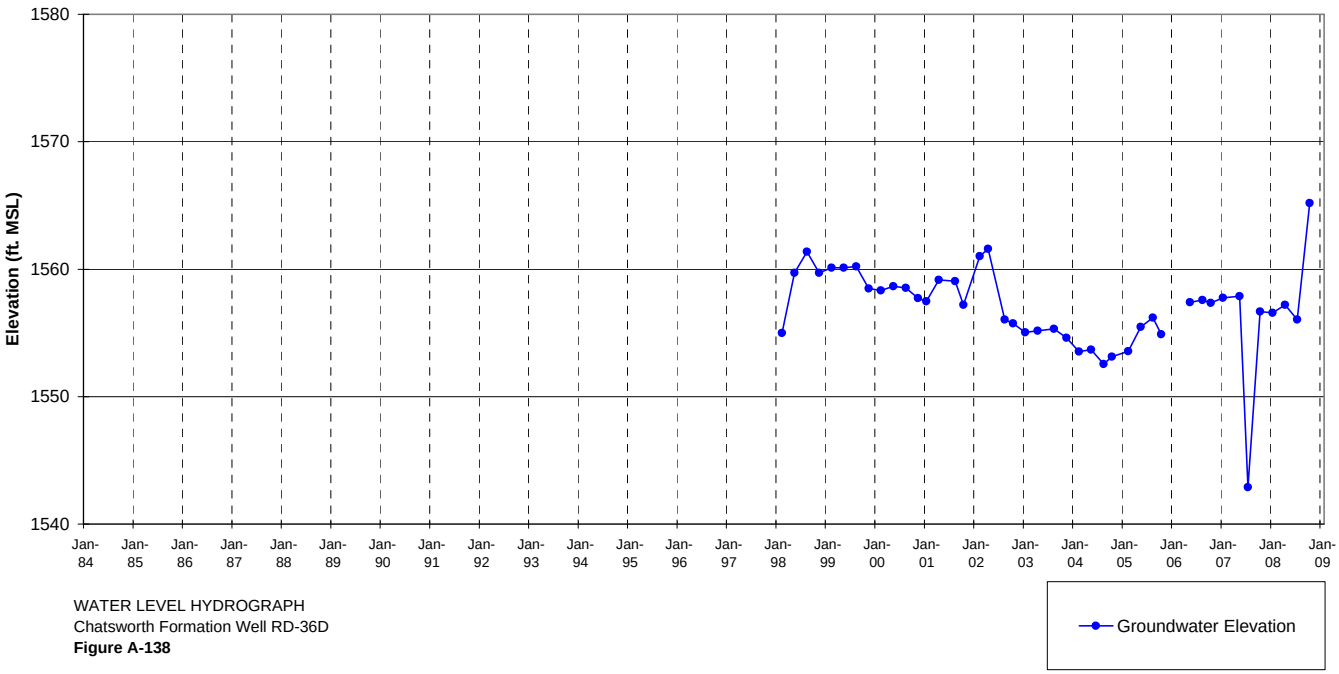
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-36A
Figure A-135



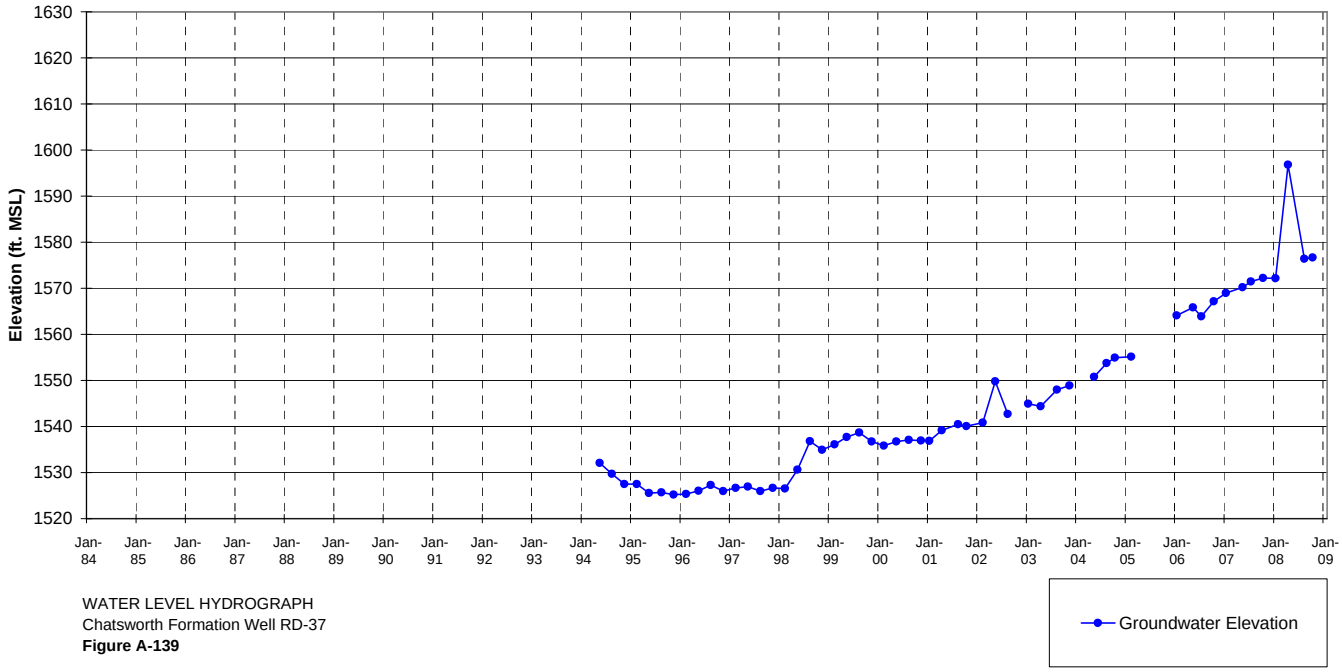
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-36B
Figure A-136



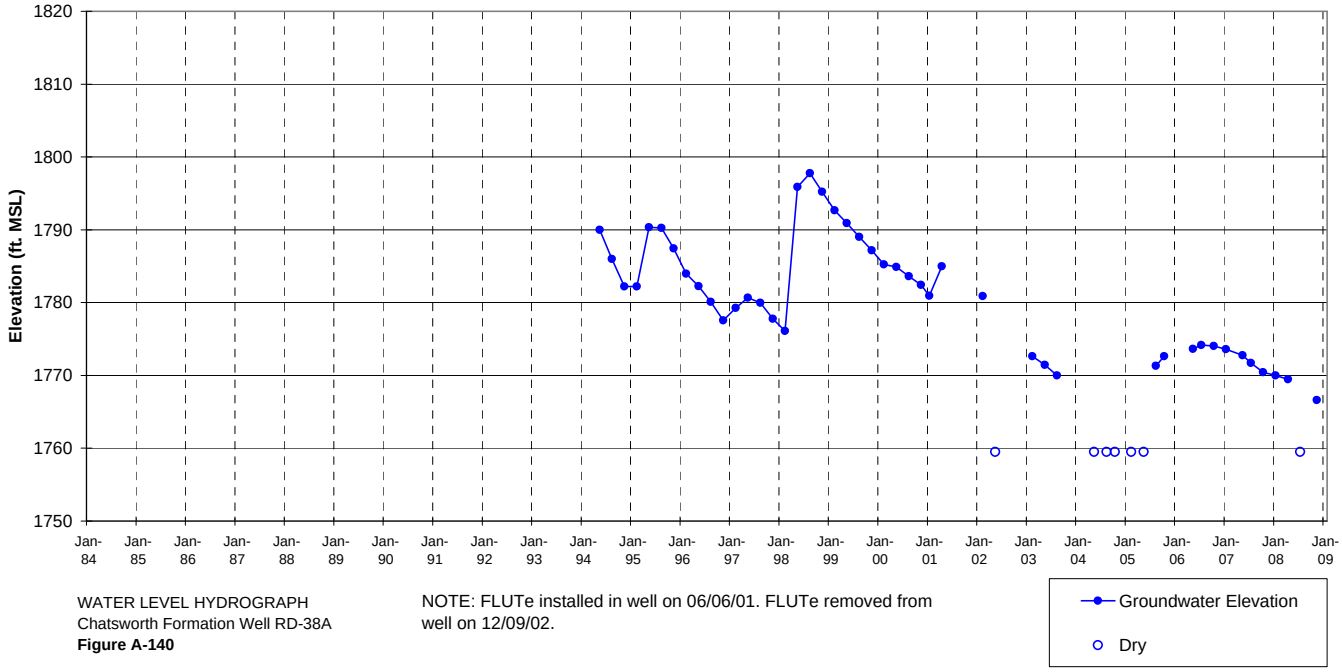
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-36C
Figure A-137



WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-36D
Figure A-138

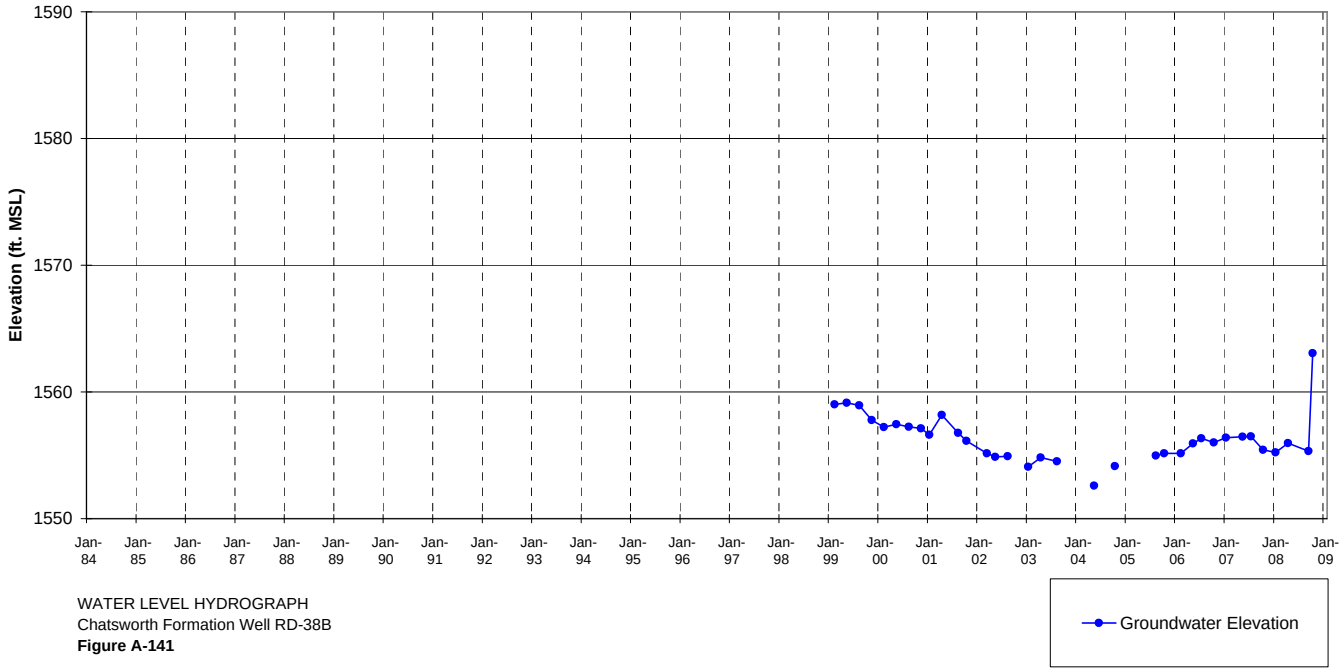


WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-37
Figure A-139

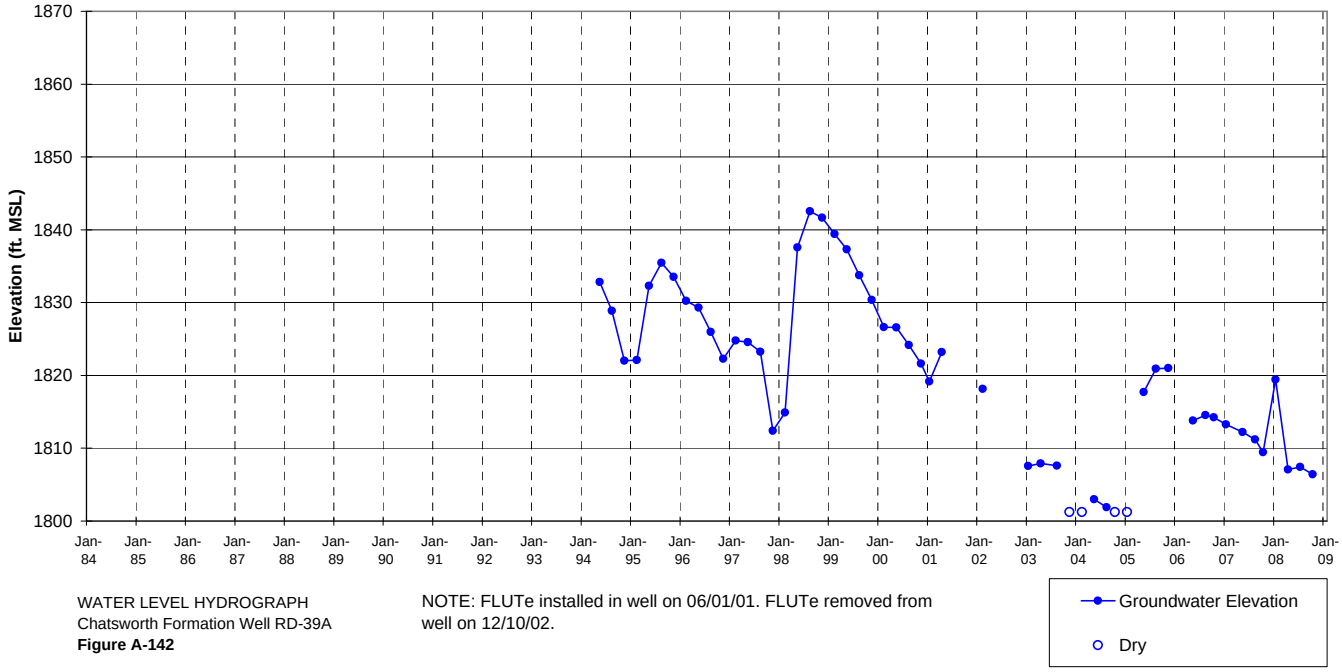


WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-38A
Figure A-140

NOTE: FLUTe installed in well on 06/06/01. FLUTe removed from well on 12/09/02.

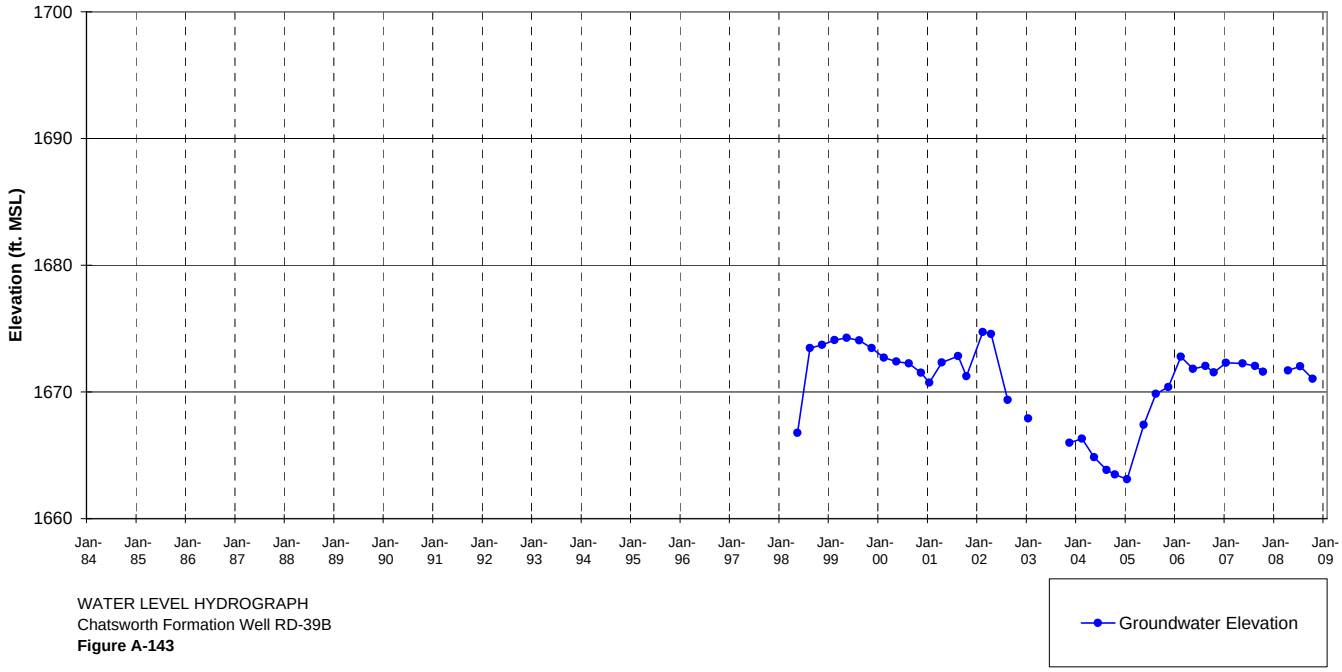


WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-38B
Figure A-141

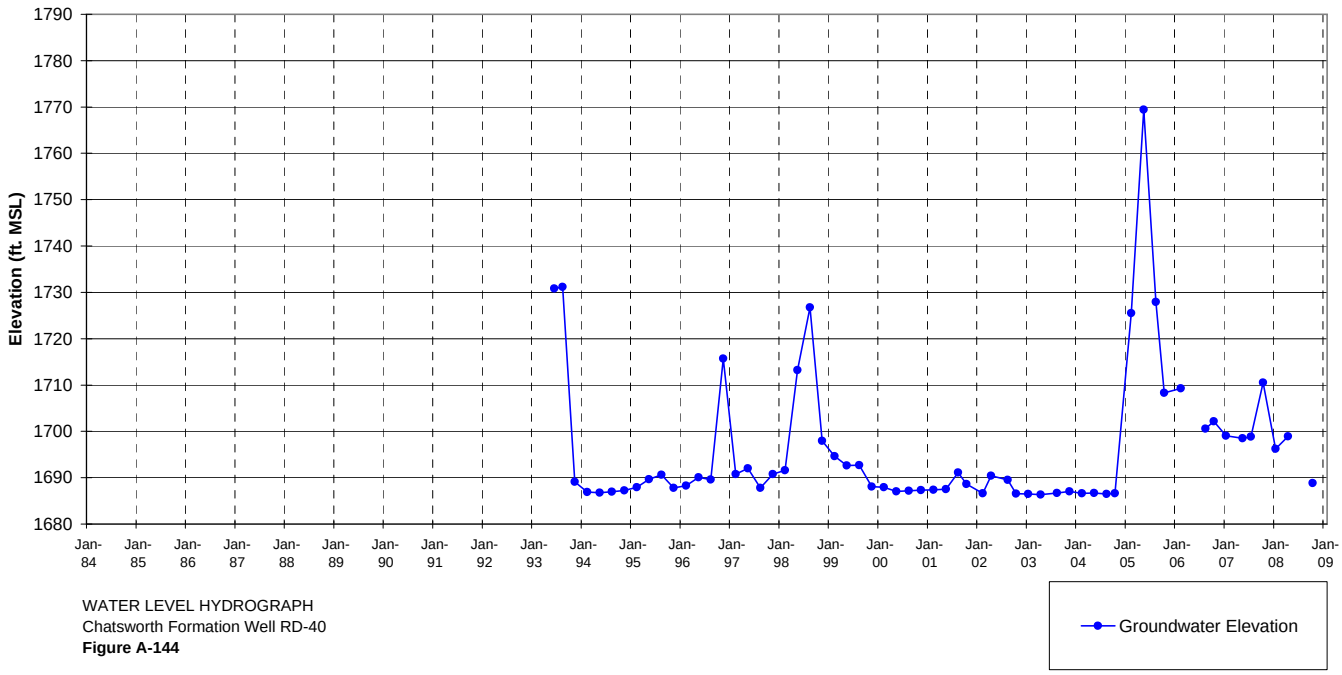


WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-39A
Figure A-142

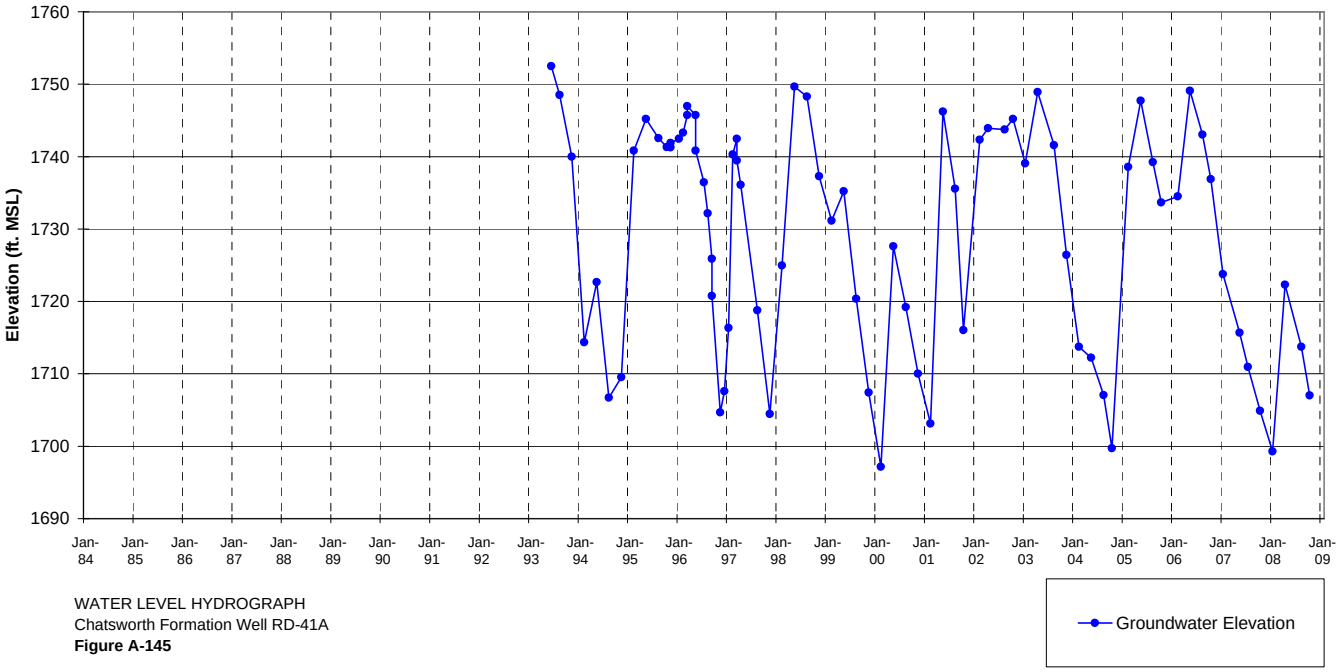
NOTE: FLUTe installed in well on 06/01/01. FLUTe removed from well on 12/10/02.



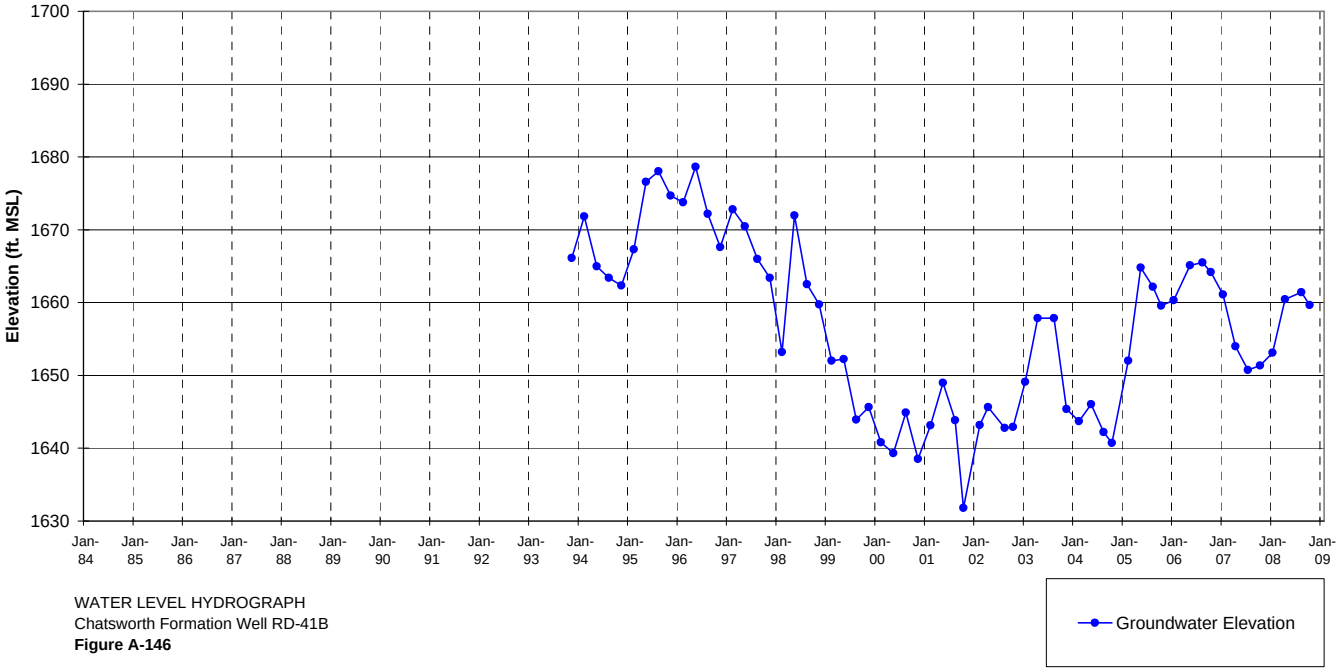
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-39B
Figure A-143



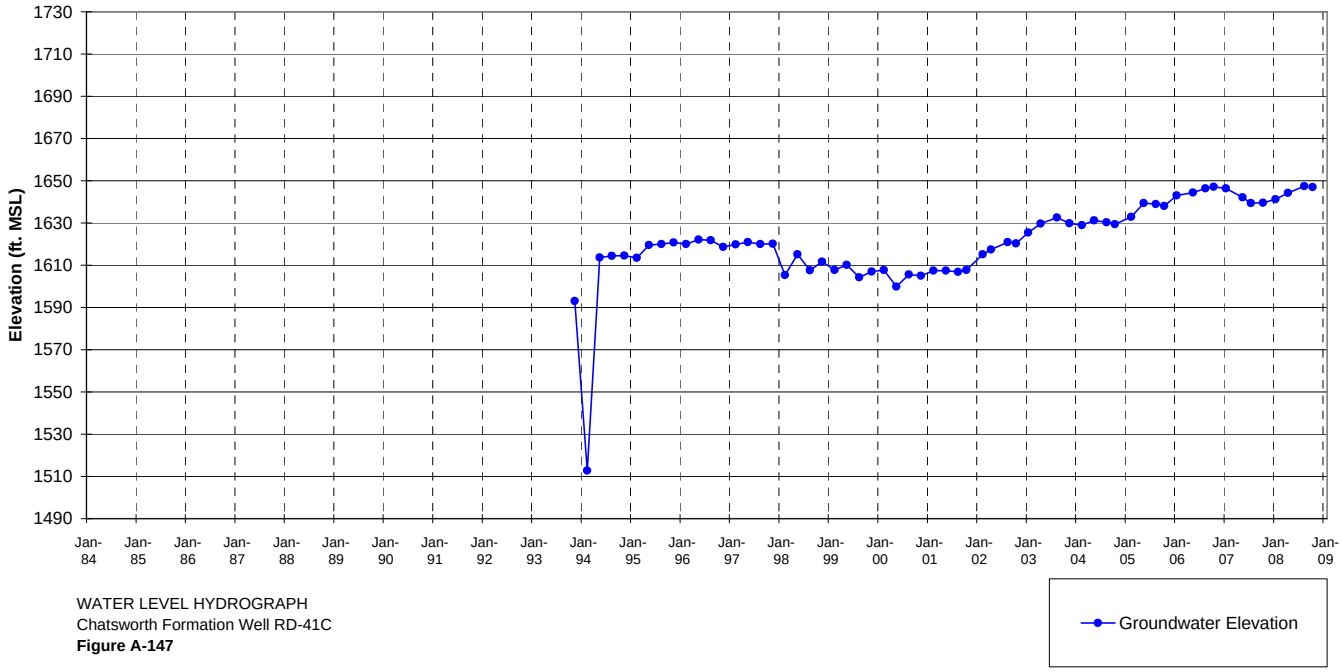
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-40
Figure A-144



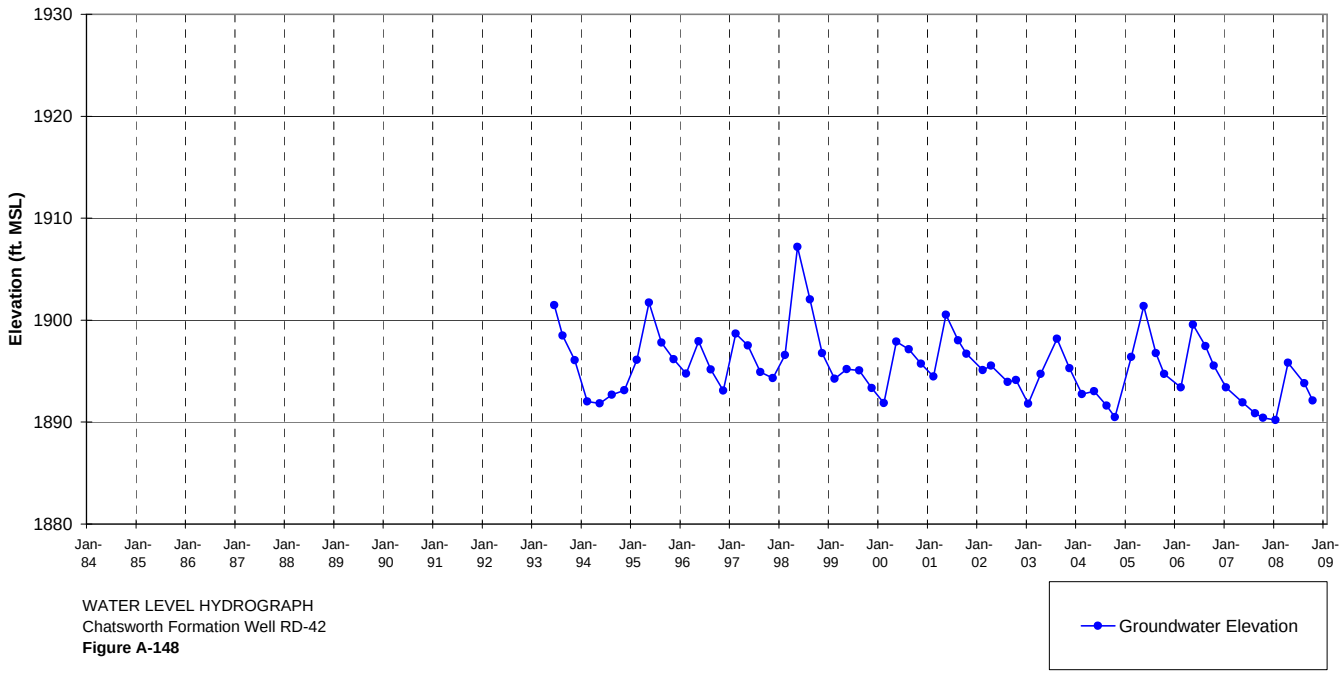
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-41A
Figure A-145



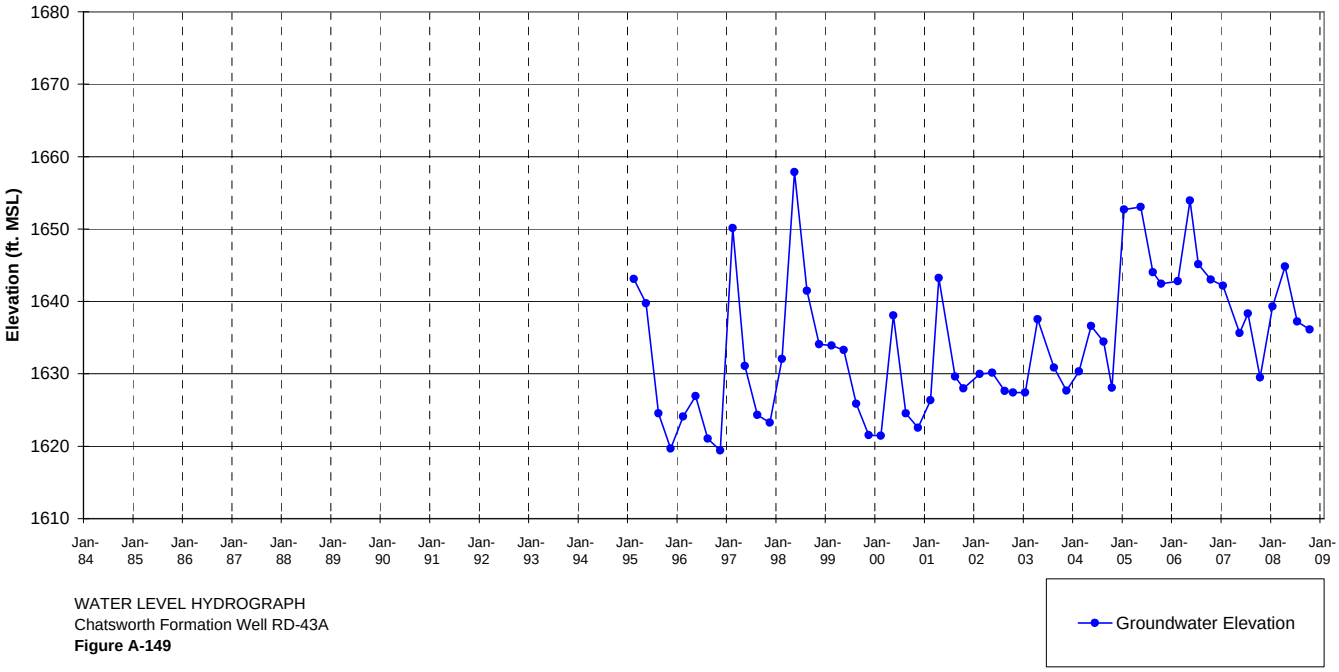
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-41B
Figure A-146



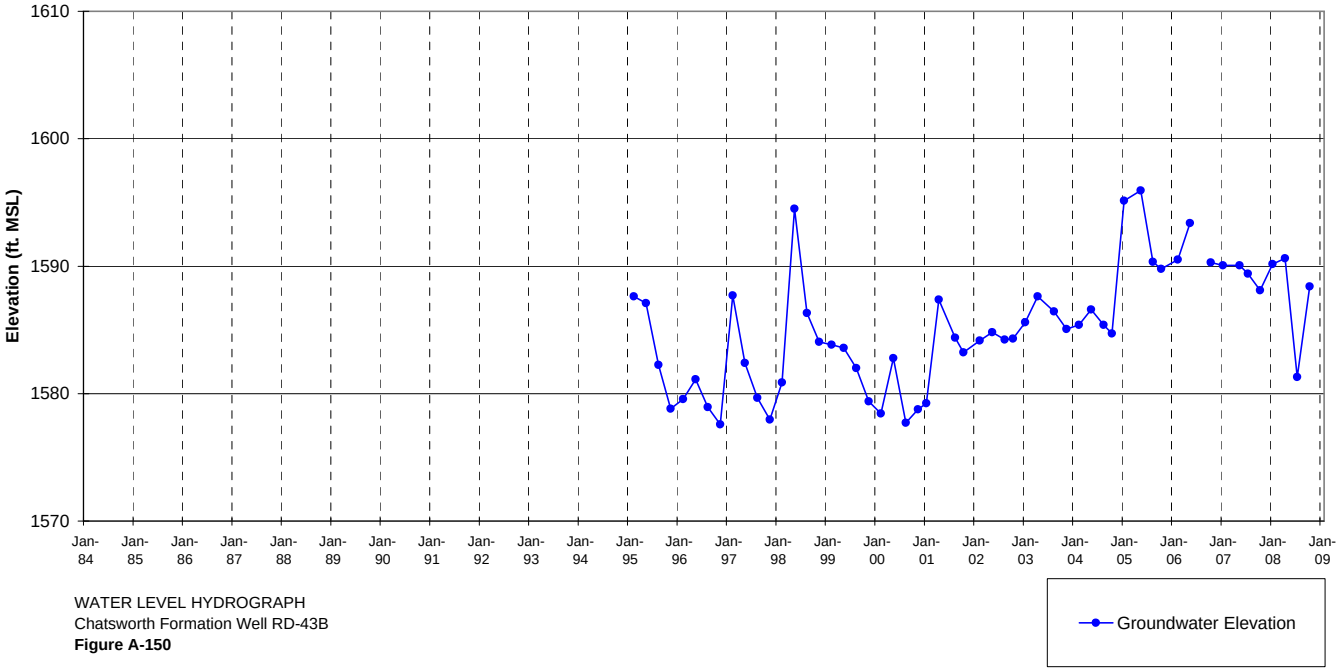
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-41C
Figure A-147



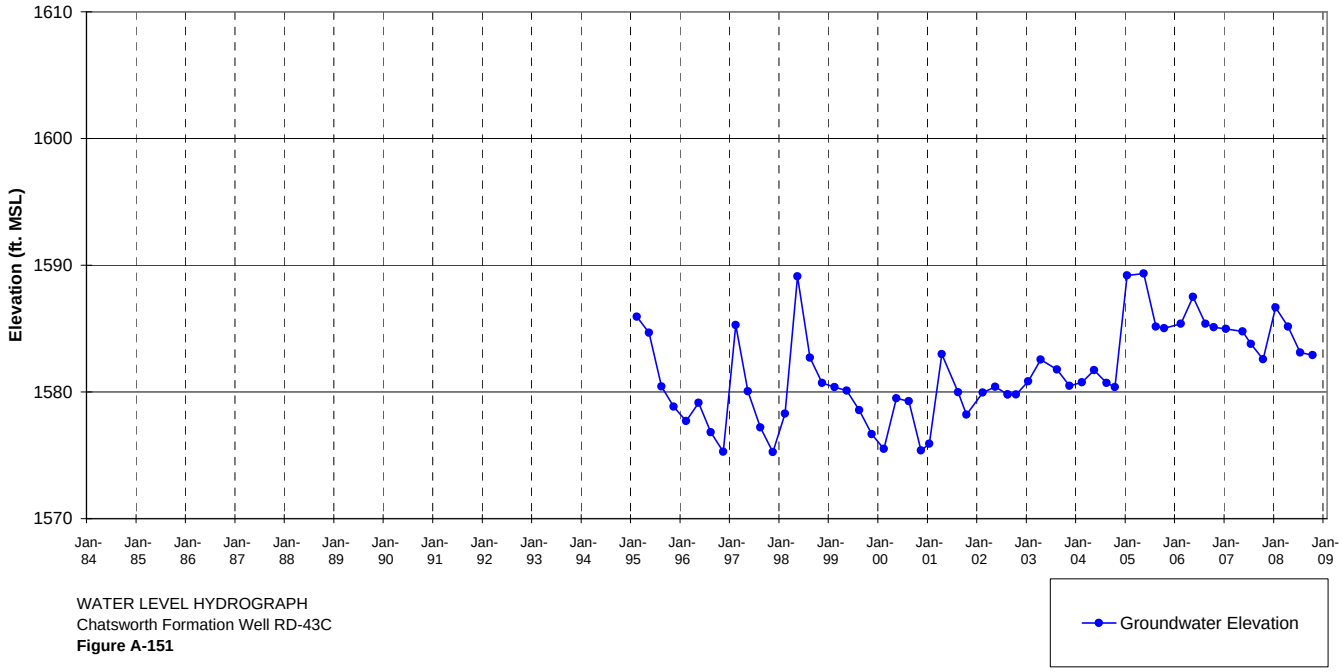
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-42
Figure A-148



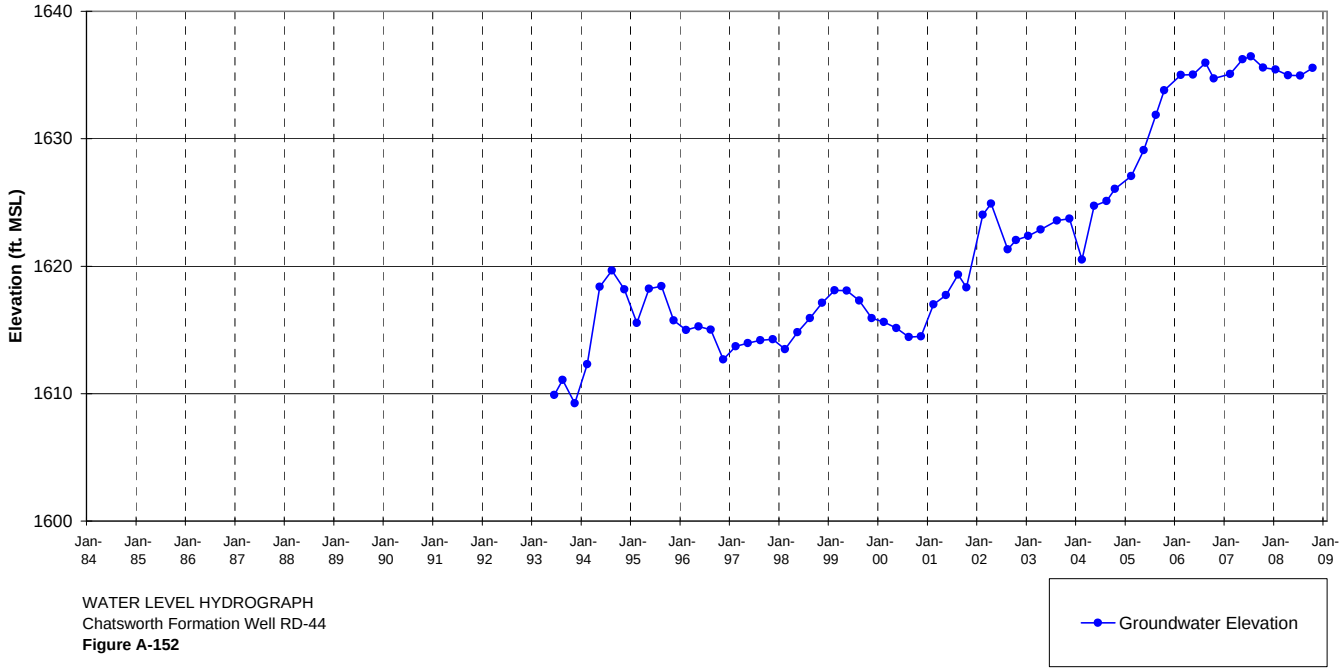
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-43A
Figure A-149



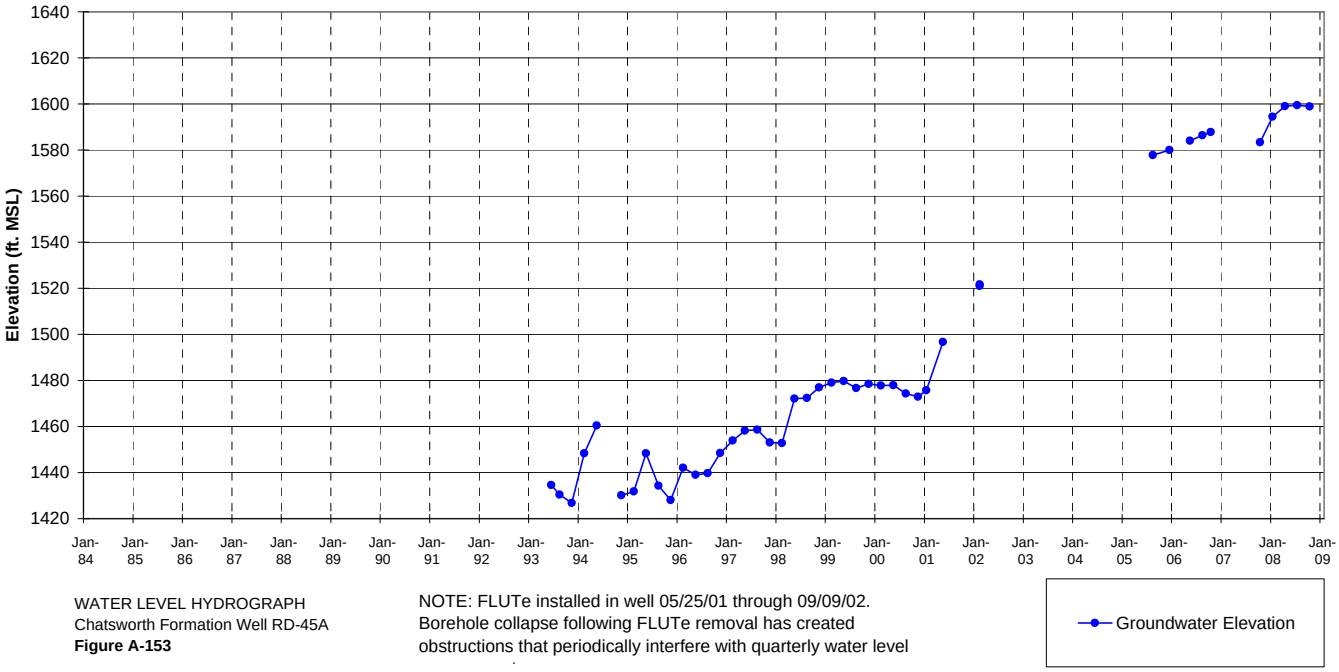
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-43B
Figure A-150



WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-43C
Figure A-151

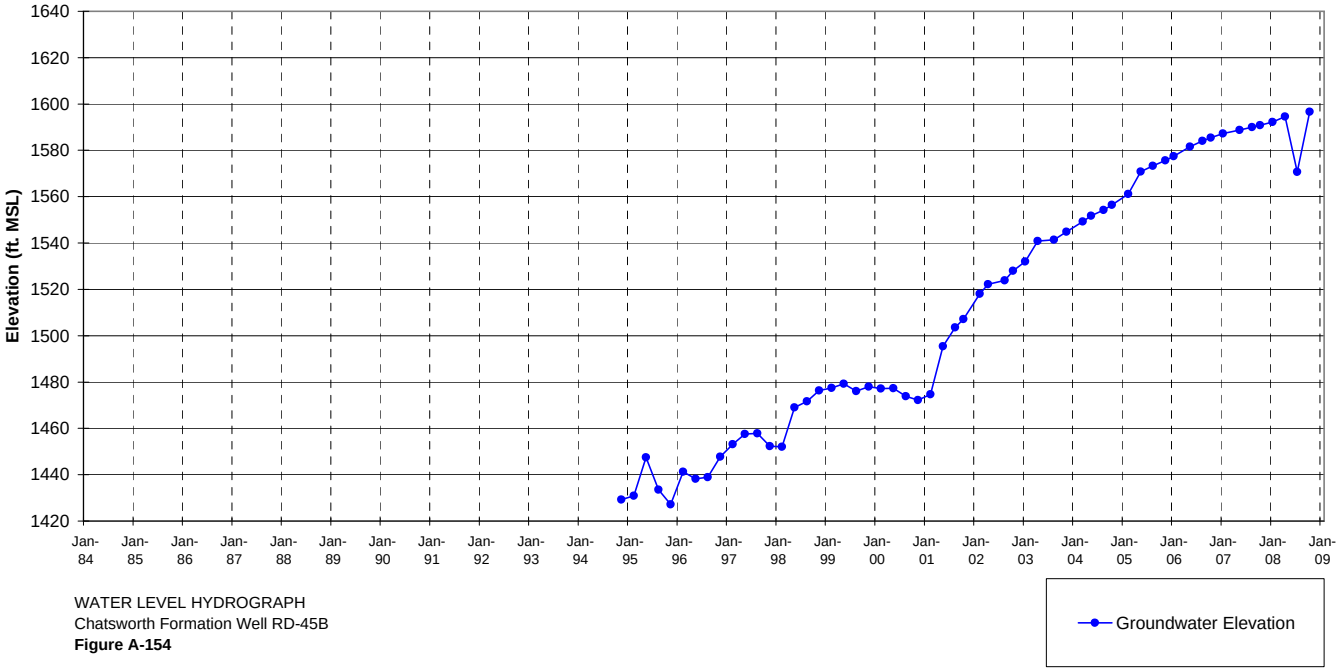


WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-44
Figure A-152

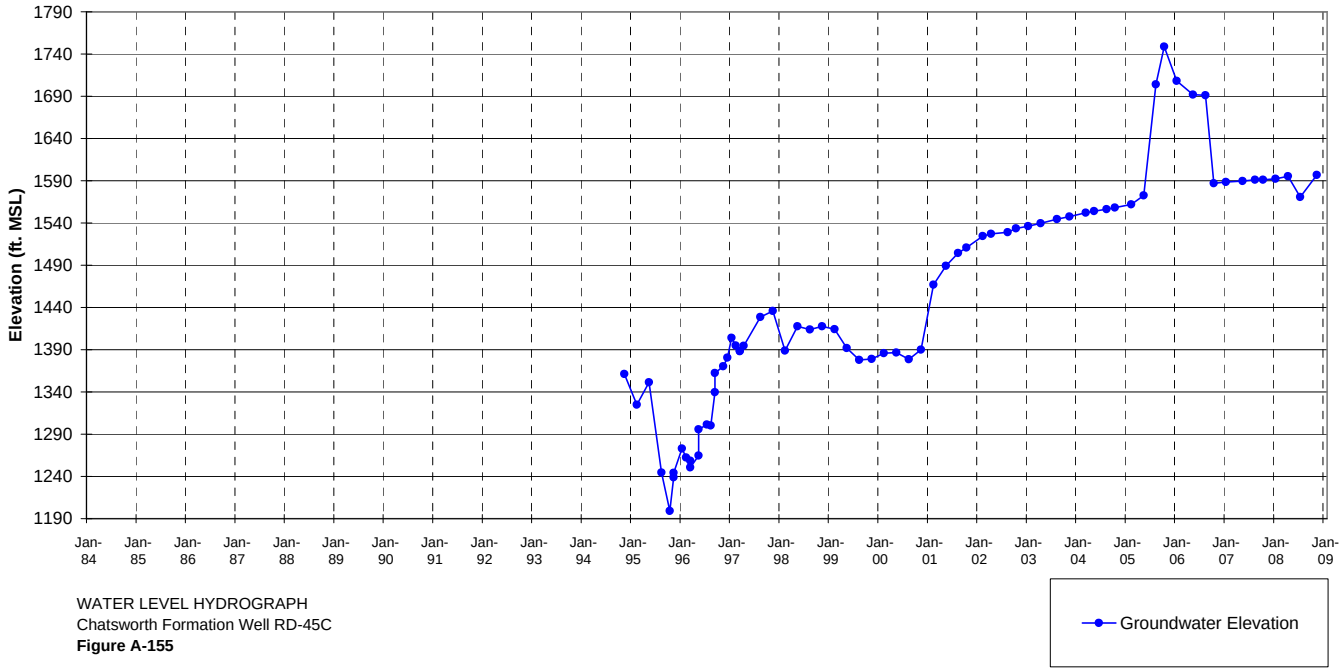


WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-45A
Figure A-153

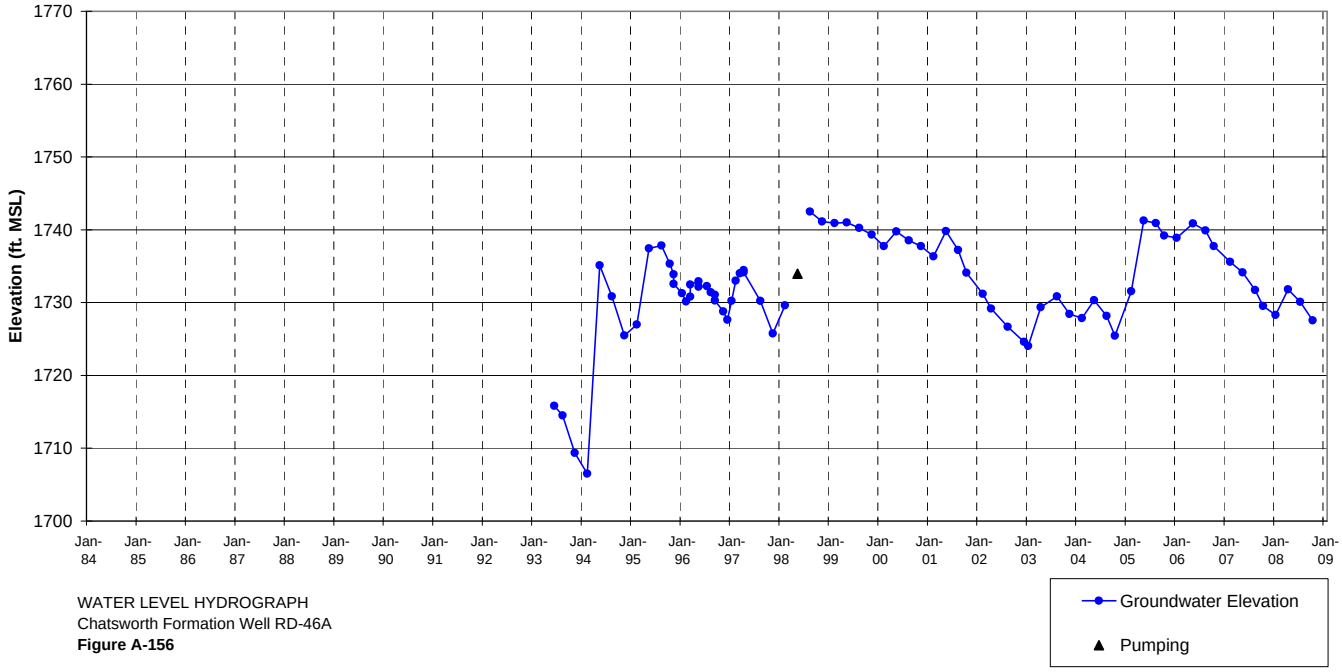
NOTE: FLUTe installed in well 05/25/01 through 09/09/02. Borehole collapse following FLUTe removal has created obstructions that periodically interfere with quarterly water level



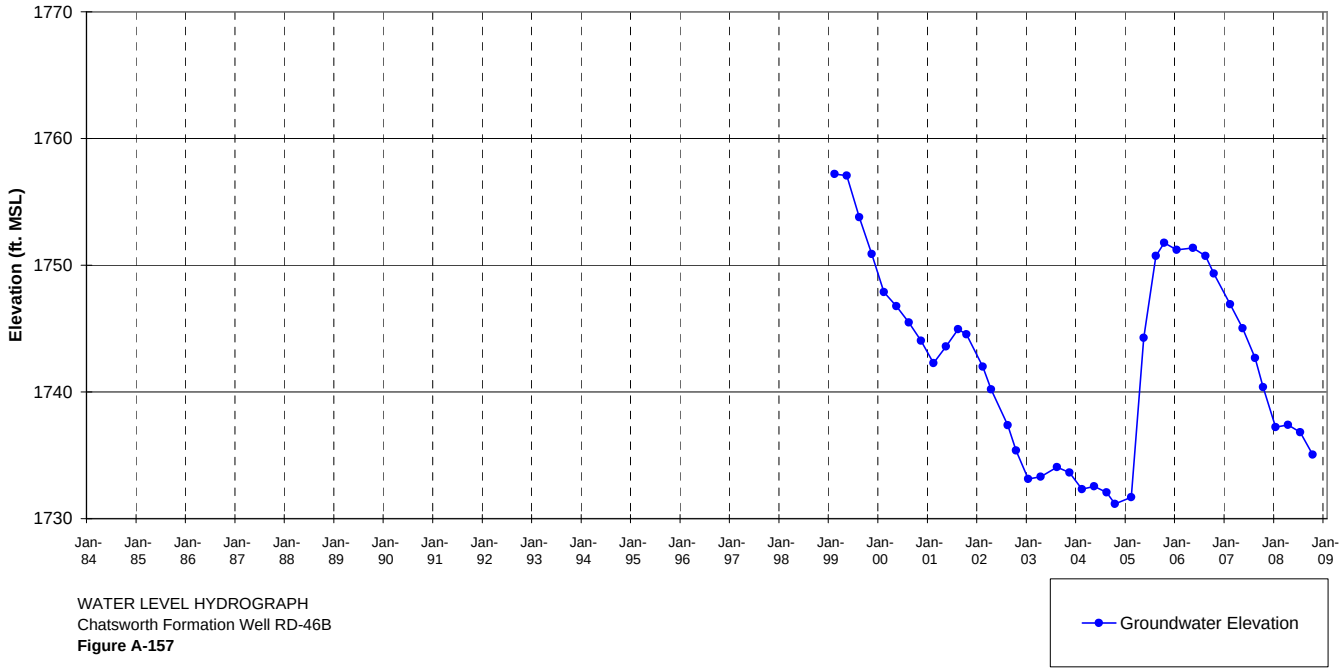
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-45B
Figure A-154



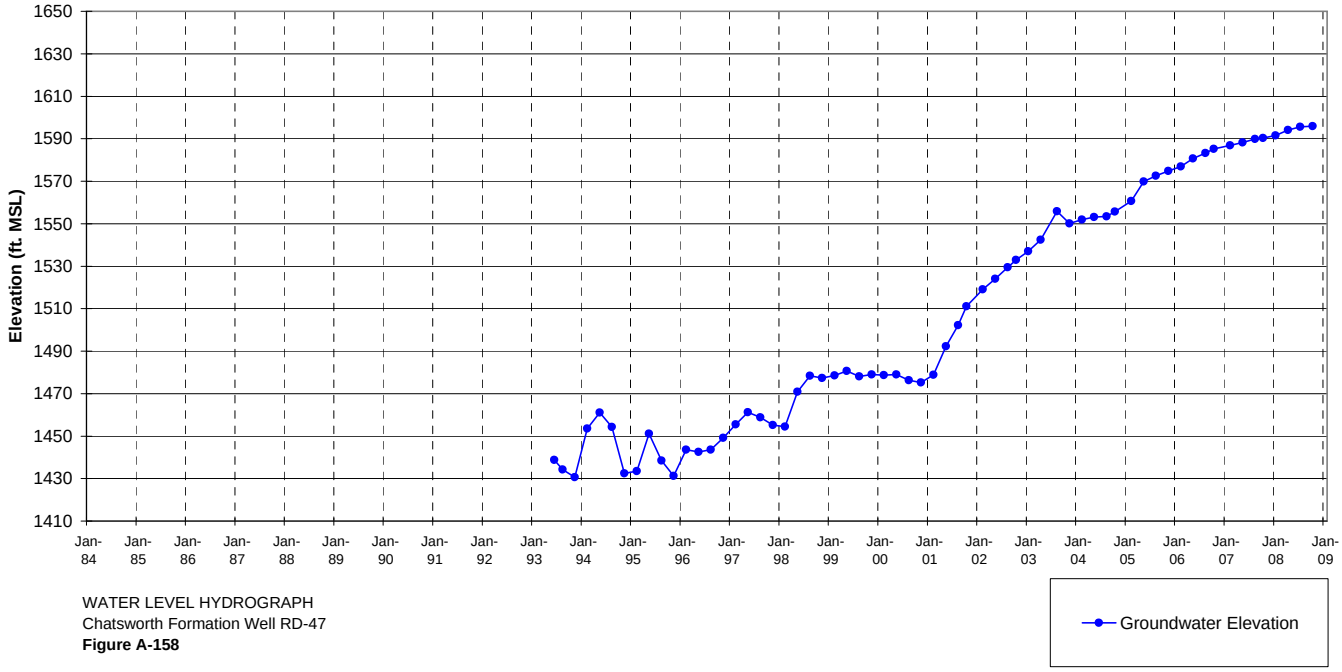
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-45C
Figure A-155



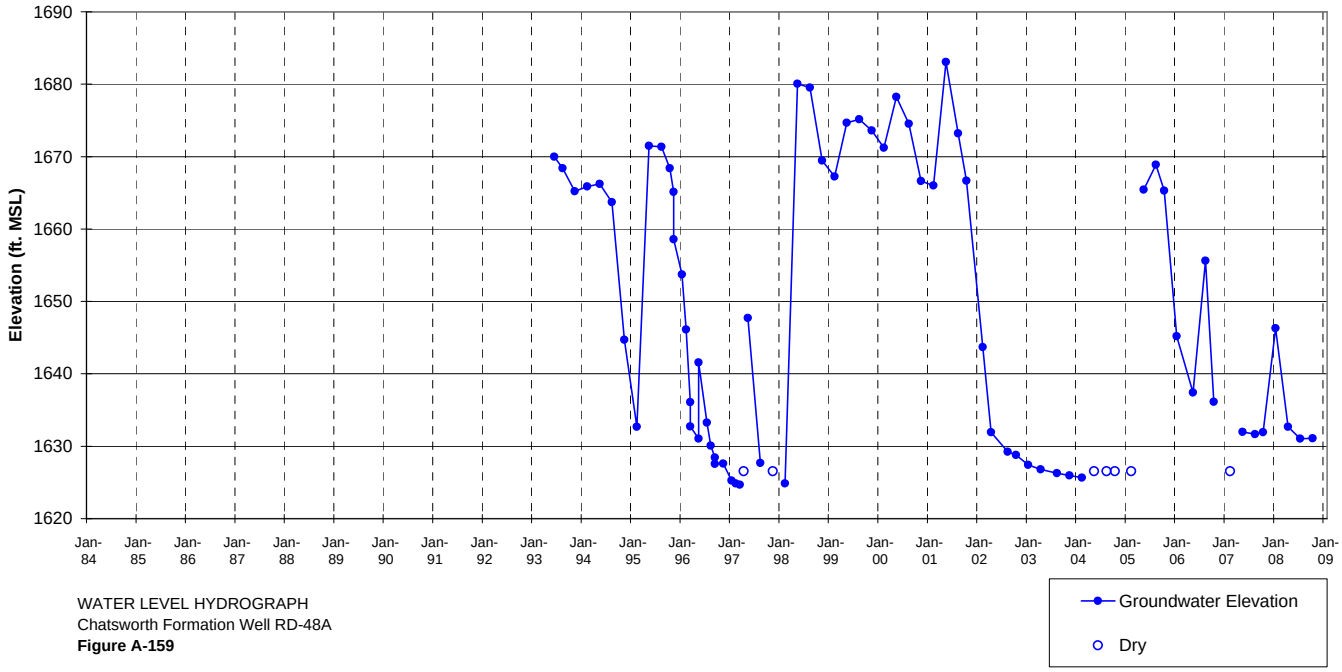
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-46A
Figure A-156



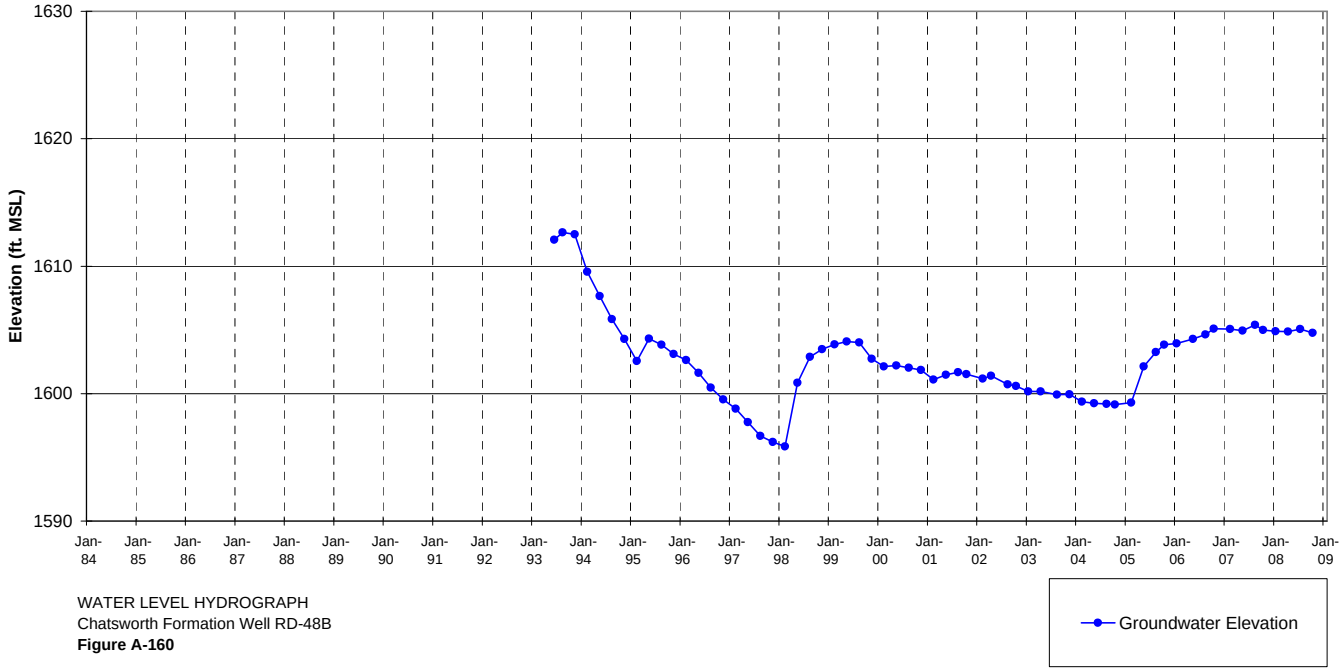
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-46B
Figure A-157



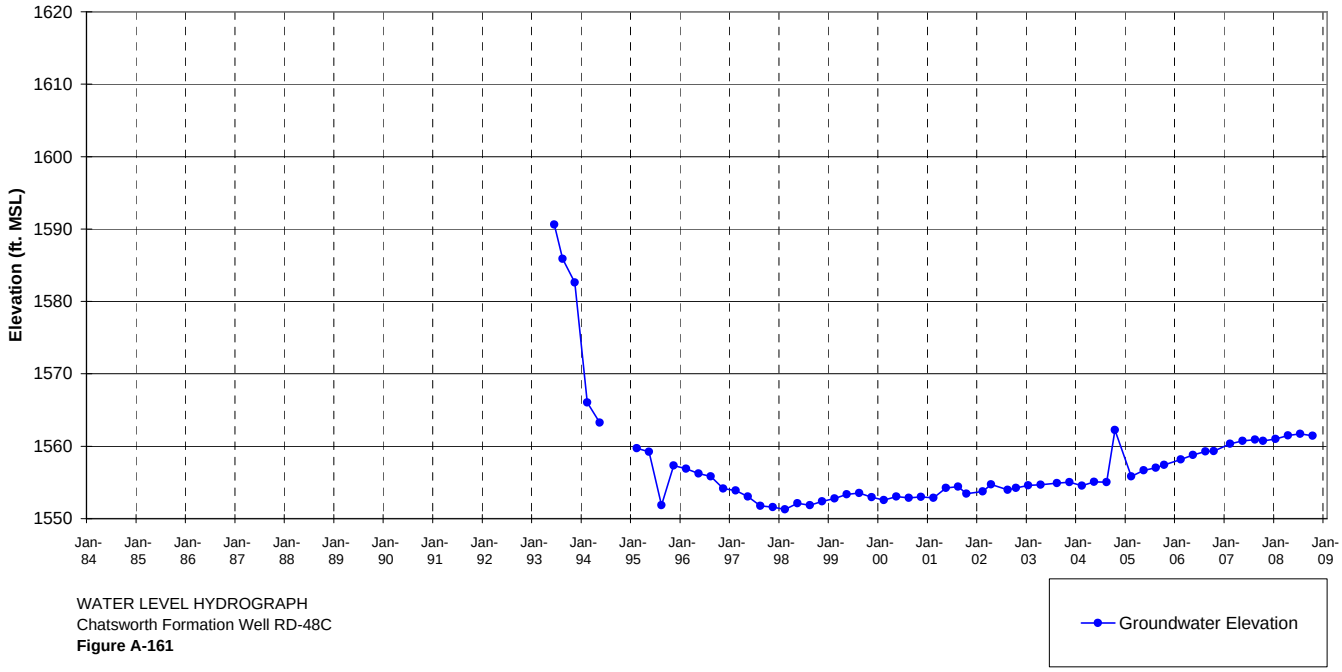
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-47
Figure A-158



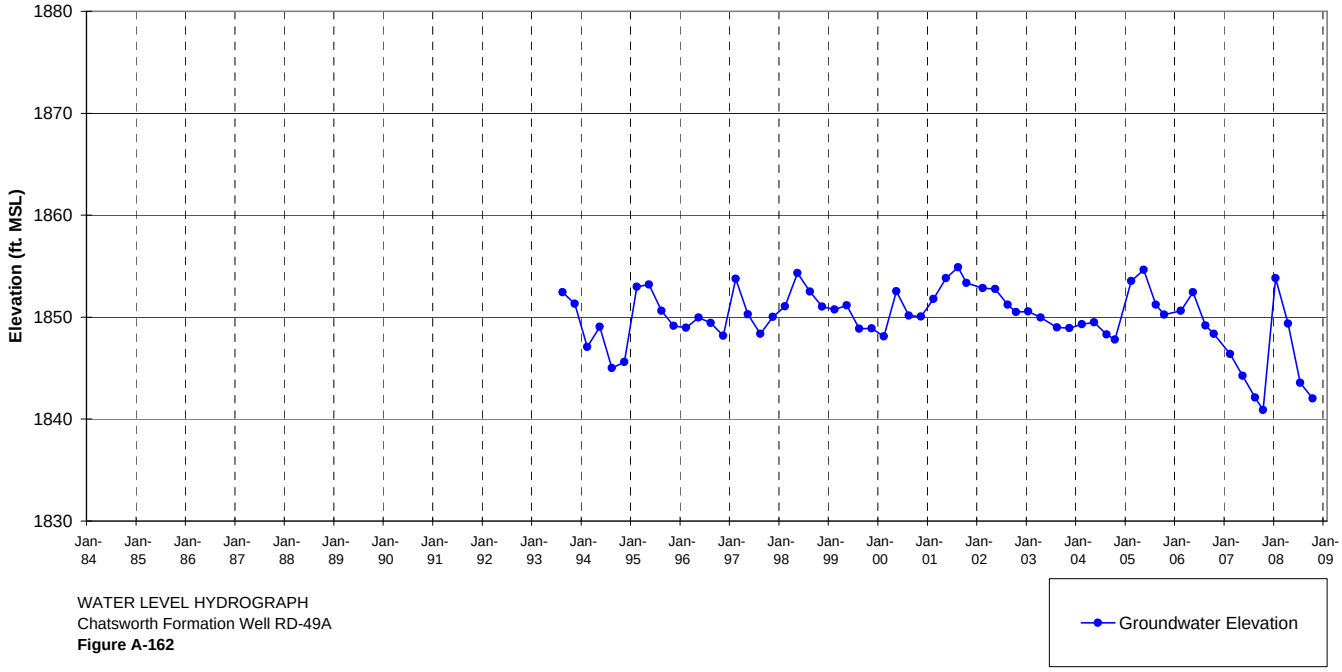
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-48A
Figure A-159



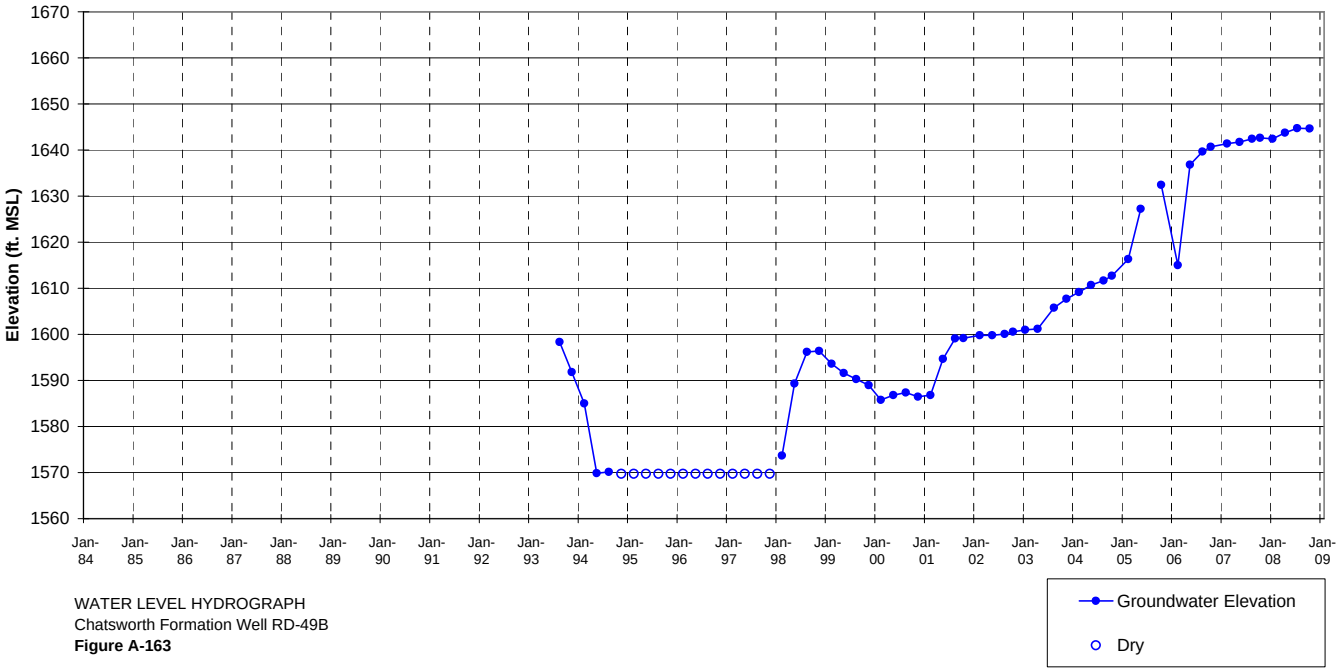
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-48B
Figure A-160



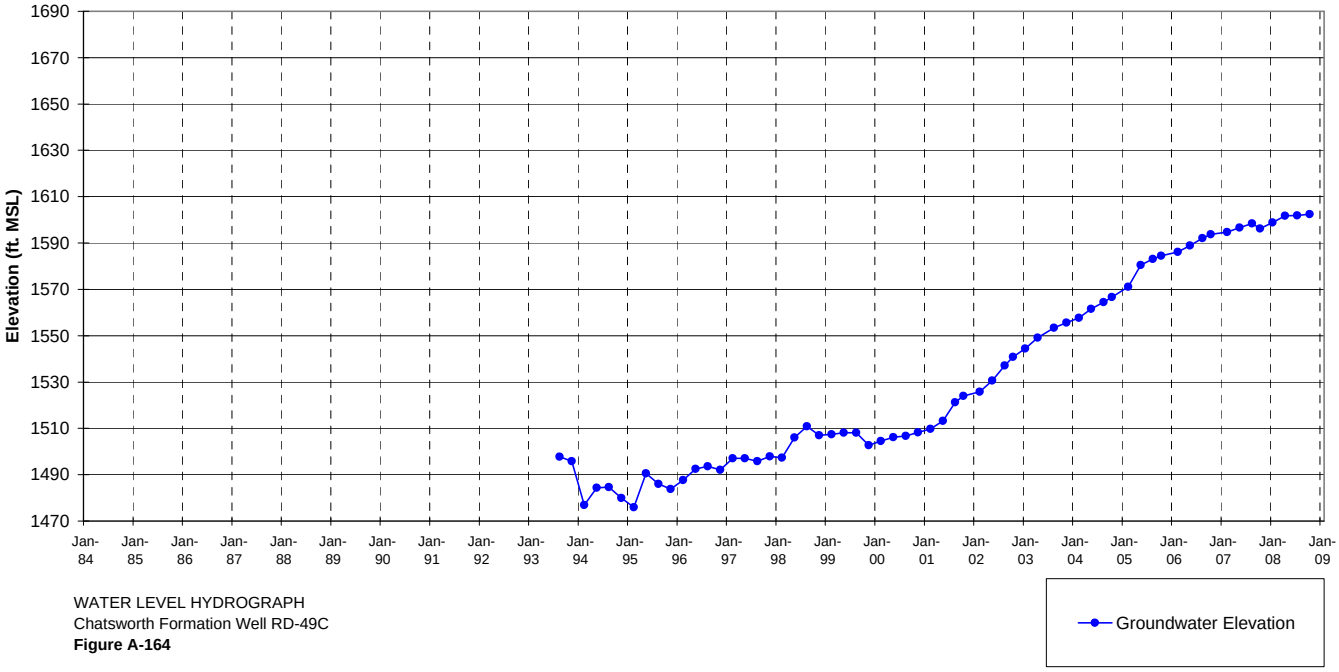
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-48C
Figure A-161



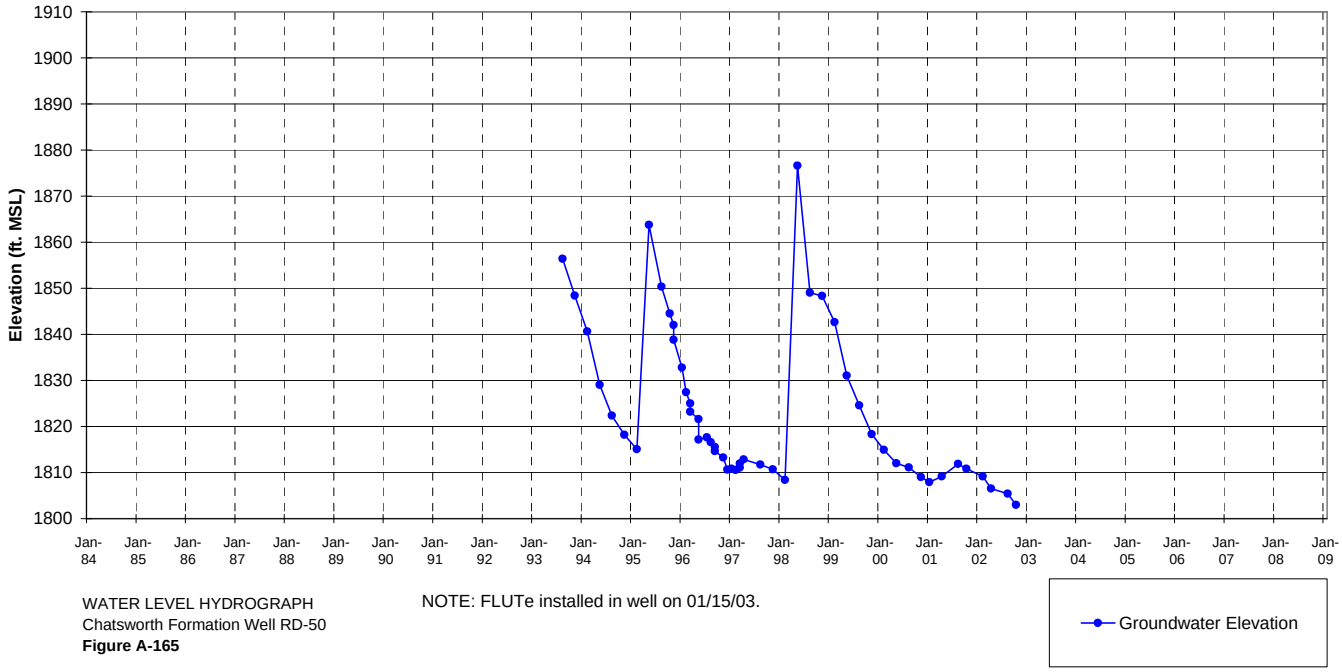
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-49A
Figure A-162



WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-49B
Figure A-163

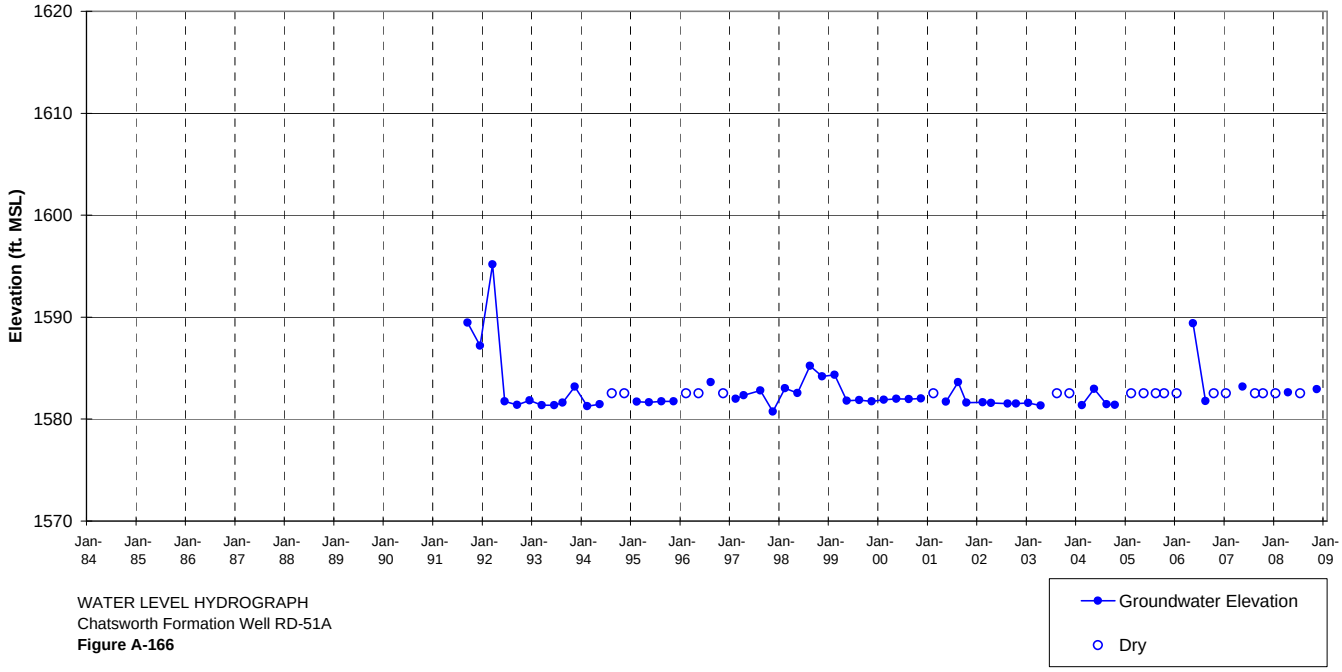


WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-49C
Figure A-164

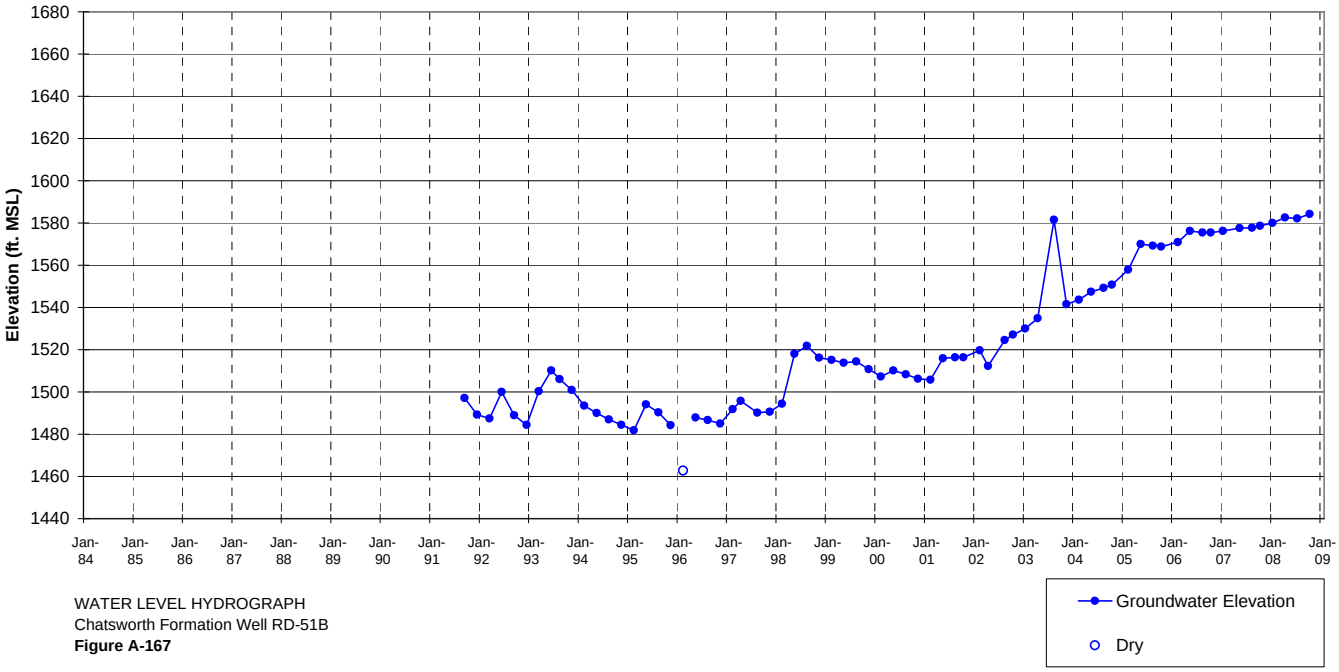


WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-50
Figure A-165

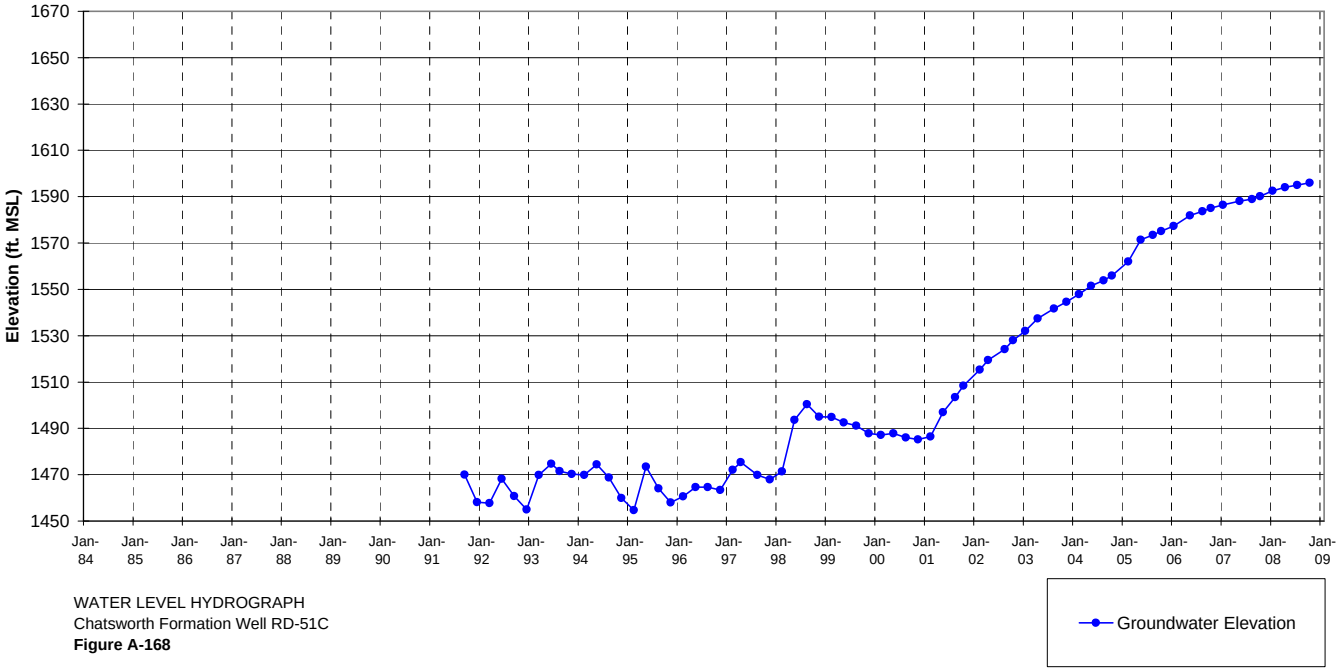
NOTE: FLUTe installed in well on 01/15/03.



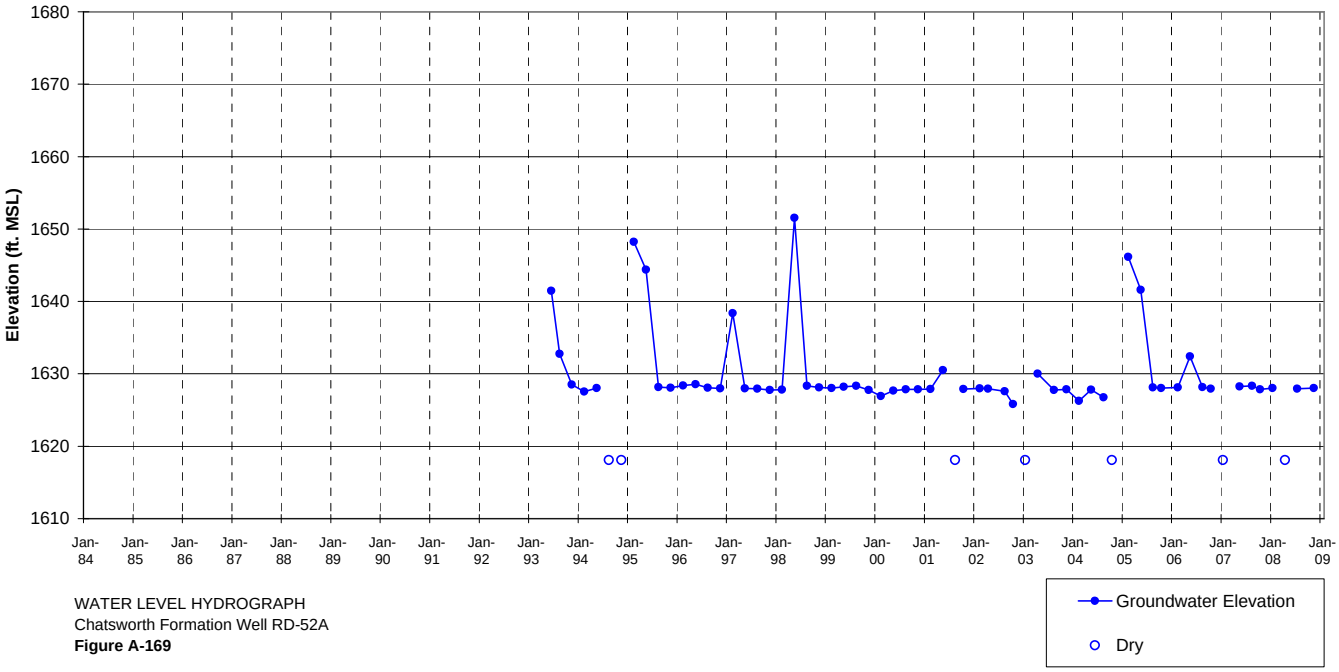
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-51A
Figure A-166



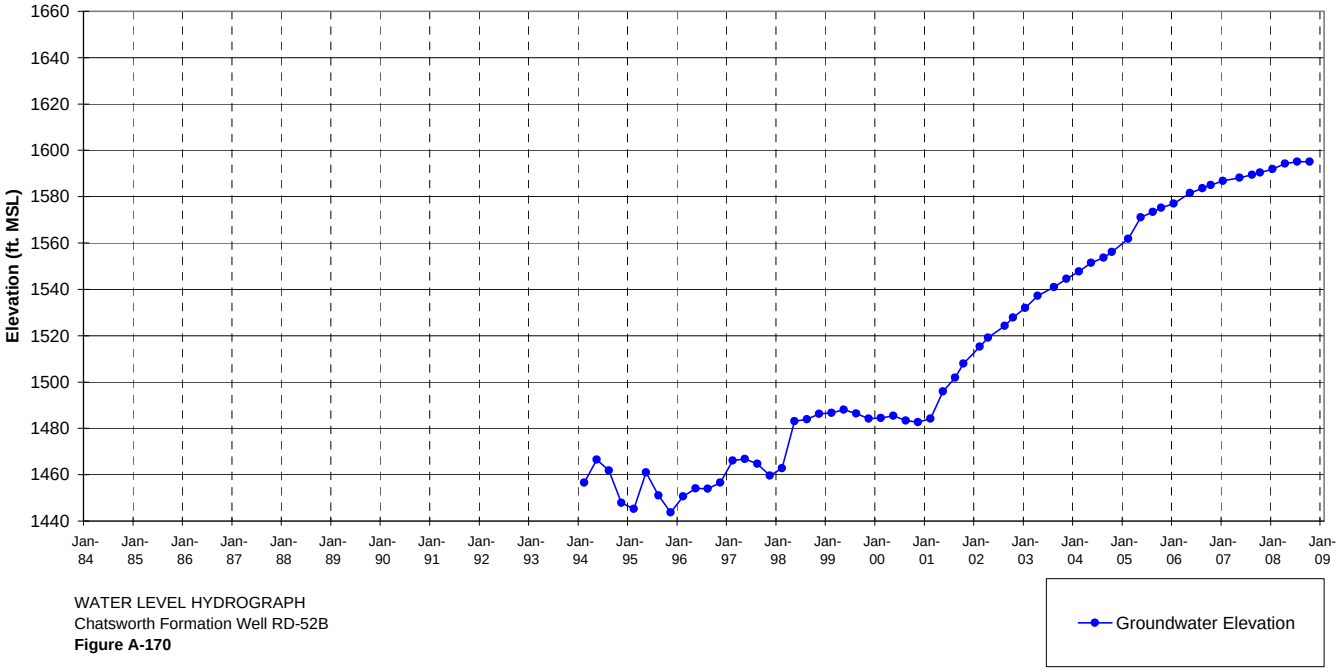
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-51B
Figure A-167



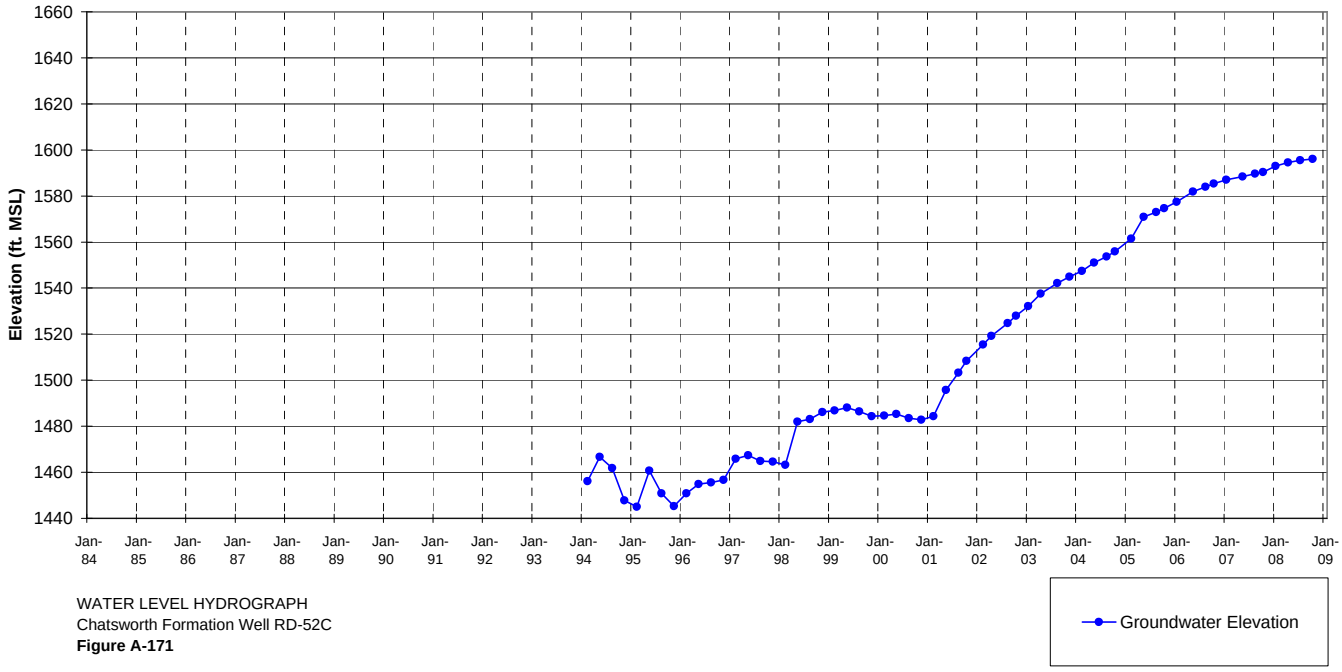
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-51C
Figure A-168



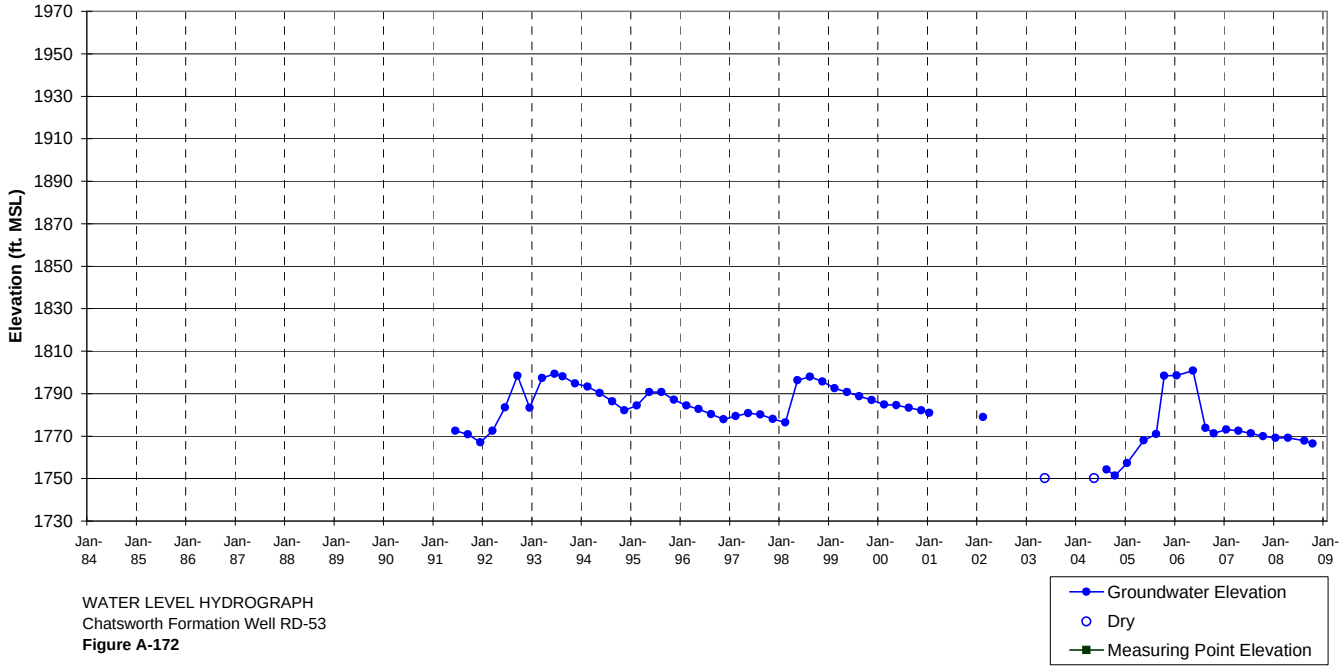
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-52A
Figure A-169



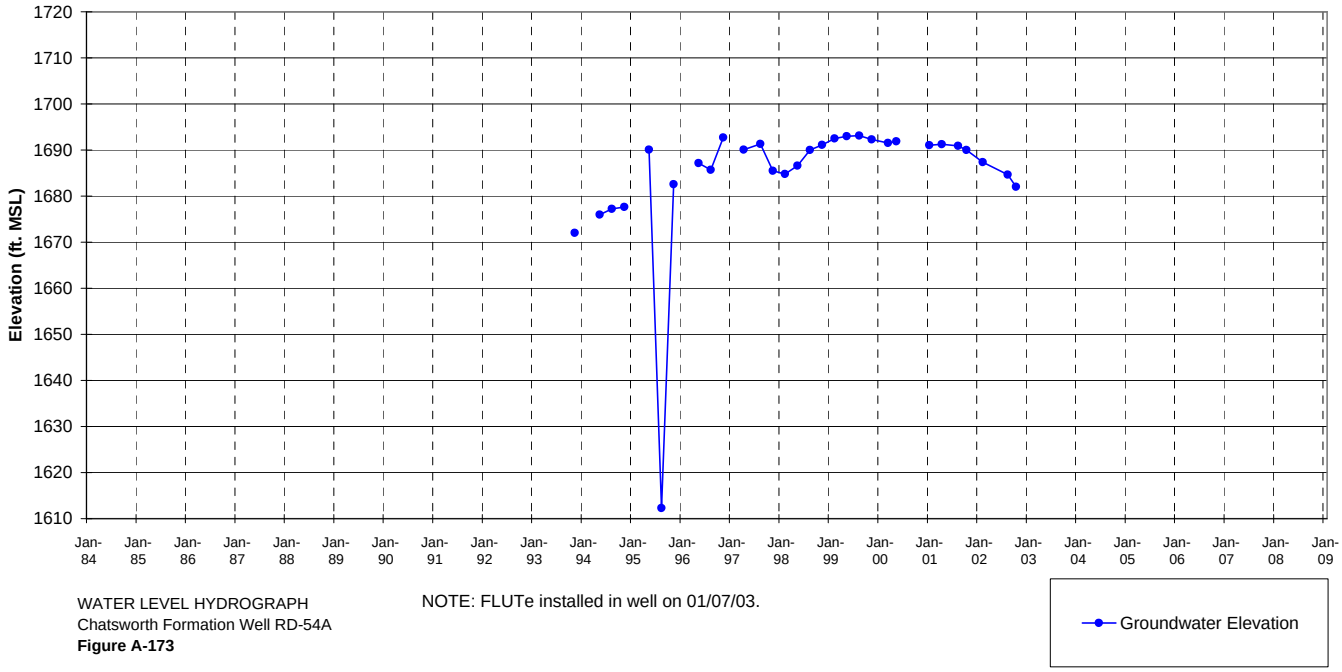
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-52B
Figure A-170



WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-52C
Figure A-171

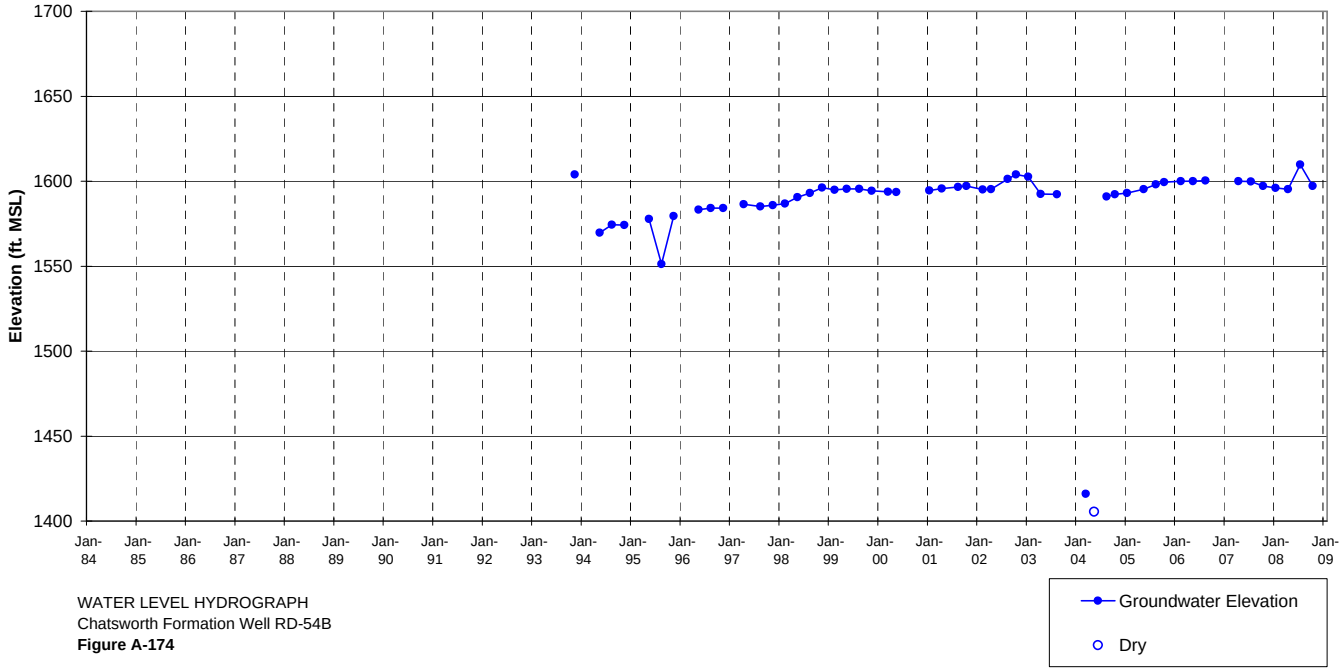


WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-53
Figure A-172

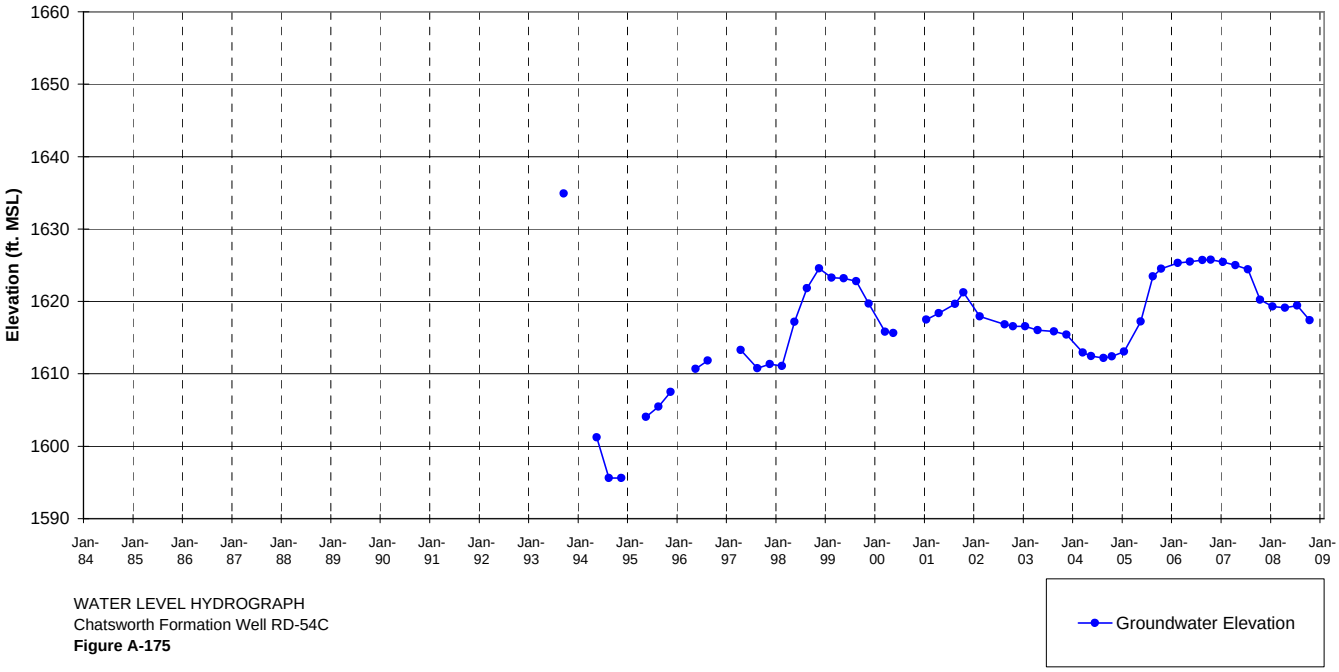


WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-54A
Figure A-173

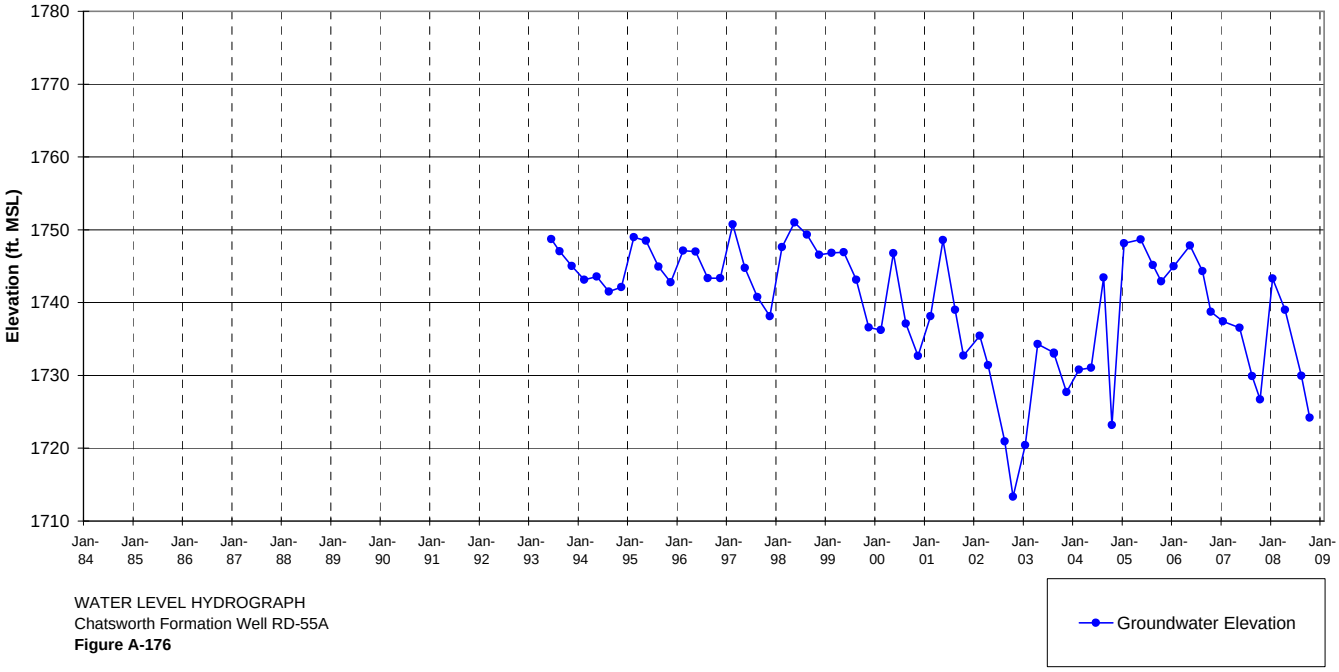
NOTE: FLUTe installed in well on 01/07/03.



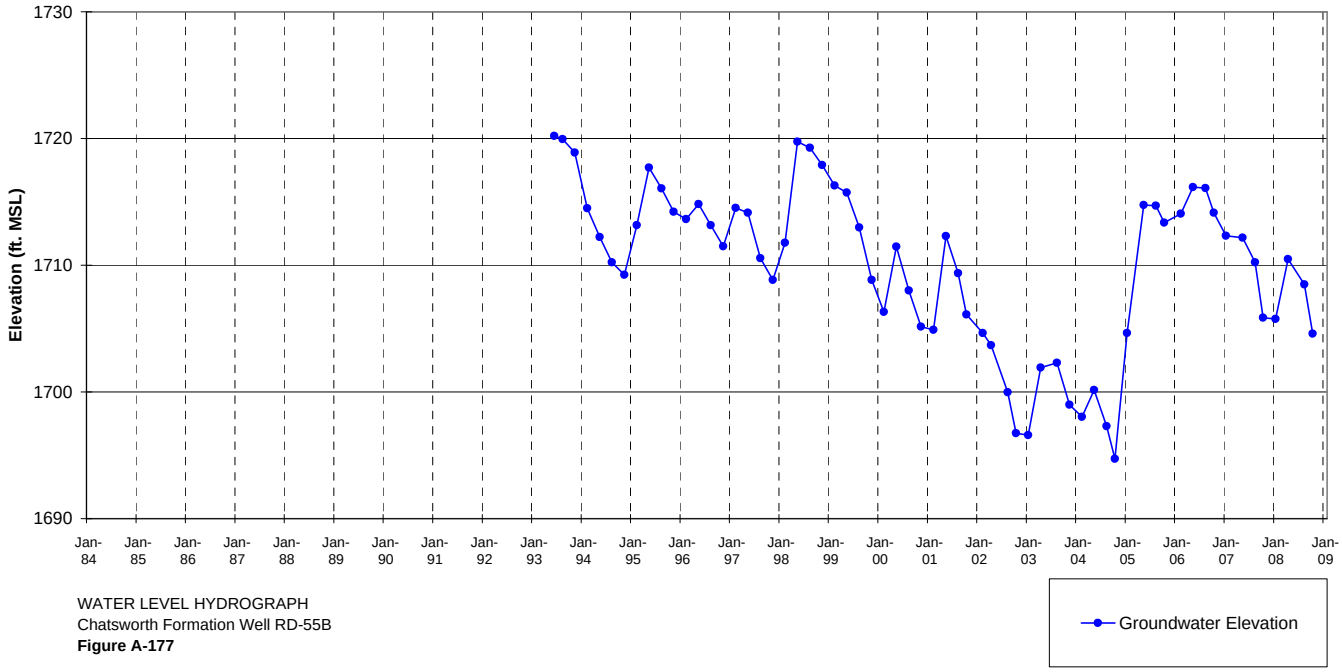
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-54B
Figure A-174



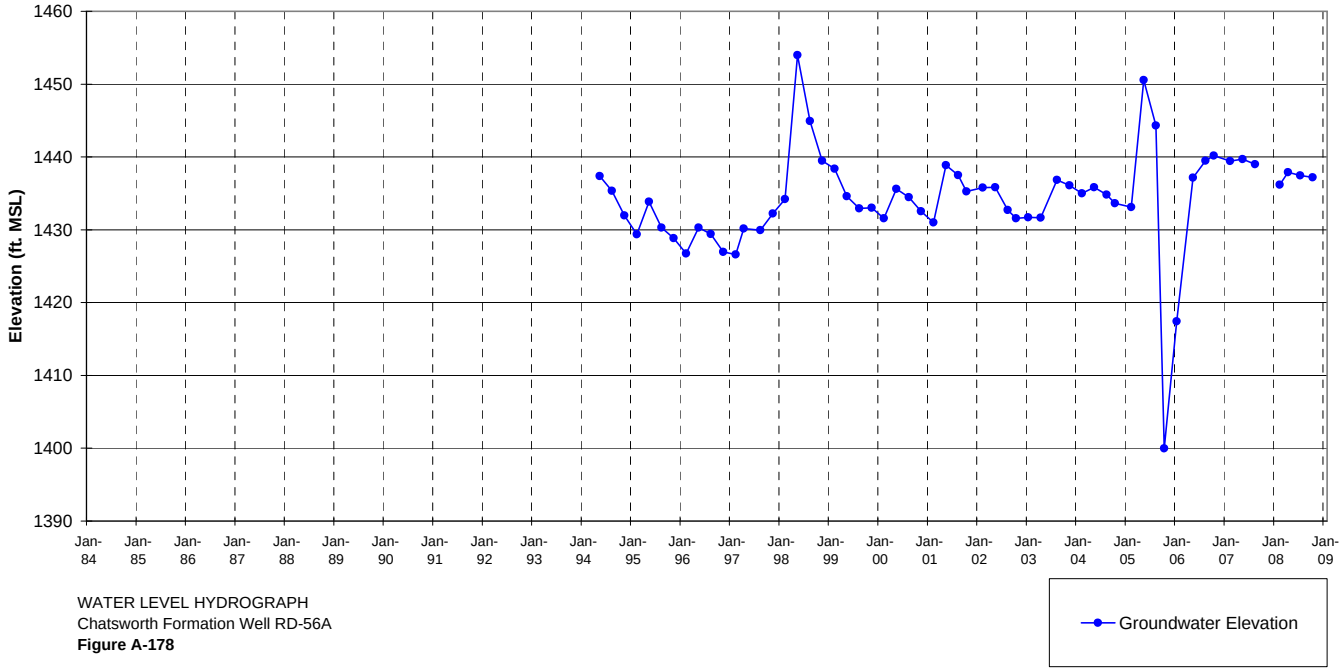
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-54C
Figure A-175



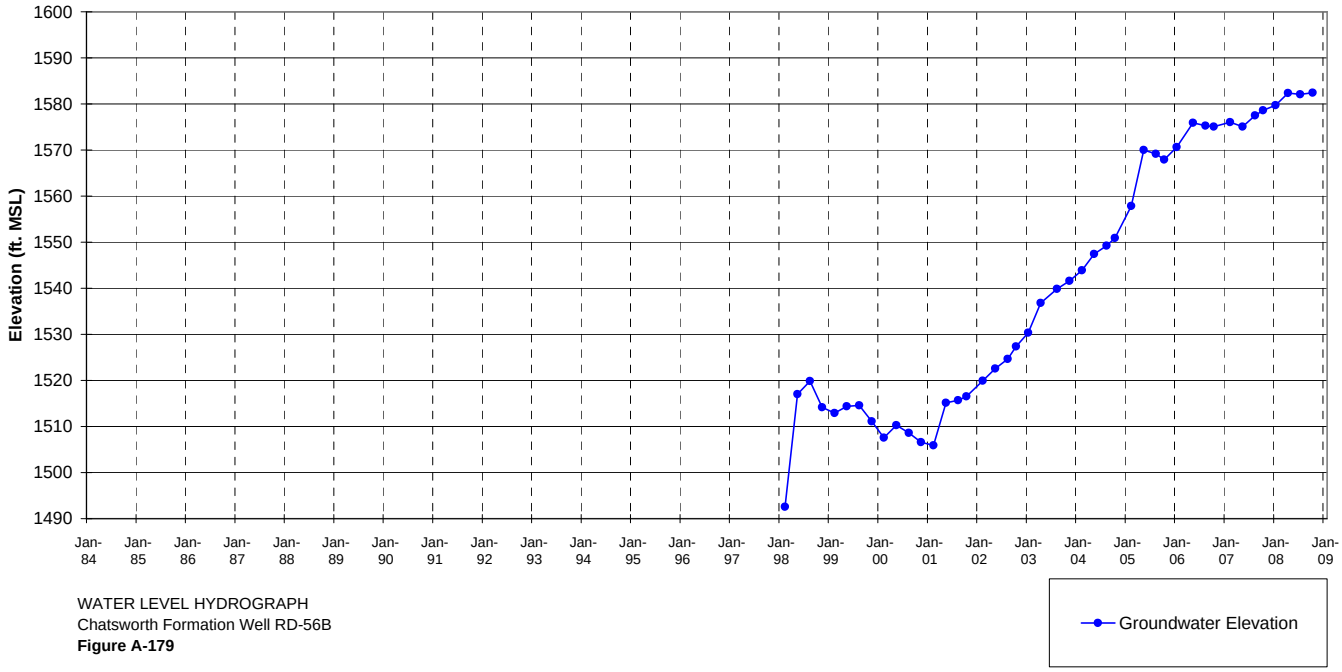
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-55A
Figure A-176



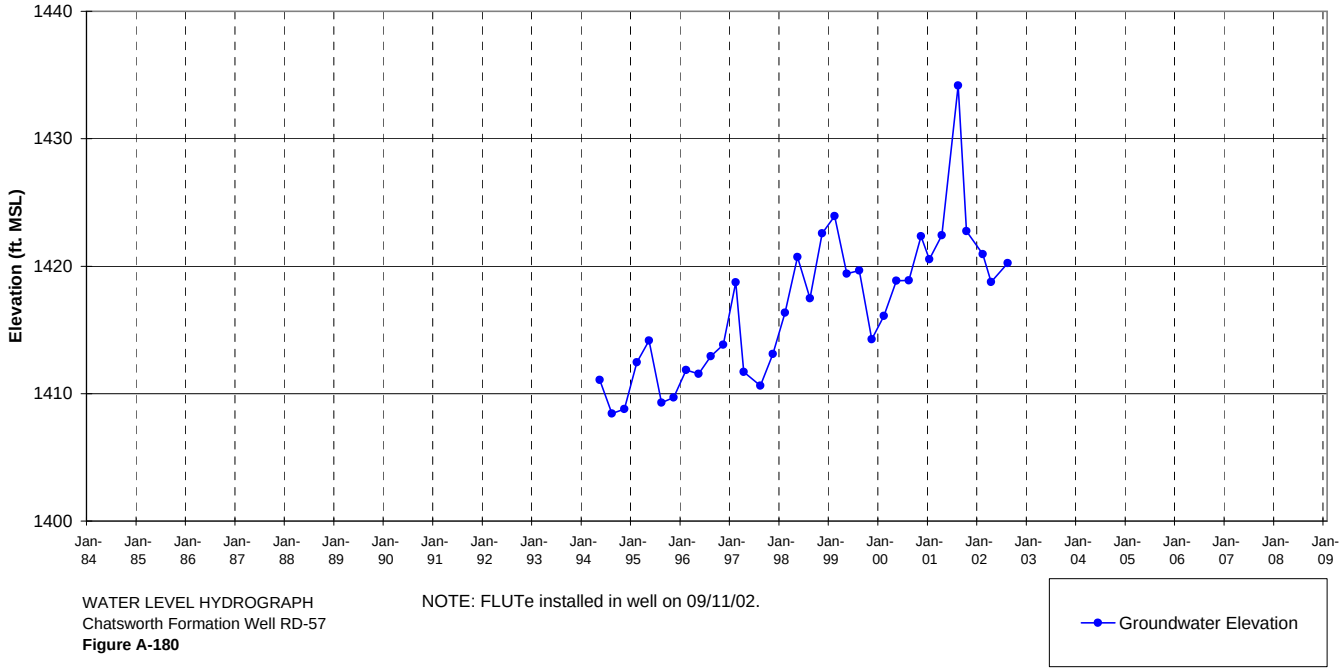
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-55B
Figure A-177



WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-56A
Figure A-178

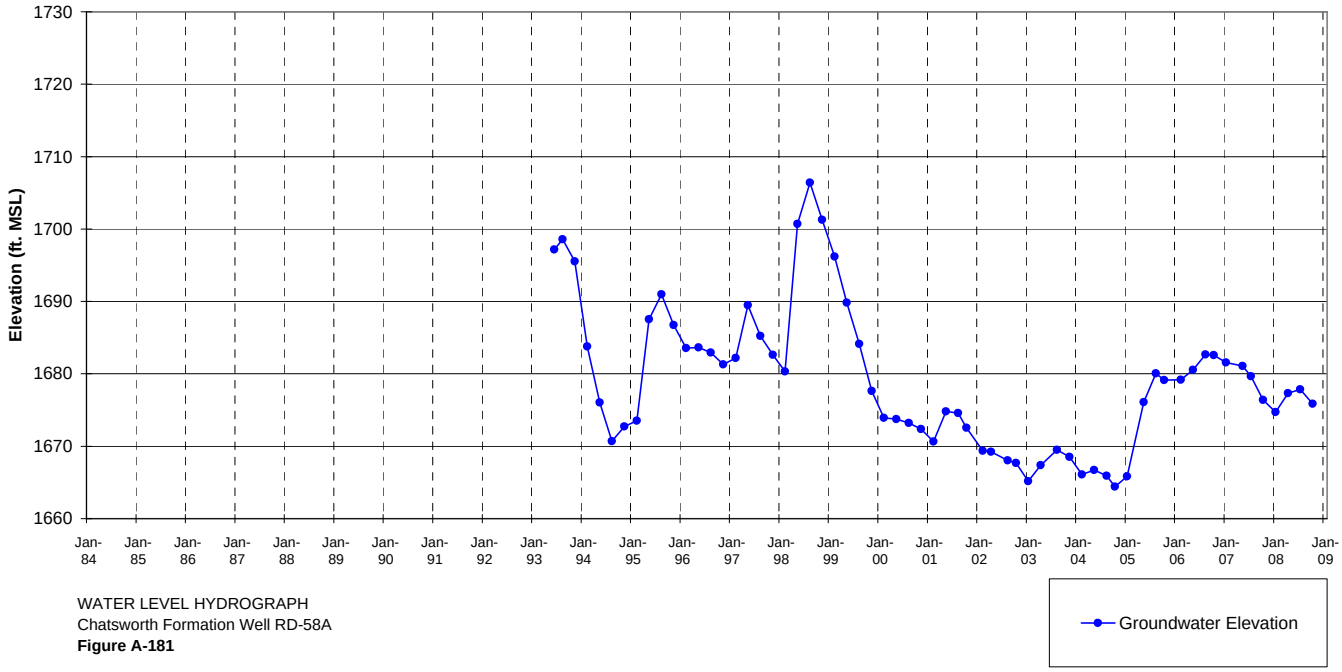


WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-56B
Figure A-179

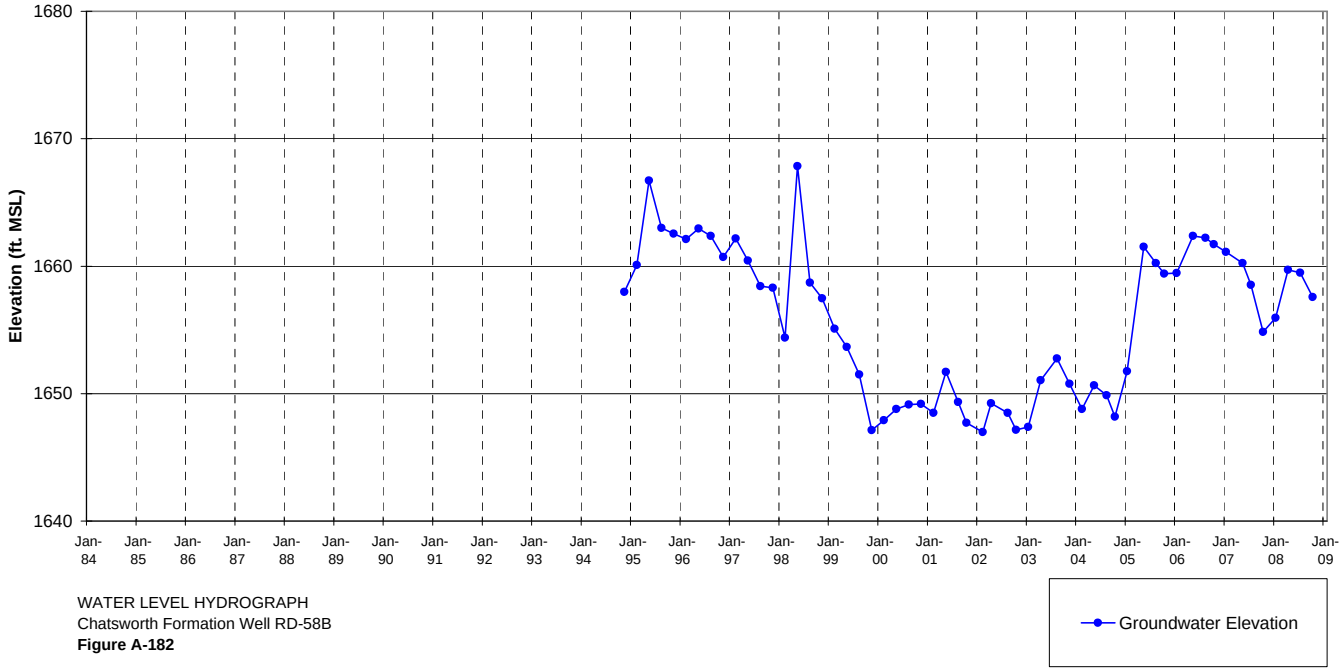


WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-57
Figure A-180

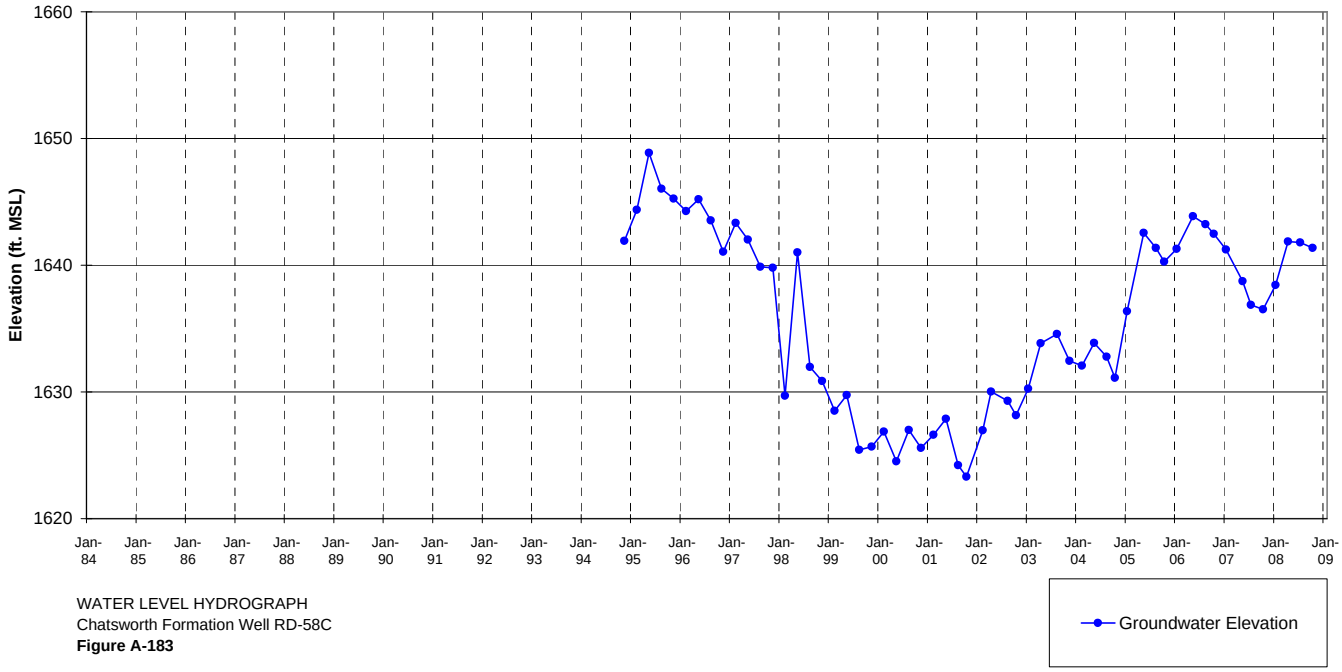
NOTE: FLUTe installed in well on 09/11/02.



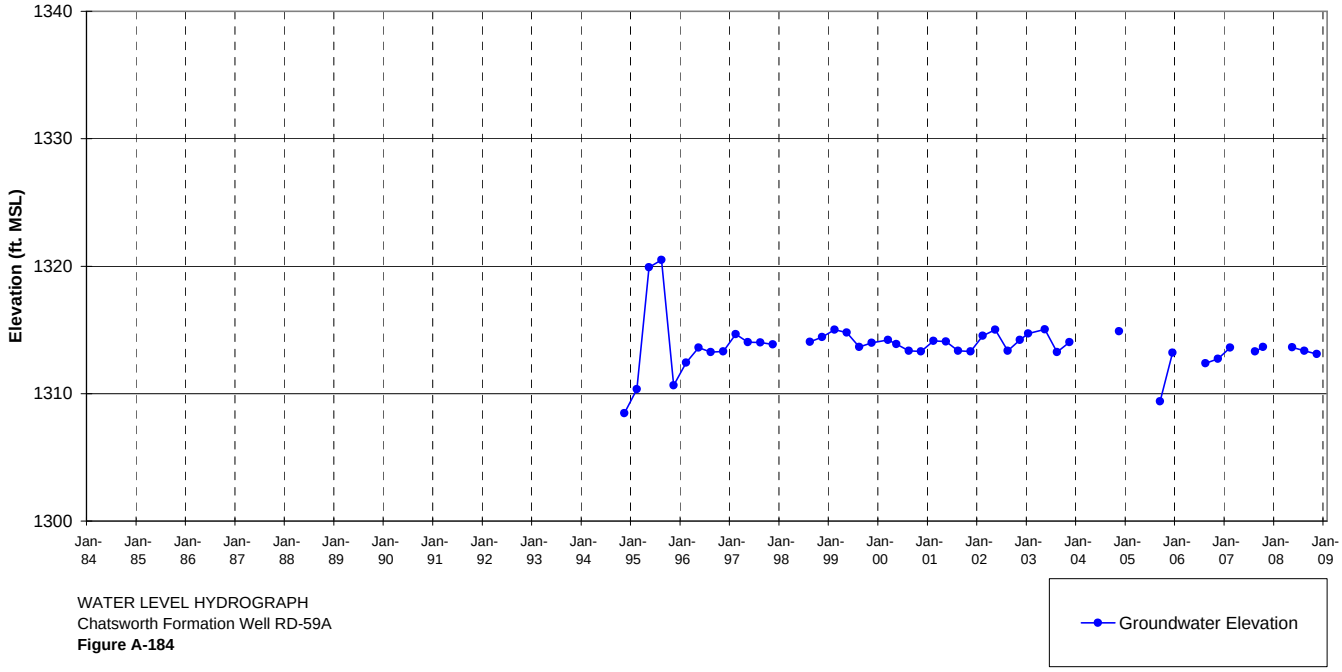
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-58A
Figure A-181



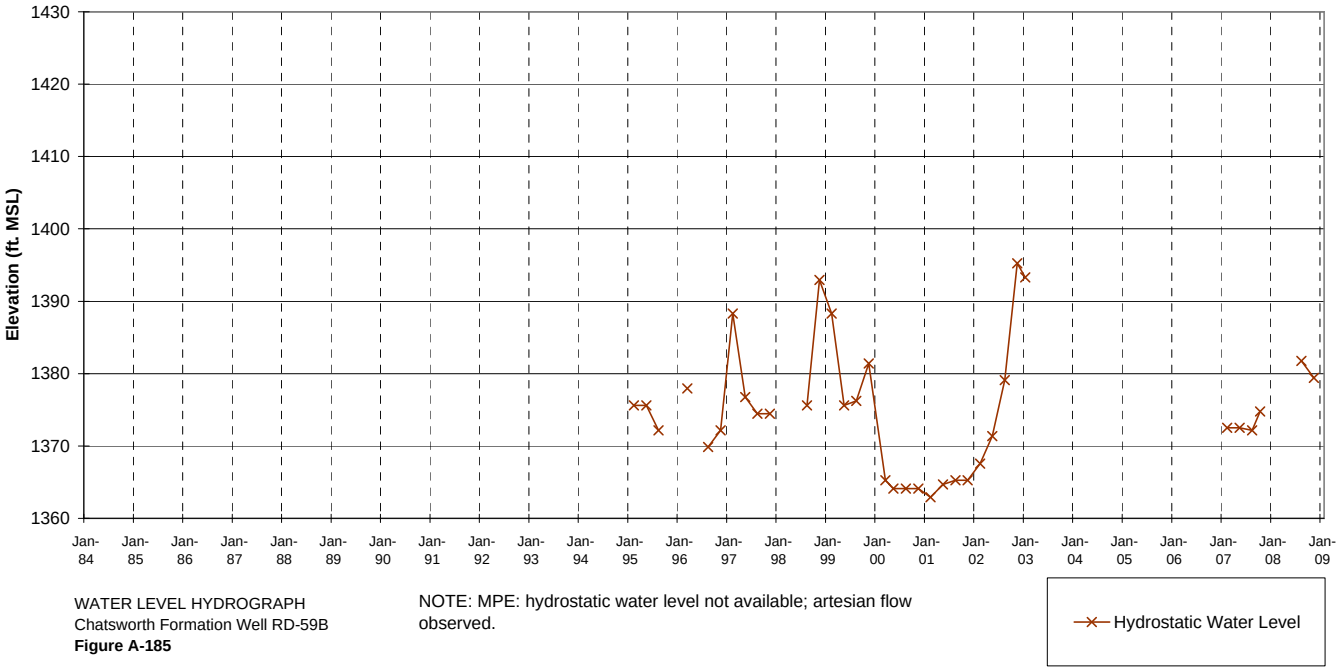
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-58B
Figure A-182



WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-58C
Figure A-183

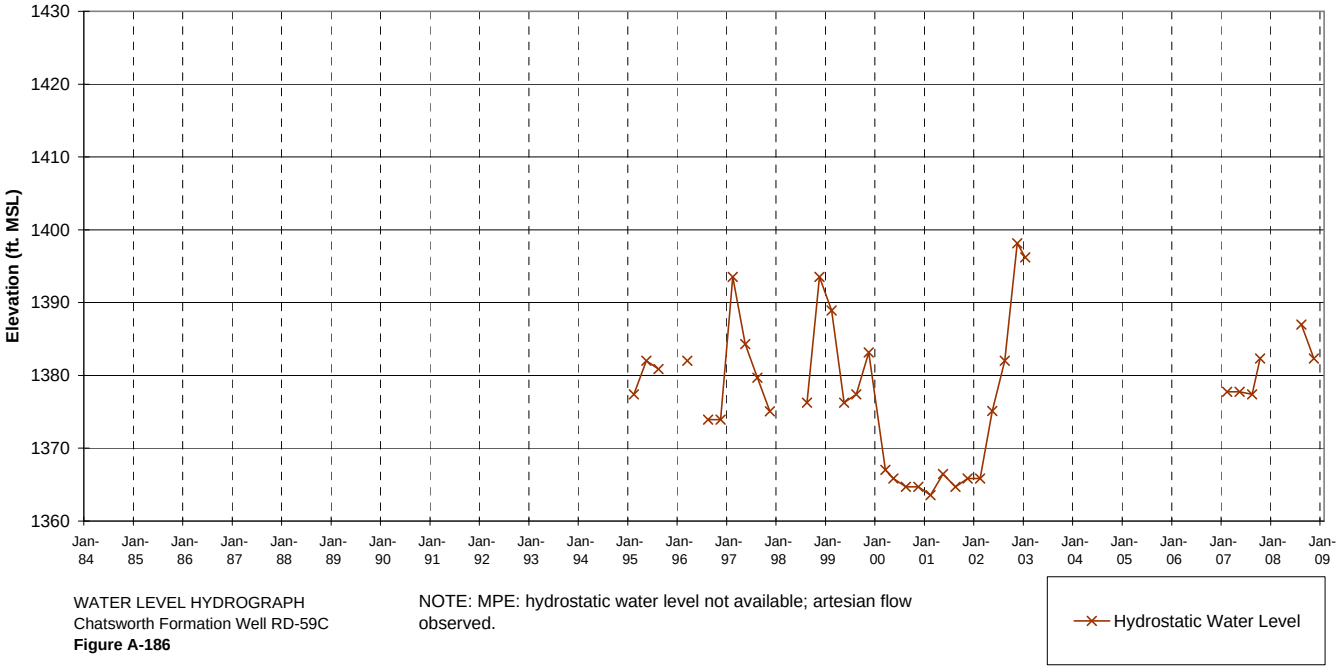


WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-59A
Figure A-184



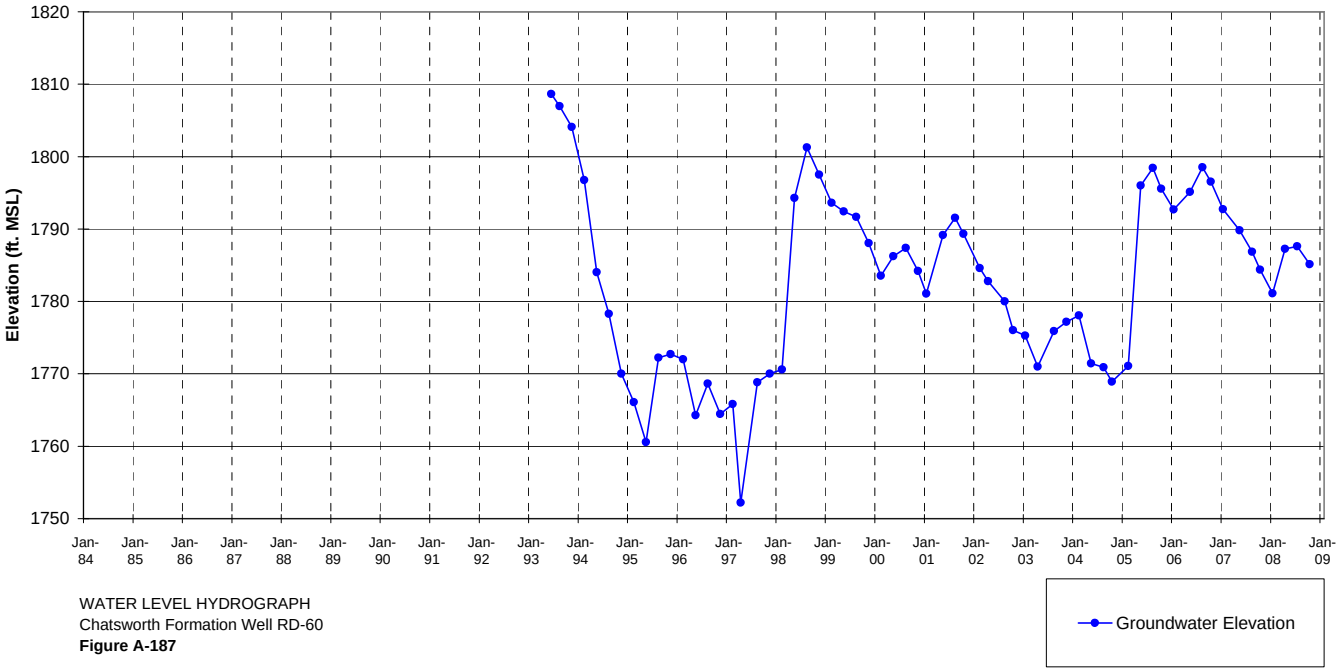
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-59B
Figure A-185

NOTE: MPE: hydrostatic water level not available; artesian flow observed.

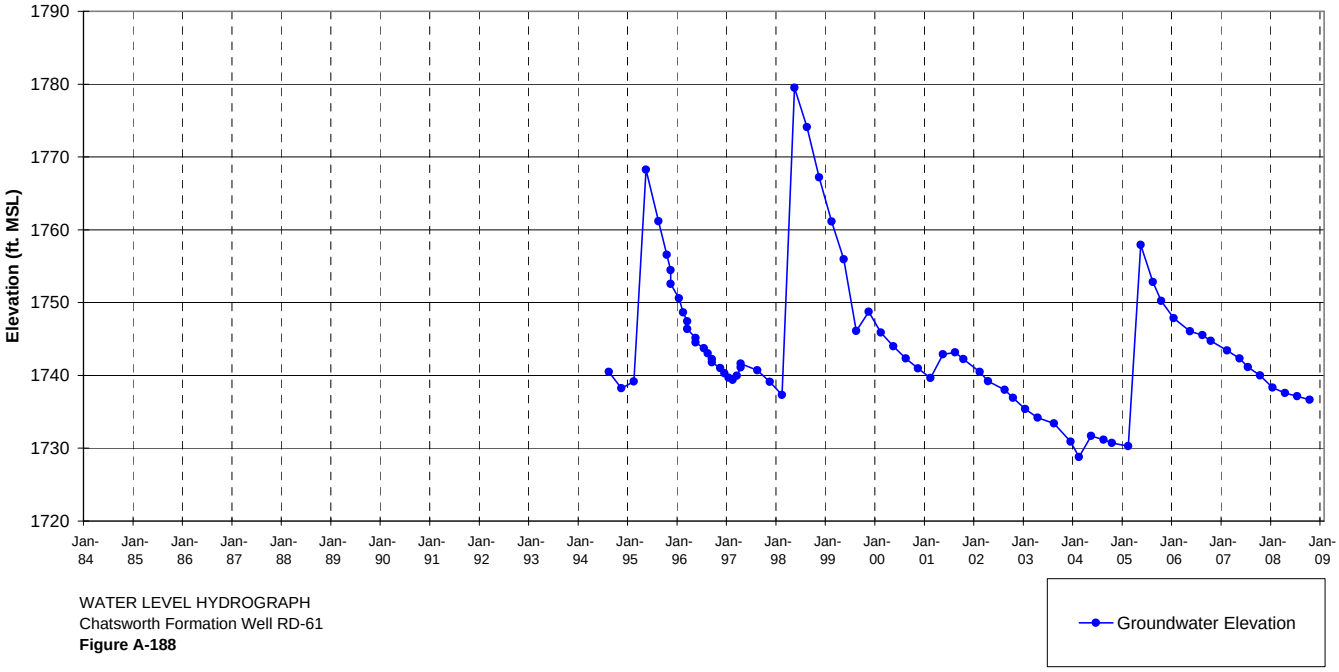


WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-59C
Figure A-186

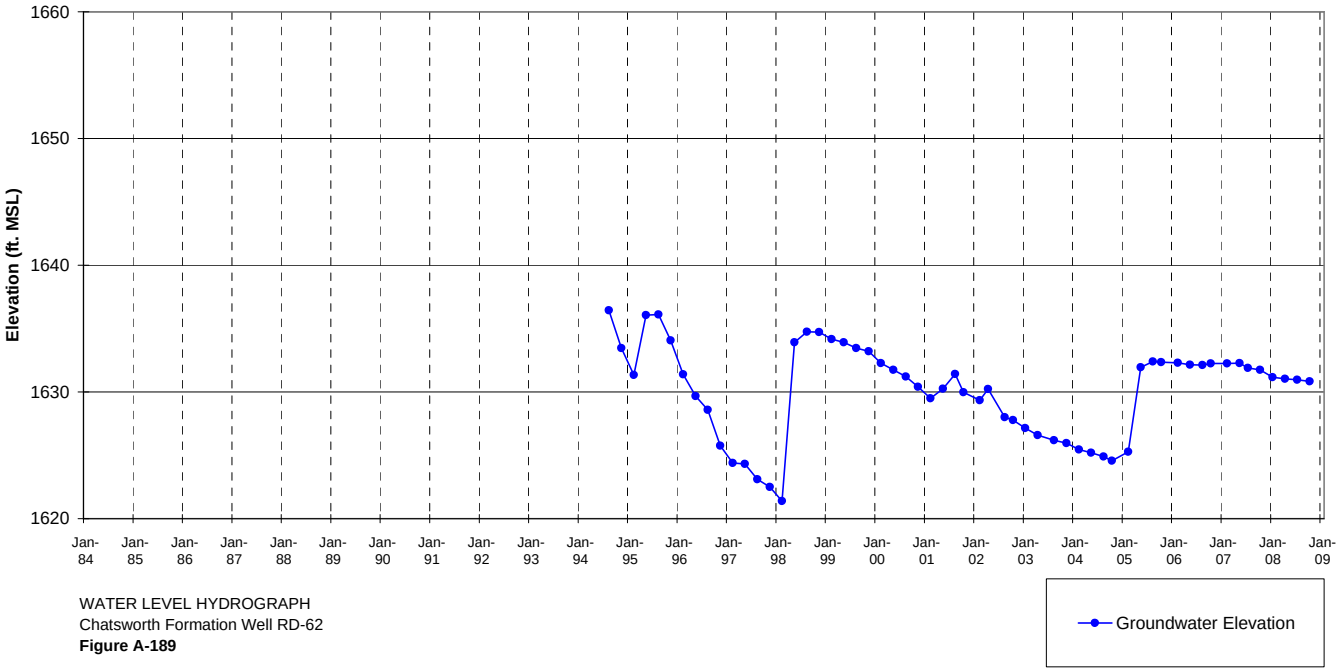
NOTE: MPE: hydrostatic water level not available; artesian flow observed.



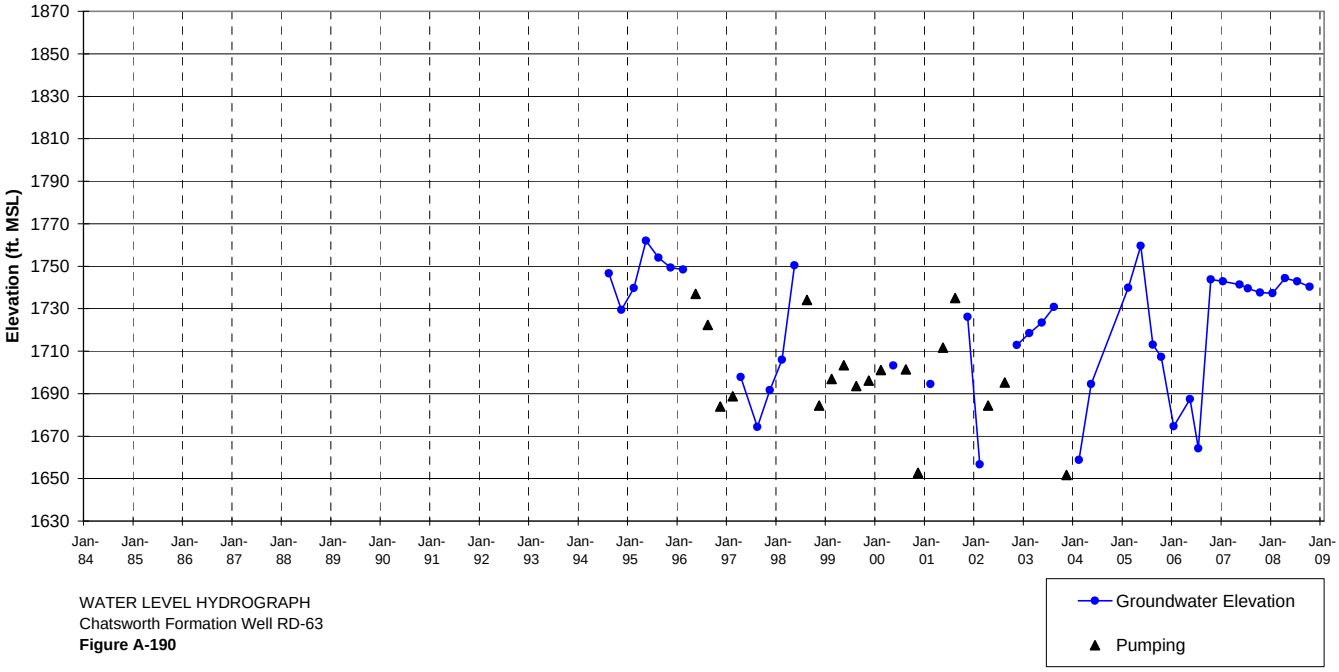
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-60
Figure A-187



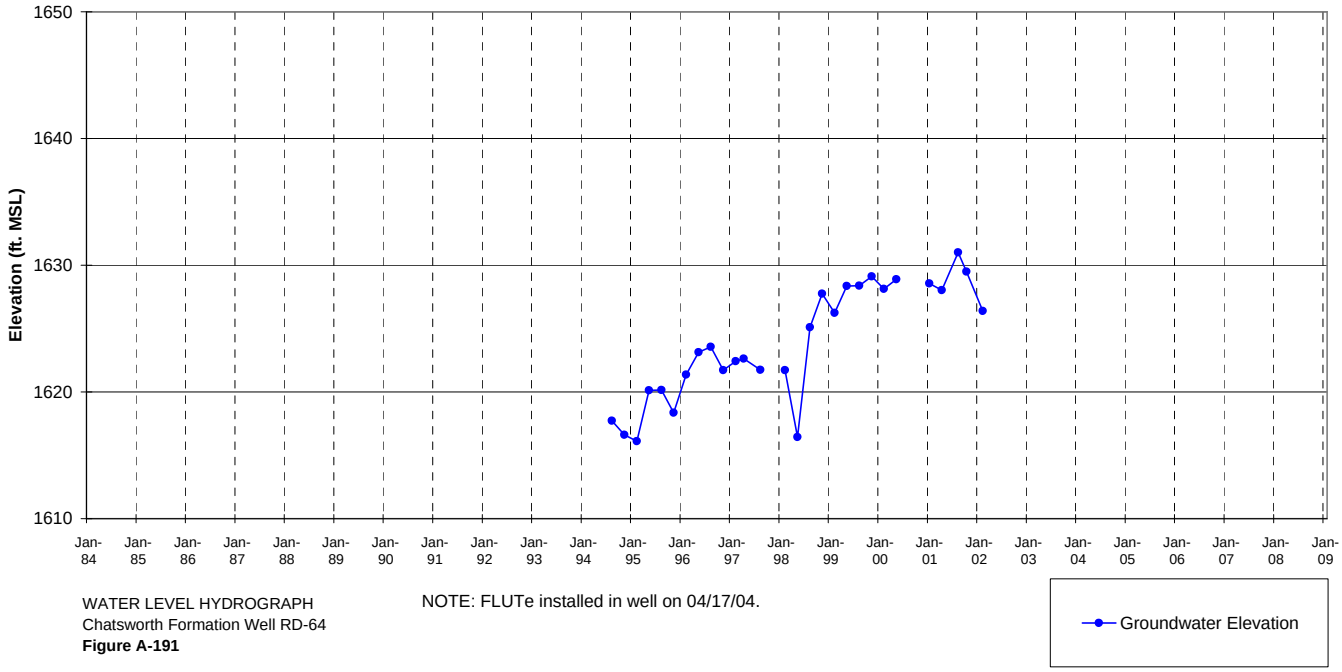
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-61
Figure A-188



WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-62
Figure A-189

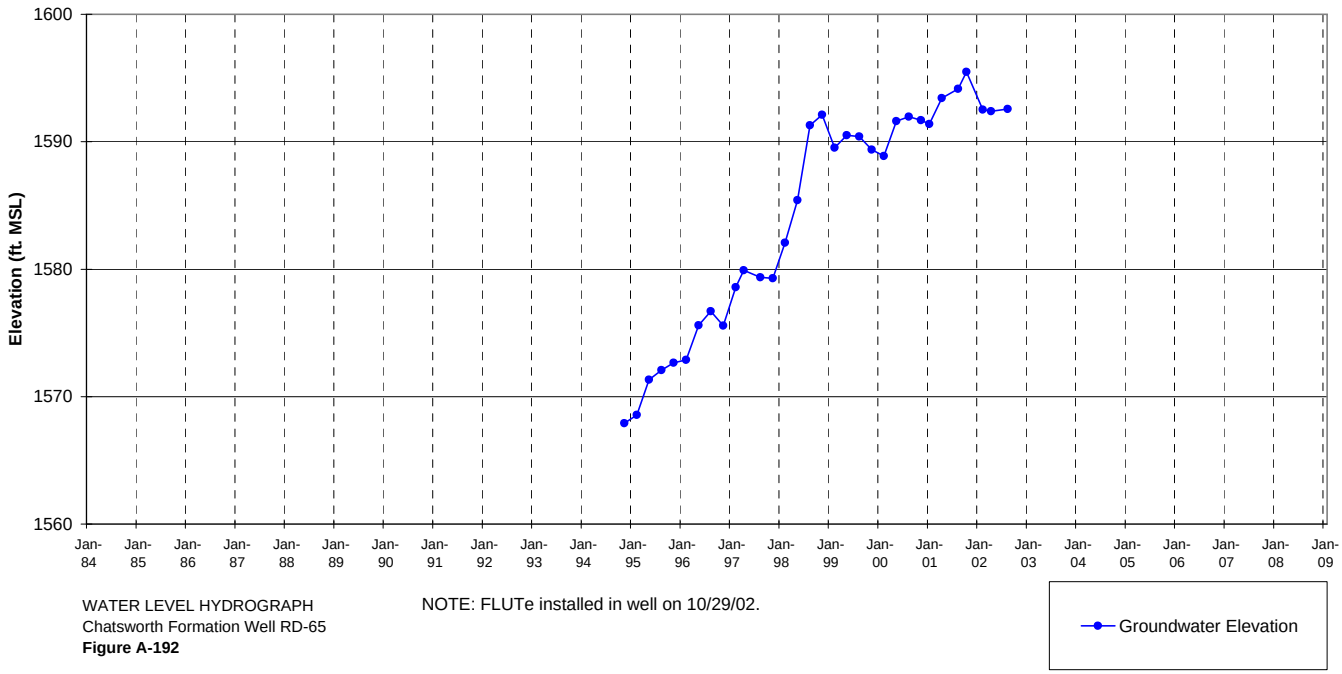


WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-63
Figure A-190



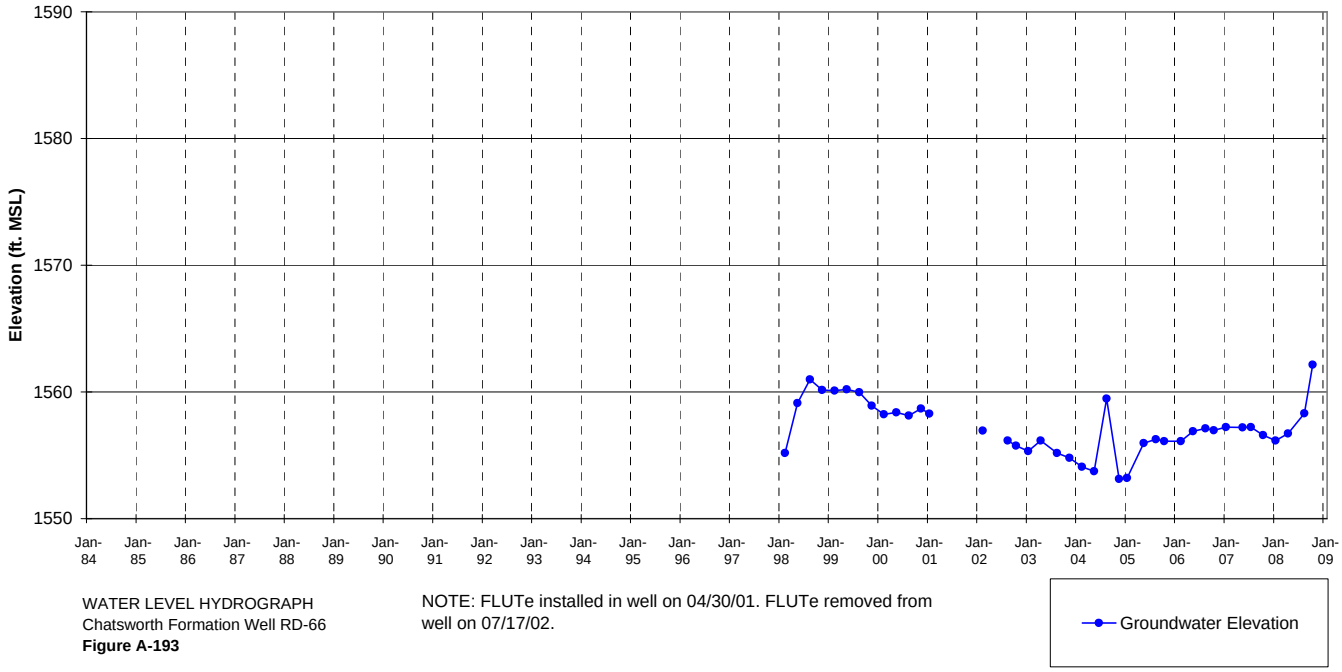
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-64
Figure A-191

NOTE: FLUTe installed in well on 04/17/04.



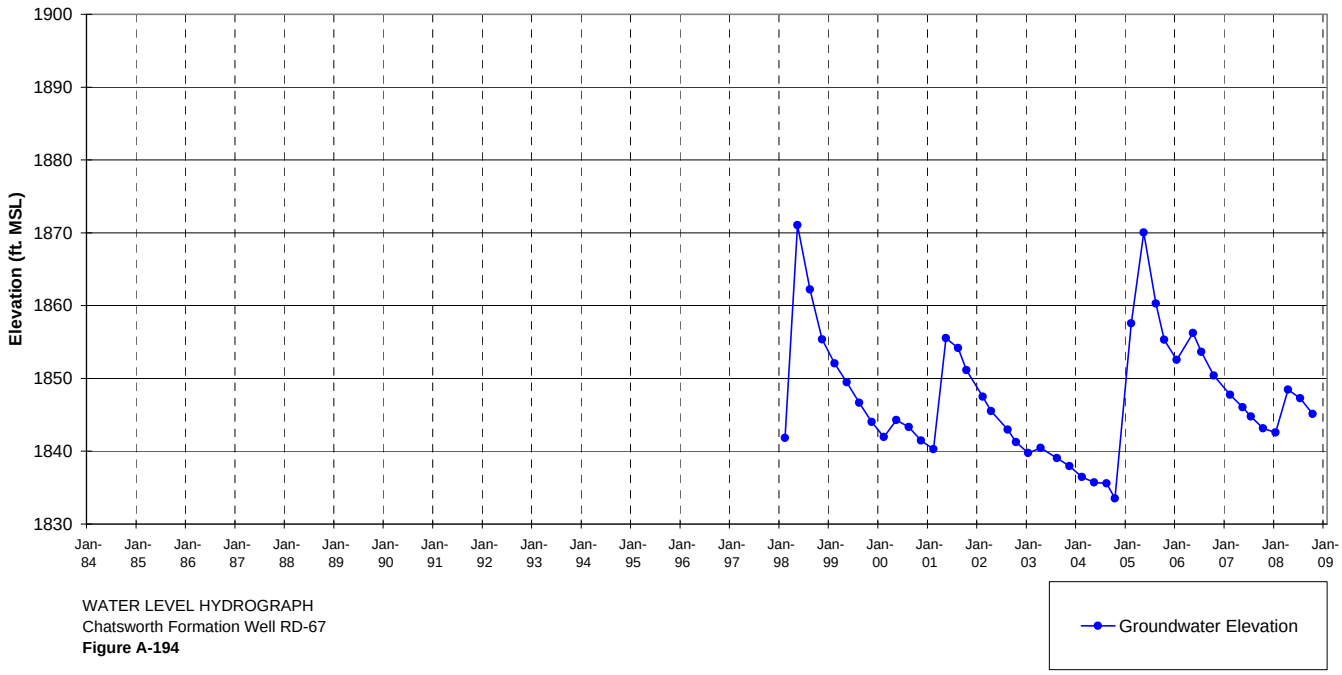
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-65
Figure A-192

NOTE: FLUTe installed in well on 10/29/02.

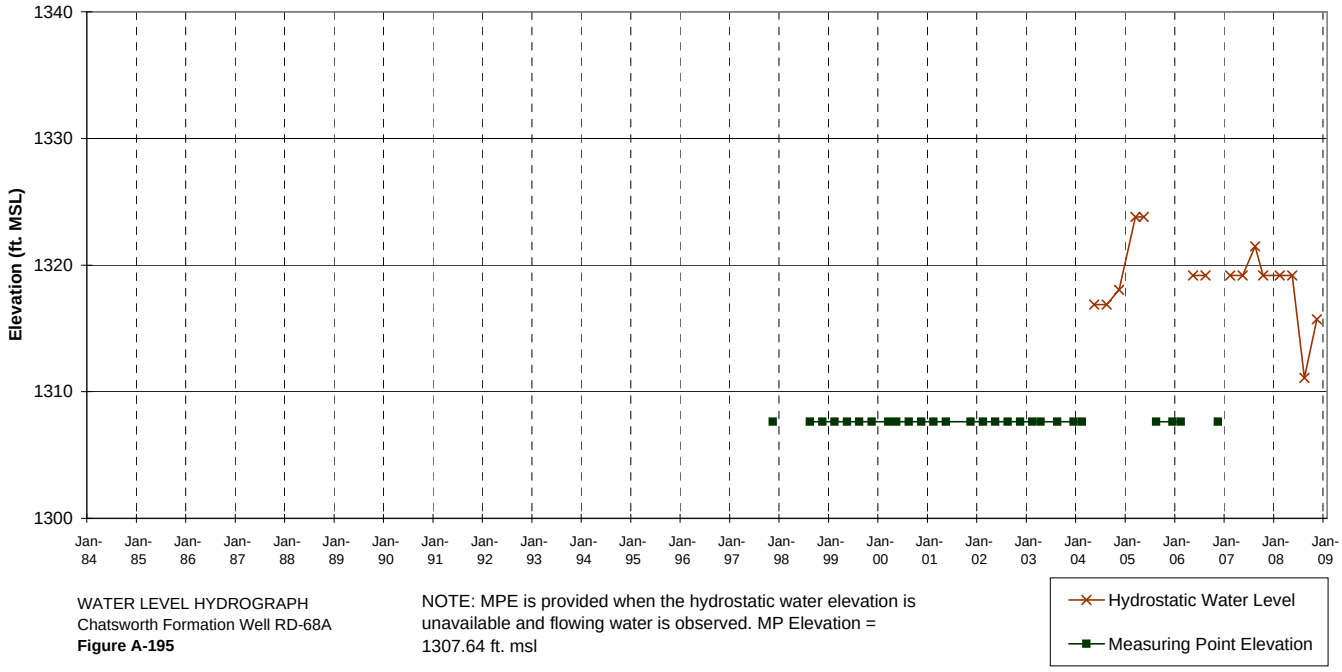


WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-66
Figure A-193

NOTE: FLUTe installed in well on 04/30/01. FLUTe removed from well on 07/17/02.

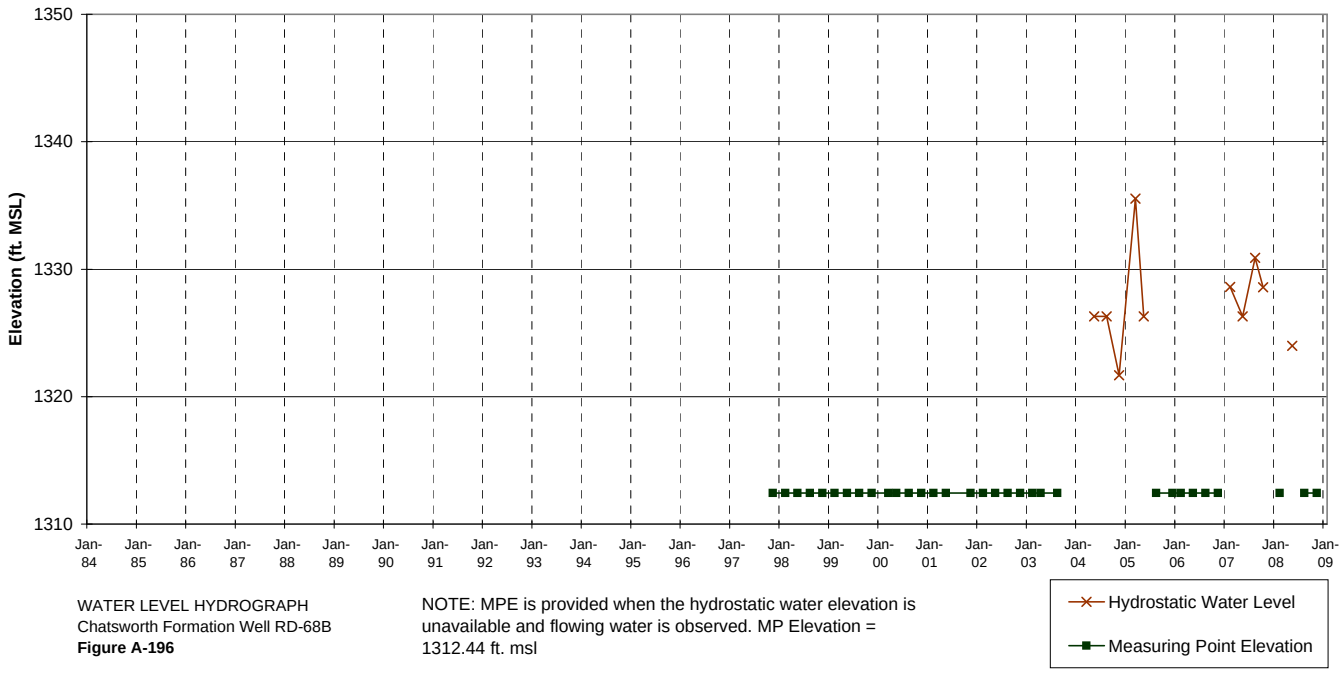


WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-67
Figure A-194



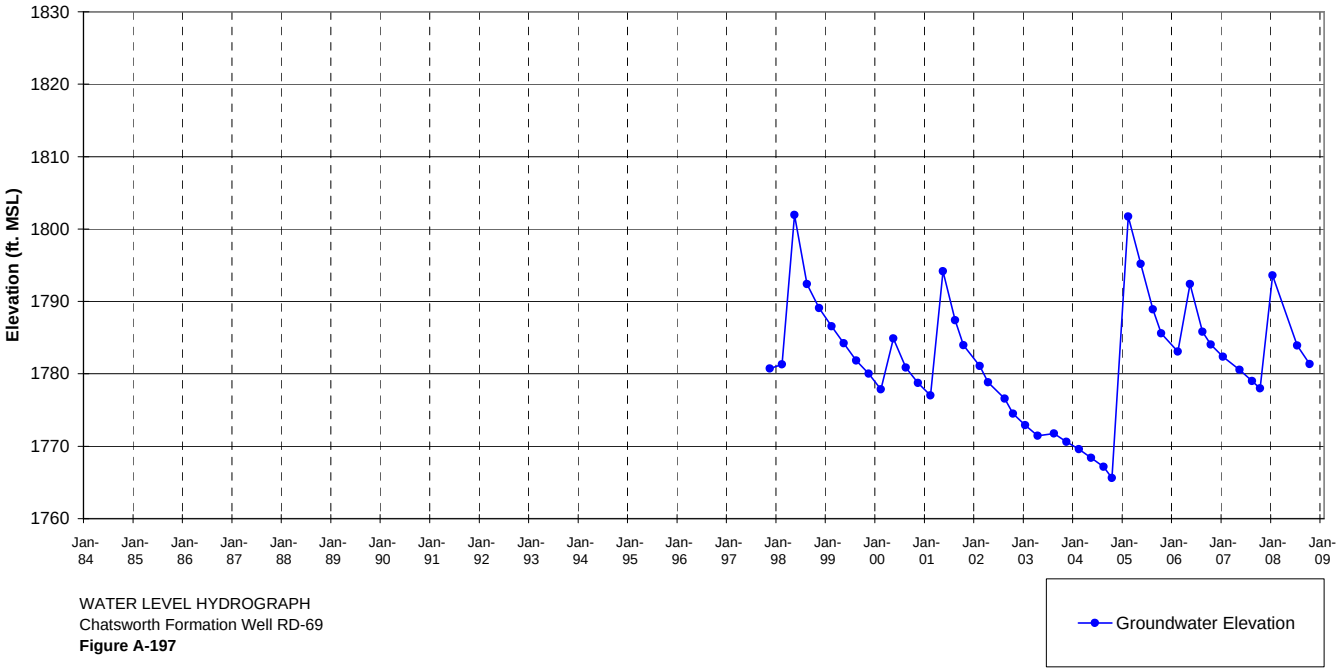
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-68A
Figure A-195

NOTE: MPE is provided when the hydrostatic water elevation is unavailable and flowing water is observed. MP Elevation = 1307.64 ft. msl

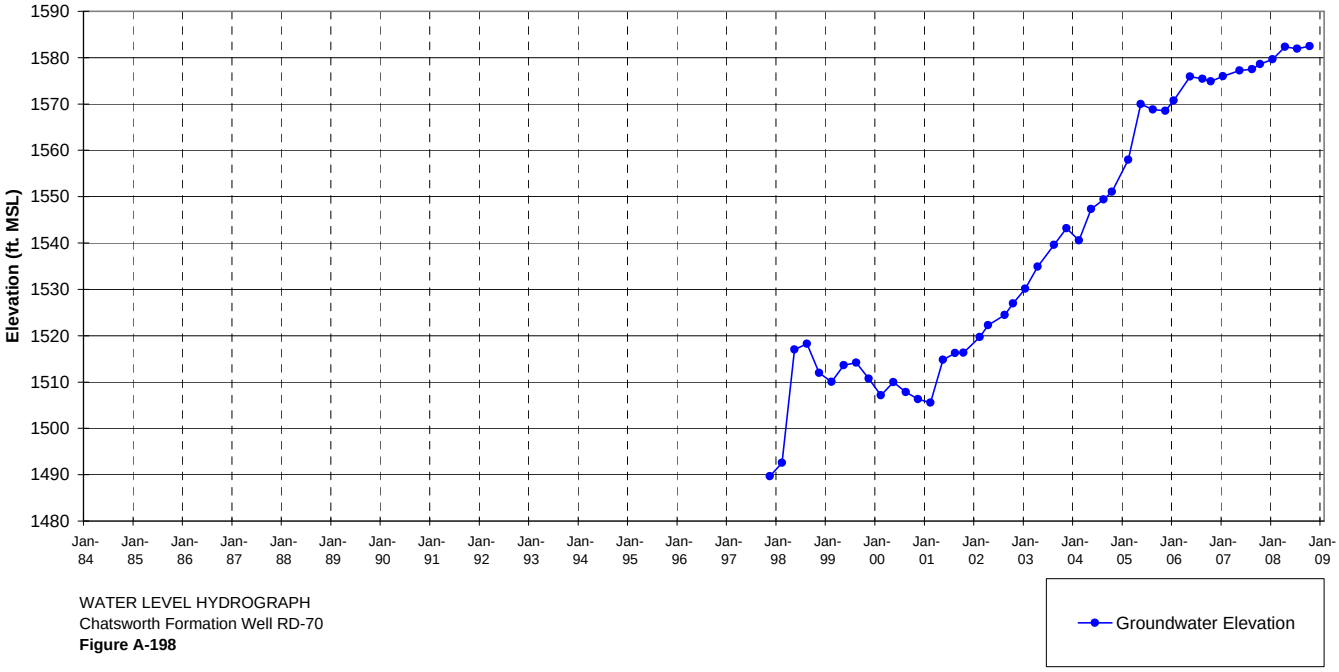


WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-68B
Figure A-196

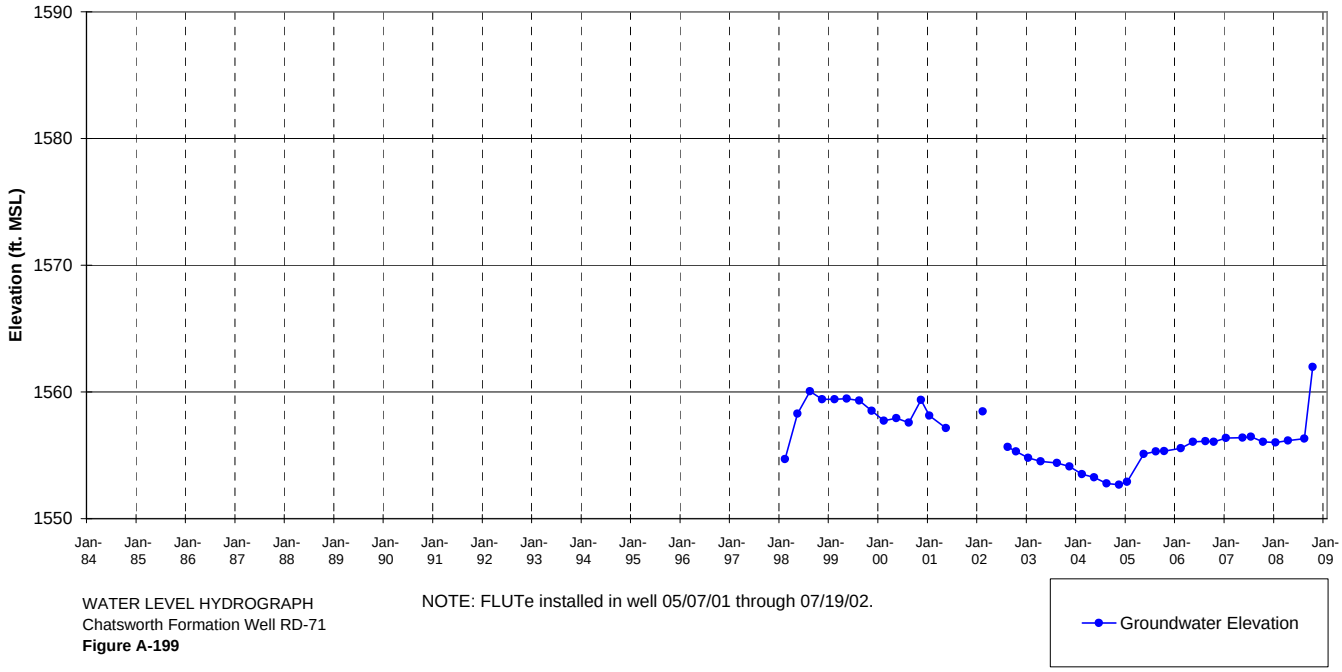
NOTE: MPE is provided when the hydrostatic water elevation is unavailable and flowing water is observed. MP Elevation = 1312.44 ft. msl



WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-69
Figure A-197

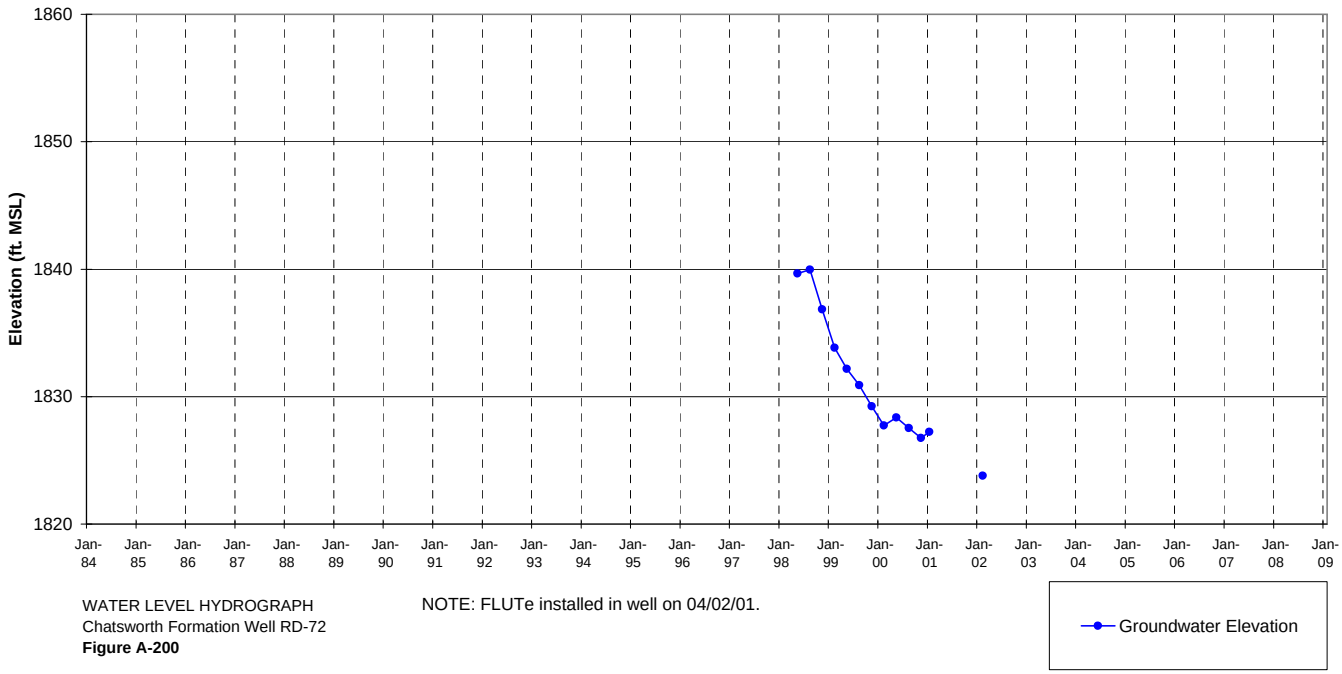


WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-70
Figure A-198



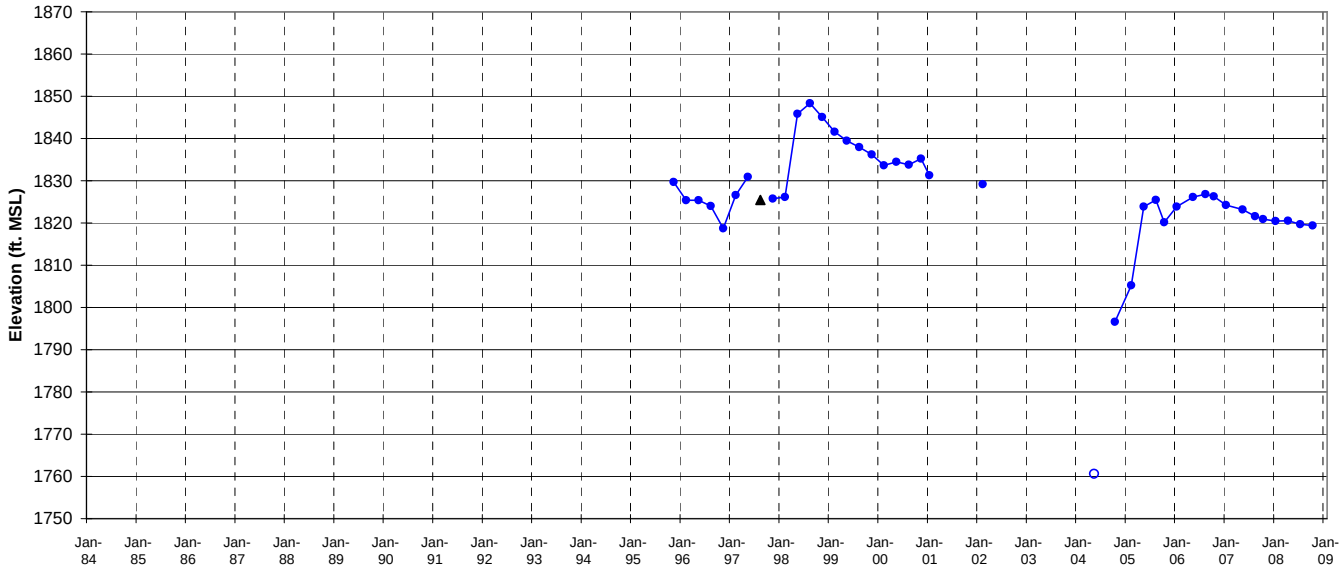
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-71
Figure A-199

NOTE: FLUTe installed in well 05/07/01 through 07/19/02.



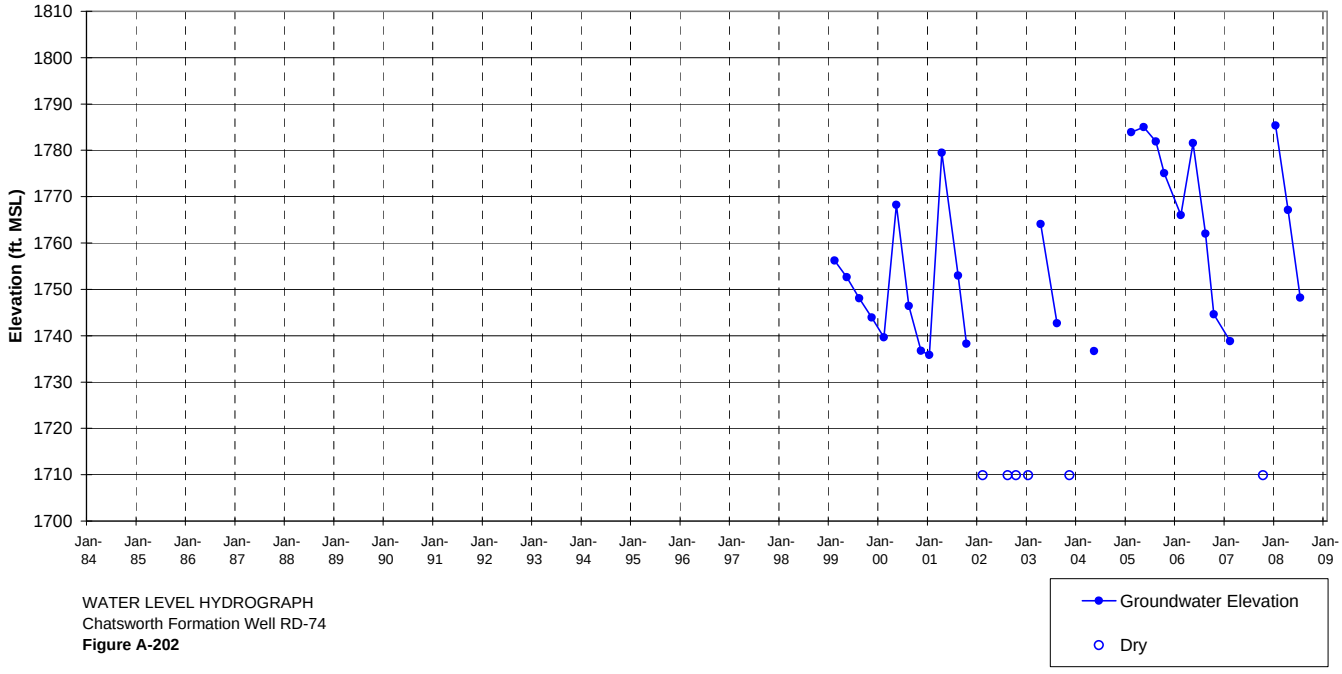
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-72
Figure A-200

NOTE: FLUTe installed in well on 04/02/01.

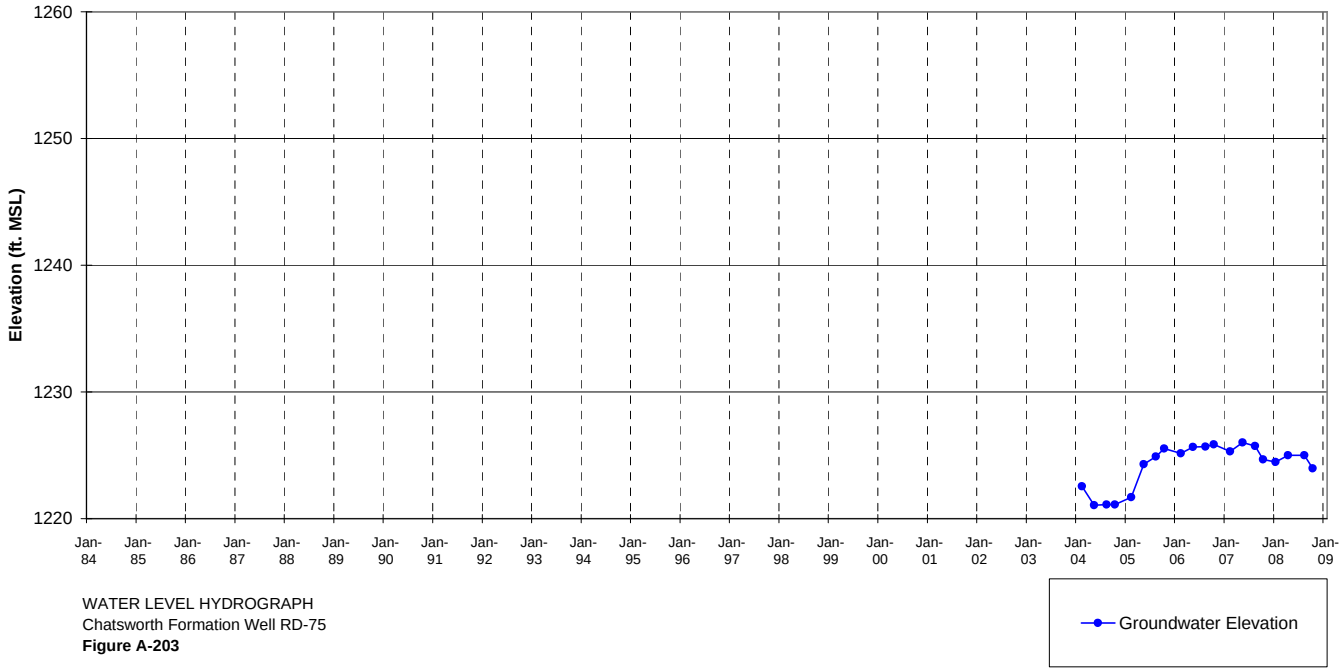


WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-73
Figure A-201

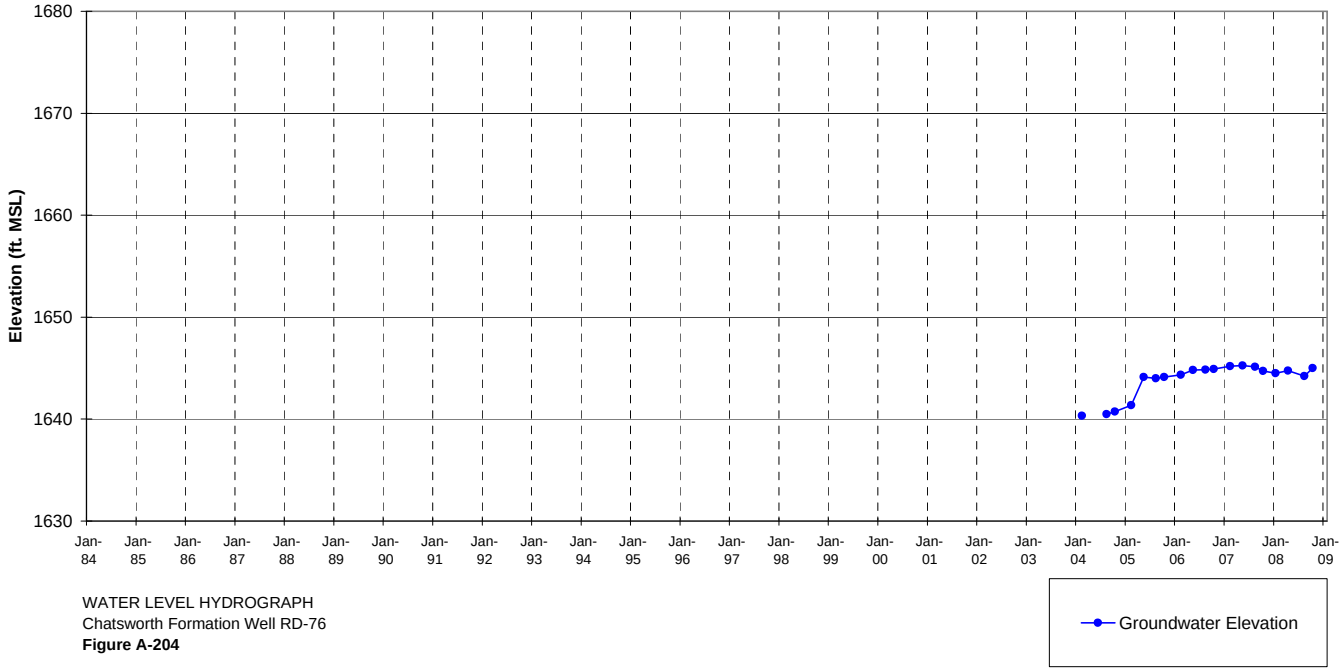
NOTE: FLUTe installed in well 02/02/01 through 07/28/04.



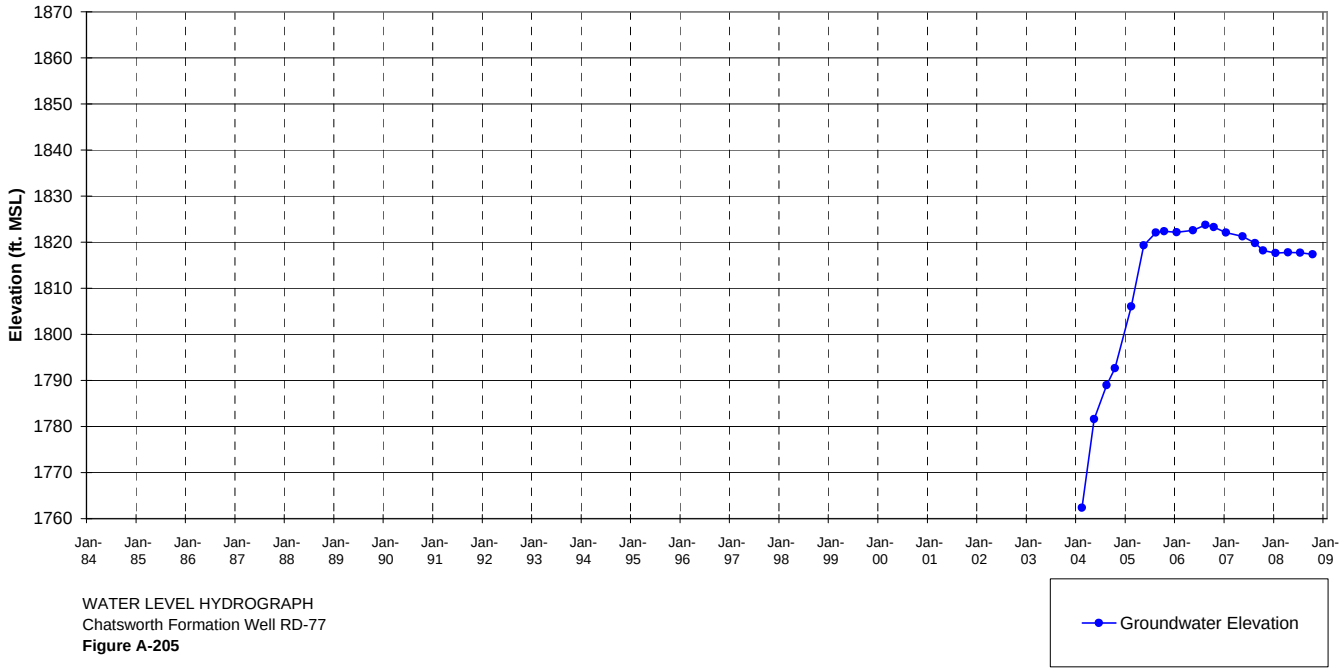
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-74
Figure A-202



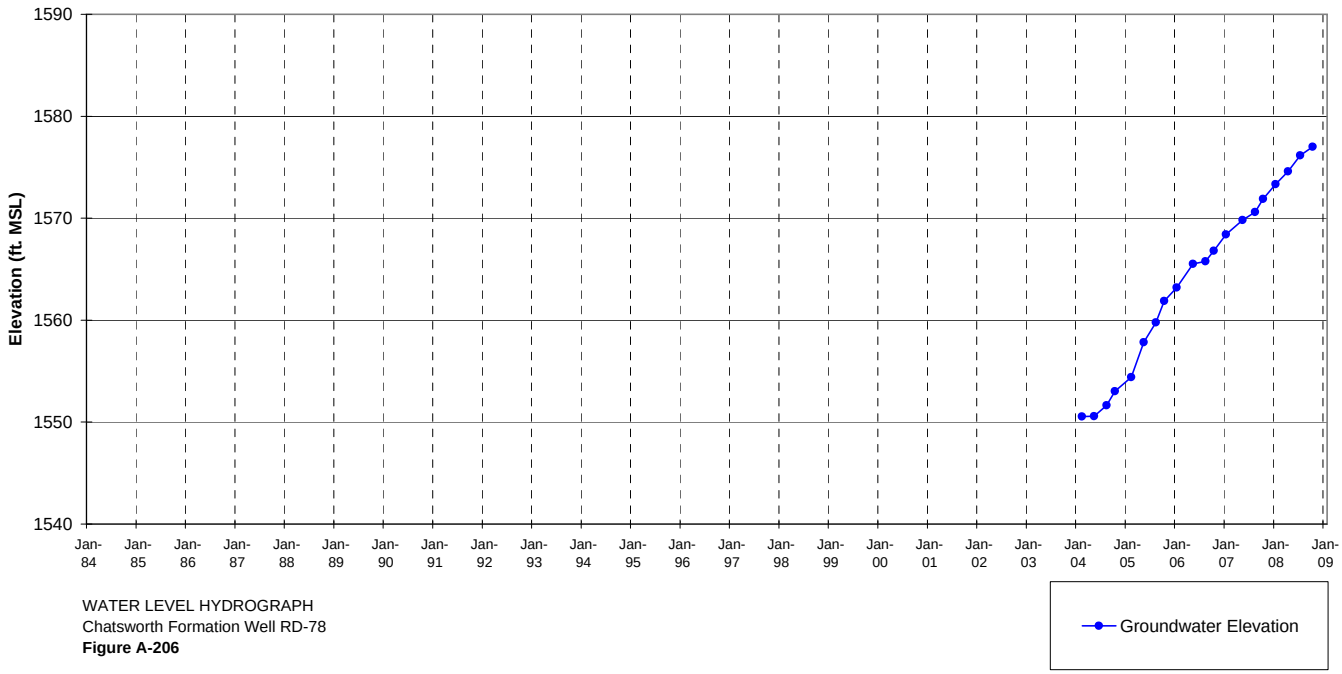
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-75
Figure A-203



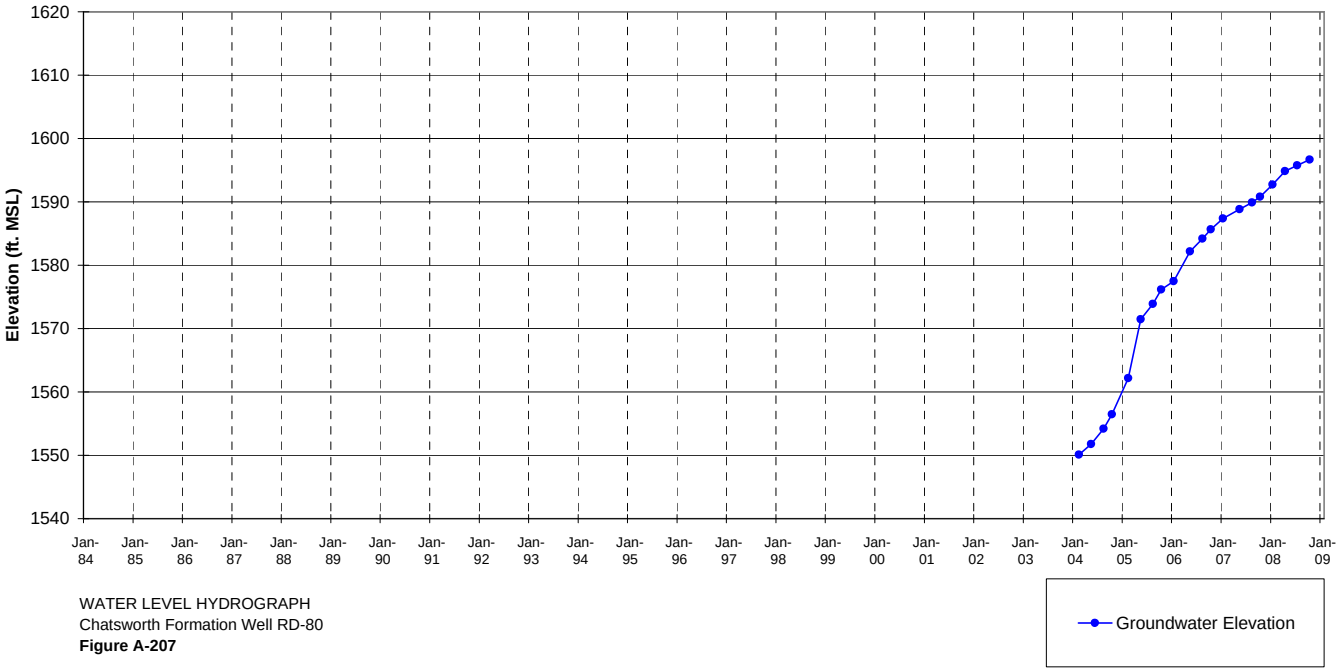
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-76
Figure A-204



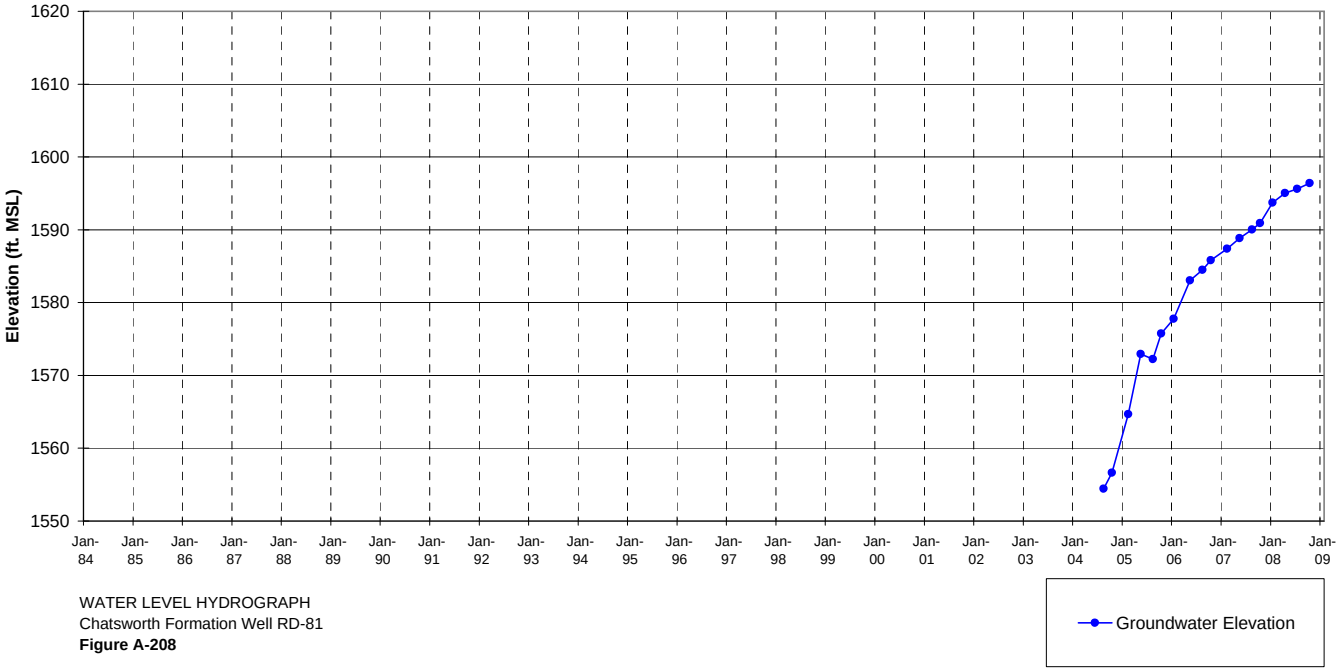
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-77
Figure A-205



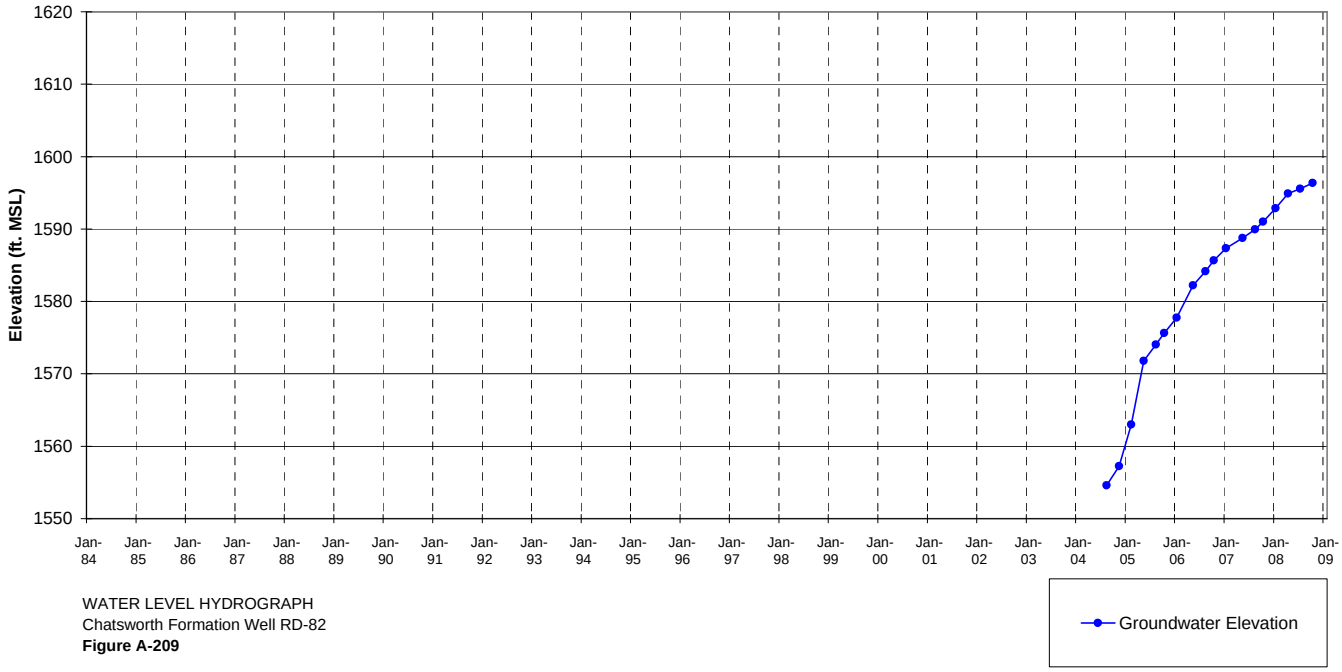
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-78
Figure A-206



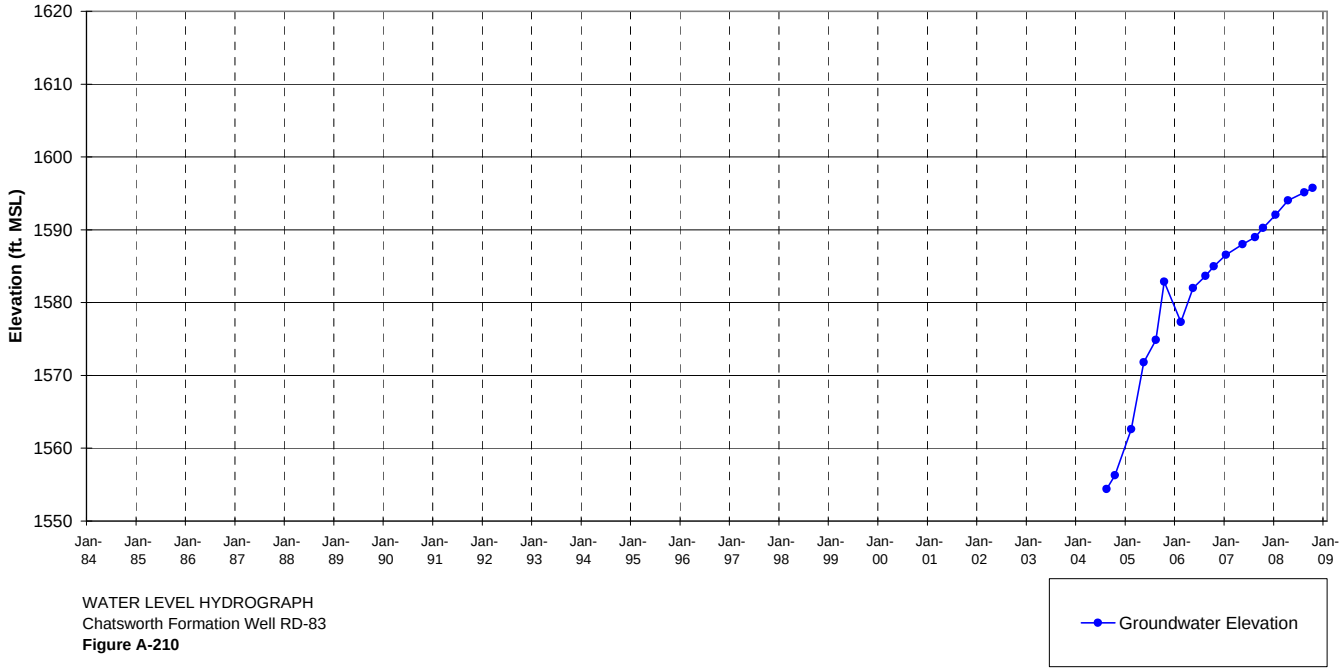
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-80
Figure A-207



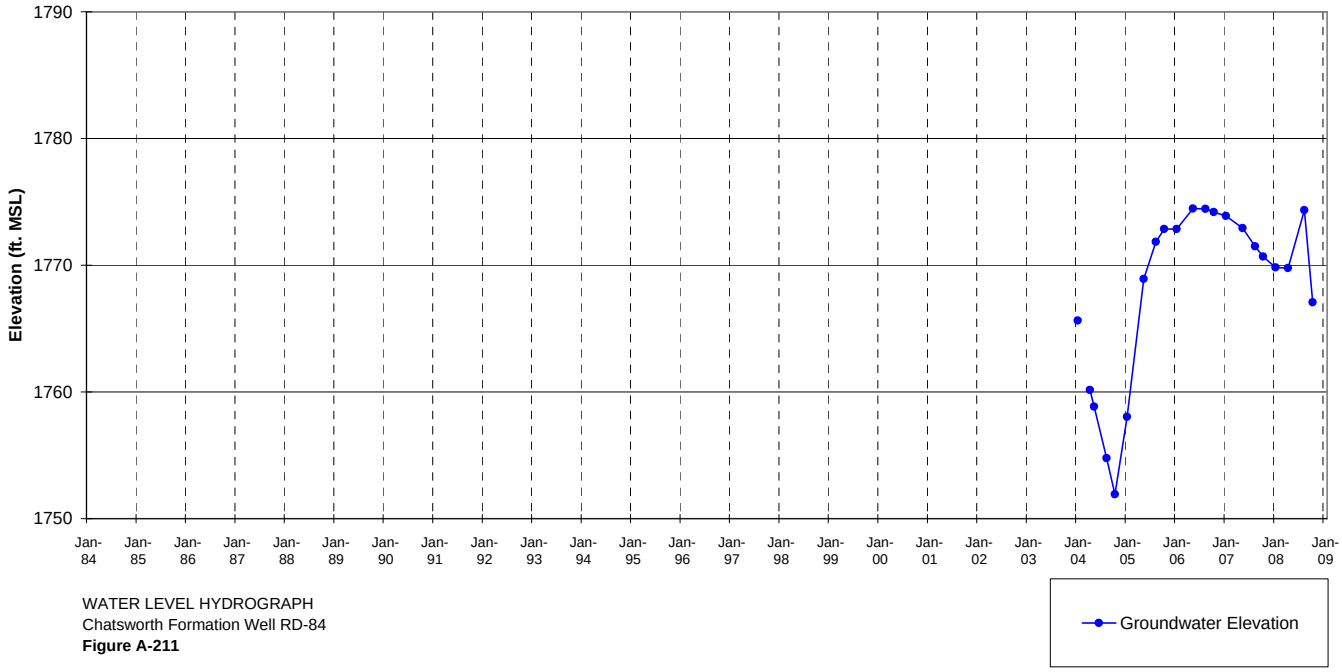
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-81
Figure A-208



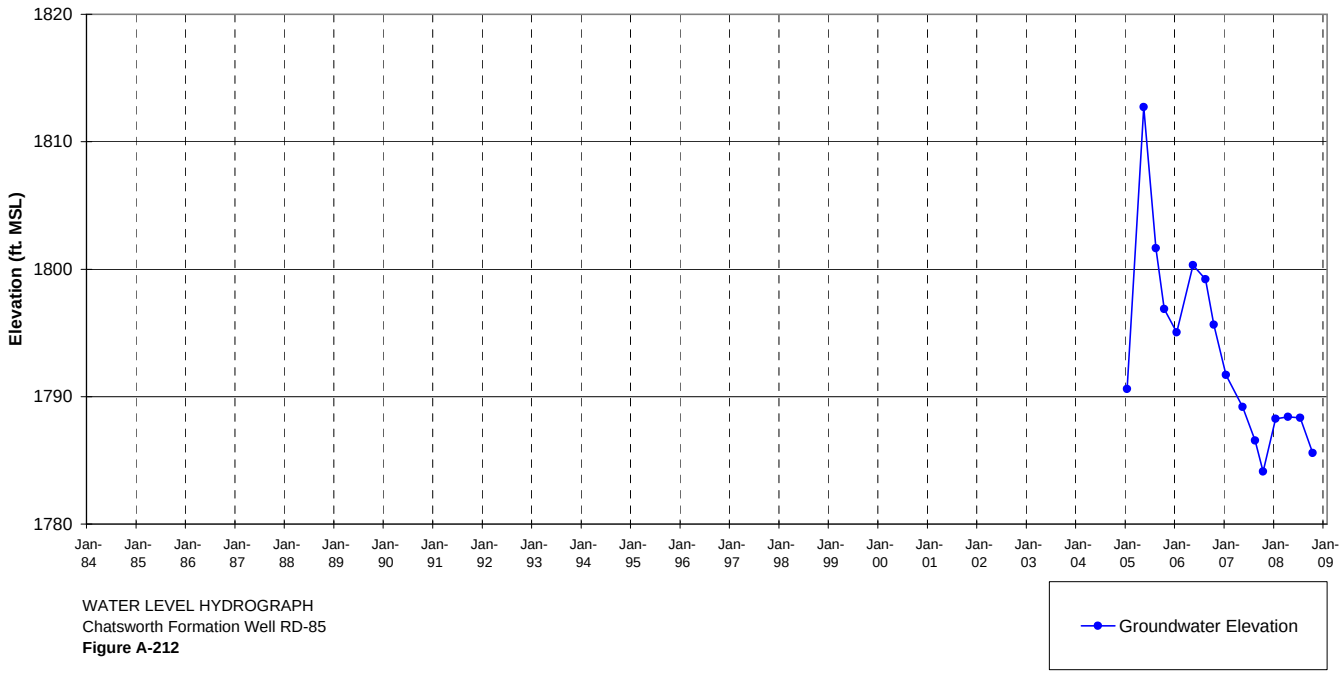
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-82
Figure A-209



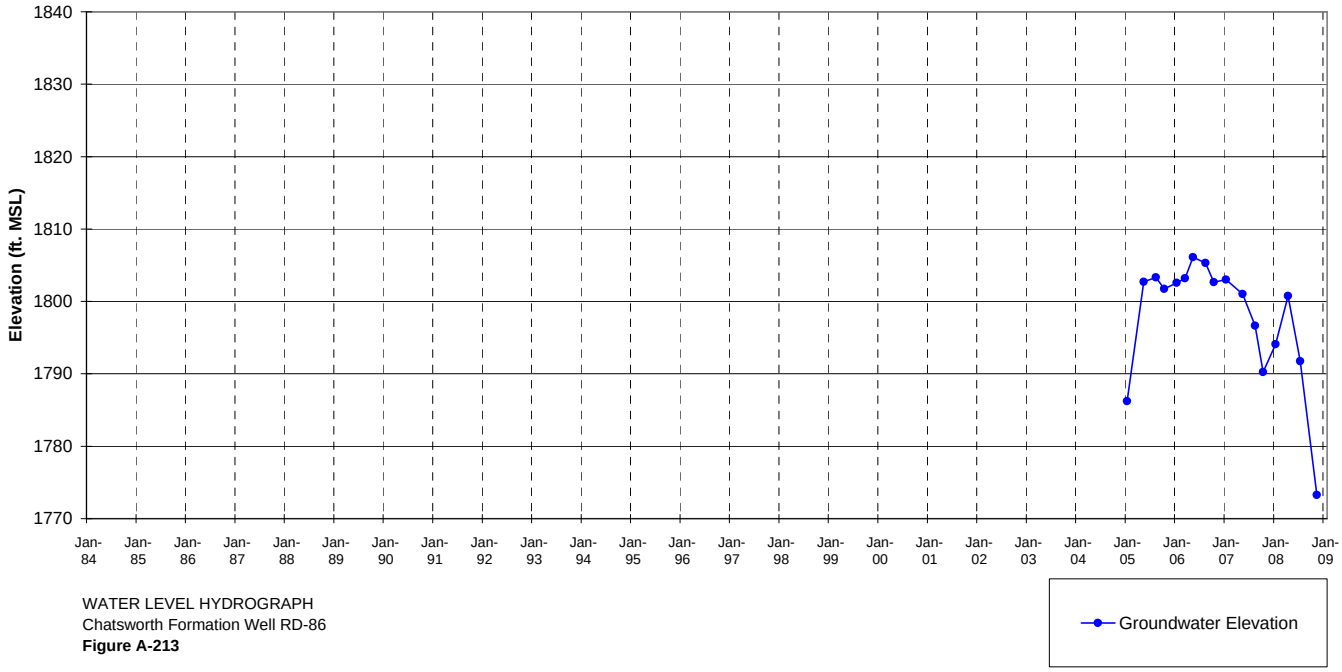
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-83
Figure A-210



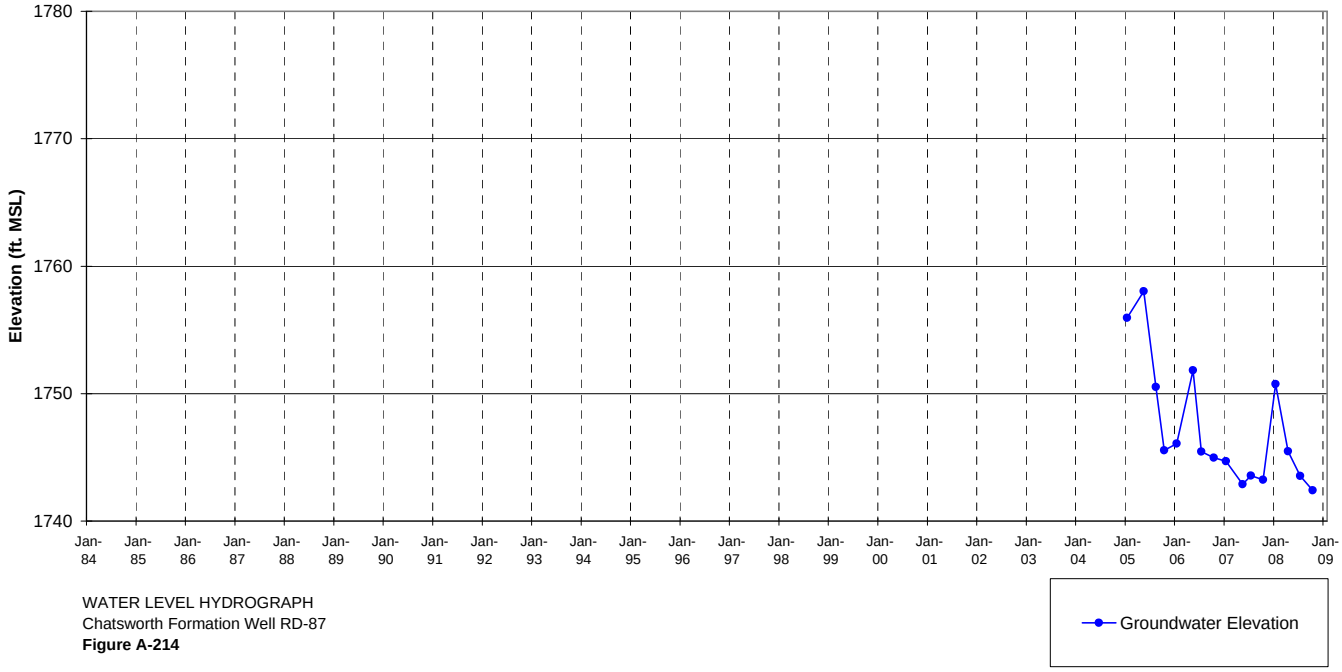
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-84
Figure A-211



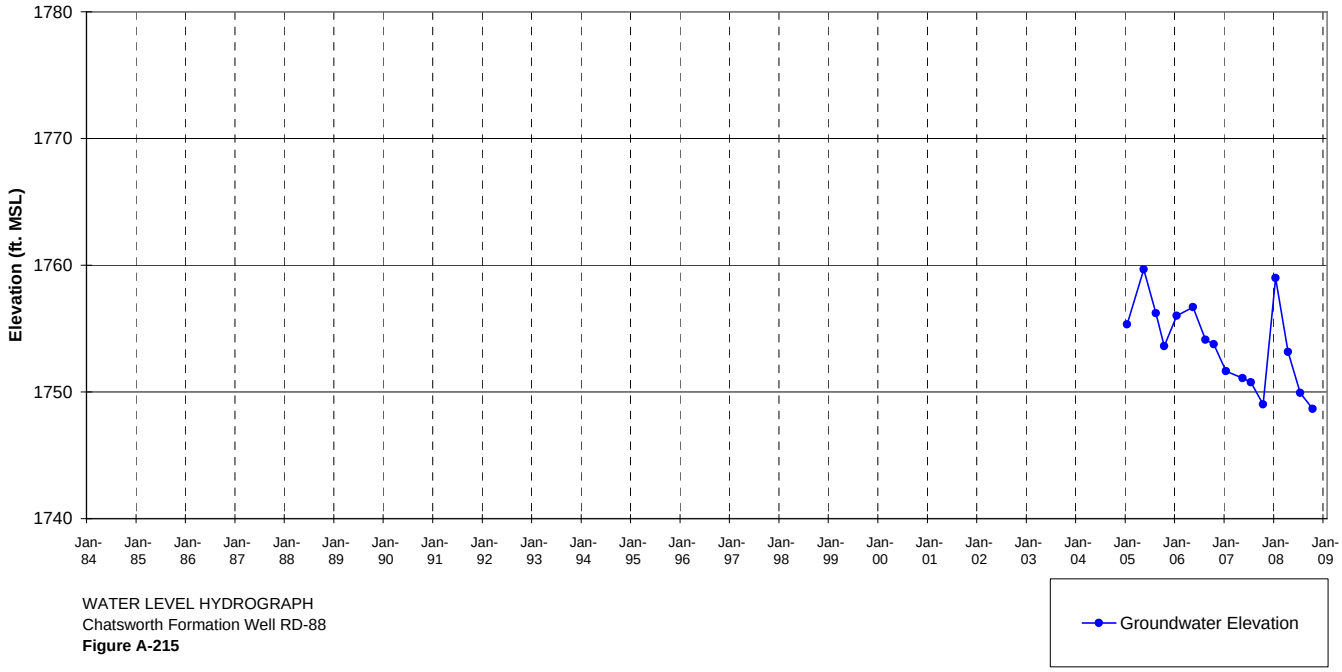
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-85
Figure A-212



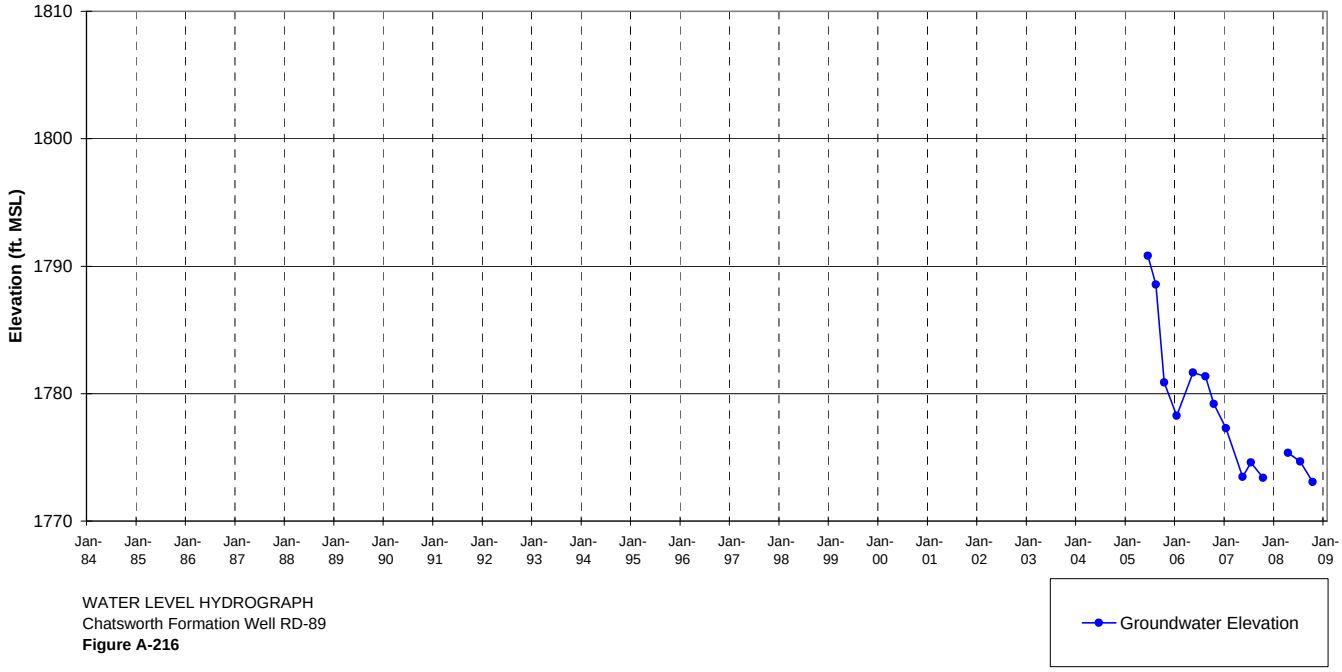
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-86
Figure A-213



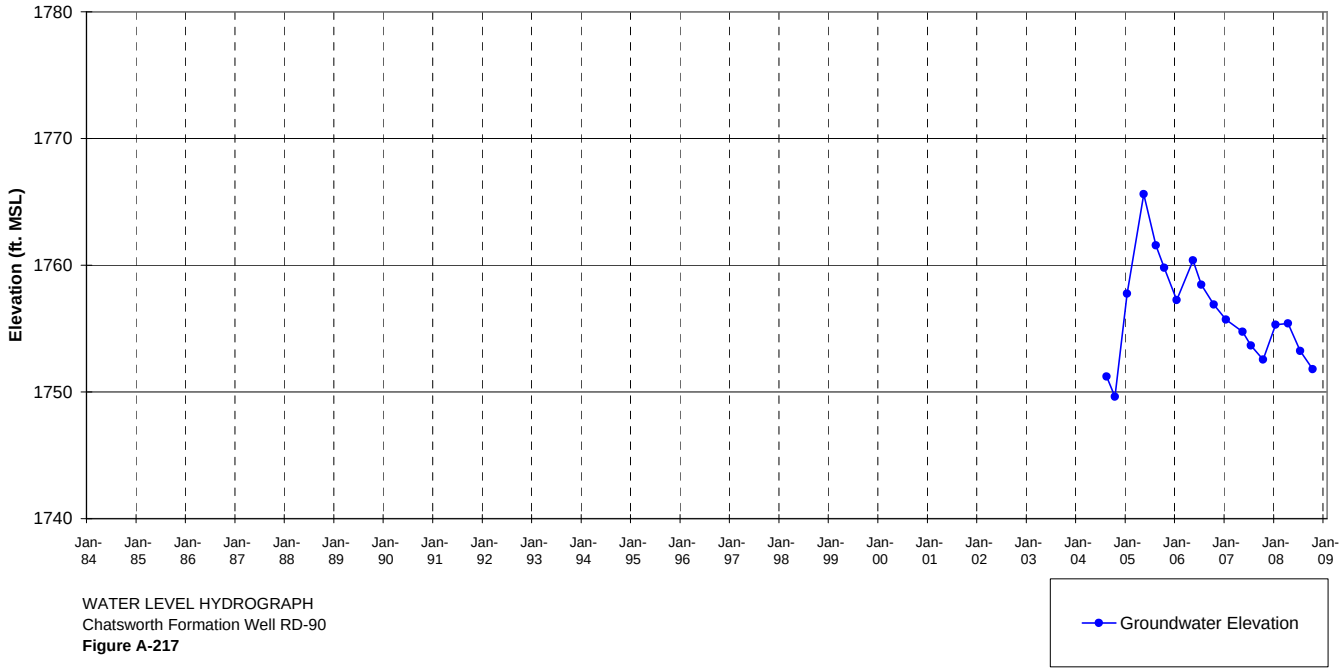
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-87
Figure A-214



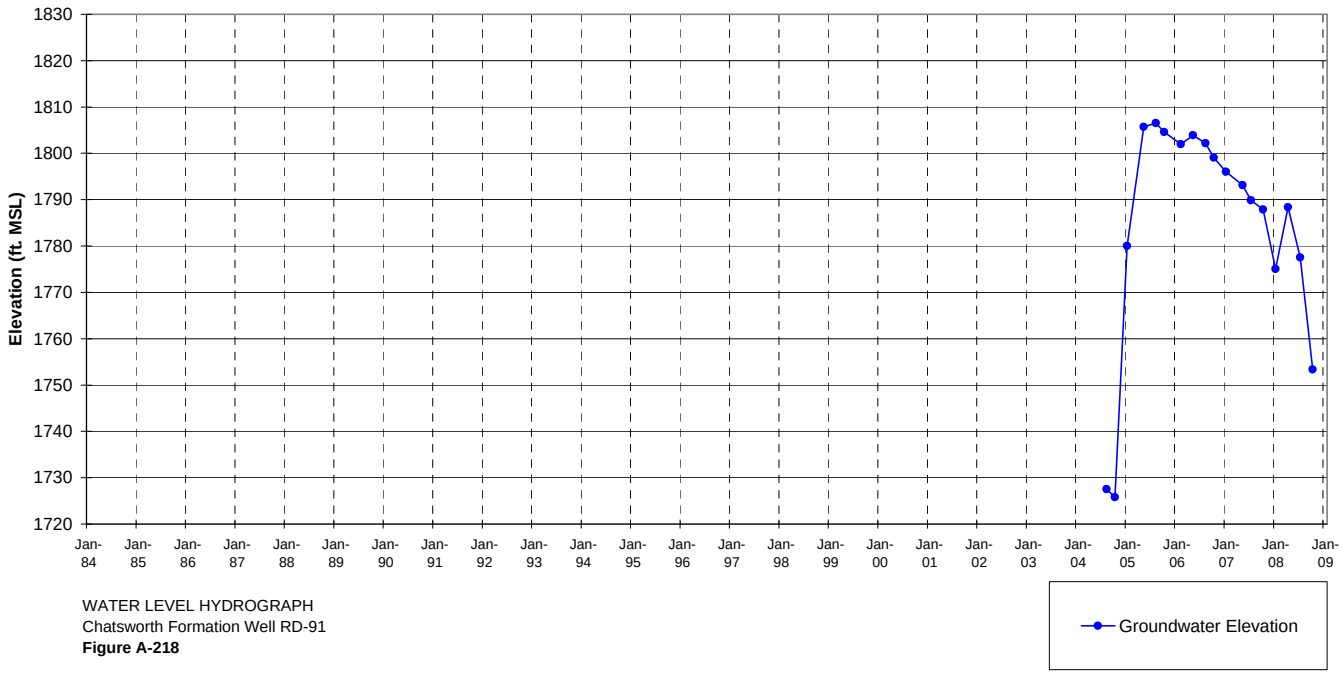
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-88
Figure A-215



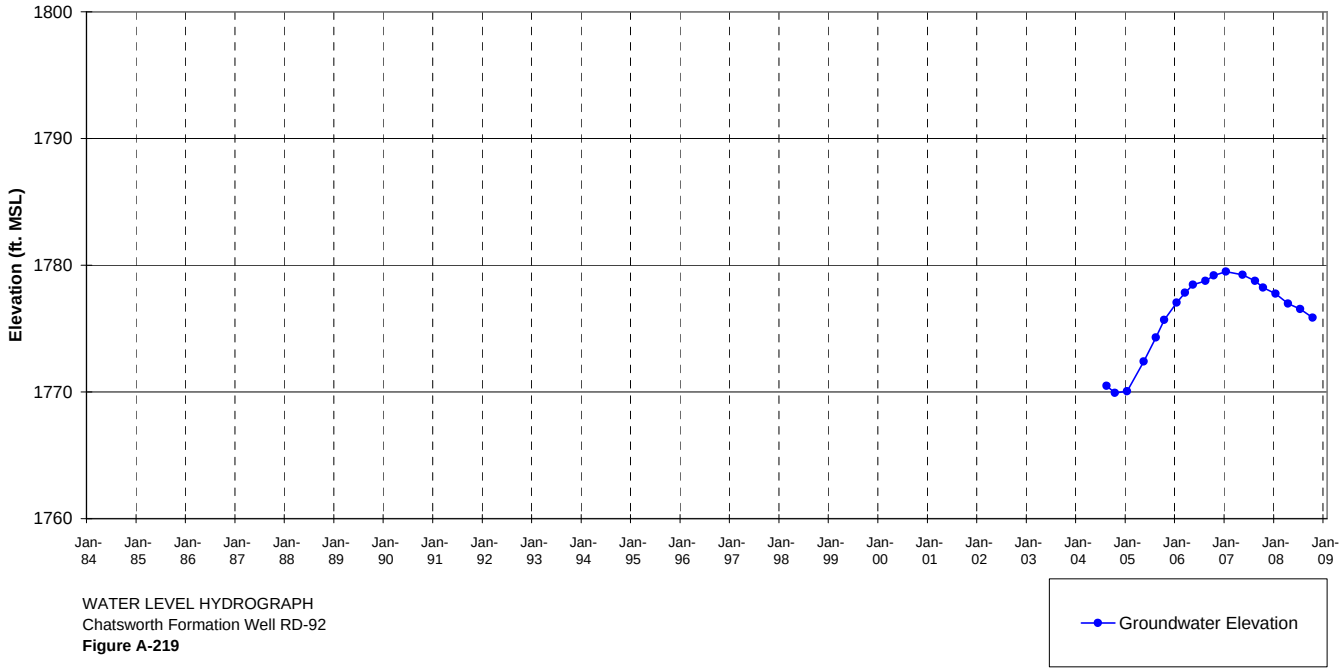
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-89
Figure A-216



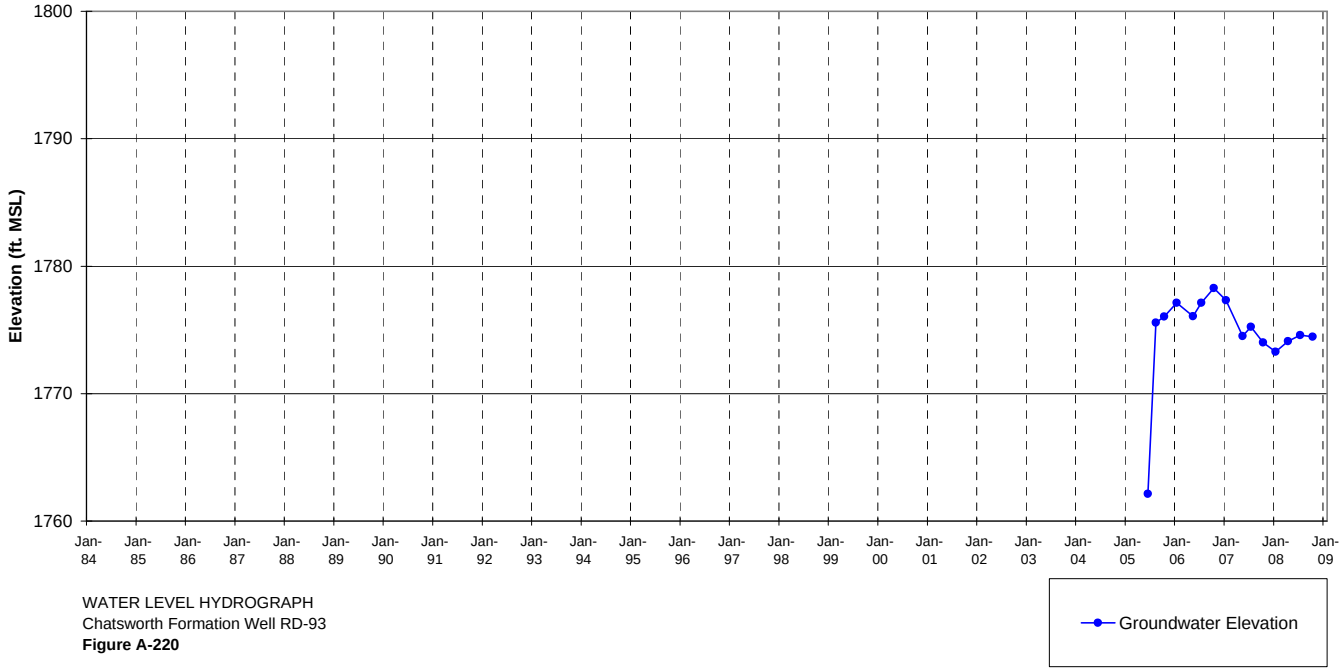
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-90
Figure A-217



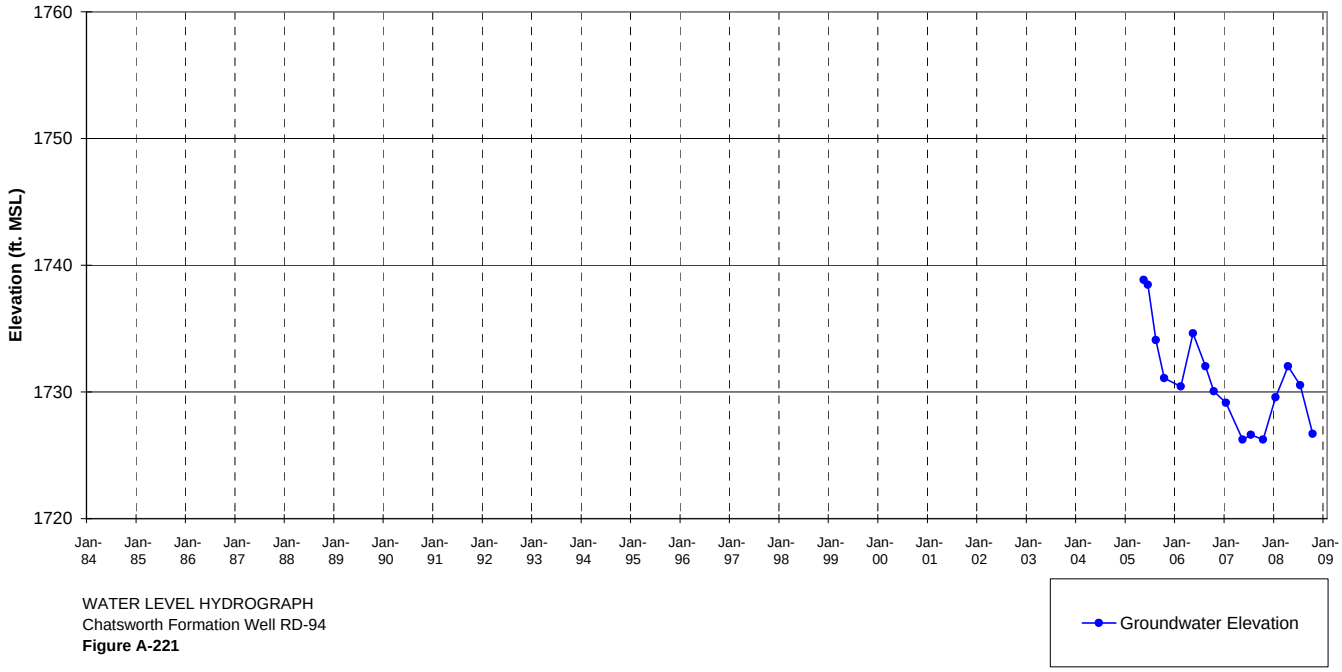
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-91
Figure A-218



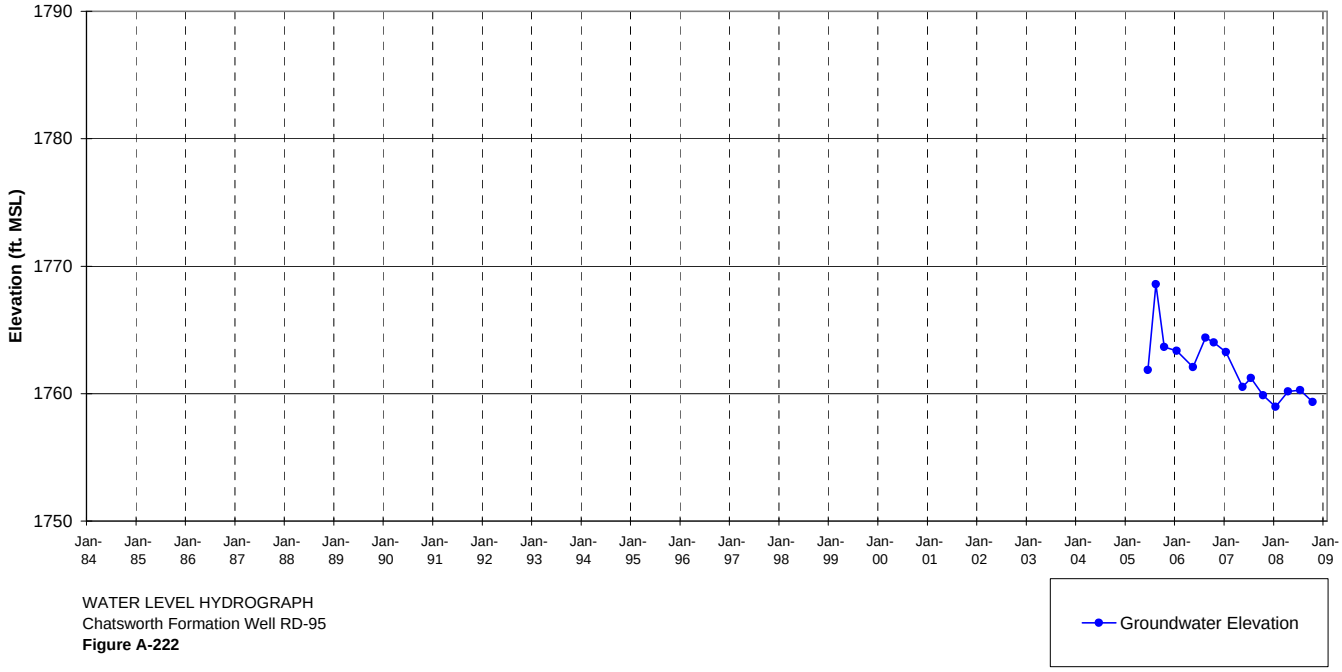
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-92
Figure A-219



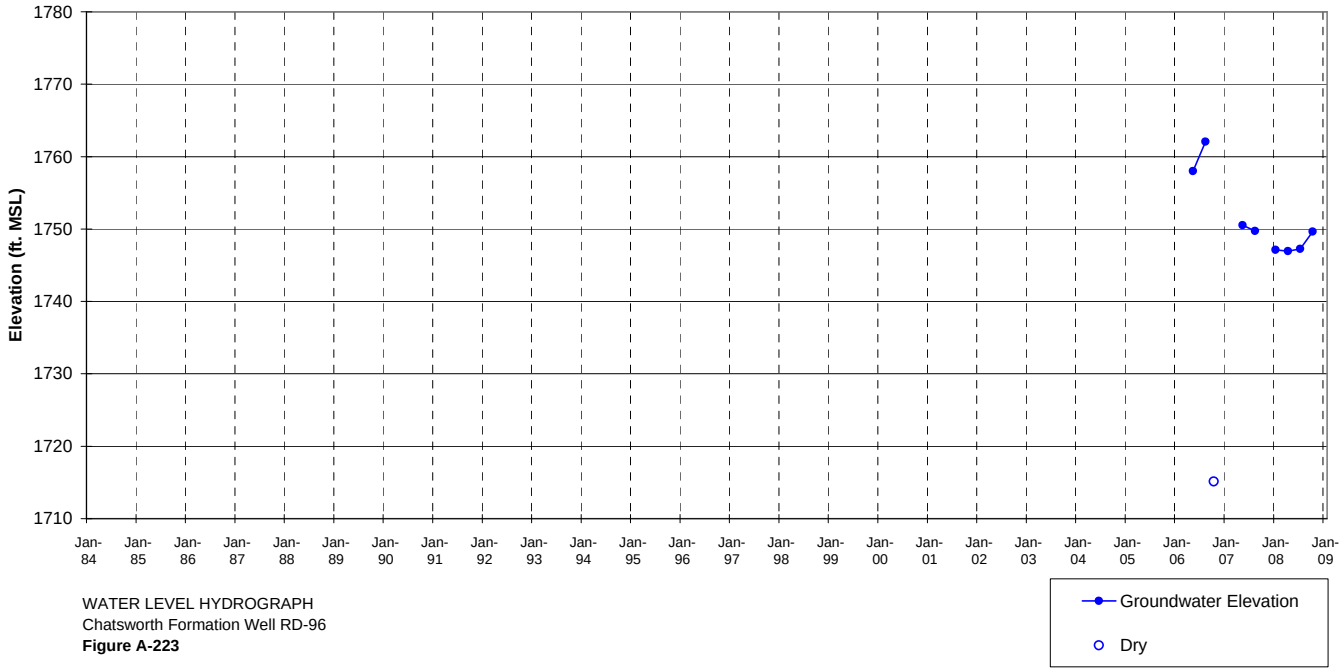
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-93
Figure A-220



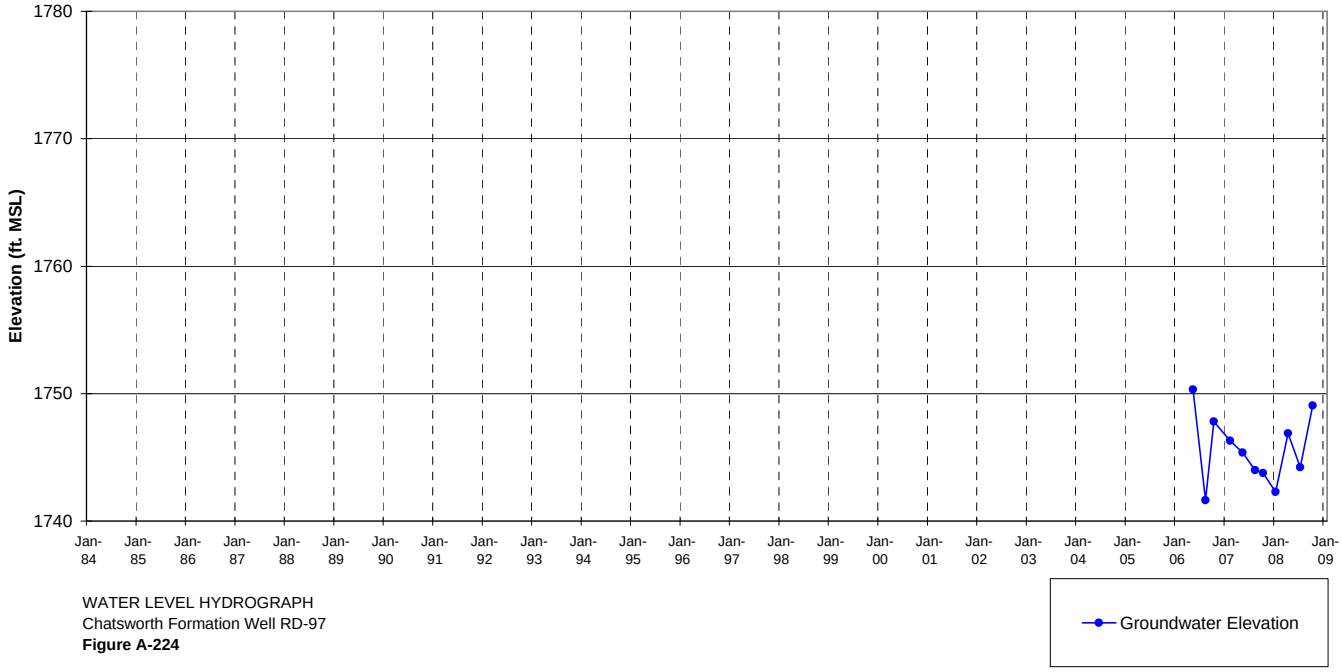
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-94
Figure A-221



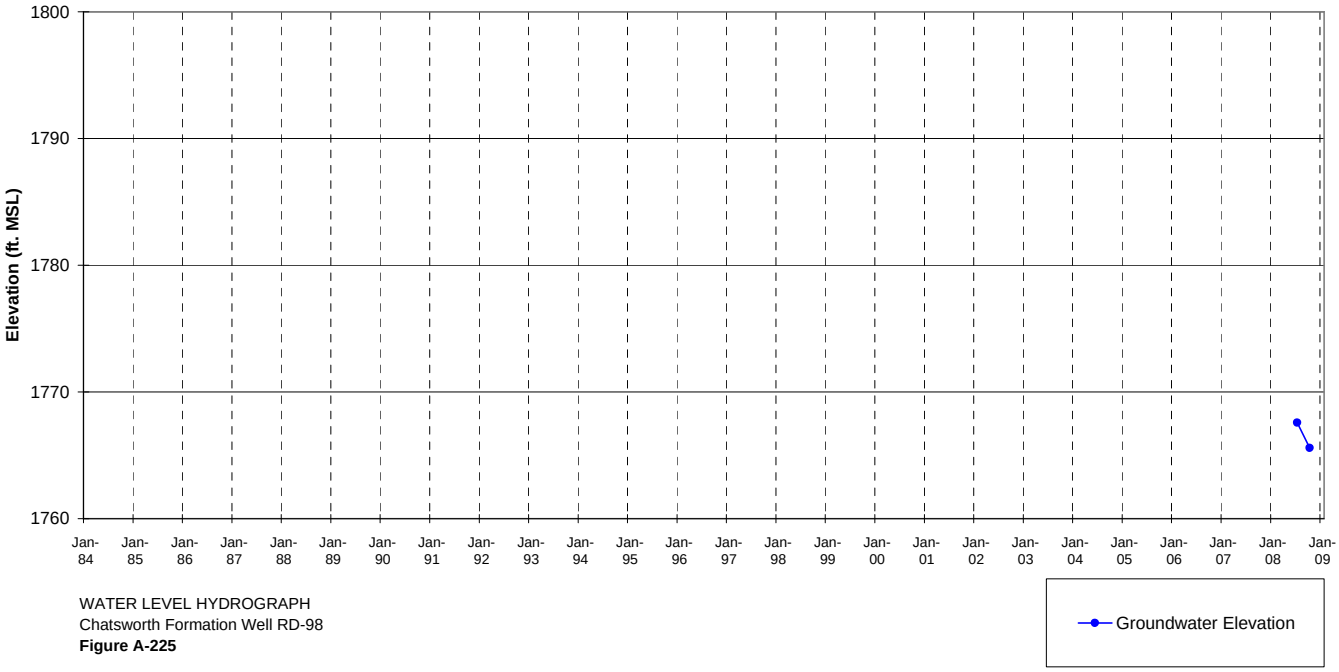
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-95
Figure A-222



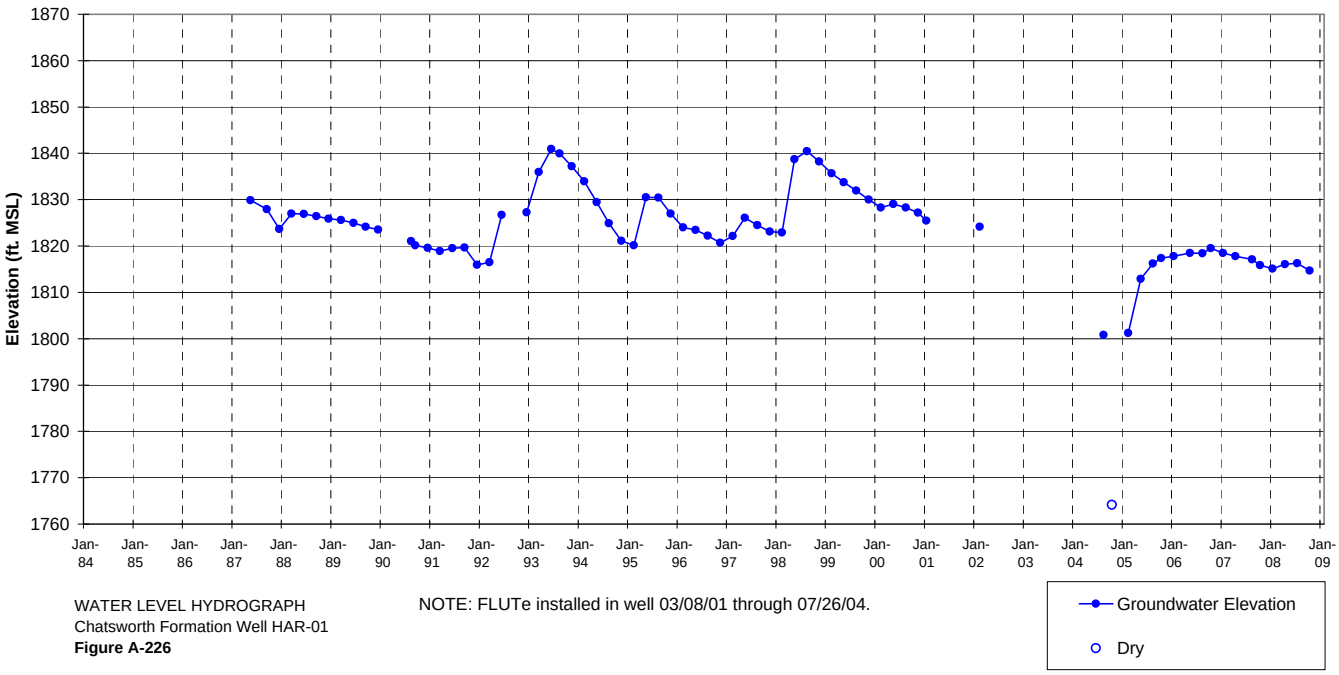
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-96
Figure A-223



WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-97
Figure A-224

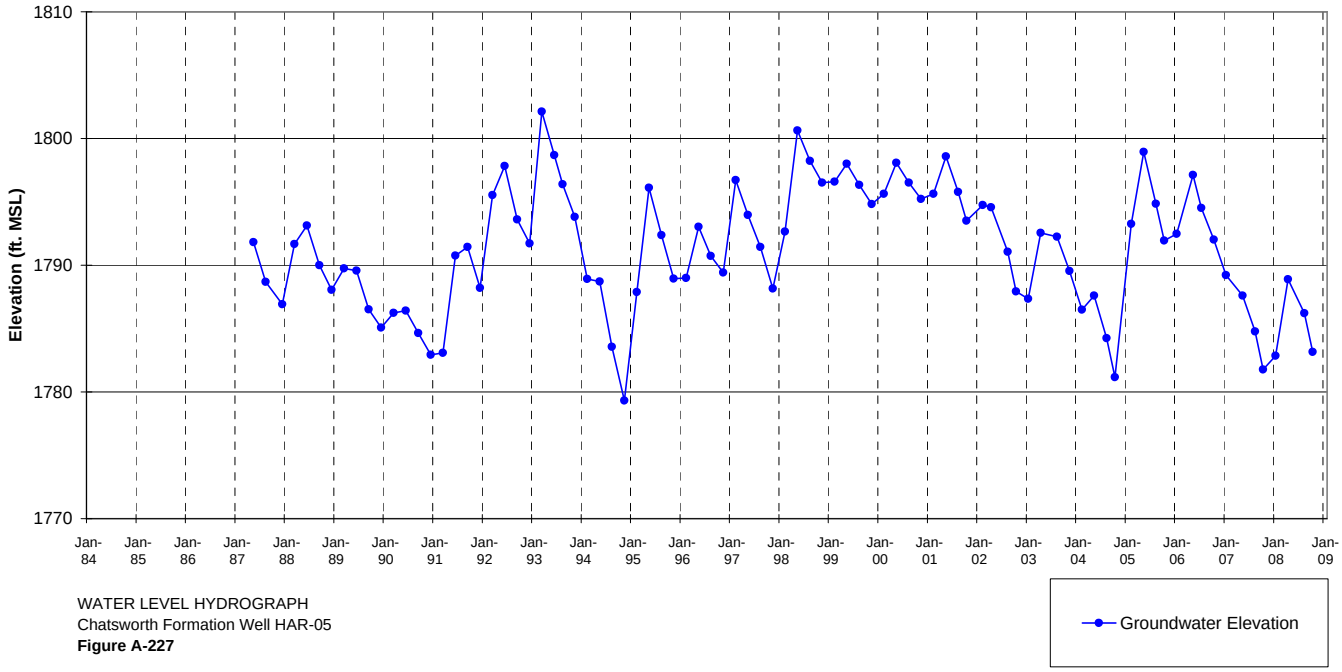


WATER LEVEL HYDROGRAPH
Chatsworth Formation Well RD-98
Figure A-225

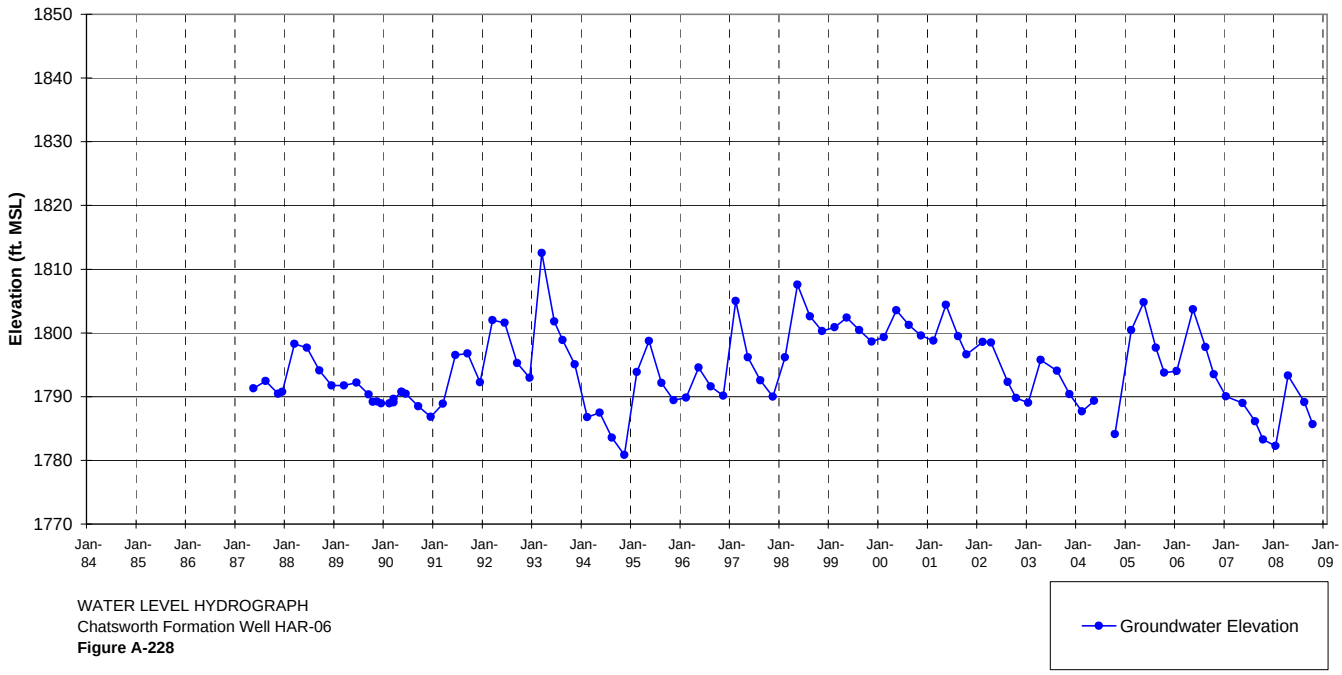


WATER LEVEL HYDROGRAPH
Chatsworth Formation Well HAR-01
Figure A-226

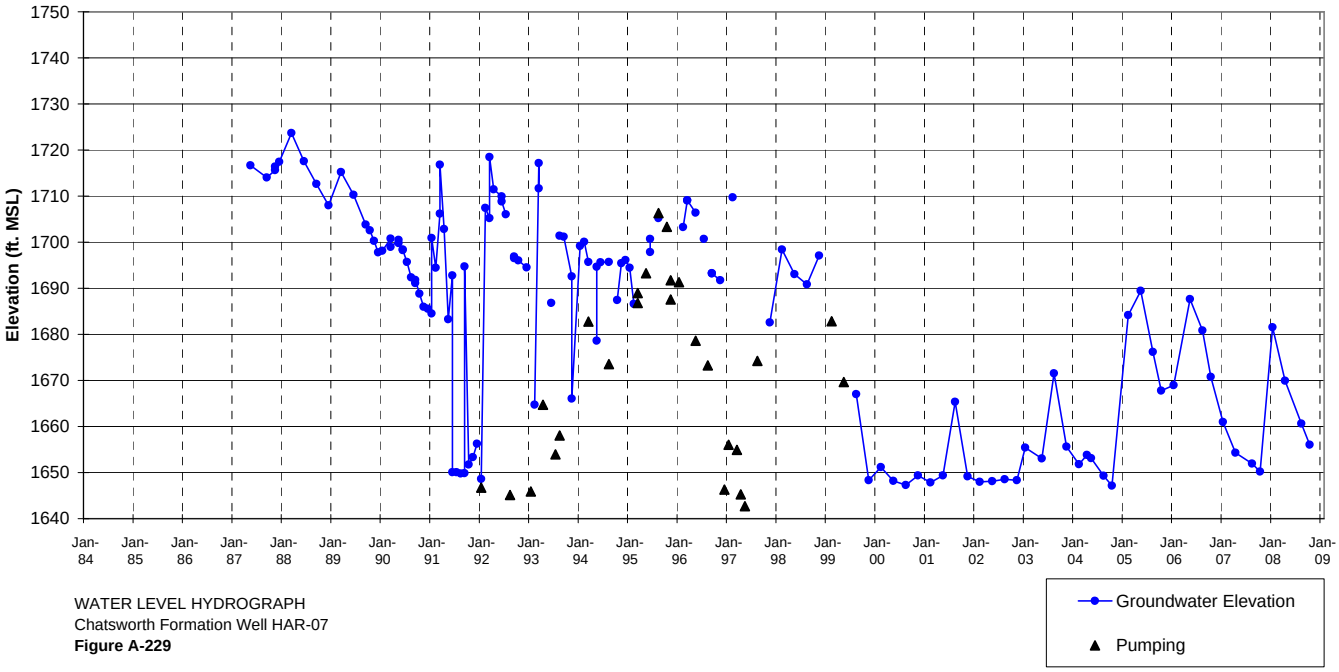
NOTE: FLUTe installed in well 03/08/01 through 07/26/04.



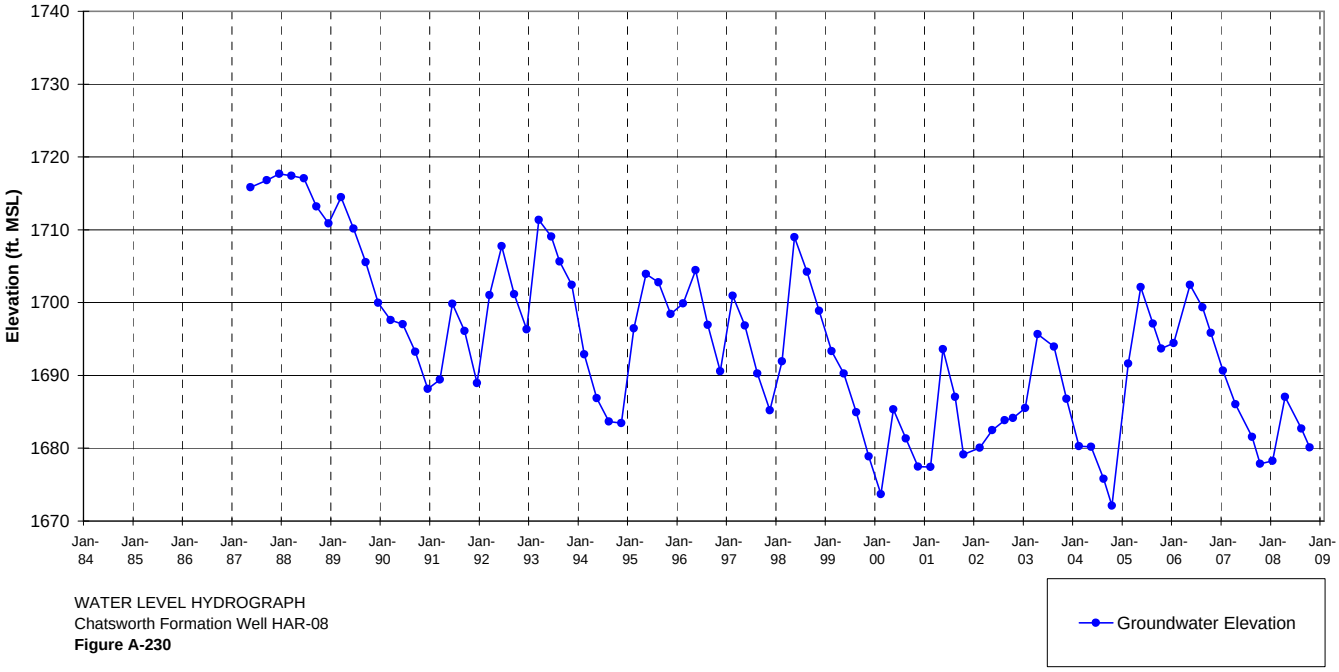
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well HAR-05
Figure A-227



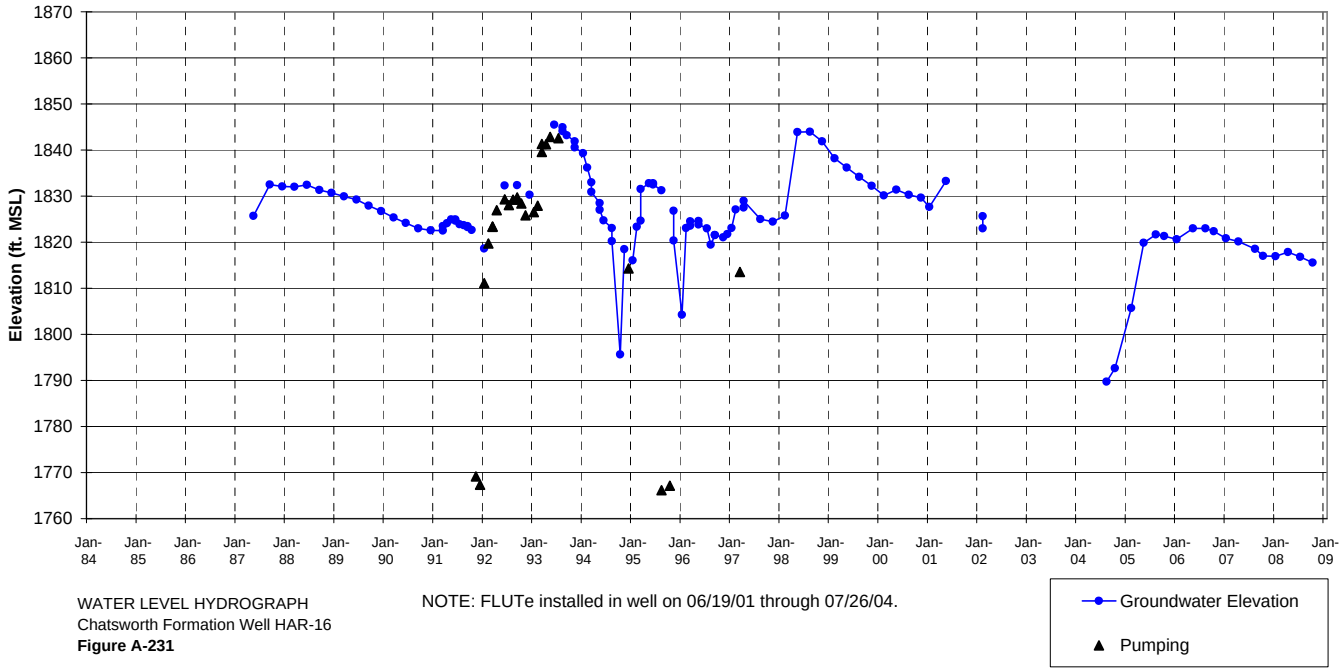
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well HAR-06
Figure A-228



WATER LEVEL HYDROGRAPH
Chatsworth Formation Well HAR-07
Figure A-229

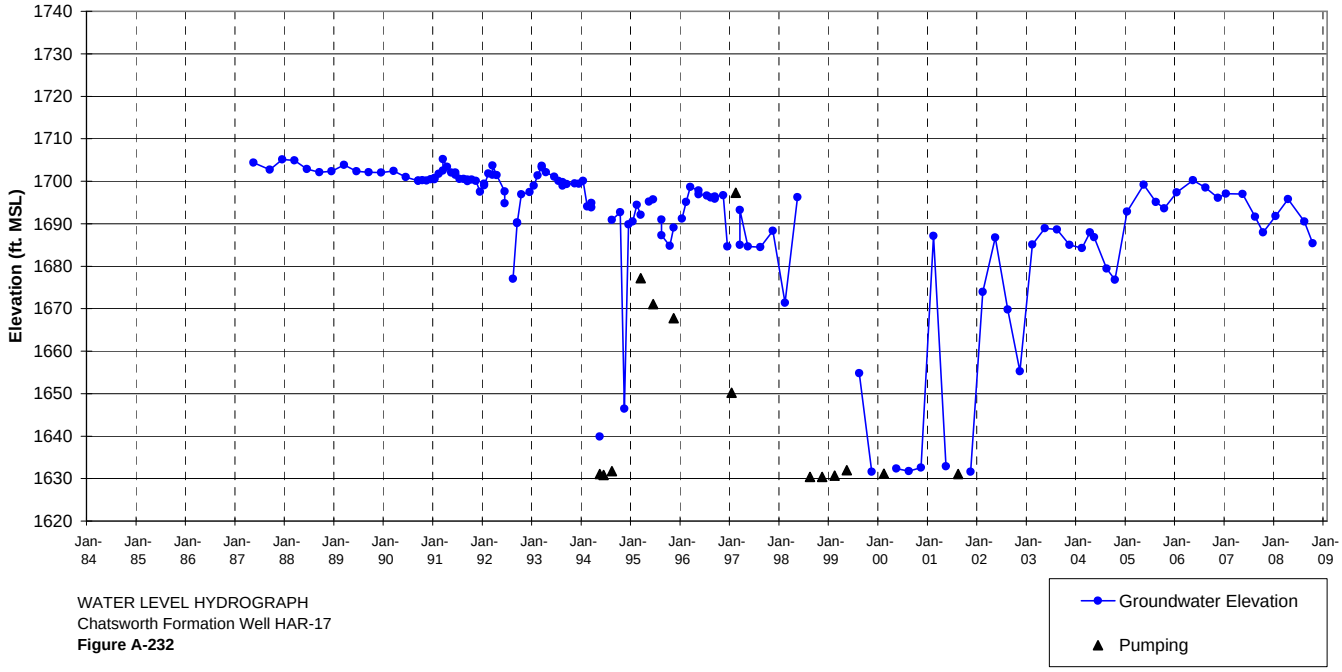


WATER LEVEL HYDROGRAPH
Chatsworth Formation Well HAR-08
Figure A-230

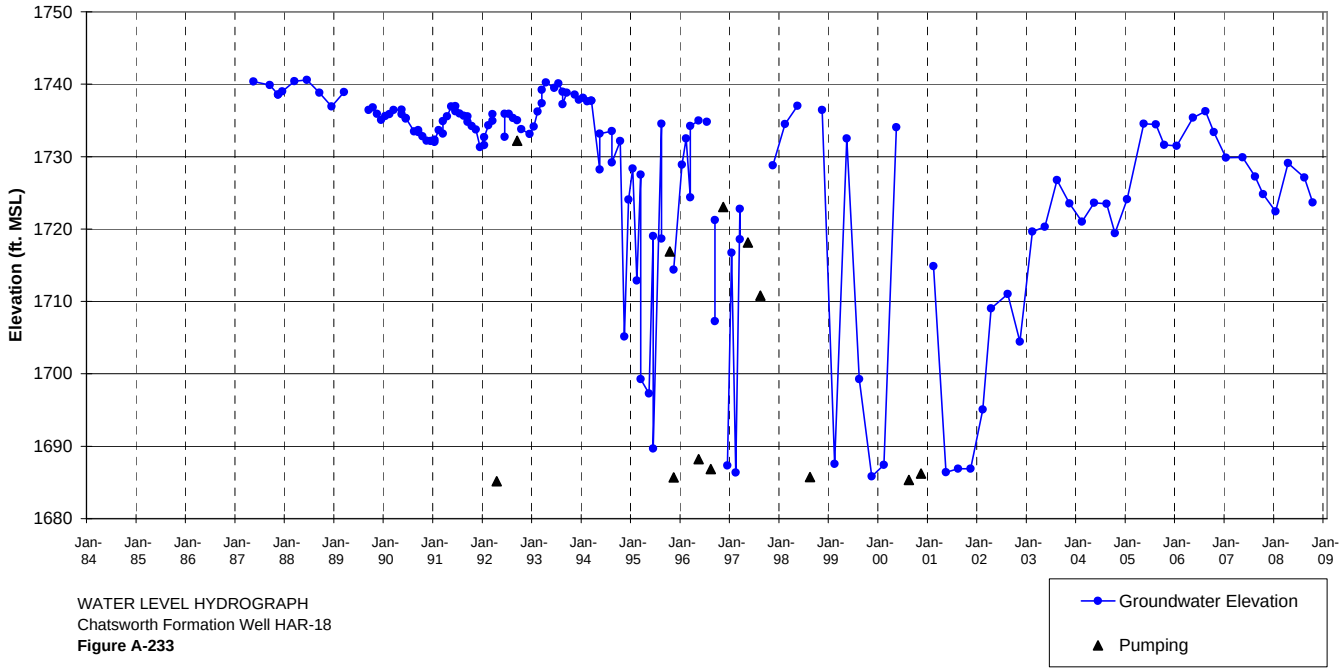


WATER LEVEL HYDROGRAPH
Chatsworth Formation Well HAR-16
Figure A-231

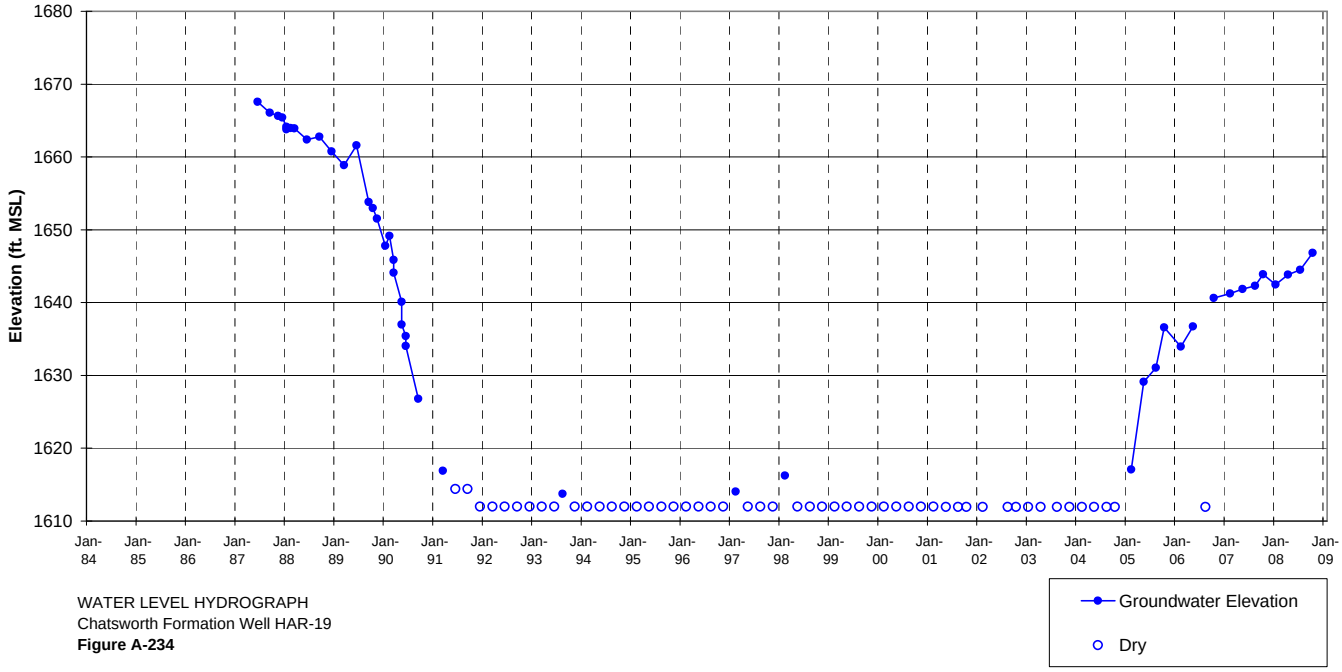
NOTE: FLUTe installed in well on 06/19/01 through 07/26/04.



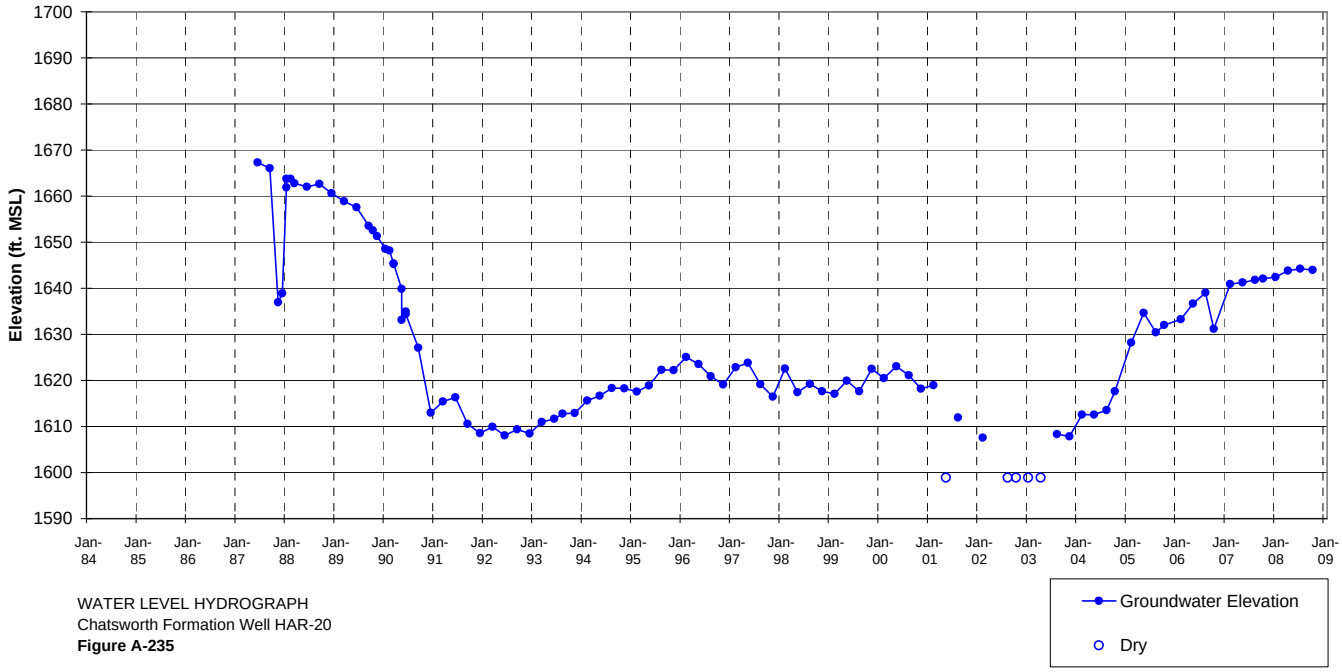
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well HAR-17
Figure A-232



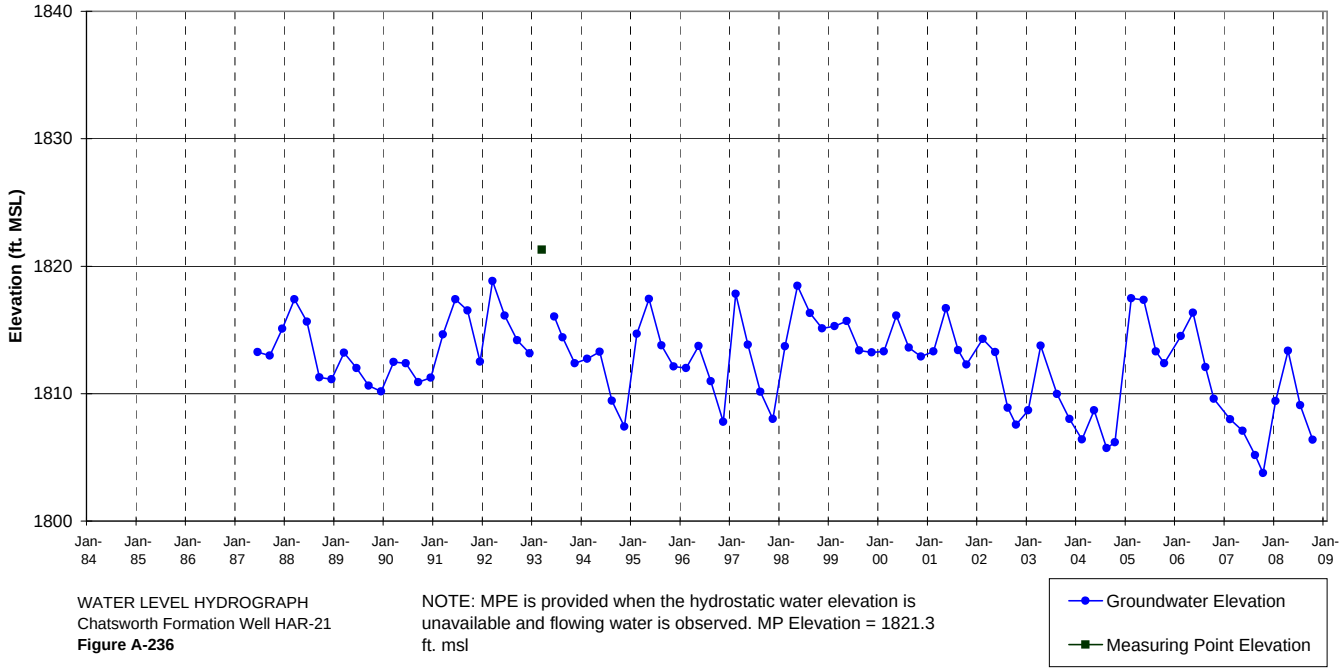
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well HAR-18
Figure A-233



WATER LEVEL HYDROGRAPH
Chatsworth Formation Well HAR-19
Figure A-234

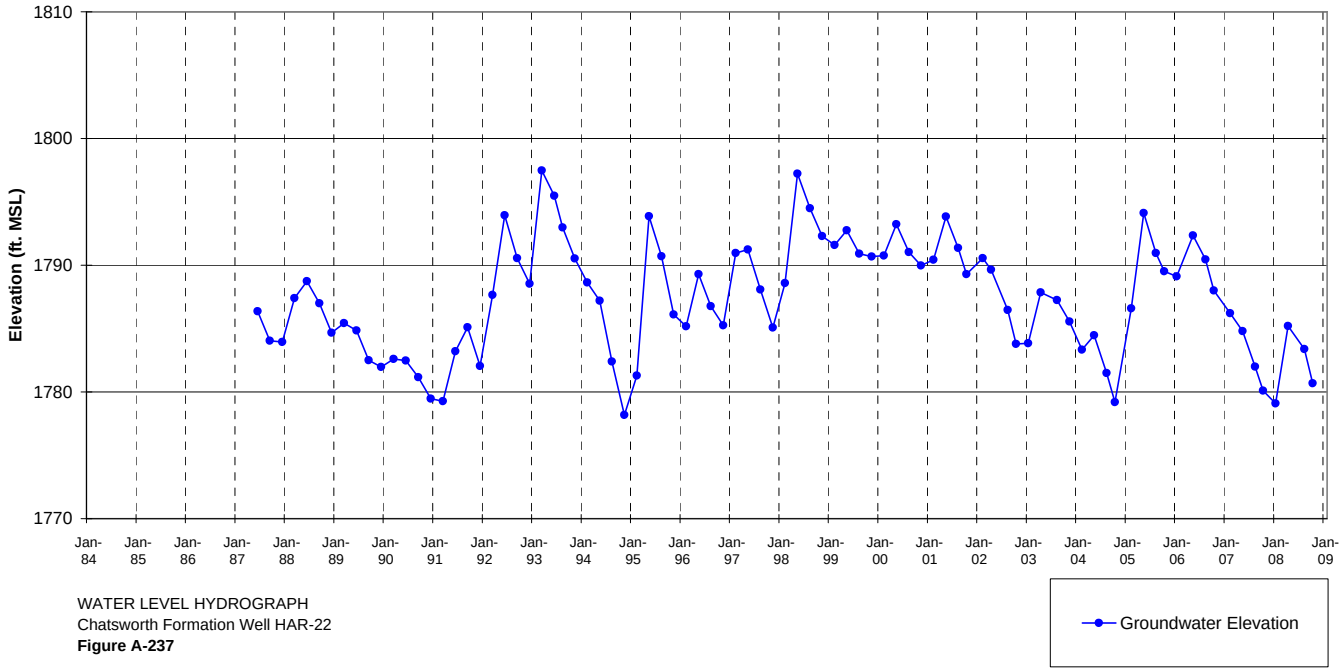


WATER LEVEL HYDROGRAPH
Chatsworth Formation Well HAR-20
Figure A-235

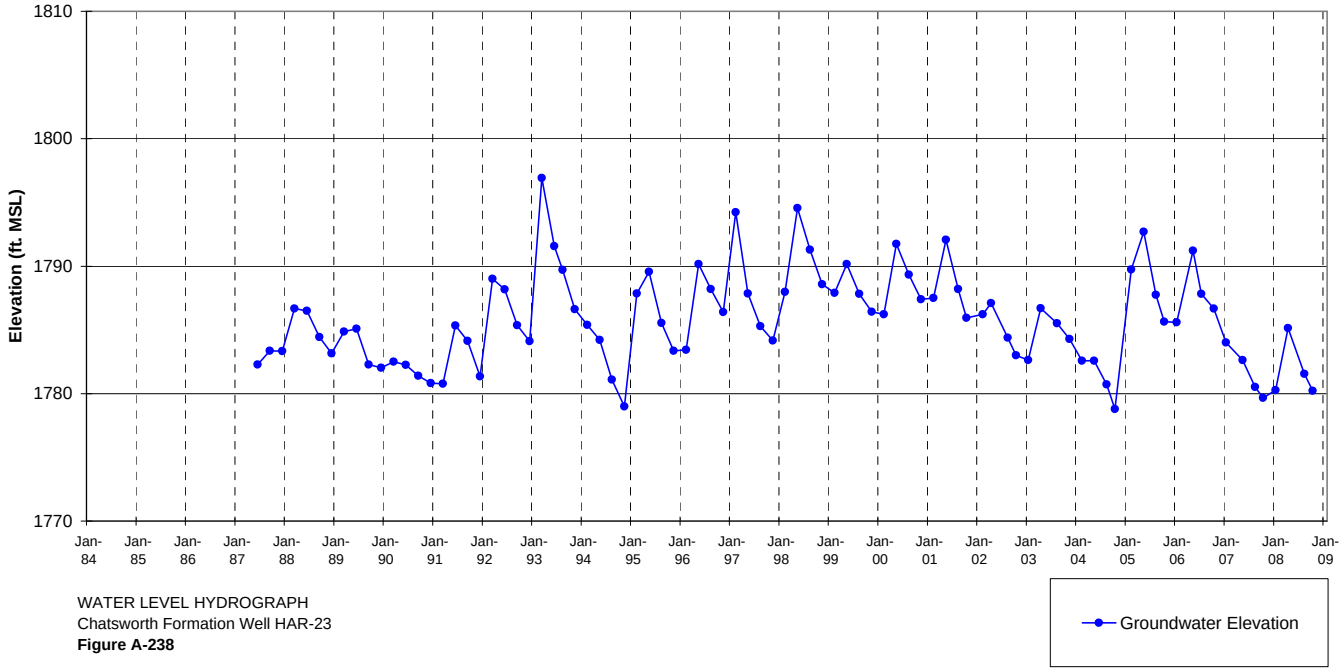


WATER LEVEL HYDROGRAPH
Chatsworth Formation Well HAR-21
Figure A-236

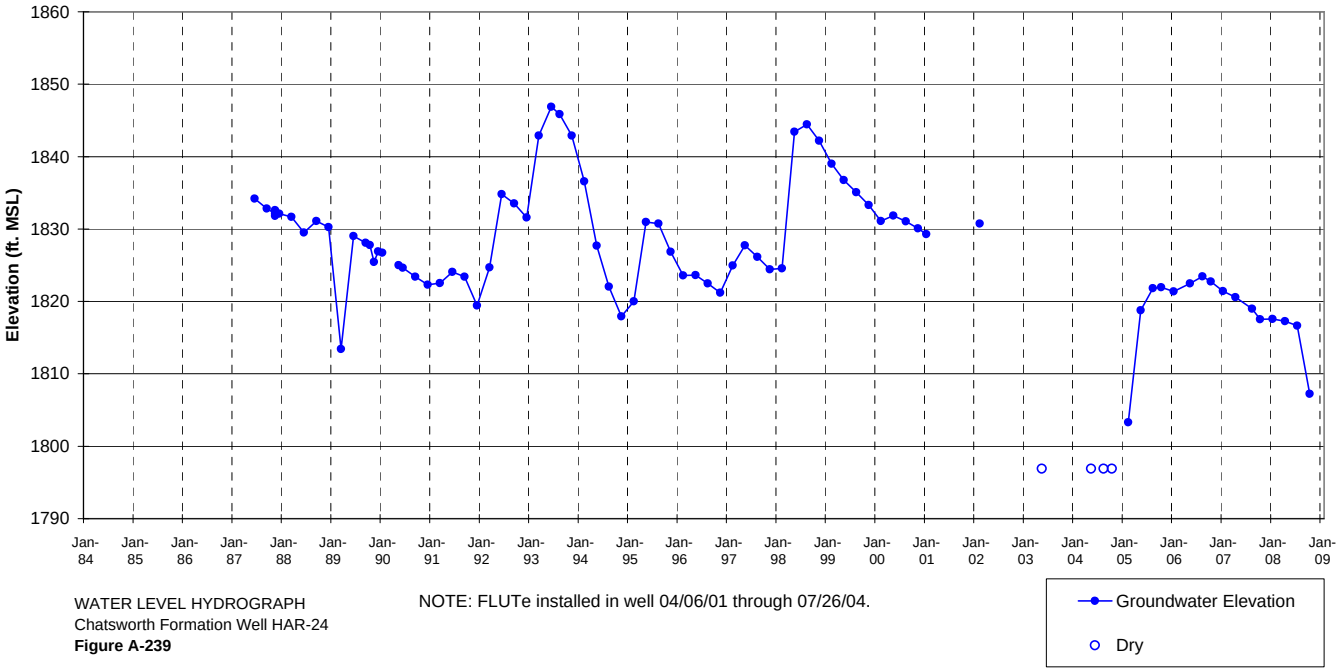
NOTE: MPE is provided when the hydrostatic water elevation is unavailable and flowing water is observed. MP Elevation = 1821.3 ft. msl



WATER LEVEL HYDROGRAPH
Chatsworth Formation Well HAR-22
Figure A-237

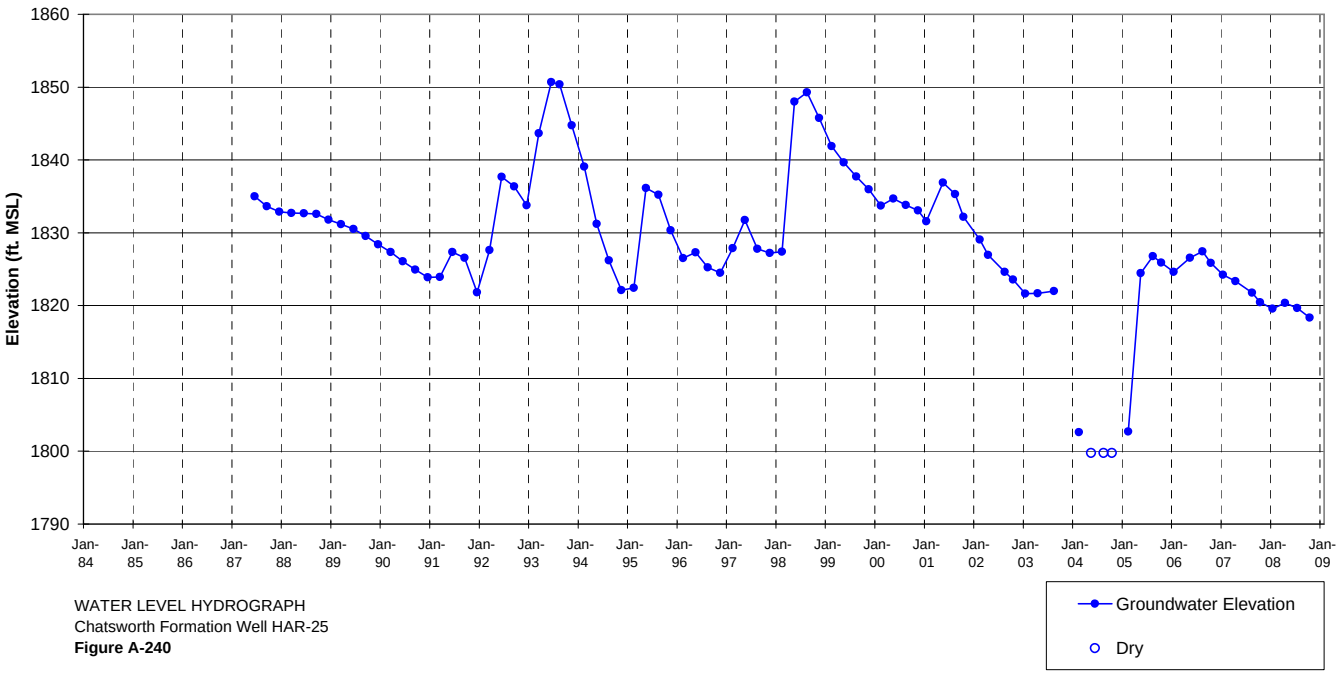


WATER LEVEL HYDROGRAPH
Chatsworth Formation Well HAR-23
Figure A-238

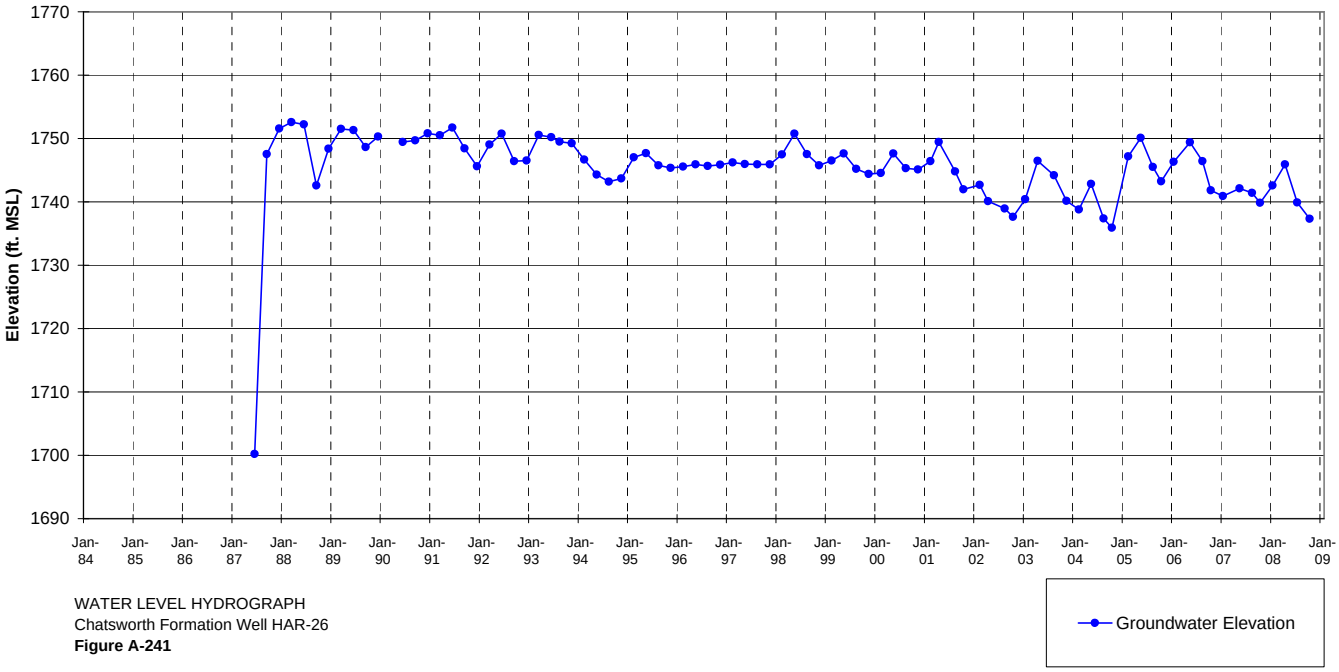


WATER LEVEL HYDROGRAPH
Chatsworth Formation Well HAR-24
Figure A-239

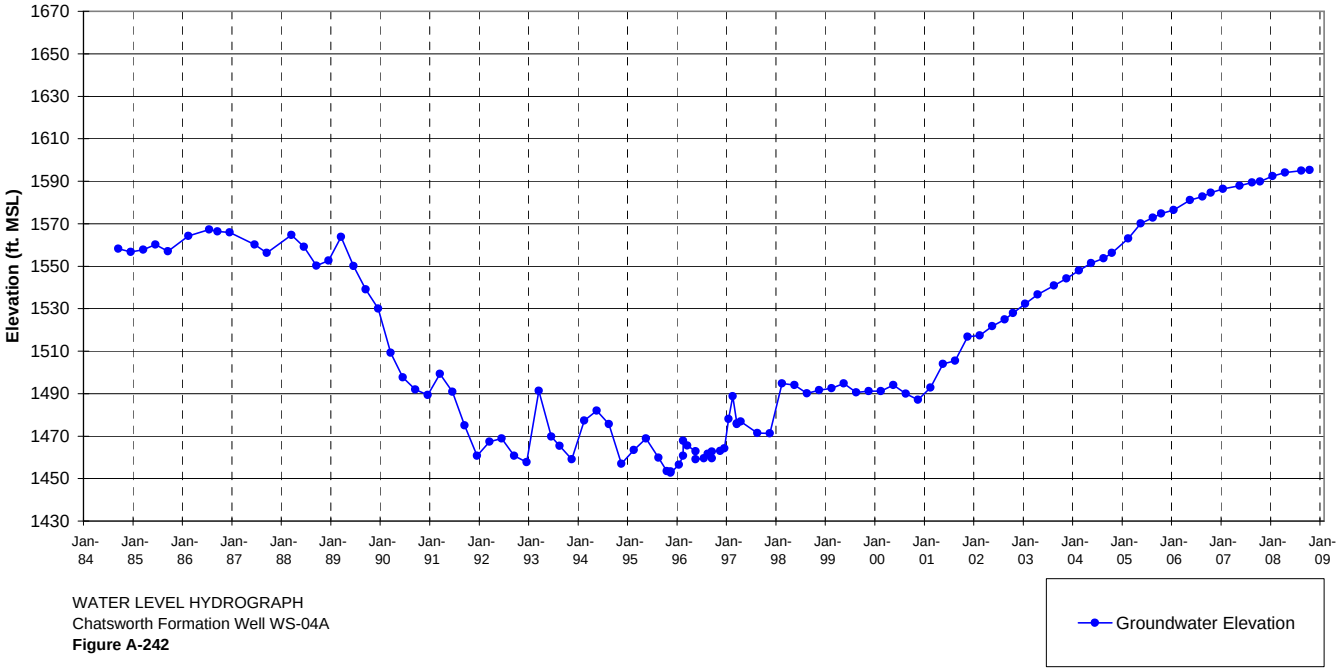
NOTE: FLUTe installed in well 04/06/01 through 07/26/04.



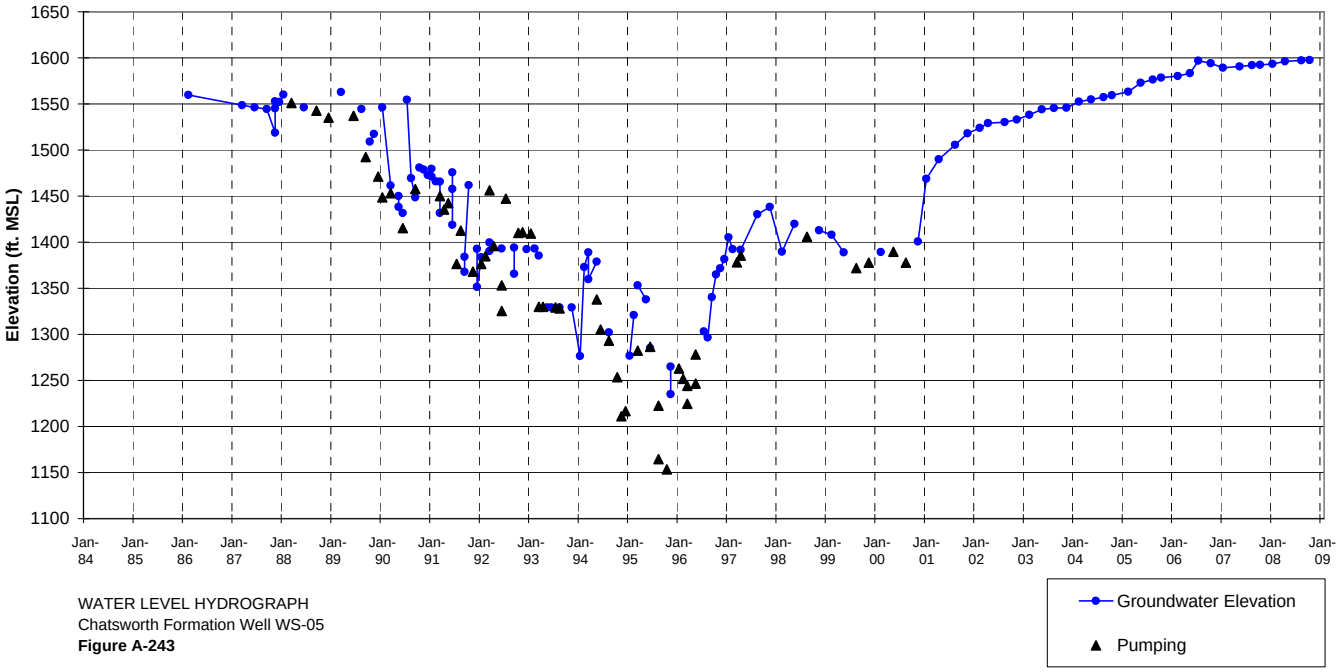
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well HAR-25
Figure A-240



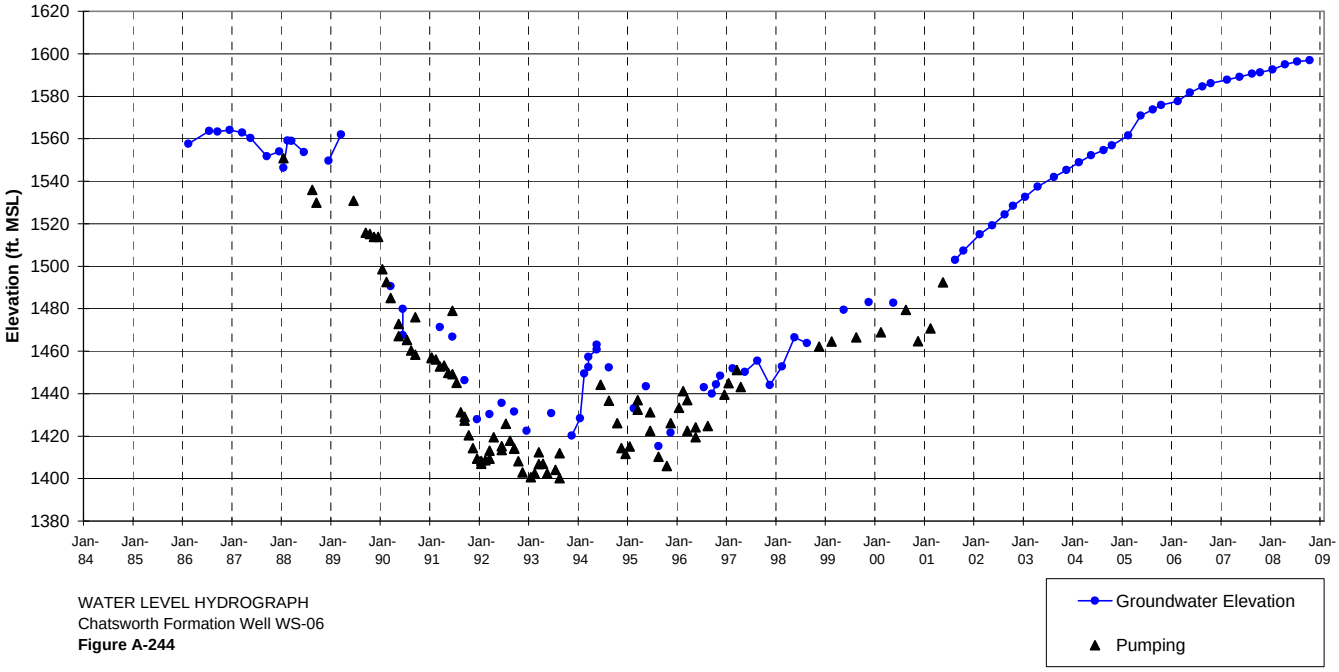
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well HAR-26
Figure A-241



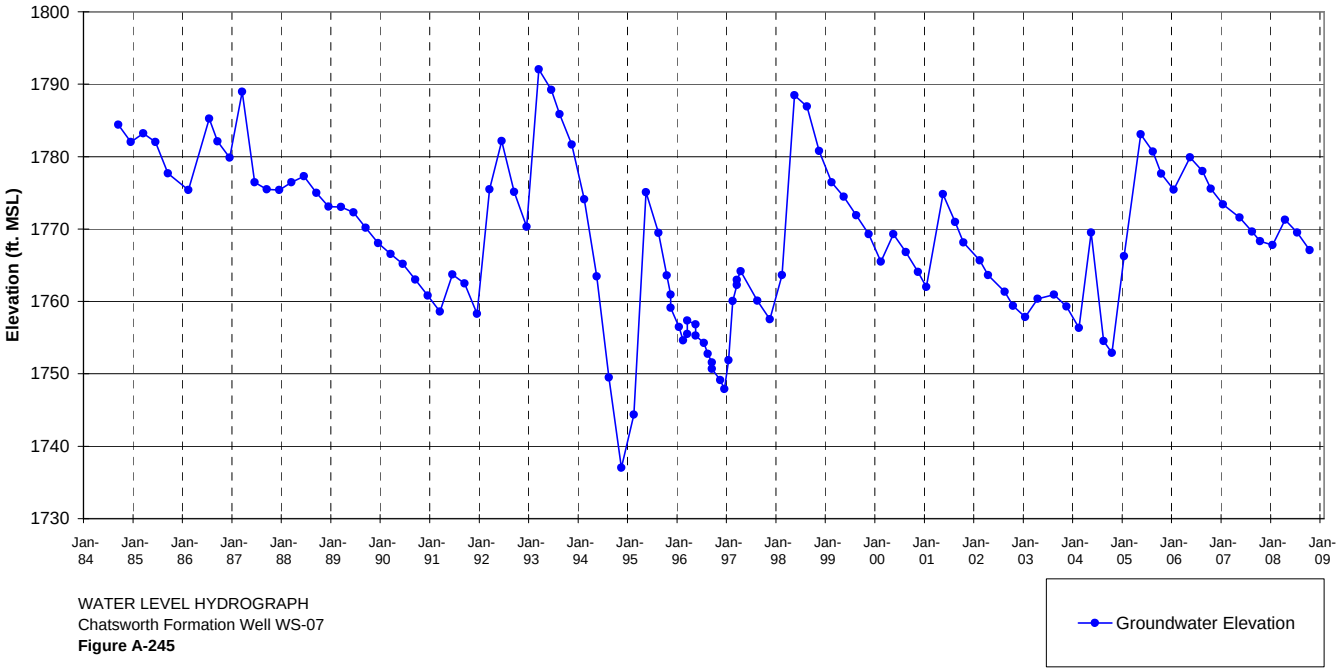
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well WS-04A
Figure A-242



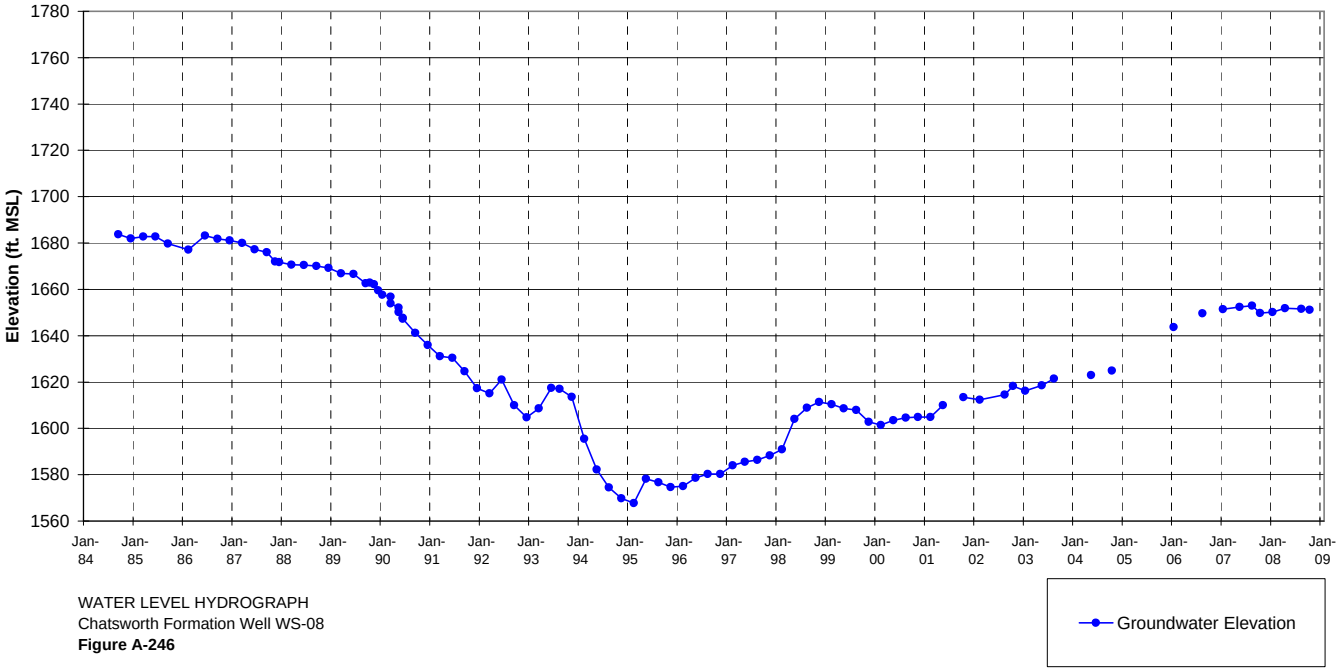
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well WS-05
Figure A-243



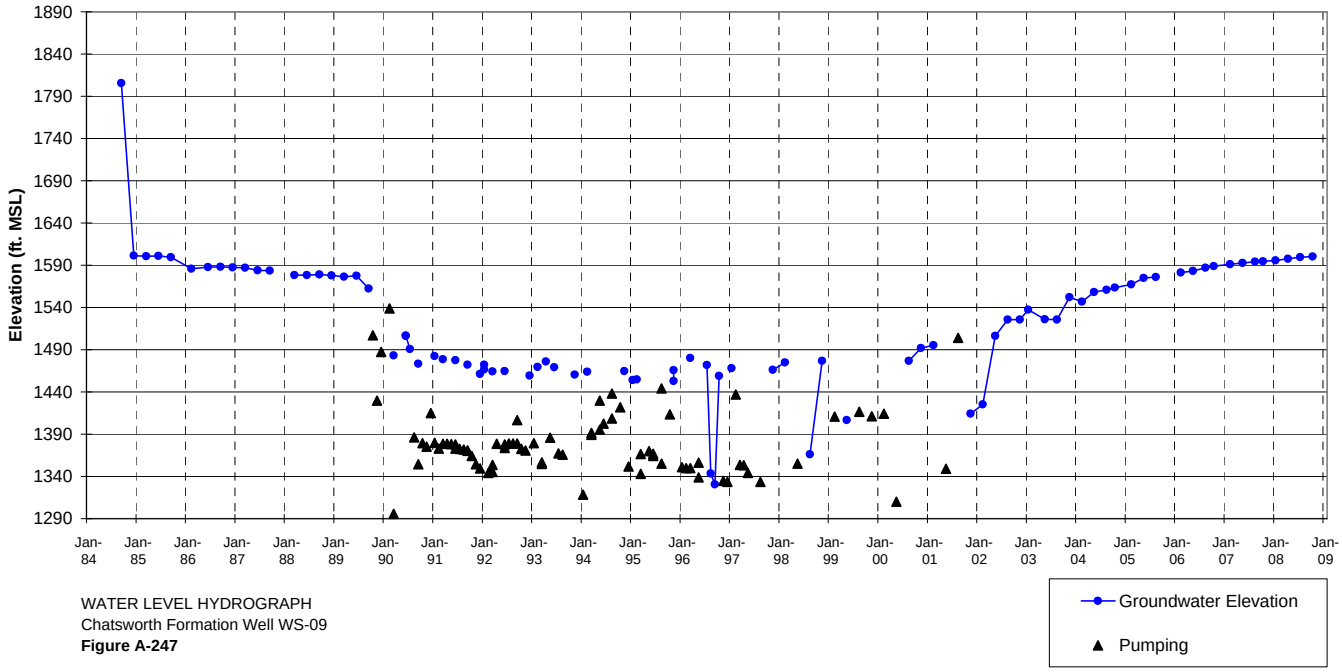
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well WS-06
Figure A-244



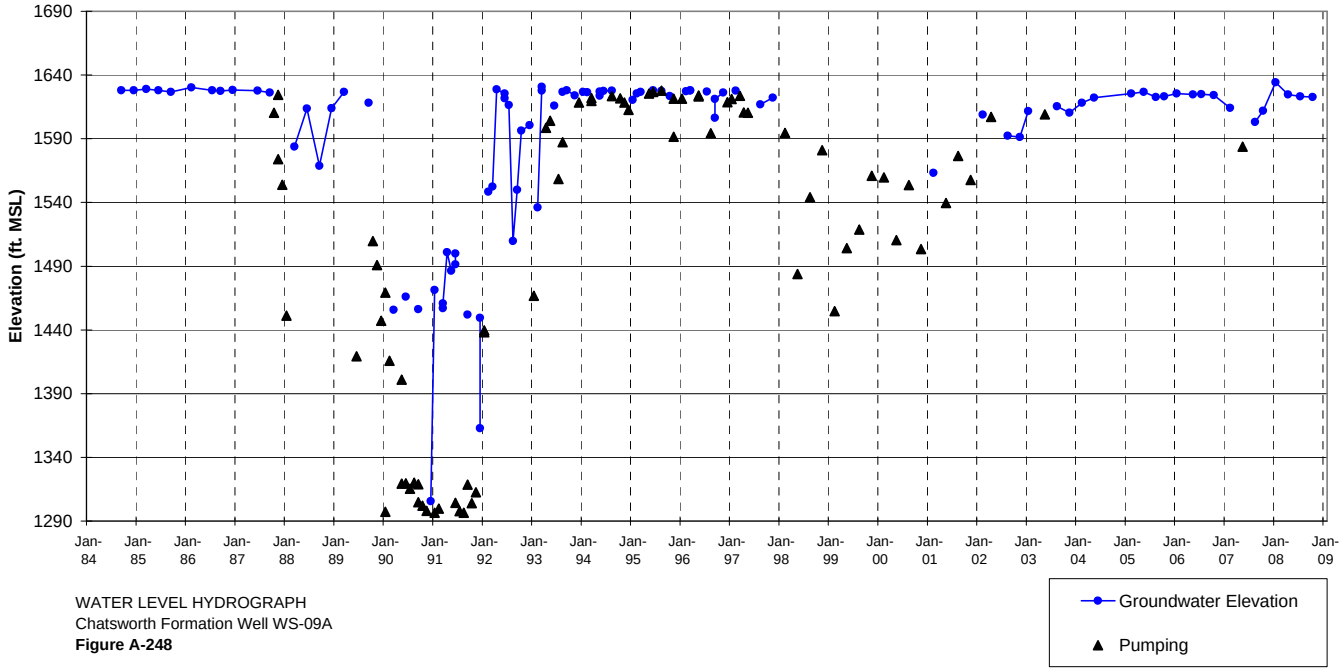
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well WS-07
Figure A-245



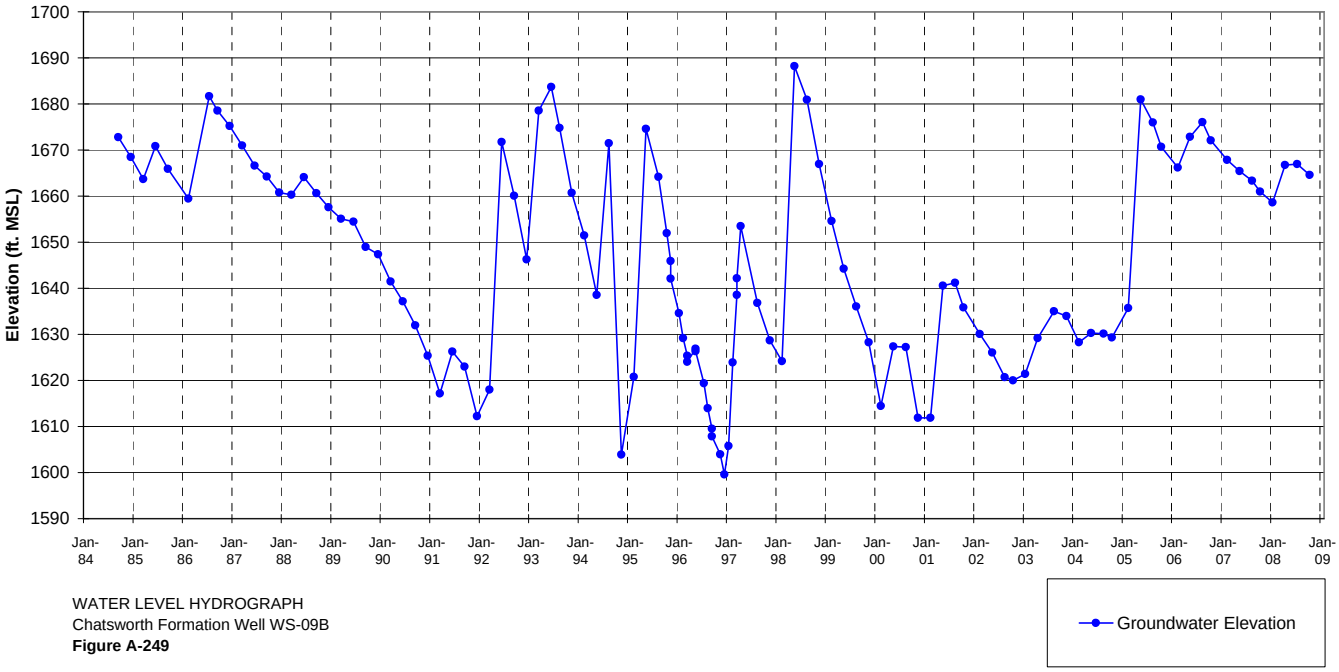
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well WS-08
Figure A-246



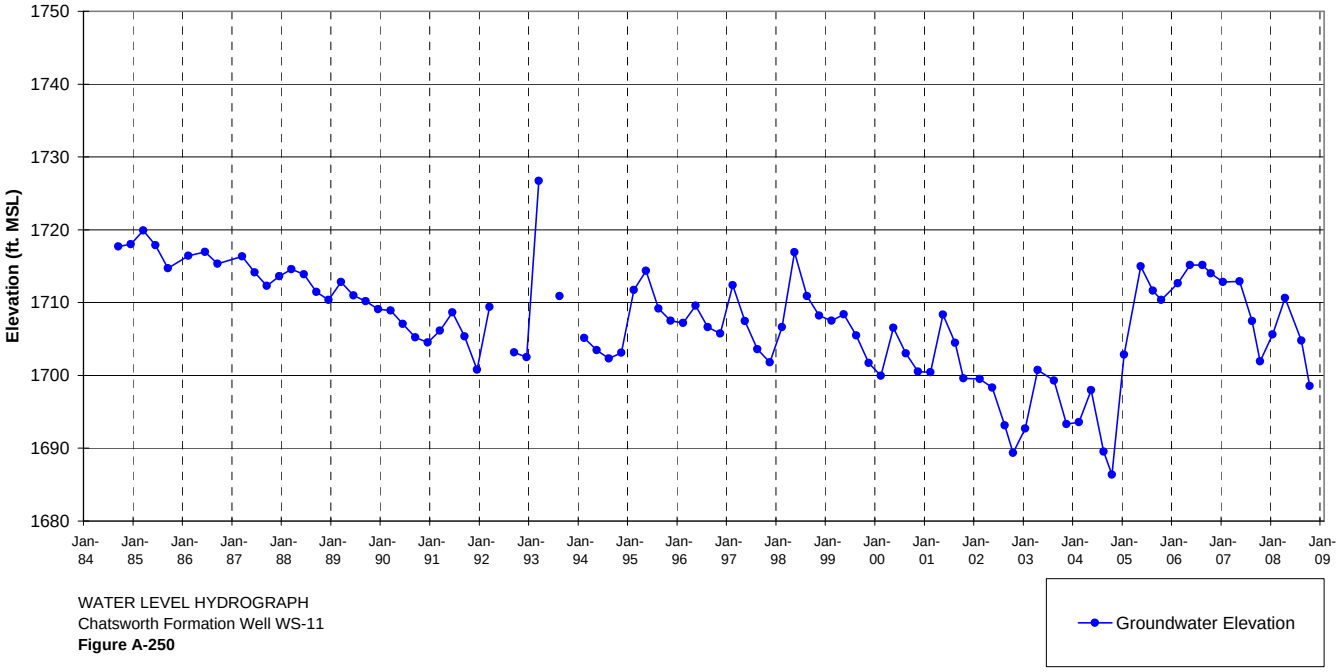
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well WS-09
Figure A-247



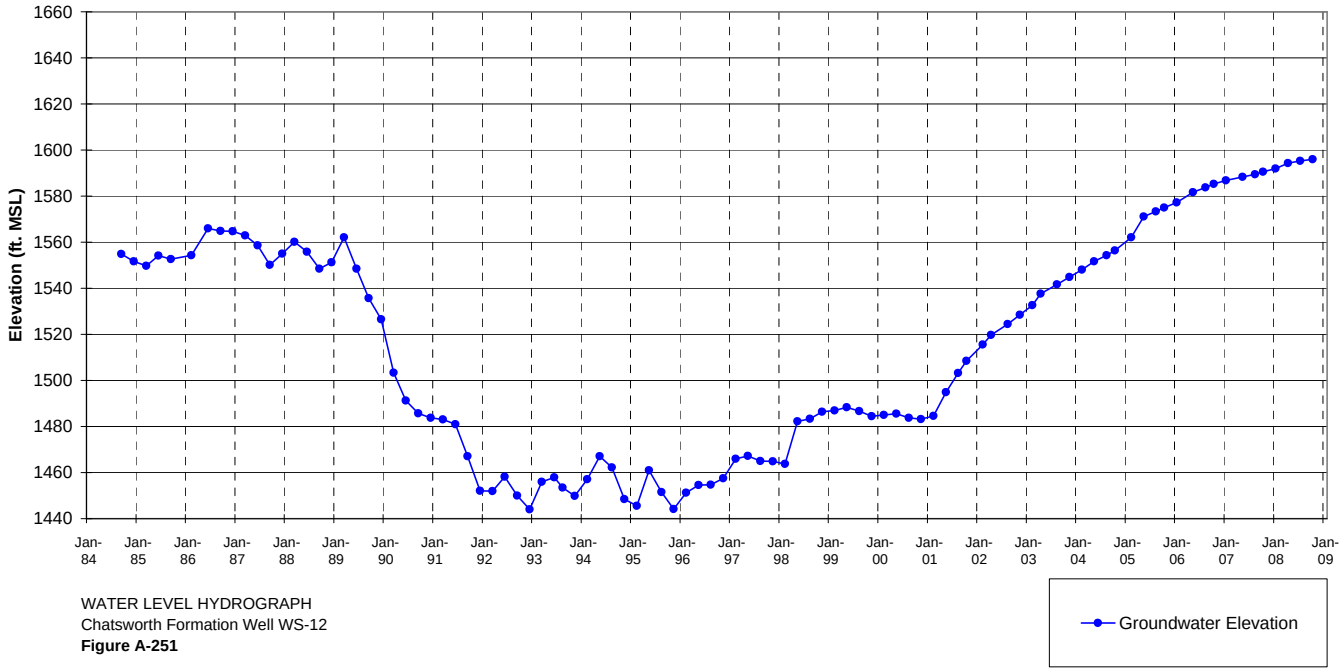
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well WS-09A
Figure A-248



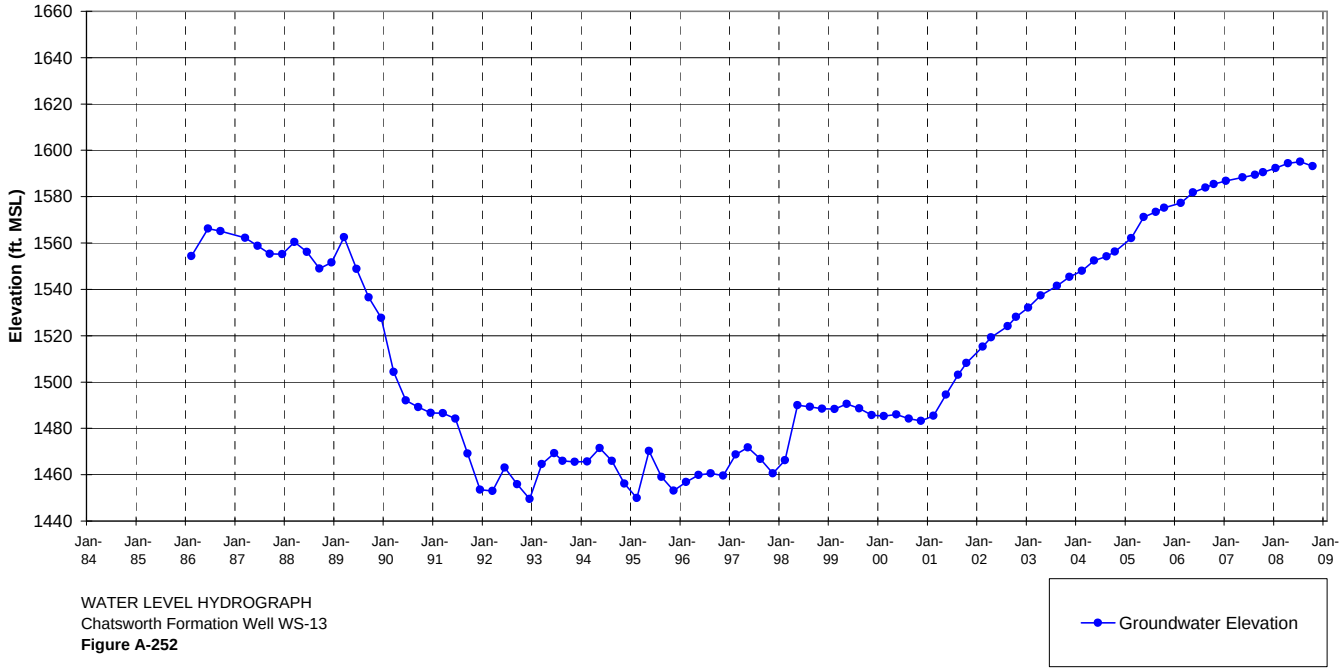
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well WS-09B
Figure A-249



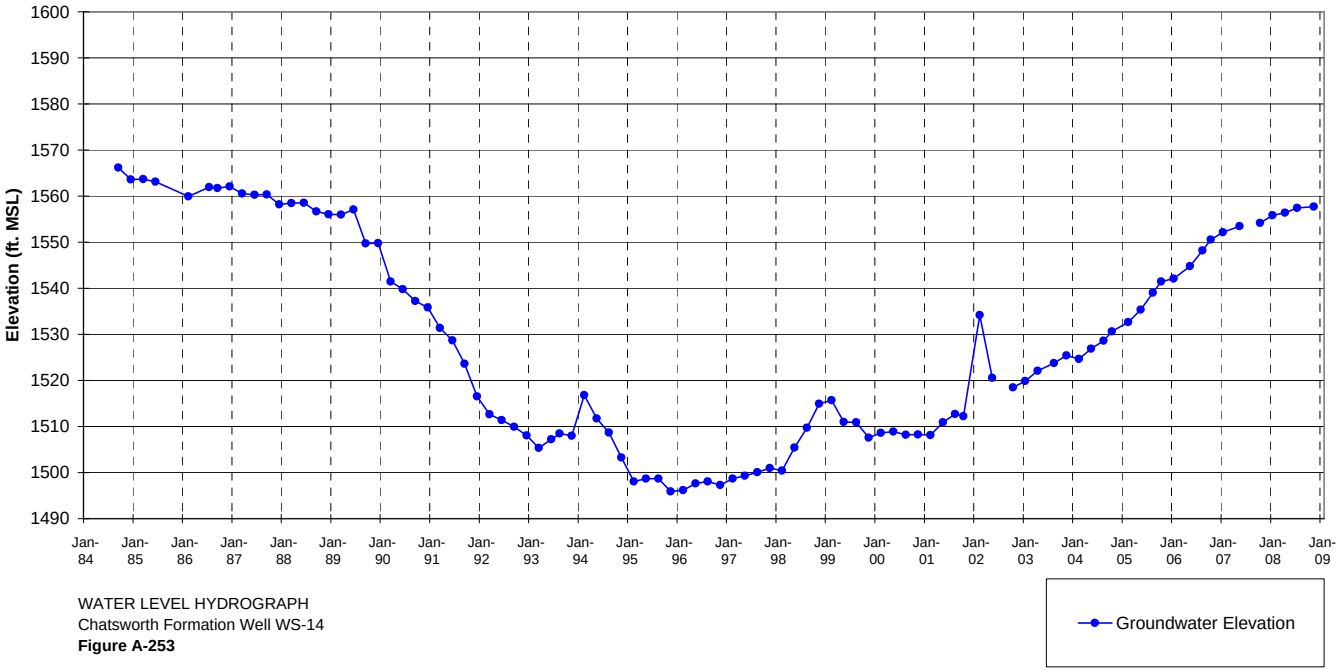
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well WS-11
Figure A-250



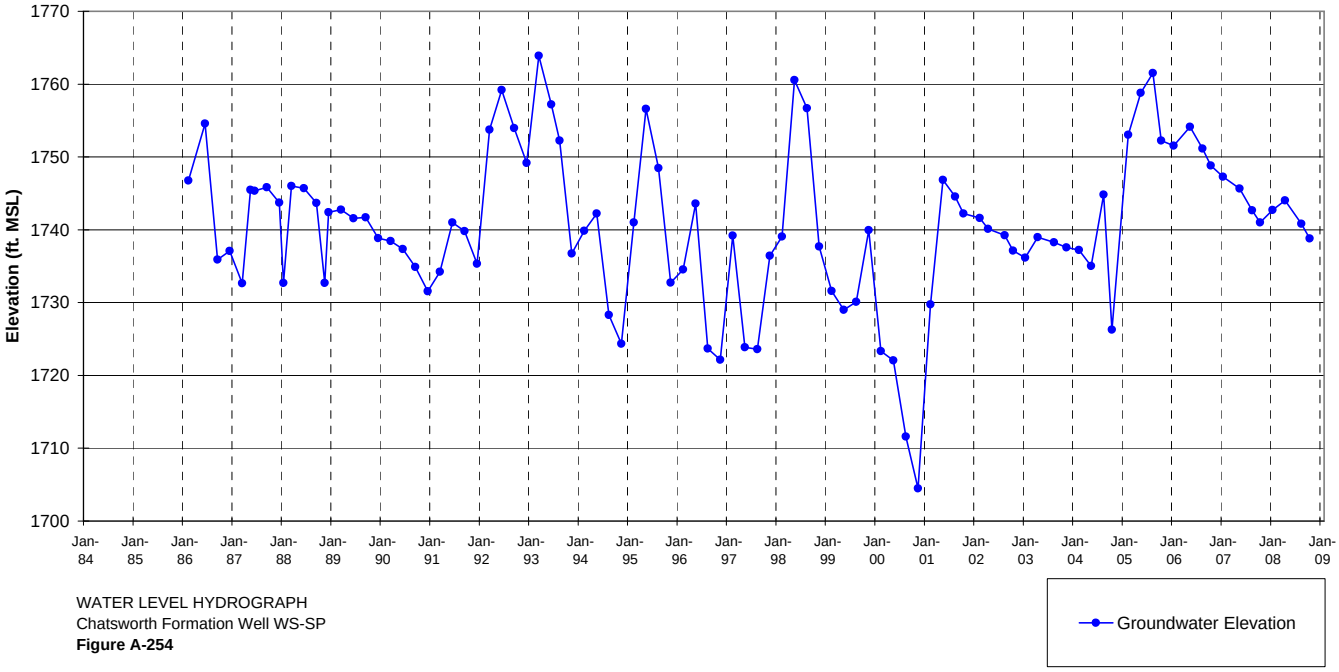
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well WS-12
Figure A-251



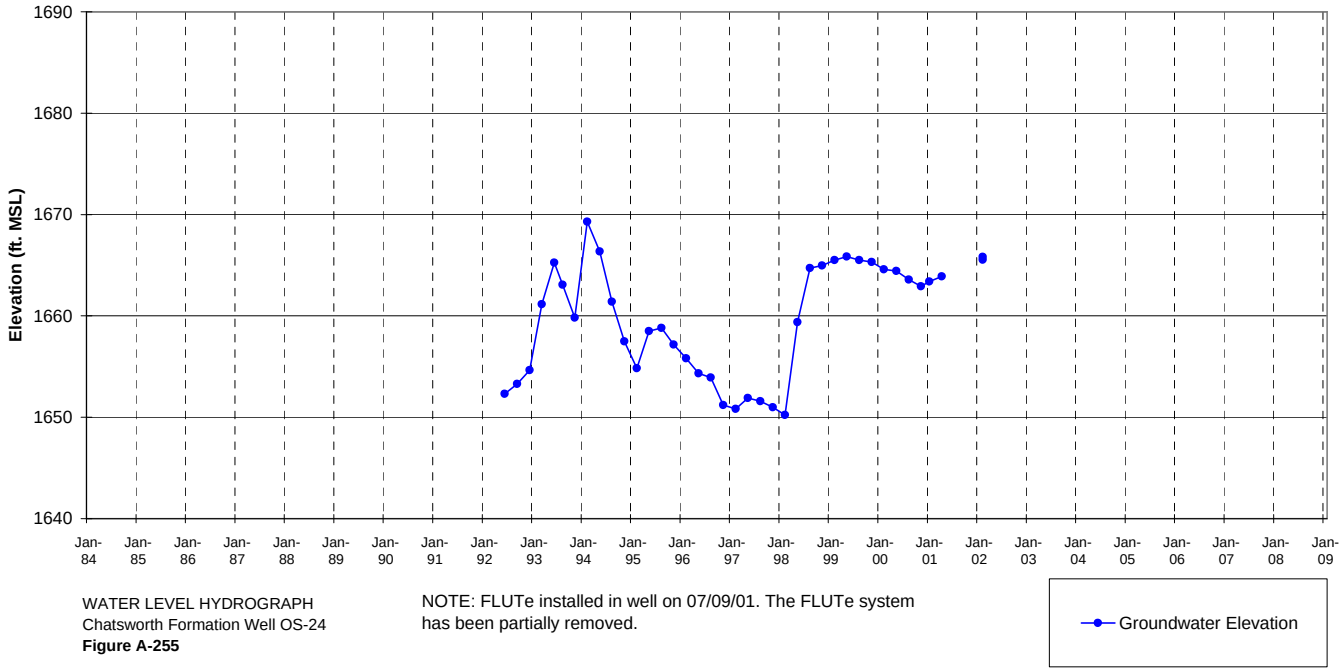
WATER LEVEL HYDROGRAPH
Chatsworth Formation Well WS-13
Figure A-252



WATER LEVEL HYDROGRAPH
Chatsworth Formation Well WS-14
Figure A-253

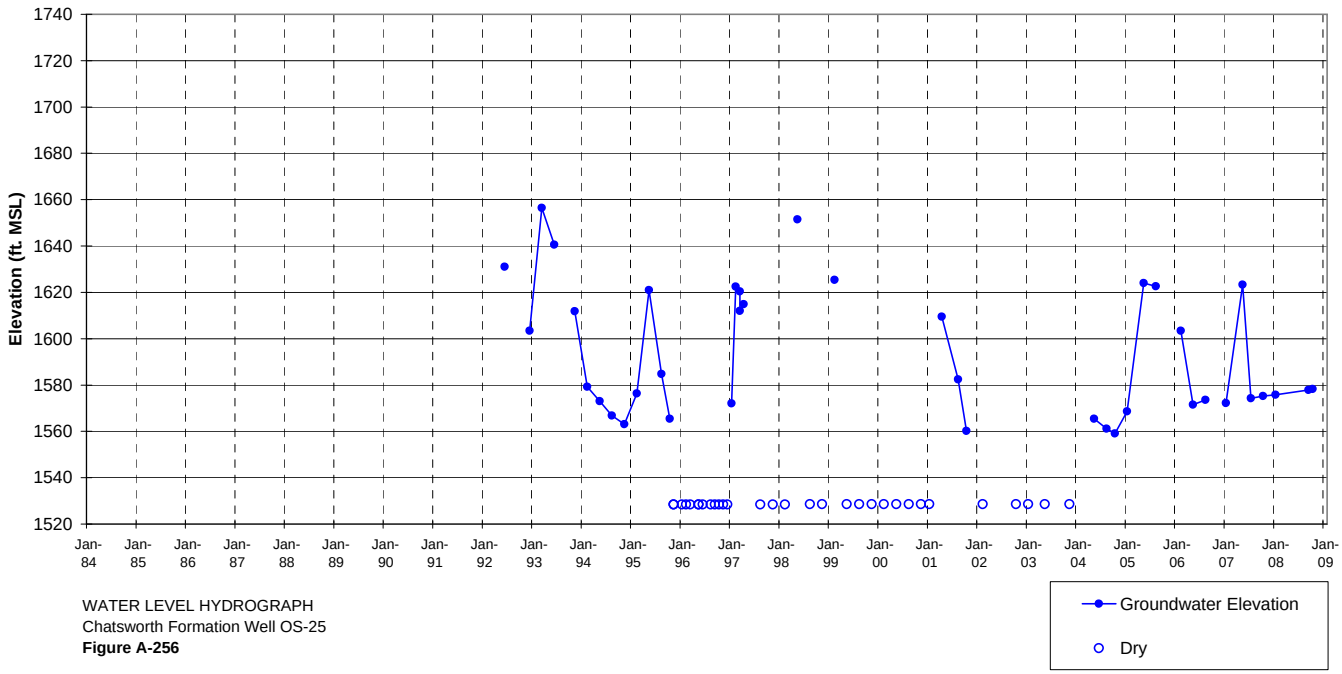


WATER LEVEL HYDROGRAPH
Chatsworth Formation Well WS-SP
Figure A-254

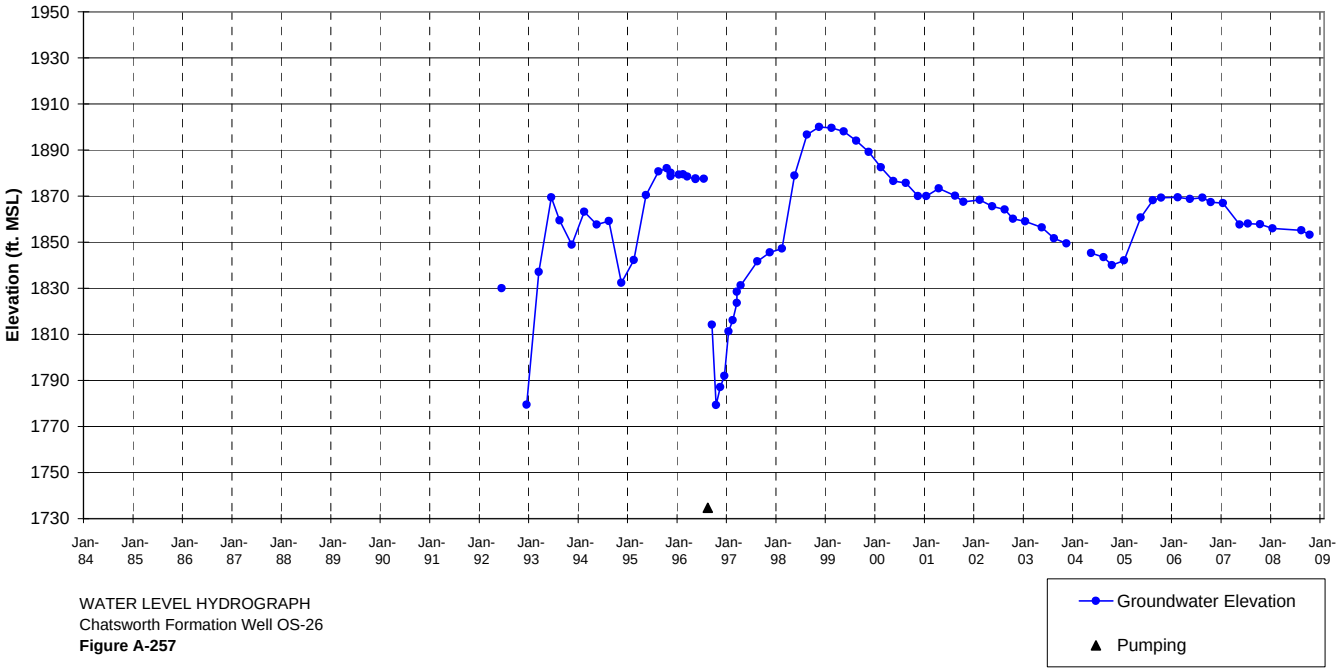


WATER LEVEL HYDROGRAPH
Chatsworth Formation Well OS-24
Figure A-255

NOTE: FLUTe installed in well on 07/09/01. The FLUTe system has been partially removed.



WATER LEVEL HYDROGRAPH
Chatsworth Formation Well OS-25
Figure A-256



WATER LEVEL HYDROGRAPH
Chatsworth Formation Well OS-26
Figure A-257

Figure A-258
Chatsworth Formation Well RD-10 FLUTe Hydrograph

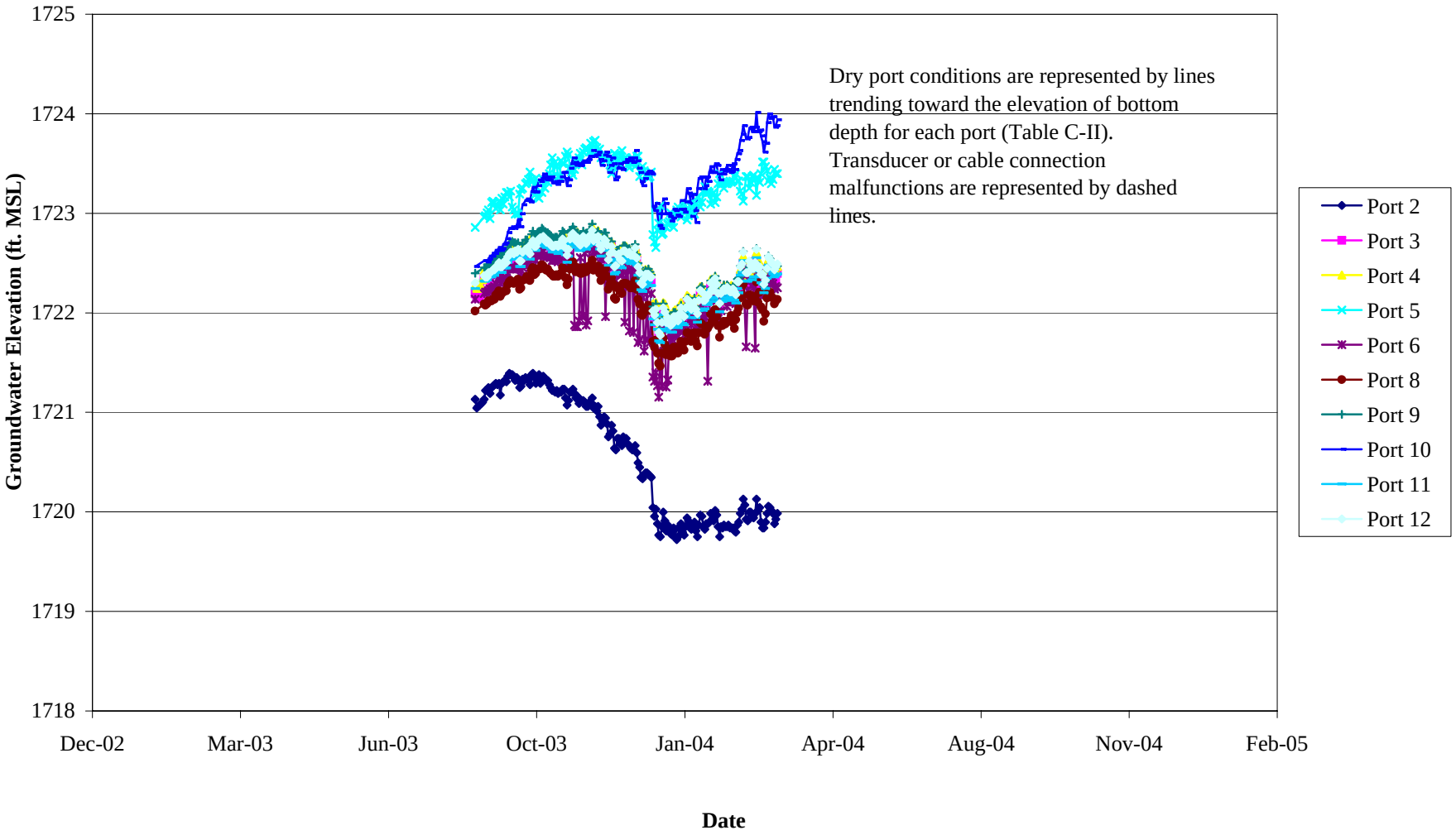


Figure A-259
Chatsworth Formation Well RD-21 FLUTe Hydrograph

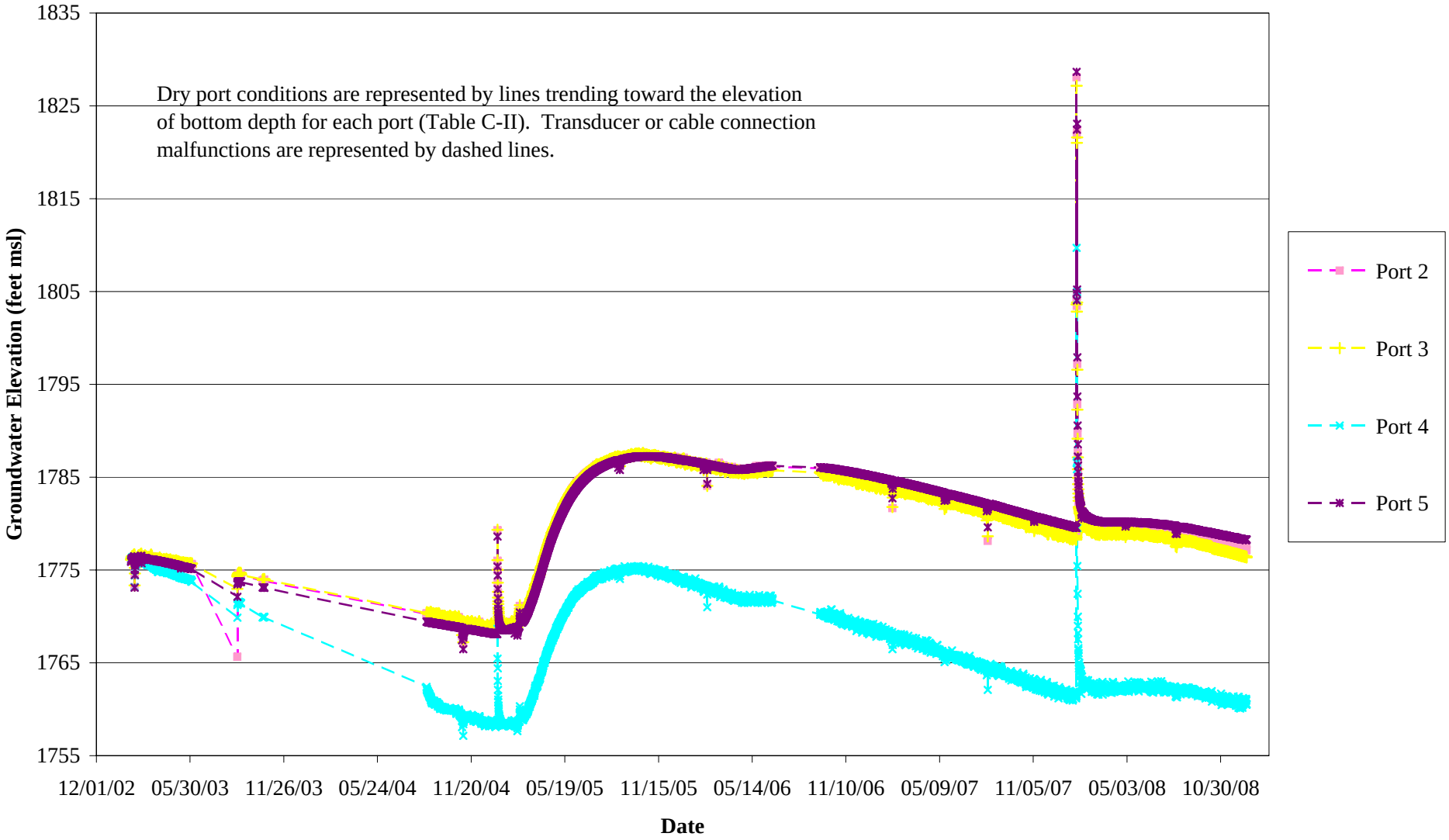


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Figure A-260
Chatsworth Formation Well RD-22 FLUTe Hydrograph

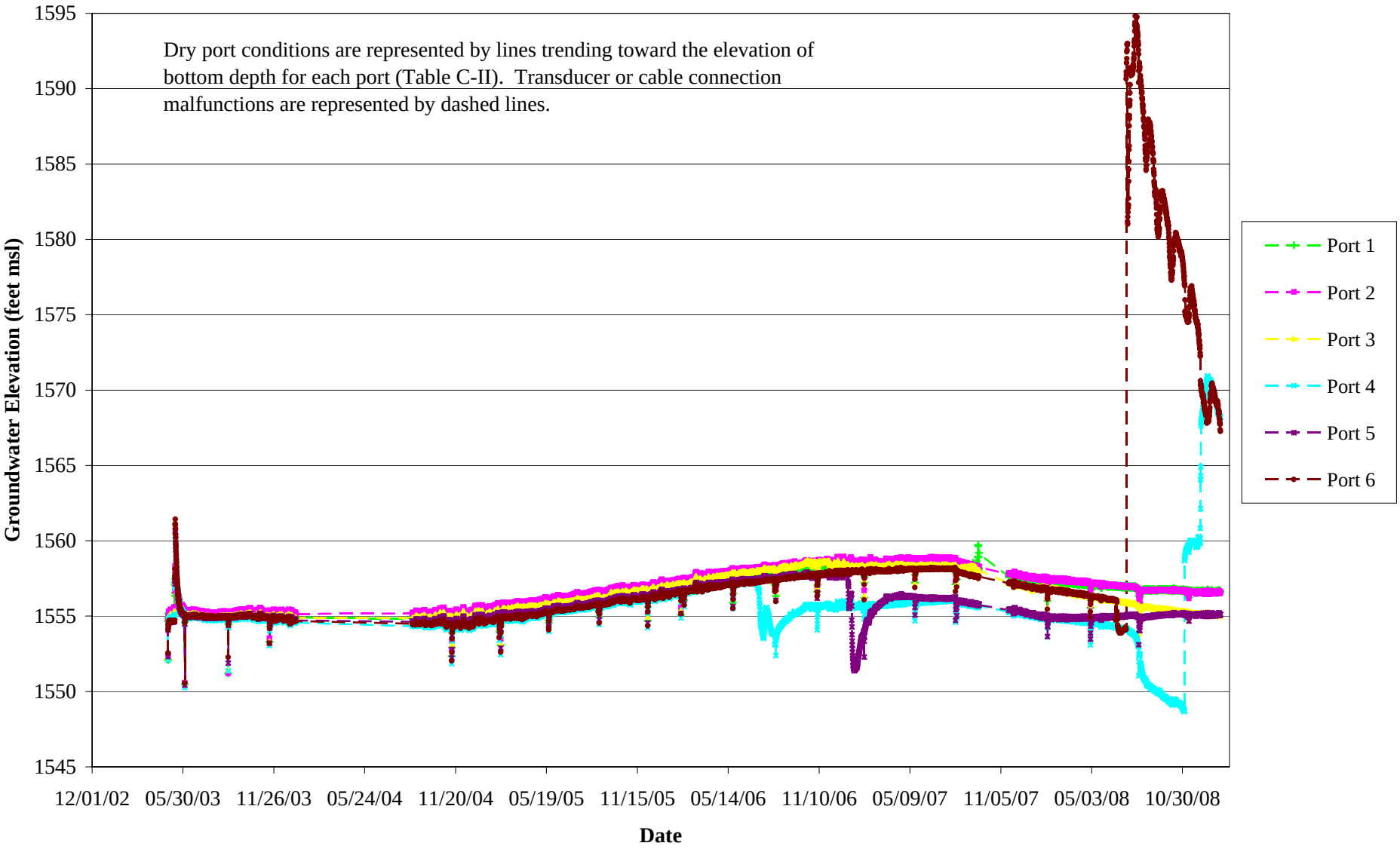

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Figure A-261
Chatsworth Formation Well RD-23 FLUTe Hydrograph

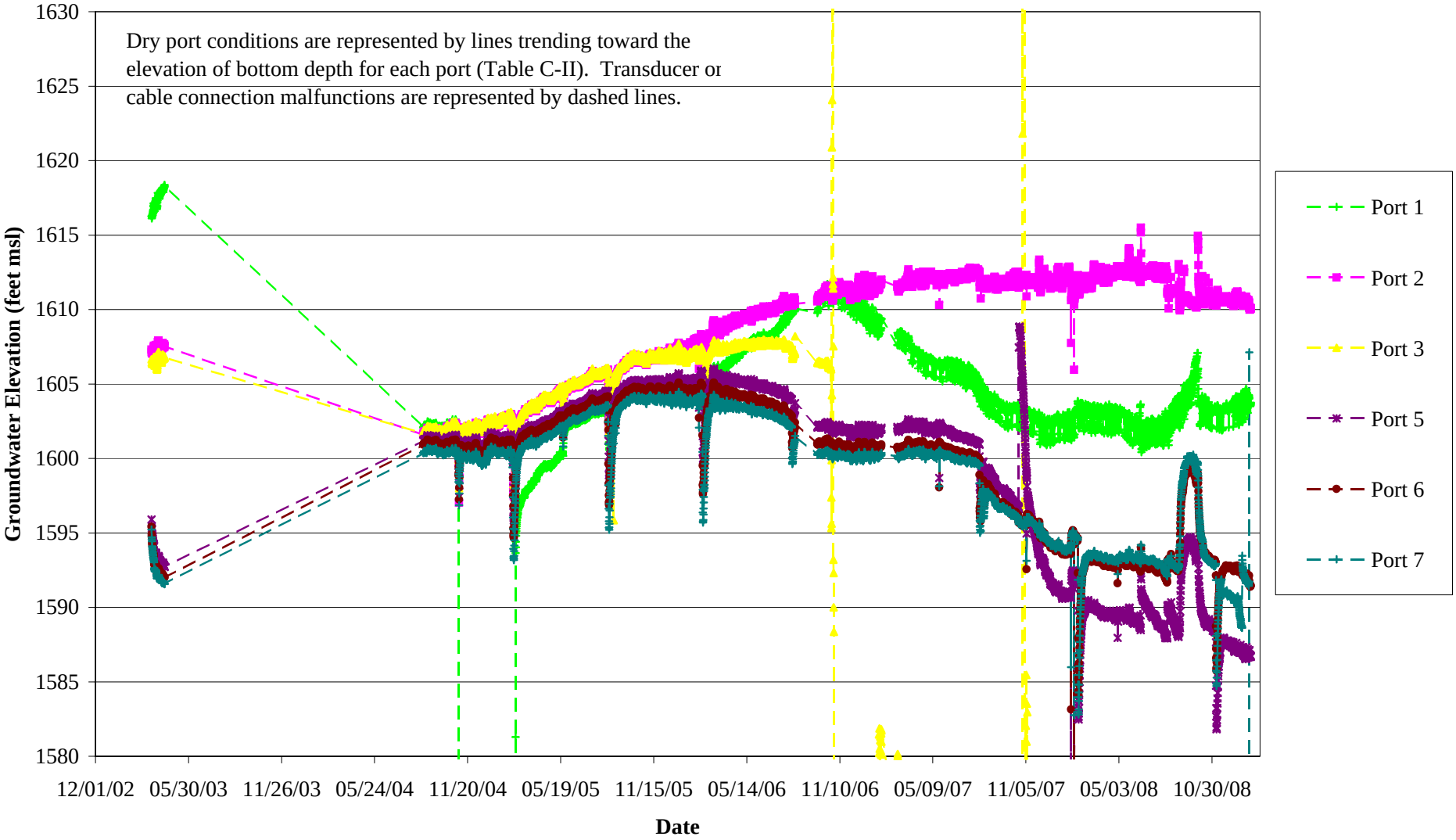

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Figure A-262
Chatsworth Formation Well RD-31 FLUTe Hydrograph

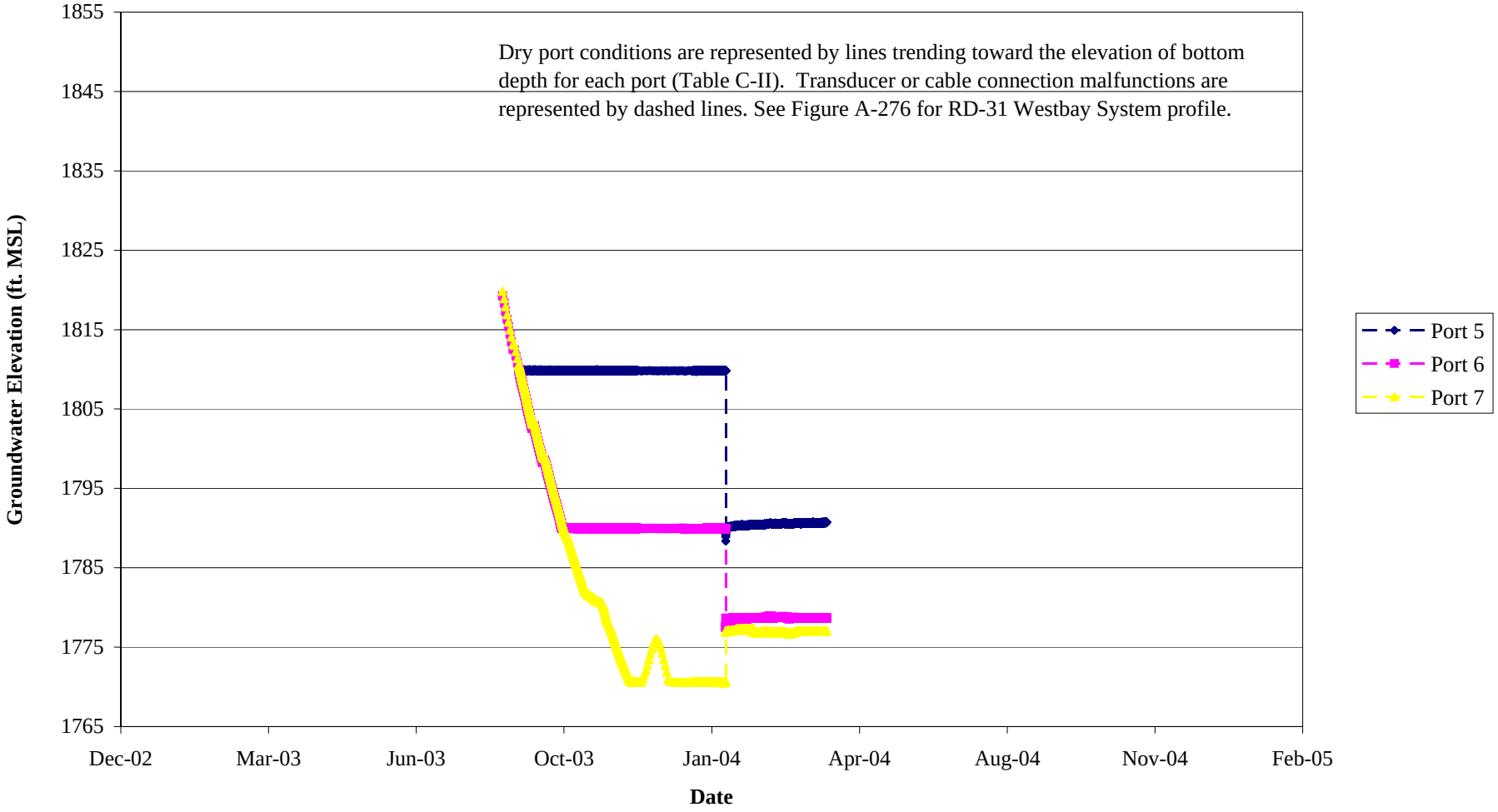

Figure A-263
Chatsworth Formation Well RD-33A FLUTe Hydrograph

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Figure A-264
Chatsworth Formation Well RD-50 FLUTe Hydrograph

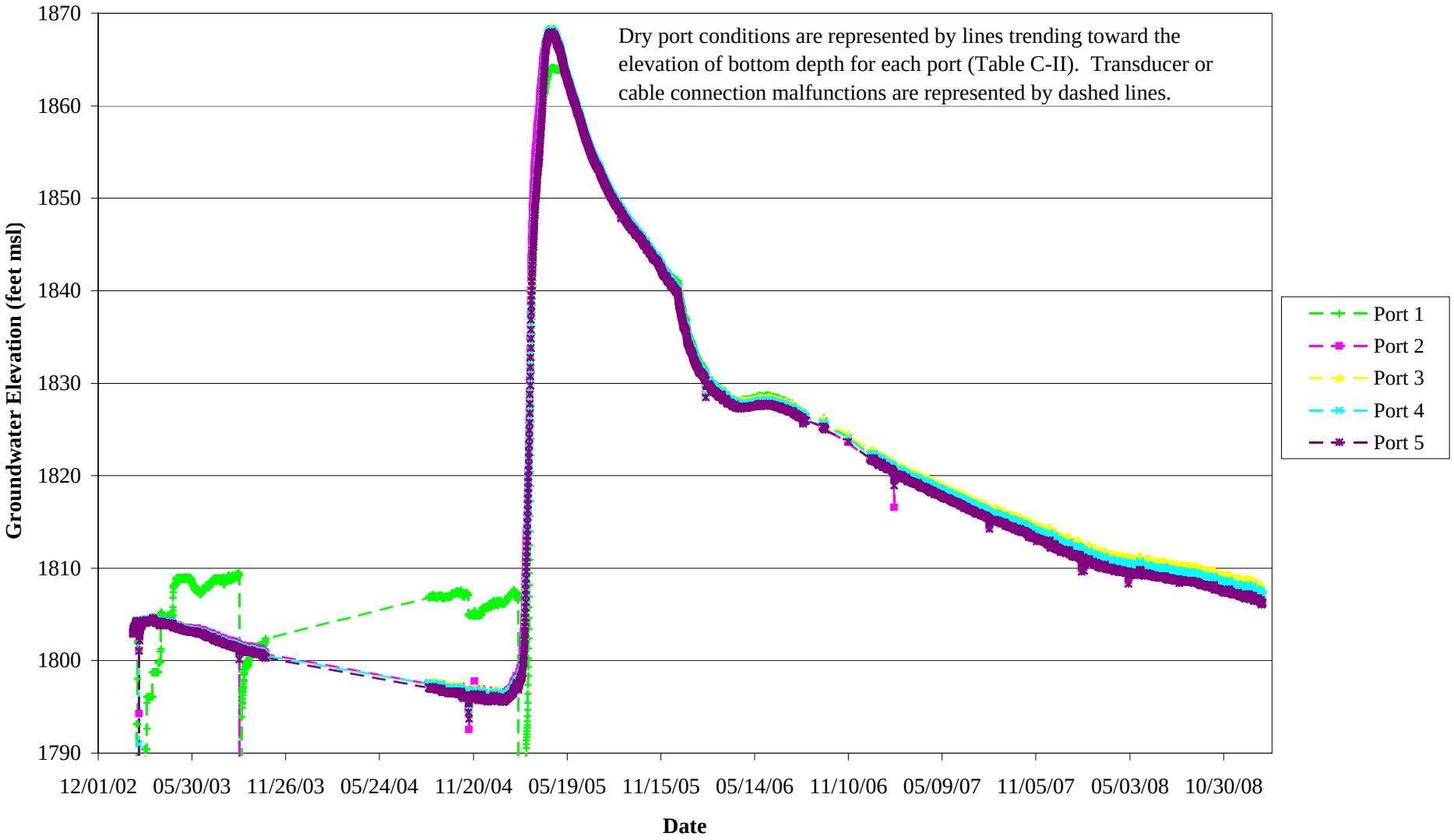

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Figure A-265
Chatsworth Formation Well RD-53 FLUTe Hydrograph

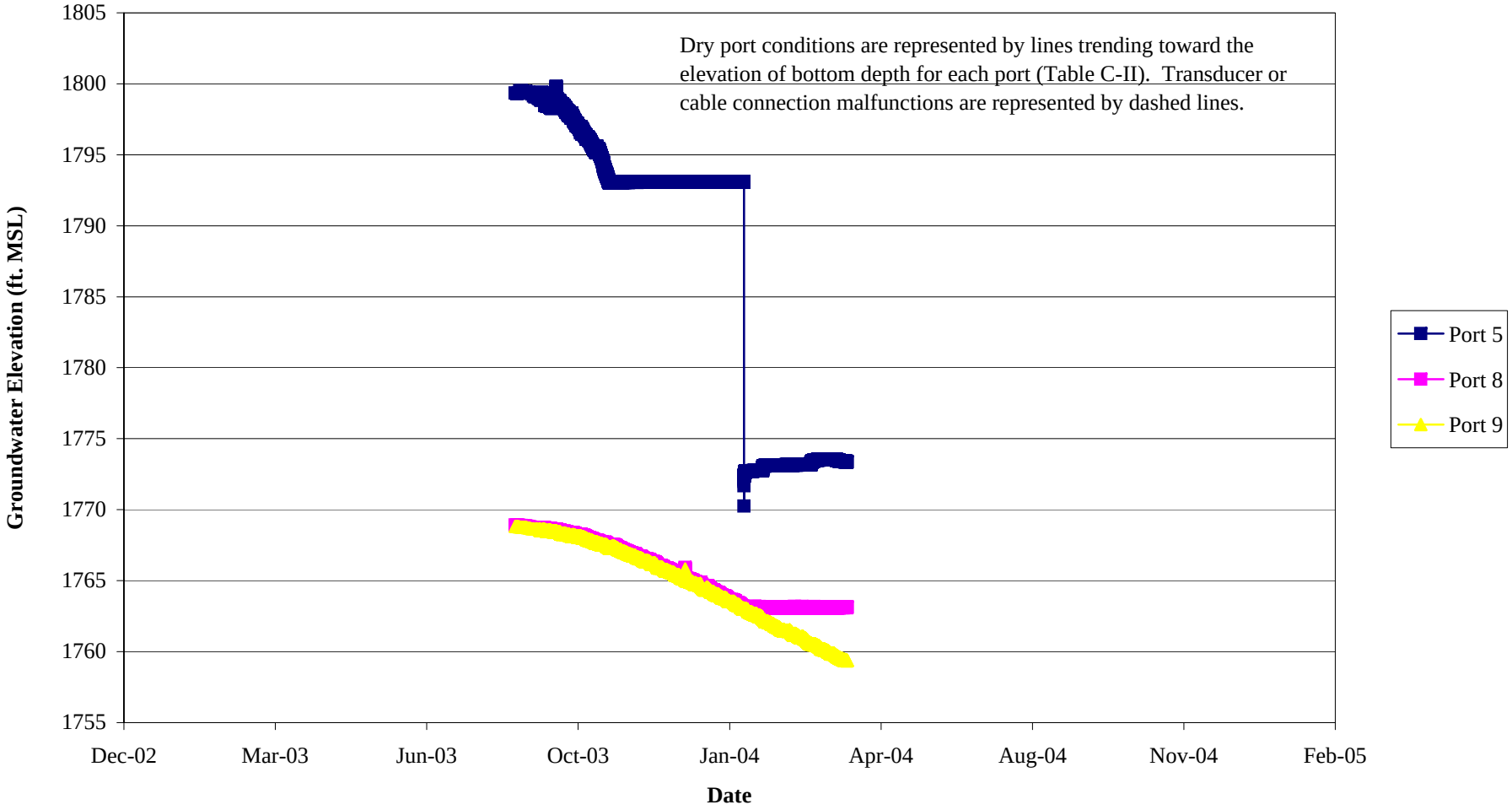

Figure A-266
Chatsworth Formation Well RD-54A FLUTe Hydrograph

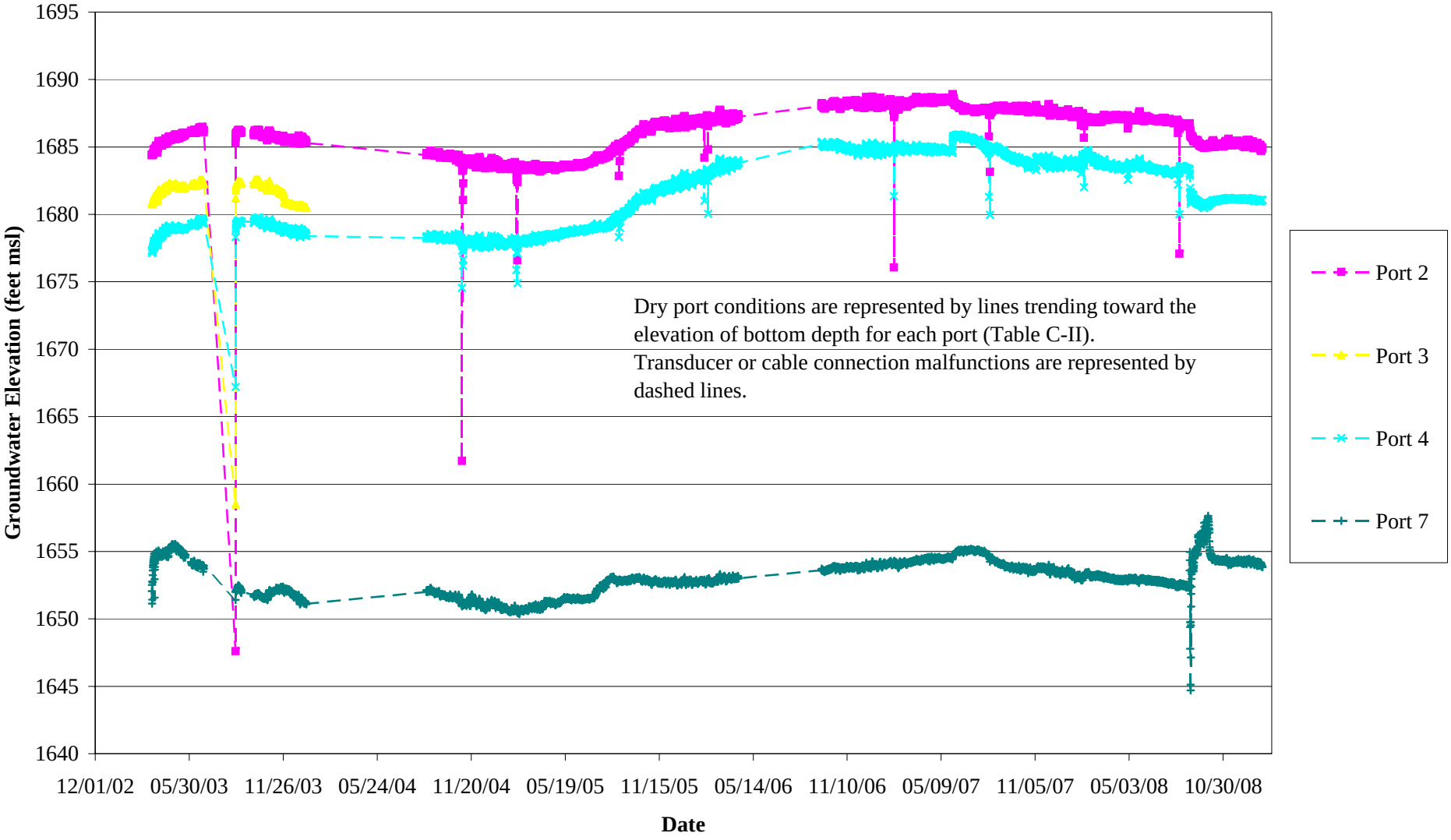

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Figure A-267
Chatsworth Formation Well RD-57 FLUTe Hydrograph

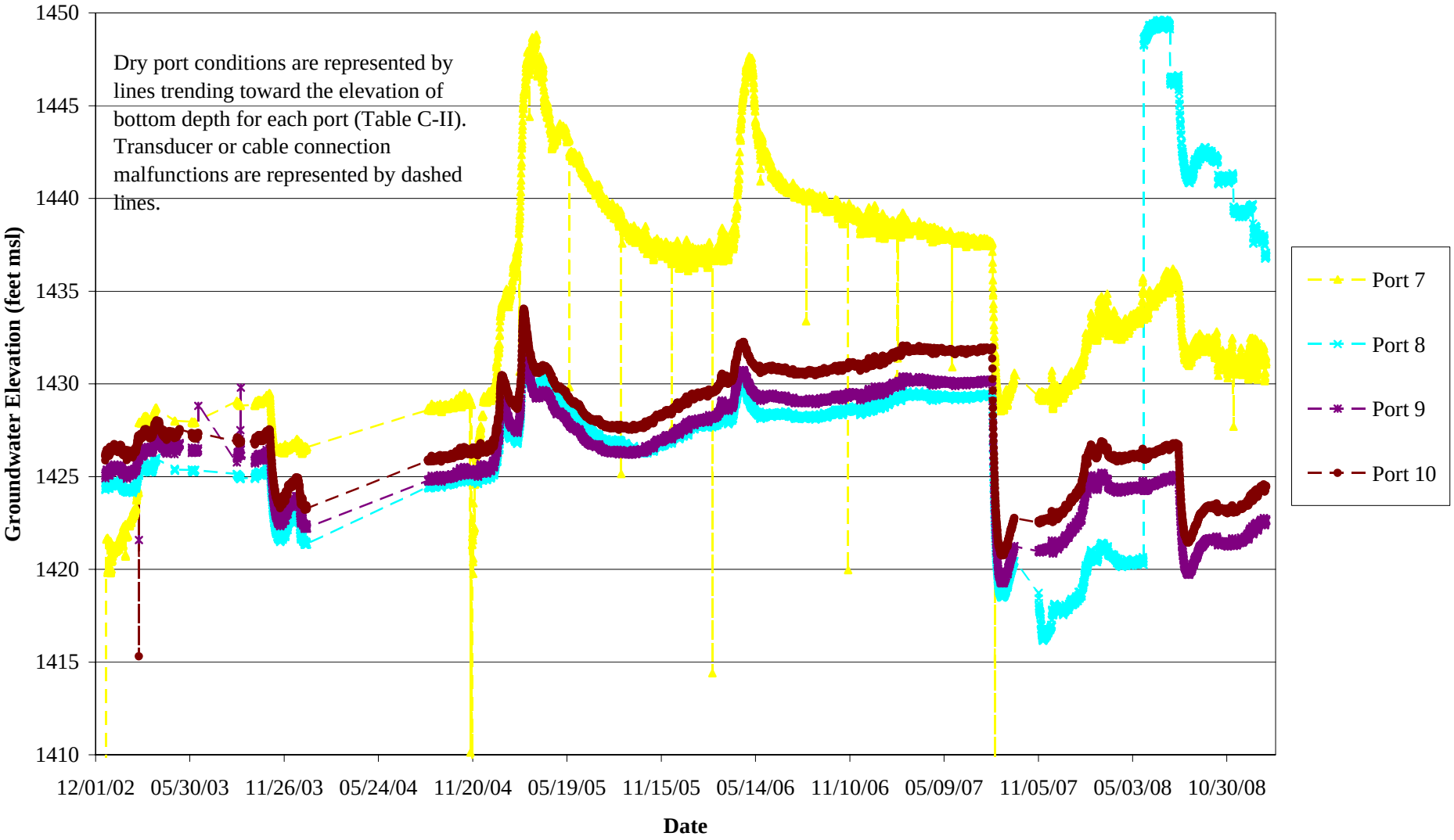

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Figure A-268
Chatsworth Formation Well RD-64 FLUTe Hydrograph

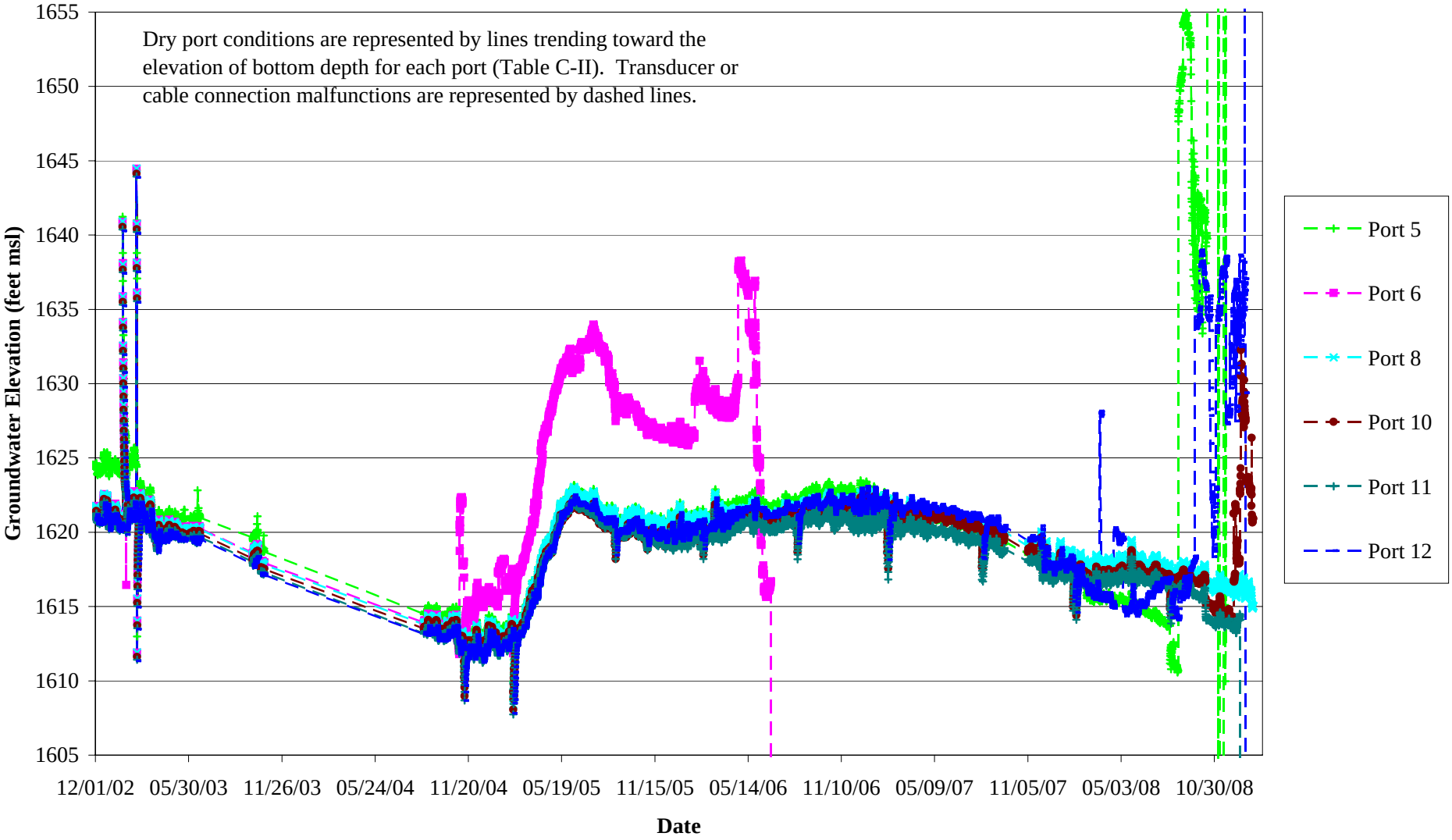

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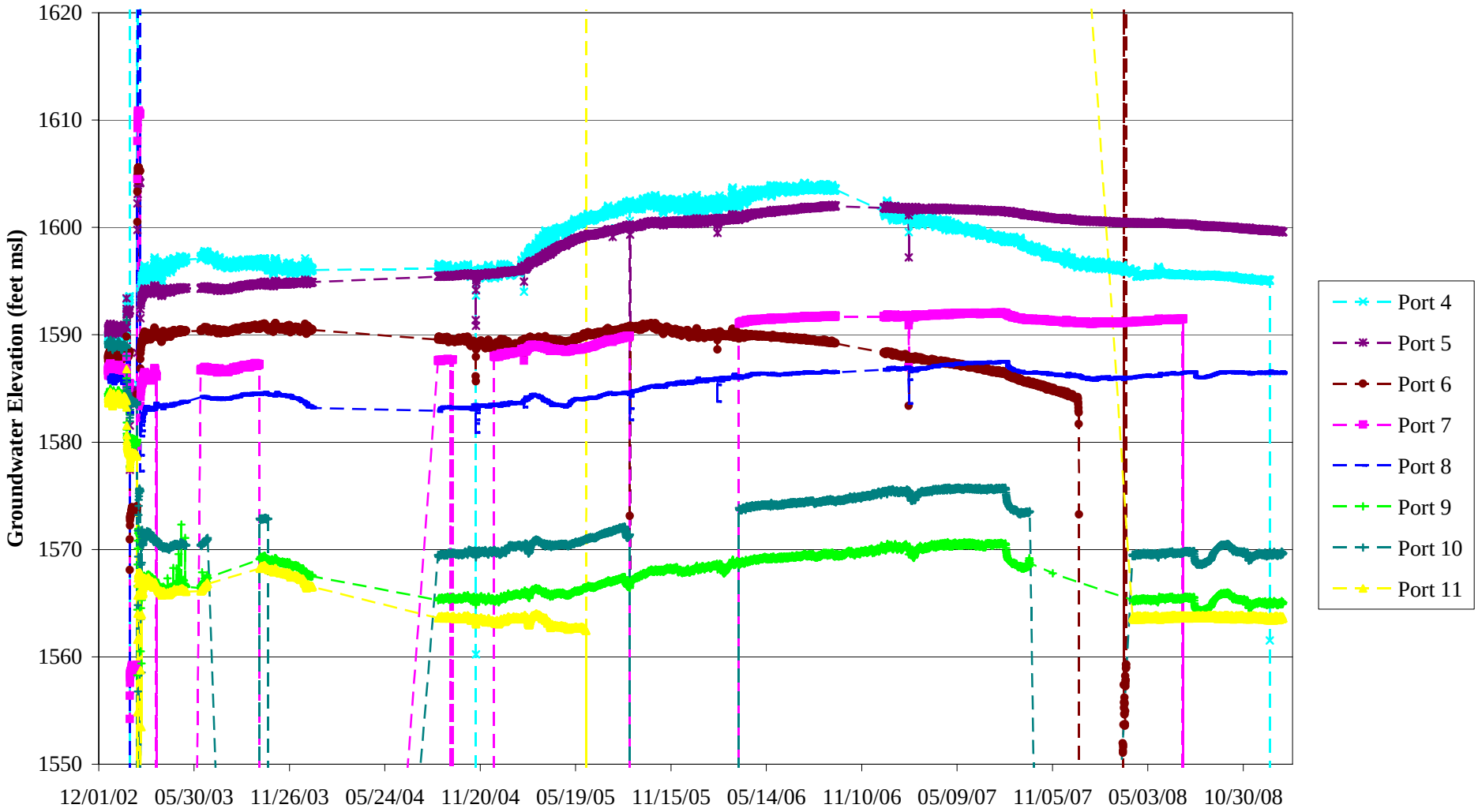
Figure A-269
Chatsworth Formation Well RD-65 FLUTe Hydrograph



Dry port conditions are represented by lines trending toward the elevation of bottom depth for each port (Table C-II). Transducer or cable connection malfunctions are represented by dashed lines.

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Figure A-270
Chatsworth Formation Well RD-72 FLUTe Hydrograph

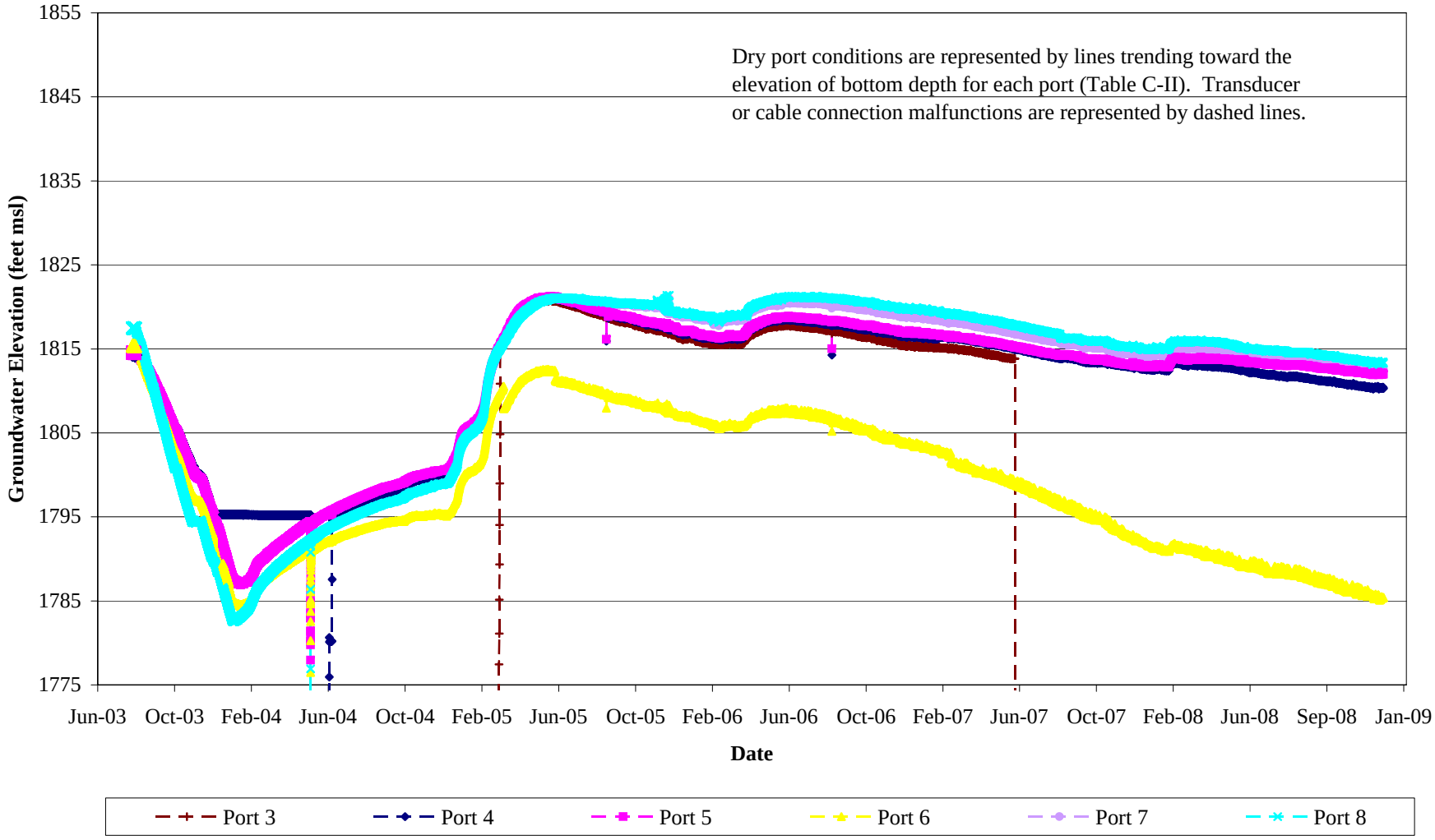

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Figure A-271
Chatsworth Formation Well RD-73 FLUTe Hydrograph

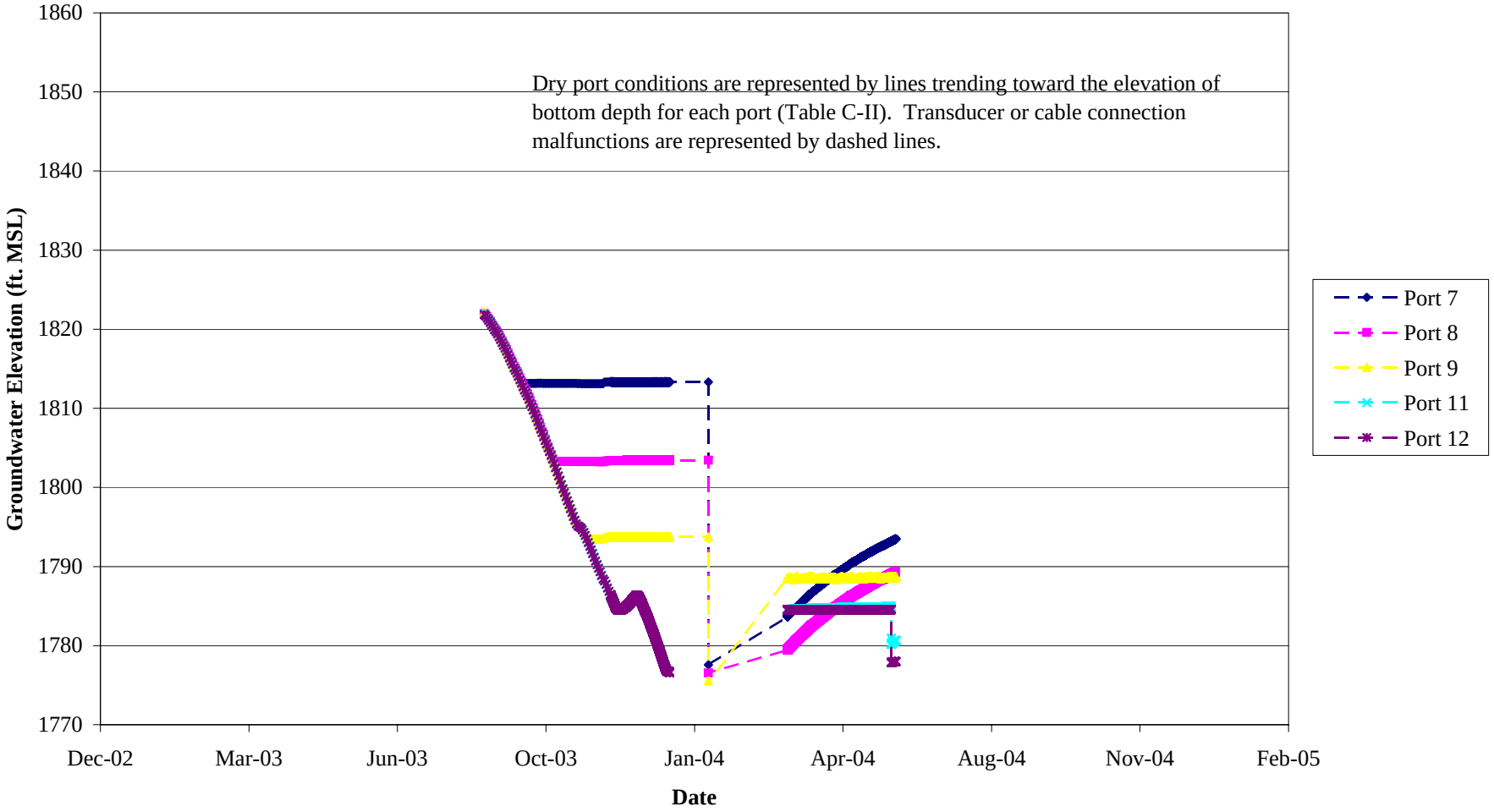

Figure A-272
Chatsworth Formation Well HAR-01 FLUTe Hydrograph

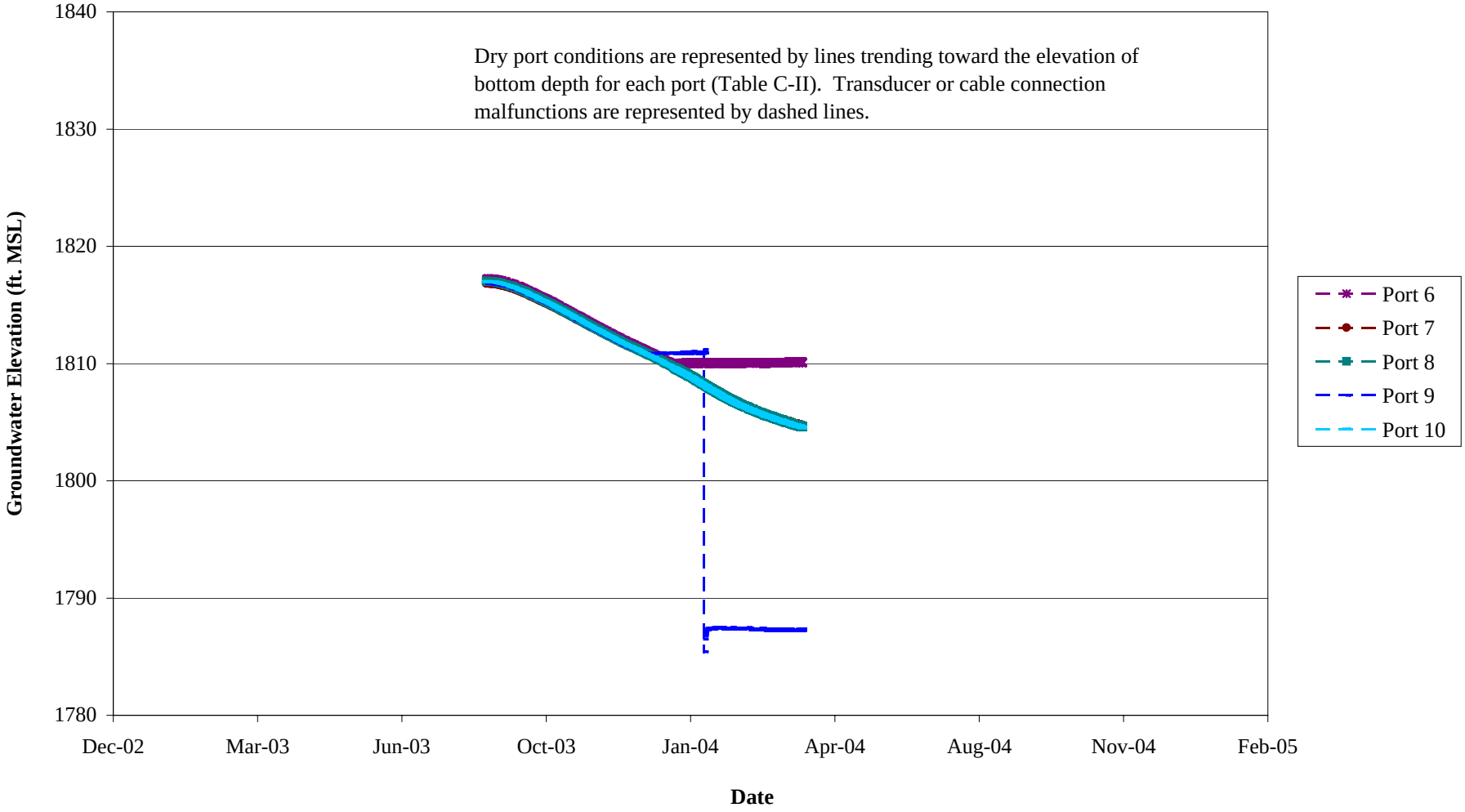

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Figure A-273
Chatsworth Formation Well HAR-16 FLUTe Hydrograph

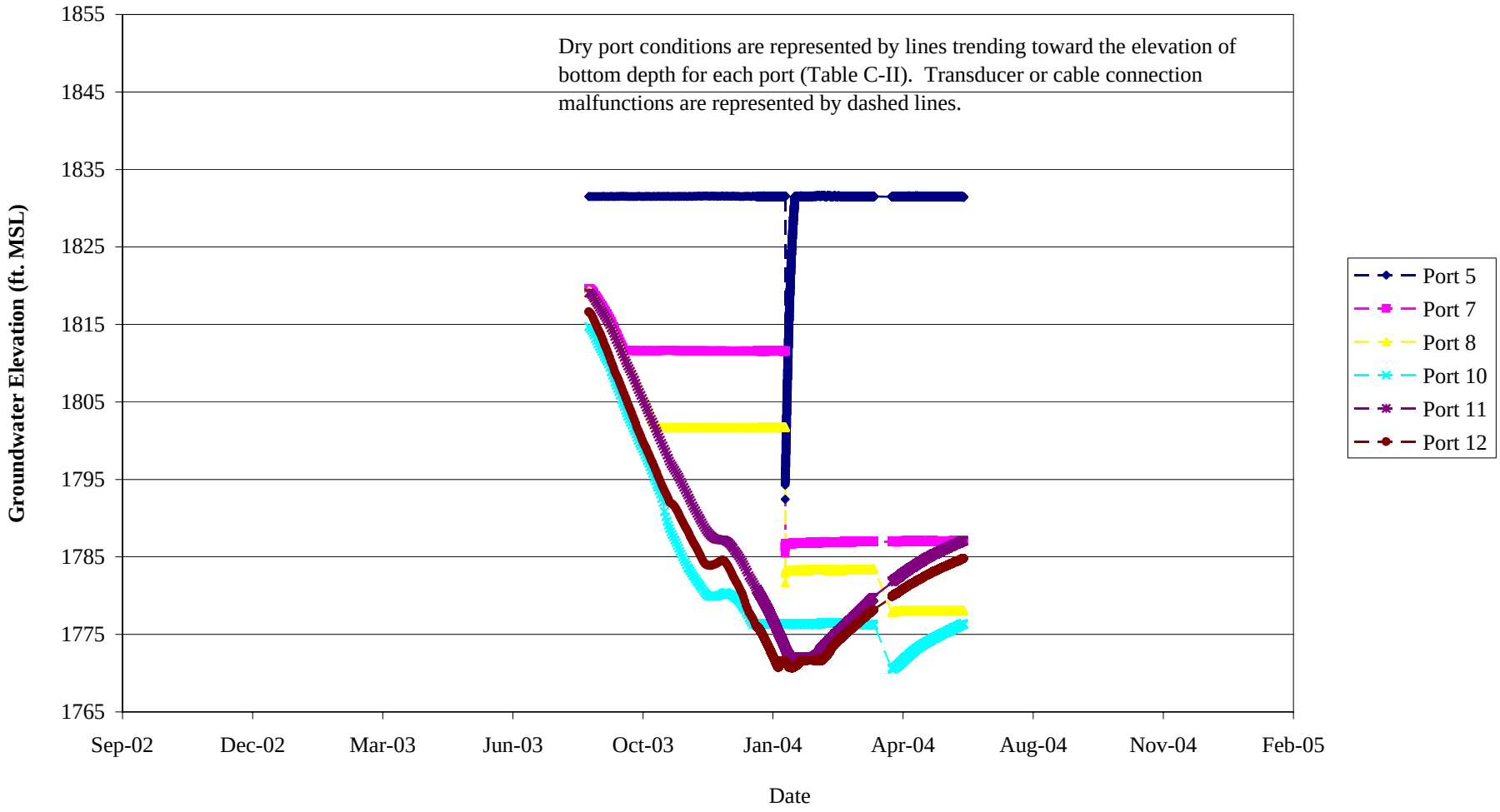


Figure A-274
Chatsworth Formation Well HAR-24 FLUTe Hydrograph

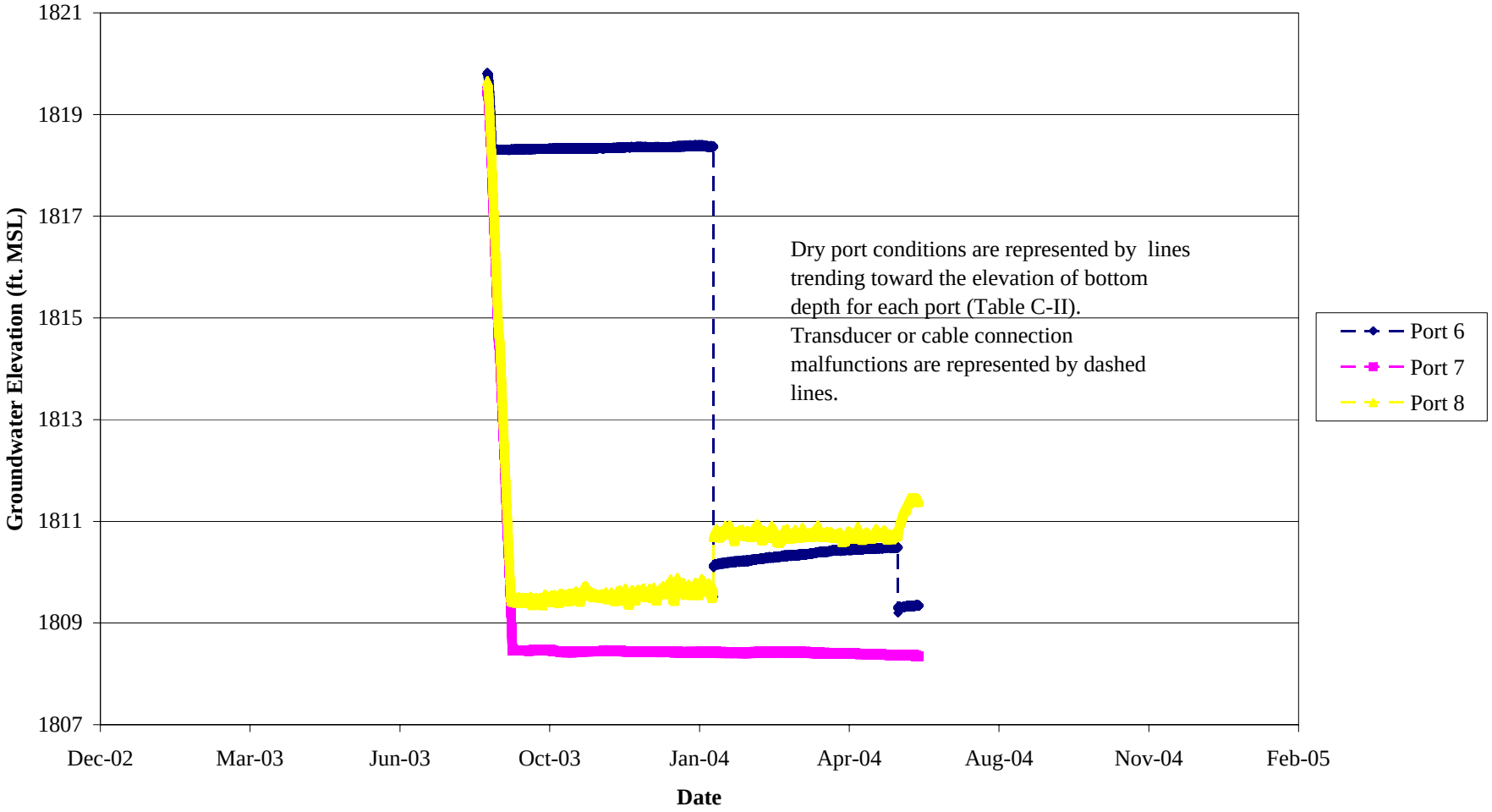


Figure A-275
Chatsworth Formation Well OS-24 FLUTe Transducer Measurements

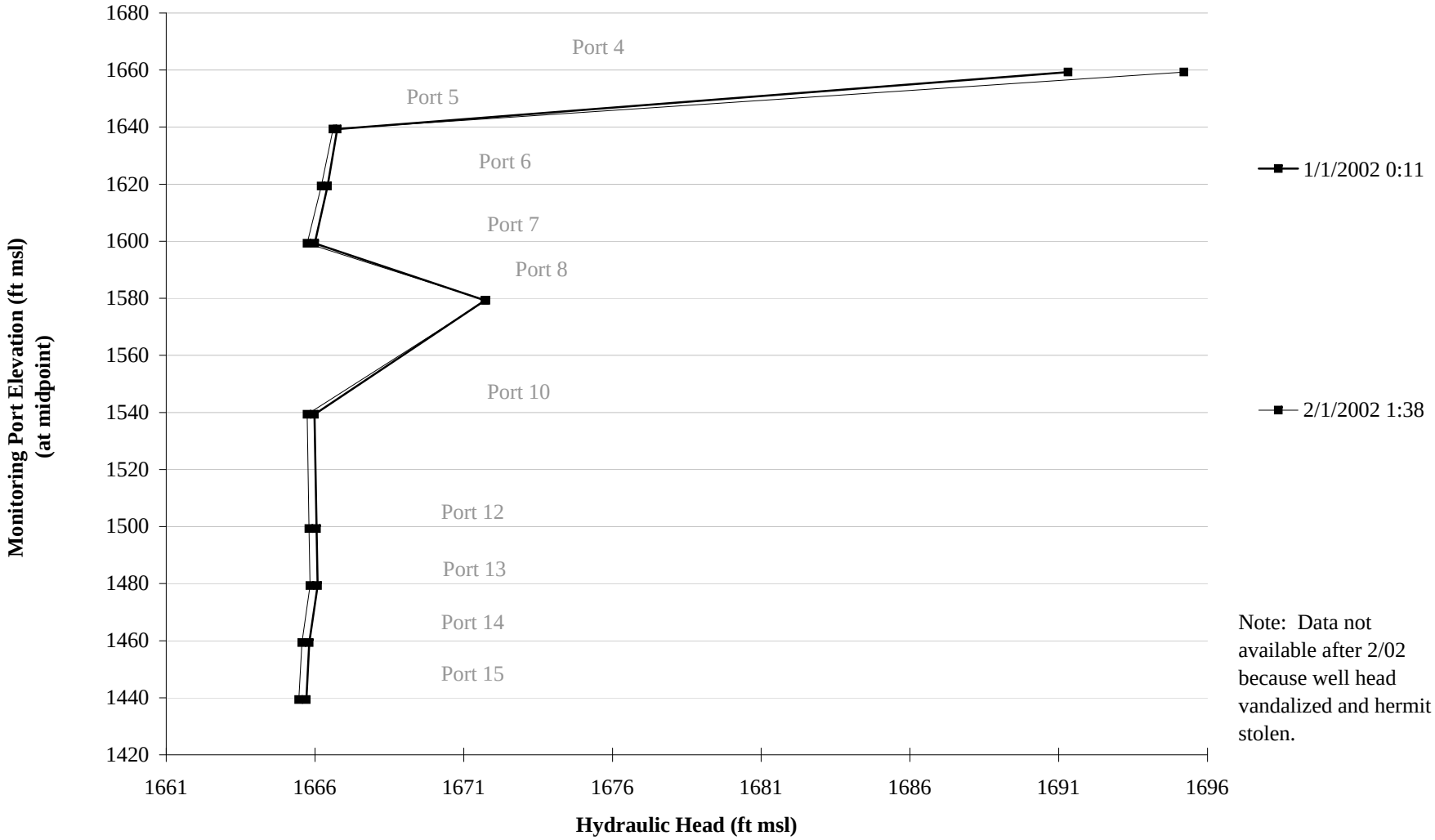
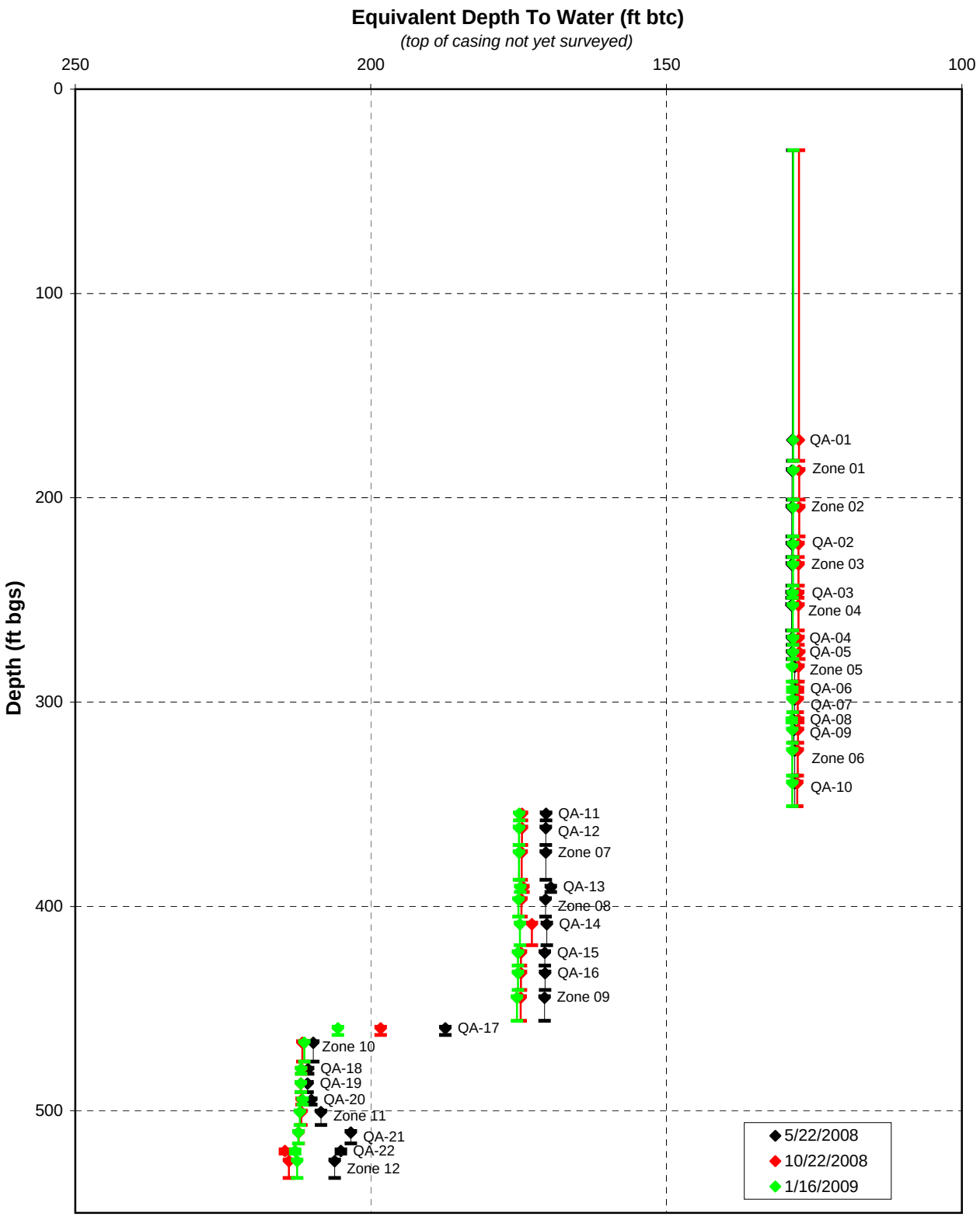


Figure A-276
Piezometric Profile
RD-31 Westbay System



APPENDIX B

Groundwater Monitoring Schedule

APPENDIX B
GROUNDWATER MONITORING SCHEDULE

TABLE OF CONTENTS

Tables

APPENDIX B

GROUNDWATER MONITORING SCHEDULE

The groundwater monitoring program for 2008 was conducted to fulfill the requirements of multiple regulatory programs prescribed by:

- the Post-Closure Permits (DTSC, 1995);
- Class 1 and Class 2 Permit Modifications of the Post-Closure Permits (DTSC, 2001);
- the LUFT program overseen by DTSC;
- various characterization efforts conducted at SSFL including the CFOU RFI groundwater investigation (Montgomery Watson, 2000b), the Happy Valley Interim Measures project (MWH, 2003f), the Perchlorate Characterization program (MWH, 2003e), the SMOU RFI program (Ogden, 2000), and the Area IV tritium investigation;
- the DTSC requirement to "collect both filtered/unfiltered samples on a quarterly basis for five quarters in all groundwater monitoring wells in which metals are a contaminant of potential concern" (DTSC, 2007a); and
- the Consent Order for Corrective Action issued on 16 August 2007 by DTSC (2007b).

Table B-I presents a summary of the actual analytical program conducted on the quarterly groundwater samples in 2008. The actual program varied from the required schedule due to groundwater level changes and requested additions to the monitoring schedule.

TABLE B-I
SUMMARY OF SAMPLING AND ANALYSES FOR WELLS, PIEZOMETERS, AND SPRINGS
QUARTERLY GROUNDWATER MONITORING PROGRAM, 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Sample Port Number	Date Sampled	Analysis Method	Sample Type
Shallow Wells				
ECL Sump		02/27/2008	8260B	Primary
ECL-FD		02/26/2008	8260B	Primary
ES-01		02/12/2008	8260B	Primary
ES-03		02/06/2008	8260B	Primary
ES-03		09/04/2008	8260B	Primary
ES-04		02/06/2008	8260B	Primary
ES-05		02/06/2008	8260B	Primary
ES-05		02/06/2008	8260B	Duplicate
ES-06		02/07/2008	8260B	Primary
ES-06		09/04/2008	8260B	Primary
ES-10		05/13/2008	8015B (EFH)	Primary
ES-10		05/13/2008	8290	Primary
ES-11		03/05/2008	8082	Primary
ES-11		03/05/2008	8260B	Primary
ES-11		03/05/2008	Metals, dissolved	Primary
ES-17		02/08/2008	8260B	Primary
ES-17		09/04/2008	8260B	Primary
ES-21		02/05/2008	8260B	Primary
ES-21		02/05/2008	Metals, diss (DTSC)	Primary
ES-21		02/05/2008	Metals, total (DTSC)	Primary
ES-21		05/21/2008	Metals, diss (DTSC)	Primary
ES-21		09/04/2008	7199, Dissolved	Primary
ES-21		09/04/2008	8015B (EFH)	Primary
ES-21		09/04/2008	8082	Primary
ES-21		09/04/2008	8260B	Primary
ES-21		09/04/2008	8260SIM	Primary
ES-21		09/04/2008	8270C	Primary
ES-21		09/04/2008	8290	Primary
ES-21		09/04/2008	Metals, diss (DTSC)	Primary
ES-22		02/08/2008	8260B	Primary
ES-22		09/05/2008	8260B	Primary
ES-23		02/08/2008	8260B	Primary
ES-23		09/08/2008	8260B	Primary
ES-24		02/12/2008	8260B	Primary
ES-24		02/12/2008	Metals, diss (DTSC)	Primary
ES-24		02/12/2008	Metals, total (DTSC)	Primary
ES-24		05/19/2008	Metals, diss (DTSC)	Primary
ES-24		05/19/2008	Metals, total (DTSC)	Primary
ES-26		02/08/2008	8260B	Primary
ES-26		09/08/2008	8260B	Primary
ES-27		02/08/2008	8260B	Primary
ES-27		09/05/2008	8260B	Primary
ES-27		09/05/2008	8260B	Duplicate
ES-30		03/11/2008	8260B	Primary
ES-30		09/03/2008	8260B	Primary
ES-31		02/01/2008	6010B-Total(K)	Primary
ES-31		02/01/2008	8260B	Primary
ES-31		02/01/2008	900.0-dissolved	Primary

See last three pages of Table B-I for notes and abbreviations.

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Well Identifier	Sample Port Number	Date Sampled	Analysis Method	Sample Type
ES-31		02/01/2008	901.1-dissolved	Primary
ES-31		02/01/2008	903.1-dissolved	Primary
ES-31		02/01/2008	904.0-dissolved	Primary
ES-31		02/01/2008	905.0-dissolved	Primary
ES-31		02/01/2008	906.0-total	Primary
ES-31		08/19/2008	900.0-dissolved	Primary
ES-31		08/19/2008	903.1-dissolved	Primary
ES-31		08/19/2008	904.0-dissolved	Primary
ES-32		05/19/2008	8260B	Primary
HAR-03		02/29/2008	8260B	Primary
HAR-04		02/07/2008	8260B	Primary
HAR-04		02/07/2008	8260B	Duplicate
HAR-04		02/07/2008	8260B	Split
HAR-04		09/04/2008	8260B	Primary
HAR-11		03/03/2008	8260B	Primary
HAR-11		09/04/2008	7199, Dissolved	Primary
HAR-11		09/04/2008	8015B (EFH)	Primary
HAR-11		09/04/2008	8260B	Primary
HAR-11		09/04/2008	8260SIM	Primary
HAR-11		09/04/2008	8270C	Primary
HAR-11		09/04/2008	8290	Primary
HAR-11		09/04/2008	Metals-RFI G2, diss	Primary
HAR-11		12/02/2008	8260B	Primary
HAR-11		12/02/2008	8260B	Duplicate
HAR-11		12/02/2008	8260B	Split
HAR-14		04/22/2008	521-NDMA,NDEA,NDPA	Primary
HAR-14		04/22/2008	AppIX	Primary
HAR-14		08/21/2008	7199, Dissolved	Primary
HAR-14		08/21/2008	8015B (EFH)	Primary
HAR-14		08/21/2008	8260B	Primary
HAR-14		08/21/2008	8260SIM	Primary
HAR-14		08/21/2008	8270C	Primary
HAR-14		08/21/2008	8290	Primary
HAR-14		08/21/2008	Metals-RFI G2, diss	Primary
HAR-14		11/03/2008	8260B	Primary
HAR-15		04/22/2008	521-NDMA,NDEA,NDPA	Primary
HAR-15		04/22/2008	521-NDMA,NDEA,NDPA	Duplicate
HAR-15		04/22/2008	AppIX	Primary
HAR-15		08/21/2008	7199, Dissolved	Primary
HAR-15		08/21/2008	8015B (EFH)	Primary
HAR-15		08/21/2008	8260B	Primary
HAR-15		08/21/2008	8260SIM	Primary
HAR-15		08/21/2008	8270C	Primary
HAR-15		08/21/2008	8290	Primary
HAR-15		08/21/2008	Metals-RFI G2, diss	Primary
HAR-15		11/03/2008	8260B	Primary
HAR-15		11/03/2008	8260B	Duplicate
HAR-15		11/03/2008	8260B	Split
HAR-27		03/11/2008	8260B	Primary

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Well Identifier	Sample Port Number	Date Sampled	Analysis Method	Sample Type
HAR-27		09/09/2008	8260B	Primary
RS-07		01/31/2008	8260B	Primary
RS-08		04/22/2008	521-NDMA,NDEA,NDPA	Primary
RS-08		04/22/2008	AppIX	Primary
RS-11		05/02/2008	6010B-Total(K)	Primary
RS-11		05/02/2008	8260B	Primary
RS-11		05/02/2008	900.0-dissolved	Primary
RS-11		05/02/2008	901.1-dissolved	Primary
RS-11		05/02/2008	903.1-dissolved	Primary
RS-11		05/02/2008	904.0-dissolved	Primary
RS-11		05/02/2008	905.0-dissolved	Primary
RS-11		05/02/2008	906.0-total	Primary
RS-11		05/02/2008	908.0-dissolved	Primary
RS-13		01/31/2008	8260B	Primary
RS-16		02/01/2008	314.0	Primary
RS-16		02/01/2008	6010B-Total(K)	Primary
RS-16		02/01/2008	8015B (EFH)	Primary
RS-16		02/01/2008	8082	Primary
RS-16		02/01/2008	8260B	Primary
RS-16		02/01/2008	8270C	Primary
RS-16		02/01/2008	900.0-dissolved	Primary
RS-16		02/01/2008	901.1-dissolved	Primary
RS-16		02/01/2008	903.1-dissolved	Primary
RS-16		02/01/2008	904.0-dissolved	Primary
RS-16		02/01/2008	905.0-dissolved	Primary
RS-16		02/01/2008	906.0-total	Primary
RS-16		02/01/2008	Metals, dissolved	Primary
RS-18		02/04/2008	Metals, dissolved	Primary
RS-18		02/04/2008	6010B-Total(K)	Primary
RS-18		02/04/2008	8260B	Primary
RS-18		02/04/2008	900.0-dissolved	Primary
RS-18		02/04/2008	901.1-dissolved	Primary
RS-18		02/04/2008	903.1-dissolved	Primary
RS-18		02/04/2008	904.0-dissolved	Primary
RS-18		02/04/2008	905.0-dissolved	Primary
RS-18		02/04/2008	906.0-total	Primary
RS-18		02/04/2008	907.0-dissolved	Primary
RS-18		02/04/2008	908.0-dissolved	Primary
RS-18		04/29/2008	Metals, dissolved	Primary
RS-19		03/05/2008	8260B	Primary
RS-21		02/05/2008	8260B	Primary
RS-25		02/13/2008	6010B-Total(K)	Primary
RS-25		02/13/2008	900.0-dissolved	Primary
RS-25		02/13/2008	901.1-dissolved	Primary
RS-25		02/13/2008	903.1-dissolved	Primary
RS-25		02/13/2008	904.0-dissolved	Primary
RS-25		02/13/2008	905.0-dissolved	Primary
RS-25		02/13/2008	906.0-total	Primary
RS-25		02/13/2008	908.0-dissolved	Primary

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Well Identifier	Sample Port Number	Date Sampled	Analysis Method	Sample Type
RS-28		02/06/2008	6010B-Total(K)	Primary
RS-28		02/06/2008	8260B	Primary
RS-28		02/06/2008	900.0-dissolved	Primary
RS-28		02/06/2008	901.1-dissolved	Primary
RS-28		02/06/2008	903.1-dissolved	Primary
RS-28		02/06/2008	904.0-dissolved	Primary
RS-28		02/06/2008	905.0-dissolved	Primary
RS-28		02/06/2008	906.0-total	Primary
RS-28		05/21/2008	Metals, dissolved	Primary
RS-28		08/19/2008	900.0-dissolved	Primary
RS-28		08/19/2008	903.1-dissolved	Primary
RS-28		08/19/2008	904.0-dissolved	Primary
RS-28		08/19/2008	Metals, dissolved	Primary
RS-28		11/14/2008	8015B (EFH)	Primary
RS-28		11/14/2008	8260B	Primary
RS-28		11/14/2008	8270C	Primary
RS-28		11/14/2008	Metals, dissolved	Primary
RS-30		05/01/2008	8260B	Primary
RS-30		05/01/2008	8015B (GRO)	Primary
RS-31		05/01/2008	8015B (GRO)	Primary
RS-31		05/01/2008	8260B	Primary
RS-32		03/06/2008	521-NDMA	Primary
RS-32		03/06/2008	521-NDMA	Duplicate
RS-32		03/06/2008	8015B (GRO)	Primary
RS-32		03/06/2008	8260B	Primary
RS-32		03/06/2008	8270C	Primary
RS-54		02/12/2008	6010B-Total(K)	Primary
RS-54		02/12/2008	8015B (EFH)	Primary
RS-54		02/12/2008	8260B	Primary
RS-54		02/12/2008	Metals, diss (DTSC)	Primary
RS-54		02/12/2008	Metals, total (DTSC)	Primary
RS-54		02/22/2008	900.0-dissolved	Primary
RS-54		02/22/2008	901.1-dissolved	Primary
RS-54		02/22/2008	903.1-dissolved	Primary
RS-54		02/22/2008	904.0-dissolved	Primary
RS-54		02/22/2008	905.0-dissolved	Primary
RS-54		02/22/2008	906.0-total	Primary
RS-54		02/22/2008	907.0-dissolved	Primary
RS-54		02/22/2008	908.0-dissolved	Primary
RS-54		05/21/2008	Metals, diss (DTSC)	Primary
RS-54		05/21/2008	Metals, total (DTSC)	Primary
RS-54		09/04/2008	8260B	Primary
RS-54		09/04/2008	900.0-dissolved	Primary
RS-54		09/04/2008	903.1-dissolved	Primary
RS-54		09/04/2008	904.0-dissolved	Primary
RS-54		09/04/2008	906.0-total	Primary
RS-54		09/04/2008	908.0-dissolved	Primary
SH-01		02/04/2008	8310-PAHs	Primary
SH-01		02/04/2008	8315A-Formaldehyde	Primary

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Well Identifier	Sample Port Number	Date Sampled	Analysis Method	Sample Type
SH-01		04/30/2008	8310-PAHs	Primary
SH-01		04/30/2008	8315A-Formaldehyde	Primary
SH-02		02/05/2008	8081A	Primary
SH-02		02/05/2008	8310-PAHs	Primary
SH-02		02/05/2008	8315A-Formaldehyde	Primary
SH-02		04/30/2008	8081A	Primary
SH-02		04/30/2008	8081A	Split
SH-02		04/30/2008	8310-PAHs	Primary
SH-02		04/30/2008	8315A-Formaldehyde	Primary
SH-03		02/05/2008	8081A	Primary
SH-03		02/05/2008	8260B	Primary
SH-03		02/05/2008	8310-PAHs	Primary
SH-03		02/05/2008	8315A-Formaldehyde	Primary
SH-03		05/02/2008	8081A	Primary
SH-03		05/02/2008	8081A	Split
SH-03		05/02/2008	8310-PAHs	Primary
SH-03		05/02/2008	8315A-Formaldehyde	Primary
SH-04		02/04/2008	8081A	Primary
SH-04		02/04/2008	8310-PAHs	Primary
SH-04		02/04/2008	8315A-Formaldehyde	Primary
SH-04		04/23/2008	521-NDMA,NDEA,NDPA	Primary
SH-04		04/23/2008	8081A	Split
SH-04		04/23/2008	8310-PAHs	Primary
SH-04		04/23/2008	8315A-Formaldehyde	Primary
SH-04		04/23/2008	AppIX	Primary
SH-05		02/05/2008	8081A	Primary
SH-05		02/05/2008	8310-PAHs	Primary
SH-05		02/05/2008	8315A-Formaldehyde	Primary
SH-05		05/02/2008	8081A	Primary
SH-05		05/02/2008	8081A	Split
SH-05		05/02/2008	8310-PAHs	Primary
SH-05		05/02/2008	8315A-Formaldehyde	Primary
SH-08		02/05/2008	8081A	Primary
SH-08		02/05/2008	8310-PAHs	Primary
SH-08		02/05/2008	8315A-Formaldehyde	Primary
SH-08		05/02/2008	8081A	Primary
SH-08		05/02/2008	8081A	Split
SH-08		05/02/2008	8310-PAHs	Primary
SH-08		05/02/2008	8315A-Formaldehyde	Primary
SH-09		02/05/2008	8081A	Primary
SH-09		02/05/2008	8310-PAHs	Primary
SH-09		02/05/2008	8315A-Formaldehyde	Primary
SH-09		05/02/2008	8081A	Primary
SH-09		05/02/2008	8081A	Split
SH-09		05/02/2008	8310-PAHs	Primary
SH-09		05/02/2008	8315A-Formaldehyde	Primary
SH-10		02/05/2008	8310-PAHs	Primary
SH-10		02/05/2008	8315A-Formaldehyde	Primary
SH-11		02/05/2008	8260B	Primary

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Well Identifier	Sample Port Number	Date Sampled	Analysis Method	Sample Type
SH-11		02/05/2008	8310-PAHs	Primary
SH-11		02/05/2008	8315A-Formaldehyde	Primary
SH-11		05/02/2008	8310-PAHs	Primary
SH-11		05/02/2008	8315A-Formaldehyde	Primary
Piezometers				
PZ-001	D	05/01/2008	8015B (EFH)	Primary
PZ-001	D	05/01/2008	8260B	Primary
PZ-001	D	05/01/2008	8270C	Primary
PZ-001	D	05/01/2008	Metals-RFI G2, diss	Primary
PZ-001	E	05/01/2008	8015B (EFH)	Primary
PZ-001	E	05/01/2008	8260B	Primary
PZ-001	E	05/01/2008	8270C	Primary
PZ-001	E	05/01/2008	Metals-RFI G2, diss	Primary
PZ-001	F	05/01/2008	8260B	Primary
PZ-001	F	05/01/2008	Metals-RFI G2, diss	Primary
PZ-005		02/19/2008	300.0-Full	Primary
PZ-005		05/09/2008	300.0-Full	Primary
PZ-005		08/21/2008	300.0-Full	Primary
PZ-006	A	02/26/2008	8310-PAHs	Primary
PZ-006	A	02/26/2008	8315A-Formaldehyde	Primary
PZ-006	C	02/27/2008	8310-PAHs	Primary
PZ-006	C	02/27/2008	8315A-Formaldehyde	Primary
PZ-006	D	02/27/2008	8310-PAHs	Primary
PZ-006	D	02/27/2008	8315A-Formaldehyde	Primary
PZ-006	C	04/30/2008	8310-PAHs	Primary
PZ-006	C	04/30/2008	8315A-Formaldehyde	Primary
PZ-006	D	04/30/2008	8310-PAHs	Primary
PZ-006	D	04/30/2008	8315A-Formaldehyde	Primary
PZ-006	E	04/30/2008	8310-PAHs	Primary
PZ-006	E	04/30/2008	8315A-Formaldehyde	Primary
PZ-007	D	05/16/2008	8015B (EFH)	Primary
PZ-007	D	05/16/2008	8260B	Primary
PZ-007	D	05/16/2008	8270C	Primary
PZ-007	D	05/16/2008	Metals-RFI G2, diss	Primary
PZ-007	E	05/16/2008	8015B (EFH)	Primary
PZ-007	E	05/16/2008	8260B	Primary
PZ-007	E	05/16/2008	8270C	Primary
PZ-007	E	05/16/2008	Metals-RFI G2, diss	Primary
PZ-007	F	05/16/2008	8015B (EFH)	Primary
PZ-007	F	05/16/2008	8260B	Primary
PZ-007	F	05/16/2008	8270C	Primary
PZ-007	F	05/16/2008	Metals-RFI G2, diss	Primary
PZ-009	C	05/21/2008	8260B	Primary
PZ-009	C	05/21/2008	Metals-RFI G2, diss	Primary
PZ-009	D	05/21/2008	8260B	Primary
PZ-009	E	05/21/2008	8260B	Primary
PZ-009	E	05/21/2008	Metals-RFI G2, diss	Primary
PZ-009	F	05/21/2008	8260B	Primary
PZ-009	F	05/21/2008	Metals-RFI G2, diss	Primary

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Well Identifier	Sample Port Number	Date Sampled	Analysis Method	Sample Type
PZ-010	D	05/21/2008	8260B	Primary
PZ-010	E	05/21/2008	8260B	Primary
PZ-010	E	05/21/2008	Metals-RFI G2, diss	Primary
PZ-010	F	05/21/2008	8015B (EFH)	Primary
PZ-010	F	05/21/2008	8260B	Primary
PZ-010	F	05/21/2008	8270C	Primary
PZ-010	F	05/21/2008	Metals-RFI G2, diss	Primary
PZ-010	G	05/21/2008	8260B	Primary
PZ-010	G	05/21/2008	Metals-RFI G2, diss	Primary
PZ-020		05/12/2008	8015B (EFH)	Primary
PZ-020		05/12/2008	8260B	Primary
PZ-020		05/12/2008	8270C	Primary
PZ-020		05/12/2008	Metals-RFI G2, diss	Primary
PZ-022		05/14/2008	8015B (EFH)	Primary
PZ-022		05/14/2008	8260B	Primary
PZ-022		05/14/2008	8270C	Primary
PZ-022		05/14/2008	Metals-RFI G2, diss	Primary
PZ-023		02/20/2008	8310-PAHs	Primary
PZ-023		02/20/2008	8315A-Formaldehyde	Primary
PZ-023		05/06/2008	8310-PAHs	Primary
PZ-023		05/06/2008	8315A-Formaldehyde	Primary
PZ-025		02/22/2008	8310-PAHs	Primary
PZ-025		02/22/2008	8315A-Formaldehyde	Primary
PZ-025		05/05/2008	8310-PAHs	Primary
PZ-025		05/05/2008	8315A-Formaldehyde	Primary
PZ-025		08/19/2008	8310-PAHs	Primary
PZ-025		08/19/2008	8315A-Formaldehyde	Primary
PZ-025		11/11/2008	8310-PAHs	Primary
PZ-025		11/11/2008	8315A-Formaldehyde	Primary
PZ-026		02/21/2008	8310-PAHs	Primary
PZ-026		02/21/2008	8315A-Formaldehyde	Primary
PZ-026		05/07/2008	8310-PAHs	Primary
PZ-026		05/07/2008	8315A-Formaldehyde	Primary
PZ-026		09/10/2008	8310-PAHs	Primary
PZ-026		09/10/2008	8315A-Formaldehyde	Primary
PZ-027		02/25/2008	8310-PAHs	Primary
PZ-027		02/25/2008	8315A-Formaldehyde	Primary
PZ-027		05/05/2008	8310-PAHs	Primary
PZ-027		05/05/2008	8315A-Formaldehyde	Primary
PZ-027		11/11/2008	8310-PAHs	Primary
PZ-027		11/11/2008	8315A-Formaldehyde	Primary
PZ-028		05/06/2008	8310-PAHs	Primary
PZ-028		05/06/2008	8315A-Formaldehyde	Primary
PZ-041		05/13/2008	425.1 Surfactants	Primary
PZ-041		09/10/2008	425.1 Surfactants	Primary
PZ-045		02/22/2008	Metals, dissolved	Primary
PZ-050		02/19/2008	8015B (EFH)	Primary
PZ-050		02/19/2008	8270C	Primary
PZ-050		02/19/2008	Metals, diss (DTSC)	Primary

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Well Identifier	Sample Port Number	Date Sampled	Analysis Method	Sample Type
PZ-050		05/07/2008	8015B (EFH)	Primary
PZ-050		05/07/2008	8270C	Primary
PZ-050		05/07/2008	Metals, diss (DTSC)	Primary
PZ-056		02/21/2008	7199, Dissolved	Primary
PZ-056		02/21/2008	7199, Total	Primary
PZ-056		02/21/2008	8290	Primary
PZ-056		02/21/2008	Metals, dissolved	Primary
PZ-074		02/21/2008	8290	Primary
PZ-103		02/18/2008	300.0-Full	Primary
PZ-103		05/08/2008	300.0-Full	Primary
PZ-103		08/19/2008	300.0-Full	Primary
PZ-103		11/11/2008	300.0-Full	Primary
PZ-105		02/18/2008	Metals, diss (DTSC)	Primary
PZ-105		05/07/2008	Metals, diss (DTSC)	Primary
PZ-105		09/09/2008	Metals, diss (DTSC)	Primary
PZ-105		11/10/2008	8015B (EFH)	Primary
PZ-105		11/10/2008	8260B	Primary
PZ-105		11/10/2008	Metals, diss (DTSC)	Primary
PZ-106		02/19/2008	300.0-Full	Primary
PZ-106		02/19/2008	8270C	Primary
PZ-106		02/19/2008	Metals, diss (DTSC)	Primary
PZ-106		05/08/2008	300.0-Full	Primary
PZ-106		05/08/2008	8270C	Primary
PZ-106		05/08/2008	Metals, diss (DTSC)	Primary
PZ-106		09/10/2008	300.0-Full	Primary
PZ-106		09/10/2008	8270C	Primary
PZ-106		09/10/2008	Metals, diss (DTSC)	Primary
PZ-108		02/20/2008	300.0-Full	Primary
PZ-108		02/20/2008	314.0	Primary
PZ-108		02/20/2008	8315M-Hydrazines	Primary
PZ-108		05/13/2008	314.0	Primary
PZ-108		05/13/2008	8315M-Hydrazines	Primary
PZ-108		05/13/2008	300.0-Full	Primary
PZ-108		08/20/2008	300.0-Full	Primary
PZ-108		08/20/2008	314.0	Primary
PZ-108		08/20/2008	8315M-Hydrazines	Primary
PZ-108		11/12/2008	314.0	Primary
PZ-108		11/12/2008	8315M-Hydrazines	Primary
PZ-108		11/12/2008	300.0-Full	Primary
PZ-109		02/19/2008	300.0-Full	Primary
PZ-109		02/19/2008	Metals, diss (DTSC)	Primary
PZ-109		05/14/2008	300.0-Full	Primary
PZ-109		05/14/2008	Metals, diss (DTSC)	Primary
PZ-109		09/09/2008	300.0-Full	Primary
PZ-109		09/09/2008	Metals, diss (DTSC)	Primary
PZ-109		11/13/2008	300.0-Full	Primary
PZ-109		11/13/2008	Metals, diss (DTSC)	Primary
PZ-116		05/09/2008	Metals, dissolved	Primary
PZ-117		05/15/2008	Metals, dissolved	Primary

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Well Identifier	Sample Port Number	Date Sampled	Analysis Method	Sample Type
PZ-120		11/13/2008	8260B	Primary
PZ-121		02/20/2008	150.1	Primary
PZ-121		02/20/2008	300.0-Full	Primary
PZ-121		02/20/2008	314.0	Primary
PZ-121		02/20/2008	8015B (EFH)	Primary
PZ-121		02/20/2008	8315M-Hydrazines	Primary
PZ-121		02/20/2008	Metals, diss (DTSC)	Primary
PZ-121		05/13/2008	150.1	Primary
PZ-121		05/13/2008	300.0-Full	Primary
PZ-121		05/13/2008	314.0	Primary
PZ-121		05/13/2008	8015B (EFH)	Primary
PZ-121		05/13/2008	8315M-Hydrazines	Primary
PZ-121		05/13/2008	Metals, diss (DTSC)	Primary
PZ-121		08/20/2008	300.0-Full	Primary
PZ-121		08/20/2008	314.0	Primary
PZ-121		08/20/2008	8315M-Hydrazines	Primary
PZ-121		11/12/2008	300.0-Full	Primary
PZ-121		11/12/2008	314.0	Primary
PZ-121		11/12/2008	8315M-Hydrazines	Primary
PZ-122		08/20/2008	8015B (EFH)	Primary
PZ-122		08/20/2008	8315M-Hydrazines	Primary
PZ-122		08/21/2008	150.1	Primary
PZ-122		08/21/2008	300.0-Full	Primary
PZ-122		08/21/2008	314.0	Primary
PZ-122		08/21/2008	Metals, diss (DTSC)	Primary
PZ-122		11/12/2008	150.1	Primary
PZ-122		11/12/2008	300.0-Full	Primary
PZ-122		11/12/2008	314.0	Primary
PZ-122		11/12/2008	8015B (EFH)	Primary
PZ-122		11/12/2008	8315M-Hydrazines	Primary
PZ-122		11/12/2008	Metals, diss (DTSC)	Primary
Chatsworth Formation Wells				
HAR-07		02/27/2008	314.0	Primary
HAR-07		02/27/2008	COCs	Primary
HAR-07		02/27/2008	Metals, diss (DTSC)	Primary
HAR-07		02/27/2008	Metals, total (DTSC)	Primary
HAR-07		04/23/2008	314.0	Primary
HAR-07		04/23/2008	521-NDMA,NDEA,NDPA	Primary
HAR-07		04/23/2008	AppIX	Primary
HAR-07		04/23/2008	COCs	Primary
HAR-07		04/23/2008	Metals, diss (DTSC)	Primary
HAR-07		08/27/2008	314.0	Primary
HAR-07		08/27/2008	8290	Primary
HAR-07		08/27/2008	8290	Duplicate
HAR-07		08/27/2008	COCs	Primary
HAR-07		08/27/2008	Metals, diss (DTSC)	Primary
HAR-07		12/03/2008	1625M	Split
HAR-07		12/03/2008	314.0	Primary
HAR-07		12/03/2008	COCs	Primary

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Well Identifier	Sample Port Number	Date Sampled	Analysis Method	Sample Type
HAR-08		02/27/2008	314.0	Primary
HAR-08		02/27/2008	314.0	Split
HAR-08		02/27/2008	COCs	Primary
HAR-08		05/14/2008	314.0	Primary
HAR-08		05/14/2008	521-NDMA,NDEA,NDPA	Primary
HAR-08		05/14/2008	521-NDMA,NDEA,NDPA	Split
HAR-08		05/14/2008	8260B	Duplicate
HAR-08		05/14/2008	COCs	Primary
HAR-08		08/27/2008	314.0	Primary
HAR-08		08/27/2008	COCs	Primary
HAR-08		12/03/2008	1625M	Split
HAR-08		12/03/2008	314.0	Primary
HAR-08		12/03/2008	8260B	Duplicate
HAR-08		12/03/2008	8260B	Split
HAR-08		12/03/2008	COCs	Primary
HAR-16		03/05/2008	504.1 (DBCP, EDB)	Primary
HAR-16		03/05/2008	504.1 (DBCP, EDB)	Duplicate
HAR-16		03/05/2008	504.1 (DBCP)	Split
HAR-16		03/05/2008	Metals, diss (DTSC)	Primary
HAR-16		03/05/2008	Metals, total (DTSC)	Primary
HAR-16		04/23/2008	521-NDMA,NDEA,NDPA	Primary
HAR-16		04/23/2008	521-NDMA,NDEA,NDPA	Split
HAR-16		04/23/2008	AppIX	Primary
HAR-16		04/23/2008	Metals, diss (DTSC)	Primary
HAR-16		04/23/2008	Metals, total (DTSC)	Primary
HAR-16		09/04/2008	8290	Primary
HAR-16		09/04/2008	8290	Duplicate
HAR-16		09/04/2008	Metals, diss (DTSC)	Primary
HAR-16		10/28/2008	8260B	Primary
HAR-16		10/28/2008	8260B	Duplicate
HAR-17		04/23/2008	521-NDMA,NDEA,NDPA	Primary
HAR-17		04/23/2008	AppIX	Primary
HAR-17		09/04/2008	8290	Primary
HAR-17		09/04/2008	8290	Duplicate
HAR-17		11/04/2008	8260B	Primary
HAR-18		02/18/2008	314.0	Primary
HAR-18		02/18/2008	8260B	Duplicate
HAR-18		02/18/2008	COCs	Primary
HAR-18		02/18/2008	Metals, diss (DTSC)	Primary
HAR-18		02/18/2008	Metals, total (DTSC)	Primary
HAR-18		05/13/2008	314.0	Primary
HAR-18		05/13/2008	521-NDMA,NDEA,NDPA	Primary
HAR-18		05/13/2008	8260B	Duplicate
HAR-18		05/13/2008	COCs	Primary
HAR-18		05/13/2008	Metals, diss (DTSC)	Primary
HAR-18		08/28/2008	314.0	Primary
HAR-18		08/28/2008	314.0	Duplicate
HAR-18		08/28/2008	COCs	Primary
HAR-18		08/28/2008	Metals, diss (DTSC)	Primary

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Well Identifier	Sample Port Number	Date Sampled	Analysis Method	Sample Type
HAR-18		12/01/2008	314.0	Primary
HAR-18		12/01/2008	8260B	Duplicate
HAR-18		12/01/2008	8260B	Split
HAR-18		12/01/2008	COCs	Primary
HAR-20		03/11/2008	314.0	Primary
HAR-20		03/11/2008	8260B	Split
HAR-20		03/11/2008	COCs	Primary
HAR-20		05/13/2008	314.0	Primary
HAR-20		05/13/2008	521-NDMA,NDEA,NDPA	Primary
HAR-20		05/13/2008	COCs	Primary
HAR-20		08/20/2008	314.0	Primary
HAR-20		08/20/2008	COCs	Primary
HAR-20		11/06/2008	314.0	Primary
HAR-20		11/06/2008	COCs	Primary
HAR-22		02/26/2008	8260B	Primary
HAR-22		08/25/2008	8260B	Primary
HAR-23		03/12/2008	8260B	Primary
HAR-23		08/28/2008	8260B	Primary
HAR-24		02/08/2008	300.0-Bromide	Primary
HAR-24		02/08/2008	314.0	Primary
HAR-24		02/08/2008	314.0	Split
HAR-24		02/08/2008	8260B	Primary
HAR-24		05/01/2008	300.0-Bromide	Primary
HAR-24		05/01/2008	314.0	Primary
HAR-24		08/11/2008	300.0-Bromide	Primary
HAR-24		08/11/2008	314.0	Primary
HAR-24		08/11/2008	314.0	Split
HAR-24		08/11/2008	8260B	Primary
HAR-24		10/29/2008	300.0-Bromide	Primary
HAR-24		10/29/2008	314.0	Primary
HAR-25		02/08/2008	300.0-Bromide	Primary
HAR-25		02/08/2008	314.0	Primary
HAR-25		05/01/2008	300.0-Bromide	Primary
HAR-25		05/01/2008	314.0	Primary
HAR-25		08/11/2008	300.0-Bromide	Primary
HAR-25		08/11/2008	314.0	Primary
HAR-25		08/11/2008	314.0	Split
HAR-25		10/29/2008	300.0-Bromide	Primary
HAR-25		10/29/2008	314.0	Primary
HAR-26		02/08/2008	8260B	Primary
HAR-26		02/08/2008	8310-PAHs	Primary
HAR-26		02/08/2008	8315A-Formaldehyde	Primary
HAR-26		05/19/2008	8310-PAHs	Primary
HAR-26		05/19/2008	8315A-Formaldehyde	Primary
HAR-26		08/20/2008	8260B	Primary
HAR-26		08/20/2008	8310-PAHs	Primary
HAR-26		08/20/2008	8315A-Formaldehyde	Primary
HAR-26		11/04/2008	8310-PAHs	Primary
HAR-26		11/04/2008	8315A-Formaldehyde	Primary

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Well Identifier	Sample Port Number	Date Sampled	Analysis Method	Sample Type
OS-02		02/21/2008	314.0	Primary
OS-02		02/21/2008	8260B	Primary
OS-02		02/21/2008	General Minerals	Primary
OS-02		11/13/2008	300.0-Fluoride	Primary
OS-03		05/15/2008	314.0	Primary
OS-03		05/15/2008	314.0	Split
OS-03		05/15/2008	General Minerals	Primary
OS-04		05/15/2008	314.0	Primary
OS-04		05/15/2008	8260B	Primary
OS-04		05/15/2008	General Minerals	Primary
OS-05		05/15/2008	314.0	Primary
OS-05		05/15/2008	General Minerals	Primary
OS-09		02/21/2008	314.0	Primary
OS-09		02/21/2008	8260B	Primary
OS-09		02/21/2008	Deuterium	Primary
OS-09		02/21/2008	General Minerals	Primary
OS-09		02/21/2008	Oxygen-18	Primary
OS-09		05/15/2008	314.0	Primary
OS-09		05/15/2008	Deuterium	Primary
OS-09		05/15/2008	General Minerals	Primary
OS-09		05/15/2008	Oxygen-18	Primary
OS-09		08/14/2008	314.0	Primary
OS-09		08/14/2008	314.0	Duplicate
OS-09		08/14/2008	8260B	Primary
OS-09		08/14/2008	Deuterium	Primary
OS-09		08/14/2008	General Minerals	Primary
OS-09		08/14/2008	Oxygen-18	Primary
OS-09		12/02/2008	314.0	Primary
OS-09		12/02/2008	314.0	Duplicate
OS-09		12/02/2008	Deuterium	Primary
OS-09		12/02/2008	General Minerals	Primary
OS-09		12/02/2008	Oxygen-18	Primary
OS-10		02/21/2008	314.0	Primary
OS-10		02/21/2008	General Minerals	Primary
OS-16		02/14/2008	314.0	Primary
OS-16		02/14/2008	8260B	Primary
OS-16		02/14/2008	General Minerals	Primary
OS-16		09/08/2008	314.0	Primary
OS-16		09/08/2008	8260B	Primary
OS-17		03/04/2008	314.0	Primary
OS-17		03/04/2008	8260B	Primary
OS-17		03/04/2008	General Minerals	Primary
OS-17		05/20/2008	8260B	Primary
OS-17		05/20/2008	8260B	Duplicate
OS-17		05/20/2008	8260B	Split
OS-17		08/12/2008	314.0	Primary
OS-17		08/12/2008	8260B	Primary
OS-17		08/12/2008	8260B	Duplicate
OS-17		08/12/2008	8260B	Split

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Well Identifier	Sample Port Number	Date Sampled	Analysis Method	Sample Type
OS-25		09/09/2008	300.0-Nitrate-NO3	Primary
OS-25		09/09/2008	314.0	Primary
OS-25		09/09/2008	8260B	Primary
OS-26		02/14/2008	314.0	Primary
OS-26		02/14/2008	8260B	Primary
OS-26		02/14/2008	General Minerals	Primary
OS-26		09/09/2008	8260B	Primary
OS-27		03/12/2008	314.0	Primary
OS-27		03/12/2008	8260B	Primary
OS-27		03/12/2008	8260B	Duplicate
OS-27		03/12/2008	General Minerals	Primary
OS-28		03/04/2008	314.0	Primary
OS-28		03/04/2008	521-NDMA	Primary
OS-28		03/04/2008	8260B	Primary
OS-28		03/04/2008	General Minerals	Primary
RD-01		02/26/2008	314.0	Primary
RD-01		02/26/2008	8260B	Duplicate
RD-01		02/26/2008	COCs	Primary
RD-01		05/05/2008	314.0	Primary
RD-01		05/05/2008	521-NDMA,NDEA,NDPA	Primary
RD-01		05/05/2008	8260B	Duplicate
RD-01		05/05/2008	COCs	Primary
RD-01		08/28/2008	314.0	Primary
RD-01		08/28/2008	COCs	Primary
RD-01		11/18/2008	314.0	Primary
RD-01		11/18/2008	314.0	Duplicate
RD-01		11/18/2008	COCs	Primary
RD-02		02/28/2008	314.0	Primary
RD-02		02/28/2008	COCs	Primary
RD-02		05/08/2008	314.0	Primary
RD-02		05/08/2008	521-NDMA,NDEA,NDPA	Primary
RD-02		05/08/2008	8260B	Duplicate
RD-02		05/08/2008	8260B	Split
RD-02		05/08/2008	COCs	Primary
RD-02		11/05/2008	314.0	Primary
RD-02		11/05/2008	314.0	Duplicate
RD-02		11/05/2008	COCs	Primary
RD-03		08/15/2008	8260B	Primary
RD-04		02/27/2008	314.0	Primary
RD-04		02/27/2008	8260B	Split
RD-04		02/27/2008	COCs	Primary
RD-04		02/27/2008	Metals, diss (DTSC)	Primary
RD-04		02/27/2008	Metals, total (DTSC)	Primary
RD-04		05/08/2008	314.0	Primary
RD-04		05/08/2008	521-NDMA,NDEA,NDPA	Primary
RD-04		05/08/2008	COCs	Primary
RD-04		05/08/2008	Metals, diss (DTSC)	Primary
RD-04		08/20/2008	314.0	Primary
RD-04		08/20/2008	COCs	Primary

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Well Identifier	Sample Port Number	Date Sampled	Analysis Method	Sample Type
RD-04		08/20/2008	Metals, diss (DTSC)	Primary
RD-04		10/29/2008	314.0	Primary
RD-04		10/29/2008	8260B	Duplicate
RD-04		10/29/2008	8260B	Split
RD-04		10/29/2008	COCs	Primary
RD-05A		02/14/2008	8260B	Primary
RD-05A		08/14/2008	8260B	Primary
RD-05B		02/18/2008	8260B	Primary
RD-05B		02/18/2008	8260B	Duplicate
RD-05B		02/18/2008	8260B	Split
RD-05B		05/16/2008	8260B	Primary
RD-05B		05/16/2008	8260B	Duplicate
RD-05B		05/16/2008	8260B	Split
RD-05B		08/18/2008	8260B	Primary
RD-05B		08/18/2008	8260B	Duplicate
RD-05B		08/18/2008	8260B	Split
RD-05B		11/05/2008	8260B	Primary
RD-05C		02/14/2008	8260B	Primary
RD-05C		02/14/2008	8260B	Duplicate
RD-05C		02/14/2008	8260B	Split
RD-05C		05/14/2008	8260B	Primary
RD-05C		08/14/2008	8260B	Primary
RD-05C		08/14/2008	8260B	Duplicate
RD-05C		11/05/2008	8260B	Primary
RD-05C		11/05/2008	8260B	Duplicate
RD-05C		11/05/2008	8260B	Split
RD-06		02/26/2008	8260B	Primary
RD-06		05/14/2008	8260B	Primary
RD-06		05/14/2008	8260B	Duplicate
RD-06		05/14/2008	8260B	Split
RD-06		08/28/2008	8260B	Primary
RD-06		08/28/2008	8260B	Duplicate
RD-06		08/28/2008	8260B	Split
RD-06		11/07/2008	8260B	Primary
RD-06		11/07/2008	8260B	Duplicate
RD-07	Z3	02/05/2008	6010B-Total(K)	Primary
RD-07	Z3	02/05/2008	8015B (EFH)	Primary
RD-07	Z3	02/05/2008	8260B	Primary
RD-07	Z3	02/05/2008	8260B	Duplicate
RD-07	Z3	02/05/2008	900.0-dissolved	Primary
RD-07	Z3	02/05/2008	901.1-dissolved	Primary
RD-07	Z3	02/05/2008	903.1-dissolved	Primary
RD-07	Z3	02/05/2008	904.0-dissolved	Primary
RD-07	Z3	02/05/2008	905.0-dissolved	Primary
RD-07	Z3	02/05/2008	906.0-total	Primary
RD-07	Z3	02/05/2008	907.0-dissolved	Primary
RD-07	Z3	02/05/2008	908.0-dissolved	Primary
RD-07	Z3	02/05/2008	Metals, dissolved	Primary
RD-07	Z3	08/06/2008	8260B	Primary

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Well Identifier	Sample Port Number	Date Sampled	Analysis Method	Sample Type
RD-07	Z3	08/06/2008	900.0-dissolved	Primary
RD-07	Z3	08/06/2008	903.1-dissolved	Primary
RD-07	Z3	08/06/2008	904.0-dissolved	Primary
RD-07	Z3	08/06/2008	906.0-total	Primary
RD-07	Z3	08/06/2008	908.0-dissolved	Primary
RD-08		03/03/2008	8310-PAHs	Primary
RD-08		03/03/2008	8315A-Formaldehyde	Primary
RD-08		05/02/2008	8310-PAHs	Primary
RD-08		05/02/2008	8315A-Formaldehyde	Primary
RD-08		09/04/2008	8310-PAHs	Primary
RD-08		09/04/2008	8315A-Formaldehyde	Primary
RD-08		11/18/2008	8310-PAHs	Primary
RD-08		11/18/2008	8315A-Formaldehyde	Primary
RD-09		05/15/2008	314.0	Primary
RD-09		05/15/2008	8260B	Duplicate
RD-09		05/15/2008	COCs	Primary
RD-09		05/15/2008	Metals, diss (DTSC)	Primary
RD-09		05/15/2008	Metals, total (DTSC)	Primary
RD-09		08/20/2008	314.0	Primary
RD-09		08/20/2008	COCs	Primary
RD-09		08/20/2008	Metals, diss (DTSC)	Primary
RD-09		10/28/2008	314.0	Primary
RD-09		10/28/2008	8260B	Duplicate
RD-09		10/28/2008	8260B	Split
RD-09		10/28/2008	COCs	Primary
RD-10		02/28/2008	314.0	Primary
RD-10		02/28/2008	COCs	Primary
RD-10		05/06/2008	314.0	Primary
RD-10		05/06/2008	314.0	Split
RD-10		05/06/2008	8260B	Duplicate
RD-10		05/06/2008	COCs	Primary
RD-10		08/26/2008	314.0	Primary
RD-10		08/26/2008	COCs	Primary
RD-10		10/29/2008	314.0	Primary
RD-10		10/29/2008	314.0	Split
RD-10		10/29/2008	8260B	Duplicate
RD-10		10/29/2008	8260B	Split
RD-10		10/29/2008	COCs	Primary
RD-11		02/12/2008	8310-PAHs	Primary
RD-11		02/12/2008	8315A-Formaldehyde	Primary
RD-11		05/19/2008	8310-PAHs	Primary
RD-11		05/19/2008	8315A-Formaldehyde	Primary
RD-11		09/04/2008	8310-PAHs	Primary
RD-11		09/04/2008	8315A-Formaldehyde	Primary
RD-12		02/08/2008	8310-PAHs	Primary
RD-12		02/08/2008	8315A-Formaldehyde	Primary
RD-12		05/01/2008	8310-PAHs	Primary
RD-12		05/01/2008	8315A-Formaldehyde	Primary
RD-12		09/04/2008	8310-PAHs	Primary

See last three pages of Table B-I for notes and abbreviations.

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Well Identifier	Sample Port Number	Date Sampled	Analysis Method	Sample Type
RD-12		09/04/2008	8315A-Formaldehyde	Primary
RD-12		11/14/2008	8310-PAHs	Primary
RD-12		11/14/2008	8315A-Formaldehyde	Primary
RD-13		02/20/2008	314.0	Primary
RD-13		02/20/2008	521-NDMA	Primary
RD-13		02/20/2008	8260B	Primary
RD-13		02/20/2008	8315A-Formaldehyde	Primary
RD-13		02/20/2008	8315M-Hydrazines	Primary
RD-13		02/20/2008	8330	Primary
RD-13		05/13/2008	314.0	Primary
RD-13		05/13/2008	521-NDMA	Primary
RD-13		05/13/2008	521-NDMA	Duplicate
RD-13		05/13/2008	8260B	Primary
RD-13		05/13/2008	8260B	Duplicate
RD-13		05/13/2008	8315A-Formaldehyde	Primary
RD-13		05/13/2008	8315M-Hydrazines	Primary
RD-13		05/13/2008	8330	Primary
RD-13		09/03/2008	1625M	Primary
RD-13		09/03/2008	1625M	Duplicate
RD-13		09/03/2008	314.0	Primary
RD-13		09/03/2008	8260B	Primary
RD-13		09/03/2008	8315A-Formaldehyde	Primary
RD-13		09/03/2008	8315M-Hydrazines	Primary
RD-13		09/03/2008	8330	Primary
RD-13		11/12/2008	1625M	Primary
RD-13		11/12/2008	1625M	Duplicate
RD-13		11/12/2008	314.0	Primary
RD-13		11/12/2008	8260B	Primary
RD-13		11/12/2008	8260B	Duplicate
RD-13		11/12/2008	8315A-Formaldehyde	Primary
RD-13		11/12/2008	8315M-Hydrazines	Primary
RD-13		11/12/2008	8330	Primary
RD-14		08/21/2008	Metals, dissolved	Primary
RD-14		11/04/2008	Metals, dissolved	Primary
RD-15		02/20/2008	6010B-Total(K)	Primary
RD-15		02/20/2008	8260B	Primary
RD-15		02/20/2008	900.0-dissolved	Primary
RD-15		02/20/2008	901.1-dissolved	Primary
RD-15		02/20/2008	903.1-dissolved	Primary
RD-15		02/20/2008	904.0-dissolved	Primary
RD-15		02/20/2008	905.0-dissolved	Primary
RD-15		02/20/2008	906.0-total	Primary
RD-15		02/20/2008	908.0-dissolved	Primary
RD-15		02/20/2008	Metals, dissolved	Primary
RD-15		08/06/2008	900.0-dissolved	Primary
RD-15		08/06/2008	903.1-dissolved	Primary
RD-15		08/06/2008	904.0-dissolved	Primary
RD-15		11/04/2008	Metals, dissolved	Primary
RD-16		02/27/2008	8260B	Primary

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Well Identifier	Sample Port Number	Date Sampled	Analysis Method	Sample Type
RD-16		05/09/2008	8260B	Primary
RD-16		05/09/2008	8260B	Duplicate
RD-16		05/09/2008	8260B	Split
RD-16		08/25/2008	8260B	Primary
RD-16		11/11/2008	8260B	Primary
RD-16		11/11/2008	8260B	Duplicate
RD-16		11/11/2008	8260B	Split
RD-17		02/22/2008	6010B-Total(K)	Primary
RD-17		02/22/2008	8260B	Primary
RD-17		02/22/2008	900.0-dissolved	Primary
RD-17		02/22/2008	901.1-dissolved	Primary
RD-17		02/22/2008	903.1-dissolved	Primary
RD-17		02/22/2008	904.0-dissolved	Primary
RD-17		02/22/2008	905.0-dissolved	Primary
RD-17		02/22/2008	906.0-total	Primary
RD-17		08/06/2008	900.0-dissolved	Primary
RD-17		08/06/2008	903.1-dissolved	Primary
RD-17		08/06/2008	904.0-dissolved	Primary
RD-18		02/27/2008	8260B	Primary
RD-18		02/27/2008	8290	Primary
RD-18		02/27/2008	Metals, dissolved	Primary
RD-18		02/27/2008	7199, Dissolved	Primary
RD-18		02/27/2008	7199, Total	Primary
RD-18		05/20/2008	7196, Dissolved	Primary
RD-18		05/20/2008	8260B	Primary
RD-18		05/20/2008	8260B	Duplicate
RD-18		05/20/2008	Metals, dissolved	Primary
RD-18		08/21/2008	8260B	Primary
RD-18		11/03/2008	8260B	Primary
RD-18		11/03/2008	Metals, dissolved	Primary
RD-19		02/01/2008	8260B	Primary
RD-19		05/01/2008	8260B	Primary
RD-19		05/01/2008	8260B	Split
RD-19		08/11/2008	8015B (EFH)	Primary
RD-19		08/11/2008	8082	Primary
RD-19		08/11/2008	8260B	Primary
RD-19		08/11/2008	Metals, dissolved	Primary
RD-19		11/21/2008	8260B	Primary
RD-19		11/21/2008	Metals, dissolved	Primary
RD-20		02/07/2008	8290	Primary
RD-20		04/30/2008	8290	Primary
RD-20		08/18/2008	8290	Primary
RD-20		11/11/2008	8290	Primary
RD-21	Z2	02/05/2008	6010B-Total(K)	Primary
RD-21	Z2	02/05/2008	8260B	Primary
RD-21	Z2	02/05/2008	900.0-dissolved	Primary
RD-21	Z2	02/05/2008	901.1-dissolved	Primary
RD-21	Z2	02/05/2008	903.1-dissolved	Primary
RD-21	Z2	02/05/2008	904.0-dissolved	Primary

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Well Identifier	Sample Port Number	Date Sampled	Analysis Method	Sample Type
RD-21	Z2	02/05/2008	905.0-dissolved	Primary
RD-21	Z2	02/05/2008	906.0-total	Primary
RD-21	Z2	02/05/2008	908.0-dissolved	Primary
RD-21	Z2	02/05/2008	Metals, dissolved	Primary
RD-21	Z2	05/01/2008	Metals, dissolved	Primary
RD-21	Z3	08/06/2008	8260B	Primary
RD-21	Z3	08/06/2008	900.0-dissolved	Primary
RD-21	Z3	08/06/2008	903.1-dissolved	Primary
RD-21	Z3	08/06/2008	904.0-dissolved	Primary
RD-21	Z3	08/06/2008	908.0-dissolved	Primary
RD-21	Z3	08/06/2008	Metals, dissolved	Primary
RD-22	Z2	02/05/2008	6010B-Total(K)	Primary
RD-22	Z2	02/05/2008	8260B	Primary
RD-22	Z2	02/05/2008	900.0-dissolved	Primary
RD-22	Z2	02/05/2008	901.1-dissolved	Primary
RD-22	Z2	02/05/2008	9012	Primary
RD-22	Z2	02/05/2008	903.1-dissolved	Primary
RD-22	Z2	02/05/2008	904.0-dissolved	Primary
RD-22	Z2	02/05/2008	905.0-dissolved	Primary
RD-22	Z2	02/05/2008	906.0-total	Primary
RD-22	Z2	02/05/2008	Metals, dissolved	Primary
RD-22	Z2	05/01/2008	Metals, dissolved	Primary
RD-22	Z2	05/01/2008	8260B	Primary
RD-22	Z2	08/06/2008	8260B	Primary
RD-22	Z2	08/06/2008	900.0-dissolved	Primary
RD-22	Z2	08/06/2008	903.1-dissolved	Primary
RD-22	Z2	08/06/2008	904.0-dissolved	Primary
RD-22	Z2	08/06/2008	Metals, dissolved	Primary
RD-22	Z2	11/11/2008	8260B	Primary
RD-23	Z3	02/06/2008	900.0-dissolved	Primary
RD-23	Z3	02/06/2008	6010B-Total(K)	Primary
RD-23	Z3	02/06/2008	8260B	Primary
RD-23	Z3	02/06/2008	901.1-dissolved	Primary
RD-23	Z3	02/06/2008	903.1-dissolved	Primary
RD-23	Z3	02/06/2008	904.0-dissolved	Primary
RD-23	Z3	02/06/2008	905.0-dissolved	Primary
RD-23	Z3	02/06/2008	906.0-total	Primary
RD-23	Z3	02/06/2008	Metals, dissolved	Primary
RD-23	Z3	05/01/2008	Metals, dissolved	Primary
RD-23	Z2	08/07/2008	8260B	Primary
RD-23	Z2	08/07/2008	900.0-dissolved	Primary
RD-23	Z2	08/07/2008	903.1-dissolved	Primary
RD-23	Z2	08/07/2008	904.0-dissolved	Primary
RD-23	Z2	08/07/2008	Metals, dissolved	Primary
RD-24		02/13/2008	6010B-Total(K)	Primary
RD-24		02/13/2008	8260B	Primary
RD-24		02/13/2008	8260B	Duplicate
RD-24		02/13/2008	900.0-dissolved	Primary
RD-24		02/13/2008	901.1-dissolved	Primary

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Well Identifier	Sample Port Number	Date Sampled	Analysis Method	Sample Type
RD-24		02/13/2008	903.1-dissolved	Primary
RD-24		02/13/2008	904.0-dissolved	Primary
RD-24		02/13/2008	905.0-dissolved	Primary
RD-24		02/13/2008	906.0-total	Primary
RD-26		03/03/2008	8260B	Primary
RD-26		09/02/2008	8260B	Primary
RD-27		03/05/2008	6010B-Total(K)	Primary
RD-27		03/05/2008	8260B	Primary
RD-27		03/05/2008	900.0-dissolved	Primary
RD-27		03/05/2008	901.1-dissolved	Primary
RD-27		03/05/2008	903.1-dissolved	Primary
RD-27		03/05/2008	904.0-dissolved	Primary
RD-27		03/05/2008	905.0-dissolved	Primary
RD-27		03/05/2008	906.0-total	Primary
RD-27		09/04/2008	8260B	Primary
RD-27		09/04/2008	900.0-dissolved	Primary
RD-27		09/04/2008	901.1-dissolved	Primary
RD-27		09/04/2008	903.1-dissolved	Primary
RD-27		09/04/2008	904.0-dissolved	Primary
RD-27		09/04/2008	906.0-total	Primary
RD-27		09/04/2008	Metals, dissolved	Primary
RD-27		11/13/2008	Metals, dissolved	Primary
RD-29		02/05/2008	6010B-Total(K)	Primary
RD-29		02/05/2008	8260B	Primary
RD-29		02/05/2008	900.0-dissolved	Primary
RD-29		02/05/2008	901.1-dissolved	Primary
RD-29		02/05/2008	903.1-dissolved	Primary
RD-29		02/05/2008	904.0-dissolved	Primary
RD-29		02/05/2008	905.0-dissolved	Primary
RD-29		02/05/2008	906.0-total	Primary
RD-29		02/05/2008	908.0-dissolved	Primary
RD-29		08/11/2008	900.0-dissolved	Primary
RD-29		08/11/2008	903.1-dissolved	Primary
RD-29		08/11/2008	904.0-dissolved	Primary
RD-29		08/11/2008	908.0-dissolved	Primary
RD-30		02/06/2008	8260B	Primary
RD-30		02/06/2008	6010B-Total(K)	Primary
RD-30		02/06/2008	900.0-dissolved	Primary
RD-30		02/06/2008	901.1-dissolved	Primary
RD-30		02/06/2008	903.1-dissolved	Primary
RD-30		02/06/2008	904.0-dissolved	Primary
RD-30		02/06/2008	905.0-dissolved	Primary
RD-30		02/06/2008	906.0-total	Primary
RD-30		08/13/2008	8015B (EFH)	Primary
RD-30		08/13/2008	8260B	Primary
RD-30		08/13/2008	8270C	Primary
RD-30		08/13/2008	900.0-dissolved	Primary
RD-30		08/13/2008	901.1-dissolved	Primary
RD-30		08/13/2008	903.1-dissolved	Primary

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Well Identifier	Sample Port Number	Date Sampled	Analysis Method	Sample Type
RD-30		08/13/2008	904.0-dissolved	Primary
RD-30		08/13/2008	906.0-total	Primary
RD-30		08/13/2008	Metals, dissolved	Primary
RD-30		11/14/2008	Metals, dissolved	Primary
RD-32		02/19/2008	314.0	Primary
RD-32		02/19/2008	314.0	Split
RD-32		02/19/2008	8015B (GRO)	Primary
RD-32		02/19/2008	8260B	Primary
RD-32		02/19/2008	General Minerals	Primary
RD-32		05/02/2008	8260B	Primary
RD-32		05/02/2008	8260B	Duplicate
RD-32		08/13/2008	8015B (GRO)	Primary
RD-32		08/13/2008	8260B	Primary
RD-32		11/10/2008	8015B (GRO)	Primary
RD-32		11/10/2008	8015B (GRO)	Duplicate
RD-32		11/10/2008	8015B (GRO)	Split
RD-32		11/10/2008	8260B	Primary
RD-32		11/10/2008	8260B	Duplicate
RD-32		11/10/2008	8260B	Split
RD-33A	Z2	02/07/2008	6010B-Total(K)	Primary
RD-33A	Z2	02/07/2008	8260B	Primary
RD-33A	Z2	02/07/2008	900.0-dissolved	Primary
RD-33A	Z2	02/07/2008	901.1-dissolved	Primary
RD-33A	Z2	02/07/2008	9012	Primary
RD-33A	Z2	02/07/2008	903.1-dissolved	Primary
RD-33A	Z2	02/07/2008	904.0-dissolved	Primary
RD-33A	Z2	02/07/2008	905.0-dissolved	Primary
RD-33A	Z2	02/07/2008	906.0-total	Primary
RD-33A	Z2	02/07/2008	Metals, dissolved	Primary
RD-33A	Z6	05/20/2008	Metals, dissolved	Primary
RD-33A	Z2	08/08/2008	8260B	Primary
RD-33A	Z2	08/08/2008	900.0-dissolved	Primary
RD-33A	Z2	08/08/2008	903.1-dissolved	Primary
RD-33A	Z2	08/08/2008	904.0-dissolved	Primary
RD-33A	Z2	08/08/2008	Metals, dissolved	Primary
RD-33B		02/13/2008	6010B-Total(K)	Primary
RD-33B		02/13/2008	8260B	Primary
RD-33B		02/13/2008	900.0-dissolved	Primary
RD-33B		02/13/2008	901.1-dissolved	Primary
RD-33B		02/13/2008	9012	Primary
RD-33B		02/13/2008	903.1-dissolved	Primary
RD-33B		02/13/2008	904.0-dissolved	Primary
RD-33B		02/13/2008	905.0-dissolved	Primary
RD-33B		02/13/2008	906.0-total	Primary
RD-33B		02/13/2008	Metals, dissolved	Primary
RD-33B		05/16/2008	8260B	Primary
RD-33B		05/16/2008	8260B	Duplicate
RD-33B		05/16/2008	Metals, dissolved	Primary
RD-33B		08/07/2008	8260B	Primary

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Well Identifier	Sample Port Number	Date Sampled	Analysis Method	Sample Type
RD-33B		08/07/2008	900.0-dissolved	Primary
RD-33B		08/07/2008	903.1-dissolved	Primary
RD-33B		08/07/2008	904.0-dissolved	Primary
RD-33B		08/07/2008	906.0-total	Primary
RD-33B		08/07/2008	Metals, dissolved	Primary
RD-33B		11/10/2008	8260B	Primary
RD-33B		11/10/2008	Metals, dissolved	Primary
RD-33C		02/12/2008	6010B-Total(K)	Primary
RD-33C		02/12/2008	8260B	Primary
RD-33C		02/12/2008	900.0-dissolved	Primary
RD-33C		02/12/2008	901.1-dissolved	Primary
RD-33C		02/12/2008	9012	Primary
RD-33C		02/12/2008	903.1-dissolved	Primary
RD-33C		02/12/2008	904.0-dissolved	Primary
RD-33C		02/12/2008	905.0-dissolved	Primary
RD-33C		02/12/2008	906.0-total	Primary
RD-33C		02/12/2008	Metals, dissolved	Primary
RD-33C		05/15/2008	8260B	Primary
RD-33C		08/07/2008	8260B	Primary
RD-33C		08/07/2008	900.0-dissolved	Primary
RD-33C		08/07/2008	903.1-dissolved	Primary
RD-33C		08/07/2008	904.0-dissolved	Primary
RD-33C		08/07/2008	906.0-total	Primary
RD-33C		11/06/2008	8260B	Primary
RD-33C		11/06/2008	8260B	Duplicate
RD-34A		02/06/2008	6010B-Total(K)	Primary
RD-34A		02/06/2008	8260B	Primary
RD-34A		02/06/2008	900.0-dissolved	Primary
RD-34A		02/06/2008	901.1-dissolved	Primary
RD-34A		02/06/2008	9012	Primary
RD-34A		02/06/2008	903.1-dissolved	Primary
RD-34A		02/06/2008	904.0-dissolved	Primary
RD-34A		02/06/2008	905.0-dissolved	Primary
RD-34A		02/06/2008	906.0-total	Primary
RD-34A		02/06/2008	907.0-dissolved	Primary
RD-34A		02/06/2008	908.0-dissolved	Primary
RD-34A		02/06/2008	Metals, diss (DTSC)	Primary
RD-34A		02/06/2008	Metals, total (DTSC)	Primary
RD-34A		05/16/2008	Metals, diss (DTSC)	Primary
RD-34A		08/07/2008	8260B	Primary
RD-34A		08/07/2008	900.0-dissolved	Primary
RD-34A		08/07/2008	903.1-dissolved	Primary
RD-34A		08/07/2008	904.0-dissolved	Primary
RD-34A		08/07/2008	906.0-total	Primary
RD-34A		08/07/2008	908.0-dissolved	Primary
RD-34A		08/07/2008	Metals, diss (DTSC)	Primary
RD-34B		02/06/2008	6010B-Total(K)	Primary
RD-34B		02/06/2008	8260B	Primary
RD-34B		02/06/2008	900.0-dissolved	Primary

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Well Identifier	Sample Port Number	Date Sampled	Analysis Method	Sample Type
RD-34B		02/06/2008	901.1-dissolved	Primary
RD-34B		02/06/2008	9012	Primary
RD-34B		02/06/2008	903.1-dissolved	Primary
RD-34B		02/06/2008	904.0-dissolved	Primary
RD-34B		02/06/2008	905.0-dissolved	Primary
RD-34B		02/06/2008	906.0-total	Primary
RD-34B		02/06/2008	908.0-dissolved	Primary
RD-34B		02/06/2008	Metals, dissolved	Primary
RD-34B		08/07/2008	8260B	Primary
RD-34B		08/07/2008	900.0-dissolved	Primary
RD-34B		08/07/2008	903.1-dissolved	Primary
RD-34B		08/07/2008	904.0-dissolved	Primary
RD-34B		08/07/2008	906.0-total	Primary
RD-34C		02/12/2008	6010B-Total(K)	Primary
RD-34C		02/12/2008	8260B	Primary
RD-34C		02/12/2008	900.0-dissolved	Primary
RD-34C		02/12/2008	901.1-dissolved	Primary
RD-34C		02/12/2008	9012	Primary
RD-34C		02/12/2008	903.1-dissolved	Primary
RD-34C		02/12/2008	904.0-dissolved	Primary
RD-34C		02/12/2008	905.0-dissolved	Primary
RD-34C		02/12/2008	906.0-total	Primary
RD-34C		02/12/2008	Metals, dissolved	Primary
RD-34C		08/07/2008	8260B	Primary
RD-34C		08/07/2008	900.0-dissolved	Primary
RD-34C		08/07/2008	903.1-dissolved	Primary
RD-34C		08/07/2008	904.0-dissolved	Primary
RD-34C		08/07/2008	906.0-total	Primary
RD-36B		02/19/2008	314.0	Primary
RD-36B		02/19/2008	8015B (GRO)	Primary
RD-36B		02/19/2008	8260B	Primary
RD-36B		02/19/2008	General Minerals	Primary
RD-36B		08/14/2008	8015B (GRO)	Primary
RD-36B		08/14/2008	8260B	Primary
RD-36B		08/14/2008	8260B	Duplicate
RD-36C		02/20/2008	314.0	Primary
RD-36C		02/20/2008	8015B (GRO)	Primary
RD-36C		02/20/2008	8260B	Primary
RD-36C		02/20/2008	8260B	Duplicate
RD-36C		02/20/2008	General Minerals	Primary
RD-36C		08/15/2008	8015B (GRO)	Primary
RD-36C		08/15/2008	8260B	Primary
RD-36D		02/19/2008	314.0	Primary
RD-36D		02/19/2008	8015B (GRO)	Primary
RD-36D		02/19/2008	8260B	Primary
RD-36D		02/19/2008	8260B	Duplicate
RD-36D		02/19/2008	General Minerals	Primary
RD-36D		05/15/2008	8260B	Primary
RD-36D		05/15/2008	8260B	Split

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Well Identifier	Sample Port Number	Date Sampled	Analysis Method	Sample Type
RD-36D		08/15/2008	8015B (GRO)	Primary
RD-36D		08/15/2008	8260B	Primary
RD-36D		08/15/2008	8260B	Duplicate
RD-36D		08/15/2008	8260B	Split
RD-37		09/09/2008	314.0	Primary
RD-37		09/09/2008	314.0	Duplicate
RD-37		09/09/2008	8015B (GRO)	Primary
RD-37		09/09/2008	8260B	Primary
RD-37		09/09/2008	8260B	Duplicate
RD-37		09/09/2008	8260B	Split
RD-37		09/09/2008	General Minerals	Primary
RD-37		11/05/2008	8260B	Primary
RD-38A		05/20/2008	General Minerals	Primary
RD-38A		05/20/2008	314.0	Primary
RD-38A		05/20/2008	8015B (GRO)	Primary
RD-38A		05/20/2008	8260B	Primary
RD-38A		05/20/2008	8260B	Duplicate
RD-38B		05/20/2008	314.0	Primary
RD-38B		05/20/2008	8015B (GRO)	Primary
RD-38B		05/20/2008	8260B	Primary
RD-38B		05/20/2008	8260B	Split
RD-38B		05/20/2008	General Minerals	Primary
RD-38B		09/05/2008	8015B (GRO)	Primary
RD-38B		09/05/2008	8260B	Primary
RD-39B		03/06/2008	314.0	Primary
RD-39B		03/06/2008	8260B	Primary
RD-39B		03/06/2008	General Minerals	Primary
RD-39B		05/20/2008	8260B	Primary
RD-39B		09/05/2008	8260B	Primary
RD-39B		11/13/2008	8260B	Primary
RD-41A		03/11/2008	314.0	Primary
RD-41A		03/11/2008	COCs	Primary
RD-41A		05/14/2008	314.0	Primary
RD-41A		05/14/2008	COCs	Primary
RD-41A		08/28/2008	314.0	Primary
RD-41A		08/28/2008	COCs	Primary
RD-41A		12/01/2008	8260B	Primary
RD-41A		12/01/2008	8260SIM	Primary
RD-41B		03/11/2008	314.0	Primary
RD-41B		03/11/2008	COCs	Primary
RD-41B		05/14/2008	314.0	Primary
RD-41B		05/14/2008	COCs	Primary
RD-41B		08/28/2008	314.0	Primary
RD-41B		08/28/2008	COCs	Primary
RD-41B		12/01/2008	314.0	Primary
RD-41B		12/01/2008	COCs	Primary
RD-43A		02/14/2008	314.0	Primary
RD-43A		02/14/2008	8260B	Primary
RD-43A		02/14/2008	8260B	Duplicate

See last three pages of Table B-I for notes and abbreviations.

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Well Identifier	Sample Port Number	Date Sampled	Analysis Method	Sample Type
RD-43A		02/14/2008	8260B	Split
RD-43A		02/14/2008	General Minerals	Primary
RD-43A		05/16/2008	8260B	Primary
RD-43A		08/13/2008	8260B	Primary
RD-43B		02/14/2008	314.0	Primary
RD-43B		02/14/2008	314.0	Split
RD-43B		02/14/2008	8260B	Primary
RD-43B		02/14/2008	General Minerals	Primary
RD-43B		05/12/2008	8260B	Primary
RD-43B		08/13/2008	8260B	Primary
RD-43B		08/13/2008	8260B	Duplicate
RD-43B		08/13/2008	8260B	Split
RD-43B		11/06/2008	8260B	Primary
RD-43C		02/15/2008	314.0	Primary
RD-43C		02/15/2008	8260B	Primary
RD-43C		02/15/2008	8260B	Duplicate
RD-43C		02/15/2008	8260B	Split
RD-43C		02/15/2008	General Minerals	Primary
RD-43C		05/12/2008	8260B	Primary
RD-43C		05/12/2008	8260B	Duplicate
RD-43C		09/08/2008	8260B	Primary
RD-43C		11/06/2008	8260B	Primary
RD-43C		11/06/2008	8260B	Duplicate
RD-43C		11/06/2008	8260B	Split
RD-44		03/03/2008	314.0	Primary
RD-44		03/03/2008	COCs	Primary
RD-44		05/07/2008	314.0	Primary
RD-44		05/07/2008	521-NDMA	Duplicate
RD-44		05/07/2008	521-NDMA	Split
RD-44		05/07/2008	COCs	Primary
RD-44		10/30/2008	1625M	Duplicate
RD-44		10/30/2008	1625M	Split
RD-44		10/30/2008	314.0	Primary
RD-44		10/30/2008	COCs	Primary
RD-45B		02/18/2008	314.0	Primary
RD-45B		02/18/2008	8260B	Primary
RD-45B		02/18/2008	8260B	Split
RD-45B		02/18/2008	General Minerals	Primary
RD-45B		08/12/2008	8260B	Primary
RD-45C		02/19/2008	314.0	Primary
RD-45C		02/19/2008	8260B	Primary
RD-45C		02/19/2008	8260B	Duplicate
RD-45C		02/19/2008	General Minerals	Primary
RD-45C		08/12/2008	8260B	Primary
RD-46A		03/12/2008	8260B	Primary
RD-46A		03/12/2008	Metals, diss (DTSC)	Primary
RD-46A		03/12/2008	Metals, total (DTSC)	Primary
RD-46A		05/14/2008	Metals, diss (DTSC)	Primary
RD-46A		09/03/2008	8260B	Primary

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Well Identifier	Sample Port Number	Date Sampled	Analysis Method	Sample Type
RD-46A		09/03/2008	Metals, diss (DTSC)	Primary
RD-47		02/15/2008	314.0	Primary
RD-47		02/15/2008	8260B	Primary
RD-47		08/18/2008	8260B	Primary
RD-48B		03/03/2008	8260B	Primary
RD-48B		05/16/2008	8260B	Primary
RD-48B		08/13/2008	8260B	Primary
RD-48B		08/13/2008	8260B	Split
RD-48C		02/26/2008	8260B	Primary
RD-48C		02/26/2008	8260B	Duplicate
RD-48C		02/26/2008	8260B	Split
RD-48C		05/13/2008	8260B	Primary
RD-48C		09/03/2008	8260B	Primary
RD-48C		11/05/2008	8260B	Primary
RD-48C		11/05/2008	8260B	Duplicate
RD-49A		03/11/2008	Metals, diss (DTSC)	Primary
RD-49A		03/11/2008	Metals, total (DTSC)	Primary
RD-49A		03/11/2008	314.0	Primary
RD-49A		03/11/2008	314.0	Split
RD-49A		03/11/2008	COCs	Primary
RD-49A		05/14/2008	314.0	Primary
RD-49A		05/14/2008	COCs	Primary
RD-49A		05/14/2008	Metals, diss (DTSC)	Primary
RD-49A		05/14/2008	Metals, total (DTSC)	Primary
RD-49A		09/02/2008	314.0	Primary
RD-49A		09/02/2008	COCs	Primary
RD-49A		12/02/2008	1625M	Primary
RD-49A		12/02/2008	300.0-Fluoride	Primary
RD-49A		12/02/2008	300.0-Nitrate-NO3	Primary
RD-49A		12/02/2008	350.3-Ammonia-N	Primary
RD-49A		12/02/2008	8260B	Primary
RD-49A		12/02/2008	8260SIM	Primary
RD-49B		02/27/2008	314.0	Primary
RD-49B		02/27/2008	8260B	Duplicate
RD-49B		02/27/2008	COCs	Primary
RD-49B		05/07/2008	314.0	Primary
RD-49B		05/07/2008	521-NDMA,NDEA,NDPA	Primary
RD-49B		05/07/2008	COCs	Primary
RD-49B		08/27/2008	314.0	Primary
RD-49B		08/27/2008	COCs	Primary
RD-49C		02/28/2008	314.0	Primary
RD-49C		02/28/2008	COCs	Primary
RD-49C		08/19/2008	314.0	Primary
RD-49C		08/19/2008	COCs	Primary
RD-49C		11/10/2008	1625M	Primary
RD-49C		11/10/2008	314.0	Primary
RD-49C		11/10/2008	314.0	Split
RD-49C		11/10/2008	COCs	Primary
RD-50	Z2	02/05/2008	8260B	Primary

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Well Identifier	Sample Port Number	Date Sampled	Analysis Method	Sample Type
RD-50	Z2	02/05/2008	Metals, dissolved	Primary
RD-50	Z2	05/01/2008	Metals, dissolved	Primary
RD-50	Z2	08/06/2008	8260B	Primary
RD-51B		02/21/2008	314.0	Primary
RD-51B		02/21/2008	COCs	Primary
RD-51B		02/21/2008	General Minerals	Primary
RD-51B		05/06/2008	314.0	Primary
RD-51B		05/06/2008	COCs	Primary
RD-51B		08/19/2008	314.0	Primary
RD-51B		08/19/2008	COCs	Primary
RD-51B		11/03/2008	314.0	Primary
RD-51B		11/03/2008	COCs	Primary
RD-51C		05/07/2008	314.0	Primary
RD-51C		05/07/2008	314.0	Split
RD-51C		05/07/2008	8260B	Duplicate
RD-51C		05/07/2008	8260B	Split
RD-51C		05/07/2008	COCs	Primary
RD-51C		05/07/2008	General Minerals	Primary
RD-51C		08/26/2008	314.0	Primary
RD-51C		08/26/2008	8260B	Duplicate
RD-51C		08/26/2008	8260B	Split
RD-51C		08/26/2008	COCs	Primary
RD-51C		11/03/2008	1625M	Duplicate
RD-51C		11/03/2008	1625M	Split
RD-51C		11/03/2008	314.0	Primary
RD-51C		11/03/2008	COCs	Primary
RD-52B		02/20/2008	314.0	Primary
RD-52B		02/20/2008	314.0	Split
RD-52B		02/20/2008	8260B	Primary
RD-52B		02/20/2008	General Minerals	Primary
RD-52B		08/12/2008	8260B	Primary
RD-52C		02/20/2008	314.0	Primary
RD-52C		02/20/2008	8260B	Primary
RD-52C		02/20/2008	8260B	Duplicate
RD-52C		02/20/2008	8260B	Split
RD-52C		02/20/2008	General Minerals	Primary
RD-52C		05/13/2008	8260B	Primary
RD-53		02/22/2008	8015B (GRO)	Primary
RD-53		02/22/2008	8260B	Primary
RD-53		08/27/2008	8015B (GRO)	Primary
RD-53		08/27/2008	8260B	Primary
RD-54A	Z2	02/06/2008	6010B-Total(K)	Primary
RD-54A	Z2	02/06/2008	8260B	Primary
RD-54A	Z2	02/06/2008	8260B	Duplicate
RD-54A	Z2	02/06/2008	900.0-dissolved	Primary
RD-54A	Z2	02/06/2008	901.1-dissolved	Primary
RD-54A	Z2	02/06/2008	903.1-dissolved	Primary
RD-54A	Z2	02/06/2008	904.0-dissolved	Primary
RD-54A	Z2	02/06/2008	905.0-dissolved	Primary

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Well Identifier	Sample Port Number	Date Sampled	Analysis Method	Sample Type
RD-54A	Z2	02/06/2008	906.0-total	Primary
RD-54A	Z2	02/06/2008	907.0-dissolved	Primary
RD-54A	Z2	02/06/2008	908.0-dissolved	Primary
RD-54A	Z2	02/06/2008	Metals, dissolved	Primary
RD-54A	Z2	05/01/2008	Metals, dissolved	Primary
RD-54A	Z2	08/07/2008	8260B	Primary
RD-54A	Z2	08/07/2008	8260B	Duplicate
RD-54A	Z2	08/07/2008	900.0-dissolved	Primary
RD-54A	Z2	08/07/2008	903.1-dissolved	Primary
RD-54A	Z2	08/07/2008	904.0-dissolved	Primary
RD-54A	Z2	08/07/2008	906.0-total	Primary
RD-54A	Z2	08/07/2008	Metals, dissolved	Primary
RD-54B		02/14/2008	6010B-Total(K)	Primary
RD-54B		02/14/2008	8260B	Primary
RD-54B		02/14/2008	8260B	Duplicate
RD-54B		02/14/2008	900.0-dissolved	Primary
RD-54B		02/14/2008	901.1-dissolved	Primary
RD-54B		02/14/2008	903.1-dissolved	Primary
RD-54B		02/14/2008	904.0-dissolved	Primary
RD-54B		02/14/2008	905.0-dissolved	Primary
RD-54B		02/14/2008	906.0-total	Primary
RD-54B		02/14/2008	Metals, dissolved	Primary
RD-54B		11/07/2008	8260B	Primary
RD-54B		11/07/2008	900.0-dissolved	Primary
RD-54B		11/07/2008	900.0-total	Primary
RD-54B		11/07/2008	901.1-dissolved	Primary
RD-54B		11/07/2008	901.1-total	Primary
RD-54B		11/07/2008	905.0-dissolved	Primary
RD-54B		11/07/2008	905.0-total	Primary
RD-54B		11/07/2008	906.0-total	Primary
RD-54B		11/07/2008	Metals, dissolved	Primary
RD-54C		02/14/2008	6010B-Total(K)	Primary
RD-54C		02/14/2008	8260B	Primary
RD-54C		02/14/2008	900.0-dissolved	Primary
RD-54C		02/14/2008	901.1-dissolved	Primary
RD-54C		02/14/2008	903.1-dissolved	Primary
RD-54C		02/14/2008	904.0-dissolved	Primary
RD-54C		02/14/2008	905.0-dissolved	Primary
RD-54C		02/14/2008	906.0-total	Primary
RD-54C		02/14/2008	Metals, dissolved	Primary
RD-54C		05/16/2008	Metals, dissolved	Primary
RD-54C		08/07/2008	8260B	Primary
RD-54C		08/07/2008	900.0-dissolved	Primary
RD-54C		08/07/2008	903.1-dissolved	Primary
RD-54C		08/07/2008	904.0-dissolved	Primary
RD-54C		08/07/2008	906.0-total	Primary
RD-54C		08/07/2008	Metals, dissolved	Primary
RD-55A		02/25/2008	314.0	Primary
RD-55A		02/25/2008	COCs	Primary

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Well Identifier	Sample Port Number	Date Sampled	Analysis Method	Sample Type
RD-55A		02/25/2008	Metals, diss (DTSC)	Primary
RD-55A		02/25/2008	Metals, total (DTSC)	Primary
RD-55A		05/06/2008	314.0	Primary
RD-55A		05/06/2008	314.0	Split
RD-55A		05/06/2008	8260B	Duplicate
RD-55A		05/06/2008	COCs	Primary
RD-55A		05/06/2008	Metals, diss (DTSC)	Primary
RD-55A		08/26/2008	314.0	Primary
RD-55A		08/26/2008	COCs	Primary
RD-55A		08/26/2008	Metals, diss (DTSC)	Primary
RD-55A		11/20/2008	314.0	Primary
RD-55A		11/20/2008	COCs	Primary
RD-55B		02/25/2008	314.0	Primary
RD-55B		02/25/2008	COCs	Primary
RD-55B		05/13/2008	314.0	Primary
RD-55B		05/13/2008	COCs	Primary
RD-55B		08/27/2008	314.0	Primary
RD-55B		08/27/2008	8260B	Duplicate
RD-55B		08/27/2008	COCs	Primary
RD-55B		11/20/2008	314.0	Primary
RD-55B		11/20/2008	8260B	Duplicate
RD-55B		11/20/2008	8260B	Split
RD-55B		11/20/2008	COCs	Primary
RD-56B		02/21/2008	8260B	Primary
RD-56B		05/08/2008	8260B	Primary
RD-56B		08/25/2008	8260B	Primary
RD-56B		11/11/2008	8260B	Primary
RD-57	Z8	02/07/2008	6010B-Total(K)	Primary
RD-57	Z8	02/07/2008	8260B	Primary
RD-57	Z8	02/07/2008	901.1-dissolved	Primary
RD-57	Z8	02/07/2008	905.0-dissolved	Primary
RD-57	Z8	02/07/2008	906.0-total	Primary
RD-57	Z8	02/07/2008	Metals, dissolved	Primary
RD-57	Z6	05/20/2008	8260B	Primary
RD-57	Z6	05/20/2008	Metals, dissolved	Primary
RD-57	Z5	08/08/2008	8260B	Primary
RD-57	Z5	08/08/2008	900.0-dissolved	Primary
RD-57	Z5	08/08/2008	903.1-dissolved	Primary
RD-57	Z5	08/08/2008	906.0-total	Primary
RD-57	Z5	08/08/2008	Metals, dissolved	Primary
RD-57	Z7	11/11/2008	8260B	Primary
RD-57	Z7	11/11/2008	Metals, dissolved	Primary
RD-58A		02/18/2008	314.0	Primary
RD-58A		02/18/2008	8260B	Split
RD-58A		02/18/2008	COCs	Primary
RD-58A		05/19/2008	314.0	Primary
RD-58A		05/19/2008	521-NDMA	Duplicate
RD-58A		05/19/2008	COCs	Primary
RD-58A		09/02/2008	314.0	Primary

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Well Identifier	Sample Port Number	Date Sampled	Analysis Method	Sample Type
RD-58A		09/02/2008	8260B	Duplicate
RD-58A		09/02/2008	COCs	Primary
RD-58A		11/06/2008	314.0	Primary
RD-58A		11/06/2008	COCs	Primary
RD-58B		03/03/2008	314.0	Primary
RD-58B		03/03/2008	COCs	Primary
RD-58B		05/06/2008	314.0	Primary
RD-58B		05/06/2008	314.0	Split
RD-58B		05/06/2008	COCs	Primary
RD-58B		08/21/2008	314.0	Primary
RD-58B		08/21/2008	COCs	Primary
RD-58B		10/30/2008	314.0	Primary
RD-58B		10/30/2008	COCs	Primary
RD-58C		02/20/2008	8260B	Primary
RD-58C		02/20/2008	8260B	Duplicate
RD-58C		08/15/2008	8260B	Primary
RD-59A		05/20/2008	314.0	Primary
RD-59A		05/20/2008	6010B-Total(K)	Primary
RD-59A		05/20/2008	8260B	Primary
RD-59A		05/20/2008	900.0-dissolved	Primary
RD-59A		05/20/2008	901.1-dissolved	Primary
RD-59A		05/20/2008	903.1-dissolved	Primary
RD-59A		05/20/2008	904.0-dissolved	Primary
RD-59A		05/20/2008	905.0-dissolved	Primary
RD-59A		05/20/2008	906.0-total	Primary
RD-59A		05/20/2008	General Minerals	Primary
RD-59A		05/20/2008	Metals, dissolved	Primary
RD-59A		08/14/2008	8260B	Primary
RD-59A		08/14/2008	900.0-dissolved	Primary
RD-59A		08/14/2008	903.1-dissolved	Primary
RD-59A		08/14/2008	904.0-dissolved	Primary
RD-59A		08/14/2008	906.0-total	Primary
RD-59A		08/14/2008	Metals, dissolved	Primary
RD-59A		11/13/2008	8260B	Primary
RD-59B		05/20/2008	314.0	Primary
RD-59B		05/20/2008	6010B-Total(K)	Primary
RD-59B		05/20/2008	8260B	Primary
RD-59B		05/20/2008	900.0-dissolved	Primary
RD-59B		05/20/2008	901.1-dissolved	Primary
RD-59B		05/20/2008	903.1-dissolved	Primary
RD-59B		05/20/2008	904.0-dissolved	Primary
RD-59B		05/20/2008	905.0-dissolved	Primary
RD-59B		05/20/2008	906.0-total	Primary
RD-59B		05/20/2008	General Minerals	Primary
RD-59B		05/20/2008	Metals, dissolved	Primary
RD-59B		08/14/2008	8260B	Primary
RD-59B		08/14/2008	900.0-dissolved	Primary
RD-59B		08/14/2008	903.1-dissolved	Primary
RD-59B		08/14/2008	904.0-dissolved	Primary

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Well Identifier	Sample Port Number	Date Sampled	Analysis Method	Sample Type
RD-59B		08/14/2008	906.0-total	Primary
RD-59B		08/14/2008	Metals, dissolved	Primary
RD-59B		11/13/2008	8260B	Primary
RD-59C		05/20/2008	314.0	Primary
RD-59C		05/20/2008	314.0	Split
RD-59C		05/20/2008	6010B-Total(K)	Primary
RD-59C		05/20/2008	8260B	Primary
RD-59C		05/20/2008	8260B	Duplicate
RD-59C		05/20/2008	900.0-dissolved	Primary
RD-59C		05/20/2008	901.1-dissolved	Primary
RD-59C		05/20/2008	903.1-dissolved	Primary
RD-59C		05/20/2008	904.0-dissolved	Primary
RD-59C		05/20/2008	905.0-dissolved	Primary
RD-59C		05/20/2008	906.0-total	Primary
RD-59C		05/20/2008	General Minerals	Primary
RD-59C		05/20/2008	Metals, dissolved	Primary
RD-59C		08/14/2008	8260B	Primary
RD-59C		08/14/2008	900.0-dissolved	Primary
RD-59C		08/14/2008	903.1-dissolved	Primary
RD-59C		08/14/2008	904.0-dissolved	Primary
RD-59C		08/14/2008	906.0-total	Primary
RD-59C		08/14/2008	Metals, dissolved	Primary
RD-59C		11/13/2008	8260B	Primary
RD-60		02/18/2008	8015B (GRO)	Primary
RD-60		02/18/2008	8260B	Primary
RD-60		02/18/2008	Metals, diss (DTSC)	Primary
RD-60		02/18/2008	Metals, total (DTSC)	Primary
RD-60		05/01/2008	Metals, diss (DTSC)	Primary
RD-60		08/13/2008	8260B	Primary
RD-60		08/13/2008	Metals, diss (DTSC)	Primary
RD-61		02/18/2008	8260B	Primary
RD-61		05/01/2008	8260B	Primary
RD-61		05/01/2008	8260B	Duplicate
RD-61		05/01/2008	8260B	Split
RD-61		08/21/2008	8260B	Primary
RD-61		08/21/2008	8260B	Duplicate
RD-61		08/21/2008	8260B	Split
RD-61		11/21/2008	8260B	Primary
RD-62		02/18/2008	8260B	Primary
RD-62		02/18/2008	8260B	Split
RD-62		04/30/2008	8260B	Primary
RD-62		08/27/2008	8260B	Primary
RD-62		11/12/2008	8260B	Primary
RD-62		11/12/2008	8260B	Duplicate
RD-62		11/12/2008	8260B	Split
RD-63		02/06/2008	8260B	Primary
RD-63		02/06/2008	901.1-dissolved	Primary
RD-63		02/06/2008	6010B-Total(K)	Primary
RD-63		02/06/2008	8260B	Duplicate

See last three pages of Table B-I for notes and abbreviations.

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QUARTERLY GROUNDWATER MONITORING PROGRAM, 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Sample Port Number	Date Sampled	Analysis Method	Sample Type
RD-63		02/06/2008	900.0-dissolved	Primary
RD-63		02/06/2008	903.1-dissolved	Primary
RD-63		02/06/2008	904.0-dissolved	Primary
RD-63		02/06/2008	905.0-dissolved	Primary
RD-63		02/06/2008	906.0-total	Primary
RD-63		08/12/2008	8260B	Primary
RD-63		08/12/2008	900.0-dissolved	Primary
RD-63		08/12/2008	903.1-dissolved	Primary
RD-63		08/12/2008	904.0-dissolved	Primary
RD-64	Z7	02/06/2008	6010B-Total(K)	Primary
RD-64	Z7	02/06/2008	900.0-dissolved	Primary
RD-64	Z7	02/06/2008	904.0-dissolved	Primary
RD-64	Z7	02/06/2008	8260B	Primary
RD-64	Z7	02/06/2008	8260B	Duplicate
RD-64	Z7	02/06/2008	901.1-dissolved	Primary
RD-64	Z7	02/06/2008	903.1-dissolved	Primary
RD-64	Z7	02/06/2008	905.0-dissolved	Primary
RD-64	Z7	02/06/2008	906.0-total	Primary
RD-64	Z7	02/06/2008	908.0-dissolved	Primary
RD-64	Z7	08/07/2008	900.0-dissolved	Primary
RD-64	Z7	08/07/2008	903.1-dissolved	Primary
RD-64	Z7	08/07/2008	904.0-dissolved	Primary
RD-64	Z7	08/07/2008	908.0-dissolved	Primary
RD-65	Z5	02/06/2008	8260B	Primary
RD-66		03/10/2008	314.0	Primary
RD-66		03/10/2008	8260B	Primary
RD-66		03/10/2008	General Minerals	Primary
RD-66		05/16/2008	8260B	Primary
RD-66		08/13/2008	8260B	Primary
RD-66		11/12/2008	8260B	Primary
RD-67		03/06/2008	521-NDMA	Duplicate
RD-67		03/06/2008	COCs	Primary
RD-67		03/06/2008	General Minerals-Background	Primary
RD-67		05/19/2008	521-NDMA	Duplicate
RD-67		05/19/2008	521-NDMA	Split
RD-67		05/19/2008	COCs	Primary
RD-67		05/19/2008	General Minerals-Background	Primary
RD-67		09/03/2008	1625M	Duplicate
RD-67		09/03/2008	COCs	Primary
RD-67		09/03/2008	General Minerals-Background	Primary
RD-67		11/19/2008	1625M	Duplicate
RD-67		11/19/2008	8260B	Duplicate
RD-67		11/19/2008	8260B	Split
RD-67		11/19/2008	COCs	Primary
RD-67		11/19/2008	General Minerals-Background	Primary
RD-68A		02/21/2008	314.0	Primary
RD-68A		02/21/2008	8260B	Primary
RD-68A		02/21/2008	General Minerals	Primary
RD-68A		05/15/2008	8260B	Primary

See last three pages of Table B-I for notes and abbreviations.

TABLE B-I
SUMMARY OF SAMPLING AND ANALYSES FOR WELLS, PIEZOMETERS, AND SPRINGS
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BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Sample Port Number	Date Sampled	Analysis Method	Sample Type
RD-68A		05/15/2008	8260B	Duplicate
RD-68A		08/14/2008	8260B	Primary
RD-68A		11/13/2008	8260B	Primary
RD-68A		11/13/2008	8260B	Duplicate
RD-68A		11/13/2008	8260B	Split
RD-68B		02/21/2008	314.0	Primary
RD-68B		02/21/2008	8260B	Primary
RD-68B		02/21/2008	8260B	Split
RD-68B		02/21/2008	General Minerals	Primary
RD-68B		05/15/2008	8260B	Primary
RD-68B		08/14/2008	8260B	Primary
RD-68B		08/14/2008	8260B	Duplicate
RD-68B		08/14/2008	8260B	Split
RD-68B		11/13/2008	8260B	Primary
RD-69		03/11/2008	8260B	Primary
RD-69		09/09/2008	8260B	Primary
RD-70		03/10/2008	314.0	Primary
RD-70		03/10/2008	8260B	Primary
RD-70		03/10/2008	8260B	Split
RD-70		03/10/2008	General Minerals	Primary
RD-70		04/30/2008	8260B	Primary
RD-70		08/21/2008	8260B	Primary
RD-70		08/21/2008	8260B	Duplicate
RD-70		08/21/2008	8260B	Split
RD-70		11/14/2008	8260B	Primary
RD-71		03/10/2008	314.0	Primary
RD-71		03/10/2008	8260B	Primary
RD-71		03/10/2008	General Minerals	Primary
RD-71		05/16/2008	8260B	Primary
RD-71		08/13/2008	8260B	Primary
RD-71		11/12/2008	8260B	Primary
RD-73		02/19/2008	300.0-Bromide	Primary
RD-73		02/19/2008	314.0	Primary
RD-73		02/19/2008	8015B (GRO)	Primary
RD-73		02/19/2008	8260B	Primary
RD-73		02/19/2008	Metals, diss (DTSC)	Primary
RD-73		02/19/2008	Metals, total (DTSC)	Primary
RD-73		05/14/2008	300.0-Bromide	Primary
RD-73		05/14/2008	314.0	Primary
RD-73		05/14/2008	Metals, diss (DTSC)	Primary
RD-73		09/05/2008	300.0-Bromide	Primary
RD-73		09/05/2008	314.0	Primary
RD-73		09/05/2008	314.0	Split
RD-73		09/05/2008	Metals, diss (DTSC)	Primary
RD-73		11/04/2008	314.0	Primary
RD-73		11/04/2008	300.0-Bromide	Primary
RD-75		03/12/2008	314.0	Primary
RD-75		03/12/2008	General Minerals	Primary
RD-77		02/19/2008	300.0-Bromide	Primary

See last three pages of Table B-I for notes and abbreviations.

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QUARTERLY GROUNDWATER MONITORING PROGRAM, 2008
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Sample Port Number	Date Sampled	Analysis Method	Sample Type
RD-77		02/19/2008	314.0	Primary
RD-77		02/19/2008	General Minerals	Primary
RD-77		05/14/2008	300.0-Bromide	Primary
RD-77		05/14/2008	314.0	Primary
RD-77		11/21/2008	300.0-Bromide	Primary
RD-77		11/21/2008	314.0	Primary
RD-78		03/12/2008	314.0	Primary
RD-78		03/12/2008	314.0	Split
RD-78		03/12/2008	General Minerals	Primary
RD-80		03/05/2008	314.0	Primary
RD-80		03/05/2008	General Minerals	Primary
RD-81		03/06/2008	314.0	Primary
RD-81		03/06/2008	General Minerals	Primary
RD-82		03/11/2008	314.0	Primary
RD-82		03/11/2008	General Minerals	Primary
RD-83		03/06/2008	314.0	Primary
RD-83		03/06/2008	General Minerals	Primary
RD-84		02/22/2008	314.0	Primary
RD-84		02/22/2008	General Minerals	Primary
RD-85		03/12/2008	Metals, dissolved	Primary
RD-85		05/21/2008	Metals, dissolved	Primary
RD-85		09/04/2008	Metals, dissolved	Primary
RD-85		11/18/2008	Metals, dissolved	Primary
RD-86		03/06/2008	7199, Dissolved	Primary
RD-86		03/06/2008	7199, Total	Primary
RD-86		03/06/2008	8015B (Alcohol)	Primary
RD-86		03/06/2008	8015B (EFH)	Primary
RD-86		03/06/2008	8260B (IPA)	Primary
RD-86		03/06/2008	Metals, diss (DTSC)	Primary
RD-86		03/06/2008	Metals, total (DTSC)	Primary
RD-86		05/05/2008	8082	Primary
RD-86		05/05/2008	Metals, diss (DTSC)	Primary
RD-86		05/05/2008	Metals, total (DTSC)	Primary
RD-86		09/08/2008	Metals, diss (DTSC)	Primary
RD-86		11/21/2008	Metals, dissolved	Primary
RD-92		03/05/2008	Metals, dissolved	Primary
RD-92		11/20/2008	Metals, dissolved	Primary
RD-98		06/26/2008	908.0-dissolved	Primary
RD-98		06/26/2008	314.0	Primary
RD-98		06/26/2008	8015B (EFH)	Primary
RD-98		06/26/2008	8260B	Primary
RD-98		06/26/2008	8270C	Primary
RD-98		06/26/2008	900.0-dissolved	Primary
RD-98		06/26/2008	901.1-dissolved	Primary
RD-98		06/26/2008	905.0-dissolved	Primary
RD-98		06/26/2008	906.0-total	Primary
RD-98		06/26/2008	907.0-dissolved	Primary
RD-98		06/26/2008	General Minerals - New Wells	Primary
RD-98		06/26/2008	Isotopic Plutonium	Primary

See last three pages of Table B-I for notes and abbreviations.

TABLE B-I
SUMMARY OF SAMPLING AND ANALYSES FOR WELLS, PIEZOMETERS, AND SPRINGS
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VENTURA COUNTY, CALIFORNIA

Well Identifier	Sample Port Number	Date Sampled	Analysis Method	Sample Type
RD-98		06/26/2008	Metals, dissolved*	Primary
RD-98		06/26/2008	Metals, total*	Primary
RD-98		09/11/2008	900.0-dissolved	Primary
RD-98		09/11/2008	901.1-dissolved	Primary
RD-98		09/11/2008	903.1-dissolved	Primary
RD-98		09/11/2008	904.0-dissolved	Primary
RD-98		09/11/2008	905.0-dissolved	Primary
RD-98		09/11/2008	906.0-total	Primary
RD-98		09/11/2008	907.0-dissolved	Primary
RD-98		09/11/2008	908.0-dissolved	Primary
RD-98		09/11/2008	General Minerals - New Wells	Primary
RD-98		09/11/2008	Isotopic Plutonium	Primary
RD-98		09/11/2008	Metals, dissolved*	Primary
RD-98		09/11/2008	Metals, total*	Primary
RD-98		09/11/2008	314.0	Primary
RD-98		09/11/2008	8015B (EFH)	Primary
RD-98		09/11/2008	8260B	Primary
RD-98		09/11/2008	8270C	Primary
RD-98		11/14/2008	8260B-G7-25ml	Primary
RD-98		11/14/2008	900.0-dissolved	Primary
RD-98		11/14/2008	900.0-total	Primary
RD-98		11/14/2008	901.1-dissolved	Primary
RD-98		11/14/2008	901.1-total	Primary
RD-98		11/14/2008	905.0-dissolved	Primary
RD-98		11/14/2008	905.0-total	Primary
RD-98		11/14/2008	906.0-total	Primary
RD-98		11/14/2008	Metals, diss (DTSC)	Primary
WS-04A		02/26/2008	314.0	Primary
WS-04A		02/26/2008	314.0	Split
WS-04A		02/26/2008	8260B	Primary
WS-04A		02/26/2008	General Minerals	Primary
WS-04A		09/03/2008	8260B	Primary
WS-05		02/26/2008	314.0	Primary
WS-05		02/26/2008	314.0	Split
WS-05		02/26/2008	COCs	Primary
WS-05		05/06/2008	314.0	Primary
WS-05		05/06/2008	314.0	Split
WS-05		05/06/2008	COCs	Primary
WS-05		08/21/2008	314.0	Primary
WS-05		08/21/2008	COCs	Primary
WS-05		11/03/2008	314.0	Primary
WS-05		11/03/2008	314.0	Duplicate
WS-05		11/03/2008	314.0	Split
WS-05		11/03/2008	COCs	Primary
WS-06		02/28/2008	314.0	Primary
WS-06		02/28/2008	8260B	Split
WS-06		02/28/2008	COCs	Primary
WS-06		05/07/2008	314.0	Primary
WS-06		05/07/2008	8260B	Duplicate

See last three pages of Table B-I for notes and abbreviations.

TABLE B-I
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BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Sample Port Number	Date Sampled	Analysis Method	Sample Type
WS-06		05/07/2008	COCs	Primary
WS-06		09/09/2008	314.0	Primary
WS-06		09/09/2008	8260B	Duplicate
WS-06		09/09/2008	COCs	Primary
WS-06		10/30/2008	314.0	Primary
WS-06		10/30/2008	COCs	Primary
WS-09		02/26/2008	314.0	Primary
WS-09		02/26/2008	COCs	Primary
WS-09		02/26/2008	Metals, diss (DTSC)	Primary
WS-09		02/26/2008	Metals, total (DTSC)	Primary
WS-09		05/08/2008	314.0	Primary
WS-09		05/08/2008	COCs	Primary
WS-09		05/08/2008	Metals, diss (DTSC)	Primary
WS-09		08/20/2008	314.0	Primary
WS-09		08/20/2008	COCs	Primary
WS-09		08/20/2008	Metals, diss (DTSC)	Primary
WS-09		10/29/2008	314.0	Primary
WS-09		10/29/2008	8260B	Duplicate
WS-09		10/29/2008	8260B	Split
WS-09		10/29/2008	COCs	Primary
WS-09A		02/29/2008	314.0	Primary
WS-09A		02/29/2008	COCs	Primary
WS-09A		02/29/2008	Metals, diss (DTSC)	Primary
WS-09A		02/29/2008	Metals, total (DTSC)	Primary
WS-09A		05/15/2008	314.0	Primary
WS-09A		05/15/2008	8260B	Duplicate
WS-09A		05/15/2008	8260B	Split
WS-09A		05/15/2008	COCs	Primary
WS-09A		05/15/2008	Metals, diss (DTSC)	Primary
WS-09A		05/15/2008	Metals, total (DTSC)	Primary
WS-09A		08/20/2008	314.0	Primary
WS-09A		08/20/2008	314.0	Duplicate
WS-09A		08/20/2008	8260B	Duplicate
WS-09A		08/20/2008	COCs	Primary
WS-09A		08/20/2008	Metals, diss (DTSC)	Primary
WS-09A		10/30/2008	314.0	Primary
WS-09A		10/30/2008	8260B	Duplicate
WS-09A		10/30/2008	COCs	Primary
WS-09B		02/28/2008	314.0	Primary
WS-09B		02/28/2008	General Minerals	Primary
WS-12		02/27/2008	314.0	Primary
WS-12		02/27/2008	General Minerals	Primary
WS-13		02/25/2008	314.0	Primary
WS-13		02/25/2008	General Minerals	Primary
WS-14		02/22/2008	314.0	Primary
WS-14		02/22/2008	General Minerals	Primary

See last three pages of Table B-I for notes and abbreviations.

ANALYTICAL METHODS

150.1	=	EPA method 150.1 for pH.
1625M	=	N-Nitrosodimethylamine, modified EPA method 1625.
300.0	=	EPA method 300.0 for inorganics. Table B-I includes: 300.0-Bromide 300.0-Fluoride 300.0-Full 300.0-Nitrate-NO3
300.0-Full	=	EPA Method 300.0 for bromide, chloride, fluoride, nitrate-NO3, and sulfate. Nitrate-NO3 was not scheduled during the second quarter due to a scheduling oversight.
314.0	=	Perchlorate, EPA method 314.0.
350.3-Ammonia-N	=	EPA method 350.3 for ammonia as nitrogen.
425.1 Surfactants	=	EPA method 425.1 for surfactants.
504.1 (DBCP)	=	EPA method for 1,2-dibromo-3-chloropropane.
504.1 (DBCP, EDB)	=	EPA method 504.1 for 1,2-dibromo-3-chloropropane and 1,2-dibromoethane.
521-NDMA	=	EPA method 521 for n-Nitrosodimethylamine (NDMA).
521-NDMA,NDEA,NDPA	=	EPA method 521 for n-Nitrosodimethylamine (NDMA), n-Nitrosodiethylamine (NDEA), and n-Nitrosodi-n-propylamine (NDPA).
6010B-Total(K)	=	EPA method 6010B for total potassium. Total potassium was acidified in the field.
7196, Dissolved	=	EPA method 7196 for hexavalent chromium. Dissolved hexavalent chromium was filtered and acidified in the field.
7199, Dissolved	=	EPA method 7199 for hexavalent chromium. Dissolved hexavalent chromium was filtered and acidified in the field.
7199, Total	=	EPA method 7199 for hexavalent chromium. Total hexavalent chromium was acidified in the field.
8015B (Alcohol)	=	EPA method 8015B revised for ethanol, ethylene glycol, methanol.
8015B (EFH)	=	EPA method 8015 revised for extractable fuel hydrocarbons.
8015B (GRO)	=	EPA method 8015 revised for gasoline range organics.
8081A	=	EPA method 8081A for pesticides.
8082	=	EPA method 8082 for polychlorinated biphenyls (PCBs).
8260B	=	EPA method 8260B for volatile organic compounds.
8260B-G7-25ml	=	EPA method 8260B for volatile organic compounds and includes the following additional compounds: 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, cumene, n-butylbenzene, and p-cymene.
8260B (IPA)	=	EPA method 8260B for isopropanol.
8260SIM	=	EPA method 8260SIM for 1,4-dioxane.
8270C	=	EPA method 8270C for base/neutral and acid organic compounds.
8290	=	EPA method 8290 for dioxins and furans.
8310-PAHs	=	EPA method 8310 for polynuclear aromatic hydrocarbons (PAHs).
8315A-Formaldehyde	=	EPA method 8315 for formaldehyde.
8315M-Hydrazines	=	EPA method 8315M for hydrazines.
8330	=	EPA method 8330 for nitroaromatics and nitramines.
9012	=	EPA method 9012 for total cyanide.
AppIX	=	Appendix IX, see below.
COCs	=	Constituents of concern (table 3 of post-closure permits plus 1,3-dinitrobenzene). Includes EPA methods 8260B, 8260SIM, 8270C, 1625M or 521, 8315A, 300.0, and 350.3.
Deuterium	=	Mass spectrometry of stable isotope deuterium.
General Minerals	=	General minerals, including dissolved metals: calcium, magnesium, potassium, and sodium; bicarbonate, carbonate, chloride, nitrate, sulfate, total dissolved solids, pH, and specific conductance. Includes EPA methods 6010B, 300.0, 160.1, 150.1, 120.1, and method SM2320B. Dissolved metals were filtered and acidified in the field.
General Minerals - New Wells	=	Includes all general minerals listed above and total (unfiltered) sodium, total by EPA method 6010B. Total metals were acidified in the field.

General Minerals-Background	=	General minerals, including dissolved metals: calcium, iron, magnesium, manganese, potassium, sodium, strontium, and zinc; alkalinity as CaCO3, chloride, fluoride, nitrate, sulfate, total dissolved solids, pH, specific conductance, and turbidity. Includes EPA methods 6010B, 300.0, 160.1, 150.1, 120.1, 180.1, and method SM2320B. Dissolved metals were filtered and acidified in the field.
Metals, dissolved and Metals, total	=	Metals including antimony, arsenic, beryllium, cadmium, chromium, copper, lead, nickel, selenium, silver, and thallium, using EPA method 6020; barium, cobalt, iron, manganese, molybdenum, vanadium, and zinc using EPA method 6010B; and mercury using EPA method 7470A. Barium, cobalt, manganese, molybdenum, vanadium, and zinc were analyzed by EPA method 6020 during the second quarter. Dissolved metals were filtered and acidified in the field. Total metals were acidified in the field.
Metals, diss (DTSC) and Metals, total (DTSC)	=	Includes all metals listed above and additional metals including aluminum, boron, magnesium, strontium, and tin using EPA method 6010B. Dissolved metals ("diss") were filtered and acidified in the field. Total metals were acidified in the field.
Metals-RFI G2, diss	=	Metals including antimony, arsenic, beryllium, cadmium, chromium, copper, lead, nickel, selenium, silver, and thallium, using EPA method 6020; aluminum, barium, cobalt, iron, manganese, molybdenum, vanadium, and zinc using EPA method 6010B; and mercury using EPA method 7470A. Barium, cobalt, manganese, molybdenum, vanadium, and zinc were analyzed by EPA method 6020 during the second quarter. Dissolved metals ("diss") were filtered and acidified in the field.
*	=	Zirconium was additionally analyzed at this well using EPA method 6010B.
Oxygen-18	=	Mass spectrometry of stable isotope oxygen-18.

APPENDIX IX CONSTITUENTS

The laboratory uses the most current methods which may be updated from methods listed in Appendix IX (California Code of Regulations(22 CCR), Title 22, Sections 66264.800 through 66264.801, Appendix IX, Ground-water Monitoring List).

APPENDIX IX analyses include:
EPA method 8260B for volatile organic compounds
EPA method 8260SIM for 1,4-dioxane
EPA method 8270C for base/neutral and acid organic compounds
EPA method 8081A for organochlorine pesticides
EPA method 8082 for polychlorinated biphenyls (PCBs)
EPA method 8141A for organophosphorous pesticides
EPA method 8151A for chlorinated herbicides
EPA method 6010B/6020 for metals (Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, Tl, Sn, V, Zn)
EPA method 504.1 for 1,2-dibromoethane (EDB) and 1,2-dibromo-3-chloropropane (DBCP)
EPA method 7470A for mercury
EPA method 9012 for total cyanide
EPA method 376.2 for sulfide
EPA method 521 for N-nitrosodimethylamine
EPA method 8290 for dioxins and furans
EPA method 8321A for hexachlorophene
SRL 524M-TCP for 1,2,3-trichloropropane

Radiochemical Parameters

900.0	=	EPA method 900.0 for gross alpha and beta radioactivity
901.1	=	EPA method 901.1 for gamma-emitting radionuclides: Cs-134, Cs-137, Co-57, Co-60, Eu-152, Eu-154, Mn-54, K-40, and Na-22 during the first quarter; the gamma-emitting radionuclides sampled during second quarter are the same as the first quarter and additionally include Am-241; and Ag-110m, Al-26, Am-241, Be-7, Ce-139, Ce-144, Cs-134, Cs-137, Cr-51, Co-56, Co-57, Co-58, Co-60, Eu-152, Eu-154, Mn-54, K-40, and Na-22 during the third quarter and in the June RD-98 samples; Ac-228, Ba-133, Co-60, Cs-134, Cs-137, Eu-152, Eu-154, Eu-155, K-40, Mn-54, Na-22, Ra-228, and Sb-125 during the fourth quarter.
903.1	=	EPA method 903.1 for Ra-226
904.0	=	EPA method 904.0 for Ra-228
905.0	=	EPA method 905.0 for Sr-90
906.0	=	EPA method 906.0 for tritium
907.0	=	EPA method 907.0 for isotopic thorium
908.0	=	EPA method 908.0 for isotopic uranium
Isotopic Plutonium	=	Method HASL-300 for Plutonium-238 and Plutonium-240.

Note: An equivalent or superior in-house laboratory procedure is considered acceptable for EPA methodology. Lab used the most current promulgated version of each EPA method.

Dissolved radionuclide samples were filtered using a 0.45 micron filter and preserved in the field.
Total radionuclide samples were preserved in the field, but were not filtered.
Tritium samples were not filtered.

Select radiochemistry analyses were performed per EPA drinking water regulations:
1) if gross alpha activity exceeded 15 pCi/l, then isotopic uranium was analyzed by EPA method 908.0;
2) if gross beta activity exceeded 50 pCi/l, then K-40 and Sr-90 were analyzed by EPA methods 901.1 and 905.0, respectively.

APPENDIX C

Monitor Well and Piezometer Construction Data

APPENDIX C
MONITOR WELL AND PIEZOMETER CONSTRUCTION DATA

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Tables

TABLE C-I
WELL CONSTRUCTION DATA
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Area No.	Effective Borehole Depth (feet)	Borehole		Casing		Sealed Interval (feet)	Perforated Interval (feet)	Measuring Point Elevation (ft MSL)	Date Drilling Completed
			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
Shallow Wells										
SH-01	III	10	16	0 - 10	4	0 - 10	0 - 5	5.5 - 10	1772.84	12/11/84
SH-02	III	10.6	16	0 - 10.6	4	0 - 10.6	0 - 5	6 - 10.6	1762.76	12/11/84
SH-03	III	9.5	16	0 - 9.5	4	0 - 9.5	0 - 4.6	5 - 9.5	1762.53	12/12/84
SH-04	III	17	16	0 - 17	4	0 - 13	0 - 8	9 - 13	1765.08	12/12/84
SH-05	III	10.5	16	0 - 10.5	4	0 - 10.5	0 - 5.6	6 - 10.5	1762.97	12/13/84
SH-06	III	11.5	16	0 - 11.5	4	0 - 11.5	0 - 6.2	7 - 11.5	1776.99	12/17/84
SH-07	III	13.5	16	0 - 13.5	4	0 - 13.5	0 - 8.5	9.5 - 13.5	1775.11	01/16/85
SH-08	III	12	16	0 - 12	4	0 - 11.4	0 - 5.2	5.9 - 11.4	1763.25	01/17/85
SH-09	III	9	16	0 - 9	4	0 - 9	0 - 3.5	4 - 9	1761.19	01/18/85
SH-10	III	8	16	0 - 8	4	0 - 7.5	0 - 2	3 - 7.5	1757.69	01/18/85
SH-11	III	17.5	16	0 - 17.5	4	0 - 17.5	0 - 11	13 - 17.5	1756.00	01/16/85
RS-01	I	24.5	16	0 - 24.5	4	0 - 24.5	0 - 12.5	14.5 - 24.5	1879.68	06/08/85
RS-02	I	26	16	0 - 26	4	0 - 26	0 - 15	16 - 26	1901.08	06/08/85
RS-03	I	21	16	0 - 21	4	0 - 21	0 - 10	11 - 21	1834.22	06/08/85
RS-04	I	30	16	0 - 30	4	0 - 30	0 - 18	20 - 30	1826.56	06/08/85
RS-05	I	20	16	0 - 20	4	0 - 20	0 - 7.5	10 - 20	1783.73	06/07/85
RS-06	I	18	16	0 - 18	4	0 - 18	0 - 7	8 - 18	1757.43	06/07/85
RS-07	I	7.5	16	0 - 7.5	4	0 - 7.5	0 - 1.6	2.5 - 7.5	1732.27	06/07/85
RS-08	II	12.5	16	0 - 12.5	4	0 - 12.5	0 - 5	7 - 12.5	1821.57	06/09/85
RS-09	III	26.2	16	0 - 26.2	4	0 - 26.2	0 - 14.2	16 - 26.2	1735.52	09/11/85
RS-10	II	17	16	0 - 17	4	0 - 17	0 - 6	7.3 - 17	1762.08	06/10/85
RS-11	IV	17.5	16	0 - 17.5	4	0 - 17.5	0 - 9	10 - 17.5	1790.39	06/10/85
RS-12	III	15.3	16	0 - 15.3	4	0 - 15.3	0 - 4	5 - 15.3	1727.48	06/09/85
RS-13	II	22.8	16	0 - 22.8	4	0 - 22.8	0 - 15	17 - 22.8	1645.13	06/11/85
RS-14	III	16	16	0 - 16	4	0 - 16	0 - 5	6 - 16	1734.78	06/09/85
RS-15	III	12	16	0 - 12	4	0 - 12	0 - 4.5	5 - 12	1764.86	06/10/85
RS-16	IV	20.5	16	0 - 20.5	4	0 - 20.5	0 - 14.5	16.5 - 20.5	1811.05	06/11/85
RS-17	III	16	16	0 - 16	4	0 - 16	0 - 4	6.4 - 16	1766.52	06/10/85
RS-18	IV	13	16	0 - 13	4	0 - 13	0 - 6	7.5 - 13	1802.86	06/12/85
RS-19	I	15	16	0 - 15	4	0 - 15	0 - 4.8	4.8 - 15	1812.42	09/12/85

See last page of table for notes and abbreviations.

TABLE C-I
WELL CONSTRUCTION DATA
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Area No.	Effective Borehole Depth (feet)	Borehole		Casing		Sealed Interval (feet)	Perforated Interval (feet)	Measuring Point Elevation (ft MSL)	Date Drilling Completed
			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
RS-20	I	20.5	16	0 - 20.5	4	0 - 20.5	0 - 8.5	10.5 - 20.5	1823.77	09/12/85
RS-21	II	29	16	0 - 29	4	0 - 24.6	0 - 3.5	14.5 - 24.6	1767.36	10/23/85
RS-22	II	31	16	0 - 31	4	0 - 31	0 - 4	21 - 31	1771.23	10/23/85
RS-23	IV	13	12	0 - 13	4	0 - 13	0 - 6.8	8 - 13	1887.25	08/23/88
RS-24	IV	8.5	12	0 - 8.5	4	0 - 8.5	0 - 3	4 - 8.5	1809.24	08/25/88
RS-25	IV	13.5	Trenched	0 - 13.5	4	0 - 13.5	0 - 2	8.5 - 13.5	1862.71	08/25/88
RS-26	Destroyed July 1989 During Soils Removal									
RS-27	IV	9	8	0 - 9	4	0 - 9	0 - 3	5 - 9	1804.78	08/02/88
RS-28	IV	19	8	0 - 19	4	0 - 19	0 - 9	14 - 19	1768.59	08/17/89
RS-29	II	38	9-7/8	0 - 38	4	0 - 37.5	0 - 17	27 - 37.5	1833.09	02/20/93
RS-30	I	23	12	0 - 23	4	0 - 21	0 - 9	10.5 - 21	1909.01	03/20/91
RS-31	I	18	12	0 - 18	4	0 - 17.5	0 - 6	7 - 17.5	1909.03	03/19/91
RS-32	I	18	12	0 - 18	4	0 - 17	0 - 6	6.5 - 17	1908.99	03/19/91
RS-54	IV	38	11-1/4	0 - 7	6-1/4	0 – 7	0 - 7		1846.66	08/09/93
			5-7/8	7 - 38	---	---		Open Hole		
ES-01	I	26	15	0 - 26	6	(v)1.3 - 25.5	0 - 6	15.5 - 25.5	1782.20	10/20/86
ES-02	I	17.5	15	0 - 17.5	6	(v)1.5 - 16.7	0 - 4.8	6.7 - 16.7	1814.60	10/20/86
ES-03	I	27	15	0 - 27	6	(v)1.3 - 27	0 - 9.4	17 - 27	1783.39	10/21/86
ES-04	I	20	15	0 - 20	6	(v)1.4 - 20	0 - 4	5.8 - 20	1817.24	10/21/86
ES-05	I	19	15	0 - 19	6	(v)1.3 - 19	0 - 5.8	9 - 19	1818.13	10/21/86
ES-06	I	25	15	0 - 25	6	0 - 25	0 - 5.6	11.6 - 25	1825.41	11/04/86
ES-07	I	23.2	15	0 - 23.2	6	0 - 23.2	0 - 6.5	8.5 - 23.2	1826.53	11/05/86
ES-08	I	24.1	15	0 - 24.1	6	0.6 - 24.1	0 - 4.7	12.1 - 24.1	1826.60	11/05/86
ES-09	I	24.2	15	0 - 24.2	6	0 - 24.2	0 - 3.4	11.9 - 24.2	1827.80	11/05/86
ES-10	I	20	15	0 - 20	6	0 - 20	0 - 5	9.7 - 20	1829.46	11/05/86
ES-11	I	27	15	0 - 27	6	0 - 27	0 - 4.2	7.2 - 27	1835.07	11/06/86
ES-12	I	22.5	15	0 - 22.5	6	0 - 22.5	0 - 6.9	10.9 - 22.5	1838.19	11/06/86
ES-13	I	30	15	0 - 30	6	(v)1.2 - 23.6	0 - 3.1	6 - 23.6	1782.58	11/06/86
ES-14	III	24.6	15	0 - 24.6	6	0 - 23.5	0 - 9.4	12.9 - 23.5	1728.69	11/10/86
ES-15	III	24	15	0 - 24	6	0 - 24	0 -10.8	13.5 - 24	1730.21	11/10/86
ES-16	III	24.8	15	0 - 24.8	6	0 - 24.8	0 - 4.3	8.1 - 24.8	1737.90	11/10/86

See last page of table for notes and abbreviations.

TABLE C-I
WELL CONSTRUCTION DATA
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Area No.	Effective Borehole Depth (feet)	Borehole		Casing		Sealed Interval (feet)	Perforated Interval (feet)	Measuring Point Elevation (ft MSL)	Date Drilling Completed
			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
ES-17	III	28	15	0 - 28	6	0 - 28	0 - 7.9	10.4 - 28	1739.31	11/11/86
ES-18	II	35	15	0 - 35	6	0 - 26.9	0 - 9.1	12.9 - 26.9	1770.25	11/11/86
ES-19	II	33	15	0 - 33	6	0 - 26.3	0 - 6.3	10.3 - 26.3	1769.44	11/11/86
ES-20	II	35	15	0 - 35	6	0 - 23	0 - 3.5	9.8 - 23	1770.58	11/13/86
ES-21	II	35	12	0 - 35	6	0 - 35	0 - 2.2	15.8 - 35	1769.62	01/26/87
ES-22	II	35.5	12	0 - 35.5	6	0 - 35.5	0 - 5.2	17.5 - 35.5	1770.93	01/27/87
ES-23	III	20	12	0 - 20	6	0 - 20	0 - 2.4	10.6 - 20	1760.73	01/27/87
ES-24	III	30	12	0 - 30	6	0 - 30	0 -11.7	18.3 - 30	1728.67	01/28/87
ES-25	III	35	12	0 - 35	6	0 - 35	0 - 9.2	19.5 - 35	1737.78	01/28/87
ES-26	III	35	12	0 - 35	6	0 - 34.5	0 - 8.7	17.5 - 34.5	1748.01	01/28/87
ES-27	III	35	12	0 - 35	6	0 - 35	0 - 9.5	15.3 - 35	1740.67	01/28/87
ES-28	III	21	12	0 - 21	6	0 - 21	0 - 1.7	8.9 - 21	1759.15	01/28/87
ES-29	III	28	12	0 - 28	6	0 - 28	0 - 8.4	11.6 - 28	1760.47	01/29/87
ES-30	III	25	12	0 - 25	6	0 - 25	0 - 5.5	10.1 - 25	1759.51	01/29/87
ES-31	IV	25	12	0 - 25	6	0 - 25	0 - 9.7	11.6 - 25	1787.01	01/29/87
ES-32	III	25	12	0 - 25	6	0 - 21.5	0 - 4.6	7.5 - 21.5	1740.65	01/29/87
HAR-02	I	30	8	0 - 30	4	(v)1.1 - 30	0 - 6.2	15.4 - 30	1886.38	05/12/87
HAR-03	I	30	8	0 - 30	4	0 - 30	0 - 6.2	14.7 - 30	1875.48	05/13/87
HAR-04	I	29	8	0 - 29	4	0 - 29	0 - 6.4	12.1 - 29	1873.40	05/13/87
HAR-09	II	30.5	8	0 - 30.5	4	0 - 30.5	0 - 5.9	16.1 - 30.5	1820.62	05/16/87
HAR-11	II	31	8	0 - 31	4	0 - 31	0 - 5	11.2 - 31	1827.90	05/16/87
HAR-12	III	30.5	8	0 - 30.5	4	0 - 30.5	0 - 3.5	15.5 - 30.5	1796.73	05/17/87
HAR-13	III	31.6	8	0 - 31.6	4	0 - 31.6	0 - 5.5	17.4 - 31.6	1801.18	05/17/87
HAR-14	III	40	8	0 - 40	4	0 - 40	0 - 5.5	11.8 - 40	1797.02	05/19/87
HAR-15	II	40	8	0 - 40	4	0 - 40	0 - 5	10.2 - 40	1809.69	05/19/87
HAR-27	II	40	8	0 - 40	4	0 - 40	0 - 3	21 - 40	1719.39	06/14/87
HAR-28	II	40	8	0 - 40	4	0 - 40	0 - 6	20 - 40	1720.17	06/14/87
HAR-29	II	40.2	8	0 - 40.2	4	0 - 40.2	0 - 7	20 - 40.2	1724.13	06/14/87
HAR-30	II	35	8	0 - 35	4	0 - 35	0 - 6.5	14 - 35	1806.47	06/15/87
HAR-31	II	40	8	0 - 40	4	0 - 40	0 - 6	22 - 40	1812.45	06/15/87
HAR-32	III	40	8	0 - 40	4	0 - 40	0 - 6	21 - 40	1736.58	06/17/87

See last page of table for notes and abbreviations.

TABLE C-I
WELL CONSTRUCTION DATA
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Area No.	Effective Borehole Depth (feet)	Borehole		Casing		Sealed Interval (feet)	Perforated Interval (feet)	Measuring Point Elevation (ft MSL)	Date Drilling Completed
			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
HAR-33	III	35	8	0 - 35	4	0 - 35	0 - 6	18 - 35	1744.66	06/17/87
HAR-34	III	23	8	0 - 23	4	0 - 23	0 - 3	9 - 23	1751.17	06/17/87
SRE-NS-E	IV	27	10-5/8	0 - 27	4	0 - 27	0 - 14	17 - 27	1851.41	06/09/08
SRE-NS-N	IV	28	10-5/8	0 - 28	4	0 - 28	0 - 15	18 - 28	1852.23	06/06/08
SRE-NS-W	IV	27.5	10-5/8	0 - 27.5	4	0 - 27.5	0 - 14.5	17.5 - 27.5	1852.23	06/11/08
CHATSWORTH FORMATION										
RD-01	I	506	15	0 - 26	10-1/8	0 - 26	0 - 26		1935.89	01/09/86
			8-5/8	26 - 506	---	---		Open Hole		
RD-02	I	400	15	0 - 26	10-1/8	0 - 26	0 - 26		1873.92	01/16/86
			8-5/8	26 - 400	---	---		Open Hole		
RD-03	I	300	15	0 - 27	10-1/8	0 - 27	0 - 27		1743.50	01/10/86
			8-5/8	27 - 300	---	---		Open Hole		
RD-04	II	496	15	0 - 27	10-1/8	0 - 27	0 - 27		1883.85	01/22/86
			8-5/8	27 - 496	---	---		Open Hole		
RD-05A	UL-S	158	12-1/4	0 - 29.5	8-1/4	0 - 29.5	0 - 29.5		1704.66	02/17/93
			6-1/4	29.5 - 158	---	---		Open Hole		
RD-05B	UL-S	310	15	0 - 27	10-1/8	0 - 27	0 - 27		1705.89	05/20/93
			9-7/8	27 - 310	5	0 - 310	0 - 248	257.6 - 310		
RD-05C	UL-S	480	17-1/2	0 - 29	12-1/8	0 - 28	0 - 29		1705.25	06/27/94
			11-7/8	29 - 421	6-1/4	0 - 418	0 - 421			
			6-1/4	421 - 480	---	---		Open Hole		
RD-06	UL-S	260	15	0 - 27	10-1/8	0 - 27	0 - 27		1617.21	01/31/86
			9-7/8	27 - 136	6-1/4	0 - 140		70 - 140		
			8-5/8	136 - 260	---	---		Open Hole		
RD-07	IV	300	15	0 - 25	10-1/8	0 - 25	0 - 25		1812.82	01/08/86
			8-5/8	25 - 300	---	---		Open Hole		
RD-08	III	50	15	0 - 27	10-1/8	0 - 27	0 - 27		1763.38	01/29/86
			8-5/8	27 - 50	---	---		Open Hole		
RD-09	II	200	15	0 - 37	10-1/8	0 - 37	0 - 37		1768.20	01/28/86
			8-5/8	37 - 200	---	---		Open Hole		

See last page of table for notes and abbreviations.

TABLE C-I
WELL CONSTRUCTION DATA
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Area No.	Effective Borehole Depth (feet)	Borehole		Casing		Sealed Interval (feet)	Perforated Interval (feet)	Measuring Point Elevation (ft MSL)	Date Drilling Completed
			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
RD-10	I	400	15	0 - 30	10-1/8	0 - 30	0 - 30		1904.43	05/07/86
			8-3/8	30 - 400	---	---		Open Hole		
RD-11	III	71	15	0 - 30	10-1/8	0 - 30	0 - 30		1762.65	10/23/86
			8-3/8	30 - 71	---	---		Open Hole		
RD-12	III	72	15	0 - 30	10-1/8	0 - 30	0 - 30		1762.62	10/23/86
			8-3/8	30 - 72	---	---		Open Hole		
RD-13	IV	160	12	0 - 30	8-1/4	0 - 30	0 - 30		1840.27	07/25/89
			6-1/2	30 - 160	---	---		Open Hole		
RD-14	IV	125	12	0 - 30	8-1/4	0 - 30	0 - 30		1824.29	07/27/89
			6-1/2	30 - 125	---	---		Open Hole		
RD-15	IV	152	12	0 - 30	8-1/4	0 - 30	0 - 30		1817.70	07/27/89
			6-1/2	30 - 152	---	---		Open Hole		
RD-16	IV	220	12	0 - 30	8-1/4	0 - 30	0 - 30		1808.99	08/15/89
			6-1/2	30 - 220	---	---		Open Hole		
RD-17	IV	125	12	0 - 30	8-1/4	0 - 30	0 - 30		1836.30	08/10/89
			6-1/2	30 - 125	---	---		Open Hole		
RD-18	IV	240	12	0 - 30	8-1/4	0 - 30	0 - 30		1839.49	07/28/89
			6-1/2	30 - 240	---	---		Open Hole		
RD-19	IV	135	12	0 - 30	8-1/4	0 - 30	0 - 30		1853.13	07/31/89
			6-1/2	30 - 135	---	---		Open Hole		
RD-20	IV	127	12	0 - 30	8-1/4	0 - 30	0 - 30		1819.72	07/27/89
			6-1/2	30 - 127	---	---		Open Hole		
RD-21	IV	175	12	0 - 30	8-1/4	0 - 30	0 - 30		1866.96	08/11/89
			6-1/2	30 - 175	---	---		Open Hole		
RD-22	IV	440	12	0 - 30	8-1/4	0 - 30	0 - 30		1853.41	08/15/89
			6-1/2	30 - 440	---	---		Open Hole		
RD-23	IV	440	12	0 - 30	8-1/4	0 - 30	0 - 30		1838.19	08/16/89
			6-1/2	30 - 440	---	---		Open Hole		
RD-24	IV	150	12	0 - 30	8-1/4	0 - 30	0 - 30		1809.93	08/09/89
			6-1/2	30 - 150	---	---		Open Hole		

See last page of table for notes and abbreviations.

TABLE C-I
WELL CONSTRUCTION DATA
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Area No.	Effective Borehole Depth (feet)	Borehole		Casing		Sealed Interval (feet)	Perforated Interval (feet)	Measuring Point Elevation (ft MSL)	Date Drilling Completed
			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
RD-25	IV	Well abandoned April 2004 as part of Building 4059 demolition.								
RD-26	II	160	12	0 - 30	8-1/4	0 - 30	0 - 30		1880.39	08/03/89
			6-1/2	30 - 160	---	---		Open Hole		
RD-27	IV	150	12	0 - 30	8-1/4	0 - 30	0 - 30		1841.67	08/10/89
			6-1/2	30 - 150	---	---		Open Hole		
RD-28	IV	Well abandoned April 2004 as part of Building 4059 demolition.								
RD-29	IV	100	12	0 - 30	8-1/4	0 - 30	0 - 30		1806.29	08/10/89
			6-1/2	30 - 100	---	---		Open Hole		
RD-30	IV	75	12	0 - 30	8-1/4	0 - 30	0 - 30		1768.69	08/11/89
			6-1/2	30 - 75	---	---		Open Hole		
RD-31	I	542	12	0 - 30	8-1/4	0 - 30	0 - 30		1945.02	08/16/89
			6-1/2	30 - 178	---	---		Open Hole		
			3.8	178 - 542	---	---		Open Hole		11/14/05
RD-32	OS	150	17-1/2	0 - 19	12-1/8	0 - 19	0 - 19		1808.47	02/09/94
			11-7/8	19 - 99	6-1/4	0 - 99	0 - 99			
			5-7/8	99 - 150	---	---		Open Hole		
RD-33A	UL-N	320	17-1/2	0 - 11	12-1/8	0 - 11	0 - 11		1792.97	09/27/91
			11	11 - 100	6-1/4	0 - 100	0 - 100			
			5-1/2	100 - 320	---	---		Open Hole		
RD-33B	UL-N	415	17-1/2	0 - 20	12-1/8	0 - 20	0 - 20		1793.21	09/27/91
			11	20 - 360	6-1/4	0 - 360	20 - 360			
			6-1/4	360 - 415	---	---		Open Hole		
RD-33C	UL-N	520	17-1/2	0 - 10	12-1/8	0 - 10	0 - 10		1793.54	09/21/91
			11	10 - 480	6-1/4	0 - 480	0 - 480			
			6-1/4	480 - 520	---	---		Open Hole		
RD-34A	UL-N	60	12-1/4	0 - 16	8-1/4	0 - 16	0 - 16		1761.83	07/25/91
			6-1/2	16 - 60	---	---		Open Hole		
RD-34B	UL-N	240	17-1/2	0 - 30	12-1/8	0 - 30	0 - 30		1762.51	08/11/91
			11	30 - 180	6-1/4	0 - 180	0 - 180			
			6-1/4	180 - 240	---	---		Open Hole		

See last page of table for notes and abbreviations.

TABLE C-I
WELL CONSTRUCTION DATA
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Area No.	Effective Borehole Depth (feet)	Borehole		Casing		Sealed Interval (feet)	Perforated Interval (feet)	Measuring Point Elevation (ft MSL)	Date Drilling Completed
			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
RD-34C	UL-N	450	17-1/2	0 - 30	12-1/8	0 - 30	0 - 30		1762.60	08/10/91
			11	30 - 380	6-1/4	0 - 380	0 - 380			
			6-1/4	380 - 450	---	---		Open Hole		
RD-35A	I	110	12-1/4	0 - 19.5	8-1/4	0 - 19.5	0 - 19.5		1908.62	01/24/93
			6-1/4	19.5 - 110	4	0 - 105.5	0 - 30	65 - 105.5		
RD-35B	I	328	24	0 – 10	18	0 - 10	0 - 10		1905.65	01/18/99
			17-1/2	10 – 162	12	0 - 158	0 - 162			
			9-7/8	162 – 328	4	0 - 324	0 - 292	303 - 324		
			3	328 – 359	---	---	328 - 359			
RD-36A	OS	95	17-1/2	0 – 20	12-1/8	0 - 20	0 - 20		1913.09	01/14/94
			6-1/4	20 – 95	---	---		Open Hole		
RD-36B	OS	170	17-1/2	0 – 20.5	12-1/8	0 - 20.5	0 - 20.5		1915.26	03/13/94
			11-7/8	20.5 – 120	6-1/4	0 - 120	0 - 120			
			5-7/8	120 – 170	---	---		Open Hole		
RD-36C	OS	466	26	0 – 20	20	0 - 20	0 - 20		1913.82	04/23/94
			15	20 – 198	10-1/8	0 - 197	0 - 198			
			5-7/8	198 – 466	4	0 - 455.5	0 - 381	405 - 455.5		
RD-36D	OS	605	24-1/2	0 – 10	18	0 - 10	0 - 10		1920.08	09/10/97
			15	10 – 554	10	0 - 550	0 - 550			
			9-7/8	554 – 608	4	0 - 605	0 - 560	575 - 605		
RD-37	OS	400	17-1/2	0 – 38	12-1/8	0 - 38	0 - 38		1870.01	01/28/94
			11-7/8	38 – 260	4	0 - 377				
			7-7/8	260 – 400				272 - 377		
RD-38A	OS	120	17-1/2	0 – 20	12-1/8	0 - 20	0 - 20		1879.47	02/12/94
			6-1/2	20 – 120	---	---		Open Hole		
RD-38B	OS	370	24	0 - 6	18	0 - 6	0 - 6		1881.45	12/15/98
			17-1/2	6 - 170	12	0 - 161	0 - 170			
			11-7/8	170 - 279	6	0 - 277	0 - 279			
			5-1/2	279 - 370	---	---		Open Hole		
RD-39A	OS	159	17-1/2	0 – 20	12-1/8	0 - 20	0 - 20		1960.23	02/02/94
			6-1/2	20 – 159	---	---		Open Hole		

See last page of table for notes and abbreviations.

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BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Area No.	Effective Borehole Depth (feet)	Borehole		Casing		Sealed Interval (feet)	Perforated Interval (feet)	Measuring Point Elevation (ft MSL)	Date Drilling Completed
			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
RD-39B	OS	477	24	0 – 12	16	0 - 12	0 - 12		1959.48	11/11/97
			15	12 – 213	10	0 - 210	0 - 213			
			9-1/2	213 – 477	4	0 – 470	0 – 424	440 - 470		
			6-1/2	477 – 500	---	---	477 – 500			
RD-40	II	300	12-1/4	0 - 19.5	8-1/4	0 - 19.5	0 - 19.5		1972.02	01/08/93
			6-1/4	19.5 - 300	---	---		Open Hole		
RD-41A	II	120	12-1/4	0 - 19.5	8-1/4	0 - 19.5	0 - 19.5		1774.48	01/10/93
			6-1/4	19.5 - 120	---	---		Open Hole		
RD-41B	II	390	17-1/2	0 - 19.5	12-1/8	0 - 19.5	0 - 19.5		1774.71	10/19/93
			11-7/8	19.5 - 340	6-1/4	0 - 336	0 - 340			
			5-7/8	340 - 390	---	---		Open Hole		
RD-41C	II	558	17-1/2	0 - 19.5	12-1/8	0 - 19.5	0 - 19.5		1773.73	10/05/93
			11-1/4	19.5 - 492	6-1/4	0 - 491	0 - 492			
			6-1/4	492 - 558	---	---		Open Hole		
RD-42	II	120	12-1/4	0 - 19.5	8-1/4	0 - 19.5	0 - 19.5		1945.46	01/09/93
			6-1/4	19.5 - 120	---	---		Open Hole		
RD-43A	OS	98	17-1/2	0 - 19.5	12-1/8	0 - 19.5	0 - 19.5		1680.16	09/09/94
			6-1/2	19.5 - 98	---	---		Open Hole		
RD-43B	OS	295	17-1/2	0 - 20	12-1/8	0 - 20	0 - 20		1680.21	10/25/94
			11-7/8	20 - 240.5	6-1/4	0 – 240.5	0 – 30.5			
			6-1/2	240.5 – 295	---	---	115.5 – 240.5	Open Hole		
RD-43C	OS	439.5	17-1/2	0 - 20	12-1/8	0 - 20	0 - 20		1679.31	10/10/94
			11-7/8	20 - 370	6-1/4	0 - 370	5 - 140			
			6-1/2	370 - 439.5	---	---	183 - 219	Open Hole		
							318 - 368			
RD-44	I	485	17-1/2	0 - 20	12-1/8	0 - 20	0 - 20		2035.92	03/13/93
			6-1/4	20 - 485	---	---		Open Hole		
RD-45A	I	480	17-1/2	0 - 19.5	12-1/8	0 - 19.5	0 - 19.5		1841.59	02/06/93
			6-1/2	19.5 - 480	---	---		Open Hole		

See last page of table for notes and abbreviations.

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WELL CONSTRUCTION DATA
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Area No.	Effective Borehole Depth (feet)	Borehole		Casing		Sealed Interval (feet)	Perforated Interval (feet)	Measuring Point Elevation (ft MSL)	Date Drilling Completed
			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
RD-45B	I	590	17-1/2	0 - 20	12-1/8	0 - 20	0 - 20		1840.09	09/11/94
			11-7/8	20 - 538	6-1/4	0 - 538	0 - 127			
			6-1/2	538 - 590	---	---	471 - 538	Open Hole		
RD-45C	I	798	24	0 - 20	16	0 - 19	0 - 20		1835.74	08/26/94
			11-7/8	20 - 750	6-1/4	0 - 750	0 - 135			
			6-1/4	750 - 798	---	---	483 - 540	Open Hole		
							590 - 750			
RD-46A	I	140	12-1/4	0 - 29.5	8-1/4	0 - 29.5	0 - 29.5		1806.13	01/13/93
			6-1/4	29.5 - 140	---	---		Open Hole		
RD-46B	I	328	24	0 - 20	18	0 - 20	0 - 20		1807.19	12/19/98
			17-1/2	20 - 193	12	0 - 190	0 - 193			
			9-7/8	193 - 328	4	0 - 325	0 - 281	293 - 325		
			3	328 - 366	---	---	328 - 366			
RD-47	I	710	17-1/2	0 - 19	12-1/8	0 - 19	0 - 19		2045.72	04/01/93
			6-1/2	19.0 - 710	---	---		Open Hole		
RD-48A	UL-S	110	12-1/4	0 - 20	8-1/4	0 - 20	0 - 20		1736.54	03/15/93
			6-1/2	20 - 110	---	---		Open Hole		
RD-48B	UL-S	248	17-1/2	0 - 29.5	12-1/8	0 - 29.5	0 - 29.5		1735.40	05/26/93
			11-1/4	29.5 - 200	6-1/4	0 - 200	0 - 198.5			
			6-1/4	200 - 248	---	---		Open Hole		
RD-48C	UL-S	438	17-1/2	0 - 30	12-1/8	0 - 30	0 - 30		1734.95	05/16/93
			11-1/4	30 - 371	6-1/4	0 - 371	0 - 371			
			6-1/4	371 - 438	---	---		Open Hole		
RD-49A	II	50	12-3/4	0 - 18.5	8-1/4	0 - 18.5	0 - 18.5		1867.25	06/08/93
			6-1/4	18.5 - 50	---	---		Open Hole		
RD-49B	II	298	17-1/2	0 - 20	12-1/8	0 - 20	0 - 20		1867.95	06/14/93
			11-7/8	20 - 250	6-1/4	0 - 250	0 - 250			
			5-7/8	250 - 298	---	---		Open Hole		
RD-49C	II	558	17-1/2	0 - 19	12-1/8	0 - 19	0 - 19		1869.45	07/07/93
			11-7/8	19 - 500	6-1/4	0 - 491	0 - 491			
			6-1/4	500 - 558	---	---		Open Hole		

See last page of table for notes and abbreviations.

TABLE C-I
WELL CONSTRUCTION DATA
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Area No.	Effective Borehole Depth (feet)	Borehole		Casing		Sealed Interval (feet)	Perforated Interval (feet)	Measuring Point Elevation (ft MSL)	Date Drilling Completed
			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
RD-50	IV	195	12-3/4	0 - 18.5	8-1/4	0 - 18.5	0 - 18.5		1914.88	05/28/93
			6-1/4	18.5 - 195	---	---		Open Hole		
RD-51A	II	250	24	0 - 50	12-1/8	0 - 50	0 - 50		1832.51	07/11/91
			11-3/4	50 - 160	6-1/4	0 - 160	0 - 160			
			5-1/2	160 - 250	---	---		Open Hole		
RD-51B	II	370	24	0 - 48	12-1/8	0 - 48	0 - 48		1832.68	07/11/91
			11-3/4	48 - 300	6-1/4	0 - 300	0 - 300			
			5-1/2	300 - 370	---	---		Open Hole		
RD-51C	II	602	14	0 - 13.5	12-1/8	0 - 13.5	0 - 13.5		1831.65	07/09/91
			11-3/4	13.5 - 510	6-1/4	0 - 510	0 - 510			
			5-1/2	510 - 602	---	---		Open Hole		
RD-52A	I	137	12-1/4	0 - 19.5	8-1/4	0 - 19.5	0 - 19.5		1755.09	01/25/93
			6-1/2	19.5 - 137	---	---		Open Hole		
RD-52B	I	318	17-1/2	0 - 24	12-1/8	0 - 24	0 - 24		1712.15	12/06/93
			11-1/4	24 - 200	6-1/4	0 - 200	0 - 199			
			5-7/8	200 - 318	---	---		Open Hole		
RD-52C	I	678	17-1/2	0 - 20	12-1/8	0 - 20	0 - 20		1712.83	11/29/93
			11-7/8	20 - 450			0 - 620			
			11-1/4	450 - 620	6-1/4	0 - 620				
			6-1/4	620 - 678	---	---		Open Hole		
RD-53	I	159	14	0 - 20	12-1/8	0 - 20	0 - 20		1909.19	05/15/91
			12	20 - 77	6-1/4	0 - 77	0 - 77			
			5-1/2	77 - 159	---	---		Open Hole		
RD-54A	IV	278	17-1/2	0 - 19	12-1/8	0 - 19	0 - 19		1841.72	08/07/93
			11-1/4	19 - 119	6-1/4	0 - 119	0 - 119			
			5-7/8	119 - 278	---	---		Open Hole		
RD-54B	IV	437	17-1/2	0 - 19	12-1/8	0 - 19	0 - 19		1842.54	08/31/93
			11-1/4	19 - 379	6-1/4	0 - 379	0 - 379			
			5-7/8	379 - 437	---	---		Open Hole		

See last page of table for notes and abbreviations.

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WELL CONSTRUCTION DATA
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Area No.	Effective Borehole Depth (feet)	Borehole		Casing		Sealed Interval (feet)	Perforated Interval (feet)	Measuring Point Elevation (ft MSL)	Date Drilling Completed
			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
RD-54C	IV	638	17-1/2	0 - 20	12-1/8	0 - 20	0 - 20		1843.77	07/27/93
			11-1/4	20 - 558	6-1/4	0 - 557	0 - 557			
			6-1/4	558 - 638	---	---		Open Hole		
RD-55A	III	106	17-1/2	0 - 28	12-1/8	0 - 28	0 - 28		1756.87	02/19/93
			6-1/4	28 - 106	---	---		Open Hole		
RD-55B	III	250	17-1/2	0 - 20	12-1/8	0 - 20	0 - 20		1757.19	04/19/93
			11	20 - 199.5	6-1/4	0 - 199.5	0 - 199.5			
			5-7/8	199.5 - 250	---	---		Open Hole		
RD-56A	UL-N	397.5	17-1/2	0 - 20.5	12-1/8	0 - 20.5	0 - 20.5		1758.62	03/08/94
			6-1/2	20.5 - 397.5	---	---		Open Hole		
RD-56B	UL-N	463	22	0 - 10	16	0 - 10	0 -10		1761.83	07/24/97
			15	10 - 453	10	0 - 443	0 - 443			
			6-1/2	453 - 463	---	---		Open Hole		
RD-57	UL-N	419	17-1/2	0 - 19.5	12-1/8	0 - 19.5	0 - 19.5		1774.15	02/23/94
			6-1/2	19.5 - 419	---	---		Open Hole		
RD-58A	III	126	12-1/4	0 - 19.5	8-1/4	0 - 19.5	0 - 19.5		1756.11	02/01/93
			6-1/4	19.5 - 126	---	---		Open Hole		
RD-58B	III	268	17-1/2	0 - 20	12-1/8	0 - 20	0 - 20		1761.34	08/28/94
			11-7/8	20 - 220	6-1/4	0 - 220	0 - 220			
			6-1/2	220 - 268	---	---		Open Hole		
RD-58C	III	498	17-1/2	0 - 19	12-1/8	0 - 19	0 - 19		1759.59	08/09/94
			11-7/8	19 - 450	6-1/4	0 - 450	0 - 450			
			6-1/2	450 - 498	---	---		Open Hole		
RD-59A	OS	58	17-1/2	0 - 21	12-1/8	0 - 21	0 - 21		1340.50	05/19/94
			6-1/2	21 - 58	---	---		Open Hole		
RD-59B	OS	214	17-1/2	0 - 19.5	12-1/8	0 - 19.5	0 - 19.5		1342.49	07/02/94
			6-1/2	19.5 - 214	2	0 - 209	0 - 161	178 - 209		
RD-59C	OS	398	17-1/2	0 - 19	12-1/8	0 - 19	0 - 19		1345.41	07/02/94
			6-1/2	19 - 398	2	0 - 397	0 - 186			
							250 - 328	345.5 - 397		

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BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Area No.	Effective Borehole Depth (feet)	Borehole		Casing		Sealed Interval (feet)	Perforated Interval (feet)	Measuring Point Elevation (ft MSL)	Date Drilling Completed
			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
RD-60	III	126	12-1/4	0 - 19.5	8-1/4	0 - 19.5	0 - 19.5		1870.40	01/21/93
			6-1/4	19.5 - 126	---	---		Open Hole		
RD-61	I	129	17-1/2	0 - 19	12-1/8	0 - 19	0 - 19		1845.87	04/26/94
			6-1/4	19 - 129	---	---		Open Hole		
RD-62	UL-S	238	17-1/2	0 - 20.7	12-1/8	0 - 20.7	0 - 19.5		1837.20	05/06/94
			6-1/2	20.7 - 238	---	---		Open Hole		
RD-63	IV	230	12-3/4	0 - 20	8-1/4	0 - 20	0 - 20		1764.85	05/10/94
			6-1/2	20 - 230	---	---		Open Hole		
RD-64	IV	398	12-1/4	0 - 19	8-1/4	0 - 19	0 - 19		1857.04	05/19/94
			6-1/2	19 - 398	---	---		Open Hole		
RD-65	IV	397	12-3/4	0 - 19	8-1/4	0 - 19	0 - 19		1819.14	08/14/94
			6-1/2	19 - 397	---	---		Open Hole		
RD-66	OS	225	22	0 - 19	12	0 - 19	0 - 19		1730.79	07/28/97
			6-1/2	19 - 225	---	---		Open Hole		
RD-67	UL-S	102	17-1/2	0 - 20	12	0 - 20	0 - 20		1901.71	09/19/97
			6-1/2	20 - 102	---	---		Open Hole		
RD-68A	OS	90	17-1/2	0 - 19	12	0 - 19	0 - 19		1307.64	06/05/97
			6-1/4	19 - 90	---	---		Open Hole		
RD-68B	OS	272	---	0 - 52	12	0 - 52	0 - 224	240 - 270	1312.44	06/11/97
			11-7/8	52 - 272	4	0 - 270				
RD-69	I	103	17-1/2	0 - 19	12	0 - 19	0 - 19		1831.28	06/16/97
			6-1/4	19 - 103	---	---		Open Hole		
RD-70	UL-N	278	17-1/2	0 - 19	12	0 - 19	0 - 19		1732.26	06/14/97
			6-1/2	19 - 278	---	---		Open Hole		
RD-71	OS	281	17-1/2	0 - 20	12	0 - 20	0 - 20		1740.02	07/27/97
			6-1/2	20 - 281	---	---		Open Hole		
RD-72	I	182	24	0 - 27	12	0 - 27	0 - 27		1907.25	12/23/97
			6-1/2	27 - 182	---	---		Open Hole		
RD-73	I	141	12	0 - 20	10	0 - 20	0 - 20		1901.60	07/19/95
			6	20 - 141	---	---		Open Hole		

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BOEING SANTA SUSANA FIELD LABORATORY
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Well Identifier	Area No.	Effective Borehole Depth (feet)	Borehole		Casing		Sealed Interval (feet)	Perforated Interval (feet)	Measuring Point Elevation (ft MSL)	Date Drilling Completed
			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
RD-74	IV	101	17-1/2	0 - 30	12	0 - 30	0 - 30		1810.90	01/21/99
			6-1/2	30 - 101	---	---		Open Hole		
RD-75	UL-S	425	12-3/4	0 - 30	8	0 - 30	0 - 30		1613.30	11/24/03
			4-4/5	30 - 425	---	---		Open Hole		
RD-76	I	153	12-3/4	0 - 30	8	0 - 30	0 - 30		1772.27	12/03/03
			6	30 - 153	4	0 - 153	---	133 - 153		
			5-1/2	153-185	---	---	Fill 153-185			
RD-77	I	170	12-3/4	0 - 46	8	0 - 46	0 - 46		1918.48	12/03/03
			4-4/5	46 - 170	---	---		Open Hole		
RD-78	I	333	12-3/4	0 - 40	8	0 - 40	0 - 40		1819.84	12/09/03
			5-1/2	40 - 333	---	---		Open Hole		
RD-80	I	224	12-3/4	0 - 19	8	0 - 19	0 - 19		1740.18	12/01/03
			4-4/5	19 - 224	---	---		Open Hole		
RD-81	I	205	12-3/4	0 - 20	8	0 - 20	0 - 20		1705.77	06/14/04
			6	20 - 205	---	---		Open Hole		
RD-82	II	197	12-3/4	0 - 20	8	0 - 20	0 - 20		1676.73	06/09/04
			6	20 - 197	---	---		Open Hole		
RD-83	II	143	12-3/4	0 - 20	8	0 - 20	0 - 20		1661.18	06/16/04
			6	20 - 143	---	---		Open Hole		
RD-84	I	171	10	0 - 40	5	0 - 40	0 - 40		1907.83	12/15/03
			4	40 - 171	---	---		Open Hole		
RD-85	IV	90	13-3/8	0 - 20	8	0 - 20	0 - 20		1849.09	08/04/04
			5	20 - 90	---	---		Open Hole		
RD-86	IV	80	13-3/8	0 - 20	8	0 - 20	0 - 20		1830.51	08/09/04
			5	20 - 80	---	---		Open Hole		
RD-87	IV	60	13-3/8	0 - 20	8	0 - 20	0 - 20		1789.09	08/11/04
			5	20 - 60	---	---		Open Hole		
RD-88	IV	30	13-3/8	0 - 20	8	0 - 20	0 - 20		1774.62	08/16/04
			5	20 - 30	---	---		Open Hole		
RD-89	IV	50	13	0 - 30	8	0 - 30	0 - 30		1814.18	05/18/05
			3.8	30 - 50	---	---		Open Hole		

See last page of table for notes and abbreviations.

TABLE C-I
WELL CONSTRUCTION DATA
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Area No.	Effective Borehole Depth (feet)	Borehole		Casing		Sealed Interval (feet)	Perforated Interval (feet)	Measuring Point Elevation (ft MSL)	Date Drilling Completed
			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
RD-90	IV	125	12-3/4	0 - 20	8	0 - 20	0 - 20		1784.75	03/11/04
			6	20 - 125	---	---		Open Hole		
RD-91	IV	140	12-3/4	0 - 20	8	0 - 20	0 - 20		1818.04	03/12/04
			6	20 - 140	---	---		Open Hole		
RD-92	IV	105	12-3/4	0 - 20	8	0 - 20	0 - 20		1833.74	03/16/04
			6	20 - 105	---	---		Open Hole		
RD-93	IV	60	13	0 - 20	8	0 - 20	0 - 20		1810.48	05/19/05
			3.8	20 - 60	---	---		Open Hole		
RD-94	UL, NW of IV	35	13	0 - 20.5	8	0 - 20.5	0 - 20.5		1744.38	05/15/05
			3.8	20.5 - 35	---	---		Open Hole		
RD-95	IV	80	13	0 - 50	8	0 - 50	0 - 50		1811.36	05/12/05
			3.8	50 - 80	---	---		Open Hole		
RD-96	IV	90	13	0 - 20	8	0 - 20	0 - 20		1805.14	05/03/06
			4	20 - 90	---	---		Open Hole		
RD-97	UL, NW of IV	74.5	13	0 - 20	8	0 - 20	0 - 20		1792.22	04/28/06
			4	20 - 74.5	---	---		Open Hole		
RD-98	IV	65	13-3/8	0 - 20	8-1/8	0 - 20	0 - 20		1808.73	06/04/08
			5-1/2	20 - 65	---	---	---	Open hole		
WS-04A	I	502	13	0 - 300	10-1/4	0 - 288	Unknown	96 - 288	1749.77	1953
			10	300 - 502	---	---		Open Hole		
WS-05	I	2304	>12-1/4	0 - 40	12	0 - 40	0 - 55		1830.20	1951
			12-1/4	40 - 2304	---	---		Open Hole		
WS-06	I	1440	30	0 - 6	12-1/8	0 - 450	0 - 6	306 - 450	1932.72	1953
			13	6 - 450	---	---				
			8-1/4	450 - 1440				Open Hole		
WS-07	IV	700	15	0 - 400	12-1/8	0 - 400	Unknown	216 - 400	1826.19	1954
			10	400 - 700	---	---		Open Hole		
WS-08	III	700	15	0 - 400	12-1/8	0 - 400	Unknown	192 - 400	1794.39	1954
			10	400 - 700	---	---		Open Hole		

See last page of table for notes and abbreviations.

TABLE C-I
WELL CONSTRUCTION DATA
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Area No.	Effective Borehole Depth (feet)	Borehole		Casing		Sealed Interval (feet)	Perforated Interval (feet)	Measuring Point Elevation (ft MSL)	Date Drilling Completed
			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
WS-09	II	1800	30	0 - 17	12-1/8	0 - 17	0 - 14		1883.99	1955
			15	17 - 690	---	---				
			10	690 - 1800				Open Hole		
WS-09A	II	541	30	0 - 34	14	0 - 34	0 - 20		1647.61	1956
			15	34 - 541	12-1/8	0 - 541				
					8-1/4	0 - 539		20 - 539		
WS-09B	II	220	16	0 - 220	---	---	Unknown	Open Hole	1796.89	1956
WS-11	III	677	13	0 - 400	12-1/8	0 - 400	Unknown	200 - 400	1748.70	1956
			9	400 - 677	8-1/4	365.5 - 615		365 - 615		
								Open Hole		
WS-12	I	1768	15	0 - 408	14	0 - 375	Unknown		1705.98	1956
			12	408 - 1768	---	---		Open Hole		
WS-13	II	940	>13	0 - 750	12-1/8	0 - 750	0 - 15	22 - 750	1658.62	1957
			11-1/2	750 - 940	---	---		Open Hole		
WS-14	I	1272	>16	0 - 40	16	0 - 40	Unknown		1878.23	1957
			12-3/4	40 - 1272	---	---		Open Hole		
WS-SP	II	203	Unknown	0 - 203	6	0 - 203	Unknown	Unknown	1766.76	Unknown
HAR-01	I	110	15	0 - 30	10-1/8	0 - 30	0 - 30		1874.13	05/16/87
			8	30 - 110	---	---		Open Hole		
HAR-05	II	180	15	0 - 30	10-1/8	0 - 30	0 - 30		1812.65	05/16/87
			8	30 - 180	---	---		Open Hole		
HAR-06	II	160	15	0 - 30	10-1/8	0 - 30	0 - 30		1815.03	05/16/87
			8	30 - 160	---	---		Open Hole		
HAR-07	II	100	15	0 - 30	10-1/8	0 - 30	0 - 30		1728.38	05/20/87
			8	30 - 100	---	---		Open Hole		
HAR-08	II	130	15	0 - 30	10-1/8	0 - 30	0 - 30		1730.75	05/20/87
			8	30 - 130	---	---		Open Hole		
HAR-16	I	120	15	0 - 30	10-1/8	0 - 30	0 - 30		1872.31	05/20/87
			8	30 - 120	---	---		Open Hole		
HAR-17	II	100	15	0 - 30	10-1/8	0 - 30	0 - 30		1711.59	05/20/87
			8	30 - 100	---	---		Open Hole		

See last page of table for notes and abbreviations.

TABLE C-I
WELL CONSTRUCTION DATA
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Area No.	Effective Borehole Depth (feet)	Borehole		Casing		Sealed Interval (feet)	Perforated Interval (feet)	Measuring Point Elevation (ft MSL)	Date Drilling Completed
			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
HAR-18	III	80	15	0 - 30	10-1/8	0 - 30	0 - 30		1749.41	05/20/87
			8	30 - 80	---	---		Open Hole		
HAR-19	II	220	15	0 - 30	10-1/8	0 - 30	0 - 30		1833.42	06/17/87
			8	30 - 220	---	---		Open Hole		
HAR-20	II	230	15	0 - 30	10-1/8	0 - 30	0 - 30		1830.47	06/16/87
			8	30 - 230	---	---		Open Hole		
HAR-21	II	130	15	0 - 30	10-1/8	0 - 30	0 - 30		1821.30	06/18/87
			8	30 - 130	---	---		Open Hole		
HAR-22	II	90	15	0 - 30	10-1/8	0 - 30	0 - 30		1816.41	06/18/87
			8	30 - 90	---	---		Open Hole		
HAR-23	III	90	15	0 - 30	10-1/8	0 - 30	0 - 30		1805.87	06/18/87
			8	30 - 90	---	---		Open Hole		
HAR-24	I	110	15	0 - 30	10-1/8	0 - 30	0 - 30		1906.89	06/18/87
			8	30 - 110	---	---		Open Hole		
HAR-25	I	90	15	0 - 30	10-1/8	0 - 30	0 - 30		1889.75	06/18/87
			8	30 - 90	---	---		Open Hole		
HAR-26	III	90	15	0 - 30	10-1/8	0 - 30	0 - 30		1763.23	06/18/87
			8	30 - 90	---	---		Open Hole		
PRIVATE OFF-SITE WELLS AND SPRINGS										
OS-01 (converted to RD-68B)	OS	288	Unknown	Unknown	10	0 - 52	Unknown		1310.34	Unknown
					---	---		Open Hole		
OS-02	OS	700	Unknown	Unknown	10	0 - 17	0 - 17		1237.01	03/18/59
					---	---		Open Hole		
OS-03	OS	100	Drilled with cable tools		8-1/4	0 - 59	0 - 30	30 - 60	1298.15	06/12/50
					---	---		Open Hole		
OS-04	OS	Well Construction Data Unresolved or Not Available							1334.00	
OS-05	OS	Well Construction Data Unresolved or Not Available								
OS-08(S)	OS									
OS-09	OS	Well Construction Data Unresolved or Not Available								
OS-10	OS	600	18	0 - 10	12-1/8	0 - 10	0 - 10		1016.97	12/54
			12	10 - 600	---	---		Open Hole		

See last page of table for notes and abbreviations.

TABLE C-I
WELL CONSTRUCTION DATA
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Area No.	Effective Borehole Depth (feet)	Borehole		Casing		Sealed Interval (feet)	Perforated Interval (feet)	Measuring Point Elevation (ft MSL)	Date Drilling Completed
			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
OS-12(S)	OS									
OS-13(S)	OS									
OS-15	OS	218	Drilled with cable tools		8-1/4 ---	0 - 40 ---	0 - 40	 Open Hole	1404.86	08/27/60
OS-16	OS	Well Construction Data Unresolved or Not Available							1785.05	
OS-17	OS	475	Drilled with cable tools		--- ---	0 – 25 ---		 Open Hole	1564.07	04/64
OS-21	OS	Well Construction Data Unresolved or Not Available							1900.39	
OS-24	OS	515	10 6	0 - 40 40 - 515	6-1/4 ---	0 - 40 ---	0 - 40	 Open Hole	1947.30	12/02/87
OS-25	OS	515	10 6	0 - 36 36 - 515	6-1/4 ---	0 - 36 ---	0 - 36	 Open Hole	2043.58	12/10/87
OS-26	OS	515	10 6	0 - 40 40 - 515	6-1/4 ---	0 - 40 ---	0 - 40	 Open Hole	2080.58	11/16/87
OS-27	OS	477	10-1/4 6-1/8	0 - 30 30 - 477	10 6	0 - 5.5 0 - 30	0 - 30	 Open Hole	2043.90	05/16/95
OS-28	OS	245	10	0 - 245	6	0 - 242	0 - 182	182 - 242		04/25/95

See last page of table for notes and abbreviations.

TABLE C- I
NOTES AND ABBREVIATIONS

1. Depth/intervals are measured in feet below land surface.
2. Well OS-01 was converted to well RD-68B in 1997.
3. (---) = No casing installed over the borehole interval specified; open hole.
4. (v) = Top of well below land surface, installed inside zero-grade vault.
5. S = Spring; construction data not applicable.
6. UL-N = Undeveloped land in northern part of Facility.
7. UL-S = Undeveloped land in southern part of Facility.
8. OS = Off-site

TABLE C-II

CONSTRUCTION DETAILS OF FLUTe DISCRETE-INTERVAL MONITORING SYSTEMS
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well	RD-07		RD-10		RD-21		RD-22	
Date Liner Installed	04/29/02		03/18/02		01/14/03		02/18/03	
Date Liner Removed	NA		07/23/04		NA		NA	
Top of Casing Elevation (ft msl)	1812.82		1904.43		1866.96		1853.41	
Open-hole Depth to Water (ft btc)	87.03		195		90.3		305	
Hole Total Depth (ft btc)	299.55		401		175.3		440	
	Depth of Open Interval (ft btc)	Midpoint Monitoring Elevation (ft msl)	Depth of Open Interval (ft btc)	Midpoint Monitoring Elevation (ft msl)	Depth of Open Interval (ft btc)	Midpoint Monitoring Elevation (ft msl)	Depth of Open Interval (ft btc)	Midpoint Monitoring Elevation (ft msl)
Port 1	50 - 60	1757.82	171 - 181	1728.43	85-95	1776.96	310-320	1538.41
Port 2	70 - 80	1737.82	191 - 201	1708.43	105-115	1756.96	330-340	1518.41
Port 3	90 - 100	1717.82	211 - 221	1688.43	125-135	1736.96	350-360	1498.41
Port 4	110 - 120	1697.82	231 - 241	1668.43	145-155	1716.96	370-380	1478.41
Port 5	130 - 140	1677.82	251 - 261	1648.43	165-175	1696.96	390-400	1458.41
Port 6	150 - 160	1657.82	271 - 281	1628.43	--	--	410-420	1438.41
Port 7	170 - 180	1637.82	291 - 301	1608.43	--	--	430-440	1418.41
Port 8	190 - 200	1617.82	311 - 321	1588.43	--	--	--	--
Port 9	210 - 220	1597.82	331 - 341	1568.43	--	--	--	--
Port 10	230 - 240	1577.82	351 - 361	1548.43	--	--	--	--
Port 11	250 - 260	1557.82	371 - 381	1528.43	--	--	--	--
Port 12	270 - 280	1537.82	391 - 401	1508.43	--	--	--	--
Port 13	290 - 299.55	1518.05	--	--	--	--	--	--
Port 14	--	--	--	--	--	--	--	--
Port 15	--	--	--	--	--	--	--	--

See last page of table for notes and abbreviations.

TABLE C-II

CONSTRUCTION DETAILS OF FLUTe DISCRETE-INTERVAL MONITORING SYSTEMS
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well	RD-23		RD-31		RD-33A		RD-38A	
Date Liner Installed	01/20/03		01/25/01		01/09/03		06/06/01	
Date Liner Removed	NA		07/28/04		NA		12/09/02	
Top of Casing Elevation (ft msl)	1838.19		1945.02		1792.97		1878.92	
Open-hole Depth to Water (ft btc)	236.15		116.32		211.58		95.48	
Hole Total Depth (ft btc)	443.2		178.5		321.75		118.5	
	Depth of Open Interval (ft btc)	Midpoint Monitoring Elevation (ft msl)	Depth of Open Interval (ft btc)	Midpoint Monitoring Elevation (ft msl)	Depth of Open Interval (ft btc)	Midpoint Monitoring Elevation (ft msl)	Depth of Open Interval (ft btc)	Midpoint Monitoring Elevation (ft msl)
Port 1	231-241	1602.19	48 - 58	1892.02	211 - 221	1576.97	13 - 18	1863.42
Port 2	251-261	1582.19	68 - 78	1872.02	231 - 241	1556.97	23 - 28	1853.42
Port 3	271-281	1562.19	88 - 98	1852.02	251 - 261	1536.97	33 - 38	1843.42
Port 4	291-301	1542.19	108 - 118	1832.02	271 - 281	1516.97	43 - 48	1833.42
Port 5	311-321	1522.19	128 - 138	1812.02	291 - 301	1496.97	53 - 58	1823.42
Port 6	331-341	1502.19	148 - 158	1792.02	311 - 321	1476.97	63 - 68	1813.42
Port 7	351-361	1482.19	168 - 178	1772.02	--	--	73 - 78	1803.42
Port 8	371-381	1462.19	--	--	--	--	83 - 88	1793.42
Port 9	391-396.5	1444.44	--	--	--	--	93 - 98	1783.42
Port 10	--	--	--	--	--	--	103 - 108	1773.42
Port 11	--	--	--	--	--	--	113 - 118	1763.42
Port 12	--	--	--	--	--	--	--	--
Port 13	--	--	--	--	--	--	--	--
Port 14	--	--	--	--	--	--	--	--
Port 15	--	--	--	--	--	--	--	--

See last page of table for notes and abbreviations.

TABLE C-II
CONSTRUCTION DETAILS OF FLUTe DISCRETE-INTERVAL MONITORING SYSTEMS
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well	RD-39A		RD-45A		RD-50		RD-53	
Date Liner Installed	06/01/01		05/25/01		01/15/03		01/23/01	
Date Liner Removed	12/10/02		09/09/02		NA		07/30/04	
Top of Casing Elevation (ft msl)	1960.23		1841.59		1914.88		1909.19	
Open-hole Depth to Water (ft btc)	138.15		345.58		113.31		128.5	
Hole Total Depth (ft btc)	159		476.5		195.3		161	
	Depth of Open Interval (ft btc)	Midpoint Monitoring Elevation (ft msl)	Depth of Open Interval (ft btc)	Midpoint Monitoring Elevation (ft msl)	Depth of Open Interval (ft btc)	Midpoint Monitoring Elevation (ft msl)	Depth of Open Interval (ft btc)	Midpoint Monitoring Elevation (ft msl)
Port 1	94 - 99	1863.73	186 - 196	1650.59	106-116	1803.88	74 - 79	1832.69
Port 2	104 - 109	1853.73	206 - 216	1630.59	126-136	1783.88	84 - 89	1822.69
Port 3	114 - 119	1843.73	226 - 236	1610.59	146-156	1763.88	94 - 99	1812.69
Port 4	124 - 129	1833.73	246 - 256	1590.59	166-176	1743.88	104 - 109	1802.69
Port 5	134 - 139	1823.73	266 - 276	1570.59	186-195.3	1724.23	114 - 119	1792.69
Port 6	144 - 149	1813.73	286 - 296	1550.59	--	--	124 - 129	1782.69
Port 7	154 - 159	1803.73	306 - 316	1530.59	--	--	134 - 139	1772.69
Port 8	--	--	326 - 336	1510.59	--	--	144 - 149	1762.69
Port 9	--	--	346 - 356	1490.59	--	--	154 - 159	1752.69
Port 10	--	--	366 - 376	1470.59	--	--	--	--
Port 11	--	--	386 - 396	1450.59	--	--	--	--
Port 12	--	--	406 - 416	1430.59	--	--	--	--
Port 13	--	--	426 - 436	1410.59	--	--	--	--
Port 14	--	--	446 - 456	1390.59	--	--	--	--
Port 15	--	--	466 - 476	1370.59	--	--	--	--

See last page of table for notes and abbreviations.

TABLE C-II
CONSTRUCTION DETAILS OF FLUTe DISCRETE-INTERVAL MONITORING SYSTEMS
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well	RD-54A		RD-57		RD-64		RD-65	
Date Liner Installed	01/07/03		09/11/02		04/17/02		10/29/02	
Date Liner Removed	NA		NA		NA		NA	
Top of Casing Elevation (ft msl)	1841.72		1774.15		1857.04		1819.14	
Open-hole Depth to Water (ft btc)	160.2		352.5		231.82		227	
Hole Total Depth (ft btc)	283.8		418.3		403.0		397	
	Depth of Open Interval (ft btc)	Midpoint Monitoring Elevation (ft msl)	Depth of Open Interval (ft btc)	Midpoint Monitoring Elevation (ft msl)	Depth of Open Interval (ft btc)	Midpoint Monitoring Elevation (ft msl)	Depth of Open Interval (ft btc)	Midpoint Monitoring Elevation (ft msl)
Port 1	150.5 - 160.5	1686.22	228 - 238	1541.15	170.5 - 180.5	1681.54	167 - 177	1647.14
Port 2	170.5 - 180.5	1666.22	248 - 258	1521.15	190.5 - 200.5	1661.54	187 - 197	1627.14
Port 3	190.5 - 200.5	1646.22	268 - 278	1501.15	210.5 - 220.5	1641.54	207 - 217	1607.14
Port 4	210.5 - 220.5	1626.22	288 - 298	1481.15	230.5 - 240.5	1621.54	227 - 237	1587.14
Port 5	230.5 - 240.5	1606.22	308 - 318	1461.15	250.5 - 260.5	1601.54	247 - 257	1567.14
Port 6	250.5 - 260.5	1586.22	328 - 338	1441.15	270.5 - 280.5	1581.54	267 - 277	1547.14
Port 7	270.5 - 280.5	1566.22	348 - 358	1421.15	290.5 - 300.5	1561.54	287 - 297	1527.14
Port 8	--	--	368 - 378	1401.15	310.5 - 320.5	1541.54	307 - 317	1507.14
Port 9	--	--	388 - 398	1381.15	330.5 - 340.5	1521.54	327 - 337	1487.14
Port 10	--	--	408 - 418	1361.15	350.5 - 360.5	1501.54	347 -357	1467.14
Port 11	--	--	--	--	370.5 - 380.5	1481.54	367 - 377	1447.14
Port 12	--	--	--	--	390.5 - 400.5	1461.54	387 - 397	1427.14
Port 13	--	--	--	--	--	--	--	--
Port 14	--	--	--	--	--	--	--	--
Port 15	--	--	--	--	--	--	--	--

See last page of table for notes and abbreviations.

TABLE C-II
CONSTRUCTION DETAILS OF FLUTe DISCRETE-INTERVAL MONITORING SYSTEMS
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well	RD-66		RD-71		RD-72		RD-73	
Date Liner Installed	04/30/01		05/07/01		04/02/01		02/02/01	
Date Liner Removed	07/17/02		07/19/02		NA		07/28/04	
Top of Casing Elevation (ft msl)	1730.79		1740.02		1907.25		1901.60	
Open-hole Depth to Water (ft btc)	173.1		182.87		78.82		70.08	
Hole Total Depth (ft btc)	226		282		184		140	
	Depth of Open Interval (ft btc)	Midpoint Monitoring Elevation (ft msl)	Depth of Open Interval (ft btc)	Midpoint Monitoring Elevation (ft msl)	Depth of Open Interval (ft btc)	Midpoint Monitoring Elevation (ft msl)	Depth of Open Interval (ft btc)	Midpoint Monitoring Elevation (ft msl)
Port 1	76 - 86	1649.79	52 - 62	1683.02	45 - 55	1857.25	27 - 32	1872.1
Port 2	96 - 106	1629.79	72 - 82	1663.02	65 - 75	1837.25	37 - 42	1862.1
Port 3	116 - 126	1609.79	92 - 102	1643.02	85 - 95	1817.25	47 - 52	1852.1
Port 4	136 - 146	1589.79	112 - 122	1623.02	105 - 115	1797.25	57 - 62	1842.1
Port 5	156 - 166	1569.79	132 - 142	1603.02	125 - 135	1777.25	67 - 72	1832.1
Port 6	176 - 186	1549.79	152 - 162	1583.02	145 - 155	1757.25	77 - 82	1822.1
Port 7	196 - 206	1529.79	172 - 182	1563.02	165 - 175	1737.25	87 - 92	1812.1
Port 8	216 - 226	1509.79	192 - 202	1543.02	185 - 195	1717.25	97 - 102	1802.1
Port 9	--	--	212 - 222	1523.02	--	--	107 - 112	1792.1
Port 10	--	--	232 - 242	1503.02	--	--	117 - 122	1782.1
Port 11	--	--	252 - 262	1483.02	--	--	127 - 132	1772.1
Port 12	--	--	272 - 282	1463.02	--	--	137 - 140	1762.1
Port 13	--	--	--	--	--	--	--	--
Port 14	--	--	--	--	--	--	--	--
Port 15	--	--	--	--	--	--	--	--

See last page of table for notes and abbreviations.

TABLE C-II
CONSTRUCTION DETAILS OF FLUTe DISCRETE-INTERVAL MONITORING SYSTEMS
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well	HAR-01		HAR-16		HAR-24		OS-24	
Date Liner Installed	03/08/01		06/19/01		04/06/01		07/09/01	
Date Liner Removed	07/26/04		07/26/04		07/26/04		Partially Removed	
Top of Casing Elevation (ft msl)	1874.13		1872.31		1906.89		1947.30	
Open-hole Depth to Water (ft btc)	48.31		Unknown		75.3		285	
Hole Total Depth (ft btc)	108		114		112.5		513	
	Depth of Open Interval (ft btc)	Midpoint Monitoring Elevation (ft msl)	Depth of Open Interval (ft btc)	Midpoint Monitoring Elevation (ft msl)	Depth of Open Interval (ft btc)	Midpoint Monitoring Elevation (ft msl)	Depth of Open Interval (ft btc)	Midpoint Monitoring Elevation (ft msl)
Port 1	13 - 18	1858.63	0 - 4	1870.31	37 - 42	1867.39	223 - 233	1719.3
Port 2	23 - 28	1848.63	9 - 14	1860.81	47 - 52	1857.39	243 - 253	1699.3
Port 3	33 - 38	1838.63	19 - 24	1850.81	57 - 62	1847.39	263 - 273	1679.3
Port 4	43 - 48	1828.63	29 - 34	1840.81	67 - 72	1837.39	283 - 293	1659.3
Port 5	53 - 58	1818.63	39 - 44	1830.81	77 - 82	1827.39	303 - 313	1639.3
Port 6	63 - 68	1808.63	49 - 54	1820.81	87 - 92	1817.39	323 - 333	1619.3
Port 7	73 - 78	1798.63	59 - 64	1810.81	97 - 102	1807.39	343 - 353	1599.3
Port 8	83 - 88	1788.63	69 - 74	1800.81	107 - 112	1797.39	363 - 373	1579.3
Port 9	93 - 98	1778.63	79 - 84	1790.81	--	--	383 - 393	1559.3
Port 10	103 - 108	1768.63	89 - 94	1780.81	--	--	403 - 413	1539.3
Port 11	--	--	99 - 104	1770.81	--	--	423 - 433	1519.3
Port 12	--	--	109 - 114	1760.81	--	--	443 - 453	1499.3
Port 13	--	--	--	--	--	--	463 - 473	1479.3
Port 14	--	--	--	--	--	--	483 - 493	1459.3
Port 15	--	--	--	--	--	--	503 - 513	1439.3

See last page of table for notes and abbreviations.

TABLE C-II
NOTES AND ABBREVIATIONS

1.	ft btc	=	Feet below top of casing.
2.	ft msl	=	Feet above mean sea level.
3.	NA	=	Not applicable
4.	--	=	No FLUTe port installed.

5. HAR-01, HAR-16, HAR-24, RD-38A, RD-39A, RD-53, and RD-73 have/had alternating open and blank intervals at 5-foot frequencies (i.e., 5 feet open then 5 feet closed).

6. RD-07, RD-10, RD-21, RD-22, RD-23, RD-31, RD-33A, RD-45A, RD-50, RD-54A, RD-57, RD-64, RD-65, RD-66, RD-71, RD-72, and OS-24 have/had alternating open and blank intervals at 10-foot frequencies (i.e., 10 feet open then 10 feet closed).

TABLE C-III
CONSTRUCTION DETAILS OF PIEZOMETER MONITORING SYSTEMS
The Boeing Company
Santa Susana Field Laboratory
Ventura County, California

PIEZOMETER ID	LOCATION					PIEZOMETER DESIGN DETAILS						
	Area	SWMU	Northing	Easting	MP Elevation	Date Drilled	Total Depth	Screened Interval	Sand Interval	Bentonite Interval	Grout Interval	Concrete Interval
			[feet]	[feet]	[feet]	[m/d/y]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]
PZ-001A	II	RD-9 Area	268546.6	1789711.3	1768.50	10/31/2000	N/A	5.75-6.25	5-7	2-5	N/A	0-2
PZ-001B	II	RD-9 Area	268546.6	1789711.3	1768.50	10/31/2000	N/A	17.75-18.25	17-19	7-17	N/A	N/A
PZ-001C	II	RD-9 Area	268546.6	1789711.3	1768.50	10/31/2000	N/A	29.75-30.25	29-31	19-29	N/A	N/A
PZ-001D	II	RD-9 Area	268546.6	1789711.3	1768.50	10/31/2000	N/A	38.25-38.75	37.5-39.2	31-37.5	N/A	N/A
PZ-001E	II	RD-9 Area	268546.6	1789711.3	1768.50	10/31/2000	N/A	51.75-52.25	51-53	39.2-51	N/A	N/A
PZ-001F	II	RD-9 Area	268546.6	1789711.3	1768.50	10/31/2000	58.0	57.75-58.25	56.8-60	53-56.8	N/A	N/A
PZ-002A	I	CTL-III N	265543.1	1792828.1	1780.25	11/1/2000	N/A	5.75-6.25	5-7	2-5	N/A	0-2
PZ-002B	I	CTL-III N	265543.1	1792828.1	1780.25	11/1/2000	N/A	14.75-15.25	14-16	7-14	N/A	N/A
PZ-002C	I	CTL-III N	265543.1	1792828.1	1780.25	11/1/2000	N/A	26.75-27.25	26-28	16-26	N/A	N/A
PZ-002D	I	CTL-III N	265543.1	1792828.1	1780.25	11/1/2000	N/A	36.75-37.25	36-38	28-36	N/A	N/A
PZ-002E	I	CTL-III N	265543.1	1792828.1	1780.25	11/1/2000	N/A	51.75-52.25	51-53	38-51	N/A	N/A
PZ-002F	I	CTL-III N	265543.1	1792828.1	1780.25	11/1/2000	N/A	64.75-65.25	64-66	53-64	N/A	N/A
PZ-002G	I	CTL-III N	265543.1	1792828.1	1780.25	11/1/2000	82.0	79 [a]	78-81	66-78	N/A	N/A
PZ-003	I	APTF	267665.9	1795219.4	1897.85	11/2/2000	60.0	15-25	13-26	10-13	2-10	0-2
PZ-004A	II	Delta / PLF	264973.5	1787246.6	1716.00	12/13/2000	16.0	5-15	4-16	2-4	N/A	0-2
PZ-004B	II	Delta / PLF	264969.6	1787241.5	1715.89	12/13/2000	36.0	20-30	18-31.5	15-18	2-15	0-2
PZ-005	IV	Central Area IV	266634.9	1784877.3	1800.97	11/7/2000	45.0	15-25	11.5-26.5	8.5-11.5	2-8.5	0-2
PZ-006A	III	ECL	266669.3	1786868.4	1765.82	11/7/2000	N/A	5.75-6.25	5-7	2-5	N/A	0-2
PZ-006B	III	ECL	266669.3	1786868.4	1765.82	11/7/2000	N/A	13.75-14.25	13-15	7-13	N/A	N/A
PZ-006C	III	ECL	266669.3	1786868.4	1765.82	11/7/2000	N/A	17.75-18.25	17-19	15-17	N/A	N/A
PZ-006D	III	ECL	266669.3	1786868.4	1765.82	11/7/2000	N/A	23.75-24.25	23-25	19-23	N/A	N/A
PZ-006E	III	ECL	266669.3	1786868.4	1765.82	11/7/2000	36.5	34.75-35.25	34-36.5	25-34	N/A	N/A

Notes:

The difference between the total depth and the bottom of the sand interval was filled with sloughed native material and/or bentonite.

[a] The screen for this port is perpendicular to the well casing and covers the open bottom end; therefore, the screened section is a discrete depth.

bgs - Below ground surface
MP - Measuring point
UDL - undeveloped land

Table provided by MWH.
Haley & Aldrich, Inc.
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TABLE C-III
CONSTRUCTION DETAILS OF PIEZOMETER MONITORING SYSTEMS
The Boeing Company
Santa Susana Field Laboratory
Ventura County, California

PIEZOMETER ID	LOCATION					PIEZOMETER DESIGN DETAILS						
	Area	SWMU	Northing	Easting	MP Elevation	Date Drilled	Total Depth	Screened Interval	Sand Interval	Bentonite Interval	Grout Interval	Concrete Interval
			[feet]	[feet]	[feet]	[m/d/y]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]
PZ-007A	II	RD-9 Area	268474.7	1789593.8	1771.84	11/7/2000	N/A	5.75-6.25	5-7	2-5	N/A	0-2
PZ-007B	II	RD-9 Area	268474.7	1789593.8	1771.84	11/7/2000	N/A	10.75-11.25	10-12	7-10	N/A	N/A
PZ-007C	II	RD-9 Area	268474.7	1789593.8	1771.84	11/7/2000	N/A	15.75-16.25	15-17	12-15	N/A	N/A
PZ-007D	II	RD-9 Area	268474.7	1789593.8	1771.84	11/7/2000	N/A	24.75-25.25	24-26	17-24	N/A	N/A
PZ-007E	II	RD-9 Area	268474.7	1789593.8	1771.84	11/7/2000	N/A	30.75-31.25	30-32	26-30	N/A	N/A
PZ-007F	II	RD-9 Area	268474.7	1789593.8	1771.84	11/7/2000	N/A	35.75-36.25	35-37	32-35	N/A	N/A
PZ-007G	II	RD-9 Area	268474.7	1789593.8	1771.84	11/7/2000	46.0	45 [a]	42.6-46	37-42.6	N/A	N/A
PZ-008A	I	LETF / CTL-I	267305.5	1794332.0	1836.12	11/8/2000	N/A	8.75-9.25	8-10	5-8	2-5	0-2
PZ-008B	I	LETF / CTL-I	267305.5	1794332.0	1836.12	11/8/2000	N/A	19.75-20.25	19-21	10-19	N/A	N/A
PZ-008C	I	LETF / CTL-I	267305.5	1794332.0	1836.12	11/8/2000	N/A	31.75-32.25	31-33	21-31	N/A	N/A
PZ-008D	I	LETF / CTL-I	267305.5	1794332.0	1836.12	11/8/2000	N/A	39.75-40.25	39-41	33-39	N/A	N/A
PZ-008E	I	LETF / CTL-I	267305.5	1794332.0	1836.12	11/8/2000	N/A	46.75-47.25	46-48	41-46	N/A	N/A
PZ-008F	I	LETF / CTL-I	267305.5	1794332.0	1836.12	11/8/2000	N/A	62.75-63.25	61-64	48-61	N/A	N/A
PZ-008G	I	LETF / CTL-I	267305.5	1794332.0	1836.12	11/8/2000	72.0	70 [a]	69-71	64-69	N/A	N/A
PZ-009A	II	RD-9 Area	268649.2	1789768.5	1761.44	11/14/2000	N/A	5.75-6.25	5-7	2-5	N/A	0-2
PZ-009B	II	RD-9 Area	268649.2	1789768.5	1761.44	11/14/2000	N/A	10.75-11.25	10-12	7-10	N/A	N/A
PZ-009C	II	RD-9 Area	268649.2	1789768.5	1761.44	11/14/2000	N/A	18.25-18.75	17.5-19.5	12-17.5	N/A	N/A
PZ-009D	II	RD-9 Area	268649.2	1789768.5	1761.44	11/14/2000	N/A	22.75-23.25	22-24	19.5-22	N/A	N/A
PZ-009E	II	RD-9 Area	268649.2	1789768.5	1761.44	11/14/2000	N/A	30.25-30.75	29.5-31.5	24-29.5	N/A	N/A
PZ-009F	II	RD-9 Area	268649.2	1789768.5	1761.44	11/14/2000	36.0	34.75-35.25	34-36	31.5-34	N/A	N/A
PZ-010A	II	RD-9 Area	268595.8	1789646.3	1767.80	11/14/2000	N/A	7.75-8.25	7-9	5-7	2-5	0-2
PZ-010B	II	RD-9 Area	268595.8	1789646.3	1767.80	11/14/2000	N/A	13.75-14.25	13-15	9-13	N/A	N/A

Notes:

The difference between the total depth and the bottom of the sand interval was filled with sloughed native material and/or bentonite.
[a] The screen for this port is perpendicular to the well casing and covers the open bottom end; therefore, the screened section is a discrete depth.
bgs - Below ground surface
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The Boeing Company
Santa Susana Field Laboratory
Ventura County, California

PIEZOMETER ID	LOCATION					PIEZOMETER DESIGN DETAILS						
	Area	SWMU	Northing	Easting	MP Elevation	Date Drilled	Total Depth	Screened Interval	Sand Interval	Bentonite Interval	Grout Interval	Concrete Interval
			[feet]	[feet]	[feet]	[m/d/y]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]
PZ-010C	II	RD-9 Area	268595.8	1789646.3	1767.80	11/14/2000	N/A	19.75-20.25	19-21	15-19	N/A	N/A
PZ-010D	II	RD-9 Area	268595.8	1789646.3	1767.80	11/14/2000	N/A	25.75-26.25	22-27	21-25	N/A	N/A
PZ-010E	II	RD-9 Area	268595.8	1789646.3	1767.80	11/14/2000	N/A	29.75-30.25	29-31	27-29	N/A	N/A
PZ-010F	II	RD-9 Area	268595.8	1789646.3	1767.80	11/14/2000	N/A	38.25-38.75	36.5-39.5	31-36.5	N/A	N/A
PZ-010G	II	RD-9 Area	268595.8	1789646.3	1767.80	11/14/2000	45.0	43 [a]	42-44.5	39.5-42	N/A	N/A
PZ-011A	I	IEL	268086.1	1796133.0	1914.48	11/14/2000	N/A	15.75-16.25	15-17	12-15	2-12	0-2
PZ-011B	I	IEL	268086.1	1796133.0	1914.48	11/14/2000	N/A	24.75-25.25	24-26	17-24	N/A	N/A
PZ-011C	I	IEL	268086.1	1796133.0	1914.48	11/14/2000	N/A	30.75-31.25	30-32	26-30	N/A	N/A
PZ-011D	I	IEL	268086.1	1796133.0	1914.48	11/14/2000	N/A	40.75-41.25	39-42	32-39	N/A	N/A
PZ-011E	I	IEL	268086.1	1796133.0	1914.48	11/14/2000	N/A	46.25-46.75	44.5-47.5	42-44.5	N/A	N/A
PZ-011F	I	IEL	268086.1	1796133.0	1914.48	11/14/2000	N/A	51.25-51.75	50.5-52.5	47.5-50.5	N/A	N/A
PZ-011G	I	IEL	268086.1	1796133.0	1914.48	11/14/2000	58.0	56 [a]	55-58	52.5-55	N/A	N/A
PZ-012A	I	LETF S	266871.1	1794033.3	1827.69	11/16/2000	N/A	4.75-5.25	4-6	2-4	N/A	0-2
PZ-012B	I	LETF S	266871.1	1794033.3	1827.69	11/16/2000	N/A	10.75-11.25	10-12	6-10	N/A	N/A
PZ-012C	I	LETF S	266871.1	1794033.3	1827.69	11/16/2000	N/A	16.75-17.25	16-18	12-16	N/A	N/A
PZ-012D	I	LETF S	266871.1	1794033.3	1827.69	11/16/2000	N/A	21.25-21.75	20.5-22.5	18-20.5	N/A	N/A
PZ-012E	I	LETF S	266871.1	1794033.3	1827.69	11/16/2000	N/A	26.75-27.25	25-28	22.5-25	N/A	N/A
PZ-012F	I	LETF S	266871.1	1794033.3	1827.69	11/16/2000	37.0	34.75-35.25	34-37	28-34	N/A	N/A
PZ-013A	III	Comp A	266008.7	1786153.4	1739.89	11/17/2000	N/A	5.75-6.25	5-7	2-5	N/A	0-2
PZ-013B	III	Comp A	266008.7	1786153.4	1739.89	11/17/2000	N/A	14.75-15.25	13-16	7-13	N/A	N/A
PZ-013C	III	Comp A	266008.7	1786153.4	1739.89	11/17/2000	N/A	20.75-21.25	20-22	16-20	N/A	N/A
PZ-013D	III	Comp A	266008.7	1786153.4	1739.89	11/17/2000	N/A	28.75-29.25	27-30	22-27	N/A	N/A

Notes:

The difference between the total depth and the bottom of the sand interval was filled with sloughed native material and/or bentonite.
[a] The screen for this port is perpendicular to the well casing and covers the open bottom end; therefore, the screened section is a discrete depth.
bgs - Below ground surface
MP - Measuring point
UDL - undeveloped land

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The Boeing Company
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Ventura County, California

PIEZOMETER ID	LOCATION					PIEZOMETER DESIGN DETAILS						
	Area	SWMU	Northing	Easting	MP Elevation	Date Drilled	Total Depth	Screened Interval	Sand Interval	Bentonite Interval	Grout Interval	Concrete Interval
			[feet]	[feet]	[feet]	[m/d/y]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]
PZ-013E	III	Comp A	266008.7	1786153.4	1739.89	11/17/2000	N/A	39.75-40.25	39-41	30-39	N/A	N/A
PZ-013F	III	Comp A	266008.7	1786153.4	1739.89	11/17/2000	56.4	53.75-54.25	53-56.4	41-53	N/A	N/A
PZ-014A	III	Comp A	265865.4	1786275.4	1728.12	11/18/2000	N/A	5.75-6.25	5-7	2-5	N/A	0-2
PZ-014B	III	Comp A	265865.4	1786275.4	1728.12	11/18/2000	N/A	13.25-14.75	13.5-15.5	7-13.5	N/A	N/A
PZ-014C	III	Comp A	265865.4	1786275.4	1728.12	11/18/2000	N/A	19.75-20.25	19-21	15.5-19	N/A	N/A
PZ-014D	III	Comp A	265865.4	1786275.4	1728.12	11/18/2000	N/A	29.25-29.75	28.5-30.5	21-28.5	N/A	N/A
PZ-014E	III	Comp A	265865.4	1786275.4	1728.12	11/18/2000	42.0	38.75-39.25	37.8-41	30.5-37.8	N/A	N/A
PZ-015A	III	STL-IV	265687.4	1785844.7	1740.56	11/19/2000	N/A	5.75-6.25	5-7	2-5	N/A	0-2
PZ-015B	III	STL-IV	265687.4	1785844.7	1740.56	11/19/2000	N/A	13.75-14.25	13-15	7-13	N/A	N/A
PZ-015C	III	STL-IV	265687.4	1785844.7	1740.56	11/19/2000	N/A	24.25-24.75	23.5-25.5	15-23.5	N/A	N/A
PZ-015D	III	STL-IV	265687.4	1785844.7	1740.56	11/19/2000	N/A	32.75-33.25	31-34	25.5-31	N/A	N/A
PZ-015E	III	STL-IV	265687.4	1785844.7	1740.56	11/19/2000	N/A	37.75-38.25	37-39	34-37	N/A	N/A
PZ-015F	III	STL-IV	265687.4	1785844.7	1740.56	11/19/2000	N/A	43.25-43.75	42.5-44.5	39-42.5	N/A	N/A
PZ-015G	III	STL-IV	265687.4	1785844.7	1740.56	11/19/2000	49.5	48 [a]	47-49.5	44.5-47	N/A	N/A
PZ-016A	I	Canyon	266960.8	1794388.2	1854.34	11/20/2000	N/A	8.75-9.25	8-10	5-8	2-5	0-2
PZ-016B	I	Canyon	266960.8	1794388.2	1854.34	11/20/2000	N/A	18.25-18.75	17.5-19.5	10-17.5	N/A	N/A
PZ-016C	I	Canyon	266960.8	1794388.2	1854.34	11/20/2000	N/A	25.75-26.25	24-27	19.5-24	N/A	N/A
PZ-016D	I	Canyon	266960.8	1794388.2	1854.34	11/20/2000	N/A	33.75-34.25	33-35	27-33	N/A	N/A
PZ-016E	I	Canyon	266960.8	1794388.2	1854.34	11/20/2000	N/A	44.25-44.75	42.5-45.5	35-42.5	N/A	N/A
PZ-016F	I	Canyon	266960.8	1794388.2	1854.34	11/20/2000	N/A	56.75-57.25	56-58	45.5-56	N/A	N/A
PZ-016G	I	Canyon	266960.8	1794388.2	1854.34	11/20/2000	68.0	64.5 [a]	63.5-68	58-63.5	N/A	N/A
PZ-017A	II	Coca	265169.9	1788794.1	1837.83	11/21/2000	18.0	7-17	6-18	4-6	2-4	0-2

Notes:

The difference between the total depth and the bottom of the sand interval was filled with sloughed native material and/or bentonite.
[a] The screen for this port is perpendicular to the well casing and covers the open bottom end; therefore, the screened section is a discrete depth.
bgs - Below ground surface
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Ventura County, California

PIEZOMETER ID	LOCATION					PIEZOMETER DESIGN DETAILS						
	Area	SWMU	Northing	Easting	MP Elevation	Date Drilled	Total Depth	Screened Interval	Sand Interval	Bentonite Interval	Grout Interval	Concrete Interval
			[feet]	[feet]	[feet]	[m/d/y]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]
PZ-017B	II	Coca	265168.4	1788789.1	1837.20	11/21/2000	31.0	20-30	18-31	15-18	2-15	0-2
PZ-018A	III	EEL	266278.3	1785963.5	1760.71	11/21/2000	N/A	5.75-6.25	5-7	2-5	N/A	0-2
PZ-018B	III	EEL	266278.3	1785963.5	1760.71	11/21/2000	N/A	11.25-11.75	10.5-12.5	7-10.5	N/A	N/A
PZ-018C	III	EEL	266278.3	1785963.5	1760.71	11/21/2000	N/A	15.75-16.25	15-17	12.5-15	N/A	N/A
PZ-018D	III	EEL	266278.3	1785963.5	1760.71	11/21/2000	N/A	19.75-20.25	19-20.8	17-19	N/A	N/A
PZ-018E	III	EEL	266278.3	1785963.5	1760.71	11/21/2000	26.0	24.75-25.25	22.5-25.5	20.8-22.5	N/A	N/A
PZ-019	II	RD-9 Area	268481.9	1789765.7	1776.77	11/29/2000	31.5	19-29	17-29.3	14-17	2-14	0-2
PZ-020	II	RD-9 Area	268428.3	1789492.8	1776.44	11/27/2000	31.5	19-29	17-29.5	14-17	2-14	0-2
PZ-021	II	RD-9 Area	268740.7	1789818.0	1759.26	11/27/2000	29.5	18-28	16-29.5	13-16	2-13	0-2
PZ-022	II	RD-9 Area	268636.1	1789594.0	1774.44	11/30/2000	29.5	19-29	17-29.5	14-17	2-14	0-2
PZ-023	III	ECL	266415.7	1786832.4	1758.96	11/30/2000	25.0	6-16	5-22	2-5	N/A	0-2
PZ-024	III	ECL	266485.1	1786749.6	1770.30	12/4/2000	25.0	14-24	12-24.5	9-12	2-9	0-2
PZ-025	III	ECL	266637.0	1786700.5	1780.27	12/4/2000	27.0	13-23	11-25.5	8-11	2-8	0-2
PZ-026	III	ECL	266453.2	1786996.3	1755.75	12/5/2000	24.2	14-24	12-24.2	9-12	2-9	0-2
PZ-027	III	ECL	266694.7	1786974.5	1773.06	12/5/2000	23.0	12-22	9.75-22.5	7-9.75	2-7	0-2
PZ-028	III	ECL	266445.3	1786539.9	1788.47	12/6/2000	44.0	25-35	20-35.5	17-20	2-17	0-2
PZ-029	III	EEL / Comp A	266350.5	1786105.8	1771.83	12/6/2000	31.0	19-29	17-31	14-17	2-14	0-2
PZ-030	III	EEL / Comp A	266264.1	1786177.7	1765.98	12/7/2000	32.5	17-27	12-32.5	9-12	2-9	0-2
PZ-031	III	EEL / Comp A	266198.9	1786234.0	1763.97	12/7/2000	30.0	13-23	9-24	6-9	2-6	0-2
PZ-032	III	Comp A	266044.9	1786345.0	1739.75	12/7/2000	22.0	10-20	5-22	2-5	N/A	0-2
PZ-033	III	Comp A	265757.3	1786439.6	1721.73	12/8/2000	29.0	11-21	9-22	6-9	2-6	0-2
PZ-034	III	Comp A	265907.5	1786529.6	1714.68	12/8/2000	12.0	5-12	4-12	2-4	N/A	0-2

Notes:

The difference between the total depth and the bottom of the sand interval was filled with sloughed native material and/or bentonite.
[a] The screen for this port is perpendicular to the well casing and covers the open bottom end; therefore, the screened section is a discrete depth.
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TABLE C-III
CONSTRUCTION DETAILS OF PIEZOMETER MONITORING SYSTEMS
The Boeing Company
Santa Susana Field Laboratory
Ventura County, California

PIEZOMETER ID	LOCATION					PIEZOMETER DESIGN DETAILS						
	Area	SWMU	Northing	Easting	MP Elevation	Date Drilled	Total Depth	Screened Interval	Sand Interval	Bentonite Interval	Grout Interval	Concrete Interval
			[feet]	[feet]	[feet]	[m/d/y]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]
PZ-035	III	Comp A	265633.6	1786446.9	1712.96	12/11/2000	24.0	10-20	7-22.3	5-7	2-5	0-2
PZ-036	III	STL-IV	265656.6	1785404.9	1759.07	12/11/2000	28.9	15-25	10-28.9	7-10	2-7	0-2
PZ-037	III	STL-IV	265410.3	1785632.1	1749.29	12/12/2000	28.5	18-28	15-28.5	12-15	2-12	0-2
PZ-038	III	Comp A	265905.6	1785847.4	1752.31	12/12/2000	32.0	17-27	14-31.5	11-14	2-11	0-2
PZ-039	III	STL-IV	265797.1	1785695.9	1753.97	12/13/2000	29.0	18-28	14-29	11-14	2-11	0-2
PZ-040	III	STL-IV	264963.2	1785695.2	1704.54	12/13/2000	31.5	16.5-26.5	11-27	8-11	2-8	0-2
PZ-041	IV	PDU	267315.8	1785662.0	1809.10	1/16/2001	29.6	19-29	17-29.6	14-17	2-14	0-2
PZ-042	II	Delta / PLF	265103.3	1787397.2	1729.25	12/13/2000	40.5	19.5-29.5	17-31	14-17	2-14	0-2
PZ-043	II	Coca Rd W	265377.0	1787987.3	1776.63	12/13/2000	45.0	30-40	25-41	22-25	2-22	0-2
PZ-044	II	Coca Rd W	Abandoned 4/10/01									
PZ-045	II	Coca	265228.7	1788459.0	1828.55	12/15/2000	45.0	30-40	28-43.5	25-28	2-25	0-2
PZ-046	II	Coca	265321.9	1788500.8	1826.87	12/18/2000	35.0	24-34	22-34.5	19-22	2-19	0-2
PZ-047	II	Coca	265152.5	1788645.8	1835.51	12/18/2000	40.4	26-36	23-40.4	20-23	2-20	0-2
PZ-048	II	Coca	265150.4	1788984.1	1847.11	12/19/2000	49.0	9-19	7-20	4-7	2-4	0-2
PZ-049	II	Alfa	267506.9	1790363.0	1884.75	12/19/2000	34.0	6-16	4-17	2-4	N/A	0-2
PZ-050	III	EEL	266207.4	1785733.7	1765.50	12/14/2000	24.0	6-16	4-17	2-4	N/A	0-2
PZ-051	IV	EEL	266485.8	1785857.0	1770.87	12/14/2000	27.0	5-15	3-16	2-3	N/A	0-2
PZ-052	IV	Eastern Area IV	266742.1	1786103.7	1790.72	12/15/2000	30.0	18.9-28.9	17-30	14-17	2-14	0-2
PZ-053	II	R-2 Pond	265235.0	1786682.0	1701.72	12/15/2000	29.0	16-26	11-29	8-11	2-8	0-2
PZ-054	II	R-2 Pond North	265476.9	1786676.9	1702.11	12/18/2000	28.0	5-15	3.8-16	2-4	N/A	0-2
PZ-055	IV	Eastern Area IV	267253.6	1787421.3	1818.40	1/2/2001	29.5	19-29	17-29.5	14-17	2-14	0-2
PZ-056	IV	OCY S	268068.7	1788028.0	1805.86	12/19/2000	28.0	17-27	13-28	10-13	2-10	0-2

Notes:

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Haley & Aldrich, Inc.
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CONSTRUCTION DETAILS OF PIEZOMETER MONITORING SYSTEMS
The Boeing Company
Santa Susana Field Laboratory
Ventura County, California

PIEZOMETER ID	LOCATION					PIEZOMETER DESIGN DETAILS						
	Area	SWMU	Northing	Easting	MP Elevation	Date Drilled	Total Depth	Screened Interval	Sand Interval	Bentonite Interval	Grout Interval	Concrete Interval
			[feet]	[feet]	[feet]	[m/d/y]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]
PZ-057	III	SPA	267455.0	1788156.6	1812.19	12/19/2000	32.5	12-22	8-24	5-8	2-5	0-2
PZ-058	III	SPA	267430.1	1787892.5	1784.63	12/20/2000	16.0	5-15	4-15.5	2-4	N/A	0-2
PZ-059	II	Bravo	266997.0	1789649.2	1836.67	12/20/2000	24.0	12-22	8-24	5-8	2-5	0-2
PZ-060	II	Alfa	267465.3	1790039.2	1868.90	12/20/2000	49.0	38-48	36-49	33-36	2-33	0-2
PZ-061	II	Alfa	267329.7	1789461.4	1832.05	1/16/2001	25.0	5-15	4-17	2-4	N/A	0-2
PZ-062	I	LOX	268955.3	1792144.7	1716.57	1/3/2001	27.3	14-24	12-27.3	9-12	2-9	0-2
PZ-063	I	IEL	268679.9	1796093.9	1882.86	1/3/2001	50.0	36-46	34-50	31-34	2-31	0-2
PZ-064	I	IEL	268571.9	1796392.5	1912.20	1/8/2001	60.0	46-56	44-60	41-44	2-41	0-2
PZ-065	I	IEL	268197.0	1795785.4	1904.93	1/9/2001	45.0	29-39	27-40	24-27	2-24	0-2
PZ-066	I	IEL	268141.4	1795531.1	1897.19	1/9/2001	55.0	44-54	42-55	39-42	2-39	0-2
PZ-067A	I	B359	267889.7	1795614.1	1909.66	1/12/2001	40.0	28-38	26-40	23-26	2-23	0-2
PZ-067B	I	B359	267892.5	1795607.5	1909.06	1/15/2001	65.0	48-58	46-59	43-46	2-43	0-2
PZ-068	I	Area I Landfill Upper	267959.1	1795304.9	1894.02	1/17/2001	55.0	44-54	42-54.8	39-42	2-39	0-2
PZ-069	I	APTF	267826.0	1795001.2	1885.33	1/18/2001	49.8	39-49	37-49.8	34-37	2-34	0-2
PZ-070	II	Bravo	267188.8	1789392.0	1834.61	12/20/2001	43.0	13-23	11-24	8-11	2-8	0-2
PZ-071	II	SPA	267577.3	1788785.5	1817.94	12/21/2000	31.5	18-28	15-31	11.9-15	2-11.9	0-2
PZ-072	III	Silvernale	266807.7	1787590.8	1768.19	1/2/2001	20.0	8.5-18.5	6.5-19	2-6.5	N/A	0-2
PZ-073	UDL	ELV Drainage	269435.8	1788107.5	1760.54	1/3/2001	55.0	41-51	35-55	30.5-35	2-30.5	0-2
PZ-074	I	Happy Valley	266110.3	1796300.5	1772.73	1/8/2001	25.0	10-20	8.5-24	5-8.5	2-5	0-2
PZ-075	I	IEL	268540.9	1795877.3	1893.10	1/8/2001	45.0	33-43	27-45	24.5-27	2-24.5	0-2
PZ-076	I	CTL-III	264309.1	1792921.1	1767.09	1/9/2001	60.0	36-46	32-47	28-32	2-28	0-2
PZ-077	I	Perimeter Pond	264396.8	1792351.4	1753.42	1/10/2001	37.0	15-25	12-26	9-12	2-9	0-2

Notes:

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Ventura County, California

PIEZOMETER ID	LOCATION					PIEZOMETER DESIGN DETAILS						
	Area	SWMU	Northing	Easting	MP Elevation	Date Drilled	Total Depth	Screened Interval	Sand Interval	Bentonite Interval	Grout Interval	Concrete Interval
			[feet]	[feet]	[feet]	[m/d/y]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]
PZ-078	I	Perimeter Pond / CTL-III	264578.0	1792341.9	1755.77	1/11/2001	48.0	15-25	12-26	9.5-12	2-9.5	0-2
PZ-079	I	CTL-III	265305.8	1792641.4	1776.66	1/11/2001	35.0	15-25	12-26	9.4-12	2-9.4	0-2
PZ-080	I	R-1 Pond	266375.7	1793364.4	1813.15	1/16/2001	50.0	19-29	5-31	2-5	N/A	0-2
PZ-081	I	LETF / CTL-I	267450.6	1794405.9	1841.67	1/19/2001	49.0	38.5-48.5	36.5-49	33.5-36.5	2-33.5	0-2
PZ-082	I	R-1 Pond	265999.5	1793220.6	1798.08	1/17/2001	45.0	10-20	8-21	5-8	2-5	0-2
PZ-083	I	LETF / CTL-I	267256.1	1794099.0	1833.45	1/22/2001	50.0	20-30	18-31	15-18	2-15	0-2
PZ-084	I	Bowl	265902.5	1793977.1	1836.00	1/18/2001	33.0	21-31	17-33	13.5-17	2-13.5	0-2
PZ-085A	I	Bowl	265753.4	1793796.9	1816.79	1/23/2001	31.0	20-30	17-31	14-17	2-14	0-2
PZ-085B	I	Bowl	265754.9	1793803.5	1816.81	1/22/2001	60.0	37-47	34-48	31-34	2-31	0-2
PZ-086	I	LETF / CTL-I	267235.1	1794239.4	1833.44	1/18/2001	35.0	16-26	14-27	11-14	2-11	0-2
PZ-087A	I	Bowl	265919.9	1793555.7	1817.15	1/24/2001	22.5	11-21	7-22.5	4.5-7	2-4.5	0-2
PZ-087B	I	Bowl	265915.2	1793549.9	1816.23	1/23/2001	55.0	41.5-51.5	36-55	34-36	2-34	0-2
PZ-088	I	LETF / CTL-I	267598.6	1794688.4	1859.54	1/19/2001	45.0	32-42	27-43	24-27	2-24	0-2
PZ-089	I	APTF	267716.1	1794950.5	1876.64	1/22/2001	20.0	6-16	4.5-18	2-4.5	N/A	0-2
PZ-090	I	CTL-III N	265525.4	1792702.2	1780.01	1/12/2001	45.0	16-26	13-28	10-13	2-10	0-2
PZ-091	I	CTL-III N	265700.0	1792877.1	1788.84	1/15/2001	55.0	26-36	23.5-40	20-23.5	2-20	0-2
PZ-092	I	B359	267813.6	1795369.1	1897.59	1/22/2001	34.5	19-29	17-31	14-17	2-14	0-2
PZ-093	I	LETF S	266764.7	1793696.6	1821.79	1/23/2001	40.0	24.5-34.5	22-35	19-22	2-19	0-2
PZ-094	Offsite	Sage Ranch	269025.4	1795857.2	1857.76	1/25/2001	34.0	13-23	10-24	8-10	2-8	0-2
PZ-095	I	LOX	269117.2	1792686.5	1760.02	2/14/2001	37.5	14-24	11-26	8-11	2-8	0-2
PZ-096	II	Coca Rd W	265475.3	1787620.7	1766.30	4/21/2001	45.0	33.5-43.5	31-45	28-31	2-28	0-2
PZ-097	UDL	FSDF	267048.9	1783400.3	1761.87	10/15/2001	44.5	33-43	31-44.5	11.5-28	2-11.5	0-2

Notes:

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	Area	SWMU	Northing	Easting	MP Elevation	Date Drilled	Total Depth	Screened Interval	Sand Interval	Bentonite Interval	Grout Interval	Concrete Interval
			[feet]	[feet]	[feet]	[m/d/y]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]
PZ-098	IV	FSDF	266788.9	1783488.8	1797.78	10/16/2001	37.5	24-34	21.5-37.5	19-21.5	2-19	0-2
PZ-099	IV	FSDF	Abandoned in place in 2006									
PZ-100	IV	FSDF	266078.3	1782962.2	1870.11	10/17/2001	16.5	5.67-15.67	4.67-16.5	2-4.67	N/A	0-2
PZ-101	IV	FSDF	266057.5	1783090.6	1869.71	10/17/2001	27	10-20	7-27	5-7	1.75-5	0-1.75
PZ-102	IV	Central Area IV	267080.8	1784684.4	1827.78	10/18/2001	59.2	48.5-59.2	45-59.2	43-45	2-43	0-2
PZ-103	IV	Central Area IV	266281.2	1784400.9	1815.93	10/22/2001	39	28.5-38.5	26-39	23.5-26	2-23.5	0-2
PZ-104	IV	Central Area IV	266270.2	1784924.2	1797.47	10/22/2001	38.5	18-28	16-30	13-16	2-13	0-2
PZ-105	IV	Central Area IV	265935.5	1784787.9	1803.87	10/23/2001	28	17-27	15-28	12-15	2-12	0-2
PZ-106	IV	EEL	266411.9	1785469.6	1784.17	10/23/2001	35	18-28	16-30.5	12.75-16	2-12.75	0-2
PZ-107	IV	Eastern Area IV	266876.4	1785822.0	1793.62	10/24/2001	11	5-10	4-11	2-4	N/A	0-2
PZ-108	IV	HMSA	268032.6	1785076.3	1763.01	10/24/2001	30	16-26	13-28.5	10-13	2-10	0-2
PZ-109	IV	Central Area IV	267332.4	1785248.2	1809.36	10/25/2001	36.5	25-35	22-36.5	19-22	2-19	0-2
PZ-110	IV	Eastern Area IV	267204.0	1786209.6	1818.90	10/25/2001	17.5	7-17	5-17.5	2-5	N/A	0-2
PZ-111	IV	Eastern Area IV	266948.4	1786433.9	1794.90	10/26/2001	20.0	7.5-17.5	5-20	N/A	N/A	N/A
PZ-112	IV	Eastern Area IV	267435.9	1786720.8	1829.14	10/26/2001	35.0	24-34	22-35	19-22	2-19	0-2
PZ-113	IV	Eastern Area IV	267682.9	1787367.8	1823.68	10/29/2001	15.0	7-15	5-15	2-5	N/A	0-2
PZ-114	IV	Old Con Yard S	268304.0	1787913.1	1818.19	10/30/2001	48.2	37-47	35-48.2	32-35	2-32	0-2
PZ-115	IV	Eastern Area IV	268006.8	1787536.5	1817.81	10/30/2001	40	25.5-37.5	25-40	22-25	2-22	0-2
PZ-116	UDL	RMHF	266501.1	1783693.0	1827.78	10/31/2001	34	22-32	20-34	17-20	2-17	0-2
PZ-117	I	Happy Valley	266712.9	1796184.6	1763.01	11/1/2001	25.5	14.5-24.5	12.5-25.5	9.5-12.5	2-9.5	0-2
PZ-118	I	B-1 Area	269389.4	1796988.7	1907.84	11/2/2001	30.0	19.5-29.5	16.5-30	13.5-16.5	2-13.5	0-2
PZ-119	Offsite	Sage Ranch	269025.4	1795863.3	1857.64	11/2/2001	44	33-43	30-44	27-30	2-27	0-2

Notes:

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Santa Susana Field Laboratory
Ventura County, California

PIEZOMETER ID	LOCATION					PIEZOMETER DESIGN DETAILS						
	Area	SWMU	Northing	Easting	MP Elevation	Date Drilled	Total Depth	Screened Interval	Sand Interval	Bentonite Interval	Grout Interval	Concrete Interval
			[feet]	[feet]	[feet]	[m/d/y]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]
PZ-120	IV	HMSA / SCTI	267230.1	1785009.7	1810.96	3/18/2003	26	15-25	12-26	9-12	2-9	0-2
PZ-121	IV	HMSA / SCTI	267491.6	1785120.7	1808.98	3/19/2003	33	15-25	12-28	8.4-12; 28-33	1.5-8.4	0-1.5
PZ-122	IV	HMSA / SCTI	267091.9	1785176.5	1810.80	3/19/2003	27.5	15.5-25.5	12-27.5	9-12	2-9	0-2
PZ-123	UDL	Happy Valley	264643.9	1797304.3	1610.81	3/20/2003	23.5	11.5-21.5	8.7-23.5	5.7-8.7	1-5.7	0-1
PZ-124	IV	B056 Landfill	267166.7	1784015.9	1764.11	3/21/2003	31	14.7-24.7	11.3-31	8.3-11.3	1-8.3	0-1
PZ-125	II	RD-9 Area	268357.1	1789379.4	1783.91	3/24/2003	41	23.5-33.5	20-34	16.5-20; 34-38	1.5-16.5	0-1
PZ-126	II	Coca	265095.8	1789222.8	1853.62	4/30/2003	21	10.5-21	7-20.5	1.5-7; 21-50	N/A	1-1.5
PZ-127	I	Canyon	266957.1	1794827.5	1877.19	4/24/2003	66	55.25-62.25	49-65.5	43-49	1-43	0-1

Notes:

The difference between the total depth and the bottom of the sand interval was filled with sloughed native material and/or bentonite.
[a] The screen for this port is perpendicular to the well casing and covers the open bottom end; therefore, the screened section is a discrete depth.
bgs - Below ground surface
MP - Measuring point
UDL - undeveloped land

TABLE C-III
CONSTRUCTION DETAILS OF PIEZOMETER MONITORING SYSTEMS
The Boeing Company
Santa Susana Field Laboratory
Ventura County, California

Well ID	Northing (feet)	Easting (feet)	Surface Elevation (feet amsl)	TOC Elevation (feet amsl)	Depth to Screen Top (feet bgs)	Depth to Screen Bottom (feet bgs)	Total Depth (feet bgs)	Total Depth Drilled (feet bgs)	Borehole Diameter (inches)	Casing Diameter (inches)	Screen Material	Screen Slot Size (inches)	Casing Material	Filter Pack Grade	Filter Pack Top (feet bgs)	Filter Pack Bottom (feet bgs)	Drilling Method	Drill Company	Annular Seal Material	Annular Seal Top (feet bgs)	Annular Seal Bottom (feet bgs)	Wellhead Completion
PZ-128 (AKA CB-1)	269120.834	1792525.660	1754.77	1757.26	23.5	33.5	35	48	6	2	SCH40 PVC	0.02	SCH40 PVC	3	21	35	Mud Rotary with HQ Diamond Core Bit	Layne Drilling	95/5 Slurry Bentonite chips Bentonite chips	0 14 21	14 21 48	Monument
CB-02	269100.7558	1793006.813	1763.45	NA	No well construc ted	NA	45	45	4	NA	NA	NA	NA	NA	NA	NA	Mud Rotary with HQ Diamond Core Bit	Layne Drilling	NA	NA	NA	NA
PZ-129 (AKA CB-3)	268893.232	1792607.916	1738.59	1741.94	16.5	26.5	30	30.0	6	2	SCH40 PVC	0.02	SCH40 PVC	3	14	28	Mud Rotary with HQ Diamond Core Bit	Layne Drilling	95/5 Slurry Bentonite chips Bentonite chips	0 9 14	9 14 30	Monument
PZ-130 (AKA CB-4)	268858.769	1793080.154	1743.50	1746.66	14.5	24.5	26	35.0	6	2	SCH40 PVC	0.02	SCH40 PVC	3	12	26	Mud Rotary with HQ Diamond Core Bit	Layne Drilling	95/5 Slurry Bentonite chips Bentonite chips	0 7 12	7 12 35	Monument
PZ-131 (AKA CB-5)	268963.222	1792792.983	1756.93	1759.95	16.0	26.0	29	53.0	6	2	SCH40 PVC	0.02	SCH40 PVC	3	14	29	Mud Rotary with HQ Diamond Core Bit	Layne Drilling	95/5 Slurry Bentonite chips Bentonite chips	0 9 14	9 14 53	Monument
PZ-132	269137.994	1792682.780	1756.82	1758.38	32.0	42.0	44	55.0	8	2	SCH40 PVC	0.02	SCH40 PVC	3	29	44	Hollow Stem Auger/Water and Mud Rotary with CME and HQ Core	WDC	95/5 Slurry Bentonite chips # 60 Sand Bentonite chips	0 22 27 29	22 27 29 55	Monument
PZ-133	269142.764	1790568.969	1796.61	1798.48	40.0	60.0	62	71.0	8	2	SCH40 PVC	0.02	SCH40 PVC	3	37	62	Hollow Stem Auger/Water and Mud Rotary with CME and HQ Core	WDC	95/5 Slurry Bentonite chips # 60 Sand Bentonite chips	0 25 35 62	25 35 37 71	Monument
PZ-134	268976.178	1790784.314	1819.88	1821.59	67.0	77.0	79	90.5	8	2	SCH40 PVC	0.02	SCH40 PVC	3	64	79	Hollow Stem Auger/Water and Mud Rotary with CME and HQ Core	WDC	95/5 Slurry Bentonite chips # 60 Sand Bentonite chips	0 52 62 79	52 62 64 90.5	Monument

Notes:
* Northing and Easting Coordinates are in State Plane NAD 27, Zone 5, US Feet. Surveyed using hand-held GPS system.

Abbreviations:
amsl - above mean sea level
bgs - below ground surface
SCH - schedule
PVC - polyvinyl chloride
SST - stainless steel
TOC - top of casing

TABLE C-III
CONSTRUCTION DETAILS OF PIEZOMETER MONITORING SYSTEMS
The Boeing Company
Santa Susana Field Laboratory
Ventura County, California

Well ID	Northing (feet)	Easting (feet)	Surface Elevation (feet amsl)	TOC Elevation (feet amsl)	Depth to Screen Top (feet bgs)	Depth to Screen Bottom (feet bgs)	Total Depth (feet bgs)	Total Depth Drilled (feet bgs)	Borehole Diameter (inches)	Casing Diameter (inches)	Screen Material	Screen Slot Size (inches)	Casing Material	Filter Pack Grade	Filter Pack Top (feet bgs)	Filter Pack Bottom (feet bgs)	Drilling Method	Drill Company	Annular Seal Material	Annular Seal Top (feet bgs)	Annular Seal Bottom (feet bgs)	Wellhead Completion
PZ-135	268968.144	1790929.463	1822.22	1823.84	77.0	87.0	89	96.0	8	2	SCH40 PVC	0.02	SCH40 PVC	3	74	89	Hollow Stem Auger/Water and Mud Rotary with CME and HQ Core	WDC	95/5 Slurry Bentonite chips # 60 Sand Bentonite chips	0 62 72 89	62 72 74 96	Monument
PZ-136	268814.105	1791130.672	1811.18	1812.90	65.0	75.0	77	85.5	8	2	SCH40 PVC	0.02	SCH40 PVC	3	62	77	Hollow Stem Auger/Water and Mud Rotary with CME and HQ Core	WDC	95/5 Slurry Bentonite chips # 60 Sand Bentonite chips	0 53 60 77	53 60 62 85.5	Monument
PZ-137	268806.051	1791316.071	1808.33	1810.13	67.0	77.0	79	85.0	8	2	SCH40 PVC	0.02	SCH40 PVC	3	64	79	Hollow Stem Auger/Water and Mud Rotary with CME and HQ Core	WDC	95/5 Slurry Bentonite chips # 60 Sand Bentonite chips	0 55 62 79	55 62 64 85	Monument
PZ-138	269235.701	1789494.590	1830.37	1829.85	22.0	32.0	34	45.7	8	2	SCH40 PVC	0.02	SCH40 PVC	3	20	34	Hollow Stem Auger/Water and Mud Rotary with CME and HQ Core	WDC	95/5 Slurry Bentonite chips # 60 Sand Bentonite chips	0 13 18 34	13 18 20 45.7	Flush-mount
PZ-139	269286.834	1789390.976	1829.62	1831.91	52.0	62.0	65	74.0	8	2	SCH40 PVC	0.02	SCH40 PVC	3	52	65	Hollow Stem Auger/Water and Mud Rotary with CME and HQ Core	WDC	95/5 Slurry Bentonite chips # 60 Sand Bentonite chips	0 45 48 65	45 48 50 74	Monument
PZ-140	269204.918	1789288.167	1833.15	1832.82	52.0	62.0	65	73.0	8	2	SCH40 PVC	0.02	SCH40 PVC	3	52	65	Hollow Stem Auger/Water and Mud Rotary with CME and HQ Core	WDC	95/5 Slurry Bentonite chips # 60 Sand Bentonite chips	0 45 48 65	45 48 50 74	Monument

Notes:
* Northing and Easting Coordinates are in State Plane NAD 27, Zone 5, US Feet. Surveyed using hand-held GPS system.

Abbreviations:
amsl - above mean sea level
bgs - below ground surface
SCH - schedule
PVC - polyvinyl chloride
SST - stainless steel
TOC - top of casing

TABLE C-III
CONSTRUCTION DETAILS OF PIEZOMETER MONITORING SYSTEMS
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Well ID	Northing (feet)	Easting (feet)	Surface Elevation (feet amsl)	TOC Elevation (feet amsl)	Depth to Screen Top (feet bgs)	Depth to Screen Bottom (feet bgs)	Total Depth (feet bgs)	Total Depth Drilled (feet bgs)	Borehole Diameter (inches)	Casing Diameter (inches)	Screen Material	Screen Slot Size (inches)	Casing Material	Filter Pack Grade	Filter Pack Top (feet bgs)	Filter Pack Bottom (feet bgs)	Drilling Method	Drill Company	Annular Seal Material	Annular Seal Top (feet bgs)	Annular Seal Bottom (feet bgs)	Wellhead Completion
PZ-141	269206.908	1788741.765	1857.14	1856.58	21.0	31.0	33	40.5	8	2	SCH40 PVC	0.02	SCH40 PVC	3	18	33	Hollow Stem Auger/Water and Mud Rotary with CME and HQ Core	WDC	95/5 Slurry Bentonite chips # 60 Sand Bentonite chips	0 11 16 33	11 16 18 40.5	Flush-mount
PZ-143	269399.543	1788800.747	1847.72	1849.84	55.0	65.0	67	75.0	8	2	SCH40 PVC	0.02	SCH40 PVC	3	52	67	Hollow Stem Auger/Water and Mud Rotary with CME and HQ Core	WDC	95/5 Slurry Bentonite chips # 60 Sand Bentonite chips	0 45 50 67	45 50 52 75	Monument
PZ-144	269095.231	1788634.167	1859.63	1859.13	13.0	23.0	25	40.0	8	2	SCH40 PVC	0.02	SCH40 PVC	3	11	25	Hollow Stem Auger/Water and Mud Rotary with CME and HQ Core	WDC	95/5 Slurry Bentonite chips # 60 Sand Bentonite chips	0 7 10 25	7 10 11 40	Flush-mount
PZ-145	268857.992	1789810.694	1764.80	1766.87	20.0	30.0	32	40.0	8	2	SCH40 PVC	0.02	SCH40 PVC	3	17	32	Hollow Stem Auger/Water and Mud Rotary with CME and HQ Core	WDC	95/5 Slurry Bentonite chips # 60 Sand Bentonite chips	0 10 15 32	10 15 17 40	Monument
PZ-146	268265.857	1789233.939	1787.87	1789.82	12.0	22.0	24	37.5	8	2	SCH40 PVC	0.02	SCH40 PVC	3	10	24	Hollow Stem Auger/Water and Mud Rotary with CME and HQ Core	WDC	95/5 Slurry Bentonite chips # 60 Sand Bentonite chips	0 6 9 24	6 9 10 37.5	Monument
PZ-147	268144.179	1789214.871	1791.44	1791.24	27.0	37.0	39	50.0	8	2	SCH40 PVC	0.02	SCH40 PVC	3	24	39	Hollow Stem Auger/Water and Mud Rotary with CME and HQ Core	WDC	95/5 Slurry Bentonite chips # 60 Sand Bentonite chips	0 17 22 39	17 22 24 50	Flush-mount
PZ-148	268103.787	1789185.773	1791.23	1794.71	19.0	29.0	31	39.7	8	2	SCH40 PVC	0.02	SCH40 PVC	3	17	31	Hollow Stem Auger/Water and Mud Rotary with CME and HQ Core	WDC	95/5 Slurry Bentonite chips # 60 Sand Bentonite chips	0 10 15 31	10 15 17 39.7	Monument

Notes:
* Northing and Easting Coordinates are in State Plane NAD 27, Zone 5, US Feet. Surveyed using hand-held GPS system.

Abbreviations:

amsl - above mean sea level	SCH - schedule	SST - stainless steel
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APPENDIX D

QUALITY ASSURANCE ASSESSMENT

APPENDIX D
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1. OVERVIEW

Field and laboratory data were reviewed for consistency with the procedures outlined in the *Groundwater Monitoring, Quality Assurance Project Plan, Santa Susana Field Laboratory* (GWRC, 1995c) following each 2008 quarterly groundwater sampling event. Results of the review are discussed in the following sections. The analytical data were validated pursuant to the process summarized in Section 3.2 of this Appendix.

2. INTRODUCTION

2.1 Quality Assurance/Quality Control (QA/QC) Procedures

Following each quarterly groundwater sampling event, field and laboratory data are reviewed for consistency with procedures outlined in the *Groundwater Monitoring, Quality Assurance Project Plan, Santa Susana Field Laboratory* (GWRC, 1995c). As the project develops, it is anticipated that the quality assurance assessment conducted following each quarterly event may be modified. The current procedures include reviewing field forms and documentation and evaluating whether field data were complete. Analytical data were reviewed by the laboratory for precision, accuracy, representativeness, and comparability as part of its standard Quality Assurance/Quality Control (QA/QC) program. QA/QC data were reported as part of the laboratory data package. Analytical data also were reviewed by Haley & Aldrich for data representativeness, reproducibility, completeness, erroneous data, and discrepancies.

Laboratories used during the year included

Laboratory	Abbreviation	Location
E.S. Babcock & Sons Laboratories	Babcock	Riverside, California
Curtis & Tompkins, Ltd.	C&T	Berkeley, California
Eberline Services	Eberline	Richmond, California
G.G. Hatch Laboratories	GG Hatch	Ottawa, Ontario, Canada
Lancaster Laboratories	Lancaster	Lancaster, Pennsylvania
TestAmerica-Denver	TA-Denver	Arvada, Colorado
TestAmerica-Knoxville	TA-Knoxville	Knoxville, Tennessee
Truesdail Laboratories, Inc.	Truesdail	Tustin, California
Weck Laboratories	Weck	City of Industry, California

Lancaster Laboratories of Lancaster, Pennsylvania served as the primary laboratory for all analyses except for the following:

Primary Laboratory	Analytes	Quarter(s)
C&T	Hexavalent chromium	1,2
Eberline	Radiochemistry	1,2,3,4
GG Hatch	Oxygen-18 and deuterium	1,2,3,4
TA-Denver	Appendix IX	2
TA-Knoxville	Dioxins and Furans	1,2,3,4
Truesdail	Hydrazines	1,2,3,4
Weck	Hexavalent chromium	3
	n-Nitrosodimethylamine	1,2,3,4
	n-Nitrosodiethylamine, n-Nitrosodi-n-propylamine	2

Split samples were analyzed by the laboratories listed below.

Split Laboratory	Analytes	Quarter(s)
Babcock	n-Nitrosodimethylamine, n-Nitrosodiethylamine, n-Nitrosodi-n-propylamine	2
C&T	VOCs, perchlorate	1,2
TA-Denver	1,2-Dibromo-3-chloropropane (DBCP)	1
	Chlorinated pesticides	2
	VOCs, perchlorate	3,4
	n-Nitrosodimethylamine	4

Haley & Aldrich field and analytical data reviews are summarized in Section 3.

Completeness values presented in this summary were calculated using the following equation:

$$C = \left[1 - \frac{\text{number of incomplete results}}{\text{total number requested}} \right] \times 100$$

3. QA/QC EVALUATION

3.1 Field Data

3.1.1 Pre-Sampling Water Levels

During each quarterly sampling event, facility wells, three private off-site wells, and a number of piezometers were scheduled for water level monitoring prior to sampling. Monitoring attempts are summarized below. During the first quarter, two wells equipped with FLUTe systems were not monitored because the dataloggers had been removed. During the second quarter, four wells were not monitored because the datalogger had been removed (1 well), and monitoring was not attempted (3 wells). During the third quarter, two wells were not monitored because the datalogger had been removed (1 well), and water levels were not collected from the Westbay system (1 well). During the fourth quarter, one well was not monitored because the datalogger had been removed.

Water Level Monitoring	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
Number of locations scheduled	289	322	297	289
Number of locations monitored	287	318	295	288
Completeness value	99%	99%	99%	99%

Of the locations monitored, water levels measurements were not obtained at some locations due to inaccessibility, well obstructions, equipment malfunction, or borehole collapse.

3.1.2 Groundwater Sample Collection

During each quarterly sampling event, the number of wells and piezometers scheduled for sampling ranged from 171 to 239. Of the locations scheduled for sampling, the percentage sampled each quarter ranged from 51% to 76%. Samples were not collected at a number of locations because the wells or piezometers were dry, contained inadequate water for sampling purposes, were inaccessible, or the well equipment malfunctioned.

Comparing the number of wells that could be sampled versus the schedule, the field completeness value for water sample collection during 2008 was 100%.

3.1.3 QA/QC Sample Collection

Duplicate samples, split samples, field blanks, and trip blanks comprise the QA/QC sample collection program. The QA/QC target for duplicate samples is 10% of sampled wells. Split samples are scheduled to be collected from wells requiring verification sampling and from randomly selected wells, and typically comprise 5% of all sampled wells. Field blanks are scheduled to be collected each day that volatile organic samples are collected. Trip blanks are to be included with each shipment of VOC and n-nitrosodimethylamine (NDMA) samples.

Results of QA/QC sample collection during 2008 are summarized below.

QA/QC Sample Type	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
Percent of samples duplicated	14%	20%	20%	36%
Percent of samples split	14%	22%	10%	25%
Field blank completeness value	82%	100%	87%	95%
Trip blank completeness value	78%	100%	100%	100%

Because additional QA/QC samples are collected for follow-up sampling, NDMA and perchlorate, the percentages of duplicate and split samples collected were higher than the targeted 10% and 5%, respectively.

3.1.4 Water Quality Parameter Measurements

Each water quality parameter (pH, temperature, electrical conductivity, and turbidity) is scheduled to be measured at least three times before sample collection. At 16 wells, one or more field parameters were not measured three times prior to sampling during the year. The quarterly completeness value for field parameters measured at least three times prior to sample collection ranged from 96% to 97%.

3.2 Analytical Data

All laboratories were certified by the California Department of Public Health Environmental Laboratory Accreditation Program with the following exception:

- Curtis & Tompkins was not certified to perform hexavalent chromium analysis by EPA Method 7199.

3.2.1 Comparison with Historical Water Quality Data

Some analyte concentrations increased or decreased in groundwater samples collected during the year with respect to prior results, but most values were within the range of historical data. A summary of results is included in Section 2.2 of this report.

During the year, the laboratories were requested to confirm suspect results.

Results of verification and follow-up sampling conducted during the year are summarized in Section 2.2.5 of this report.

Detections of carbon disulfide reported below the reporting limit by Lancaster Laboratories, Inc. appeared to be false positives due to a laboratory process issue (Lancaster, 2007).

Spiked pesticide samples prepared by Environmental Resource Associates were submitted as blind samples to Lancaster Laboratories. Data validation by MECX of the spiked samples and the groundwater samples for shallow wells SH-02, SH-03, SH-04, SH-05, SH-08, and SH-09 determined that the chlorinated pesticides were reported correctly, except for results that MECX qualified as tentatively identified at approximate concentrations (NJ). Verification sampling and analysis for chlorinated pesticides at SH-02, SH-03, SH-04, SH-05, SH-08, and SH-09 could not be collected during subsequent quarters because these wells had insufficient water for sampling. Verification samples (primary, duplicate, split, field blank, and equipment rinsate) will be rescheduled for the first quarter 2009 to determine if chlorinated pesticide detections

reported in shallow well groundwater samples during the year are repeatable in consecutive groundwater samples.

3.2.2 Lab Performance Comparison

Results of the split sample analyses are presented in Table D-I. Replicate percent differences (RPDs) were calculated for each analyte detected by both the primary and split laboratories if the analyte concentration exceeded the product of five times the method detection limit (MDL) times the dilution factor. RPD values calculated for the 2008 split sample analyses ranged from 0% to 176%.

$$RPD = \left| (X_1 - X_2)/X_{ave} \right| \times 100$$

X_1 = primary concentration observed;
X_2 = split concentration observed; and
X_{ave} = average concentration = $(X_1 + X_2) / 2$

3.2.3 Field Duplicate Sample Precision

The precision of analytical results for field duplicate samples is measured by RPD calculations (Table D-II). RPD values calculated for the 2008 duplicate samples ranged from 0% to 164%.

3.2.4 Data Representativeness, Reproducibility, and Completeness

Data representativeness, reproducibility, and completeness of 2008 results were evaluated by verifying the following:

- all locations were sampled as scheduled,
- samples were properly collected and preserved (if required),
- procedures to maintain the integrity of samples during shipment were followed,
- sample dilutions were properly conducted,
- chain-of-custody records were complete when submitted or changed appropriately, and
- laboratory QA/QC data were obtained for each sample submitted.

All locations were sampled as scheduled except at locations where wells contained insufficient water volume, where equipment problems were encountered, or where wells were inaccessible. All samples were preserved (where necessary) and shipped following acceptable procedures. Samples from wells with prior TCE concentrations exceeding 3,000 μg/L were segregated during storage and shipment.

A few chain-of-custody forms were not completed satisfactorily. Because the laboratories were notified of the deficiencies immediately following sample submission, all samples submitted were identified correctly and analyzed according to the monitoring schedule.

All samples were received appropriately, identified correctly, and analyzed according to the monitoring requirements.

3.2.5 Contract-Required Minimum Detectable Activity

Project laboratory analysis technical specifications, including Minimum Detectable Activities (MDAs), have been developed to help insure collection of high quality data and to be consistent with EPA Drinking Water regulations (Federal Register, 2000). Some data do not meet the MDA requirements (see below). Non-attainment of the MDA technical specifications is due in part to matrix conditions and in part to limitations in the prescribed analytical methods. Matrix conditions, including concentrations of dissolved and suspended solids, impact the homogeneity of the samples and limit method counting efficiency. Additionally, prescribed analytical methods call for specified sample volumes and counting times that further limit the ability to attain the project MDAs.

During the year, the radiochemistry laboratory was able to meet the contract-required MDAs for most radionuclides. The contract-required MDAs are equal to or less than detection limits prescribed for drinking water by the EPA Drinking Water regulations (Federal Register, 2000). In cases where the contract-required MDAs were not met, the positive results determined for the radioisotopes exceeded both the required and obtained MDAs.

3.2.6 Data Usability Summary

Analytical results for groundwater samples, trip blank samples, field blank samples, and site specific matrix spike and matrix spike duplicate samples (MS/MSD) were reviewed to evaluate the data usability. These data were assessed in accordance with guidance from the EPA "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review" (EPA540/R-99/008, October 1999), "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review" (EPA 540-R-01-008, July 2002), and the EPA Method specific protocol criteria, where applicable. Radiochemical data were assessed in accordance with protocols established for the U.S. Department of Energy, "Evaluation of Radiochemical Data" (Paar & Porterfield, 1997).

The following items/criteria applicable to the QA/QC data and sample analysis data listed above were reviewed:

- Chain of Custody Procedures
- Preservation and Analytical Holding Time Compliance
- Method Blank, Trip Blank, and Field Blank Sample Analyses
- Surrogate Compound Recoveries
- Laboratory Control Sample Analyses
- Matrix Spike Sample Analyses
- Sample Data Reporting Procedures
- Laboratory Data Qualification Procedures

3.2.6.1 Chain of Custody Procedures

Chain of custody documentation was completed by Haley & Aldrich personnel during the performance of sampling activities conducted at SSFL. The external chain of custody documents were completed appropriately upon sample transfer to analytical laboratory personnel.

A review of the chain of custody documents indicated that the sample custody remained intact through the analytical process and the reported results are representative of the samples collected at SSFL. The chain of custody documents are provided with each laboratory report.

3.2.6.2 Preservation/Holding Time Compliance

Preservation criteria for VOC analysis recommend that samples that have not been maintained at 4°C ± 2°C and preserved to a pH of 2 or below should be analyzed within seven days of sample collection. VOC samples that meet the preservation criteria should be analyzed within 14 days of sample collection. VOC and fuel samples should not contain headspace.

During the year, some volatile organic, inorganics, general mineral, semi-volatile organic, and surfactant analyses exceeded the holding time limits. For samples with holding time violations, non-detect results were qualified with a "UJ" and detects were qualified with a "J" indicating that the results were estimated (Table D-III).

During the fourth quarter, some NDMA samples were collected with sodium thiosulfate pre-preserved bottles provided by Weck Laboratories. Normally NDMA samples are collected without preservation. To verify that analytical results of preserved and unpreserved samples under method 1625M were comparable, two sets of preserved and unpreserved primary and trip blank samples were collected at well RD-49C. Analytical results for NDMA in preserved and unpreserved samples were comparable:

			NDMA Concentration (µg/L)	
Well	Date	Sample Type	Preserved	Unpreserved
RD-49C	11/10/08	Primary	0.0058 U	0.0062 U
		Trip blank	0.005 U	0.005 U

3.2.6.3 Blank Sample Analyses

Some metals, dioxins and furans, VOCs, SVOCs, fuel hydrocarbons, and naturally occurring constituents of concern were detected in some method blank samples prepared and analyzed concurrently with the project samples. These results were flagged with "B" by the laboratory indicating that the concentration of the analyte within the sample was less than the method-specific factor times the amount of the analyte detected in the associated method blank. For these samples, the reported analyte result was validated and flagged with a "U" indicating that the concentration of the analyte detected in the sample was most likely due to laboratory contamination and was not indicative of the field sample conditions (Table D-IV).

VOC trip blank samples were provided by Curtis & Tompkins, TestAmerica-Denver, and Lancaster Laboratories. NDMA trip blank samples were provided by Weck Laboratories and TestAmerica-Denver. Trip blank samples accompanied the project sample containers to and from the project site to assess possible field and/or container contamination.

Method blank samples were prepared by the analytical laboratories and analyzed concurrently with the project samples to assess possible laboratory contamination.

Field blank samples were prepared at the well locations with water provided by the laboratories. ASTM Type II water was used for VOCs. Nano-pure water passed through UV filtration was used for NDMA.

Several target analytes were detected in some field blank samples, trip blank samples, and in method blank samples prepared and analyzed with the project samples. Table D-IV provides a list of the target analytes detected in the project field blanks, trip blanks, and method blank samples which required corrective action; the associated project samples; and the recommended corrective action for the presentation of the sample analysis results. Target analytes detected in blank samples that did not require corrective action are not included in the table.

In accordance with cited EPA guidelines, sample results of analyses should be reported as detected unless the concentration of the analyte in the project sample is less than or equal to the amount in any blank multiplied by a method-specific factor:

- For VOCs, the factor is 10 times (10X) for the common laboratory contaminants (methylene chloride, acetone, methyl ethyl ketone, cyclohexane), and 5 times (5X) the blank sample concentration for other target analytes.
- For SVOCs, the factor is 10X for common laboratory contaminants such as phthalate esters and 5X for other target analytes.
- For dioxins and furans, fuel hydrocarbons, and general mineral analytes, the factor is 5X.
- For metal analytes, the factor is 10X.
- For formaldehyde, inorganics, and ammonia, the factor is 5X.

Blank samples are not always analyzed at the same dilution as the associated samples. For diluted samples, concentrations are divided by the dilution factor when applying the 5X or 10X rules, such that a comparison of the total amount of analyte is actually made. Sample results that were qualified with a "U" flag as a result of detection in blank samples are listed in Table D-IV.

3.2.6.4 Surrogate Recovery Limit Exceedance

To confirm the efficiency of the purge and trap sample preparation procedure by EPA Methods 8260B and 8260SIM, and the extraction and concentration process by EPA Methods 8270C and 8082, surrogate compounds were added to each sample prior to analysis. The surrogate compound recovery calculated in percentage is presented on each laboratory report for the project sample

analyses. The calculated recovery of surrogate compounds for each sample fell within method specific acceptance criteria except for specific SVOCs, VOCs, and PCBs in some samples (Table D-V).

If surrogate recoveries were less than the lower acceptance limit, but greater than 10%, the reported non-detects in the associated samples were qualified with a "UJ" as estimated non-detect. If surrogate recoveries were less than 10%, the reported non-detects in the associated samples were qualified with an "R" indicating that the results were rejected because the presence or absence of the analyte could not be verified. Where the surrogate recovery exceeded the limits for positive results, the results in the associated samples were qualified with a "J" indicating that the results were estimated.

When surrogate recoveries are not within the acceptable limits, the laboratory is required to reanalyze the sample and report the reanalyzed sample. The surrogate recoveries were within acceptable limits in the reanalysis of the first quarter RS-16 SVOC sample, confirming that the non-conformance surrogate recovery was due to laboratory deficiencies (e.g., SVOC surrogate spikes were not added). However, the reanalysis of the RS-16 sample was outside holding time and, therefore, the original non-detected SVOC results were reported and were qualified "UJ" as estimated non-detects.

3.2.6.5 Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analyses

Analytical precision and accuracy were evaluated based on Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD) analyses performed concurrently with the project samples. LCS/LCSD analyses are prepared by the addition of a known amount of each target analyte into laboratory pure water using a traceable reference material independent of the instrument calibration materials. LCS/LCSD samples were analyzed to confirm the precision and accuracy of the analytical system calibration.

The percent recovery calculated for each target analyte fell within laboratory specific criteria indicating that the analyses were conducted with acceptable analytical accuracy and precision with some exceptions (Table D-VI).

During the year, LCS/LCSD percent recoveries were beyond the percent recovery criteria ranges for some SVOCs, general minerals, and radionuclides in some LCS/LCSD samples. The results in the associated samples were qualified with a "J" indicating that the results were estimated if the percent recovery exceeded the acceptance limits for positive results. The non-detected results in the associated samples were qualified with an "R" indicating that the results were rejected because the presence or absence of the analyte could not be verified.

3.2.6.6 Matrix Spike/Matrix Spike Duplicate (MS/MSD) Sample Analyses

Analytical precision and accuracy were evaluated based on the Matrix Spike and Matrix Spike Duplicate (MS/MSD) analyses performed on project samples from each sample delivery group (SDG). After the addition of a known amount

of each target analyte to the sample matrix, the sample was analyzed to confirm the ability of the analytical systems to identify these analytes within the sample matrix.

Due to limitation of sample volume, some SDGs contained reports of MS/MSD analyses performed on sample matrices from non-project related samples. However, the analysis of these samples concurrently with the project samples provides valuable information on the accuracy of the analyses performed.

The percent recovery calculated for each target analyte fell within laboratory specific criteria with exceptions for some inorganics, metals, perchlorate, SVOCs, and VOCs in some MS/MSD samples (Table D-VI). The results in the associated samples were qualified with a "J" indicating that the results were estimated if the percent recovery exceeded the acceptance limits for positive results. If the percent recoveries for non-detects exceeded the lower limits, then the results were qualified with a "UJ" as estimated non-detect.

3.2.6.7 Data Qualification of Samples by MECX

Level IV validation of specific samples was performed by MECX, LP of Aurora, Colorado and by Haley & Aldrich. Results validated by MECX and requiring a change in the data qualifier are summarized in Table D-VII. Results validated by Haley & Aldrich and requiring a change in the data qualifier are summarized in Tables D-III through D-VI and D-VIII.

3.2.6.8 Data Qualification Due to Miscellaneous Issues

Data validation identified additional analytical issues (Table D-VIII):

- Methyl ethyl ketone reported in the RS-30 groundwater sample collected during the second quarter was qualified "U" as non-detected because the sample ion spectra did not match the reference spectra.
- Carbon disulfide reported in the RD-61 duplicate groundwater sample collected during the second quarter was qualified "U" as non-detected because the integration of noise in the analysis resulted in a false positive.
- Methyl ethyl ketone reported in the HAR-11 groundwater sample and chlorobenzene reported in the RD-23 groundwater sample collected during the third quarter were qualified "R" as rejected because the sample ion spectra did not match the reference spectra.
- Iron and manganese reported in the PZ-109 groundwater sample collected during the fourth quarter were qualified "J" as estimated values because the duplicate relative percent difference exceeded the acceptance criteria.
- cis-1,2-DCE, trans-1,2-DCE, and TCE reported in the WS-06 groundwater sample collected during the fourth quarter were qualified "J" as estimated value because the concentration exceeded the calibration range of the instrument.

3.2.6.9 Sample Data Reporting

Laboratory analytical reports contain laboratory specific data qualifiers. When an analysis was performed without dilution, the reporting limit was based on the most recent MDL study conducted by the contract laboratory. The reporting limit values for the dilution analyses were adjusted for the level of dilution performed. Values presented for target analytes detected at concentrations below the reporting limit but above the MDL were flagged with a "J" as estimated values. No corrective action is recommended.

3.2.6.10 Data Qualifiers

The use of the data qualifiers is intended to aid users in their interpretation of the sample results. Laboratory specific data qualifiers were assigned by the laboratories to the reported results in accordance with each laboratory's standard operating procedures. However, some data qualifiers used by the laboratories do not correspond with standard EPA guidance as referenced in this document. The data qualifiers recommended above in accordance with the EPA guidelines should preclude the use of the laboratory specific qualifiers so that comparability of the reported results can be achieved if future analyses are performed at other laboratory facilities.

3.2.6.11 Summary

The results presented in each laboratory report were found to be compliant with the data quality objectives (DQOs) for the project and usable, with the exceptions noted above. Based on this review, the data usability is 100%, with the exceptions noted above.

TABLE D-I
SUMMARY OF 2008 SPLIT SAMPLE RESULTS
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well ID	Date	Method	Constituent	Sample Result (ug/L) Primary	Split	RPD
Shallow Wells						
HAR-04	02/07/08	8260B	1,1,1-Trichloroethane	2 J	2.2	NA
			Benzene	0.5 U	0.2 J	---
			Chloroform	0.8 U	0.2 J	---
			cis-1,2-Dichloroethene	6	5.7	5
			Tetrachloroethene	0.8 U	0.2 J	---
			Trichloroethene	330	330	0
HAR-11	12/02/08	8260B	1,1,2-Trichloroethane	0.1 J	0.32 U	---
			1,2-Dichloroethane	0.3 J	0.13 U	---
			Acetone	3.8 J	1.9 U	---
			Chloroethane	0.4 J	0.53 J	NA
			Chloroform	0.2 J	0.17 J	NA
			cis-1,2-Dichloroethene	2.1	2	5
			Ethylbenzene	0.1 J	0.16 U	---
			Methyl ethyl ketone	1.2 J	1.8 U	---
			Methylene chloride	0.4 U	0.55 U	---
			m-Xylene & p-Xylene	0.4 J	0.43 J	NA
			o-Xylene	0.4 J	0.42 J	NA
			trans-1,2-Dichloroethene	0.1 J	0.15 U	---
			Trichloroethene	1.5	1.3	14
HAR-15	11/03/08	8260B	cis-1,2-Dichloroethene	0.9	0.95 J	5
			Trichloroethene	2.3	2.2	4
SH-02	04/30/08	8081A	Heptachlor	0.003 U	0.014 J	---
SH-03	05/02/08	8081A	4,4'-DDE	0.011 J	0.0073 U	---
			alpha-BHC	0.0034 J	0.0051 U	---
			beta-BHC	0.0039 U	0.0086 J	---
			delta-BHC	0.01	0.0056 U	---
			Endrin	0.0046 J	0.0077 U	---
			gamma-BHC	0.0019 U	0.0095 J	---
SH-04	04/23/08	8081A	4,4'-DDD	0.0038 U	0.013 J	---
			4,4'-DDE	0.0052 J	0.023 J	NA
			Aldrin	0.0038 U	0.0072 J	---
			delta-BHC	0.0069 J	0.0056 U	---
			Endosulfan II	0.0038 U	0.0076 J	---
			Heptachlor	0.0093 J	0.015 J	NA
SH-05	05/02/08	8081A	beta-BHC	0.0098 J	0.0085 U	---
SH-08	05/02/08	8081A	4,4'-DDD	0.0048 J	0.0075 U	---
			Aldrin	0.0055 J	0.0057 U	---
			alpha-BHC	0.0027 J	0.0051 U	---
			gamma-BHC	0.0019 U	0.012 J	---
			Heptachlor	0.0029 U	0.01 J	---
SH-09	05/02/08	8081A	gamma-BHC	0.0039 U	0.013 J	---
Chatsworth Formation Wells						
HAR-07	12/03/08	1625M	n-Nitrosodimethylamine	0.036	0.03	18
HAR-08	02/27/08	314.0	Perchlorate	0.7 U	0.47 U	---
	05/14/08	521	n-Nitrosodi-n-propylamine	0.002 U	0.007 UJ	---
			n-Nitrosodiethylamine	0.002 U	0.005 UJ	---
			n-Nitrosodimethylamine	0.012	0.0074 J	47
	12/03/08	1625M	n-Nitrosodimethylamine	0.023	0.018	24
		8260B	cis-1,2-Dichloroethene	20	16	22
			trans-1,2-Dichloroethene	3.3	2.6	24
			Trichloroethene	13	11	17
			Vinyl chloride	3.6	4.6	24

See last page of table for notes and abbreviations.

TABLE D-I
SUMMARY OF 2008 SPLIT SAMPLE RESULTS
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well ID	Date	Method	Constituent	Sample Result (ug/L)		RPD
				Primary	Split	
HAR-16	03/05/08	504.1	1,2-Dibromo-3-chloropropane	0.12 U	0.0068 U	---
	04/23/08	521	n-Nitrosodi-n-propylamine	0.002 U	3.5 UJ	---
			n-Nitrosodiethylamine	0.002 U	2.5 UJ	---
			n-Nitrosodimethylamine	0.44	6.8 J	176
HAR-18	12/01/08	8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	520	590	NA
			1,1-Dichloroethane	2.6 J	2.6 J	NA
			1,1-Dichloroethene	24	16	NA
			Acetone	32 J	9.5 U	---
			Chloroform	1.1 J	1.2 J	NA
			cis-1,2-Dichloroethene	710	600	NA
			Methylene chloride	2 U	1.7 J	---
			Tetrachloroethene	2.9 J	2.7 J	NA
			trans-1,2-Dichloroethene	8.4	5.7	NA
			Trichloroethene	1400	1400	NA
			Vinyl chloride	27	21	NA
HAR-20	03/11/08	8260B	cis-1,2-Dichloroethene	120	98	20
			trans-1,2-Dichloroethene	9	7	25
			Trichloroethene	250	200	22
			Vinyl chloride	1	0.7 J	NA
HAR-24	02/08/08	314.0	Perchlorate	179	210	16
	08/11/08	314.0	Perchlorate	189 J	190	NA
HAR-25	08/11/08	314.0	Perchlorate	27.6 J	31	12
OS-03	05/15/08	314.0	Perchlorate	0.7 U	0.64 U	---
OS-17	05/20/08	8260B	Carbon Disulfide	0.4 U	0.2 J	---
	08/12/08	8260B	VOCs	None detected	None detected	---
RD-02	05/08/08	8260B	1,1-Dichloroethene	1.3 J	1.5 J	14
			cis-1,2-Dichloroethene	340	390 J	14
			trans-1,2-Dichloroethene	25	28 J	11
			Trichloroethene	250	280 J	11
			Vinyl chloride	1.9 J	1.7 J	11
RD-04	02/27/08	8260B	1,1-Dichloroethene	1 J	2 U	---
			Acetone	6 U	32 J,L	---
			cis-1,2-Dichloroethene	160	150	6
			Toluene	0.7 U	25 L	---
			trans-1,2-Dichloroethene	3 J	3.7 J	NA
			Trichloroethene	1400	1400	0
	10/29/08	8260B	1,1-Dichloroethene	5 U	1.5 J	---
			cis-1,2-Dichloroethene	170	190	NA
			trans-1,2-Dichloroethene	5 U	3.4 J	---
			Trichloroethene	1400	1800	NA
RD-05B	02/18/08	8260B	Carbon Disulfide	0.1 J,L	0.1 U	---
			Chloroethane	0.1 J	0.2 U	---
	05/16/08	8260B	Carbon Disulfide	0.6	0.6 J	NA
	08/18/08	8260B	VOCs	None detected	None detected	---
RD-05C	02/14/08	8260B	Carbon Disulfide	0.4 U	0.3 J	---
	11/05/08	8260B	VOCs	None detected	None detected	---
RD-06	05/14/08	8260B	Carbon Disulfide	0.4 J	0.1 U	---
			Trichloroethene	0.1 J	0.1 U	---
	08/28/08	8260B	VOCs	None detected	None detected	---
RD-09	10/28/08	8260B	1,1-Dichloroethene	1 U	0.56 J	---
			cis-1,2-Dichloroethene	71	80	12
			trans-1,2-Dichloroethene	15	19	NA
			Trichloroethene	330	440	NA

See last page of table for notes and abbreviations.

TABLE D-I
SUMMARY OF 2008 SPLIT SAMPLE RESULTS
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well ID	Date	Method	Constituent	Sample Result (ug/L)		RPD
				Primary	Split	
RD-10	05/06/08	314.0	Perchlorate	51.6	70	30
	10/29/08	314.0	Perchlorate	57.2	63	10
		8260B	1,1-Dichloroethene	0.1 J	0.14 U	---
			cis-1,2-Dichloroethene	10	10	0
			trans-1,2-Dichloroethene	0.7	0.65 J	NA
			Trichloroethene	13	13	0
			Vinyl chloride	0.1 J	0.4 U	---
RD-16	05/09/08	8260B	VOCs	None detected	None detected	---
	11/11/08	8260B	Carbon Disulfide	0.4 J	0.45 U	---
RD-19	05/01/08	8260B	VOCs	None detected	None detected	---
RD-32	02/19/08	314.0	Perchlorate	0.7 U	0.47 U	---
	11/10/08	8015M	GRO	None detected	None detected	---
		8260B	VOCs	None detected	None detected	---
RD-36D	05/15/08	8260B	Acetone	5.9	1 UJ	---
			Chloroethane	0.1 J	0.3 UJ	---
			Trichloroethene	0.3 J	0.4 J	---
	08/15/08	8260B	1,1-Dichloroethene	0.2 J	0.14 U	---
			cis-1,2-Dichloroethene	2	0.15 U	---
			Tetrachloroethene	0.2 J	0.2 U	---
			trans-1,2-Dichloroethene	0.3 J	0.15 U	---
			Trichloroethene	3.9	0.35 J	NA
RD-37	09/09/08	8260B	Acetone	3 U	2.4 J	---
			Trichloroethene	0.1 J	0.16 U	---
RD-38B	05/20/08	8260B	VOCs	None detected	None detected	---
RD-43A	02/14/08	8260B	VOCs	None detected	None detected	---
RD-43B	02/14/08	314.0	Perchlorate	0.7 U	0.47 U	---
	08/13/08	8260B	VOCs	None detected	None detected	---
RD-43C	02/15/08	8260B	VOCs	None detected	None detected	---
	11/06/08	8260B	VOCs	None detected	None detected	---
RD-44	05/07/08	521	n-Nitrosodimethylamine	0.002 U	0.002 U	---
	10/30/08	1625M	n-Nitrosodimethylamine	0.005 U	0.0048 U	---
RD-45B	02/18/08	8260B	cis-1,2-Dichloroethene	24	32	29
			trans-1,2-Dichloroethene	2 J	2.5	NA
			Trichloroethene	2	1.3	NA
			Vinyl chloride	0.5 U	0.1 J	---
RD-48B	08/13/08	8260B	VOCs	None detected	None detected	---
RD-48C	02/26/08	8260B	Carbon Disulfide	0.4 J,L	0.3 J	NA
RD-49A	03/11/08	314.0	Perchlorate	0.7 U	0.47 U	---
RD-49C	11/10/08	314.0	Perchlorate	0.7 U	0.28 U	---
RD-51C	05/07/08	314.0	Perchlorate	0.7 U	0.64 U	---
		8260B	Acetone	3 U	1.6 J,L	---
			Carbon Disulfide	0.4 U	0.1 J	---
			Trichloroethene	0.1 J	0.1 U	---
	08/26/08	8260B	Trichloroethene	0.1 J	0.16 U	---
	11/03/08	1625M	n-Nitrosodimethylamine	0.005 U	0.0048 U	---
RD-52B	02/20/08	314.0	Perchlorate	0.7 U	0.47 U	---
RD-52C	02/20/08	8260B	Carbon Disulfide	0.3 J,L	0.3 J	NA
RD-55A	05/06/08	314.0	Perchlorate	0.7 U	0.64 U	---
RD-55B	11/20/08	8260B	1,1-Dichloroethene	0.3 J	0.18 J	NA
			Acetone	5 J	5.7 J	NA
			cis-1,2-Dichloroethene	17	13	27
			m-Xylene & p-Xylene	0.2 J	0.34 U	---
			o-Xylene	0.1 J	0.19 U	---
			Toluene	0.3 J	0.17 U	---
			trans-1,2-Dichloroethene	0.3 J	0.32 J	NA
			Trichloroethene	24	23	NA
			Vinyl chloride	0.1 J	0.4 U	---

See last page of table for notes and abbreviations.

TABLE D-I
SUMMARY OF 2008 SPLIT SAMPLE RESULTS
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well ID	Date	Method	Constituent	Sample Result (ug/L)		RPD
				Primary	Split	
RD-58A	02/18/08	8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	5 J	2.5	NA
			Chloroform	0.8 U	0.1 J	---
			cis-1,2-Dichloroethene	16	12	29
			Trichloroethene	130	100	26
RD-58B	05/06/08	314.0	Perchlorate	0.7 U	0.64 U	---
RD-59C	05/20/08	314.0	Perchlorate	0.7 U	0.64 U	---
RD-61	05/01/08	8260B	Carbon Disulfide	0.4 U	0.2 J	---
	08/21/08	8260B	VOCs	None detected	None detected	---
RD-62	02/18/08	8260B	Carbon Disulfide	0.1 J,L	0.1 U	---
	11/12/08	8260B	VOCs	None detected	None detected	---
RD-67	05/19/08	521	n-Nitrosodimethylamine	0.002 U	0.002 UJ	---
	11/19/08	8260B	VOCs	None detected	None detected	---
RD-68A	11/13/08	8260B	Acetone	3.2 J	1.9 U	---
			Benzene	0.1 U	0.17 J	---
RD-68B	02/21/08	8260B	cis-1,2-Dichloroethene	0.1 J	0.1 U	---
	08/14/08	8260B	cis-1,2-Dichloroethene	0.1 U	0.17 J	---
RD-70	03/10/08	8260B	Carbon Disulfide	0.1 J,L	0.1 J	NA
	08/21/08	8260B	Vinyl Chloride	0.1 J	0.4 U	---
RD-73	09/05/08	314.0	Perchlorate	90	120	NA
RD-78	03/12/08	314.0	Perchlorate	0.7 U	0.47 U	---
WS-04A	02/26/08	314.0	Perchlorate	0.7 U	0.47 U	---
WS-05	02/26/08	314.0	Perchlorate	6.4	0.47 U	---
	05/06/08	314.0	Perchlorate	0.7 UJ	6.4 U	---
	11/03/08	314.0	Perchlorate	0.7 U	0.28 U	---
WS-06	02/28/08	8260B	1,1-Dichloroethene	0.3 J	0.2 J	NA
			cis-1,2-Dichloroethene	100	110	10
			trans-1,2-Dichloroethene	11	7.4	39
			Trichloroethene	4.4	3.8	15
			Vinyl chloride	5.6	3.8	38
WS-09	10/29/08	8260B	1,1-Dichloroethene	50 U	11 J	---
			cis-1,2-Dichloroethene	790	950	NA
			trans-1,2-Dichloroethene	50 U	19 J	---
			Trichloroethene	14000	18000	NA
WS-09A	05/15/08	8260B	Carbon Disulfide	0.4 U	0.2 J	---
			cis-1,2-Dichloroethene	19	20	5
			trans-1,2-Dichloroethene	1	0.6	50
			Trichloroethene	6.2	6.5	5

See last page of table for notes and abbreviations.

1. 314.0 = EPA method 314.0 for perchlorate.

2. 504.1 = EPA method 504.1 for 1,2-Dibromo-3-chloropropane.

3. 521 = EPA method 521 for n-Nitrosodi-n-propylamine, n-Nitrosodiethylamine, and n-Nitrosodimethylamine.

4. 1625M = EPA method 1625M for n-Nitrosodimethylamine.

5. 8081A = EPA method 8081A for chlorinated pesticides.

6. 8260B = EPA method 8260B for volatile organic compounds (VOCs).

7. ug/L = Micrograms per liter.

8. RPD = Replicate percent difference. RPDs were calculated only if the detected concentration exceeded the product of five times the method detection limit times the dilution factor.

   $|((X_1 - X_2)/X_{ave})| \times 100$
   X_1 = primary concentration observed;
   X_2 = split concentration observed; and
   X_{ave} = average concentration = $(X_1 + X_2) / 2$

9. NA = Not applicable. An RPD calculation is not valid since at least one of the laboratories reported a detected concentration less than the product of five times the method detection limit times the dilution factor.

10. (---) = Not applicable. Constituent not detected in one or both samples.

11. J = Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL).

12. L = Laboratory contaminant.

13. U = Not detected.

14. UJ = Not detected. Estimated detection limit as a result of analytical quality control deficiencies.

15. Primary lab = Lancaster Laboratories of Lancaster, Pennsylvania for EPA methods 314.0, 8081A, and 8260B.
    Weck Laboratories of City of Industry, California for EPA methods 521 and 1625M.

16. Split lab = Curtis & Tompkins, Ltd. of Berkeley, California served as the split lab for EPA methods 314.0 and 8260B during the first and second quarters.
    TestAmerica-Denver, Colorado served as the split lab for EPA methods 504.1 during the first quarter; 8081A during the second quarter; 314.0 and 8260B during the third and fourth quarters; and 1625M during the fourth quarter.
    E.S. Babcock & Sons of Riverside, California served as the split lab for EPA method 521 during the second quarter.

TABLE D-II
SUMMARY OF 2008 DUPLICATE SAMPLE RESULTS
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well ID	Date	Method	Constituent	Sample Result (ug/L)		RPD
				Primary	Duplicate	
Shallow Wells						
ES-05	02/06/08	8260B	cis-1,2-Dichloroethene	0.2 J	0.1 U	---
			Trichloroethene	1	0.1 U	---
ES-27	09/05/08	8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	140	110	24
			Acetone	7 J	7 J	NA
			cis-1,2-Dichloroethene	1 J	2 J	NA
			Trichloroethane	62	72	15
HAR-04	02/07/08	8260B	cis-1,2-Dichloroethene	6	6	0
			1,1,1-Trichloroethane	2 J	2 J	NA
			Trichloroethene	330	340	3
HAR-11	12/02/08	8260B	1,1,2-Trichloroethane	0.1 J	0.1 J	NA
			1,2-Dichloroethane	0.3 J	0.3 J	NA
			Acetone	3.8 J	3.9 J	NA
			Chloroethane	0.4 J	0.4 J	NA
			Chloroform	0.2 J	0.2 J	NA
			cis-1,2-Dichloroethene	2.1	2	5
			Ethylbenzene	0.1 J	0.1 J	NA
			Methyl ethyl ketone	1.2 J	1 J	NA
			m-Xylene & p-Xylene	0.4 J	0.4 J	NA
			o-Xylene	0.4 J	0.3 J	NA
			trans-1,2-Dichloroethene	0.1 J	0.1 J	NA
			Trichloroethene	1.5	1.5	0
HAR-15	04/22/08	521	n-Nitrosodi-n-propylamine	0.002 U	0.002 U	---
			n-Nitrosodiethylamine	0.002 U	0.002 U	---
			n-Nitrosodimethylamine	0.002 U	0.002 U	---
	11/03/08	8260B	cis-1,2-Dichloroethene	0.9	0.9	0
			Trichloroethene	2.3	2.2	4
RS-32	03/06/08	521	n-Nitrosodimethylamine	0.00034 U	0.00047 U	---
Chatsworth Formation Wells						
HAR-07	08/27/08	8290	Dioxins and furans	None detected	None detected	---
HAR-08	05/14/08	8260B	cis-1,2-Dichloroethene	18	18	0
			trans-1,2-Dichloroethene	1.6	1.6	0
			Trichloroethene	1.5	1.4	7
			Vinyl chloride	2.8	2.7	4
	12/03/08	8260B	cis-1,2-Dichloroethene	20	20	0
			m-Xylene & p-Xylene	0.1 U	0.1 J	---
			trans-1,2-Dichloroethene	3.3	3.3	0
			Trichloroethene	13	14	7
			Vinyl chloride	3.6	4	11
HAR-16	03/05/08	504.1	1,2-Dibromo-3-chloropropane	0.12 U	0.12 U	---
			1,2-Dibromoethane	0.096 U	0.094 U	---
	09/04/08	8290	Dioxins and furans	None detected	None detected	---
	10/28/08	8260B	1,1-Dichloroethene	25 J	22 J	NA
			cis-1,2-Dichloroethene	140	140	0
			Trichloroethene	10000	11000	10
			Trichlorofluoromethane	19 J	19 J	NA
HAR-17	09/04/08	8290	Dioxins and furans	None detected	None detected	---
HAR-18	02/18/08	8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	500	540	8
			1,1-Dichloroethane	3 J	3 J	NA
			1,1-Dichloroethene	43	42	2

See last page of table for notes and abbreviations.

TABLE D-II
SUMMARY OF 2008 DUPLICATE SAMPLE RESULTS
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well ID	Date	Method	Constituent	Sample Result (ug/L)		RPD
				Primary	Duplicate	
HAR-18	02/18/08	8260B	Chloroform	0.9 J	0.8 J	NA
(cont'd)			cis-1,2-Dichloroethene	580	620	7
			Tetrachloroethene	4 J	4 J	NA
			trans-1,2-Dichloroethene	9	9	0
			Trichloroethene	1300	1300	0
			Trichlorofluoromethane	1	1	NA
			Vinyl chloride	39	39	0
	05/13/08	8260B	1,1,1-Trichloroethane	3.5 J	2.9 J	NA
			1,1,2-Trichloro-1,2,2-trifluoroethane	520	360	36
			1,1-Dichloroethane	7.2	6.2	15
			1,1-Dichloroethene	140	110	24
			Acetone	30 U	33 J	---
			cis-1,2-Dichloroethene	810	650	22
			Tetrachloroethene	2 J	1.8 J	NA
			trans-1,2-Dichloroethene	16	12	29
			Trichloroethene	1400	1300	7
			Vinyl chloride	62	51	19
	08/28/08	314.0	Perchlorate	0.7 U	0.7 U	---
	12/01/08	8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	520	480	NA
			1,1-Dichloroethane	2.6 J	2.8 J	NA
			1,1-Dichloroethene	24	30	NA
			Acetone	32 J	33 J	NA
			Chloroform	1.1 J	1.1 J	NA
			cis-1,2-Dichloroethene	710	910	NA
			Tetrachloroethene	2.9 J	2.7 J	NA
			trans-1,2-Dichloroethene	8.4	13	NA
			Trichloroethene	1400	1300	NA
			Vinyl chloride	27	53	NA
OS-09	08/14/08	314.0	Perchlorate	0.7 U	0.7 U	---
	12/02/08	314.0	Perchlorate	0.7 U	0.7 U	---
OS-17	05/20/08	8260B	VOCs	None detected	None detected	---
	08/12/08	8260B	VOCs	None detected	None detected	---
OS-27	03/12/08	8260B	VOCs	None detected	None detected	---
RD-01	02/26/08	8260B	1,1-Dichloroethene	3 J	3 J	NA
			cis-1,2-Dichloroethene	740	730	1
			trans-1,2-Dichloroethene	29	29	0
			Trichloroethene	730	720	1
			Vinyl chloride	14	14	0
	05/05/08	8260B	1,1-Dichloroethene	2.6 J	2.6 J	NA
			cis-1,2-Dichloroethene	610	620	2
			trans-1,2-Dichloroethene	28	26	7
			Trichloroethene	590	640	8
			Vinyl chloride	8.6	8.5	1
	11/18/08	314.0	Perchlorate	0.7 U	0.7 U	---
RD-02	05/08/08	8260B	1,1-Dichloroethene	1.3 J	1.4 J	NA
			cis-1,2-Dichloroethene	340	340	0
			trans-1,2-Dichloroethene	25	25	0
			Trichloroethene	250	240	4
			Vinyl chloride	1.9 J	1.8 J	NA
	11/05/08	314.0	Perchlorate	0.7 U	0.7 U	---

See last page of table for notes and abbreviations.

TABLE D-II
SUMMARY OF 2008 DUPLICATE SAMPLE RESULTS
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well ID	Date	Method	Constituent	Sample Result (ug/L)		RPD
				Primary	Duplicate	
RD-04	10/29/08	8260B	cis-1,2-Dichloroethene	170	160	NA
			Trichloroethene	1400	1400	NA
RD-05B	02/18/08	8260B	Carbon Disulfide	0.1 J,L	0.1 U	---
			Chloroethane	0.1 J	0.1 U	---
	05/16/08	8260B	Carbon Disulfide	0.6	0.7	15
	08/18/08	8260B	VOCs	None detected	None detected	---
RD-05C	02/14/08	8260B	VOCs	None detected	None detected	---
	08/14/08	8260B	Carbon disulfide	0.4 J	0.4 U	---
	11/05/08	8260B	VOCs	None detected	None detected	---
RD-06	05/14/08	8260B	Carbon Disulfide	0.4 J	0.4 U	---
			Trichloroethene	0.1 J	0.1 U	---
	08/28/08	8260B	VOCs	None detected	None detected	---
	11/07/08	8260B	VOCs	None detected	None detected	---
RD-07(Z3)	02/05/08	8260B	1,1-Dichloroethene	0.1 J	0.1 J	NA
			Benzene	0.1 J,F	0.1 J,F	NA
			Chlorobenzene	0.1 J,F	0.3 J,F	NA
			cis-1,2-Dichloroethene	54	62	14
			trans-1,2-Dichloroethene	0.7	0.7	0
			Trichloroethene	6.3	6.8	8
RD-09	05/15/08	8260B	cis-1,2-Dichloroethene	76	78	3
			trans-1,2-Dichloroethene	20	21	5
			Trichloroethene	350	330	6
	10/28/08	8260B	cis-1,2-Dichloroethene	71	7.1	164
			trans-1,2-Dichloroethene	15	1.6	NA
			Trichloroethene	330	35	NA
RD-10	05/06/08	8260B	1,1-Dichloroethene	0.2 J	0.1 J	NA
			Carbon Tetrachloride	0.1 J	0.1 J	NA
			Chloroform	0.1 J	0.1 J	NA
			cis-1,2-Dichloroethene	12	12	0
			trans-1,2-Dichloroethene	0.9	1	11
			Trichloroethene	15	16	6
			Vinyl chloride	0.2 J	0.2 J	NA
	10/29/08	8260B	1,1-Dichloroethene	0.1 J	0.1 J	NA
			cis-1,2-Dichloroethene	10	10	0
			trans-1,2-Dichloroethene	0.7	0.7	0
			Trichloroethene	13	13	0
			Vinyl chloride	0.1 J	0.2 J	NA
RD-13	05/13/08	521	n-Nitrosodimethylamine	0.002 U	0.002 U	---
		8260B	Trichloroethene	0.2 J	0.2 J	NA
	09/03/08	1625M	n-Nitrosodimethylamine	0.005 U	0.005 U	---
	11/12/08	1625M	n-Nitrosodimethylamine	0.005 U	0.005 U	---
		8260B	Trichloroethene	0.2 J	0.3 J	NA
RD-16	05/09/08	8260B	VOCs	None detected	None detected	---
	11/11/08	8260B	Carbon Disulfide	0.4 J	0.4 J	NA
RD-18	05/20/08	8260B	VOCs	None detected	None detected	---
RD-24	02/13/08	8260B	cis-1,2-Dichloroethene	0.1 J	0.1 U	---
RD-32	05/02/08	8260B	VOCs	None detected	None detected	---
	11/10/08	8015M	GRO	None detected	None detected	---
		8260B	VOCs	None detected	None detected	---
RD-33B	05/16/08	8260B	Acetone	3.4 J	3.1 J	NA

See last page of table for notes and abbreviations.

TABLE D-II
SUMMARY OF 2008 DUPLICATE SAMPLE RESULTS
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well ID	Date	Method	Constituent	Sample Result (ug/L)		RPD
				Primary	Duplicate	
RD-33C	11/06/08	8260B	VOCs	None detected	None detected	---
RD-36B	08/14/08	8260B	cis-1,2-Dichloroethane	1 J	1 J	NA
			Trichloroethane	99	97	2
			Tetrachloroethene	6	6	0
RD-36C	02/20/08	8260B	1,1-Dichloroethene	4 J	5 J	22
			cis-1,2-Dichloroethene	59	58	2
			Tetrachloroethene	4 J	4 J	0
			trans-1,2-Dichloroethene	6	5	18
			Trichloroethene	81	80	1
RD-36D	02/19/08	8260B	Carbon Disulfide	0.1 J,L	0.1 J,L	NA
			Chloroethane	0.1 J	0.1 U	---
			Trichloroethene	0.4 J	0.4 J	NA
	08/15/08	8260B	1,1-Dichloroethene	0.2 J	0.1 U	---
			cis-1,2-Dichloroethene	2	0.1 U	---
			Tetrachloroethene	0.2 J	0.1 U	---
			trans-1,2-Dichloroethene	0.3 J	0.1 U	---
			Trichloroethene	3.9	0.4 J	NA
RD-37	09/09/08	314.0	Perchlorate	0.7 U	0.7 U	---
		8260B	Trichloroethane	0.1 J	0.1 J	NA
RD-38A	05/20/08	8260B	1,1-Dichloroethane	4 J	4 J	NA
			1,1-Dichloroethene	13	15	14
			cis-1,2-Dichloroethene	43	46	7
			trans-1,2-Dichloroethene	2 J	3 J	NA
			Trichloroethene	300	350	15
RD-43A	02/14/08	8260B	VOCs	None detected	None detected	---
RD-43B	08/13/08	8260B	VOCs	None detected	None detected	---
RD-43C	02/15/08	8260B	VOCs	None detected	None detected	---
	05/12/08	8260B	VOCs	None detected	None detected	---
	11/06/08	8260B	VOCs	None detected	None detected	---
RD-44	05/07/08	521	n-Nitrosodimethylamine	0.002 U	0.002 U	---
	10/30/08	1625M	n-Nitrosodimethylamine	0.005 U	0.005 U	---
RD-45C	02/19/08	8260B	Carbon Disulfide	0.4 J,L	0.2 J,L	NA
RD-48C	02/26/08	8260B	Carbon Disulfide	0.4 J,L	0.4 J,L	NA
	11/05/08	8260B	VOCs	None detected	None detected	---
RD-49B	02/27/08	8260B	1,1-Dichloroethene	1 J	0.9 J	NA
			cis-1,2-Dichloroethene	280	280	0
			trans-1,2-Dichloroethene	16	15	6
			Trichloroethene	280	290	4
			Vinyl chloride	4	4	0
RD-51C	08/26/08	8260B	Trichloroethene	0.1 J	0.1 J	NA
	11/03/08	1625M	n-Nitrosodimethylamine	0.005 U	0.005 U	---
RD-52C	02/20/08	8260B	Carbon Disulfide	0.3 J,L	0.3 J,L	NA
RD-54A(Z2)	02/06/08	8260B	1,1-Dichloroethene	3 J	3 J	NA
			1,2-Dichloroethane	0.8 J	1 J	NA
			cis-1,2-Dichloroethene	88	89	1
			trans-1,2-Dichloroethene	0.9 J	0.9 J	NA
			Trichloroethene	10	11	10

See last page of table for notes and abbreviations.

TABLE D-II
SUMMARY OF 2008 DUPLICATE SAMPLE RESULTS
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well ID	Date	Method	Constituent	Sample Result (ug/L)		RPD
				Primary	Duplicate	
RD-54A(Z2)	08/07/08	8260B	1,1-Dichloroethene	2 J	2 J	NA
(cont'd)			cis-1,2-Dichloroethene	49	46	6
			trans-1,2-Dichloroethene	0.9 J	0.8 U	---
			Trichloroethene	7	8	13
RD-54B	02/14/08	8260B	Chloroethane	0.1 J	0.1 J	NA
			Chloromethane	0.2 J	0.2 J	NA
			Toluene	0.3 J	0.2 J	NA
			Vinyl chloride	0.4 J	0.5 J	NA
RD-55A	05/06/08	8260B	cis-1,2-Dichloroethene	4.7	4.6	2
			trans-1,2-Dichloroethene	0.5	0.5 J	NA
			Trichloroethene	8	7.7	4
			Vinyl chloride	1	1	0
RD-55B	08/27/08	8260B	1,1-Dichloroethene	0.3 J	0.3 J	NA
			Acetone	87	84	4
			Chloromethane	0.3 J	0.2 U	---
			cis-1,2-Dichloroethene	15	15	NA
			m+p-Xylene	0.3 J	0.3 J	NA
			o-Xylene	0.2 J	0.2 J	NA
			Toluene	0.9	0.9	0
			trans-1,2-Dichloroethene	0.1 J	0.1 J	NA
			Trichloroethene	21	21	NA
			Vinyl chloride	0.1 J	0.1 J	NA
	11/20/08	8260B	1,1-Dichloroethene	0.3 J	0.3 J	NA
			Acetone	5 J	4.8 J	NA
			cis-1,2-Dichloroethene	17	16	6
			m-Xylene & p-Xylene	0.2 J	0.2 J	NA
			o-Xylene	0.1 J	0.1 J	NA
			Toluene	0.3 J	0.4 J	NA
			trans-1,2-Dichloroethene	0.3 J	0.3 J	NA
			Trichloroethene	24	25	NA
			Vinyl chloride	0.1 J	0.1 J	NA
RD-58A	09/02/08	8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	4.9	4.9	0
			cis-1,2-Dichloroethene	7.6	7.6	0
			Trichloroethene	93	97	4
RD-58C	02/20/08	8260B	cis-1,2-Dichloroethene	0.5	0.5	0
			Vinyl chloride	1.4	1.4	0
RD-59C	05/20/08	8260B	VOCs	None detected	None detected	---
RD-61	05/01/08	8260B	VOCs	None detected	None detected	---
	08/21/08	8260B	VOCs	None detected	None detected	---
RD-62	11/12/08	8260B	VOCs	None detected	None detected	---
RD-63	02/06/08	8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	0.2 J	0.2 J	NA
			1,1-Dichloroethane	0.8	0.8	0
			1,1-Dichloroethene	1.5	1.6	6
			cis-1,2-Dichloroethene	4.6	4.5	2
			Trichloroethene	10	10	0
RD-64(Z7)	02/06/08	8260B	1,1-Dichloroethene	2 J	3 J	NA
			cis-1,2-Dichloroethene	110	400	114
			trans-1,2-Dichloroethene	1 J	5 J	NA
			Trichloroethene	280	49	140
			Vinyl chloride	0.5 U	0.6 J	---

See last page of table for notes and abbreviations.

TABLE D-II
SUMMARY OF 2008 DUPLICATE SAMPLE RESULTS
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well ID	Date	Method	Constituent	Sample Result (ug/L)		RPD
				Primary	Duplicate	
RD-67	03/06/08	521	n-Nitrosodimethylamine	0.00039 U	0.00033 U	---
	05/19/08	521	n-Nitrosodimethylamine	0.002 U	0.002 U	---
	09/03/08	1625M	n-Nitrosodimethylamine	0.005 U	0.005 U	---
	11/19/08	1625M	n-Nitrosodimethylamine	0.005 U	0.005 U	---
		8260B	VOCs	None detected	None detected	---
RD-68A	05/15/08	8260B	VOCs	None detected	None detected	---
	11/13/08	8260B	Acetone	3.2 J	3.5 J	NA
RD-68B	08/14/08	8260B	VOCs	None detected	None detected	---
RD-70	08/21/08	8260B	Vinyl chloride	0.1 J	0.1 J	NA
WS-05	11/03/08	314.0	Perchlorate	0.7 U	0.7 U	---
WS-06	05/07/08	8260B	1,1-Dichloroethene	0.3 J	0.3 J	NA
			Carbon Disulfide	1.1	0.7	44
			cis-1,2-Dichloroethene	110	110	0
			trans-1,2-Dichloroethene	14	15	7
			Trichloroethene	4.3	4.4	2
			Vinyl chloride	5.1	5	2
	09/09/08	8260B	1,1-Dichloroethene	0.4 J	0.3 J	NA
			cis-1,2-Dichloroethene	130	130	0
			trans-1,2-Dichloroethene	12	12	0
			Trichloroethene	5.1	5.3	4
			Vinyl chloride	6.7	6.8	1
WS-09	10/29/08	8260B	cis-1,2-Dichloroethene	790	700	NA
			Trichloroethene	14000	14000	NA
WS-09A	05/15/08	8260B	cis-1,2-Dichloroethene	19	20	5
			trans-1,2-Dichloroethene	1	1	0
			Trichloroethene	6.2	6.2	0
			Vinyl chloride	0.1 U	0.1 J	---
	08/20/08	314.0	Perchlorate	0.7 U	0.7 U	---
		8260B	1,1-Dichloroethene	0.1 J	0.1 J	NA
			Acetone	3 U	3 J	---
			cis-1,2-Dichloroethene	18	20	11
			Toluene	0.1 U	0.2 J	---
			trans-1,2-Dichloroethene	1.4	1.6	13
			Trichloroethene	4.1	4.1	0
			Vinyl chloride	0.2 J	0.2 J	NA
	10/30/08	8260B	1,1-Dichloroethene	0.1 J	0.1 J	NA
			Carbon Disulfide	0.4 U	0.5 J	---
			cis-1,2-Dichloroethene	31	35	NA
			trans-1,2-Dichloroethene	2.5	2.9	15
			Trichloroethene	4.2	4.6	9
			Vinyl chloride	0.2 J	0.3 J	NA

See last page of table for notes and abbreviations.

1. 1625M = EPA method 1625M for n-Nitrosodimethylamine (NDMA).
2. 314.0 = EPA method 314.0 for perchlorate.
3. 504.1 = EPA method 504.1 for 1,2-Dibromo-3-chloropropane and 1,2-Dibromoethane.
4. 521 = EPA method 521 for n-Nitrosodi-n-propylamine, n-Nitrosodiethylamine, and NDMA.
5. 8015M = EPA method 8015M for GRO.
6. 8260B = EPA method 8260B for volatile organic compounds (VOCs).
7. 8290 = EPA method 8290 for dioxins and furans.
8. ug/L = Micrograms per liter.
9. RPD = Replicate percent difference. RPDs were calculated only if the detected concentration exceeded the product of five times the method detection limit times the dilution factor.

   = $\left|((X_1 - X_2)/X_{ave})\right| \times 100$
   X_1 = primary concentration observed;
   X_2 = split concentration observed; and
   X_{ave} = average concentration = $(X_1 + X_2) / 2$
10. NA = Not applicable. An RPD calculation is not valid since at least one of the laboratories reported a detectable concentration less than the product of five times the method detection limit times the dilution factor.
11. (---) = Not applicable. Constituent not detected in one or both samples.
12. F = Sampled through multi-level FLUTe ports. Footnoted results are not representative of past groundwater samples, and may have been introduced in the FLUTe samples by compressed nitrogen gas, electrical tape and/or FLUTe components.
13. J = Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL).
14. L = Laboratory contaminant.
15. U = Not detected.
16. Z = FLUTe sample port number.
17. Primary and duplicate 8260B, 8015M, 504.1, and 314.0 samples were analyzed by Lancaster Laboratories of Lancaster, Pennsylvania.
    Primary and duplicate NDMA samples (methods 521 and 1625M) were analyzed by Weck Laboratories of City of Industry, California.
    Primary and duplicate dioxin and furan samples (method 8290) were analyzed by TestAmerica of Knoxville, Tennessee.

TABLE D-III
SUMMARY OF 2008 DATA QUALIFICATION DUE TO PRESERVATION / HOLDING TIME EXCEEDANCE
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Lab Report	Preservation and/or Holding Time Exceeded?	Affected Field Samples	Date Sampled	Method	Target Analyte(s)	Concentration	Units	Corrective Action: VOC Qualification
Volatile Organic Compounds								
1092120	HT	RD-58A	05/19/08	8260B	1,1,1-Trichloroethane	0.1	ug/L	UJ
					1,1,2,2-Tetrachloroethane	0.1	ug/L	UJ
					1,1,2-Trichloroethane	0.1	ug/L	UJ
					1,1-Dichloroethane	0.1	ug/L	UJ
					1,2-Dichlorobenzene	0.1	ug/L	UJ
					1,2-Dichloroethane	0.1	ug/L	UJ
					1,2-Dichloropropane	0.1	ug/L	UJ
					1,3-Dichlorobenzene	0.1	ug/L	UJ
					1,4-Dichlorobenzene	0.1	ug/L	UJ
					2-butanone	1	ug/L	UJ
					2-Hexanone	1	ug/L	UJ
					4-Methyl-2-pentanone (MIBK)	1	ug/L	UJ
					Acetone	3	ug/L	UJ
					Benzene	0.1	ug/L	UJ
					Bromodichloromethane	0.1	ug/L	UJ
					Bromoform	0.1	ug/L	UJ
					Bromomethane	0.1	ug/L	UJ
					Carbon disulfide	5.6	ug/L	J
					Carbon tetrachloride	0.1	ug/L	UJ
					Chlorobenzene	0.1	ug/L	UJ
					Chloroethane	0.1	ug/L	UJ
					Chloroform	0.1	ug/L	UJ
					Chloromethane	0.2	ug/L	UJ
					cis-1,2-Dichloroethene	19	ug/L	J
					cis-1,3-Dichloropropene	0.1	ug/L	UJ
					Dibromochloromethane	0.1	ug/L	UJ
					Ethylbenzene	0.1	ug/L	UJ
					m,p-Xylenes	0.1	ug/L	UJ

See last page of table for notes and abbreviations.

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Lab Report	Preservation and/or Holding Time Exceeded?	Affected Field Samples	Date Sampled	Method	Target Analyte(s)	Concentration	Units	Corrective Action: VOC Qualification
1092120	HT	RD-58A	05/19/08	8260B	o-Xylene	0.1	ug/L	UJ
					Tetrachloroethene	0.1	ug/L	UJ
					Toluene	0.1	ug/L	UJ
					trans-1,3-Dichloropropene	0.1	ug/L	UJ
					Trichloroethene	140	ug/L	J
					Trichlorofluoromethane	0.1	ug/L	UJ
					Trichlorotrifluoroethane	8.7	ug/L	J
203169	HT	RD-02	05/08/08	8260B	1,1,1-Trichloroethane	0.6	ug/L	UJ
					1,1,2,2-Tetrachloroethane	0.6	ug/L	UJ
					1,1,2-Trichloro-1,2,2-trifluoroethane	2.5	ug/L	UJ
					1,1,2-Trichloroethane	0.9	ug/L	UJ
					1,1-Dichloroethane	0.6	ug/L	UJ
					1,2-Dichlorobenzene	0.7	ug/L	UJ
					1,2-Dichloroethane	0.6	ug/L	UJ
					1,2-Dichloropropane	0.6	ug/L	UJ
					1,3-Dichlorobenzene	0.6	ug/L	UJ
					1,4-Dichlorobenzene	0.7	ug/L	UJ
					2-Hexanone	13	ug/L	UJ
					4-Methyl-2-pentanone	13	ug/L	UJ
					Acetone	6.3	ug/L	UJ
					Benzene	0.6	ug/L	UJ
					Bromodichloromethane	0.6	ug/L	UJ
					Bromoform	1.3	ug/L	UJ
					Bromomethane	1.5	ug/L	UJ
					Carbon Disulfide	0.6	ug/L	UJ
					Carbon Tetrachloride	0.6	ug/L	UJ
					Chlorobenzene	0.6	ug/L	UJ
					Chloroethane	1.7	ug/L	UJ
					Chloroform	0.6	ug/L	UJ

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Lab Report	Preservation and/or Holding Time Exceeded?	Affected Field Samples	Date Sampled	Method	Target Analyte(s)	Concentration	Units	Corrective Action: VOC Qualification
203169	HT	RD-02	05/08/08	8260B	Chloromethane	1.3	ug/L	UJ
					cis-1,2-Dichloroethene	390	ug/L	J
					cis-1,3-Dichloropropene	0.6	ug/L	UJ
					Dibromochloromethane	0.9	ug/L	UJ
					Ethylbenzene	0.6	ug/L	UJ
					m-Xylene & p-Xylene	1	ug/L	UJ
					Methyl ethyl ketone	13	ug/L	UJ
					Methylene chloride	6.3	ug/L	UJ
					o-Xylene	0.6	ug/L	UJ
					Tetrachloroethene	0.7	ug/L	UJ
					Toluene	0.6	ug/L	UJ
					trans-1,2-Dichloroethene	28	ug/L	J
					trans-1,3-Dichloropropene	0.6	ug/L	UJ
					Trichloroethene	280	ug/L	J
					Trichlorofluoromethane	1.3	ug/L	UJ
203406	HT	RD-05B	05/16/08	8260B	1,1,1-Trichloroethane	0.1	ug/L	UJ
					1,1,2,2-Tetrachloroethane	0.1	ug/L	UJ
					1,1,2-Trichloro-1,2,2-trifluoroethane	0.4	ug/L	UJ
					1,1,2-Trichloroethane	0.1	ug/L	UJ
					1,1-Dichloroethane	0.1	ug/L	UJ
					1,1-Dichloroethene	0.1	ug/L	UJ
					1,2-Dichlorobenzene	0.1	ug/L	UJ
					1,2-Dichloroethane	0.1	ug/L	UJ
					1,2-Dichloropropane	0.1	ug/L	UJ
					1,3-Dichlorobenzene	0.1	ug/L	UJ
					1,4-Dichlorobenzene	0.1	ug/L	UJ
					2-Hexanone	2	ug/L	UJ
					4-Methyl-2-pentanone	2	ug/L	UJ
					Acetone	1	ug/L	UJ

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Lab Report	Preservation and/or Holding Time Exceeded?	Affected Field Samples	Date Sampled	Method	Target Analyte(s)	Concentration	Units	Corrective Action: VOC Qualification
203406	HT	RD-05B	0516/2008	8260B	Benzene	0.1	ug/L	UJ
					Bromodichloromethane	0.1	ug/L	UJ
					Bromoform	0.2	ug/L	UJ
					Bromomethane	0.2	ug/L	UJ
					Carbon Disulfide	0.6	ug/L	J
					Carbon Tetrachloride	0.1	ug/L	UJ
					Chlorobenzene	0.1	ug/L	UJ
					Chloroethane	0.3	ug/L	UJ
					Chloroform	0.1	ug/L	UJ
					Chloromethane	0.2	ug/L	UJ
					cis-1,2-Dichloroethene	0.1	ug/L	UJ
					cis-1,3-Dichloropropene	0.1	ug/L	UJ
					Dibromochloromethane	0.1	ug/L	UJ
					Ethylbenzene	0.1	ug/L	UJ
					m-Xylene & p-Xylene	0.2	ug/L	UJ
					Methyl ethyl ketone	2	ug/L	UJ
					Methylene chloride	1	ug/L	UJ
					o-Xylene	0.1	ug/L	UJ
					Tetrachloroethene	0.1	ug/L	UJ
					Toluene	0.1	ug/L	UJ
					trans-1,2-Dichloroethene	0.1	ug/L	UJ
					trans-1,3-Dichloropropene	0.1	ug/L	UJ
					Trichloroethene	0.1	ug/L	UJ
					Trichlorofluoromethane	0.2	ug/L	UJ
					Vinyl chloride	0.1	ug/L	UJ
		RD-36D	05/15/08	8260B	1,1,1-Trichloroethane	0.1	ug/L	UJ
					1,1,2,2-Tetrachloroethane	0.1	ug/L	UJ
					1,1,2-Trichloro-1,2,2-trifluoroethane	0.4	ug/L	UJ
					1,1,2-Trichloroethane	0.1	ug/L	UJ

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Lab Report	Preservation and/or Holding Time Exceeded?	Affected Field Samples	Date Sampled	Method	Target Analyte(s)	Concentration	Units	Corrective Action: VOC Qualification
203406	HT	RD-36D	05/15/08	8260B	1,1-Dichloroethane	0.1	ug/L	UJ
					1,1-Dichloroethene	0.1	ug/L	UJ
					1,2-Dichlorobenzene	0.1	ug/L	UJ
					1,2-Dichloroethane	0.1	ug/L	UJ
					1,2-Dichloropropane	0.1	ug/L	UJ
					1,3-Dichlorobenzene	0.1	ug/L	UJ
					1,4-Dichlorobenzene	0.1	ug/L	UJ
					2-Hexanone	2	ug/L	UJ
					4-Methyl-2-pentanone	2	ug/L	UJ
					Acetone	1	ug/L	UJ
					Benzene	0.1	ug/L	UJ
					Bromodichloromethane	0.1	ug/L	UJ
					Bromoform	0.2	ug/L	UJ
					Bromomethane	0.2	ug/L	UJ
					Carbon Disulfide	0.1	ug/L	UJ
					Carbon Tetrachloride	0.1	ug/L	UJ
					Chlorobenzene	0.1	ug/L	UJ
					Chloroethane	0.3	ug/L	UJ
					Chloroform	0.1	ug/L	UJ
					Chloromethane	0.2	ug/L	UJ
					cis-1,2-Dichloroethene	0.1	ug/L	UJ
					cis-1,3-Dichloropropene	0.1	ug/L	UJ
					Dibromochloromethane	0.1	ug/L	UJ
					Ethylbenzene	0.1	ug/L	UJ
					m-Xylene & p-Xylene	0.2	ug/L	UJ
					Methyl ethyl ketone	2	ug/L	UJ
					Methylene chloride	1	ug/L	UJ
					o-Xylene	0.1	ug/L	UJ
					Tetrachloroethene	0.1	ug/L	UJ

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Lab Report	Preservation and/or Holding Time Exceeded?	Affected Field Samples	Date Sampled	Method	Target Analyte(s)	Concentration	Units	Corrective Action: VOC Qualification
203406	HT	RD-36D	05/15/08	8260B	Toluene	0.1	ug/L	UJ
					trans-1,2-Dichloroethene	0.1	ug/L	UJ
					trans-1,3-Dichloropropene	0.1	ug/L	UJ
					Trichlorofluoromethane	0.2	ug/L	UJ
					Vinyl chloride	0.1	ug/L	UJ
203500	HT	RD-38B	05/20/08	8260B	1,1,1-Trichloroethane	0.1	ug/L	UJ
					1,1,2,2-Tetrachloroethane	0.1	ug/L	UJ
					1,1,2-Trichloro-1,2,2-trifluoroethane	0.4	ug/L	UJ
					1,1,2-Trichloroethane	0.1	ug/L	UJ
					1,1-Dichloroethane	0.1	ug/L	UJ
					1,1-Dichloroethene	0.1	ug/L	UJ
					1,2-Dichlorobenzene	0.1	ug/L	UJ
					1,2-Dichloroethane	0.1	ug/L	UJ
					1,2-Dichloropropane	0.1	ug/L	UJ
					1,3-Dichlorobenzene	0.1	ug/L	UJ
					1,4-Dichlorobenzene	0.1	ug/L	UJ
					2-Hexanone	2	ug/L	UJ
					4-Methyl-2-pentanone	2	ug/L	UJ
					Acetone	1	ug/L	UJ
					Benzene	0.1	ug/L	UJ
					Bromodichloromethane	0.1	ug/L	UJ
					Bromoform	0.2	ug/L	UJ
					Bromomethane	0.2	ug/L	UJ
					Carbon Disulfide	0.1	ug/L	UJ
					Carbon Tetrachloride	0.1	ug/L	UJ
					Chlorobenzene	0.1	ug/L	UJ
					Chloroethane	0.3	ug/L	UJ
					Chloroform	0.1	ug/L	UJ
					Chloromethane	0.2	ug/L	UJ

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Lab Report	Preservation and/or Holding Time Exceeded?	Affected Field Samples	Date Sampled	Method	Target Analyte(s)	Concentration	Units	Corrective Action: VOC Qualification
203500	HT	RD-38B	05/20/08	8260B	cis-1,2-Dichloroethene	0.1	ug/L	UJ
					cis-1,3-Dichloropropene	0.1	ug/L	UJ
					Dibromochloromethane	0.1	ug/L	UJ
					Ethylbenzene	0.1	ug/L	UJ
					m-Xylene & p-Xylene	0.2	ug/L	UJ
					Methyl ethyl ketone	2	ug/L	UJ
					Methylene chloride	1	ug/L	UJ
					o-Xylene	0.1	ug/L	UJ
					Tetrachloroethene	0.1	ug/L	UJ
					Toluene	0.1	ug/L	UJ
					trans-1,2-Dichloroethene	0.1	ug/L	UJ
					trans-1,3-Dichloropropene	0.1	ug/L	UJ
					Trichloroethene	0.1	ug/L	UJ
					Trichlorofluoromethane	0.2	ug/L	UJ
					Vinyl chloride	0.1	ug/L	UJ

Lab Report	Preservation and/or Holding Time Exceeded?	Affected Field Samples	Date Sampled	Method	Target Analyte(s)	Concentration	Units	Corrective Action: Inorganic Qualification
Inorganics / General Minerals								
1077662	HT	OS-16	02/14/08	150.1	pH	7.1	pH units	J
		OS-26		150.1	pH	7.1	pH units	J
		RD-43A		150.1	pH	7.0	pH units	J
		RD-43B		150.1	pH	7.4	pH units	J
1077844	HT	RD-43C	02/15/08	150.1	pH	7.3	pH units	J
1078175	HT	RD-32	02/19/08	150.1	pH	7.3	pH units	J
		RD-36B		150.1	pH	6.4	pH units	J
		RD-36D		150.1	pH	7.3	pH units	J
		RD-45C		150.1	pH	7.6	pH units	J
		RD-77		150.1	pH	6.6	pH units	J
1078394	HT	RD-36C	02/20/08	150.1	pH	7.2	pH units	J
		RD-52B		150.1	pH	7.1	pH units	J
		RD-52C		150.1	pH	7.2	pH units	J
1078396	HT	PZ-121	02/20/08	150.1	pH	7.1	pH units	J

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Lab Report	Preservation and/or Holding Time Exceeded?	Affected Field Samples	Date Sampled	Method	Target Analyte(s)	Concentration	Units	Corrective Action: Inorganic Qualification
1078631	HT	OS-02	02/21/08	150.1	pH	8.1	pH units	J
		OS-09		150.1	pH	8.6	pH units	J
		OS-10		150.1	pH	8.4	pH units	J
		RD-51B		150.1	pH	7.2	pH units	J
		RD-68A		150.1	pH	8.2	pH units	J
		RD-68B		150.1	pH	7.4	pH units	J
1078694	HT	RD-84	02/22/08	150.1	pH	6.9	pH units	J
		WS-14		150.1	pH	7.3	pH units	J
1078938	HT	WS-13	02/25/08	150.1	pH	7.5	pH units	J
1079087	HT	WS-04A	02/26/08	150.1	pH	7.0	pH units	J
1079474	HT	WS-09B	02/28/08	150.1	pH	7.0	pH units	J
1080052	HT	OS-17	03/04/08	150.1	pH	7.7	pH units	J
		OS-28		150.1	pH	7.6	pH units	J
D8D290219	HT	HAR-07	04/23/08	8315A	Formaldehyde	42	ug/L	UJ
1090292	HT	RD-51C	05/07/08	150.1	pH	7.5	pH units	J
1091724	HT	RD-09	05/15/08	8315A	Formaldehyde	10	ug/L	UJ
		WS-09A		8315A	Formaldehyde	53	ug/L	J
		RD-09		300	Nitrate-NO3	0.22	mg/L	UJ
1092591	HT	RD-38A	05/20/08	150.1	pH	6.9	pH units	J
		RD-38B		150.1	pH	7.3	pH units	J
		RD-59A		150.1	pH	7.2	pH units	J
		RD-59B		150.1	pH	7.5	pH units	J
		RD-59C		150.1	pH	7.8	pH units	J
		RD-38		300	Nitrate-NO3	3.3	mg/L	J
		RD-59A		300	Nitrate-NO3	0.05	mg/L	UJ
		RD-59C		300	Nitrate-NO3	0.05	mg/L	UJ
1109871	HT	RD-98	09/11/08	300.0	Nitrate-NO3	4.3	mg/L	J
1119906	HT	PZ-122	11/12/08	150.1	pH	6.9	pH units	J
1122653	HT	OS-09	12/02/08	150.1	pH	8.6	pH units	J

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Lab Report	Preservation and/or Holding Time Exceeded?	Affected Field Samples	Date Sampled	Method	Target Analyte(s)	Concentration	Units	Corrective Action: SVOC Qualification
Semi-Volatile Organic Compounds								
D8D230261	HT	HAR-14	04/22/08	8270C	1,2,4,5-Tetrachlorobenzene	1.8	ug/L	UJ
					1,2,4-Trichlorobenzene	0.29	ug/L	UJ
					1,3,5-Trinitrobenzene	4.2	ug/L	UJ
					1,3-Dichlorobenzene	0.32	ug/L	UJ
					1,3-Dinitrobenzene	2.1	ug/L	UJ
					1,4-Naphthoquinone	2.1	ug/L	UJ
					1,4-Phenylenediamine	5.2	ug/L	UJ
					1-Naphthylamine	1	ug/L	UJ
					2,3,4,6-Tetrachlorophenol	2.1	ug/L	UJ
					2,4,5-Trichlorophenol	0.47	ug/L	UJ
					2,4,6-Trichlorophenol	0.3	ug/L	UJ
					2,4-Dichlorophenol	0.67	ug/L	UJ
					2,4-Dimethylphenol	0.61	ug/L	UJ
					2,4-Dinitrophenol	10	ug/L	UJ
					2,4-Dinitrotoluene	0.23	ug/L	UJ
					2,6-Dichlorophenol	1.4	ug/L	UJ
					2,6-Dinitrotoluene	0.34	ug/L	UJ
					2-Acetylaminofluorene	7.3	ug/L	UJ
					2-Chloronaphthalene	0.27	ug/L	UJ
					2-Chlorophenol	2.1	ug/L	UJ
					2-Methylnaphthalene	0.3	ug/L	UJ
					2-Methylphenol	1	ug/L	UJ
					2-Naphthylamine	1	ug/L	UJ
					2-Nitroaniline	0.34	ug/L	UJ
					2-Nitrophenol	0.41	ug/L	UJ
					2-Picoline	1.3	ug/L	UJ
					3,3'-Dichlorobenzidine	2.1	ug/L	UJ
					3,3'-Dimethylbenzidine	4.2	ug/L	UJ
					3-Methylcholanthrene	1.8	ug/L	UJ
					3-Methylphenol	0.26	ug/L	UJ
					3-Nitroaniline	0.28	ug/L	UJ
					4,6-Dinitro-2-Methylphenol	4.2	ug/L	UJ
					4-Aminobiphenyl	4.7	ug/L	UJ

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D8D230261	HT	HAR-14	04/22/08	8270C	4-Bromophenyl phenyl ether	0.45	ug/L	UJ
					4-Chloro-3-Methylphenol	0.94	ug/L	UJ
					4-Chloroaniline	0.3	ug/L	UJ
					4-Chlorophenyl phenyl ether	0.28	ug/L	UJ
					4-Methylphenol	0.26	ug/L	UJ
					4-Nitroaniline	2.1	ug/L	UJ
					4-Nitrophenol	1.3	ug/L	UJ
					4-Nitroquinoline-1-oxide	21	ug/L	UJ
					5-Nitro-o-toluidine	1.5	ug/L	UJ
					7,12-Dimethylbenz(a)anthracene	1.6	ug/L	UJ
					Acenaphthene	0.29	ug/L	UJ
					Acenaphthylene	0.51	ug/L	UJ
					Acetophenone	0.25	ug/L	UJ
					alpha, alpha-Dimethylphenethylamine	21	ug/L	UJ
					Aniline	2.1	ug/L	UJ
					Anthracene	0.44	ug/L	UJ
					Aramite	21	ug/L	UJ
					Benzo(a)anthracene	0.37	ug/L	UJ
					Benzo(a)pyrene	0.33	ug/L	UJ
					Benzo(b)fluoranthene	0.56	ug/L	UJ
					Benzo(ghi)perylene	0.52	ug/L	UJ
					Benzo(k)fluoranthene	0.48	ug/L	UJ
					Benzyl alcohol	0.24	ug/L	UJ
					bis(2-Chloroethoxy)methane	1	ug/L	UJ
					bis(2-Chloroethyl) ether	0.43	ug/L	UJ
					bis(2-Chloroisopropyl) ether	0.29	ug/L	UJ
					Butyl benzyl phthalate	1	ug/L	UJ
					Chrysene	0.57	ug/L	UJ
					Dibenz(a,h)anthracene	0.54	ug/L	UJ
					Dibenzofuran	0.3	ug/L	UJ
					Diethyl phthalate	0.4	ug/L	UJ
					Dimethyl phthalate	0.22	ug/L	UJ
					Di-n-butyl phthalate	1.2	ug/L	UJ
					Di-n-octyl phthalate	0.37	ug/L	UJ

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VENTURA COUNTY, CALIFORNIA

Lab Report	Preservation and/or Holding Time Exceeded?	Affected Field Samples	Date Sampled	Method	Target Analyte(s)	Concentration	Units	Corrective Action: SVOC Qualification
D8D230261	HT	HAR-14	04/22/08	8270C	Diphenylamine	1.1	ug/L	UJ
					Ethyl methanesulfonate	0.99	ug/L	UJ
					Fluoranthene	0.21	ug/L	UJ
					Fluorene	0.33	ug/L	UJ
					Hexachlorobenzene	0.69	ug/L	UJ
					Hexachlorobutadiene	0.54	ug/L	UJ
					Hexachlorocyclopentadiene	1.6	ug/L	UJ
					Hexachloroethane	0.48	ug/L	UJ
					Hexachloropropene	2.1	ug/L	UJ
					Indeno(1,2,3-cd)pyrene	0.68	ug/L	UJ
					Isodrin	1.9	ug/L	UJ
					Isophorone	0.22	ug/L	UJ
					Isosafrole	2.1	ug/L	UJ
					Methapyrilene	21	ug/L	UJ
					Methyl methanesulfonate	1	ug/L	UJ
					Naphthalene	0.3	ug/L	UJ
					Nitrobenzene	0.85	ug/L	UJ
					n-Nitrosodi-n-butylamine	1.3	ug/L	UJ
					n-Nitrosodiphenylamine	0.46	ug/L	UJ
					n-Nitrosomethylethylamine	1.8	ug/L	UJ
					n-Nitrosomorpholine	2.1	ug/L	UJ
					n-Nitrosopiperidine	2.1	ug/L	UJ
					n-Nitrosopyrrolidine	0.84	ug/L	UJ
					o,o,o-Triethyl phosphorothioate	2.1	ug/L	UJ
					o-Toluidine	1.5	ug/L	UJ
					p-Dimethylaminoazobenzene	2.1	ug/L	UJ
					Pentachlorobenzene	2.1	ug/L	UJ
					Pentachloroethane	2.1	ug/L	UJ
					Pentachloronitrobenzene	2.1	ug/L	UJ

See last page of table for notes and abbreviations.

TABLE D-III
SUMMARY OF 2008 DATA QUALIFICATION DUE TO PRESERVATION / HOLDING TIME EXCEEDANCE
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Lab Report	Preservation and/or Holding Time Exceeded?	Affected Field Samples	Date Sampled	Method	Target Analyte(s)	Concentration	Units	Corrective Action: SVOC Qualification
D8D230261	HT	HAR-14	04/22/08	8270C	Pentachlorophenol	0.76	ug/L	UJ
					Phenacetin	1.1	ug/L	UJ
					Phenanthrene	0.27	ug/L	UJ
					Phenol	2.1	ug/L	UJ
					Pronamide	2.1	ug/L	UJ
					Pyrene	0.39	ug/L	UJ
					Pyridine	1.8	ug/L	UJ
					Safrole	1.2	ug/L	UJ

Lab Report	Preservation and/or Holding Time Exceeded?	Affected Field Samples	Date Sampled	Method	Target Analyte(s)	Concentration	Units	Corrective Action: Surfactants Qualification
Surfactants								
1109589	HT	PZ-041	09/10/08	425.1	Surfactants	0.035	mg/L	UJ

See last page of table for notes and abbreviations.

TABLE D-III

NOTES AND ABBREVIATIONS:

1. J = Estimated value as a result of holding time and/or preservation exceedance.

2. U = Not detected.

3. UJ = Not detected. Estimated detection limit as a result of holding time and/or preservation exceedance.

4. HT = Holding time.

5. R = Rejected result.

6. If preservation and/or holding time was exceeded, qualify associated target analyte positive results as "J" and non-detected analytes as "UJ". If preservation and/or holding time was grossly exceeded, qualify associated target analyte positive results as "J" and non-detected analytes as "R".

TABLE D-IV
SUMMARY OF 2008 DATA QUALIFICATION DUE TO BLANK SAMPLE CONTAMINATION
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Blank Sample Identification	Blank Sample Type	Sample Date	Lab Report	Target Analyte(s) Detected in the Blank	Concentration	Corrective Action: Flag Associated Field Sample results with a "U" if less than or equal to this value	Affected Field Samples
Metals (mg/L)							
080435713002-BLK	Method	02/06/08 - 02/07/08	1076742 1076743 1076744	Mercury	0.057 J	0.57	RD-23(Z3), RD-33A(Z2), RD-34A (dissolved, total), RD-57(Z8)
080571848001-BLK	Method	02/22/08	1078698	Iron	63.7	637	PZ-045
080606050002A-BLK	Method	02/25/08	1078958	Beryllium	0.075 J	0.75	RD-55A (dissolved, total)
080736050006A-BLK	Method	03/10/08	1081155	Beryllium	0.13 J	1.3	RD-49A (total)
8119575-BLK	Method	04/22/08-04/23/08	D8D230261, D8D240355	Selenium	0.00072	0.0072	HAR-07 (dissolved), HAR-14, HAR-15, HAR-16 (dissolved), HAR-17 (dissolved), RS-08, SH-04 (dissolved)
8119568-BLK	Method	04/23/08	D8D240355	Antimony	0.000082	0.00082	HAR-16 (total)
8119568-BLK	Method	04/23/08	D8D240355	Cobalt	0.000014	0.00014	HAR-16 (total)
081286050003A-BLK	Method	05/01/08	1089287, 1089288	Copper	0.00042	0.0042	PZ-001(D), PZ-001(F), RD-21(Z2), RD-22(Z2), RD-23(Z3), RD-50(Z2), RD-54A(Z2), RD-60 (dissolved)
081375713005-BLK	Method	05/14/08	1091457	Mercury	0.000059 J	0.00059	RD-73 (dissolved)
082615713002	Method	09/11/08	1109871	Mercury	0.000073 J	0.00073	RD-98
Dioxins and Furans (pg/L)							
H8B110000-278B	Method	02/07/08	H8B080115	1,2,3,4,6,7,8-HpCDF	1.1	6.6	RD-20
	Method	02/07/08	H8B080115	OCDD	6.6	33	RD-20
	Method	02/07/08	H8B080115	OCDF	3.8	19	RD-20
H8C030000-243B	Method	02/21/08 - 02/27/08	H8B280198 H8B280200	OCDD	13	65	PZ-056, PZ-074, RD-18
H8D300000-511B	Method	04/22/08	H8D250251, H8D250256	OCDD	16 J	80	HAR-07, HAR-14, HAR-15, HAR-16, HAR-17, SH-04, RS-08
H8E190000-502B	Method	04/30/08, 05/13/08	H8E140139, H8E140141	OCDF	3 J	15	ES-10, RD-20
H8E190000-502B	Method	05/13/08	H8E140139	1,2,3,4,6,7,8-HpCDF	1.3 J	6.5	ES-10
H8E190000-502B	Method	05/13/08	H8E140139	1,2,3,4,7,8-HxCDF	0.58 J	2.9	ES-10
8239224	Method	08/18/08-08/21/08	H8H220283	1,2,3,7,8-PeCDF	1.0 J	5	HAR-14

See last page of table for notes and abbreviations.

TABLE D-IV
SUMMARY OF 2008 DATA QUALIFICATION DUE TO BLANK SAMPLE CONTAMINATION
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Blank Sample Identification	Blank Sample Type	Sample Date	Lab Report	Target Analyte(s) Detected in the Blank	Concentration	Corrective Action: Flag Associated Field Sample results with a "U" if less than or equal to this value	Affected Field Samples
Dioxins and Furans (pg/L)							
H8H260000-224B	Method	08/21/08	H8H220277, H8H220283	OCDD	3.7 J	18.5	HAR-15, RD-20
H8H260000-224B	Method	08/21/08	H8H220277, H8H220283	OCDF	3.7 J	18.5	HAR-15, RD-20
8253166	Method	09/04/08	H8I050216, H8I050223	OCDD	7.7 J	38.5	ES-21, HAR-11, HAR-16 (dup)
H8K170000-485B	Method	11/11/08	H8K120224	OCDD	1.2 J	6	RD-20
Volatile Organic Compounds (ug/L)							
RS-07_013108_78_L	Trip	01/31/08	1075786	Carbon disulfide	0.1 J	0.5	RS-13
RD-34A_020608_78_L RD-54A(Z2)_020608_78_L	Trip	02/06/08	1076742	Carbon disulfide	0.1 J	0.5	RD-34B, RD-63 (prim, dup)
ES-06_0207408_78_L	Trip	02/07/08	1076746	Carbon disulfide	0.1 J	0.5	ES-06
RD-33B_021308_78_L	Trip	02/13/08	1077489	Carbon disulfide	0.1 J	0.5	RD-24 (prim, dup)
RD-54B_021408_78_L	Trip	02/14/08	1077663 1077664	Carbon disulfide	0.2 J	1	OS-26, RD-05A, RD-05C (prim, dup), RD-54B (prim, dup), RD-54C
RD-67_030608_78_L	Trip	03/06/08	1080605 1080609	Carbon disulfide	0.1 J	0.5	RD-39B, RD-67 (prim, field), RS-32
HAR-20_031108_78_L	Trip	03/11/08	1081154 1081156	Carbon disulfide	0.3 J	1.5	HAR-27, RD-41A, RD-69
HAR-16_042308_78_TD	Trip	04/23/08	D8D240355	Methylene chloride	0.36 J	3.6	SH-04
L081351AA-BLK	Method	05/01/08- 05/06/08	1089286, 1089974, 1089975	Methylene chloride	0.3 J	3	RD-10 (prim, dup, field, trip), RD-51B, RD-55A, (prim, dup, trip), RD-58B, RS-30, WS-05
L081361AA-BLK	Method	05/07/08- 05/12/08	1090292, 1090340, 1090693, 1090950	Methylene chloride	0.3 J	3	RD-16 (prim, dup, field, trip), RD-44, RD-43B (prim, field, trip), RD-43C (prim, dup), RD-49B (prim), RD-51C (prim), WS-06 (prim, dup)
L081371AA-BLK	Method	05/07/08	1090340	Methylene chloride	0.3 J	3	RD-49B (trip), RD-51C (dup, field, trip)

See last page of table for notes and abbreviations.

TABLE D-IV
SUMMARY OF 2008 DATA QUALIFICATION DUE TO BLANK SAMPLE CONTAMINATION
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Blank Sample Identification	Blank Sample Type	Sample Date	Lab Report	Target Analyte(s) Detected in the Blank	Concentration	Corrective Action: Flag Associated Field Sample results with a "U" if less than or equal to this value	Affected Field Samples
Volatile Organic Compounds (ug/L)							
L081372AA-BLK	Method	05/08/08-05/13/08	1090470	Methylene chloride	0.5 J	5	RD-02 (prim, dup), RD-04 (prim, field, trip), RD-52C (prim, trip)
C081371AA-BLK	Method	05/08/08	1090470, 1090472	Methylene chloride	0.2 J	2	RD-56B (prim, trip), WS-09
138272-BLK	Method	05/09/08	203265	Bromomethane	0.25 J	2.5	RD-16 (split, split-trip)
C081401AA-BLK	Method	05/13/08	1091203	Methylene chloride	0.2 J	2	HAR-18 (prim, dup, trip)
C081411AA-BLK	Method	05/13/08	1091204, 1091205	Methylene chloride	0.2 J	2	HAR-20, RD-13 (prim, dup, trip), RD-48C, RD-52C (prim, trip), RD-55B (prim, field)
C081481AA-BLK	Method	05/14/08	1091459	Methylene chloride	0.3 J	3	HAR-08 (prim, dup), PZ-022 (prim, trip), RD-05C, RD-06 (prim, dup, trip), RD-41A, RD-41B (prim, field), RD-49A (prim, trip)
L081492AA-BLK	Method	05/15/08	1091724, 1091725	Methylene chloride	0.4 J	4	RD-33C, RD-36D (prim), OS-04, WS-09A (dup, trip)
C081492AA-BLK	Method	05/15/08	1091724, 1091726	Methylene chloride	0.3 J	3	RD-36D (field, trip), RD-68A (prim, dup. trip), RD-68B, WS-09 (prim)
RD-06_051408_78_CT	Trip	05/15/08	203407	Acetone	3 J	30	WS-09A
C081501AA-BLK	Method	05/16/08	1091883	Methylene chloride	0.2 J	2	RD-05B (prim, dup, field), RD-43A (prim, trip), RD-48B (prim, trip), RD-66 (prim, trip), RD-71
C081511AA-BLK	Method	05/16/08-05/20/08	1091884, 1092120, 1092592	Methylene chloride	0.3 J	3	OS-17 (prim), RD-18 (prim, dup), RD-33B (prim, dup), RD-57(Z6), RD-58A (prim), RD-59A (prim, trip), RD-59B, RD-59C (prim, dup), RD-67 (prim)
L081501AA-BLK	Method	05/19/08	1092120, 1092121	Methylene chloride	0.3 J	3	ES-32 (prim), RD-58A (trip), RD-67 (field)
L081521AA-BLK	Method	05/19/08	1092121	Methylene chloride	0.3 J	3	ES-32 (trip)
L081511AA-BLK	Method	05/20/08	1092594	Methylene chloride	0.5 J	5	OS-17 (dup, field, trip), RD-38B, RD-39B
RD-43B_081308_19_L	Field	08/13/08	1105458	Carbon disulfide	0.6	3	RD-43B (prim)
8235147	Method	08/13/08	D8H150245	Methylene chloride	0.53 J	5.3	RD-48B (split), RD-68B (split-trip)
8241059	Method	08/18/08-08/21/08	D8H200231, D8H220272	Acetone	2 J	20	RD-05B (split, split-trip), RD-61 (split), RD-70 (split,split-trip)

See last page of table for notes and abbreviations.

TABLE D-IV
SUMMARY OF 2008 DATA QUALIFICATION DUE TO BLANK SAMPLE CONTAMINATION
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Blank Sample Identification	Blank Sample Type	Sample Date	Lab Report	Target Analyte(s) Detected in the Blank	Concentration	Corrective Action: Flag Associated Field Sample results with a "U" if less than or equal to this value	Affected Field Samples
82410598323041-BLK	Method	08/18/08-08/21/08	D8H200231,D8H220272	Methylene chloride	0.32	3.2	RD-05B (split-trip), RD-36D (split-trip), RD-61 (split), RD-70 (split-trip)
Volatile Organic Compounds (ug/L)							
8249056	Method	08/26/08	D8H290324	Methylene chloride	0.89 J	8.9	RD-06 (split), RD-51C (split,split-trip)
8323041	Method	11/06/08-11/11/08	D8K100134, D8K120340	Methylene chloride	0.68 J	6.8	RD-16 (prim, trip), RD-32 (prim, trip), RD-43C (prim, trip)
HAR-11_120208_78_TAD	Trip	12/01/08-12/02/08	D8L040219	Methylene chloride	0.33 J	3.3	HAR-11 (split), HAR-18 (split)
HAR-11_120208_78_L	Trip	12/02/08	1122653	Methylene chloride	0.3 J	3	HAR-11 (prim, dup)
Semi-Volatile Organic Compounds (ug/L)							
RS-32_030608_19H_W RS-32_030608_19R_W	Field Field-Rinsate	03/06/08	8030712	n-Nitrosodimethylamine	0.00048 J 0.00056 J	0.0024 0.0028	RS-32(prim, dup)
W8C0935-BLK1	Method	03/11/08	8031178	n-Nitrosodimethylamine	0.00134 J	0.0067	RD-41A, RD-41B, RD-49A
RD-41B_082808_78_W	Trip	08/28/08	8082931	n-Nitrosodimethylamine	0.031	0.16	HAR-18, RD-01
RD-49C_111008_78_P_W	Trip	11/10/08	8111111	n-Nitrosodimethylamine	0.001391	0.006955	RD-49C (preserved)
RD-49C_111008_78_U_W	Trip	11/10/08	8111111	n-Nitrosodimethylamine	0.001313	0.006565	RD-49C (unpreserved)
W8K0955-BLK1	Method	11/18/08	8111921	n-Nitrosodimethylamine	0.003194	0.01597	RD-01
Fuel Hydrocarbons (ug/L)							
8318662-BLK	Method	11/10/08	D8K120340	Gasoline Range Organics	5.6 J	28	RD-32 (split)
Naturally Occurring Constituents of Concern (mg/L)							
08050196101A-BLK	Method	02/18/08	1078005	Fluoride	0.72	3.6	PZ-103
08087691401A-BLK	Method	03/11/08	1081154	Ammonia-N	0.034 J	0.17	RD-41A, RD-41B, RD-49A
08241691401A	Method	08/19/08-08/26/08	1106202, 1107263	Ammonia-N	0.035 J	0.175	RD-49C, RD-51C, RD-55A
082420014A	Method	08/27/08-08/28/08	1107481, 1107482, 1107653, 1101654	Formaldehyde	12 J ug/L	60 ug/L	HAR-07, HAR-08, HAR-18 (prim), RD-41A, RD-41B, RD-49B, RD-55B
083120015A	Method	11/05/08-11/06/08	1118758, 1119014	Formaldehyde	12 J ug/L	60 ug/L	HAR-20, RD-02, RD-58A
08316691401A	Method	11/06/08	1119014	Ammonia-N	0.038 J	0.19	HAR-20, RD-58A
08329691401A	Method	11/18/08-11/19/08	1120885, 1121082	Ammonia-N	0.034 J	0.17	RD-01, RD-67

See last page of table for notes and abbreviations.

TABLE D-IV
NOTES AND ABBREVIATIONS

1.	mg/L	=	Milligrams per liter.
2.	pg/L	=	Picograms per liter.
3.	ug/L	=	Micrograms per liter.
4.	prim	=	Primary sample.
5.	dup	=	Duplicate sample.
6.	field	=	Field equipment blank.
7.	field-rinsate	=	Rinsate sample of field equipment such as disposable bailers, tubing, etc.
8.	method	=	Method blank.
9.	split	=	Split sample.
10.	split-trip	=	Trip blank analyzed by split laboratory.
11.	trip	=	Trip blank analyzed by primary laboratory.
12.	J	=	Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL).
13.	U	=	Not detected; numerical value represents the Method Detection Limit for that analyte.
14.	Z	=	FLUTe sample port number.
15.	Total	=	Total metals. Total metal samples were not filtered, but were preserved in the field.
16.	Dissolved	=	Dissolved metals. Dissolved metal samples were filtered using a 0.45 micron filter and preserved in the field. Unless otherwise stated, all affected field samples were dissolved metals.
17.	OCDD	=	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin
	OCDF	=	1,2,3,4,6,7,8,9-Octachlorodibenzofuran
	1,2,3,4,6,7,8-HpCDF	=	1,2,3,4,6,7,8-Heptachlorodibenzofuran
	1,2,3,4,7,8-HxCDF	=	1,2,3,4,7,8-Hexachlorodibenzofuran
	1,2,3,7,8-PeCDF	=	1,2,3,7,8-Pentachlorodibenzofuran

TABLE D-V

SUMMARY OF 2008 DATA QUALIFICATION DUE TO SURROGATE RECOVERY EXCEEDANCE
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Lab Report	Affected Field Samples	Date Sampled	Method	Surrogate	%Surrogate Criteria	%Recovery	Target Analyte(s)	Concentration (ug/L)	Corrective Action: SVOC Qualification
Semi-Volatile Organic Compounds (ug/L)									
1075787	RS-16	02/01/08	8270C	Phenol-d6	10-82	0	1,2,4-Trichlorobenzene	1 U	UJ
				2-Fluorophenol	10-103	0	1,2-Diphenylhydrazine	1 U	UJ
				2,4,6-Tribromophenol	20-159	0	1,3-Dinitrobenzene	2 U	UJ
				Nitrobenzene-d5	51-123	0	2,4,6-Trichlorophenol	1 U	UJ
				2-Fluorobiphenyl	63-118	0	2,4-Dichlorophenol	1 U	UJ
				Terphenyl-d14	52-151	0	2,4-Dimethylphenol	3 U	UJ
							2,4-Dinitrophenol	19 U	UJ
							2,4-Dinitrotoluene	1 U	UJ
							2,6-Dinitrotoluene	1 U	UJ
							2-Chloronaphthalene	2 U	UJ
							2-Chlorophenol	1 U	UJ
							2-Nitrophenol	1 U	UJ
							3,3'-Dichlorobenzidine	2 U	UJ
							4,6-Dinitro-2-methylphenol	5 U	UJ
							4-Bromophenyl-phenylether	1 U	UJ
							4-Chloro-3-methylphenol	1 U	UJ
							4-Chlorophenyl-phenylether	2 U	UJ
							4-Nitrophenol	10 U	UJ
							Acenaphthene	1 U	UJ
							Acenaphthylene	1 U	UJ
							Anthracene	1 U	UJ
							Benzidine	19 U	UJ
							Benzo(a)anthracene	1 U	UJ
							Benzo(a)pyrene	1 U	UJ
							Benzo(b)fluoranthene	1 U	UJ
							Benzo(g,h,i)perylene	1 U	UJ
							Benzo(k)fluoranthene	1 U	UJ
							bis(2-Chloroethoxy)methane	1 U	UJ
							bis(2-Chloroethyl)ether	1 U	UJ
							bis(2-Chloroisopropyl)ether	1 U	UJ
							bis(2-Ethylhexyl)phthalate	2 U	UJ

See last page of table for notes and abbreviations.

TABLE D-V
SUMMARY OF 2008 DATA QUALIFICATION DUE TO SURROGATE RECOVERY EXCEEDANCE
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Lab Report	Affected Field Samples	Date Sampled	Method	Surrogate	%Surrogate Criteria	%Recovery	Target Analyte(s)	Concentration (ug/L)	Corrective Action: SVOC Qualification
Semi-Volatile Organic Compounds (ug/L)									
1075787	RS-16	02/01/08	8270C	Phenol-d6	10-82	0	Butylbenzylphthalate	2 U	UJ
				2-Fluorophenol	10-103	0	Chrysene	1 U	UJ
				2,4,6-Tribromophenol	20-159	0	Dibenz(a,h)anthracene	1 U	UJ
				Nitrobenzene-d5	51-123	0	Diethylphthalate	2 U	UJ
				2-Fluorobiphenyl	63-118	0	Dimethylphthalate	2 U	UJ
				Terphenyl-d14	52-151	0	Di-n-butylphthalate	2 U	UJ
							Di-n-octylphthalate	2 U	UJ
							Fluoranthene	1 U	UJ
							Fluorene	1 U	UJ
							Hexachlorobenzene	1 U	UJ
							Hexachlorobutadiene	1 U	UJ
							Hexachloroethane	1 U	UJ
							Indeno(1,2,3-cd)pyrene	1 U	UJ
							Isophorone	1 U	UJ
							Naphthalene	1 U	UJ
							Nitrobenzene	1 U	UJ
							N-Nitroso-di-n-propylamine	1 U	UJ
							N-Nitrosodiphenylamine	2 U	UJ
							Pentachlorophenol	3 U	UJ
							Phenanthrene	1 U	UJ
							Phenol	1 U	UJ
D8D240355	SH-04	04/23/08	8270C	2-Fluorophenol	51-120	48	1,2,4,5-Tetrachlorobenzene	1.6 U	UJ
				2,4,6-Tribromophenol	57-120	54	1,2,4-Trichlorobenzene	0.27 U	UJ
				2-Fluorobiphenyl	49-120	38	1,3,5-Trinitrobenzene	3.8 U	UJ
							1,3-Dichlorobenzene	0.28 U	UJ
							1,3-Dinitrobenzene	1.9 U	UJ
							1,4-Naphthoquinone	1.9 U	UJ
							1,4-Phenylenediamine	4.8 U	UJ
							1-Naphthylamine	0.95 U	UJ
							2,3,4,6-Tetrachlorophenol	1.9 U	UJ

See last page of table for notes and abbreviations.

TABLE D-V
SUMMARY OF 2008 DATA QUALIFICATION DUE TO SURROGATE RECOVERY EXCEEDANCE
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Lab Report	Affected Field Samples	Date Sampled	Method	Surrogate	%Surrogate Criteria	%Recovery	Target Analyte(s)	Concentration (ug/L)	Corrective Action: SVOC Qualification
D8D240355	SH-04	04/23/08	8270C	2-Fluorophenol	51-120	48	2,4,5-Trichlorophenol	0.43 U	UJ
				2,4,6-Tribromophenol	57-120	54	2,4,6-Trichlorophenol	0.28 U	UJ
				2-Fluorobiphenyl	49-120	38	2,4-Dichlorophenol	0.61 U	UJ
							2,4-Dimethylphenol	0.55 U	UJ
							2,4-Dinitrophenol	9.5 U	UJ
							2,4-Dinitrotoluene	0.21 U	UJ
							2,6-Dichlorophenol	1.3 U	UJ
							2,6-Dinitrotoluene	0.3 U	UJ
							2-Acetylaminofluorene	6.6 U	UJ
							2-Chloronaphthalene	0.25 U	UJ
							2-Chlorophenol	1.9 U	UJ
							2-Methylnaphthalene	0.28 U	UJ
							2-Methylphenol	0.93 U	UJ
							2-Naphthylamine	0.95 U	UJ
							2-Nitroaniline	0.3 U	UJ
							2-Nitrophenol	0.37 U	UJ
							2-Picoline	1.1 U	UJ
							3,3'-Dichlorobenzidine	1.9 U	UJ
							3,3'-Dimethylbenzidine	3.8 U	UJ
							3-Methylcholanthrene	1.6 U	UJ
							3-Methylphenol	0.24 U	UJ
							3-Nitroaniline	0.25 U	UJ
							4,6-Dinitro-2-Methylphenol	3.8 U	UJ
							4-Aminobiphenyl	4.3 U	UJ
							4-Bromophenyl phenyl ether	0.41 U	UJ
							4-Chloro-3-Methylphenol	0.86 U	UJ
							4-Chloroaniline	0.28 U	UJ
							4-Chlorophenyl phenyl ether	0.26 U	UJ
							4-Methylphenol	0.24 U	UJ
							4-Nitroaniline	1.9 U	UJ

See last page of table for notes and abbreviations.

TABLE D-V
SUMMARY OF 2008 DATA QUALIFICATION DUE TO SURROGATE RECOVERY EXCEEDANCE
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Lab Report	Affected Field Samples	Date Sampled	Method	Surrogate	%Surrogate Criteria	%Recovery	Target Analyte(s)	Concentration (ug/L)	Corrective Action: SVOC Qualification
D8D240355	SH-04	04/23/08	8270C	2-Fluorophenol	51-120	48	4-Nitrophenol	1.2 U	UJ
				2,4,6-Tribromophenol	57-120	54	4-Nitroquinoline-1-oxide	19 U	UJ
				2-Fluorobiphenyl	49-120	38	5-Nitro-o-toluidine	1.3 U	UJ
							7,12-Dimethylbenz(a)anthracene	1.5 U	UJ
							Acenaphthene	0.27 U	UJ
							Acenaphthylene	0.47 U	UJ
							Acetophenone	0.23 U	UJ
							alpha, alpha-Dimethylphenethylami	19 U	UJ
							Aniline	1.9 U	UJ
							Anthracene	0.4 U	UJ
							Aramite	19 U	UJ
							Benzo(a)anthracene	0.33 U	UJ
							Benzo(a)pyrene	0.29 U	UJ
							Benzo(b)fluoranthene	0.5 U	UJ
							Benzo(ghi)perylene	0.48 U	UJ
							Benzo(k)fluoranthene	0.44 U	UJ
							Benzyl alcohol	0.22 U	UJ
							bis(2-Chloroethoxy)methane	0.92 U	UJ
							bis(2-Chloroethyl) ether	0.39 U	UJ
							bis(2-Chloroisopropyl) ether	0.27 U	UJ
							bis(2-Ethylhexyl) phthalate	0.53 U	UJ
							Butyl benzyl phthalate	0.95 U	UJ
							Chrysene	0.51 U	UJ
							Dibenz(a,h)anthracene	0.48 U	UJ
							Dibenzofuran	0.28 U	UJ
							Diethyl phthalate	0.36 U	UJ
							Dimethyl phthalate	0.2 U	UJ
							Di-n-butyl phthalate	1.1 U	UJ
							Di-n-octyl phthalate	0.33 U	UJ
							Diphenylamine	1 U	UJ

See last page of table for notes and abbreviations.

TABLE D-V
SUMMARY OF 2008 DATA QUALIFICATION DUE TO SURROGATE RECOVERY EXCEEDANCE
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Lab Report	Affected Field Samples	Date Sampled	Method	Surrogate	%Surrogate Criteria	%Recovery	Target Analyte(s)	Concentration (ug/L)	Corrective Action: SVOC Qualification
D8D240355	SH-04	04/23/08	8270C	2-Fluorophenol	51-120	48	Ethyl methanesulfonate	0.9 U	UJ
				2,4,6-Tribromophenol	57-120	54	Fluoranthene	0.19 U	UJ
				2-Fluorobiphenyl	49-120	38	Fluorene	0.29 U	UJ
							Hexachlorobenzene	0.63 U	UJ
							Hexachlorobutadiene	0.48 U	UJ
							Hexachlorocyclopentadiene	1.5 U	UJ
							Hexachloroethane	0.44 U	UJ
							Hexachloropropene	1.9 U	UJ
							Indeno(1,2,3-cd)pyrene	0.62 U	UJ
							Isodrin	1.7 U	UJ
							Isophorone	0.2 U	UJ
							Isosafrole	1.9 U	UJ
							Methapyrilene	19 U	UJ
							Methyl methanesulfonate	0.95 U	UJ
							Naphthalene	0.28 U	UJ
							Nitrobenzene	0.77 U	UJ
							n-Nitrosodi-n-butylamine	1.2 U	UJ
							n-Nitrosodiphenylamine	0.42 U	UJ
							n-Nitrosomethylethylamine	1.7 U	UJ
							n-Nitrosomorpholine	1.9 U	UJ
							n-Nitrosopiperidine	1.9 U	UJ
							n-Nitrosopyrrolidine	0.76 U	UJ
							o,o,o-Triethyl phosphorothioate	1.9 U	UJ
							o-Toluidine	1.3 U	UJ
							p-Dimethylaminoazobenzene	1.9 U	UJ
							Pentachlorobenzene	1.9 U	UJ
							Pentachloroethane	1.9 U	UJ
							Pentachloronitrobenzene	1.9 U	UJ
							Pentachlorophenol	0.77 U	UJ
							Phenacetin	1 U	UJ

See last page of table for notes and abbreviations.

TABLE D-V
SUMMARY OF 2008 DATA QUALIFICATION DUE TO SURROGATE RECOVERY EXCEEDANCE
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Lab Report	Affected Field Samples	Date Sampled	Method	Surrogate	%Surrogate Criteria	%Recovery	Target Analyte(s)	Concentration (ug/L)	Corrective Action: SVOC Qualification
D8D240355	SH-04	04/23/08	8270C	2-Fluorophenol	51-120	48	Phenanthrene	0.25 U	UJ
				2,4,6-Tribromophenol	57-120	54	Phenol	1.9 U	UJ
				2-Fluorobiphenyl	49-120	38	Pronamide	1.9 U	UJ
							Pyrene	0.35 U	UJ
							Pyridine	1.6 U	UJ
							Safrole	1.1 U	UJ
Volatile Organic Compounds (ug/L)									
D8D230261	HAR-14	04/22/08	8260B-SIM	Dibromofluoromethane	80-130	173	1,4-Dioxane	67	J
D8D240355	HAR-16	04/23/08	8260B-SIM	Dibromofluoromethane	80-130	154	1,4-Dioxane	24	J
	HAR-17	04/23/08	8260B-SIM	Dibromofluoromethane	80-130	143	1,4-Dioxane	3.8	J
	SH-04	04/23/08	8260B-SIM	Dibromofluoromethane	80-130	134	1,4-Dioxane	22	J
Polychlorinated Biphenyls (ug/L)									
D8D230261	HAR-15	04/22/08	8082	Decachlorobiphenyl	50-138	37	Aroclor 1016	0.12 U	UJ
							Aroclor 1221	0.21 U	UJ
							Aroclor 1232	0.16 U	UJ
							Aroclor 1242	0.1 U	UJ
							Aroclor 1248	0.09 U	UJ
							Aroclor 1254	0.11 U	UJ
							Aroclor 1260	0.16 U	UJ

See last page of table for notes and abbreviations.

TABLE D-V

NOTES AND ABBREVIATIONS

1.	ug/L	=	Micrograms per liter.
2.	J	=	Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL), or concentration estimated due to analytical quality control deficiencies.
3.	R	=	Rejected result.
4.	U	=	Not detected.
5.	UJ	=	Not detected. Estimated detection limit as a result of analytical quality control deficiencies.
6.	SVOC Qualification	=	If 2 or more surrogates in either semi-volatile fraction (base/neutral or acid fraction) have % recoveries greater than the upper acceptance limit, the associated target analyte is qualified “J” for positive results and not qualified for non-detects. If 2 or more surrogates in either semi-volatile fraction (base/neutral or acid fraction) have % recoveries >10% but less than the lower acceptance limit, the associated target analyte is qualified “J” for positive results and “UJ” for non-detects. In the case where 2 or more surrogates are out in either fraction, one with a recovery greater than the upper acceptance limit and one with a recovery >10% but less than the lower acceptance limit, the associated target analyte is qualified “J” for positive results and “UJ” for non-detects. If any surrogate in either semi-volatile fraction (base/neutral or acid fraction) show less than 10% recovery, associated target analyte positive results, within that fraction, are qualified “J” and non-detects are qualified “R”.
7.	VOC Qualification	=	If the surrogate percent recovery is greater than the upper acceptance limit, associated target analyte positive results are qualified “J” and non-detects should not be qualified. If the surrogate percent recovery is less than the lower acceptance limit associated target analyte positive results are qualified “J” and non-detects are qualified “UJ”. If the surrogate percent recovery is less than 10% associated target analyte positive results are qualified “J” and non-detects are qualified “R”.
8.	Polychlorinated Biphenyls Qualification	=	If the surrogate percent recovery is greater than the upper acceptance limit, associated target analyte positive results are qualified “J” and non-detects should not be qualified. If the surrogate percent recovery is less than the lower acceptance limit associated target analyte positive results are qualified “J” and non-detects are qualified “UJ”. If the surrogate percent recovery is less than 10% associated target analyte positive results are qualified “J” and non-detects are qualified “R”.

TABLE D-VI
SUMMARY OF 2008 DATA QUALIFICATION DUE TO LCS/LCSD, MS/MSD RECOVERY EXCEEDANCE
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Inorganics / General Minerals

MS/MSD or LCS/LSCD Sample Identification	Sample Type	Lab Report	Target Analyte(s) Outside of Recovery Limits	% Recovery Criteria	% Recovery	Affected Field Samples	Date Sampled	Corrective Action: Inorganics Qualification
08072021201A-LCS	LCS	1080941	Total Dissolved Solids	80-20	75	RD-66, RD-70, RD-71	03/10/08	J
08141196601A-MS	MS	1091204	Fluoride	90-125	83	PZ-108, PZ-121	05/13/08	J

Metals

MS/MSD Sample Identification	Sample Type	Lab Report	Target Analyte(s) Outside of Recovery Limits	% Recovery Criteria	% Recovery	Affected Field Samples	Date Sampled	Corrective Action: Metals Qualification
080396050002A-MS	MS	1076194	Selenium	75-125	136	RD-07(Z3), RD-50	02/05/08	J
080446050001A-MS/MSD	MS/MSD	1076742, 1076743, 1076744	Antimony	75-125	68, 68	RD-23(Z3), RD-33A(Z2), RD-34A (dissolved, total), RD-34B, RD-54A(Z2), RD-57(Z8)	02/06/08 - 02/07/08	UJ
080446050001A-MS	MS	1076742	Arsenic	75-125	135	RD-54A(Z2)	02/06/08	J
080446050001A-MS/MSD	MS/MSD	1076743	Chromium	83-116	136, 128	RD-34A (total)	02/06/08	J
080446050001A-MS/MSD	MS/MSD	1076742, 1076743	Copper	75-125	140, 143	RD-23(Z3), RD-34A (dissolved, total), RD-34B	02/06/08	J
080446050001A-MS/MSD	MS/MSD	1076742	Lead	75-125	140, 141	RD-34B	02/06/08	J
080446050001A-MS/MSD	MS/MSD	1076743	Nickel	85-117	133, 126	RD-34A (dissolved, total)	02/06/08	J
080561848002-MS/MSD	MS/MSD	1078397	Iron	75-125	138, 168	RD-15	02/20/08	J
080536050003A-MSD	MSD	1078397	Selenium	75-125	129	RD-15	02/20/08	J

Perchlorate

MS/MSD Sample Identification	Sample Type	Lab Report	Target Analyte(s) Outside of Recovery Limits	% Recovery Criteria	% Recovery	Affected Field Samples	Date Sampled	Corrective Action: Perchlorate Qualification
08136621701B-MS	MS	1089974	Perchlorate	80-125	75	WS-05	05/06/08	UJ
08233621701A-MS	MS	1104901	Perchlorate	80-120	78	HAR-24, HAR-25	08/11/08	J
08240621701A-MS	MS	1106202	Perchlorate	80-120	69	RD-49C, RD-51B	08/19/08	UJ

See last page of table for notes and abbreviations.

TABLE D-VI
SUMMARY OF 2008 DATA QUALIFICATION DUE TO LCS/LCSD, MS/MSD RECOVERY EXCEEDANCE
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Semi-Volatile Organic Compounds (SVOCs)

MS/MSD or LCS/LSCD Sample Identification	Sample Type	Lab Report	Target Analyte(s) Outside of Recovery Limits	% Recovery Criteria	% Recovery	Affected Field Samples	Date Sampled	Corrective Action: SVOC Qualification
08246WAB026	LCS/LCSD	1107653, 1107654	N-Nitrosodimethylamine	47-80	43, 44	HAR-18, RD-01, RD-41A, RD-41B	08/28/08	R
			Dimethylphthlate	46-127	21, 25	HAR-18, RD-01, RD-41A, RD-41B	08/28/08	R
			Diethylphthlate	79-109	70, 67	HAR-18, RD-01, RD-41A, RD-41B	08/28/08	R
08309WAB026	LCS	1117608	1,3-Dinitrobenzene	86-117	80	RD-04, RD-10, WS-09	10/29/08	R
			2,4-Dichlorophenol	80-109	78	RD-04, RD-10, WS-09	10/29/08	R
			2,4-Dinitrotoluene	81-115	72	RD-04, RD-10, WS-09	10/29/08	R
			2,6-Dinitrotoluene	85-115	72	RD-04, RD-10, WS-09	10/29/08	R
			2-Nitrophenol	86-120	79	RD-04, RD-10, WS-09	10/29/08	R
			4-Bromophenyl phenyl ether	82-117	76	RD-04, RD-10, WS-09	10/29/08	R
			4-Chlorophenylphenyl ether	82-111	73	RD-04, RD-10, WS-09	10/29/08	R
			Acenaphthene	82-110	75	RD-04, RD-10, WS-09	10/29/08	R
			Acenaphthylene	80-122	76	RD-04, RD-10, WS-09	10/29/08	R
			Anthracene	81-111	77	RD-04, RD-10, WS-09	10/29/08	R
			Benzo(a)anthracene	80-110	74	RD-04, RD-10, WS-09	10/29/08	R
			bis(2-Chloroethyl) ether	77-108	72	RD-04, RD-10, WS-09	10/29/08	R
			Chrysene	82-112	75	RD-04, RD-10, WS-09	10/29/08	R
			Diethyl phthalate	79-109	72	RD-04, RD-10, WS-09	10/29/08	R
			Di-n-butyl phthalate	83-114	72	RD-04, RD-10, WS-09	10/29/08	R
			Fluoranthene	76-106	69	RD-04, RD-10, WS-09	10/29/08	R
			Fluorene	82-113	74	RD-04, RD-10, WS-09	10/29/08	R
			Hexachlorobenzene	81-118	74	RD-04, RD-10, WS-09	10/29/08	R
			Isophorone	74-117	72	RD-04, RD-10, WS-09	10/29/08	R
			Naphthalene	77-107	71	RD-04, RD-10, WS-09	10/29/08	R
			Nitrobenzene	75-109	72	RD-04, RD-10, WS-09	10/29/08	R
			Phenanthrene	83-112	79	RD-04, RD-10, WS-09	10/29/08	R
08310WAI026	LCS/LCSD	1118278	2,4-Dinitrotoluene	81-115	80, 79	RD-51B, RD-51C, WS-05	11/03/08	R
			2,6-Dinitrotoluene	85-115	83, 81	RD-51B, RD-51C, WS-05	11/03/08	R
	LCS	1118278	4-Chlorophenylphenyl ether	82-111	80	RD-51B, RD-51C, WS-05	11/03/08	R
			Di-n-butyl phthalate	83-114	81	RD-51B, RD-51C, WS-05	11/03/08	R
08313WAB026	LCSD	1119014	2,6-Dinitrotoluene	85-115	83	HAR-20, RD-58A	11/06/08	R
			2,4-Dinitrotoluene	81-115	80	HAR-20, RD-58A	11/06/08	R
			Diethyl phthalate	79-109	78	HAR-20, RD-58A	11/06/08	R
W8K0507	MSD	8110755	N-Nitrosodimethylamine	70-130	218	HAR-20	11/06/08	J
W8L0229	LCS	8120227	N-Nitrosodimethylamine	70-130	140	HAR-18	12/01/08	J

See last page of table for notes and abbreviations.

TABLE D-VI
SUMMARY OF 2008 DATA QUALIFICATION DUE TO LCS/LCSD, MS/MSD RECOVERY EXCEEDANCE
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Volatile Organic Compounds (VOCs)

MS/MSD or LCS/LSCD Sample Identification	Sample Type	Lab Report	Target Analyte(s) Outside of Recovery Limits	% Recovery Criteria	% Recovery	Affected Field Samples	Date Sampled	Corrective Action: VOC Qualification
Y080383AB-MSD	MSD	1076192	1,1,2-Trichloro-1,2,2-trifluoroethane	78-146	150	SH-03	02/05/08	J
C080521AA-MS	MS	1077664, 1077845	Trichloroethene	80-139	53	RD-05C (field, trip), RD-43A (prim, dup, field), RD-43B, RD-43C (prim, dup, field), RD-47, OS-26 (trip)	02/14/08 - 02/15/08	UJ
Y082532AA	MS	1108821	cis-1,2-Dichloroethene	83-126	165	ES-03, ES-17, ES-21, ES-22, HAR-04	09/05/08	J

Radionuclides

MS/MSD or LCS/LSCD Sample Identification	Sample Type	Lab Report	Target Analyte(s) Outside of Recovery Limits	% Recovery Criteria	% Recovery	Affected Field Samples	Date Sampled	Corrective Action: Radiological Qualification
LCS R806177-02	LCS	8943	Gross Alpha	71-129	134	RD-98	06/26/08	J

See last page of table for notes and abbreviations.

TABLE D-VI

NOTES AND ABBREVIATIONS

1.	LCS	=	Laboratory control standard.
2.	LCSD	=	Laboratory control standard duplicate.
3.	MS	=	Matrix spike.
4.	MSD	=	Matrix spike duplicate.
5.	J	=	Estimated value. Analyte detected at a level less than the Reporting Limit(RL) and greater than or equal to the Method Detection Limit (MDL).
6.	UJ	=	Not detected. Estimated detection limit as a result of quality control recoveries exceeding the acceptance limit range.
7.	R	=	The analyte result was rejected; presence or absence of the analyte cannot be verified.
8.	Z	=	FLUTe sample port number.
9.	total	=	Total metals. Total metal samples were not filtered, but were preserved in the field.
10.	dissolved	=	Dissolved metals. Dissolved metal samples were filtered using a 0.45 micron filter and preserved in the field. Unless otherwise stated, all affected field samples were dissolved metals.
11.	prim	=	Primary sample.
12.	dup	=	Duplicate sample.
13.	field	=	Field equipment blank.
14.	trip	=	Trip blank.
15.	General Minerals Qualification	=	If % Recovery (% Rec) is less than the lower acceptance limit and >10%, the associated target analyte is qualified "J" for positive results and "UJ" for non-detects. If the % Rec is <10%, positive results are qualified "J" and non-detects are qualified "R". If % Rec is greater than the 120%, the associated target analyte is qualified "J" for positive results. If % Rec is greater than 150%, the associated target analyte is qualifier "R", and not qualified for non-detects.
16.	Metals Qualification	=	LCS: If the % Recovery is <50%, qualify results >MDL as “J” and non-detects as “R”. If the % Recovery is 50-79%, qualify results >MDL as “J” and non-detects as “UJ”. If the % Recovery is >120%, qualify results > MDL as “J” and non-detects should not be qualified. If the % Recovery is >150%, qualify all results as “R”. MS/MSD: If the sample concentration is 4X > MS spike level and the LCS results are valid, then ignore out of range % Recovery in the MS; no action required. If the % Recovery is <30%, qualify results >MDL as “J” and non-detects as “R”. If the % Recovery is 30-74%, qualify results >MDL as “J” and non-detects as “UJ”. If the % Recovery is >125%, qualify results >MDL as “J” and non-detects should not be qualified. Only qualify project samples based on MS/MSD non-compliance if the MS/MSD is an actual project sample.
17.	Perchlorate Qualification	=	If % Recovery (% Rec) is less than the lower acceptance limit and >10%, the associated target analyte is qualified "J" for positive results and "UJ" for non-detects. If the % Rec is <10%, positive results are qualified "J" and non-detects are qualified "R". If % Rec is greater than the 120%, the associated target analyte is qualified "J" for positive results. If % Rec is greater than 150%, the associated target analyte is qualifier "R", and not qualified for non-detects.

18. Radiological Analyses = If the normalized difference is between 1.96 and 2.58 or -1.96 and -2.58, qualify sample results as “J”. Qualify results less than minimal detectable concentration (MDC) as “J” if the normalized difference shows a negative bias.
If the normalized difference is greater than 2.58 or less than -2.58, qualify sample results as “R”.
Normalized difference = (LCSmeasured - LCS expected) / ((TPUmeasured)^2 + (TPUexpected)^2)^1/2

19. SVOC / VOC Qualification = If the LCS % Recovery is greater than the upper acceptance limit, associated target analyte positive results are qualified “J” and non-detects should not be qualified. If the LCS % Recovery is less than the lower acceptance limit associated target analyte positive results are qualified “J” and non-detects are qualified “R”. If the MS/MSD is from a project sample and the % Recovery greater than the upper acceptance limit, associated target analyte positive results are qualified "J" and non-detects should not be qualified.
If the MS/MSD % Recovery is >10%, but less than the lower acceptance limit, associated analyte positive results are qualified “J” and non-detects are qualified “UJ”. If the MS/MSD % Recovery is less than 10%, associated target analyte positive results are qualified “J” and non-detects are qualified “R”.

20. VOC Qualification = If the LCS % Recovery is greater than the upper acceptance limit, associated target analyte positive results are qualified “J” and non-detects should not be qualified. If the LCS % Recovery is less than the lower acceptance limit associated target analyte positive results are qualified “J” and non-detects are qualified “R”. If the MS/MSD is from a project sample and the % Recovery greater than the upper acceptance limit, associated target analyte positive results are qualified "J" and non-detects should not be qualified.
If the MS/MSD % Recovery is >10%, but less than the lower acceptance limit, associated analyte positive results are qualified “J” and non-detects are qualified “UJ”. If the MS/MSD % Recovery is less than 10%, associated target analyte positive results are qualified “J” and non-detects are qualified “R”.
TPU = Total Propagated Uncertainty.

TABLE D-VII
SUMMARY OF 2008 DATA QUALIFICATION OF SAMPLES BY MECX
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Sample Date	Sample Type	Analyte	Data Validation Issues	Qualified Result	Project and Lab Qualifier Codes	Units	Corrective Action: MECX Validation Qualifier/ Result Value Change	Lab
Shallow Wells									
RS-32	03/06/08	Primary	n-Nitrosodimethylamine	Reported result is less than 5X or 10X than the associated field blank.	0.00034	J	ug/L	U	Weck
		Duplicate	n-Nitrosodimethylamine	Reported result is less than 5X or 10X than the associated field blank.	0.00047	J	ug/L	U	Weck
SH-02	02/05/08	Primary	Gamma-BHC	Intercolumn % difference is greater than 25%.	0.013		ug/L	J	Lan
			Heptachlor	Intercolumn % difference is greater than 100%.	0.0037	J	ug/L	NJ	Lan
			Endosulfan I	Intercolumn % difference is greater than 100%.	0.040		ug/L	NJ	Lan
SH-03	02/05/08	Primary	Gamma-BHC	Intercolumn % difference is greater than 100%.	0.0030	J	ug/L	NJ	Lan
			Endosulfan I	Intercolumn % difference is greater than 100%.	0.036		ug/L	NJ	Lan
SH-04	02/04/08	Primary	Beta-BHC	Intercolumn % difference is greater than 100%.	0.0071	J	ug/L	NJ	Lan
			Gamma-BHC	Intercolumn % difference is greater than 100%.	0.0055	J	ug/L	NJ	Lan
			Endosulfan I	Intercolumn % difference is greater than 25%.	0.012		ug/L	J	Lan
SH-08	02/05/08	Primary	Endosulfan I	Intercolumn % difference is greater than 100%.	0.027		ug/L	NJ	Lan
SH-09	02/05/08	Primary	Endosulfan I	Intercolumn % difference is greater than 100%.	0.042		ug/L	NJ	Lan
Chatsworth Formation Wells									
HAR-07	02/27/08	Primary	n-Nitrosodimethylamine	Matrix Spike recovery was outside acceptance criteria. Surrogate recovery was outside recovery limits.	0.034		ug/L	J	Weck
HAR-08	05/14/08	Split	n-Nitrosodiethylamine	Prepared or analyzed outside of holding time. Surrogate recovery outside acceptance criteria.	0.005		ug/L	UJ	Babcock
			n-Nitrosodimethylamine	Prepared or analyzed outside of holding time. Surrogate recovery outside acceptance criteria. Result changed from 0.01	0.0074		ug/L	J	Babcock

TABLE D-VII
SUMMARY OF 2008 DATA QUALIFICATION OF SAMPLES BY MECX
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Sample Date	Sample Type	Analyte	Data Validation Issues	Qualified Result	Project and Lab Qualifier Codes	Units	Corrective Action: MECX Validation Qualifier/ Result Value Change	Lab
HAR-08	05/14/08	Split	n-Nitrosodi-n-propylamine	Prepared or analyzed outside of holding time. Surrogate recovery outside acceptance criteria.	0.007		ug/L	UJ	Babcock
HAR-16	04/23/08	Split	n-Nitrosodiethylamine	LCS/LCSD recovery outside acceptance criteria. RL and result changed from 0.005	2.5	U	ug/L	UJ	Babcock
			n-Nitrosodimethylamine	LCS/LCSD RPD outside acceptance criteria. Result changed from 7.	6.8		ug/L	J	Babcock
			n-Nitrosodi-n-propylamine	LCS/LCSD recovery outside acceptance criteria. RL and result changed from 0.007.	3.5	U	ug/L	UJ	Babcock
HAR-18	05/13/08	Primary	n-Nitrosodimethylamine	Lab flag is incorrect. Result is a detect.	0.59	J	ug/L		Weck
HAR-20	08/20/08	Primary	n-Nitrosodimethylamine	Reported result is less than 5X or 10X than the associated trip blank.	0.055		ug/L	U	Weck
OS-28	03/04/08	Primary	n-Nitrosodimethylamine	Reported result is less than 5X or 10X than the associated method blank.	0.00054	J	ug/L	U	Weck
RD-04	02/27/08	Primary	n-Nitrosodimethylamine	Reported result is less than 5X or 10X than the associated method blank.	0.00076	J	ug/L	U	Weck
RD-05B	02/21/08	Primary	Chloroethane	The sample result was edited to report two significant figures rather than one.	0.1	J	ug/L	0.11 J	Lan
RD-05C	02/14/08	Split	Carbon Disulfide	The sample result was edited to report two significant figures rather than one.	0.3	J	ug/L	0.27 J	C&T
RD-08	03/03/08	Primary	Anthracene	Concentration reported on secondary column was below the method detection limit.	0.045	J	ug/L	0.04 U	Lan
RD-10	02/28/08	Primary	n-Nitrosodimethylamine	Reported result is less than 5X or 10X than the associated method blank.	0.00042	J	ug/L	U	Weck
RD-41A	03/11/08	Primary	n-Nitrosodimethylamine	Reported result is less than 5X or 10X than the associated method blank.	0.0014	J	ug/L	U	Weck
RD-41B	03/11/08	Primary	n-Nitrosodimethylamine	Reported result is less than 5X or 10X than the associated method blank.	0.0012	J	ug/L	U	Weck
RD-44	03/03/08	Primary	n-Nitrosodimethylamine	Reported result is less than 5X or 10X than the associated method blank.	0.00034	J	ug/L	U	Weck
RD-48C	02/26/08	Split	Carbon Disulfide	The sample result was edited to report two significant figures rather than one.	0.3	J	ug/L	0.26 J	C&T

TABLE D-VII
SUMMARY OF 2008 DATA QUALIFICATION OF SAMPLES BY MECX
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Sample Date	Sample Type	Analyte	Data Validation Issues	Qualified Result	Project and Lab Qualifier Codes	Units	Corrective Action: MECX Validation Qualifier/ Result Value Change	Lab
RD-49A	03/11/08	Primary	n-Nitrosodimethylamine	Reported result is less than 5X or 10X than the associated method blank.	0.001	J	ug/L	U	Weck
RD-49C	02/28/08	Primary	n-Nitrosodimethylamine	Matrix Spike recovery was outside acceptance criteria.	0.0059		ug/L	J	Weck
RD-49C	08/19/08	Primary	n-Nitrosodimethylamine	Reported result is less than 5X or 10X than the associated trip blank.	0.006		ug/L	U	Weck
RD-55B	02/25/08	Primary	Benzo(ghi)perylene	The sample result was edited to report two significant figures rather than one.	1	J	ug/L	1.1 J	Lan
RD-58B	03/03/08	Primary	n-Nitrosodimethylamine	Reported result is less than 5X or 10X than the associated method blank.	0.00030	J	ug/L	U	Weck
RD-67	03/06/08	Primary	n-Nitrosodimethylamine	Surrogate recovery was outside recovery limits. Reported result is less than 5X or 10X than the associated method blank.	0.00039	J	ug/L	UJ	Weck
		Duplicate	n-Nitrosodimethylamine	Reported result is less than 5X or 10X than the associated method blank.	0.00033	J	ug/L	U	Weck
RD-67	05/19/08	Split	n-Nitrosodimethylamine	Surrogate recovery outside acceptance criteria.	0.002	U	ug/L	UJ	Babcock
WS-05	02/26/08	Primary	n-Nitrosodimethylamine	Reported result is less than 5X or 10X than the associated method blank.	0.00044	J	ug/L	U	Weck
			Perchlorate	Matrix Spike recovery was outside acceptance criteria.	5.4		ug/L	J	Lan
WS-06	02/28/08	Primary	n-Nitrosodimethylamine	Reported result is less than 5X or 10X than the associated method blank.	0.00043	J	ug/L	U	Weck
WS-09	02/26/08	Primary	n-Nitrosodimethylamine	Surrogate recovery was outside recovery limits.	0.0032		ug/L	J	Weck
WS-09A	02/29/08	Primary	n-Nitrosodimethylamine	Reported result is less than 5X or 10X than the associated method blank.	0.00041	J	ug/L	U	Weck
Spike Samples									
NA	03/17/08	Spike	Heptachlor	Intercolumn % difference is greater than 25%.	0.016		ug/L	J	Lan

TABLE D-VII
NOTES AND ABBREVIATIONS

1.	Lan	=	Lancaster Laboratories of Lancaster, Pennsylvania.
2.	MECX	=	MECX, LP of Aurora, Colorado.
3.	Babcock	=	E.S. Babcock & Sons Laboratories of Riverside, California.
4.	C&T	=	Curtis & Tompkins, Ltd. of Berkeley, California.
5.	Weck	=	Weck Laboratories of City of Industry, California.
6.	ug/L	=	Micrograms per liter.
7.	J	=	Estimated value. For Project and Lab Qualifiers, J indicates the analyte was detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). For MECX, J indicates that the organic analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample or that the associated value for the inorganic analyte is an estimated quantity.
8.	NJ	=	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
9.	U	=	Not detected.
10.	UJ	=	The analyte was not deemed above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quatitation necessary to accurately and precisely measure the analyte in the sample.

Note: Results validated by MECX that did not require qualification are not listed in this table.

TABLE D-VIII
SUMMARY OF 2008 DATA QUALIFICATION DUE TO MISCELLANEOUS ISSUES
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Sample Date	Sample Type	Analyte	Data Validation Issues	Qualified Result	Project and Lab Qualifier Codes	Units	Corrective Action: Validation Qualifier/ Result Value Change	Lab
Shallow Wells and Piezometers									
RS-30	05/01/08	Primary	Methyl ethyl ketone	Sample ion spectra does not match reference spectra.	2.2	J	ug/L	U	Lan
HAR-11	09/04/08	Primary	Methyl ethyl ketone	Mass spectral ions do not match reference spectrum for methyl ethyl ketone, compound incorrectly identified.	1.2	J	ug/L	R	Lan
PZ-109	11/13/08	Primary	Iron, Dissolved	Duplicate Relative Percent Difference outside acceptance criteria.	0.315		mg/L	J	Lan
			Manganese, Dissolved	Duplicate Relative Percent Difference outside acceptance criteria.	0.0916		mg/L	J	Lan
Chatsworth Formation Wells									
RD-61	05/01/08	Duplicate	Carbon Disulfide	Suspected false positive due to integration of noise.	0.4		ug/L	U	Lan
RD-23	08/07/08	Primary	Chlorobenzene	Mass spectral ions do not match reference spectrum for chlorobenezene, compound incorrectly identified.	0.8	J	ug/L	R	Lan
WS-06	10/30/08	Primary	cis-1,2-Dichloroethene	Concentration exceeds the calibration range of the instrument; estimated value.	510	E	ug/L	J	Lan
			trans-1,2-Dichloroethene	Concentration exceeds the calibration range of the instrument; estimated value.	34	E	ug/L	J	Lan
			Trichloroethene	Concentration exceeds the calibration range of the instrument; estimated value.	980	E	ug/L	J	Lan

NOTES:
1. Lan = Lancaster Laboratories of Lancaster, Pennsylvania.
2. mg/L = Milligrams per liter.
3. ug/L = Micrograms per liter.
4. J = Estimated value. For Project and Lab Qualifiers, J indicates the analyte was detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL), or concentration estimated due to analytical quality control deficiencies. The associated numerical value is the approximate concentration of the analyte in the sample or that the associated value for the inorganic analyte is an estimated quantity.
5. R = Rejected result.
6. U = Not detected.
7. E = Concentration exceeds the calibration range of the instrument.

APPENDIX E

Results of Radiological Analyses

APPENDIX E
RESULTS OF RADIOLOGICAL ANALYSES

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LIST OF TABLES

APPENDIX E

RESULTS OF RADIOLOGICAL ANALYSES

This appendix contains a compilation of all radiochemistry data obtained during the quarterly groundwater monitoring program and new well construction activities. Table E-I presents the results for gross alpha and gross beta analyses. Table E-II presents the results for tritium and Table E-III presents the results for man-made beta- and gamma-emitting radionuclides. Table E-IV presents the results for naturally occurring gamma-emitting radionuclides. Table E-V presents the results for all other specific isotopes, including isotopic uranium, isotopic thorium, and other isotopes.

Any activity detected is reported by the laboratory. Analytical results that are less than the instrument background count are shown as negative values.

A result is considered non-detectable when it is less than the minimum detectable activity (MDA), when it is less than the overall laboratory error, or when the sample count is less than the instrument background count. In each of these cases, radioactivity is not considered to be present at detectable concentrations.

As discussed in Appendix D, project specific MDAs were not always attained due in part to matrix conditions (e.g., dissolved and suspended solids) and limitations in the prescribed analytical methods (e.g., sample volumes, counting times).

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Piezometers										
PZ-101		Primary	06/02/05	Gross alpha	5.06	3.3	3.16	Filtered		ES
PZ-101		Primary	06/02/05	Gross beta	3.53 U	3.7	5.82	Filtered		ES
PZ-107		Primary	06/02/05	Gross alpha	6.33	4	3.37	Filtered		ES
PZ-107		Primary	06/02/05	Gross beta	9.07	6	8.82	Filtered		ES
PZ-111		Primary	06/02/05	Gross alpha	3.84	3.1	3.6	Filtered		ES
PZ-111		Primary	06/02/05	Gross beta	5.53 U	4.7	7.38	Filtered		ES
PZ-116		Primary	06/02/05	Gross alpha	12.5	6.3	5.2	Filtered		ES
PZ-116		Primary	06/02/05	Gross beta	28.5	8.6	8.16	Filtered		ES
Shallow Wells										
ECL-FD		Primary	06/03/91	Gross alpha	9.43	7.35	4	Filtered		IT
ECL-FD		Primary	06/03/91	Gross beta	1.21 U	2.96	4	Filtered		IT
ECL-FD		Primary	12/12/91	Gross alpha	5.73	4.46	4	Filtered		IT
ECL-FD		Primary	12/12/91	Gross beta	8.37	3.08	4	Filtered		IT
ES-06		Primary	12/08/89	Gross alpha	0.404 U	0.502	---	Filtered		UST
ES-06		Primary	12/08/89	Gross beta	0.84 U	2.1	---	Filtered		UST
ES-12		Primary	03/03/89	Gross alpha	12	5	---	Unfiltered		FGL
ES-12		Primary	03/03/89	Gross beta	24	6	---	Unfiltered		FGL
ES-24		Primary	03/03/89	Gross alpha	7	4	---	Unfiltered		FGL
ES-24		Primary	03/03/89	Gross beta	7	5	---	Unfiltered		FGL
ES-24		Primary	06/03/89	Gross alpha	10.7	3.8	---	Unfiltered		BC
ES-24		Primary	06/03/89	Gross beta	2.1	0.7	---	Unfiltered		BC
ES-24		Primary	09/10/89	Gross alpha	1 U	2.4	---	Filtered		BC
ES-24		Primary	09/10/89	Gross alpha	3.7	2.5	---	Unfiltered		UST
ES-24		Duplicate	09/10/89	Gross alpha	5.9	1.5	---	Filtered		BC
ES-24		Duplicate	09/10/89	Gross alpha	10.5	1.9	---	Unfiltered		UST
ES-24		Primary	09/10/89	Gross beta	6	0.6	---	Filtered		BC
ES-24		Primary	09/10/89	Gross beta	9.2	0.6	---	Unfiltered		UST
ES-24		Duplicate	09/10/89	Gross beta	6.8	0.3	---	Filtered		BC
ES-24		Duplicate	09/10/89	Gross beta	7.1	0.3	---	Unfiltered		UST
ES-31		Primary	07/23/89	Gross alpha	6.9	2.2	---	Unfiltered, Decanted		BC
ES-31		Primary	07/23/89	Gross beta	6.7	0.5	---	Unfiltered, Decanted		BC
ES-31		Primary	12/10/90	Gross alpha	2.79 U	2.1	4	Filtered		IT
ES-31		Primary	12/10/90	Gross beta	2.09 U	2.35	4	Filtered		IT
ES-31		Primary	03/04/91	Gross alpha	0.899 U	1.32	4	Filtered		IT
ES-31		Duplicate	03/04/91	Gross alpha	2.37 U	1.73	4	Filtered		IT
ES-31		Primary	03/04/91	Gross beta	4.79	2.55	4	Filtered		IT
ES-31		Duplicate	03/04/91	Gross beta	2.98 U	2.29	4	Filtered		IT
ES-31		Primary	06/06/91	Gross alpha	9.12	4.51	4	Filtered		IT
ES-31		Duplicate	06/06/91	Gross alpha	8.09	4.9	4	Filtered		IT
ES-31		Primary	06/06/91	Gross beta	4.94	2.59	4	Filtered		IT
ES-31		Duplicate	06/06/91	Gross beta	4.99	2.63	4	Filtered		IT
ES-31		Primary	09/07/91	Gross alpha	6.61	3.65	4	Filtered		IT

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Shallow Wells										
ES-31		Primary	09/07/91	Gross beta	7.63	2.32	4	Filtered		IT
ES-31		Primary	12/07/91	Gross alpha	7.57	4.02	4	Filtered		IT
ES-31		Primary	12/07/91	Gross beta	22.8	3.64	4	Filtered		IT
ES-31		Primary	03/05/92	Gross alpha	4	2	2	Filtered		CEP
ES-31		Primary	03/05/92	Gross beta	3 U	---	3	Filtered		CEP
ES-31		Primary	03/03/93	Gross alpha	4	3	2	Filtered	High statistics due to large amount of solids.	CEP
ES-31		Primary	03/03/93	Gross beta	6	4	3	Filtered		CEP
ES-31		Primary	02/22/94	Gross alpha	2 U	3.1	5.5	Filtered		LAS
ES-31		Primary	02/22/94	Gross beta	4.3 U	2.9	4.6	Filtered		LAS
ES-31		Primary	02/15/95	Gross alpha	23.5	6.5	4.2	Filtered		LAS
ES-31		Reanalysis of Primary	02/15/95	Gross alpha	22.5	6.2	4.7	Filtered		LAS
ES-31		Primary	02/15/95	Gross beta	20.9	3.7	4.1	Filtered		LAS
ES-31		Reanalysis of Primary	02/15/95	Gross beta	28	3.8	3.6	Filtered		LAS
ES-31		Primary	02/06/96	Gross alpha	2.4 U	3.6	6.1	Filtered		LAS
ES-31		Primary	02/06/96	Gross beta	2.3 U	2.8	4.7	Filtered		LAS
ES-31		Primary	02/04/97	Gross alpha	9.9	5.1	5.8	Filtered		LAS
ES-31		Primary	02/04/97	Gross beta	3.5 U	3.1	5.1	Filtered		LAS
ES-31		Primary	02/04/98	Gross alpha	11.5	3.7	2.6	Filtered		TN
ES-31		Primary	02/04/98	Gross beta	5.09	2	2.92	Filtered		TN
ES-31		Primary	02/06/99	Gross alpha	6.85	3.3	3.52	Filtered		TN
ES-31		Primary	02/06/99	Gross beta	4.33	2.7	4.18	Filtered		TN
ES-31		Primary	02/06/00	Gross alpha	4.36	2.6	3.09	Filtered		TR
ES-31		Primary	02/06/00	Gross beta	4.79 U	3.2	5.06	Filtered		TR
ES-31		Primary	02/15/01	Gross alpha	3.16	2.3	2.68	Filtered		ES
ES-31		Primary	02/15/01	Gross beta	4.41	1.8	2.59	Filtered		ES
ES-31		Primary	02/18/02	Gross alpha	10.49	3.59	2.08	Filtered		DL
ES-31		Primary	02/18/02	Gross beta	2.79	1.76	2.55	Filtered		DL
ES-31		Primary	02/19/03	Gross alpha	2.33 U	2.2	2.73	Filtered		ES
ES-31		Primary	02/19/03	Gross beta	3.64 J	1.9	2.8	Filtered		ES
ES-31		Primary	03/10/05	Gross alpha	-0.145 U	1.5	3.07	Filtered		ES
ES-31		Primary	03/10/05	Gross beta	2.29 U	2.4	3.91	Filtered		ES
ES-31		Primary	12/07/05	Gross alpha	2.41 U	2.3	2.72	Filtered		ES
ES-31		Split	12/07/05	Gross alpha	5.75	3.62	4.4	Filtered		STL
ES-31		Primary	12/07/05	Gross beta	4.18	2.5	3.71	Filtered		ES
ES-31		Split	12/07/05	Gross beta	3.15 U	3.13	6.37	Filtered		STL
ES-31		Primary	02/21/06	Gross alpha	3.68 U	3	4.05	Filtered		ES
ES-31		Primary	02/21/06	Gross beta	3.38 J	2.3	3.34	Filtered		ES
ES-31		Primary	08/15/06	Gross alpha	0.343 U	2.2	3.8	Filtered		ES
ES-31		Primary	08/15/06	Gross beta	4.38	1.7	2.3	Filtered		ES
ES-31		Primary	02/28/07	Gross alpha	2.59 U	2	2.72	Filtered		ES
ES-31		Primary	02/28/07	Gross beta	3.71 U	3.9	6.05	Filtered		ES
ES-31		Primary	08/16/07	Gross alpha	-2.14 U	3.4	6.06	Filtered		ES
ES-31		Primary	08/16/07	Gross beta	14.1	3.5	2.85	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Shallow Wells										
ES-31		Primary	02/01/08	Gross alpha	8.75	2.9	1.94	Filtered		ES
ES-31		Primary	02/01/08	Gross beta	4.32	1.5	1.85	Filtered		ES
ES-31		Primary	08/19/08	Gross alpha	5.53	2.2	1.69	Filtered		ES
ES-31		Primary	08/19/08	Gross beta	5.19	1.3	1.76	Filtered		ES
HAR-03		Primary	09/11/89	Gross alpha	5	1.7	---	Filtered		BC
HAR-03		Primary	09/11/89	Gross alpha	19	2.5	---	Unfiltered		UST
HAR-03		Primary	09/11/89	Gross beta	2	0.5	---	Filtered		BC
HAR-03		Primary	09/11/89	Gross beta	13	0.6	---	Unfiltered		UST
HAR-04		Primary	06/02/89	Gross alpha	20.7	3.4	---	Unfiltered		BC
HAR-04		Primary	06/02/89	Gross beta	19.7	0.9	---	Unfiltered		BC
HAR-04		Primary	07/23/89	Gross alpha	1.7	1.3	---	Unfiltered, Decanted		BC
HAR-04		Primary	07/23/89	Gross beta	1.1	0.3	---	Unfiltered, Decanted		BC
HAR-04		Primary	09/11/89	Gross alpha	1.6	0.8	---	Filtered		BC
HAR-04		Primary	09/11/89	Gross alpha	8.9	1.6	---	Unfiltered		UST
HAR-04		Primary	09/11/89	Gross beta	3.1	0.2	---	Filtered		BC
HAR-04		Primary	09/11/89	Gross beta	8.9	0.5	---	Unfiltered		UST
HAR-11		Primary	06/02/89	Gross alpha	92.5	14.7	---	Unfiltered		BC
HAR-11		Primary	06/02/89	Gross beta	80.6	3.1	---	Unfiltered		BC
HAR-11		Primary	07/22/89	Gross alpha	4.9	1.1	---	Unfiltered, Decanted		BC
HAR-11		Primary	07/22/89	Gross beta	12.8	0.9	---	Unfiltered, Decanted		BC
HAR-14		Primary	06/02/89	Gross alpha	34	5.7	---	Unfiltered		BC
HAR-14		Primary	06/02/89	Gross beta	47.4	1.4	---	Unfiltered		BC
HAR-14		Primary	07/22/89	Gross alpha	11.9	2.3	---	Unfiltered, Decanted		BC
HAR-14		Primary	07/22/89	Gross beta	8.2	0.5	---	Unfiltered, Decanted		BC
HAR-14		Primary	09/12/89	Gross alpha	-1 U	2	---	Filtered		BC
HAR-14		Primary	09/12/89	Gross alpha	9.2	1	---	Unfiltered		UST
HAR-14		Split	09/12/89	Gross alpha	1 U	5	---	Filtered		TMA
HAR-14		Split	09/12/89	Gross alpha	0 U	3	---	Unfiltered		TMA
HAR-14		Primary	09/12/89	Gross beta	9.7	0.8	---	Filtered		BC
HAR-14		Primary	09/12/89	Gross beta	9	0.2	---	Unfiltered		UST
HAR-14		Split	09/12/89	Gross beta	3 U	5	---	Filtered		TMA
HAR-14		Split	09/12/89	Gross beta	14	6	---	Unfiltered		TMA
HAR-14		Primary	03/16/93	Gross alpha	5	3	2	Filtered		CEP
HAR-14		Primary	03/16/93	Gross beta	5	4	3	Filtered		CEP
HAR-14		Primary	06/08/93	Gross alpha	6	3	2	Filtered		CEP
HAR-14		Primary	06/08/93	Gross beta	11	4	3	Filtered		CEP
HAR-14		Primary	08/09/93	Gross alpha	2	1	2	Filtered		CEP
HAR-14		Primary	08/09/93	Gross beta	9	3	3	Filtered		CEP
HAR-14		Primary	11/04/93	Gross alpha	4.4	2.7	3.4	Filtered		CEP
HAR-14		Primary	11/04/93	Gross beta	5.4	2.8	4.2	Filtered		CEP

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Shallow Wells										
HAR-15		Primary	03/16/93	Gross alpha	70	14	2	Filtered		CEP
HAR-15		Reanalysis of Primary	03/16/93	Gross alpha	8	5	2	Filtered		CEP
HAR-15		Primary	03/16/93	Gross beta	38	8	3	Filtered		CEP
HAR-15		Reanalysis of Primary	03/16/93	Gross beta	45	9	3	Filtered	Correspondence suggests that sample may be unfiltered.	CEP
HAR-15		Primary	06/08/93	Gross alpha	54	11	2	Filtered		CEP
HAR-15		Reanalysis of Primary	06/08/93	Gross alpha	4	3	2	Filtered		CEP
HAR-15		Primary	06/08/93	Gross beta	66	10	3	Filtered		CEP
HAR-15		Reanalysis of Primary	06/08/93	Gross beta	7	5	3	Filtered		CEP
HAR-15		Primary	08/09/93	Gross alpha	4	3	2	Filtered	High statistics due to large amount of solids.	CEP
HAR-15		Primary	08/09/93	Gross beta	3 U	---	3	Filtered		CEP
HAR-15		Primary	11/04/93	Gross alpha	70 R	16	10	Filtered		CEP
HAR-15		Reanalysis of Primary	11/04/93	Gross alpha	14.8	6.4	6.7	Filtered		LAS
HAR-15		Primary	11/04/93	Gross beta	34.9 R	8.6	11	Filtered		LAS
HAR-15		Reanalysis of Primary	11/04/93	Gross beta	9	3.7	5.4	Filtered		CEP
HAR-27		Primary	12/08/89	Gross alpha	2.69 U	2.73	---	Filtered		UST
HAR-27		Primary	12/08/89	Gross beta	5.65	2.73	---	Filtered		UST
HAR-30		Primary	06/02/89	Gross alpha	6.1	2.8	---	Unfiltered		BC
HAR-30		Primary	06/02/89	Gross beta	10.2	0.9	---	Unfiltered		BC
HAR-30		Primary	07/22/89	Gross alpha	5.6	2.2	---	Filtered		BC
HAR-30		Primary	07/22/89	Gross alpha	11.8	2.3	---	Unfiltered, Decanted		BC
HAR-30		Split	07/22/89	Gross alpha	5	2	---	Unfiltered		FGL
HAR-30		Primary	07/22/89	Gross beta	8.4	0.7	---	Filtered		BC
HAR-30		Primary	07/22/89	Gross beta	7.4	0.6	---	Unfiltered, Decanted		BC
HAR-30		Split	07/22/89	Gross beta	3 U	4	---	Unfiltered		FGL
HAR-30		Primary	09/11/89	Gross alpha	14.2	4.3	---	Unfiltered		BC
HAR-30		Primary	09/11/89	Gross beta	11.3	1.6	---	Unfiltered		BC
HAR-30		Primary	06/29/90	Gross alpha	6.2	3.64	---	Filtered		UST
HAR-30		Primary	06/29/90	Gross alpha	10.7	4	---	Filtered		BC
HAR-30		Primary	06/29/90	Gross beta	6.17	2.92	---	Filtered		UST
HAR-30		Primary	06/29/90	Gross beta	10.5	1.4	---	Filtered		BC
RS-05		Primary	10/19/89	Gross alpha	7.79	3.55	---	Filtered		UST
RS-05		Primary	10/19/89	Gross beta	3.17	1.85	---	Filtered		UST
RS-05		Primary	10/31/89	Gross alpha	6.15	4.71	---	Filtered		UST
RS-05		Primary	10/31/89	Gross alpha	37.2	11.1	---	Unfiltered		UST
RS-05		Primary	10/31/89	Gross beta	5.3	2.8	---	Filtered		UST
RS-05		Primary	10/31/89	Gross beta	8.32	3.01	---	Unfiltered		UST
RS-06		Primary	06/03/89	Gross alpha	16.3	4.3	---	Unfiltered		BC

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Shallow Wells										
RS-06		Primary	06/03/89	Gross beta	12.6	0.8	---	Unfiltered		BC
RS-06		Primary	07/23/89	Gross alpha	5.1	2.1	---	Unfiltered, Decanted		BC
RS-06		Primary	07/23/89	Gross beta	14.7	0.3	---	Unfiltered, Decanted		BC
RS-07		Primary	07/22/89	Gross alpha	2.1	0.9	---	Unfiltered		BC
RS-07		Primary	07/22/89	Gross beta	7.7	1.1	---	Unfiltered		BC
RS-07		Primary	09/11/89	Gross alpha	1.2 U	2.1	---	Filtered		BC
RS-07		Primary	09/11/89	Gross alpha	2 U	3.4	---	Unfiltered		UST
RS-07		Primary	09/11/89	Gross beta	5.5	0.8	---	Filtered		BC
RS-07		Primary	09/11/89	Gross beta	8.5	1.2	---	Unfiltered		UST
RS-08		Primary	06/04/89	Gross alpha	12.4	6.1	---	Unfiltered		BC
RS-08		Primary	06/04/89	Gross beta	14.5	1.1	---	Unfiltered		BC
RS-08		Primary	07/22/89	Gross alpha	15.5	1.5	---	Unfiltered, Decanted		BC
RS-08		Primary	07/22/89	Gross beta	17.1	1	---	Unfiltered, Decanted		BC
RS-08		Primary	03/18/93	Gross alpha	14	9	2	Filtered		CEP
RS-08		Primary	03/18/93	Gross beta	5	4	3	Filtered		CEP
RS-08		Primary	06/08/93	Gross alpha	16	7	2	Filtered		CEP
RS-08		Primary	06/08/93	Gross beta	13	4	3	Filtered		CEP
RS-08		Primary	08/09/93	Gross alpha	14	5	2	Filtered		CEP
RS-08		Primary	08/09/93	Gross beta	7	3	3	Filtered		CEP
RS-08		Primary	11/08/93	Gross alpha	24 R	10	11	Filtered		CEP
RS-08		Reanalysis of Primary	11/08/93	Gross alpha	19	10	11	Filtered		LAS
RS-08		Primary	11/08/93	Gross beta	9.1 R	6.7	11	Filtered		CEP
RS-08		Reanalysis of Primary	11/08/93	Gross beta	15.1 U	9.9	16	Filtered		LAS
RS-11		Primary	12/08/89	Gross alpha	1.38 U	1.63	---	Filtered		UST
RS-11		Primary	12/08/89	Gross beta	0.962 U	2.22	---	Filtered		UST
RS-11		Primary	12/06/90	Gross alpha	1.93 U	2.19	4	Filtered		IT
RS-11		Primary	12/06/90	Gross beta	-1.05 U	1.96	4	Filtered		IT
RS-11		Primary	03/04/91	Gross alpha	2.54 U	1.84	4	Filtered		IT
RS-11		Primary	03/04/91	Gross beta	0.981 U	2.19	4	Filtered		IT
RS-11		Primary	12/07/91	Gross alpha	3.77 U	2.63	4	Filtered		IT
RS-11		Primary	12/07/91	Gross beta	1.44 U	1.29	4	Filtered		IT
RS-11		Primary	03/05/92	Gross alpha	2 U	---	2	Filtered		CEP
RS-11		Primary	03/05/92	Gross beta	3 U	---	3	Filtered		CEP
RS-11		Primary	03/07/93	Gross alpha	2 U	---	2	Filtered		CEP
RS-11		Primary	03/07/93	Gross beta	6	4	3	Filtered		CEP
RS-11		Primary	02/22/94	Gross alpha	0 U	2.2	4.9	Filtered		LAS
RS-11		Primary	02/22/94	Gross beta	2.3 U	2.4	4	Filtered		LAS
RS-11		Primary	02/15/95	Gross alpha	19.4	5.6	4	Filtered		LAS
RS-11		Reanalysis of Primary	02/15/95	Gross alpha	0.4 U	2	4	Filtered		LAS
RS-11		Primary	02/15/95	Gross beta	16.6	3	3.3	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Shallow Wells										
RS-11		Reanalysis of Primary	02/15/95	Gross beta	3.1	1.7	2.6	Filtered		LAS
RS-11		Primary	02/07/96	Gross alpha	9.4	4.4	5.5	Filtered		LAS
RS-11		Primary	02/07/96	Gross beta	5.4	2.4	3.6	Filtered		LAS
RS-11		Primary	02/04/97	Gross alpha	6.1	3.9	5.2	Filtered		LAS
RS-11		Primary	02/04/97	Gross beta	3.1 U	2.5	4	Filtered		LAS
RS-11		Primary	02/04/98	Gross alpha	2.6 U	2.4	3.46	Filtered		TN
RS-11		Primary	02/04/98	Gross beta	3.44	1.4	2.1	Filtered		TN
RS-11		Primary	02/06/99	Gross alpha	1.58 U	1.3	1.84	Filtered		TN
RS-11		Primary	02/06/99	Gross beta	2.36	1.5	2.31	Filtered		TN
RS-11		Primary	02/15/00	Gross alpha	0.381 U	1.6	3.24	Filtered		TR
RS-11		Primary	02/15/00	Gross beta	0.572 U	4.4	7.48	Filtered		TR
RS-11		Primary	02/06/01	Gross alpha	0.782 U	1.6	2.24	Filtered		ES
RS-11		Primary	02/06/01	Gross beta	5.1	1.7	2.46	Filtered		ES
RS-11		Primary	05/01/03	Gross alpha	1.65 U	1.8	2.83	Filtered		ES
RS-11		Primary	05/01/03	Gross beta	0.692 U	2.3	3.89	Filtered		ES
RS-11		Primary	02/17/05	Gross alpha	27.9	11	8.44	Filtered		ES
RS-11		Primary	02/17/05	Gross beta	12.2	7.5	11	Filtered		ES
RS-11		Primary	08/29/05	Gross alpha	10.9	4.3	4.24	Filtered		ES
RS-11		Primary	08/29/05	Gross beta	11.2	4.2	5.48	Filtered		ES
RS-11		Primary	02/21/06	Gross alpha	8.6 U	7.2	9.72	Filtered		ES
RS-11		Primary	02/21/06	Gross beta	-8.84 U	13	23.1	Filtered		ES
RS-11		Primary	08/10/06	Gross alpha	2.19 U	1.9	2.66	Filtered		ES
RS-11		Primary	08/10/06	Gross beta	0.122 U	2.4	3.86	Filtered		ES
RS-11		Primary	02/28/07	Gross alpha	16.7	5.6	4.58	Filtered		ES
RS-11		Primary	02/28/07	Gross beta	14.1	4.4	4.91	Filtered		ES
RS-11		Primary	05/02/08	Gross alpha	38.8	11	5.49	Filtered		ES
RS-11		Primary	05/02/08	Gross beta	21.1	4	4.15	Filtered		ES
RS-14		Primary	06/04/89	Gross alpha	-1 U	2.7	---	Unfiltered		BC
RS-14		Primary	06/04/89	Gross beta	7.6	0.5	---	Unfiltered		BC
RS-14		Primary	07/22/89	Gross alpha	5.2	2.2	---	Unfiltered, Decanted		BC
RS-14		Primary	07/22/89	Gross beta	5.8	0.7	---	Unfiltered, Decanted		BC
RS-14		Primary	09/10/89	Gross alpha	4.5	1.6	---	Filtered		BC
RS-14		Primary	09/10/89	Gross alpha	9	1.7	---	Unfiltered		UST
RS-14		Duplicate	09/10/89	Gross alpha	5.2	1.6	---	Filtered		BC
RS-14		Duplicate	09/10/89	Gross alpha	7.7	1.8	---	Unfiltered		UST
RS-14		Primary	09/10/89	Gross beta	4.4	0.4	---	Filtered		BC
RS-14		Primary	09/10/89	Gross beta	8.1	0.5	---	Unfiltered		UST
RS-14		Duplicate	09/10/89	Gross beta	5.3	0.4	---	Filtered		BC
RS-14		Duplicate	09/10/89	Gross beta	6.9	0.4	---	Unfiltered		UST
RS-15		Primary	12/08/89	Gross alpha	4.12	2.33	---	Filtered		UST
RS-15		Primary	12/08/89	Gross beta	3.33	2.51	---	Filtered		UST
RS-15		Primary	12/07/91	Gross alpha	8.02	4	4	Filtered		IT
RS-15		Primary	12/07/91	Gross beta	4.55	2.12	4	Filtered		IT

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Shallow Wells										
RS-15		Primary	12/06/92	Gross alpha	4	3	2	Filtered		CEP
RS-15		Primary	12/06/92	Gross beta	8	3	3	Filtered		CEP
RS-16		Primary	03/09/92	Gross alpha	3	2	2	Filtered		CEP
RS-16		Primary	03/09/92	Gross beta	3 U	---	3	Filtered		CEP
RS-16		Primary	02/09/95	Gross alpha	3.1 U	4.4	7.5	Filtered		LAS
RS-16		Primary	02/09/95	Gross beta	1.4 U	4	7	Filtered		LAS
RS-16		Primary	02/04/97	Gross alpha	10.3	6.3	8.4	Filtered		LAS
RS-16		Primary	02/04/97	Gross beta	2.9 U	4.1	6.9	Filtered		LAS
RS-16		Primary	05/27/98	Gross alpha	5.34	2.7	2.96	Filtered		TN
RS-16		Primary	05/27/98	Gross beta	3	1.8	2.81	Filtered		TN
RS-16		Primary	02/23/05	Gross alpha	11.6	5.2	4.17	Filtered		ES
RS-16		Primary	02/23/05	Gross beta	8.93	4.4	5.91	Filtered		ES
RS-16		Primary	02/01/08	Gross alpha	8.38	2.8	2.26	Filtered		ES
RS-16		Primary	02/01/08	Gross beta	4.71	1.9	2.79	Filtered		ES
RS-17		Primary	12/08/89	Gross alpha	3.56	2.61	---	Filtered		UST
RS-17		Primary	12/08/89	Gross beta	1.1 U	2.18	---	Filtered		UST
RS-17		Primary	12/10/90	Gross alpha	8.36	4.63	4	Filtered		IT
RS-17		Primary	12/10/90	Gross beta	2.35 U	2.47	4	Filtered		IT
RS-17		Primary	12/07/91	Gross alpha	9.58	5.41	4	Filtered		IT
RS-17		Primary	12/07/91	Gross beta	1.54 U	2.36	4	Filtered		IT
RS-17		Primary	12/05/92	Gross alpha	3	2	2	Filtered		CEP
RS-17		Primary	12/05/92	Gross beta	4	3	3	Filtered		CEP
RS-18		Primary	03/03/89	Gross alpha	20	5	---	Unfiltered		FGL
RS-18		Primary	03/03/89	Gross beta	11	3	---	Unfiltered		FGL
RS-18		Primary	06/04/89	Gross alpha	27.6	8.4	---	Unfiltered		BC
RS-18		Primary	06/04/89	Gross beta	33	1.5	---	Unfiltered		BC
RS-18		Primary	03/27/90	Gross alpha	9.92	4.84	---	Filtered		UST
RS-18		Primary	03/27/90	Gross beta	8.48	2.98	---	Filtered		UST
RS-18		Primary	03/10/91	Gross alpha	16.4	5.86	4	Filtered		IT
RS-18		Duplicate	03/10/91	Gross alpha	11	5.73	4	Filtered		IT
RS-18		Primary	03/10/91	Gross beta	7.84	2.81	4	Filtered		IT
RS-18		Duplicate	03/10/91	Gross beta	6.06	2.97	4	Filtered		IT
RS-18		Primary	06/04/91	Gross alpha	22	7.92	4	Filtered		IT
RS-18		Duplicate	06/04/91	Gross alpha	18.4	7.5	4	Filtered		IT
RS-18		Primary	06/04/91	Gross beta	9.36	5.13	4	Filtered		IT
RS-18		Duplicate	06/04/91	Gross beta	13.1	5.61	4	Filtered		IT
RS-18		Primary	03/04/92	Gross alpha	3	2	2	Filtered		CEP
RS-18		Primary	03/04/92	Gross beta	3 U	---	3	Filtered		CEP
RS-18		Primary	06/04/92	Gross alpha	14	6	2	Filtered		CEP
RS-18		Primary	06/04/92	Gross beta	11	3	3	Filtered		CEP
RS-18		Primary	09/10/92	Gross alpha	21	5	2	Filtered		CEP
RS-18		Reanalysis of Primary	09/10/92	Gross alpha	21	6	2	Filtered		CEP
RS-18		Split	09/10/92	Gross alpha	55	20	---	Filtered		BL

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Shallow Wells										
RS-18		Reanalysis of Split	09/10/92	Gross alpha	78	24	---	Filtered		BL
RS-18		Primary	09/10/92	Gross beta	32	5	3	Filtered		CEP
RS-18		Split	09/10/92	Gross beta	40	12	---	Filtered		BL
RS-18		Reanalysis of Split	09/10/92	Gross beta	50	10	---	Filtered		BL
RS-18		Primary	12/15/92	Gross alpha	13	6	2	Filtered		CEP
RS-18		Split	12/15/92	Gross alpha	24	14	2	Filtered		BL
RS-18		Primary	12/15/92	Gross beta	8	4	3	Filtered		CEP
RS-18		Split	12/15/92	Gross beta	19	9	4	Filtered		BL
RS-18		Primary	06/23/93	Gross alpha	6	5	2	Filtered	High statistics due to large amount of solids.	CEP
RS-18		Primary	06/23/93	Gross beta	14	8	3	Filtered		CEP
RS-18		Primary	11/06/93	Gross alpha	23.1	9.3	9	Filtered		LAS
RS-18		Primary	11/06/93	Gross beta	14.1	6.1	9.1	Filtered		LAS
RS-18		Primary	05/04/94	Gross alpha	34	12	8.7	Filtered		LAS
RS-18		Primary	05/04/94	Gross beta	5.1 U	6.7	11	Filtered		LAS
RS-18		Primary	02/17/95	Gross alpha	39	10	5.8	Filtered		LAS
RS-18		Reanalysis of Primary	02/17/95	Gross alpha	14.2	5.8	5.4	Filtered		LAS
RS-18		Primary	02/17/95	Gross beta	31.4	5.8	6.5	Filtered		LAS
RS-18		Reanalysis of Primary	02/17/95	Gross beta	9.1	3.4	4.9	Filtered		LAS
RS-18		Primary	08/10/95	Gross alpha	13.3	6.9	7.4	Filtered		LAS
RS-18		Primary	08/10/95	Gross beta	9.1	5.5	8.5	Filtered		LAS
RS-18		Primary	05/16/96	Gross alpha	26	11	13	Filtered		LAS
RS-18		Primary	05/16/96	Gross beta	11.1 U	7.4	12	Filtered		LAS
RS-18		Primary	02/03/97	Gross alpha	20.6	9.8	11	Filtered		LAS
RS-18		Primary	02/03/97	Gross beta	6.8 U	6.2	10	Filtered		LAS
RS-18		Primary	02/05/98	Gross alpha	15.2	4.8	3.64	Filtered		TN
RS-18		Primary	02/05/98	Gross beta	5.86	1.8	2.45	Filtered		TN
RS-18		Primary	08/05/98	Gross alpha	45.8	8.1	5.82	Filtered		TN
RS-18		Primary	08/05/98	Gross beta	13.7 U	10	16.1	Filtered		TN
RS-18		Primary	05/12/99	Gross alpha	26.9	6.2	3.65	Filtered		TN
RS-18		Primary	05/12/99	Gross beta	13.6	2.1	2.24	Filtered		TN
RS-18		Primary	05/09/00	Gross alpha	21	6.3	5.21	Filtered		TR
RS-18		Primary	05/09/00	Gross beta	11.6	3.1	4.08	Filtered		TR
RS-18		Primary	02/19/01	Gross alpha	4.38	3.5	4.25	Filtered		ES
RS-18		Primary	02/19/01	Gross beta	7.08	1.7	2.12	Filtered		ES
RS-18		Primary	05/02/03	Gross alpha	29.1	9.1	4.92	Filtered		ES
RS-18		Primary	05/02/03	Gross beta	17.8	6	6.32	Filtered		ES
RS-18		Primary	02/23/05	Gross alpha	11.5	4.4	2.78	Filtered		ES
RS-18		Primary	02/23/05	Gross beta	6.68	2.8	3.65	Filtered		ES
RS-18		Primary	08/26/05	Gross alpha	5.65	2.1	1.79	Filtered		ES
RS-18		Primary	08/26/05	Gross beta	5.19	1.7	2	Filtered		ES
RS-18		Primary	02/20/06	Gross alpha	-0.194 U	3.6	6.8	Filtered		ES
RS-18		Primary	02/20/06	Gross beta	8.71	4.1	5.92	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Shallow Wells										
RS-18		Primary	02/04/08	Gross alpha	6.67	2.6	2.36	Filtered		ES
RS-18		Primary	02/04/08	Gross beta	3.81 J	1.9	2.78	Filtered		ES
RS-22		Primary	06/07/89	Gross alpha	245	29.4	---	Unfiltered		BC
RS-22		Primary	06/07/89	Gross beta	227	12.4	---	Unfiltered		BC
RS-22		Primary	07/22/89	Gross alpha	1.9	1.5	---	Unfiltered, Decanted		BC
RS-22		Primary	07/22/89	Gross beta	2.2	0.3	---	Unfiltered, Decanted		BC
RS-25		Primary	02/25/03	Gross alpha	2.18 J	1.3	1.62	Filtered		ES
RS-25		Primary	02/25/03	Gross beta	8.98	2.2	3.19	Filtered		ES
RS-25		Primary	02/13/08	Gross alpha	5	2.5	2.8	Filtered		ES
RS-25		Primary	02/13/08	Gross beta	5.43	2.5	3.78	Filtered		ES
RS-27		Primary	03/04/92	Gross alpha	2 U	---	2	Filtered		CEP
RS-27		Primary	03/04/92	Gross beta	4	3	3	Filtered		CEP
RS-27		Primary	06/04/92	Gross alpha	-0.3 U	1.5	2	Filtered		CEP
RS-27		Primary	06/04/92	Gross beta	2 U	3	3	Filtered		CEP
RS-27		Primary	05/17/95	Gross alpha	1.1 U	1.2	1.9	Filtered		LAS
RS-27		Primary	05/17/95	Gross beta	3.7	1.4	2.1	Filtered		LAS
RS-27		Primary	05/07/98	Gross alpha	-0.216 U	0.8	1.79	Filtered		TN
RS-27		Primary	05/07/98	Gross beta	1.03 U	1.2	2.01	Filtered		TN
RS-28		Primary	09/27/89	Gross alpha	7.5	2.3	---	Filtered		BC
RS-28		Primary	09/27/89	Gross alpha	42.3	7.5	---	Unfiltered		BC
RS-28		Primary	09/27/89	Gross beta	10	0.8	---	Filtered		BC
RS-28		Primary	09/27/89	Gross beta	49.5	1.3	---	Unfiltered		BC
RS-28		Primary	10/19/89	Gross alpha	7.4	3.2	---	Filtered		UST
RS-28		Split	10/19/89	Gross alpha	7.07	3.03	---	Filtered		UST
RS-28		Primary	10/19/89	Gross beta	11.7	0.9	---	Filtered		UST
RS-28		Split	10/19/89	Gross beta	3.53	1.79	---	Filtered		UST
RS-28		Primary	11/01/89	Gross alpha	4.62	2.59	---	Filtered		UST
RS-28		Primary	11/01/89	Gross alpha	7.38	3.45	---	Unfiltered		UST
RS-28		Primary	11/01/89	Gross beta	4.76	2.59	---	Filtered		UST
RS-28		Primary	11/01/89	Gross beta	7.03	2.94	---	Unfiltered		UST
RS-28		Primary	03/27/90	Gross alpha	5.68	3.5	---	Filtered		UST
RS-28		Primary	03/27/90	Gross beta	5.39	2.6	---	Filtered		UST
RS-28		Primary	06/29/90	Gross alpha	9.39	4.83	---	Filtered		UST
RS-28		Primary	06/29/90	Gross beta	5.24	2.8	---	Filtered		UST
RS-28		Primary	09/15/90	Gross alpha	9.85	3.9	---	Filtered		UST
RS-28		Duplicate	09/15/90	Gross alpha	7.9	4	---	Filtered		UST
RS-28		Primary	09/15/90	Gross beta	5.77	2.72	---	Filtered		UST
RS-28		Duplicate	09/15/90	Gross beta	6.97	2.8	---	Filtered		UST
RS-28		Primary	12/06/90	Gross alpha	8.72	4.75	4	Filtered		IT
RS-28		Primary	12/06/90	Gross beta	4.93	2.55	4	Filtered		IT
RS-28		Primary	03/09/91	Gross alpha	6.44	3.16	4	Filtered		IT
RS-28		Primary	03/09/91	Gross beta	3.32 U	2.29	4	Filtered		IT
RS-28		Primary	06/07/91	Gross alpha	7.18	3.38	4	Filtered		IT

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Shallow Wells										
RS-28		Primary	06/07/91	Gross beta	12.7	3.45	4	Filtered		IT
RS-28		Primary	09/09/91	Gross alpha	0.957 U	0.7	4	Filtered		IT
RS-28		Primary	09/09/91	Gross beta	5.3	1.4	4	Filtered		IT
RS-28		Primary	12/06/91	Gross alpha	6.42	3.4	4	Filtered		IT
RS-28		Primary	12/06/91	Gross beta	5.13	2.14	4	Filtered		IT
RS-28		Primary	03/09/92	Gross alpha	3	2	2	Filtered		CEP
RS-28		Primary	03/09/92	Gross beta	3 U	---	3	Filtered		CEP
RS-28		Primary	06/03/92	Gross alpha	3	2	2	Filtered		CEP
RS-28		Primary	06/03/92	Gross beta	-5 U	3	3	Filtered		CEP
RS-28		Primary	09/13/92	Gross alpha	0.3 U	2.2	2	Filtered		CEP
RS-28		Split	09/13/92	Gross alpha	8.4	7.1	---	Filtered		BL
RS-28		Primary	09/13/92	Gross beta	5	4	3	Filtered		CEP
RS-28		Split	09/13/92	Gross beta	9.7	6.8	---	Filtered		BL
RS-28		Primary	12/05/92	Gross alpha	4	2	2	Filtered		CEP
RS-28		Primary	12/05/92	Gross beta	7	3	3	Filtered		CEP
RS-28		Primary	06/22/93	Gross alpha	3	2	2	Filtered	High statistics due to large amount of solids.	CEP
RS-28		Primary	06/22/93	Gross beta	8	3	3	Filtered		CEP
RS-28		Primary	11/06/93	Gross alpha	6	3.8	4.9	Filtered		LAS
RS-28		Primary	11/06/93	Gross beta	3.7 U	3.6	5.8	Filtered		LAS
RS-28		Primary	05/07/94	Gross alpha	10.9	5.4	5.8	Filtered		LAS
RS-28		Primary	05/07/94	Gross beta	8.1	4.1	6.3	Filtered		LAS
RS-28		Primary	05/17/95	Gross alpha	7.6	4.4	5.3	Filtered		LAS
RS-28		Primary	05/17/95	Gross beta	10.5	3.8	5.4	Filtered		LAS
RS-28		Primary	11/08/95	Gross alpha	3.8	3.1	---	Filtered		LAS
RS-28		Primary	11/08/95	Gross beta	5.2	2.4	---	Filtered		LAS
RS-28		Primary	05/16/96	Gross alpha	25.7	7.9	6.6	Filtered		LAS
RS-28		Primary	05/16/96	Gross beta	33.7	6	6.8	Filtered		LAS
RS-28		Primary	05/08/98	Gross alpha	4.41	2.5	2.95	Filtered		TN
RS-28		Primary	05/08/98	Gross beta	4.61	1.6	2.32	Filtered		TN
RS-28		Primary	11/16/98	Gross alpha	5.46	2.3	2.18	Filtered		TN
RS-28		Primary	11/16/98	Gross beta	6.55	1.9	2.8	Filtered		TN
RS-28		Primary	05/05/00	Gross alpha	3.42	2.3	2.92	Filtered		TR
RS-28		Primary	05/05/00	Gross beta	5.44	2.7	3.96	Filtered		TR
RS-28		Primary	05/10/01	Gross alpha	0.802 U	2.2	3.58	Filtered		ES
RS-28		Primary	05/10/01	Gross beta	6.44	1.9	2.49	Filtered		ES
RS-28		Primary	05/20/05	Gross alpha	7.44	4.4	3.82	Filtered		ES
RS-28		Primary	05/20/05	Gross beta	5.14	3.2	4.75	Filtered		ES
RS-28		Primary	08/30/05	Gross alpha	4.58	1.8	1.45	Filtered		ES
RS-28		Primary	08/30/05	Gross beta	5.27	1.9	2.47	Filtered		ES
RS-28		Primary	02/17/06	Gross alpha	4.15 U	3.6	5.12	Filtered		ES
RS-28		Primary	02/17/06	Gross beta	-0.452 U	2	3.68	Filtered		ES
RS-28		Primary	08/11/06	Gross alpha	3.68	1.9	2.27	Filtered		ES
RS-28		Primary	08/11/06	Gross beta	9.32	2.7	2.8	Filtered		ES
RS-28		Primary	02/13/07	Gross alpha	2.72 J	1.9	2.5	Filtered		ES
RS-28		Primary	02/13/07	Gross beta	7.06	2.2	2.42	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Shallow Wells										
RS-28		Primary	11/05/07	Gross alpha	4.77 U	6.4	9.87	Filtered		ES
RS-28		Primary	11/05/07	Gross beta	9.05	4.3	5.7	Filtered		ES
RS-28		Primary	02/06/08	Gross alpha	7.26	3.2	3.57	Filtered		ES
RS-28		Primary	02/06/08	Gross beta	6.85	2.4	3.09	Filtered		ES
RS-28		Primary	08/19/08	Gross alpha	4.02	2.7	3.63	Filtered		ES
RS-28		Primary	08/19/08	Gross beta	8.1	2.4	3.33	Filtered		ES
RS-54		Primary	09/11/93	Gross alpha	3	2	2	Filtered	High statistics due to large amount of solids.	CEP
RS-54		Primary	09/11/93	Gross beta	3 U	---	3	Filtered		CEP
RS-54		Primary	09/29/93	Gross alpha	11	7	2	Filtered		CEP
RS-54		Primary	09/29/93	Gross beta	9	3	3	Filtered		CEP
RS-54		Primary	05/07/94	Gross alpha	35	12	9.8	Filtered		LAS
RS-54		Reanalysis of Primary	05/07/94	Gross alpha	42	14	11	Filtered		LAS
RS-54		Primary	05/07/94	Gross beta	15.1	7.3	11	Filtered		LAS
RS-54		Reanalysis of Primary	05/07/94	Gross beta	24.1	8.1	11	Filtered		LAS
RS-54		Primary	08/07/94	Gross alpha	27	11	8.9	Filtered		LAS
RS-54		Primary	08/07/94	Gross beta	30.3	8.1	11	Filtered		LAS
RS-54		Primary	08/03/95	Gross alpha	25.1	9.5	8.3	Filtered		LAS
RS-54		Primary	08/03/95	Gross beta	7.2 U	6.3	10	Filtered		LAS
RS-54		Primary	05/16/96	Gross alpha	31	10	8.6	Filtered		LAS
RS-54		Primary	05/16/96	Gross beta	12.8	5.3	7.7	Filtered		LAS
RS-54		Primary	08/23/96	Gross alpha	50	14	11	Filtered		LAS
RS-54		Reanalysis of Primary	08/23/96	Gross alpha	53	15	12	Filtered		LAS
RS-54		Primary	08/23/96	Gross beta	9.7 U	6.5	10	Filtered		LAS
RS-54		Reanalysis of Primary	08/23/96	Gross beta	21.7	8	11	Filtered		LAS
RS-54		Primary	05/03/97	Gross alpha	28	9.9	8.7	Filtered		LAS
RS-54		Primary	05/03/97	Gross beta	6.7 U	5.4	8.5	Filtered		LAS
RS-54		Primary	08/02/97	Gross alpha	24.8	9.9	9	Filtered		LAS
RS-54		Primary	08/02/97	Gross beta	13.5	6.2	9.3	Filtered		LAS
RS-54		Primary	08/27/97	Gross alpha	24.8	9.9	10	Filtered		LAS
RS-54		Primary	08/27/97	Gross beta	13.2	6.4	9.6	Filtered		LAS
RS-54		Primary	02/08/98	Gross alpha	8.86	3	2.62	Filtered		TN
RS-54		Primary	02/08/98	Gross beta	5.92	1.7	2.26	Filtered		TN
RS-54		Primary	08/04/98	Gross alpha	31.5	14	13	Filtered		TN
RS-54		Primary	08/04/98	Gross beta	4.93 U	18	30.5	Filtered		TN
RS-54		Primary	02/02/99	Gross alpha	10.2	3.9	3.34	Filtered		TN
RS-54		Primary	02/02/99	Gross beta	10	1.9	2.25	Filtered		TN
RS-54		Primary	08/18/99	Gross alpha	16.1	4.7	3.45	Filtered		TN
RS-54		Primary	08/18/99	Gross beta	11.4	3.2	4.34	Filtered		TN
RS-54		Primary	03/15/00	Gross alpha	16.5	4.7	3.08	Filtered		TR
RS-54		Primary	03/15/00	Gross beta	11.6	2.8	3.83	Filtered		TR
RS-54		Primary	11/01/01	Gross alpha	59.44	2.3	2.56	Filtered		DL
RS-54		Primary	11/01/01	Gross beta	7.59	1.8	2.9	Filtered		DL

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Shallow Wells										
RS-54		Primary	03/01/02	Gross alpha	24.29	6.92	0.85	Filtered		DL
RS-54		Primary	03/01/02	Gross beta	5.52	1.17	3.4	Filtered		DL
RS-54		Primary	11/07/02	Gross alpha	16.9	6.4	6.52	Filtered		ES
RS-54		Primary	11/07/02	Gross beta	11.7	3.5	4.79	Filtered		ES
RS-54		Primary	02/16/05	Gross alpha	13.7	5.8	4.39	Filtered		ES
RS-54		Primary	02/16/05	Gross beta	-6.78 U	5.4	9.28	Filtered		ES
RS-54		Primary	09/06/05	Gross alpha	12	3.9	2.98	Filtered		ES
RS-54		Primary	09/06/05	Gross beta	10.4	3.7	4.54	Filtered		ES
RS-54		Primary	02/23/06	Gross alpha	6.94 U	5.5	7.57	Filtered		ES
RS-54		Split	02/23/06	Gross alpha	21	5.89	3.36	Filtered		STL
RS-54		Primary	02/23/06	Gross beta	9.35	4.1	5.16	Filtered		ES
RS-54		Split	02/23/06	Gross beta	11.4	3.82	5.18	Filtered		STL
RS-54		Primary	02/15/07	Gross alpha	20	6.4	4.95	Filtered		ES
RS-54		Primary	02/15/07	Gross beta	13.2	3.7	3.68	Filtered		ES
RS-54		Primary	02/22/08	Gross alpha	23	6.6	3.82	Filtered		ES
RS-54		Primary	02/22/08	Gross beta	11.8	2.6	3.28	Filtered		ES
RS-54		Primary	09/04/08	Gross alpha	18	5.8	3.51	Filtered		ES
RS-54		Primary	09/04/08	Gross beta	9.93	2.6	3.47	Filtered		ES
SH-04		Primary	06/03/89	Gross alpha	4.8 U	6.9	---	Unfiltered		BC
SH-04		Primary	06/03/89	Gross beta	6.8	3.2	---	Unfiltered		BC
SH-04		Primary	07/22/89	Gross alpha	4	1	---	Unfiltered, Decanted		BC
SH-04		Primary	07/22/89	Gross beta	19.2	2.4	---	Unfiltered, Decanted		BC
SH-04		Primary	09/09/89	Gross alpha	22	5.4	---	Filtered		BC
SH-04		Primary	09/09/89	Gross alpha	8	4.4	---	Unfiltered		UST
SH-04		Primary	09/09/89	Gross beta	13	1.3	---	Filtered		BC
SH-04		Primary	09/09/89	Gross beta	10	1.3	---	Unfiltered		UST
SH-04		Primary	03/18/93	Gross alpha	7	6	2	Filtered	High statistics due to large amount of solids.	CEP
SH-04		Primary	03/18/93	Gross beta	3 U	---	3	Filtered		CEP
SH-04		Primary	06/09/93	Gross alpha	5	4	2	Filtered	High statistics due to large amount of solids.	CEP
SH-04		Primary	06/09/93	Gross beta	8	4	3	Filtered		CEP
SH-04		Primary	08/09/93	Gross alpha	5	4	2	Filtered	High statistics due to large amount of solids.	CEP
SH-04		Primary	08/09/93	Gross beta	3 U	---	3	Filtered		CEP
SH-04		Primary	11/04/93	Gross alpha	1.1 U	5.2	11	Filtered		LAS
SH-04		Primary	11/04/93	Gross beta	2.9 U	6.5	11	Filtered		LAS
SH-04		Primary	05/06/94	Gross alpha	3.5 U	5.7	10	Filtered		LAS
SH-04		Primary	05/06/94	Gross beta	4.5 U	6.7	11	Filtered		LAS
SH-07		Primary	06/03/89	Gross alpha	185	18.3	---	Unfiltered		BC
SH-07		Primary	06/03/89	Gross beta	21.2	3.1	---	Unfiltered		BC
SH-07		Primary	07/19/89	Gross alpha	8.4	2	---	Filtered		BC
SH-07		Primary	07/19/89	Gross alpha	30.5	3.3	---	Unfiltered, Decanted		BC
SH-07		Primary	07/19/89	Gross beta	3.8	0.6	---	Filtered		BC

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Shallow Wells										
SH-07		Primary	07/19/89	Gross beta	21.2	0.9	---	Unfiltered, Decanted		BC
SH-07		Primary	09/09/89	Gross alpha	5.4	1.4	---	Filtered		BC
SH-07		Primary	09/09/89	Gross alpha	5.9	2.1	---	Unfiltered		UST
SH-07		Primary	09/09/89	Gross beta	3.2	0.4	---	Filtered		BC
SH-07		Primary	09/09/89	Gross beta	11	0.5	---	Unfiltered		UST
SH-11		Primary	06/03/89	Gross alpha	281	20.9	---	Unfiltered		BC
SH-11		Primary	06/03/89	Gross beta	11.8	3.6	---	Unfiltered		BC
SH-11		Primary	07/19/89	Gross alpha	4.7	1.8	---	Filtered		BC
SH-11		Primary	07/19/89	Gross alpha	8.9	2.5	---	Unfiltered, Decanted		BC
SH-11		Primary	07/19/89	Gross beta	5.6	0.6	---	Filtered		BC
SH-11		Primary	07/19/89	Gross beta	8.1	0.6	---	Unfiltered, Decanted		BC
SH-11		Primary	09/09/89	Gross alpha	1.2 U	1.7	---	Filtered		BC
SH-11		Primary	09/09/89	Gross alpha	5.9	2.1	---	Unfiltered		UST
SH-11		Primary	09/09/89	Gross beta	5.6	0.6	---	Filtered		BC
SH-11		Primary	09/09/89	Gross beta	11	0.5	---	Unfiltered		UST
SH-11		Primary	10/17/89	Gross alpha	5.23	2.97	---	Filtered		UST
SH-11		Primary	10/17/89	Gross beta	2.43	1.68	---	Filtered		UST
SH-11		Primary	10/31/89	Gross alpha	9.57	5.05	---	Filtered		UST
SH-11		Primary	10/31/89	Gross alpha	10.4	6.06	---	Unfiltered		UST
SH-11		Primary	10/31/89	Gross beta	2.95	2.45	---	Filtered		UST
SH-11		Primary	10/31/89	Gross beta	6.96	2.82	---	Unfiltered		UST
Chatsworth Formation Wells										
HAR-06		Primary	06/02/89	Gross alpha	15.5	3.7	---	Unfiltered		BC
HAR-06		Primary	06/02/89	Gross beta	12.1	0.8	---	Unfiltered		BC
HAR-06		Primary	07/22/89	Gross alpha	9.2	2	---	Unfiltered, Decanted		BC
HAR-06		Primary	07/22/89	Gross beta	11.9	0.6	---	Unfiltered, Decanted		BC
HAR-06		Primary	09/14/89	Gross alpha	4.6	3.8	---	Filtered		BC
HAR-06		Primary	09/14/89	Gross alpha	9.4	4.2	---	Unfiltered		UST
HAR-06		Primary	09/14/89	Gross beta	18.7	1.4	---	Filtered		BC
HAR-06		Primary	09/14/89	Gross beta	20	1.6	---	Unfiltered		UST
HAR-07		Primary	06/05/89	Gross alpha	9.2	4.3	---	Unfiltered		BC
HAR-07		Primary	06/05/89	Gross beta	4.2	0.9	---	Unfiltered		BC
HAR-07		Primary	07/25/89	Gross alpha	1.6	1.5	---	Unfiltered, Decanted		BC
HAR-07		Primary	07/25/89	Gross beta	13.1	0.6	---	Unfiltered, Decanted		BC
HAR-07		Primary	09/09/89	Gross alpha	4	1.5	---	Filtered		BC
HAR-07		Primary	09/09/89	Gross alpha	6	1.8	---	Unfiltered		UST
HAR-07		Primary	09/09/89	Gross beta	6	0.3	---	Filtered		BC
HAR-07		Primary	09/09/89	Gross beta	10	0.3	---	Unfiltered		UST
HAR-07		Primary	03/15/93	Gross alpha	2 U	---	2	Filtered		CEP
HAR-07		Primary	03/15/93	Gross beta	3 U	---	3	Filtered		CEP

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
HAR-07		Primary	06/09/93	Gross alpha	4	3	2	Filtered	High statistics due to large amount of solids.	CEP
HAR-07		Primary	06/09/93	Gross beta	5	4	2	Filtered		CEP
HAR-07		Primary	08/09/93	Gross alpha	5	2	2	Filtered		CEP
HAR-07		Primary	08/09/93	Gross beta	18	4	3	Filtered		CEP
HAR-07		Primary	11/04/93	Gross alpha	4.1 U	3.2	4.4	Filtered		CEP
HAR-07		Primary	11/04/93	Gross beta	4.5 U	3.2	5	Filtered		CEP
HAR-08		Primary	06/07/89	Gross alpha	-1 U	1.5	---	Unfiltered		BC
HAR-08		Primary	06/07/89	Gross beta	1.9	0.5	---	Unfiltered		BC
HAR-08		Primary	07/23/89	Gross alpha	-1 U	1.2	---	Unfiltered, Decanted		BC
HAR-08		Primary	07/23/89	Gross beta	-1 U	0.3	---	Unfiltered, Decanted		BC
HAR-16		Primary	06/05/89	Gross alpha	4.2	1.9	---	Unfiltered		BC
HAR-16		Primary	06/05/89	Gross beta	1.7	0.8	---	Unfiltered		BC
HAR-16		Primary	07/25/89	Gross alpha	4.6	1.9	---	Unfiltered, Decanted		BC
HAR-16		Primary	07/25/89	Gross beta	5.4	0.8	---	Unfiltered, Decanted		BC
HAR-16		Primary	09/09/89	Gross alpha	1 U	1.1	---	Filtered		BC
HAR-16		Primary	09/09/89	Gross alpha	2.1	1.3	---	Unfiltered		UST
HAR-16		Primary	09/09/89	Gross beta	3.6	0.3	---	Filtered		BC
HAR-16		Primary	09/09/89	Gross beta	4.5	0.4	---	Unfiltered		UST
HAR-16		Primary	03/15/93	Gross alpha	2 U	---	2	Filtered		CEP
HAR-16		Primary	03/15/93	Gross beta	3 U	---	3	Filtered		CEP
HAR-16		Primary	06/09/93	Gross alpha	3	2	2	Filtered	High statistics due to large amount of solids.	CEP
HAR-16		Primary	06/09/93	Gross beta	7	4	3	Filtered		CEP
HAR-16		Primary	08/09/93	Gross alpha	2 U	---	2	Filtered		CEP
HAR-16		Primary	08/09/93	Gross beta	3 U	---	3	Filtered		CEP
HAR-16		Primary	11/22/93	Gross alpha	-0.5 U	2	4.7	Filtered		CEP
HAR-16		Primary	11/22/93	Gross beta	3 U	2.5	4.2	Filtered		CEP
HAR-17		Primary	06/04/89	Gross alpha	7.3	2.5	---	Unfiltered		BC
HAR-17		Primary	06/04/89	Gross beta	2.3	0.6	---	Unfiltered		BC
HAR-17		Primary	07/23/89	Gross alpha	4.7	1.7	---	Unfiltered, Decanted		BC
HAR-17		Primary	07/23/89	Gross beta	4.6	0.5	---	Unfiltered, Decanted		BC
HAR-17		Primary	06/28/90	Gross alpha	7.88	5.95	---	Filtered		UST
HAR-17		Primary	06/28/90	Gross beta	5.39	2.8	---	Filtered		UST
HAR-17		Primary	03/17/93	Gross alpha	7	5	2	Filtered		CEP
HAR-17		Primary	03/17/93	Gross beta	4	3	3	Filtered		CEP
HAR-17		Primary	06/09/93	Gross alpha	3	2	2	Filtered	High statistics due to large amount of solids.	CEP
HAR-17		Primary	06/09/93	Gross beta	12	4	3	Filtered		CEP
HAR-17		Primary	08/09/93	Gross alpha	2 U	---	2	Filtered		CEP
HAR-17		Primary	08/09/93	Gross beta	3 U	---	3	Filtered		CEP

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
HAR-17		Primary	11/08/93	Gross alpha	2.9 U	3.4	5.5	Filtered		CEP
HAR-17		Primary	11/08/93	Gross beta	4.1 U	4.2	7	Filtered		CEP
HAR-18		Primary	06/05/89	Gross alpha	11.8	4.4	---	Unfiltered		BC
HAR-18		Primary	06/05/89	Gross beta	9.5	1.1	---	Unfiltered		BC
HAR-18		Primary	07/25/89	Gross alpha	8.6	2.6	---	Unfiltered, Decanted		BC
HAR-18		Primary	07/25/89	Gross beta	16.7	1	---	Unfiltered, Decanted		BC
HAR-18		Primary	09/11/89	Gross alpha	16.5	4.5	---	Filtered		BC
HAR-18		Primary	09/11/89	Gross alpha	21.6	4.7	---	Unfiltered		UST
HAR-18		Primary	09/11/89	Gross beta	20.1	1.7	---	Filtered		BC
HAR-18		Primary	09/11/89	Gross beta	14	1.9	---	Unfiltered		UST
HAR-18		Primary	05/08/94	Gross alpha	19.1	7.2	6.7	Filtered		LAS
HAR-18		Primary	05/08/94	Gross beta	9.7	4.5	6.7	Filtered		LAS
HAR-19		Primary	09/09/89	Gross alpha	6	1.9	---	Filtered		BC
HAR-19		Primary	09/09/89	Gross alpha	10	2.1	---	Unfiltered		UST
HAR-19		Primary	09/09/89	Gross beta	12	0.4	---	Filtered		BC
HAR-19		Primary	09/09/89	Gross beta	11	0.5	---	Unfiltered		UST
HAR-20		Primary	09/09/89	Gross alpha	12	2.6	---	Filtered		BC
HAR-20		Primary	09/09/89	Gross alpha	20	2.9	---	Unfiltered		UST
HAR-20		Primary	09/09/89	Gross beta	9	0.6	---	Filtered		BC
HAR-20		Primary	09/09/89	Gross beta	13	0.72	---	Unfiltered		UST
HAR-21		Primary	09/09/89	Gross alpha	11	2.1	---	Filtered		BC
HAR-21		Primary	09/09/89	Gross alpha	15	2.5	---	Unfiltered		UST
HAR-21		Primary	09/09/89	Gross beta	11	0.7	---	Filtered		BC
HAR-21		Primary	09/09/89	Gross beta	19	0.9	---	Unfiltered		UST
HAR-23		Primary	06/02/89	Gross alpha	-1 U	3.8	---	Unfiltered		BC
HAR-23		Primary	06/02/89	Gross beta	7.7	0.8	---	Unfiltered		BC
HAR-23		Primary	07/22/89	Gross alpha	4.2	1.6	---	Unfiltered, Decanted		BC
HAR-23		Primary	07/22/89	Gross beta	8	0.3	---	Unfiltered, Decanted		BC
HAR-26		Primary	07/22/89	Gross alpha	2.6	1.4	---	Unfiltered, Decanted		BC
HAR-26		Primary	07/22/89	Gross beta	3.3	0.5	---	Unfiltered, Decanted		BC
HAR-26		Primary	02/23/94	Gross alpha	0.8 U	2.4	---	Filtered		LAS
HAR-26		Primary	02/23/94	Gross beta	3.9	2.7	---	Filtered		LAS
HAR-26		Primary	08/15/94	Gross alpha	0.2 U	2.5	---	Filtered		LAS
HAR-26		Primary	08/15/94	Gross beta	3.8	3.2	---	Filtered		LAS
RD-01		Primary	06/01/89	Gross alpha	6.2	4.8	---	Unfiltered		BC
RD-01		Primary	06/01/89	Gross beta	6.8	0.7	---	Unfiltered		BC
RD-01		Primary	07/22/89	Gross alpha	4.2	1.5	---	Unfiltered, Decanted		BC
RD-01		Primary	07/22/89	Gross beta	8.5	0.5	---	Unfiltered, Decanted		BC

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-01		Primary	09/11/89	Gross alpha	8.7	2.8	---	Filtered		BC
RD-01		Primary	09/11/89	Gross alpha	11.5	3.1	---	Unfiltered		UST
RD-01		Primary	09/11/89	Gross beta	14.7	1	---	Filtered		BC
RD-01		Primary	09/11/89	Gross beta	12.5	1.1	---	Unfiltered		UST
RD-02		Primary	06/03/89	Gross alpha	6.9	3.2	---	Unfiltered		BC
RD-02		Primary	06/03/89	Gross beta	2.3	0.6	---	Unfiltered		BC
RD-02		Primary	07/23/89	Gross alpha	3.9	1.6	---	Unfiltered, Decanted		BC
RD-02		Primary	07/23/89	Gross beta	7.1	0.5	---	Unfiltered, Decanted		BC
RD-03		Primary	06/07/89	Gross alpha	1.9 U	3.1	---	Unfiltered		BC
RD-03		Primary	06/07/89	Gross beta	6.6	0.7	---	Unfiltered		BC
RD-03		Primary	07/22/89	Gross alpha	3.5	1.6	---	Unfiltered, Decanted		BC
RD-03		Primary	07/22/89	Gross beta	7.7	0.5	---	Unfiltered, Decanted		BC
RD-03		Primary	09/10/89	Gross alpha	5.9	1.5	---	Filtered		BC
RD-03		Primary	09/10/89	Gross alpha	10.5	1.9	---	Unfiltered		UST
RD-03		Primary	09/10/89	Gross beta	6.8	0.3	---	Filtered		BC
RD-03		Primary	09/10/89	Gross beta	7.1	0.3	---	Unfiltered		UST
RD-03		Primary	09/12/89	Gross alpha	10	2.2	---	Filtered		BC
RD-03		Primary	09/12/89	Gross alpha	11	2.2	---	Unfiltered		UST
RD-03		Split	09/12/89	Gross alpha	0 U	2	---	Filtered		TMA
RD-03		Split	09/12/89	Gross alpha	0 U	2	---	UnFiltered		TMA
RD-03		Primary	09/12/89	Gross beta	4	0.7	---	Filtered		BC
RD-03		Primary	09/12/89	Gross beta	4	0.7	---	Unfiltered		UST
RD-03		Split	09/12/89	Gross beta	19	3	---	Filtered		TMA
RD-03		Split	09/12/89	Gross beta	0 U	2	---	Unfiltered		TMA
RD-04		Primary	06/04/89	Gross alpha	5.1 U	7.6	---	Unfiltered		BC
RD-04		Primary	06/04/89	Gross alpha	2 U	3.5	---	Unfiltered		BC
RD-04		Primary	06/04/89	Gross beta	8.4	0.6	---	Unfiltered		BC
RD-04		Primary	06/04/89	Gross beta	4.3	1.4	---	Unfiltered		BC
RD-04		Primary	07/22/89	Gross alpha	4.6	1.6	---	Unfiltered, Decanted		BC
RD-04		Primary	07/22/89	Gross beta	9.2	0.4	---	Unfiltered, Decanted		BC
RD-05B		Primary	06/07/89	Gross alpha	9.8	2.5	---	Unfiltered		BC
RD-05B		Primary	06/07/89	Gross beta	-1 U	0.6	---	Unfiltered		BC
RD-05B		Primary	07/22/89	Gross alpha	5.1	1.7	---	Unfiltered, Decanted		BC
RD-05B		Primary	07/22/89	Gross beta	7.9	0.5	---	Unfiltered, Decanted		BC
RD-05B		Primary	09/10/89	Gross alpha	3.5	1.5	---	Filtered		BC
RD-05B		Primary	09/10/89	Gross alpha	2	1.5	---	Unfiltered		UST
RD-05B		Primary	09/10/89	Gross beta	7.3	0.3	---	Filtered		BC
RD-05B		Primary	09/10/89	Gross beta	10	0.3	---	Unfiltered		UST
RD-05B		Primary	09/10/91	Gross alpha	2.74 U	2.93	4	Filtered		IT

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-05B		Primary	09/10/91	Gross beta	7.16	2.82	4	Filtered		IT
RD-05B		Primary	03/16/93	Gross alpha	2 U	---	2	Filtered		CEP
RD-05B		Primary	03/16/93	Gross beta	3 U	---	3	Filtered		CEP
RD-05B		Primary	06/07/93	Gross alpha	10	4	2	Filtered		CEP
RD-05B		Primary	06/07/93	Gross beta	21	4	3	Filtered		CEP
RD-05B		Primary	08/09/93	Gross alpha	8	3	2	Filtered		CEP
RD-05B		Primary	08/09/93	Gross beta	13	3	3	Filtered		CEP
RD-05B		Primary	11/22/93	Gross alpha	3 U	4.7	8.2	Filtered		CEP
RD-05B		Primary	11/22/93	Gross beta	5.4 U	4.3	7.1	Filtered		CEP
RD-06		Primary	06/07/89	Gross alpha	7.3	2.2	---	Unfiltered		BC
RD-06		Primary	06/07/89	Gross beta	7.5	0.6	---	Unfiltered		BC
RD-06		Primary	07/22/89	Gross alpha	18.1	2.9	---	Unfiltered, Decanted		BC
RD-06		Primary	07/22/89	Gross beta	11.3	0.8	---	Unfiltered, Decanted		BC
RD-06		Primary	09/10/89	Gross alpha	3.2	1.3	---	Filtered		BC
RD-06		Primary	09/10/89	Gross alpha	4	1.6	---	Unfiltered		UST
RD-06		Primary	09/10/89	Gross beta	7.5	0.4	---	Filtered		BC
RD-06		Primary	09/10/89	Gross beta	5.7	0.3	---	Unfiltered		UST
RD-06		Primary	10/18/89	Gross alpha	2.1	1.98	---	Filtered		UST
RD-06		Primary	10/18/89	Gross beta	5.16	1.99	---	Filtered		UST
RD-06		Primary	10/31/89	Gross alpha	3.11	2.42	---	Filtered		UST
RD-06		Primary	10/31/89	Gross alpha	4.9	3.98	---	Unfiltered		UST
RD-06		Primary	10/31/89	Gross beta	6.22	2.79	---	Filtered		UST
RD-06		Primary	10/31/89	Gross beta	6.03	2.77	---	Unfiltered		UST
RD-06		Primary	03/06/91	Gross alpha	9.99	5.83	4	Filtered		IT
RD-06		Primary	03/06/91	Gross beta	3.58 U	2.32	4	Filtered		IT
RD-06		Primary	09/10/91	Gross alpha	0.285 U	1.87	4	Filtered		IT
RD-06		Primary	09/10/91	Gross beta	5.57	2.58	4	Filtered		IT
RD-06		Primary	03/10/92	Gross alpha	2 U	---	2	Filtered		CEP
RD-06		Primary	03/10/92	Gross beta	3 U	---	3	Filtered		CEP
RD-06		Primary	03/16/93	Gross alpha	4	3	2	Filtered	High statistics due to large amount of solids.	CEP
RD-06		Primary	03/16/93	Gross beta	7	4	3	Filtered		CEP
RD-06		Primary	06/07/93	Gross alpha	3	2	2	Filtered	High statistics due to large amount of solids.	CEP
RD-06		Primary	06/07/93	Gross beta	8	7	3	Filtered		CEP
RD-06		Primary	08/09/93	Gross alpha	5	3	2	Filtered		CEP
RD-06		Primary	08/09/93	Gross beta	4	3	3	Filtered		CEP
RD-06		Primary	11/22/93	Gross alpha	1.5 U	4.1	7.9	Filtered		CEP
RD-06		Primary	11/22/93	Gross beta	5.5 U	4.6	7.4	Filtered		CEP
RD-07		Primary	06/04/89	Gross alpha	11.5	5	---	Unfiltered		BC
RD-07		Primary	06/04/89	Gross beta	8.1	1	---	Unfiltered		BC
RD-07		Primary	07/22/89	Gross alpha	6.6	1.5	---	Unfiltered, Decanted		BC
RD-07		Primary	07/22/89	Gross beta	5.3	0.5	---	Unfiltered, Decanted		BC

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-07		Primary	09/13/89	Gross alpha	2.6	1.8	---	Filtered		BC
RD-07		Primary	09/13/89	Gross alpha	8	2.6	---	Unfiltered		BC
RD-07		Primary	09/13/89	Gross beta	9.9	0.7	---	Filtered		BC
RD-07		Primary	09/13/89	Gross beta	13.6	0.9	---	Unfiltered		BC
RD-07		Primary	12/05/90	Gross alpha	7.19	3.19	4	Filtered		IT
RD-07		Primary	12/05/90	Gross beta	6.66	2.72	4	Filtered		IT
RD-07		Primary	03/09/91	Gross alpha	5.7	2.67	4	Filtered		IT
RD-07		Primary	03/09/91	Gross beta	3.63 U	2.42	4	Filtered		IT
RD-07		Primary	12/07/91	Gross alpha	7.42	3.19	4	Filtered		IT
RD-07		Primary	12/07/91	Gross beta	5.06	1.61	4	Filtered		IT
RD-07		Primary	03/06/92	Gross alpha	2 U	---	2	Filtered		CEP
RD-07		Primary	03/06/92	Gross beta	6	4	3	Filtered		CEP
RD-07		Primary	03/07/93	Gross alpha	3	2	2	Filtered	High statistics due to large amount of solids.	CEP
RD-07		Primary	03/07/93	Gross beta	5	4	3	Filtered		CEP
RD-07		Primary	02/27/94	Gross alpha	6.4	3.7	4.3	Filtered		LAS
RD-07		Primary	02/27/94	Gross beta	4.7	2.7	4.2	Filtered		LAS
RD-07		Primary	08/09/94	Gross alpha	6.1	3.5	4	Filtered		LAS
RD-07		Primary	08/09/94	Gross beta	5.4	2.8	4.3	Filtered		LAS
RD-07		Primary	02/09/95	Gross alpha	3.4 U	3.3	5.1	Filtered		LAS
RD-07		Duplicate	02/09/95	Gross alpha	10.8	5.1	5.6	Filtered		LAS
RD-07		Primary	02/09/95	Gross beta	5.9	3.2	4.9	Filtered		LAS
RD-07		Duplicate	02/09/95	Gross beta	6.6	3.5	5.3	Filtered		LAS
RD-07		Primary	08/04/95	Gross alpha	6.6	3.6	4.4	Filtered		LAS
RD-07		Primary	08/04/95	Gross beta	7.5	2.8	4	Filtered		LAS
RD-07		Primary	02/07/96	Gross alpha	12.2	4.5	4.7	Filtered		LAS
RD-07		Primary	02/07/96	Gross beta	3.1	1.9	3	Filtered		LAS
RD-07		Primary	08/18/96	Gross alpha	8.7	4.5	5.3	Filtered		LAS
RD-07		Primary	08/18/96	Gross beta	6.5	3.2	4.8	Filtered		LAS
RD-07		Primary	02/25/97	Gross alpha	9.5	3.9	4	Filtered		LAS
RD-07		Primary	02/25/97	Gross beta	5.9	2.4	3.6	Filtered		LAS
RD-07		Primary	08/25/97	Gross alpha	12.5	5.6	6.1	Filtered		LAS
RD-07		Primary	08/25/97	Gross beta	8.1	4.3	6.6	Filtered		LAS
RD-07		Primary	02/05/98	Gross alpha	10.3	2.8	1.77	Filtered		TN
RD-07		Primary	02/05/98	Gross beta	8.27	1.7	2.12	Filtered		TN
RD-07		Primary	08/05/98	Gross alpha	9.43 U	8.9	13.3	Filtered		TN
RD-07		Primary	08/05/98	Gross beta	-7.81 U	18	32.4	Filtered		TN
RD-07		Primary	02/06/99	Gross alpha	5.53	2.3	2.01	Filtered		TN
RD-07		Primary	02/06/99	Gross beta	11.9	1.9	2.33	Filtered		TN
RD-07		Primary	08/19/99	Gross alpha	6.94	2.3	1.71	Filtered		TN
RD-07		Primary	08/19/99	Gross beta	8.51	1.7	1.98	Filtered		TN
RD-07		Primary	03/16/00	Gross alpha	9.92	3.2	2.61	Filtered		TR
RD-07		Primary	03/16/00	Gross beta	9.58	2.3	2.96	Filtered		TR
RD-07		Primary	08/10/00	Gross alpha	8.94	2.9	2.65	Filtered		TR
RD-07		Primary	08/10/00	Gross beta	7.04	2.6	3.78	Filtered		TR
RD-07		Primary	02/23/01	Gross alpha	12.4	3.7	3.68	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-07		Primary	02/23/01	Gross beta	8.74	2.1	2.92	Filtered		ES
RD-07		Primary	11/07/01	Gross alpha	6.18	3.28	1.8	Filtered		DL
RD-07		Primary	11/07/01	Gross beta	5.9	1.5	2.9	Filtered		DL
RD-07		Primary	02/22/02	Gross alpha	18.36	5.66	1.94	Filtered		DL
RD-07		Primary	02/22/02	Gross beta	4.37	1.15	2.93	Filtered		DL
RD-07	Z13	Primary	08/20/02	Gross alpha	4.94	3.5	3.94	Filtered		ES
RD-07	Z13	Primary	08/20/02	Gross beta	5.9	1.6	2.16	Filtered		ES
RD-07	Z3	Primary	01/29/03	Gross alpha	14.4	3.5	2.34	Filtered		ES
RD-07	Z3	Primary	01/29/03	Gross beta	15.5	3.1	4.07	Filtered		ES
RD-07	Z3	Primary	02/10/03	Gross alpha	14.4	3.5	2.34	Filtered		ES
RD-07	Z3	Primary	02/10/03	Gross beta	15.5	3.1	4.07	Filtered		ES
RD-07	Z13	Primary	08/28/03	Gross alpha	6.82	2.9	2.19	Filtered		ES
RD-07	Z13	Primary	08/28/03	Gross beta	9.29	3.2	3.72	Filtered		ES
RD-07	Z4	Primary	08/25/04	Gross alpha	3.04	2	1.8	Filtered		ES
RD-07	Z4	Primary	08/25/04	Gross beta	8.63	3	3.34	Filtered		ES
RD-07	Z5	Primary	08/25/04	Gross alpha	3.03	2.1	2.22	Filtered		ES
RD-07	Z5	Primary	08/25/04	Gross beta	8.02	2.6	2.62	Filtered		ES
RD-07	Z6	Primary	08/25/04	Gross alpha	4.22	2.5	2.04	Filtered		ES
RD-07	Z6	Primary	08/25/04	Gross beta	7.83	2.8	2.6	Filtered		ES
RD-07	Z7	Primary	08/25/04	Gross alpha	3.36	2	1.91	Filtered		ES
RD-07	Z7	Primary	08/25/04	Gross beta	7.9	2.5	2.41	Filtered		ES
RD-07	Z8	Primary	08/25/04	Gross alpha	4.96	2.5	2.52	Filtered		ES
RD-07	Z8	Primary	08/25/04	Gross beta	7.99	2.3	2.1	Filtered		ES
RD-07	Z9	Primary	08/25/04	Gross alpha	6.61	2.7	1.65	Filtered		ES
RD-07	Z9	Primary	08/25/04	Gross beta	8.8	2.6	2.5	Filtered		ES
RD-07	Z10	Primary	08/25/04	Gross alpha	2.8 J	1.8	1.64	Filtered		ES
RD-07	Z10	Primary	08/25/04	Gross beta	6.13	2.1	2.34	Filtered		ES
RD-07	Z11	Primary	08/25/04	Gross alpha	3.14	1.8	1.6	Filtered		ES
RD-07	Z11	Primary	08/25/04	Gross beta	5.91	2.1	2.22	Filtered		ES
RD-07	Z12	Primary	08/25/04	Gross alpha	3.01	1.8	1.5	Filtered		ES
RD-07	Z12	Primary	08/25/04	Gross beta	10.9	3	2.51	Filtered		ES
RD-07	Z13	Primary	08/25/04	Gross alpha	3.11	1.9	1.77	Filtered		ES
RD-07	Z13	Primary	08/25/04	Gross beta	7.64	2.4	2.37	Filtered		ES
RD-07	Z3	Primary	02/17/05	Gross alpha	4.7	2.4	2.26	Filtered		ES
RD-07	Z3	Primary	02/17/05	Gross beta	-3.15 U	2.8	4.88	Filtered		ES
RD-07	Z3	Primary	08/31/05	Gross alpha	9.55	2.8	1.51	Filtered		ES
RD-07	Z3	Primary	08/31/05	Gross beta	5.92	1.8	1.74	Filtered		ES
RD-07	Z3	Primary	02/16/06	Gross alpha	22.8	6.5	2.79	Filtered		ES
RD-07	Z3	Primary	02/16/06	Gross beta	15.6	4	2.9	Filtered		ES
RD-07	Z3	Primary	08/16/06	Gross alpha	36.3	8.4	2.91	Filtered		ES
RD-07	Z3	Primary	08/16/06	Gross beta	19.8	4.5	2.63	Filtered		ES
RD-07	Z3	Primary	02/08/07	Gross alpha	39.4	13	7.24	Filtered		ES
RD-07	Z3	Primary	02/08/07	Gross beta	22	7.2	7.49	Filtered		ES
RD-07	Z3	Primary	08/09/07	Gross alpha	40	14	7.81	Filtered		ES
RD-07	Z3	Primary	08/09/07	Gross beta	17.2	7.5	9.92	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-07	Z3	Primary	02/05/08	Gross alpha	43.1	10	2.78	Filtered		ES
RD-07	Z3	Primary	02/05/08	Gross beta	20.2	4.8	3.48	Filtered		ES
RD-07	Z3	Primary	08/06/08	Gross alpha	26.4	6.9	2.43	Filtered		ES
RD-07	Z3	Primary	08/06/08	Gross beta	18.4	3.5	4.15	Filtered		ES
RD-08		Primary	06/07/89	Gross alpha	-1 U	2.9	---	Unfiltered		BC
RD-08		Primary	06/07/89	Gross beta	4.1	0.7	---	Unfiltered		BC
RD-08		Primary	07/24/89	Gross alpha	-1 U	1	---	Unfiltered, Decanted		BC
RD-08		Primary	07/24/89	Gross beta	4.5	0.3	---	Unfiltered, Decanted		BC
RD-08		Primary	09/13/89	Gross alpha	-1 U	2	---	Filtered		BC
RD-08		Primary	09/13/89	Gross alpha	-1 U	1.4	---	Unfiltered		BC
RD-08		Primary	09/13/89	Gross beta	1.9	0.8	---	Filtered		BC
RD-08		Primary	09/13/89	Gross beta	6.9	0.5	---	Unfiltered		BC
RD-09		Primary	03/03/89	Gross alpha	4	2	---	Unfiltered		FGL
RD-09		Primary	03/03/89	Gross beta	7	4	---	Unfiltered		FGL
RD-09		Primary	06/03/89	Gross alpha	-1 U	3	---	Unfiltered		BC
RD-09		Primary	06/03/89	Gross beta	6.8	0.7	---	Unfiltered		BC
RD-10		Primary	06/07/89	Gross alpha	2.3 U	2.5	---	Unfiltered		BC
RD-10		Primary	06/07/89	Gross beta	2.6	0.5	---	Unfiltered		BC
RD-10		Primary	07/22/89	Gross alpha	6.9	1.8	---	Unfiltered, Decanted		BC
RD-10		Primary	07/22/89	Gross beta	5.9	0.4	---	Unfiltered, Decanted		BC
RD-10		Primary	09/10/89	Gross alpha	4	1.5	---	Filtered		BC
RD-10		Primary	09/10/89	Gross alpha	5	1.6	---	Unfiltered		UST
RD-10		Primary	09/10/89	Gross beta	10	0.3	---	Filtered		BC
RD-10		Primary	09/10/89	Gross beta	14	0.4	---	Unfiltered		UST
RD-10		Primary	03/06/91	Gross alpha	1.85 U	2.44	4	Filtered		IT
RD-10		Primary	03/06/91	Gross beta	2.56 U	2.02	4	Filtered		IT
RD-10		Primary	03/07/92	Gross alpha	2 U	---	2	Filtered		CEP
RD-10		Primary	03/07/92	Gross beta	3 U	---	3	Filtered		CEP
RD-12		Primary	06/03/89	Gross alpha	-1 U	3.9	---	Unfiltered		BC
RD-12		Primary	06/03/89	Gross beta	3.3	0.9	---	Unfiltered		BC
RD-12		Primary	07/22/89	Gross alpha	-1 U	1.5	---	Unfiltered, Decanted		BC
RD-12		Primary	07/22/89	Gross beta	12.4	1.3	---	Unfiltered, Decanted		BC
RD-13		Primary	09/05/89	Gross alpha	5.9	1.3	---	Filtered		BC
RD-13		Primary	09/05/89	Gross alpha	7.6	1.6	---	Unfiltered		BC
RD-13		Primary	09/05/89	Gross beta	10.1	0.3	---	Filtered		BC
RD-13		Primary	09/05/89	Gross beta	10.6	0.3	---	Unfiltered		BC
RD-13		Primary	09/12/89	Gross alpha	7	2.4	---	Filtered		UST
RD-13		Primary	09/12/89	Gross alpha	7	1.9	---	Unfiltered		UST
RD-13		Split	09/12/89	Gross alpha	4	3	---	Filtered		TMA
RD-13		Split	09/12/89	Gross alpha	0 U	2	---	Unfiltered		TMA

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-13		Primary	09/12/89	Gross beta	5.6	0.7	---	Filtered		UST
RD-13		Primary	09/12/89	Gross beta	46	0.5	---	Unfiltered		UST
RD-13		Split	09/12/89	Gross beta	2	2	---	Filtered		TMA
RD-13		Split	09/12/89	Gross beta	7	2	---	Unfiltered		TMA
RD-13		Primary	10/17/89	Gross alpha	5.9	2.4	---	Filtered		UST
RD-13		Primary	10/17/89	Gross beta	10.3	0.6	---	Filtered		UST
RD-13		Primary	12/06/90	Gross alpha	1.69 U	2.16	4	Filtered		IT
RD-13		Primary	12/06/90	Gross beta	5.03	2.65	4	Filtered		IT
RD-13		Primary	03/08/91	Gross alpha	2.15 U	2.02	4	Filtered		IT
RD-13		Primary	03/08/91	Gross beta	6.02	2.72	4	Filtered		IT
RD-13		Primary	12/10/91	Gross alpha	4.02	2.51	4	Filtered		IT
RD-13		Primary	12/10/91	Gross beta	5.68	1.77	4	Filtered		IT
RD-13		Primary	03/12/92	Gross alpha	2 U	---	2	Filtered		CEP
RD-13		Primary	03/12/92	Gross beta	3 U	---	3	Filtered		CEP
RD-13		Primary	03/08/93	Gross alpha	7	3	2	Filtered		CEP
RD-13		Primary	03/08/93	Gross beta	7	4	3	Filtered		CEP
RD-13		Primary	08/26/97	Gross alpha	7.5	4.6	5.7	Filtered		LAS
RD-13		Primary	08/26/97	Gross beta	6.4	3.8	6	Filtered		LAS
RD-14		Primary	08/29/89	Gross alpha	4	2.07	---	Filtered		BC
RD-14		Primary	08/29/89	Gross alpha	5	2.19	---	Unfiltered		BC
RD-14		Primary	08/29/89	Gross beta	4	0.77	---	Filtered		BC
RD-14		Primary	08/29/89	Gross beta	3	0.8	---	Unfiltered		BC
RD-14		Primary	10/18/89	Gross alpha	5.8	2.3	---	Filtered		UST
RD-14		Duplicate	10/18/89	Gross alpha	4.83	2.48	---	Filtered		UST
RD-14		Primary	10/18/89	Gross beta	8.6	0.7	---	Filtered		UST
RD-14		Duplicate	10/18/89	Gross beta	1.97	1.65	---	Filtered		UST
RD-14		Primary	10/31/89	Gross alpha	5.27	2.62	---	Filtered		UST
RD-14		Primary	10/31/89	Gross alpha	6.33	3.05	---	Unfiltered		UST
RD-14		Primary	10/31/89	Gross beta	5.01	2.62	---	Filtered		UST
RD-14		Primary	10/31/89	Gross beta	5.15	2.63	---	Unfiltered		UST
RD-14		Primary	12/07/90	Gross alpha	6.29	3.02	4	Filtered		IT
RD-14		Primary	12/07/90	Gross beta	6.69	2.8	4	Filtered		IT
RD-14		Primary	03/09/91	Gross alpha	9.44	4.63	4	Filtered		IT
RD-14		Primary	03/09/91	Gross beta	5.36	2.53	4	Filtered		IT
RD-14		Primary	12/06/91	Gross alpha	5.92	3.4	4	Filtered		IT
RD-14		Primary	12/06/91	Gross beta	7.66	2.22	4	Filtered		IT
RD-14		Primary	03/05/92	Gross alpha	3	2	2	Filtered		CEP
RD-14		Primary	03/05/92	Gross beta	3 U	---	3	Filtered		CEP
RD-14		Primary	03/07/93	Gross alpha	4	3	2	Filtered	High statistics due to large amount of solids.	CEP
RD-14		Primary	03/07/93	Gross beta	3 U	---	3	Filtered		CEP
RD-14		Primary	02/24/94	Gross alpha	1.8 U	3	5.3	Filtered		LAS
RD-14		Primary	02/24/94	Gross beta	0.8 U	3.2	5.6	Filtered		LAS
RD-14		Primary	02/08/95	Gross alpha	5.4 U	4.4	6.4	Filtered		LAS
RD-14		Primary	02/08/95	Gross beta	5.7	3.5	5.4	Filtered		LAS
RD-14		Primary	02/16/96	Gross alpha	4.4 U	3.4	4.8	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-14		Primary	02/16/96	Gross beta	5.4	2.2	3.3	Filtered		LAS
RD-14		Primary	02/07/97	Gross alpha	3.7 U	3.6	5.6	Filtered		LAS
RD-14		Primary	02/07/97	Gross beta	7.7	3.3	5	Filtered		LAS
RD-15		Primary	08/30/89	Gross alpha	6	2.62	---	Filtered		BC
RD-15		Primary	08/30/89	Gross alpha	8	2.5	---	Unfiltered		BC
RD-15		Primary	08/30/89	Gross beta	12	0.89	---	Filtered		BC
RD-15		Primary	08/30/89	Gross beta	5	0.89	---	Unfiltered		BC
RD-15		Primary	10/19/89	Gross alpha	12.5	2.7	---	Filtered		UST
RD-15		Primary	10/19/89	Gross beta	10.7	1	---	Filtered		UST
RD-15		Primary	12/07/90	Gross alpha	5.82	2.76	4	Filtered		IT
RD-15		Primary	12/07/90	Gross beta	6.45	2.77	4	Filtered		IT
RD-15		Primary	03/10/91	Gross alpha	9.29	3.41	4	Filtered		IT
RD-15		Primary	03/10/91	Gross beta	8.99	3.05	4	Filtered		IT
RD-15		Primary	12/06/91	Gross alpha	12.3	5.11	4	Filtered		IT
RD-15		Primary	12/06/91	Gross beta	9.19	2.48	4	Filtered		IT
RD-15		Primary	03/11/92	Gross alpha	3	2	2	Filtered		CEP
RD-15		Split	03/11/92	Gross alpha	7.7	5.7	2	Filtered		TEL
RD-15		Primary	03/11/92	Gross beta	7	3	3	Filtered		CEP
RD-15		Split	03/11/92	Gross beta	14	3	3	Filtered		TEL
RD-15		Primary	05/10/01	Gross alpha	2.02 U	2.4	3.45	Filtered		ES
RD-15		Primary	05/10/01	Gross beta	3.68 U	3	4.76	Filtered		ES
RD-15		Primary	03/06/02	Gross alpha	7.84	3.91	3.01	Filtered		DL
RD-15		Primary	03/06/02	Gross beta	4.77	1.32	2.75	Filtered		DL
RD-15		Primary	02/26/03	Gross alpha	5.24	3.1	3.69	Filtered		ES
RD-15		Primary	02/26/03	Gross beta	14.4	4.6	6.44	Filtered		ES
RD-15		Primary	02/24/04	Gross alpha	3.63 U	3.3	3.86	Filtered		ES
RD-15		Primary	02/24/04	Gross beta	7.91	3.6	4.63	Filtered		ES
RD-15		Primary	08/09/04	Gross alpha	4.1	3	3.09	Filtered		ES
RD-15		Primary	08/09/04	Gross beta	10.4	3.5	3.52	Filtered		ES
RD-15		Primary	02/14/05	Gross alpha	8	3.6	2.98	Filtered		ES
RD-15		Primary	02/14/05	Gross beta	8.34	3.1	3.71	Filtered		ES
RD-15		Primary	08/24/05	Gross alpha	5.23	1.8	1.24	Filtered		ES
RD-15		Primary	08/24/05	Gross beta	7.22	2.2	2.48	Filtered		ES
RD-15		Primary	02/16/06	Gross alpha	5.52	1.98	1.69	Filtered		STL
RD-15		Primary	02/16/06	Gross beta	10.9	2.52	3.19	Filtered		STL
RD-15		Primary	02/16/06	Gross alpha	4.68	3.2	4.13	Filtered		ES
RD-15		Split	02/16/06	Gross alpha	5.52	2	1.69	Filtered		STL
RD-15		Primary	02/16/06	Gross beta	8.84	2.9	3.06	Filtered		ES
RD-15		Split	02/16/06	Gross beta	10.9	2	3.19	Filtered		STL
RD-15		Primary	08/08/06	Gross alpha	6.83	2.3	1.91	Filtered		ES
RD-15		Split	08/08/06	Gross alpha	4.16	2.9	3.22	Filtered		STL
RD-15		Primary	08/08/06	Gross beta	7.49	2.6	3.2	Filtered		ES
RD-15		Split	08/08/06	Gross beta	11.1	3.2	4.72	Filtered		STL
RD-15		Primary	02/06/07	Gross alpha	5.02	2.1	2.11	Filtered		ES
RD-15		Primary	02/06/07	Gross beta	7.42	2.3	2.52	Filtered		ES

See last page of table for notes and abbreviations.

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RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-15		Primary	08/07/07	Gross alpha	3.54 U	3.2	4.44	Filtered		ES
RD-15		Primary	08/07/07	Gross beta	8.24	2.4	2.58	Filtered		ES
RD-15		Primary	02/20/08	Gross alpha	10.8	3.6	2.64	Filtered		ES
RD-15		Primary	02/20/08	Gross beta	6.9	2	2.99	Filtered		ES
RD-15		Primary	08/06/08	Gross alpha	6.28	2.7	2.61	Filtered		ES
RD-15		Primary	08/06/08	Gross beta	5.74	2	2.82	Filtered		ES
RD-16		Primary	09/14/89	Gross alpha	4.1	2	---	Filtered		BC
RD-16		Primary	09/14/89	Gross alpha	15.3	3.7	---	Unfiltered		BC
RD-16		Primary	09/14/89	Gross beta	6.6	1	---	Filtered		BC
RD-16		Primary	09/14/89	Gross beta	5.9	1.8	---	Unfiltered		BC
RD-16		Primary	10/25/89	Gross alpha	6.4	2.3	---	Filtered		UST
RD-16		Primary	10/25/89	Gross beta	9.2	0.6	---	Filtered		UST
RD-16		Primary	07/01/90	Gross alpha	1.92 U	2.37	---	Filtered		UST
RD-16		Primary	07/01/90	Gross beta	6.35	2.87	---	Filtered		UST
RD-16		Primary	12/07/90	Gross alpha	4.88	2.54	4	Filtered		IT
RD-16		Primary	12/07/90	Gross beta	6.39	2.72	4	Filtered		IT
RD-16		Primary	03/09/91	Gross alpha	6.12	2.82	4	Filtered		IT
RD-16		Primary	03/09/91	Gross beta	4.2	2.51	4	Filtered		IT
RD-16		Primary	12/05/91	Gross alpha	3 U	2.27	4	Filtered		IT
RD-16		Primary	12/05/91	Gross beta	6.38	1.93	4	Filtered		IT
RD-16		Primary	06/06/92	Gross alpha	2	2	2	Filtered		CEP
RD-16		Primary	06/06/92	Gross beta	-2 U	3	3	Filtered		CEP
RD-16		Primary	05/27/98	Gross alpha	4.72	2.4	2.75	Filtered		TN
RD-16		Primary	05/27/98	Gross beta	7.56	1.7	2.12	Filtered		TN
RD-17		Primary	09/21/89	Gross alpha	1.7	1.6	---	Filtered		BC
RD-17		Primary	09/21/89	Gross alpha	9.4	2.1	---	Unfiltered		BC
RD-17		Primary	09/21/89	Gross beta	8.5	0.8	---	Filtered		BC
RD-17		Primary	09/21/89	Gross beta	8.3	1.1	---	Unfiltered		BC
RD-17		Primary	10/18/89	Gross alpha	-1 U	1.5	---	Filtered		UST
RD-17		Duplicate	10/18/89	Gross alpha	2.8	2	---	Filtered		UST
RD-17		Primary	10/18/89	Gross beta	5.6	0.5	---	Filtered		UST
RD-17		Duplicate	10/18/89	Gross beta	5.7	0.5	---	Filtered		UST
RD-17		Primary	12/04/90	Gross alpha	4.5	2.87	4	Filtered		IT
RD-17		Primary	12/04/90	Gross beta	1.63 U	2.22	4	Filtered		IT
RD-17		Primary	03/05/91	Gross alpha	4.22	2.27	4	Filtered		IT
RD-17		Primary	03/05/91	Gross beta	1.69 U	0.994	4	Filtered		IT
RD-17		Primary	12/07/91	Gross alpha	2.42	1.81	1	Filtered		IT
RD-17		Split	12/07/91	Gross alpha	2 U	---	2	Filtered		CEP
RD-17		Primary	12/07/91	Gross beta	4.94	1.63	1	Filtered		IT
RD-17		Split	12/07/91	Gross beta	3 U	---	3	Filtered		CEP
RD-17		Primary	03/04/92	Gross alpha	2 U	---	2	Filtered		CEP
RD-17		Primary	03/04/92	Gross beta	3 U	---	3	Filtered		CEP
RD-17		Primary	03/05/93	Gross alpha	3	2	2	Filtered	High statistics due to large amount of solids.	CEP
RD-17		Primary	03/05/93	Gross beta	4	3	3	Filtered		CEP

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-17		Primary	02/26/94	Gross alpha	3.8 U	3.5	5.3	Filtered		LAS
RD-17		Primary	02/26/94	Gross beta	7.4	2.9	4.2	Filtered		LAS
RD-17		Primary	02/08/95	Gross alpha	4.7 U	3.6	4.9	Filtered		LAS
RD-17		Primary	02/08/95	Gross beta	3.1 U	3	5	Filtered		LAS
RD-17		Primary	02/04/96	Gross alpha	8.8	3.3	3.5	Filtered		LAS
RD-17		Primary	02/04/96	Gross beta	2 U	1.5	2.4	Filtered		LAS
RD-17		Primary	02/08/97	Gross alpha	4.5	3.2	4.5	Filtered		LAS
RD-17		Primary	02/08/97	Gross beta	7.3	2.6	3.7	Filtered		LAS
RD-17		Primary	02/04/98	Gross alpha	4.18	2	2.06	Filtered		TN
RD-17		Primary	02/04/98	Gross beta	6.25	1.6	2.11	Filtered		TN
RD-17		Primary	02/08/99	Gross alpha	4.31	2	1.96	Filtered		TN
RD-17		Primary	02/08/99	Gross beta	5.94	1.7	2.33	Filtered		TN
RD-17		Primary	02/21/00	Gross alpha	3.57	2.6	3.43	Filtered		TR
RD-17		Primary	02/21/00	Gross beta	6.66	3.7	5.66	Filtered		TR
RD-17		Primary	02/14/01	Gross alpha	4.46	2.6	2.79	Filtered		ES
RD-17		Primary	02/14/01	Gross beta	7.87	1.6	1.98	Filtered		ES
RD-17		Primary	03/01/02	Gross alpha	4.7	1.96	1.2	Filtered		DL
RD-17		Primary	03/01/02	Gross beta	4.59	1.3	2.57	Filtered		DL
RD-17		Primary	02/24/03	Gross alpha	2.73 J	2.3	2.62	Filtered		ES
RD-17		Primary	02/24/03	Gross beta	7.25	3.6	5.2	Filtered		ES
RD-17		Primary	02/23/04	Gross alpha	5.68	3.4	3.06	Filtered		ES
RD-17		Primary	02/23/04	Gross beta	9.16	3.8	4.52	Filtered		ES
RD-17		Primary	08/09/04	Gross alpha	3.07	2.7	2.75	Filtered		ES
RD-17		Primary	08/09/04	Gross beta	8.44	3.7	4.73	Filtered		ES
RD-17		Primary	02/15/05	Gross alpha	2.93 U	2.6	3.52	Filtered		ES
RD-17		Primary	02/15/05	Gross beta	7.32	2.9	3.68	Filtered		ES
RD-17		Primary	08/23/05	Gross alpha	2.61 J	1.3	1.33	Filtered		ES
RD-17		Primary	08/23/05	Gross beta	7.49	2	1.94	Filtered		ES
RD-17		Primary	02/16/06	Gross alpha	0.699 U	2.7	4.81	Filtered		ES
RD-17		Primary	02/16/06	Gross beta	7.98	3.2	3.95	Filtered		ES
RD-17		Primary	08/10/06	Gross alpha	3.32	1.6	1.71	Filtered		ES
RD-17		Primary	08/10/06	Gross beta	5.63	2.1	2.65	Filtered		ES
RD-17		Primary	02/06/07	Gross alpha	2.72 J	1.5	1.81	Filtered		ES
RD-17		Split	02/06/07	Gross alpha	6.95	2.9	1.81	Filtered		STL
RD-17		Primary	02/06/07	Gross beta	6.32	1.7	1.68	Filtered		ES
RD-17		Split	02/06/07	Gross beta	7.82	2.9	4.77	Filtered		STL
RD-17		Primary	08/06/07	Gross alpha	5.49	2.5	2.87	Filtered		ES
RD-17		Primary	08/06/07	Gross beta	6.82	2.2	2.46	Filtered		ES
RD-17		Primary	02/22/08	Gross alpha	5.71	2.5	2.29	Filtered		ES
RD-17		Primary	02/22/08	Gross beta	8.42	1.8	2.26	Filtered		ES
RD-17		Primary	08/06/08	Gross alpha	5.66	2.9	3.6	Filtered		ES
RD-17		Primary	08/06/08	Gross beta	7.02	1.9	2.52	Filtered		ES
RD-18		Primary	09/15/89	Gross alpha	12.7	2.3	---	Filtered		BC
RD-18		Primary	09/15/89	Gross alpha	16	2.5	---	Unfiltered		BC
RD-18		Primary	09/15/89	Gross beta	6.7	1.2	---	Filtered		BC

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-18		Primary	09/15/89	Gross beta	14.4	1.2	---	Unfiltered		BC
RD-18		Primary	10/26/89	Gross alpha	6	2	---	Filtered		UST
RD-18		Primary	10/26/89	Gross beta	9.6	0.7	---	Filtered		UST
RD-18		Primary	07/01/90	Gross alpha	3.85	2.23	---	Filtered		UST
RD-18		Primary	07/01/90	Gross beta	6.95	2.79	---	Filtered		UST
RD-18		Primary	12/08/90	Gross alpha	8.2	3.26	4	Filtered		IT
RD-18		Primary	12/08/90	Gross beta	6.62	2.9	4	Filtered		IT
RD-18		Primary	03/09/91	Gross alpha	3.31 U	1.87	4	Filtered		IT
RD-18		Primary	03/09/91	Gross beta	4.05	2.42	4	Filtered		IT
RD-18		Primary	12/11/91	Gross alpha	2.51 U	1.91	4	Filtered		IT
RD-18		Primary	12/11/91	Gross beta	3.45 U	1.27	4	Filtered		IT
RD-18		Primary	03/12/92	Gross alpha	7	2	2	Filtered		CEP
RD-18		Primary	03/12/92	Gross beta	11	3	3	Filtered		CEP
RD-18		Primary	03/17/93	Gross alpha	4	2	2	Filtered		TN
RD-18		Primary	03/17/93	Gross beta	12	4	3	Filtered		TN
RD-18		Primary	06/08/93	Gross alpha	8	3	2	Filtered		CEP
RD-18		Primary	06/08/93	Gross beta	22	4	3	Filtered		CEP
RD-18		Primary	08/09/93	Gross alpha	7	2	2	Filtered		CEP
RD-18		Primary	08/09/93	Gross beta	16	3	3	Filtered		CEP
RD-18		Primary	11/04/93	Gross alpha	1.5 U	1.9	3.1	Filtered		CEP
RD-18		Primary	11/04/93	Gross beta	7.2	2.5	3.5	Filtered		CEP
RD-18		Primary	02/22/94	Gross alpha	13.6	4.4	3.6	Filtered		LAS
RD-18		Primary	02/22/94	Gross beta	8.7	2.6	3.5	Filtered		LAS
RD-18		Primary	02/17/95	Gross alpha	22.1	5.3	3.3	Filtered		LAS
RD-18		Reanalysis of Primary	02/17/95	Gross alpha	8.5	3.4	3.4	Filtered		LAS
RD-18		Primary	02/17/95	Gross beta	20.4	3	3	Filtered		LAS
RD-18		Reanalysis of Primary	02/17/95	Gross beta	12.2	2.2	2.5	Filtered		LAS
RD-18		Primary	02/05/96	Gross alpha	1.9 U	2.3	3.9	Filtered		LAS
RD-18		Primary	02/05/96	Gross beta	2.4 U	1.6	2.6	Filtered		LAS
RD-18		Primary	02/06/97	Gross alpha	11.2	3.8	3.5	Filtered		LAS
RD-18		Primary	02/06/97	Gross beta	7.3	2.3	3.2	Filtered		LAS
RD-18		Primary	02/06/98	Gross alpha	3.42	1.5	1.5	Filtered		TN
RD-18		Primary	02/06/98	Gross beta	4.95	1.5	2.03	Filtered		TN
RD-19		Primary	08/31/89	Gross alpha	13	2.41	---	Filtered		BC
RD-19		Primary	08/31/89	Gross alpha	10	2.35	---	Unfiltered		BC
RD-19		Primary	08/31/89	Gross beta	1.3	0.88	---	Filtered		BC
RD-19		Primary	08/31/89	Gross beta	18	0.77	---	Unfiltered		BC
RD-19		Primary	10/26/89	Gross alpha	11	2.1	---	Filtered		UST
RD-19		Primary	10/26/89	Gross beta	13.4	0.7	---	Filtered		UST
RD-19		Primary	12/08/90	Gross alpha	6.66	3.17	4	Filtered		IT
RD-19		Duplicate	12/08/90	Gross alpha	11.9	5.63	4	Filtered		IT
RD-19		Primary	12/08/90	Gross beta	9.06	3.2	4	Filtered		IT
RD-19		Duplicate	12/08/90	Gross beta	11.6	3.38	4	Filtered		IT
RD-19		Primary	03/08/91	Gross alpha	11.7	5.8	4	Filtered		IT

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-19		Duplicate	03/08/91	Gross alpha	8.8	4.49	4	Filtered		IT
RD-19		Primary	03/08/91	Gross beta	7.74	2.89	4	Filtered		IT
RD-19		Duplicate	03/08/91	Gross beta	7.96	2.93	4	Filtered		IT
RD-19		Primary	12/11/91	Gross alpha	9.2	5.31	4	Filtered		IT
RD-19		Primary	12/11/91	Gross beta	11.2	3.47	4	Filtered		IT
RD-19		Primary	03/12/92	Gross alpha	17	4	2	Filtered		CEP
RD-19		Primary	03/12/92	Gross beta	15	4	3	Filtered		CEP
RD-19		Primary	03/08/93	Gross alpha	6	4	2	Filtered	High statistics due to large amount of solids.	CEP
RD-19		Duplicate	03/08/93	Gross alpha	5	4	2	Filtered	High statistics due to large amount of solids.	CEP
RD-19		Primary	03/08/93	Gross beta	12	4	3	Filtered	High statistics due to large amount of solids.	CEP
RD-19		Duplicate	03/08/93	Gross beta	13	4	3	Filtered	High statistics due to large amount of solids.	CEP
RD-19		Primary	02/26/94	Gross alpha	18	9.2	11	Filtered		LAS
RD-19		Reanalysis of Primary	02/26/94	Gross alpha	21	10	11	Filtered		LAS
RD-19		Primary	02/26/94	Gross beta	17.5	5.4	7.6	Filtered		LAS
RD-19		Reanalysis of Primary	02/26/94	Gross beta	32.1	8.9	12	Filtered		LAS
RD-19		Primary	02/15/95	Gross alpha	100	22	13	Filtered		LAS
RD-19		Reanalysis of Primary	02/15/95	Gross alpha	13.3	8.7	11	Filtered		LAS
RD-19		Primary	02/15/95	Gross beta	50.2	9.8	11	Filtered		LAS
RD-19		Reanalysis of Primary	02/15/95	Gross beta	34.6	7	8.5	Filtered		LAS
RD-19		Primary	02/06/96	Gross alpha	36	12	12	Filtered		CEP
RD-19		Reanalysis of Primary	02/06/96	Gross alpha	6.9 U	5	7.3	Filtered		CEP
RD-19		Primary	02/06/96	Gross beta	29.8	7.1	9	Filtered		CEP
RD-19		Reanalysis of Primary	02/06/96	Gross beta	3.6 U	2.8	4.6	Filtered		CEP
RD-19		Primary	02/07/97	Gross alpha	27	10	10	Filtered		LAS
RD-19		Primary	02/07/97	Gross beta	17.3	5.7	8	Filtered		LAS
RD-19		Primary	02/06/98	Gross alpha	25.6	5.7	3.37	Filtered		TN
RD-19		Primary	02/06/98	Gross beta	18.6	2.5	2.95	Filtered		TN
RD-20		Primary	09/05/89	Gross alpha	10	2.3	---	Filtered		BC
RD-20		Primary	09/05/89	Gross alpha	14.4	2.4	---	Unfiltered		BC
RD-20		Primary	09/05/89	Gross beta	16.7	0.7	---	Filtered		BC
RD-20		Primary	09/05/89	Gross beta	34.1	0.8	---	Unfiltered		BC
RD-20		Primary	10/17/89	Gross alpha	13.1	3.3	---	Filtered		UST
RD-20		Primary	10/17/89	Gross beta	17.06	1	---	Filtered		UST
RD-20		Primary	12/07/90	Gross alpha	4.74	2.36	4	Filtered		IT
RD-20		Primary	12/07/90	Gross beta	2.49 U	2.3	4	Filtered		IT
RD-20		Primary	03/05/91	Gross alpha	4.07	2.23	4	Filtered		IT
RD-20		Primary	03/05/91	Gross beta	5.29	1.39	4	Filtered		IT
RD-20		Primary	12/10/91	Gross alpha	4.43	3.96	4	Filtered		IT

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-20		Primary	12/10/91	Gross beta	9.08	3.07	4	Filtered		IT
RD-20		Primary	03/04/92	Gross alpha	4	3	2	Filtered		CEP
RD-20		Primary	03/04/92	Gross beta	5	3	3	Filtered		CEP
RD-20		Primary	03/03/93	Gross alpha	6	5	2	Filtered	High statistics due to large amount of solids.	CEP
RD-20		Primary	03/03/93	Gross beta	10	4	3	Filtered		CEP
RD-20		Primary	02/22/94	Gross alpha	5 U	6.4	11	Filtered		LAS
RD-20		Primary	02/22/94	Gross beta	8.3 U	6.9	11	Filtered		LAS
RD-20		Primary	02/16/95	Gross alpha	35	11	8.6	Filtered		LAS
RD-20		Reanalysis of Primary	02/16/95	Gross alpha	10.1	6	7.1	Filtered		LAS
RD-20		Duplicate	02/16/95	Gross alpha	46	12	8.8	Filtered		LAS
RD-20		Reanalysis of Duplicate	02/16/95	Gross alpha	6.5 U	5.5	7.5	Filtered		LAS
RD-20		Primary	02/16/95	Gross beta	36.3	6.9	8	Filtered		LAS
RD-20		Reanalysis of Primary	02/16/95	Gross beta	9.6	4.1	6	Filtered		LAS
RD-20		Duplicate	02/16/95	Gross beta	35.4	6.7	7.6	Filtered		LAS
RD-20		Reanalysis of Duplicate	02/16/95	Gross beta	10.3 U	6.9	11	Filtered		LAS
RD-20		Primary	02/04/96	Gross alpha	6.5 U	6.9	11	Filtered		LAS
RD-20		Primary	02/04/96	Gross beta	4.7 U	4.2	6.9	Filtered		LAS
RD-20		Primary	02/08/97	Gross alpha	14.4	6.9	7.9	Filtered		LAS
RD-20		Primary	02/08/97	Gross beta	5.8 U	3.9	6.1	Filtered		LAS
RD-20		Primary	02/04/98	Gross alpha	8.04	3.6	3.42	Filtered		TN
RD-20		Primary	02/04/98	Gross beta	8.24	2	2.68	Filtered		TN
RD-21		Primary	09/12/89	Gross alpha	6	2	---	Filtered		BC
RD-21		Primary	09/12/89	Gross alpha	6.5	2.2	---	Unfiltered		BC
RD-21		Primary	09/12/89	Gross beta	-0.5 U	1	---	Filtered		BC
RD-21		Primary	09/12/89	Gross beta	5.5	1.1	---	Unfiltered		BC
RD-21		Primary	10/20/89	Gross alpha	7.7	2.6	---	Filtered		BC
RD-21		Duplicate	10/20/89	Gross alpha	12.3	3	---	Filtered		BC
RD-21		Primary	10/20/89	Gross beta	10.8	0.9	---	Filtered		BC
RD-21		Duplicate	10/20/89	Gross beta	3.1	1	---	Filtered		BC
RD-21		Primary	12/03/90	Gross alpha	2.91 U	2.53	4	Filtered		IT
RD-21		Primary	12/03/90	Gross beta	1.85 U	2.34	4	Filtered		IT
RD-21		Primary	03/08/91	Gross alpha	7.8	4.84	4	Filtered		IT
RD-21		Primary	03/08/91	Gross beta	5.85	2.62	4	Filtered		IT
RD-21		Primary	12/05/91	Gross alpha	7.59	3.74	4	Filtered		IT
RD-21		Primary	12/05/91	Gross beta	6.37	2.11	4	Filtered		IT
RD-21		Primary	03/04/92	Gross alpha	5	2	2	Filtered		CEP
RD-21		Primary	03/04/92	Gross beta	5	4	3	Filtered		CEP
RD-21		Primary	03/06/93	Gross alpha	3	2	2	Filtered		CEP
RD-21		Primary	03/06/93	Gross beta	3 U	---	3	Filtered		CEP
RD-21		Primary	06/22/93	Gross alpha	13	4	2	Filtered		CEP
RD-21		Primary	06/22/93	Gross beta	37	5	3	Filtered		CEP

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-21		Primary	08/06/93	Gross alpha	3	2	2	Filtered	High statistics due to large amount of solids.	CEP
RD-21		Primary	08/06/93	Gross beta	3 U	---	3	Filtered		CEP
RD-21		Primary	11/06/93	Gross alpha	4.1	3	3.9	Filtered		LAS
RD-21		Primary	11/06/93	Gross beta	6.5	3.5	5.4	Filtered		LAS
RD-21		Primary	02/25/94	Gross alpha	7.2	4.5	5.7	Filtered		LAS
RD-21		Primary	02/25/94	Gross beta	6.1	3.5	5.4	Filtered		LAS
RD-21		Primary	08/08/94	Gross alpha	6.8	3.9	4.3	Filtered		LAS
RD-21		Primary	08/08/94	Gross beta	6.6	3.3	5	Filtered		LAS
RD-21		Primary	02/08/95	Gross alpha	8.2	4.8	5.9	Filtered		LAS
RD-21		Primary	02/08/95	Gross beta	9.2	3.7	5.3	Filtered		LAS
RD-21		Primary	08/31/95	Gross alpha	13.7	6.3	6.8	Filtered		LAS
RD-21		Primary	08/31/95	Gross beta	5.5 U	3.9	6.1	Filtered		LAS
RD-21		Primary	02/16/96	Gross alpha	6.8	4.1	5.4	Filtered		LAS
RD-21		Primary	02/16/96	Gross beta	5.1	2.8	4.4	Filtered		LAS
RD-21		Primary	08/18/96	Gross alpha	10.3	5.6	7.1	Filtered		LAS
RD-21		Primary	08/18/96	Gross beta	3.5 U	3.5	5.8	Filtered		LAS
RD-21		Primary	02/06/97	Gross alpha	4.6 U	3.8	5.5	Filtered		LAS
RD-21		Primary	02/06/97	Gross beta	4.5 U	3.1	5	Filtered		LAS
RD-21		Primary	02/09/98	Gross alpha	11.8	3.3	2.49	Filtered		TN
RD-21		Primary	02/09/98	Gross beta	6.79	1.7	2.25	Filtered		TN
RD-21		Primary	02/16/99	Gross alpha	13	4.5	3.73	Filtered		TN
RD-21		Primary	02/16/99	Gross beta	6.58	1.7	2.24	Filtered		TN
RD-21		Primary	03/15/00	Gross alpha	17.2	4.5	3.31	Filtered		TR
RD-21		Primary	03/15/00	Gross beta	6.85	2.2	3	Filtered		TR
RD-21		Primary	10/24/01	Gross alpha	21.45	5.64	2.56	Filtered		DL
RD-21		Primary	10/24/01	Gross beta	3.85	0.96	2.9	Filtered		DL
RD-21		Primary	03/06/02	Gross alpha	5.04	2.93	3.64	Filtered		DL
RD-21		Primary	03/06/02	Gross beta	3.07	1.2	2.3	Filtered		DL
RD-21	Z2	Primary	02/25/03	Gross alpha	2.78 U	2.5	3.04	Filtered		ES
RD-21	Z2	Primary	02/25/03	Gross beta	7.72	3.6	5.25	Filtered		ES
RD-21	Z2	Primary	11/04/04	Gross alpha	0.726 U	1.7	2.8	Filtered		ES
RD-21	Z2	Primary	11/04/04	Gross beta	5.09	2.8	3.87	Filtered		ES
RD-21	Z2	Primary	02/16/05	Gross alpha	4.89	3.3	3.83	Filtered		ES
RD-21	Z2	Primary	02/16/05	Gross beta	4.19 U	3.2	4.86	Filtered		ES
RD-21	Z2	Primary	09/01/05	Gross alpha	4.37	1.7	1.5	Filtered		ES
RD-21	Z2	Primary	09/01/05	Gross beta	6.7	2.2	2.45	Filtered		ES
RD-21	Z2	Primary	02/16/06	Gross alpha	-0.928 U	4.1	7.56	Filtered		ES
RD-21	Z2	Primary	02/16/06	Gross beta	6.03	3.9	5.73	Filtered		ES
RD-21	Z2	Primary	08/16/06	Gross alpha	5.86	2.3	2.18	Filtered		ES
RD-21	Z2	Primary	08/16/06	Gross beta	6.86	2.2	2.41	Filtered		ES
RD-21	Z2	Primary	05/21/07	Gross alpha	13.2	7.8	9.72	Filtered		ES
RD-21	Z2	Primary	05/21/07	Gross beta	5.84	3.2	4.69	Filtered		ES
RD-21	Z2	Primary	08/09/07	Gross alpha	13.5	4.7	4.52	Filtered		ES
RD-21	Z2	Primary	08/09/07	Gross beta	6.41	3.2	4.76	Filtered		ES
RD-21	Z2	Primary	02/05/08	Gross alpha	6.45	2.1	1.61	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-21	Z2	Primary	02/05/08	Gross beta	4.99	1.6	1.95	Filtered		ES
RD-21	Z3	Primary	08/06/08	Gross alpha	1.82 U	1.6	2.21	Filtered		ES
RD-21	Z3	Primary	08/06/08	Gross beta	10.3	1.9	1.93	Filtered		ES
RD-22		Primary	09/13/89	Gross alpha	7.8	1.7	---	Filtered		BC
RD-22		Primary	09/13/89	Gross alpha	7.8	2.8	---	UnFiltered		BC
RD-22		Primary	09/13/89	Gross beta	35	0.8	---	Filtered		BC
RD-22		Primary	09/13/89	Gross beta	5.5	1.3	---	Unfiltered		BC
RD-22		Primary	10/19/89	Gross alpha	-1 U	2.1	---	Filtered		UST
RD-22		Primary	10/19/89	Gross beta	9	0.8	---	Filtered		UST
RD-22		Primary	03/27/90	Gross alpha	2.92	2.85	---	Filtered		UST
RD-22		Primary	03/27/90	Gross beta	6.02	2.75	---	Filtered		UST
RD-22		Primary	07/01/90	Gross alpha	3.27	3.12	---	Filtered		UST
RD-22		Primary	07/01/90	Gross beta	5.01	2.63	---	Filtered		UST
RD-22		Primary	09/15/90	Gross alpha	0.539 U	1.87	---	Filtered		UST
RD-22		Primary	09/15/90	Gross beta	7.38	2.88	---	Filtered		UST
RD-22		Primary	12/04/90	Gross alpha	5.87	4.09	4	Filtered		IT
RD-22		Duplicate	12/04/90	Gross alpha	3.57 U	3.91	4	Filtered		IT
RD-22		Primary	12/04/90	Gross beta	6.14	2.78	4	Filtered		IT
RD-22		Duplicate	12/04/90	Gross beta	3.71 U	2.57	4	Filtered		IT
RD-22		Primary	03/11/91	Gross alpha	11.4	7.46	4	Filtered		IT
RD-22		Primary	03/11/91	Gross beta	3.64 U	2.39	4	Filtered		IT
RD-22		Primary	06/05/91	Gross alpha	2.71 U	2.6	4	Filtered		IT
RD-22		Primary	06/05/91	Gross beta	7.64	2.85	4	Filtered		IT
RD-22		Primary	09/07/91	Gross alpha	1.48 U	0.898	4	Filtered		IT
RD-22		Primary	09/07/91	Gross beta	4.71	1.34	4	Filtered		IT
RD-22		Primary	12/06/91	Gross alpha	3.59	3.06	1	Filtered		IT
RD-22		Primary	12/06/91	Gross beta	5.17	2.36	1	Filtered		IT
RD-22		Primary	06/05/92	Gross alpha	3	2	2	Filtered		CEP
RD-22		Primary	06/05/92	Gross beta	-3 U	3	3	Filtered		CEP
RD-22		Primary	09/10/92	Gross alpha	3	2	2	Filtered		CEP
RD-22		Primary	09/10/92	Gross beta	15	4	3	Filtered		CEP
RD-22		Primary	12/04/92	Gross alpha	3	2	2	Filtered		CEP
RD-22		Primary	12/04/92	Gross beta	14	3	3	Filtered		CEP
RD-22		Primary	03/20/93	Gross alpha	2 U	---	2	Filtered		CEP
RD-22		Primary	03/20/93	Gross beta	10	3	3	Filtered		CEP
RD-22		Primary	06/22/93	Gross alpha	10	4	2	Filtered		CEP
RD-22		Primary	06/22/93	Gross beta	36	5	3	Filtered		CEP
RD-22		Primary	08/05/93	Gross alpha	2 U	---	2	Filtered		CEP
RD-22		Primary	08/05/93	Gross beta	3 U	---	3	Filtered		CEP
RD-22		Primary	11/21/93	Gross alpha	3.5 U	3.8	5.9	Filtered		LAS
RD-22		Primary	11/21/93	Gross beta	8.9	4.2	6.5	Filtered		LAS
RD-22		Primary	02/24/94	Gross alpha	4.6 U	5.1	8.1	Filtered		LAS
RD-22		Primary	02/24/94	Gross beta	8.6	5.4	8.5	Filtered		LAS
RD-22		Primary	08/09/94	Gross alpha	2.3 U	3.3	5.5	Filtered		LAS
RD-22		Primary	08/09/94	Gross beta	7.7	3.6	5.6	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-22		Primary	02/17/95	Gross alpha	29.6	8.4	6.3	Filtered		LAS
RD-22		Reanalysis of Primary	02/17/95	Gross alpha	0.2 U	2.6	5.8	Filtered		LAS
RD-22		Primary	02/17/95	Gross beta	26.6	4.8	5.4	Filtered		LAS
RD-22		Reanalysis of Primary	02/17/95	Gross beta	4.5 U	3.4	5.4	Filtered		LAS
RD-22		Primary	08/29/95	Gross alpha	3.1 U	4.2	7.1	Filtered		LAS
RD-22		Primary	08/29/95	Gross beta	8.1	4.5	7	Filtered		LAS
RD-22		Primary	02/16/96	Gross alpha	2.2 U	3	5.1	Filtered		LAS
RD-22		Primary	02/16/96	Gross beta	2.6 U	2.1	3.3	Filtered		LAS
RD-22		Primary	08/18/96	Gross alpha	-0.3 U	4.3	9	Filtered		LAS
RD-22		Primary	08/18/96	Gross beta	8.9	4.9	7.7	Filtered		LAS
RD-22		Primary	02/26/97	Gross alpha	3.9 U	4.2	6.6	Filtered		LAS
RD-22		Primary	02/26/97	Gross beta	7.5	3.8	5.8	Filtered		LAS
RD-22		Primary	05/28/98	Gross alpha	4.18	2.8	3.6	Filtered		TN
RD-22		Primary	05/28/98	Gross beta	7.19	1.7	2.28	Filtered		TN
RD-22		Primary	02/17/99	Gross alpha	0.868 U	2	3.5	Filtered		TN
RD-22		Primary	02/17/99	Gross beta	4.48	1.7	2.56	Filtered		TN
RD-22		Primary	02/06/00	Gross alpha	5.12	3.3	4.43	Filtered		TR
RD-22		Primary	02/06/00	Gross beta	8.1	2.8	3.93	Filtered		TR
RD-22		Primary	02/16/01	Gross alpha	3.64	3.3	2.9	Filtered		ES
RD-22		Primary	02/16/01	Gross beta	8.59	1.7	2.06	Filtered		ES
RD-22		Primary	02/20/02	Gross alpha	9.21	3.56	2.16	Filtered		DL
RD-22		Primary	02/20/02	Gross beta	4.79	9.21	1.32	Filtered		DL
RD-22	Z2	Primary	02/24/03	Gross alpha	2.97 J	1.4	1.55	Filtered		ES
RD-22	Z2	Primary	02/24/03	Gross beta	9.22	1.9	2.55	Filtered		ES
RD-22	Z2	Primary	11/12/04	Gross alpha	3.41	2.4	2.95	Filtered		ES
RD-22	Z2	Primary	11/12/04	Gross beta	6.82	3.1	4.22	Filtered		ES
RD-22	Z2	Primary	02/17/05	Gross alpha	3.55 U	2.9	3.76	Filtered		ES
RD-22	Z2	Primary	02/17/05	Gross beta	-2.82 U	4.6	8.01	Filtered		ES
RD-22	Z2	Primary	08/31/05	Gross alpha	5.18	2.1	2.09	Filtered		ES
RD-22	Z2	Primary	08/31/05	Gross beta	7.87	2.5	2.83	Filtered		ES
RD-22	Z2	Primary	02/15/06	Gross alpha	-2.11 U	4	7.01	Filtered		ES
RD-22	Z2	Primary	02/15/06	Gross beta	8.51	3.6	4.7	Filtered		ES
RD-22	Z2	Primary	08/16/06	Gross alpha	3.28	1.8	2.09	Filtered		ES
RD-22	Z2	Primary	08/16/06	Gross beta	6.19	2.4	3.26	Filtered		ES
RD-22	Z2	Primary	02/07/07	Gross alpha	1.58 U	2	3.13	Filtered		ES
RD-22	Z2	Primary	02/07/07	Gross beta	7.04	2.5	3.12	Filtered		ES
RD-22	Z2	Primary	08/09/07	Gross alpha	5 U	3.8	5.34	Filtered		ES
RD-22	Z2	Primary	08/09/07	Gross beta	5.99 U	5.8	9.11	Filtered		ES
RD-22	Z2	Primary	02/05/08	Gross alpha	4.22	2.6	3.55	Filtered		ES
RD-22	Z2	Primary	02/05/08	Gross beta	5.97	2.2	2.82	Filtered		ES
RD-22	Z2	Primary	08/06/08	Gross alpha	3.76	2.5	3.1	Filtered		ES
RD-22	Z2	Primary	08/06/08	Gross beta	5.54	3.4	5.15	Filtered		ES
RD-23		Primary	09/13/89	Gross alpha	8.2	2.3	---	Filtered		BC
RD-23		Primary	09/13/89	Gross alpha	8.6	2.4	---	Unfiltered		BC

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-23		Primary	09/13/89	Gross beta	-0.5 U	1.2	---	Filtered		BC
RD-23		Primary	09/13/89	Gross beta	7.4	1.2	---	Unfiltered		BC
RD-23		Primary	10/20/89	Gross alpha	9.4	3	---	Filtered		BC
RD-23		Primary	10/20/89	Gross beta	6.5	0.9	---	Filtered		BC
RD-23		Primary	06/29/90	Gross alpha	0.58 U	2.12	---	Filtered		UST
RD-23		Primary	06/29/90	Gross beta	1.73 U	2.18	---	Filtered		UST
RD-23		Primary	12/05/90	Gross alpha	1.28 U	1.52	4	Filtered		IT
RD-23		Primary	12/05/90	Gross beta	2.27 U	2.26	4	Filtered		IT
RD-23		Primary	03/11/91	Gross alpha	3.3 U	1.94	4	Filtered		IT
RD-23		Duplicate	03/11/91	Gross alpha	1.61 U	1.34	4	Filtered		IT
RD-23		Primary	03/11/91	Gross beta	0.626 U	1.89	4	Filtered		IT
RD-23		Duplicate	03/11/91	Gross beta	3.98 U	2.41	4	Filtered		IT
RD-23		Primary	12/05/91	Gross alpha	3.8 U	2.08	4	Filtered		IT
RD-23		Primary	12/05/91	Gross beta	5.5	1.5	4	Filtered		IT
RD-23		Primary	03/04/92	Gross alpha	2 U	---	2	Filtered		CEP
RD-23		Primary	03/04/92	Gross beta	3 U	---	3	Filtered		CEP
RD-23		Primary	03/21/93	Gross alpha	2 U	---	2	Filtered		CEP
RD-23		Primary	03/21/93	Gross beta	9	2	3	Filtered		CEP
RD-23		Primary	06/23/93	Gross alpha	2 U	---	2	Filtered		CEP
RD-23		Primary	06/23/93	Gross beta	6	4	3	Filtered		CEP
RD-23		Primary	08/06/93	Gross alpha	2 U	---	2	Filtered		CEP
RD-23		Primary	08/06/93	Gross beta	3 U	---	3	Filtered		CEP
RD-23		Primary	11/06/93	Gross alpha	2.9 U	2.5	3.8	Filtered		LAS
RD-23		Primary	11/06/93	Gross beta	3.3 U	2.4	3.9	Filtered		LAS
RD-23		Primary	02/25/94	Gross alpha	3.1 U	2.8	4	Filtered		LAS
RD-23		Primary	02/25/94	Gross beta	3.9 U	2.8	4.6	Filtered		LAS
RD-23		Primary	08/08/94	Gross alpha	2.5 U	2.7	4.3	Filtered		LAS
RD-23		Primary	08/08/94	Gross beta	5.7	2.7	4	Filtered		LAS
RD-23		Primary	11/22/94	Gross alpha	4.4	2.8	---	Filtered		LAS
RD-23		Primary	11/22/94	Gross beta	4.5	2	---	Filtered		LAS
RD-23		Primary	02/05/95	Gross alpha	3.1 U	3.1	4.7	Filtered		LAS
RD-23		Primary	02/05/95	Gross beta	8.4	3.3	4.8	Filtered		LAS
RD-23		Primary	08/03/95	Gross alpha	4.1 U	3.2	4.4	Filtered		LAS
RD-23		Primary	08/03/95	Gross beta	7.2	3.1	4.7	Filtered		LAS
RD-23		Primary	02/16/96	Gross alpha	3.6 U	2.7	3.8	Filtered		LAS
RD-23		Primary	02/16/96	Gross beta	4	1.8	2.6	Filtered		LAS
RD-23		Primary	08/18/96	Gross alpha	2.9 U	2.8	4.4	Filtered		LAS
RD-23		Primary	08/18/96	Gross beta	3.9 U	2.5	4	Filtered		LAS
RD-23		Primary	02/27/97	Gross alpha	6.4	3.1	3.4	Filtered		LAS
RD-23		Primary	02/27/97	Gross beta	3.8	1.9	2.9	Filtered		LAS
RD-23		Primary	02/07/98	Gross alpha	4.11	1.7	1.75	Filtered		TN
RD-23		Primary	02/07/98	Gross beta	4.93	1.4	1.92	Filtered		TN
RD-23		Primary	02/08/99	Gross alpha	4.69	2.1	2.24	Filtered		TN
RD-23		Primary	02/08/99	Gross beta	4.64	1.5	2.02	Filtered		TN
RD-23		Primary	02/05/00	Gross alpha	4.69	2.3	2.26	Filtered		TR

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-23		Primary	02/05/00	Gross beta	5.26	2.6	3.85	Filtered		TR
RD-23		Primary	10/25/01	Gross alpha	4.89	2.43	2.09	Filtered		DL
RD-23		Primary	10/25/01	Gross beta	2.42	1.12	1.86	Filtered		DL
RD-23		Primary	03/01/02	Gross alpha	3.05	1.94	2.08	Filtered		DL
RD-23		Primary	03/01/02	Gross beta	3.66	1.29	2.38	Filtered		DL
RD-23	Z1	Primary	02/26/03	Gross alpha	4.42	1.3	0.96	Filtered		ES
RD-23	Z1	Primary	02/26/03	Gross beta	6.18	1.8	2.61	Filtered		ES
RD-23	Z2	Primary	11/03/04	Gross alpha	1.47 U	1.6	1.98	Filtered		ES
RD-23	Z2	Primary	11/03/04	Gross beta	5.19	2.3	2.85	Filtered		ES
RD-23	Z2	Primary	02/14/05	Gross alpha	2.82 J	1.8	2.1	Filtered		ES
RD-23	Z2	Primary	02/14/05	Gross beta	4.2	2	2.76	Filtered		ES
RD-23	Z3	Primary	09/12/05	Gross alpha	3.61	1.2	0.583	Filtered		ES
RD-23	Z3	Primary	09/12/05	Gross beta	2.05 J	1.2	1.72	Filtered		ES
RD-23	Z3	Primary	02/17/06	Gross alpha	1.8 U	2.1	3.37	Filtered		ES
RD-23	Z3	Primary	02/17/06	Gross beta	4.91	1.7	1.92	Filtered		ES
RD-23	Z3	Primary	08/17/06	Gross alpha	0.793 U	1.5	2.12	Filtered		ES
RD-23	Z3	Primary	08/17/06	Gross beta	3.2 J	1.4	2	Filtered		ES
RD-23	Z3	Primary	02/07/07	Gross alpha	1.7 U	1.9	2.76	Filtered		ES
RD-23	Z3	Primary	02/07/07	Gross beta	3.17 U	2.3	3.43	Filtered		ES
RD-23	Z3	Primary	08/09/07	Gross alpha	2.97 U	2.4	3.41	Filtered		ES
RD-23	Z3	Primary	08/09/07	Gross beta	4.21	1.9	2.77	Filtered		ES
RD-23	Z3	Primary	02/06/08	Gross alpha	2.44 J	1.5	1.81	Filtered		ES
RD-23	Z3	Primary	02/06/08	Gross beta	2.58 J	1.3	1.84	Filtered		ES
RD-23	Z2	Primary	08/07/08	Gross alpha	3.5	1.7	1.61	Filtered		ES
RD-23	Z2	Primary	08/07/08	Gross beta	17.1	2.3	1.72	Filtered		ES
RD-24		Primary	09/12/89	Gross alpha	4.3	1	---	Filtered		UST
RD-24		Primary	09/12/89	Gross alpha	8.6	1.6	---	Unfiltered		UST
RD-24		Split	09/12/89	Gross alpha	2 U	3	---	Filtered		TMA
RD-24		Split	09/12/89	Gross alpha	3	2	---	Unfiltered		TMA
RD-24		Primary	09/12/89	Gross beta	7.4	0.2	---	Filtered		UST
RD-24		Primary	09/12/89	Gross beta	14	0.6	---	Unfiltered		UST
RD-24		Split	09/12/89	Gross beta	7	2	---	Filtered		TMA
RD-24		Split	09/12/89	Gross beta	6	2	---	Unfiltered		TMA
RD-24		Primary	10/17/89	Gross alpha	2.4	2.3	---	Filtered		UST
RD-24		Primary	10/17/89	Gross beta	7.3	0.5	---	Filtered		UST
RD-24		Primary	12/05/90	Gross alpha	6.15	3.65	4	Filtered		IT
RD-24		Primary	12/05/90	Gross beta	6.12	2.81	4	Filtered		IT
RD-24		Primary	03/06/91	Gross alpha	5.46	2.99	4	Filtered		IT
RD-24		Primary	03/06/91	Gross beta	3.68 U	1.86	4	Filtered		IT
RD-24		Primary	12/11/91	Gross alpha	6.33	3.5	4	Filtered		IT
RD-24		Primary	12/11/91	Gross beta	5.21	1.84	4	Filtered		IT
RD-24		Primary	03/06/92	Gross alpha	3	2	2	Filtered		CEP
RD-24		Primary	03/06/92	Gross beta	3 U	---	3	Filtered		CEP
RD-24		Primary	03/07/93	Gross alpha	3	2	2	Filtered	High statistics due to large amount of solids.	CEP
RD-24		Primary	03/07/93	Gross beta	7	4	3	Filtered		CEP

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-24		Primary	02/23/94	Gross alpha	7.6	4.4	5.2	Filtered		LAS
RD-24		Primary	02/23/94	Gross beta	7	3.3	5	Filtered		LAS
RD-24		Primary	08/08/94	Gross alpha	3 U	2.7	3.9	Filtered		LAS
RD-24		Primary	08/08/94	Gross beta	6.9	2.7	4	Filtered		LAS
RD-24		Primary	02/16/95	Gross alpha	16.5	5.9	5.1	Filtered		LAS
RD-24		Reanalysis of Primary	02/16/95	Gross alpha	10	4.4	4.4	Filtered		LAS
RD-24		Primary	02/16/95	Gross beta	25.2	4.4	4.9	Filtered		LAS
RD-24		Reanalysis of Primary	02/16/95	Gross beta	13	2.8	3.5	Filtered		LAS
RD-24		Primary	08/10/95	Gross alpha	3.4 U	2.8	3.9	Filtered		LAS
RD-24		Primary	08/10/95	Gross beta	5.9	2.5	3.7	Filtered		LAS
RD-24		Primary	02/07/96	Gross alpha	9	5.6	8	Filtered		LAS
RD-24		Primary	02/07/96	Gross beta	2.9 U	3.5	5.7	Filtered		LAS
RD-24		Primary	08/07/96	Gross alpha	3.5 U	5	8.5	Filtered		LAS
RD-24		Primary	08/07/96	Gross beta	6.8	3.9	6	Filtered		LAS
RD-24		Primary	02/07/97	Gross alpha	4.7 U	3.5	4.9	Filtered		LAS
RD-24		Primary	02/07/97	Gross beta	6.4	2.9	4.3	Filtered		LAS
RD-24		Primary	08/04/97	Gross alpha	3.7 U	3.2	4.4	Filtered		LAS
RD-24		Primary	08/04/97	Gross beta	5.9	3	4.7	Filtered		LAS
RD-24		Primary	02/18/98	Gross alpha	4.42	2	1.9	Filtered		TN
RD-24		Primary	02/18/98	Gross beta	8.05	1.7	2.12	Filtered		TN
RD-24		Primary	05/05/98	Gross alpha	3.63 U	2.8	3.73	Filtered		TN
RD-24		Primary	05/05/98	Gross beta	7.06	2.1	2.94	Filtered		TN
RD-24		Primary	08/04/98	Gross alpha	12.2 U	9.5	12.4	Filtered		TN
RD-24		Primary	08/04/98	Gross beta	11 U	18	28.7	Filtered		TN
RD-24		Primary	02/02/99	Gross alpha	4.53	2.3	2.28	Filtered		TN
RD-24		Primary	02/02/99	Gross beta	7.1	2.6	3.77	Filtered		TN
RD-24		Primary	08/11/99	Gross alpha	3.18	2	2.44	Filtered		TN
RD-24		Primary	08/11/99	Gross beta	7.07	1.8	7.07	Filtered		TN
RD-24		Primary	02/03/00	Gross alpha	4.87	1.7	1.71	Filtered		TR
RD-24		Primary	02/03/00	Gross beta	13.3	2	2.65	Filtered		TR
RD-24		Primary	08/04/00	Gross alpha	4.16	2	1.78	Filtered		TR
RD-24		Primary	08/04/00	Gross beta	6.26	1.9	2.63	Filtered		TR
RD-24		Primary	02/06/01	Gross alpha	4.84	3	3.87	Filtered		ES
RD-24		Primary	02/06/01	Gross beta	7.86	2.1	2.92	Filtered		ES
RD-24		Primary	10/25/01	Gross alpha	14.45	4.88	2.74	Filtered		DL
RD-24		Primary	10/25/01	Gross beta	5.14	1.28	2.95	Filtered		DL
RD-24		Primary	02/25/02	Gross alpha	5.44	12.7	3.22	Filtered		DL
RD-24		Primary	02/25/02	Gross beta	3.9	11.26	2.6	Filtered		DL
RD-24		Primary	11/06/02	Gross alpha	8.93	3.3	3.1	Filtered		ES
RD-24		Primary	11/06/02	Gross beta	8.16	2.1	2.91	Filtered		ES
RD-24		Primary	02/12/03	Gross alpha	2.83 J	1.4	1.51	Filtered		ES
RD-24		Primary	02/12/03	Gross beta	6.67	1.3	1.8	Filtered		ES
RD-24		Split	11/14/03	Gross alpha	11.6	4.56	3.11	Filtered		STL
RD-24		Split	11/14/03	Gross beta	13.3	4.16	5.91	Filtered		STL

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-24		Primary	11/14/03	Gross alpha	5.06	3.4	2.92	Filtered		ES
RD-24		Primary	11/14/03	Gross beta	9.29	3.4	3.66	Filtered		ES
RD-24		Primary	02/23/04	Gross alpha	3.25	1.9	1.94	Filtered		ES
RD-24		Primary	02/23/04	Gross beta	4.86	2.6	3.6	Filtered		ES
RD-24		Primary	08/26/04	Gross alpha	1.7 U	1.9	2.41	Filtered		ES
RD-24		Primary	08/26/04	Gross beta	8.17	2.8	3.09	Filtered		ES
RD-24		Primary	02/24/05	Gross alpha	2.52 J	1.9	2.13	Filtered		ES
RD-24		Primary	02/24/05	Gross beta	7.06	2.4	2.7	Filtered		ES
RD-24		Primary	09/06/05	Gross alpha	4.06	1.6	1.36	Filtered		ES
RD-24		Primary	09/06/05	Gross beta	7.28	2.3	2.7	Filtered		ES
RD-24		Primary	02/15/06	Gross alpha	0.624 U	4.3	7.52	Filtered		ES
RD-24		Primary	02/15/06	Gross beta	5.03 U	3.7	5.73	Filtered		ES
RD-24		Primary	08/10/06	Gross alpha	2.71 U	2.1	3.02	Filtered		ES
RD-24		Primary	08/10/06	Gross beta	7.67	2.8	3.93	Filtered		ES
RD-24		Primary	05/24/07	Gross alpha	5.21	2.6	3.01	Filtered		ES
RD-24		Primary	05/24/07	Gross beta	8.68	2.8	3.36	Filtered		ES
RD-24		Primary	08/08/07	Gross alpha	8.54	3.7	4.03	Filtered		ES
RD-24		Primary	08/08/07	Gross beta	6.2	2.3	2.83	Filtered		ES
RD-24		Primary	02/13/08	Gross alpha	2.52 J	1.2	1.2	Filtered		ES
RD-24		Primary	02/13/08	Gross beta	4.85	0.97	1.11	Filtered		ES
RD-25		Primary	09/12/89	Gross alpha	8.9	1.7	---	Filtered		UST
RD-25		Primary	09/12/89	Gross alpha	4.2	1.4	---	Unfiltered		UST
RD-25		Split	09/12/89	Gross alpha	2 U	3	---	Filtered		TMA
RD-25		Split	09/12/89	Gross alpha	0 U	3	---	Filtered		TMA
RD-25		Split	09/12/89	Gross alpha	0 U	4	---	Unfiltered		TMA
RD-25		Split	09/12/89	Gross alpha	0 U	3	---	Unfiltered		TMA
RD-25		Primary	09/12/89	Gross beta	56.1	0.5	---	Filtered		UST
RD-25		Primary	09/12/89	Gross beta	11.4	0.4	---	Unfiltered		UST
RD-25		Split	09/12/89	Gross beta	3 U	4	---	Filtered		TMA
RD-25		Split	09/12/89	Gross beta	3	2	4	Filtered		TMA
RD-25		Split	09/12/89	Gross beta	5	5	---	Unfiltered		TMA
RD-25		Split	09/12/89	Gross beta	6	2	---	Unfiltered		TMA
RD-25		Primary	09/19/89	Gross alpha	10.4	2.4	---	Filtered		BC
RD-25		Primary	09/19/89	Gross alpha	3.4	2.3	---	Unfiltered		BC
RD-25		Primary	09/19/89	Gross beta	3.7	1.2	---	Filtered		BC
RD-25		Primary	09/19/89	Gross beta	1.6	1.1	---	Unfiltered		BC
RD-25		Primary	10/20/89	Gross alpha	6	2.3	---	Filtered		BC
RD-25		Primary	10/20/89	Gross beta	9.2	0.7	---	Filtered		BC
RD-25		Primary	12/05/90	Gross alpha	3.84 U	3.17	4	Filtered		IT
RD-25		Primary	12/05/90	Gross beta	6.77	2.84	4	Filtered		IT
RD-25		Primary	03/06/91	Gross alpha	2.16 U	10.3	4	Filtered		IT
RD-25		Primary	03/06/91	Gross beta	3.28 U	1.17	4	Filtered		IT
RD-25		Primary	12/10/91	Gross alpha	8.29	4.23	4	Filtered		IT
RD-25		Primary	12/10/91	Gross beta	5.87	2.18	4	Filtered		IT
RD-25		Primary	03/06/92	Gross alpha	3	2	2	Filtered		CEP

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-25		Primary	03/06/92	Gross beta	3 U	---	3	Filtered		CEP
RD-25		Primary	03/17/93	Gross alpha	7	3	2	Filtered		CEP
RD-25		Primary	03/17/93	Gross beta	4	3	3	Filtered		CEP
RD-25		Primary	02/28/94	Gross alpha	9.8	5.7	6.7	Filtered		LAS
RD-25		Primary	02/28/94	Gross beta	5.6 U	3.8	6	Filtered		LAS
RD-25		Primary	08/17/94	Gross alpha	10.1	5.2	5.7	Filtered		LAS
RD-25		Primary	08/17/94	Gross beta	7.3	4.4	6.8	Filtered		LAS
RD-25		Primary	02/09/95	Gross alpha	46	11	6.4	Filtered		LAS
RD-25		Reanalysis of Primary	02/09/95	Gross alpha	9.7	5.3	6.4	Filtered		LAS
RD-25		Primary	02/09/95	Gross beta	41.7	6.4	6.5	Filtered		LAS
RD-25		Reanalysis of Primary	02/09/95	Gross beta	13	4.4	6.3	Filtered		LAS
RD-25		Primary	08/18/95	Gross alpha	9	5.1	6.3	Filtered		LAS
RD-25		Primary	08/18/95	Gross beta	8.5	3.6	5.4	Filtered		LAS
RD-25		Primary	02/06/96	Gross alpha	5.7	3.4	4.5	Filtered		LAS
RD-25		Primary	02/06/96	Gross beta	3.8	2	3.1	Filtered		LAS
RD-25		Primary	08/20/96	Gross alpha	11.3	5.6	6.5	Filtered		LAS
RD-25		Primary	08/20/96	Gross beta	9.6	3.9	5.8	Filtered		LAS
RD-25		Primary	02/07/97	Gross alpha	4.9 U	3.7	5.1	Filtered		LAS
RD-25		Primary	02/07/97	Gross beta	6	3	4.5	Filtered		LAS
RD-25		Primary	08/21/97	Gross alpha	12.1	5.9	6.8	Filtered		LAS
RD-25		Primary	08/21/97	Gross beta	7.6	4.1	6.3	Filtered		LAS
RD-25		Primary	02/05/98	Gross alpha	12.2	3.8	2.7	Filtered		TN
RD-25		Primary	02/05/98	Gross beta	7.55	2.1	2.9	Filtered		TN
RD-25		Primary	08/18/98	Gross alpha	3.13	1.2	1.21	Filtered		TN
RD-25		Primary	08/18/98	Gross beta	6.01	1.5	1.93	Filtered		TN
RD-25		Primary	02/16/99	Gross alpha	18.3	5.2	3.55	Filtered		TN
RD-25		Primary	02/16/99	Gross beta	9.37	2.1	2.81	Filtered		TN
RD-25		Primary	08/19/99	Gross alpha	2.96	1.7	1.89	Filtered		TN
RD-25		Primary	08/19/99	Gross beta	5.74	1.7	2.33	Filtered		TN
RD-25		Primary	02/16/00	Gross alpha	5.66	3.1	3.51	Filtered		TR
RD-25		Primary	02/16/00	Gross beta	3.64 U	4.3	7.04	Filtered		TR
RD-25		Primary	08/09/00	Gross alpha	0.815 U	1.5	2.3	Filtered		TR
RD-25		Primary	08/09/00	Gross beta	5.33	1.7	2.24	Filtered		TR
RD-25		Primary	02/07/01	Gross alpha	4.6	2.6	2.83	Filtered		ES
RD-25		Primary	02/07/01	Gross beta	12.5	2.2	2.78	Filtered		ES
RD-25		Primary	10/25/01	Gross alpha	12.22	4.97	3.14	Filtered		DL
RD-25		Primary	10/25/01	Gross beta	6.17	1.49	3.14	Filtered		DL
RD-25		Primary	03/07/02	Gross alpha	6	3.25	4.4	Filtered		DL
RD-25		Primary	03/07/02	Gross beta	4.53	1.37	2.74	Filtered		DL
RD-25		Primary	11/06/02	Gross alpha	9.9	3.6	3.65	Filtered		ES
RD-25		Primary	11/06/02	Gross beta	7.83	1.8	2.43	Filtered		ES
RD-25		Primary	02/24/03	Gross alpha	3.92	1.4	1.39	Filtered		ES
RD-25		Primary	02/24/03	Gross beta	9.12	1.9	2.69	Filtered		ES
RD-25		Primary	11/13/03	Gross alpha	7.21	4.2	3.51	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-25		Primary	11/13/03	Gross beta	7.19	2.6	2.92	Filtered		ES
RD-25		Primary	02/23/04	Gross alpha	4.78	3.3	4.21	Filtered		ES
RD-25		Primary	02/23/04	Gross beta	9.34	4.1	5.32	Filtered		ES
RD-25		Split	02/23/04	Gross alpha	5.81	2.88	2.11	Filtered		STL
RD-25		Split	02/23/04	Gross beta	8.24	2.53	3.75	Filtered		STL
RD-26		Primary	09/26/89	Gross alpha	7.1	1.5	---	Filtered		BC
RD-26		Primary	09/26/89	Gross alpha	11.8	1.9	---	Unfiltered		BC
RD-26		Primary	09/26/89	Gross beta	9.2	0.6	---	Filtered		BC
RD-26		Primary	09/26/89	Gross beta	10.8	0.7	---	Unfiltered		BC
RD-26		Primary	10/20/89	Gross alpha	8.9	2.9	---	Filtered		BC
RD-26		Primary	10/20/89	Gross beta	11.9	0.8	---	Filtered		BC
RD-26		Primary	12/04/90	Gross alpha	7.2	4.33	4	Filtered		IT
RD-26		Primary	12/04/90	Gross beta	2.9 U	2.39	4	Filtered		IT
RD-26		Primary	03/07/91	Gross alpha	12.9	4.75	4	Filtered		IT
RD-26		Primary	03/07/91	Gross beta	4.63	2.54	4	Filtered		IT
RD-26		Primary	03/11/92	Gross alpha	2 U	---	2	Filtered		CEP
RD-26		Primary	03/11/92	Gross beta	3 U	---	3	Filtered		CEP
RD-27		Primary	09/21/89	Gross alpha	13.7	2.4	---	Filtered		BC
RD-27		Primary	09/21/89	Gross alpha	21	2.8	---	Unfiltered		BC
RD-27		Primary	09/21/89	Gross beta	5.7	1.3	---	Filtered		BC
RD-27		Primary	09/21/89	Gross beta	13.1	1.4	---	Unfiltered		BC
RD-27		Primary	10/19/89	Gross alpha	10.3	2.8	---	Filtered		BC
RD-27		Primary	10/19/89	Gross beta	9.6	0.7	---	Filtered		BC
RD-27		Primary	12/04/90	Gross alpha	6.79	3.45	4	Filtered		IT
RD-27		Primary	12/04/90	Gross beta	3.39 U	2.43	4	Filtered		IT
RD-27		Primary	03/07/91	Gross alpha	15.2	10.3	4	Filtered		IT
RD-27		Primary	03/07/91	Gross beta	7.91	2.82	4	Filtered		IT
RD-27		Primary	06/08/91	Gross alpha	5.75	2.66	4	Filtered		IT
RD-27		Duplicate	06/08/91	Gross alpha	4.87	2.24	4	Filtered		IT
RD-27		Primary	06/08/91	Gross beta	2.53 U	1.18	4	Filtered		IT
RD-27		Duplicate	06/08/91	Gross beta	3.41 U	2.34	4	Filtered		IT
RD-27		Primary	12/06/91	Gross alpha	5.65	2.67	1	Filtered		IT
RD-27		Primary	12/06/91	Gross beta	9.7	1.94	1	Filtered		IT
RD-27		Primary	03/09/92	Gross alpha	2 U	---	2	Filtered		CEP
RD-27		Primary	03/09/92	Gross beta	3 U	---	3	Filtered		CEP
RD-27		Primary	03/08/93	Gross alpha	5	3	2	Filtered		CEP
RD-27		Primary	03/08/93	Gross beta	11	4	3	Filtered		CEP
RD-27		Primary	02/28/94	Gross alpha	5.8	3	3.5	Filtered		LAS
RD-27		Primary	02/28/94	Gross beta	8.2	2.6	3.7	Filtered		LAS
RD-27		Primary	08/18/94	Gross alpha	3.6 U	3	4.4	Filtered		LAS
RD-27		Primary	08/18/94	Gross beta	9	2.9	4	Filtered		LAS
RD-27		Primary	02/17/95	Gross alpha	23.7	5.7	4	Filtered		LAS
RD-27		Reanalysis of Primary	02/17/95	Gross alpha	3.8	2.6	3.3	Filtered		LAS
RD-27		Primary	02/17/95	Gross beta	21.2	3	2.9	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-27		Reanalysis of Primary	02/17/95	Gross beta	9.5	2.5	3.3	Filtered		LAS
RD-27		Primary	08/18/95	Gross alpha	5.2	2.9	3.7	Filtered		LAS
RD-27		Primary	08/18/95	Gross beta	6.4	2.2	3.1	Filtered		LAS
RD-27		Primary	02/05/96	Gross alpha	4.7	3.1	4.1	Filtered		LAS
RD-27		Primary	02/05/96	Gross beta	8.4	2.3	3.1	Filtered		LAS
RD-27		Primary	08/19/96	Gross alpha	2.3 U	2.7	4.4	Filtered		LAS
RD-27		Primary	08/19/96	Gross beta	6.7	2.7	4	Filtered		LAS
RD-27		Primary	02/05/97	Gross alpha	5.8	3.1	3.8	Filtered		LAS
RD-27		Primary	02/05/97	Gross beta	8.4	2.3	3.1	Filtered		LAS
RD-27		Primary	08/27/97	Gross alpha	4.2 U	3.5	5.1	Filtered		LAS
RD-27		Primary	08/27/97	Gross beta	5.2	3.1	4.9	Filtered		LAS
RD-27		Primary	02/04/98	Gross alpha	6.68	2.2	1.59	Filtered		TN
RD-27		Primary	02/04/98	Gross beta	8.62	1.7	2.09	Filtered		TN
RD-27		Primary	08/07/98	Gross alpha	8.47 U	8.3	12.2	Filtered		TN
RD-27		Primary	08/07/98	Gross beta	-19 U	20	36.2	Filtered		TN
RD-27		Primary	02/16/99	Gross alpha	4.86	2.2	2.21	Filtered		TN
RD-27		Primary	02/16/99	Gross beta	6.31	1.9	2.64	Filtered		TN
RD-27		Primary	08/17/99	Gross alpha	5.3	1.9	1.45	Filtered		TN
RD-27		Primary	08/17/99	Gross beta	6.66	1.8	2.62	Filtered		TN
RD-27		Primary	02/21/00	Gross alpha	4.92	2.8	3.22	Filtered		TR
RD-27		Primary	02/21/00	Gross beta	6.16 U	4.1	6.39	Filtered		TR
RD-27		Primary	08/04/00	Gross alpha	3.15	2	2.58	Filtered		TR
RD-27		Primary	08/04/00	Gross beta	4.88	2.1	3.09	Filtered		TR
RD-27		Primary	02/14/01	Gross alpha	4.27	1.9	1.63	Filtered		ES
RD-27		Primary	02/14/01	Gross beta	8.48	4.1	1.92	Filtered		ES
RD-27		Primary	10/26/01	Gross alpha	10.14	3.64	1.43	Filtered		DL
RD-27		Primary	10/26/01	Gross beta	7.46	1.49	3.26	Filtered		DL
RD-27		Primary	03/06/02	Gross alpha	5.25	2.56	3.05	Filtered		DL
RD-27		Primary	03/06/02	Gross beta	5.28	1.38	2.78	Filtered		DL
RD-27		Primary	08/22/02	Gross alpha	2.42 U	3	4.22	Filtered		ES
RD-27		Primary	08/22/02	Gross beta	4.47 U	3.1	4.9	Filtered		ES
RD-27		Primary	05/14/03	Gross alpha	4.43	2.5	2.45	Filtered		ES
RD-27		Primary	05/14/03	Gross beta	7.41	3	3.88	Filtered		ES
RD-27		Split	11/14/03	Gross alpha	4.91	2.29	1.95	Filtered		STL
RD-27		Split	11/14/03	Gross beta	7.05	2.35	3.7	Filtered		STL
RD-27		Primary	11/14/03	Gross alpha	1.68 U	1.7	2.12	Filtered		ES
RD-27		Primary	11/14/03	Gross beta	6.79	2.3	2.56	Filtered		ES
RD-27		Primary	02/23/04	Gross alpha	9.34	4	2.6	Filtered		ES
RD-27		Primary	02/23/04	Gross beta	10.1	3.7	4.14	Filtered		ES
RD-27		Primary	08/10/04	Gross alpha	2.87 J	2	1.82	Filtered		ES
RD-27		Primary	08/10/04	Gross beta	5.78	2.3	2.74	Filtered		ES
RD-27		Primary	02/17/05	Gross alpha	4.55	2.1	1.54	Filtered		ES
RD-27		Primary	02/17/05	Gross beta	5.68	2	2.23	Filtered		ES
RD-27		Primary	08/24/05	Gross alpha	2.44 J	1.9	2.12	Filtered		ES
RD-27		Primary	08/24/05	Gross beta	7.97	2.7	2.89	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-27		Primary	02/20/06	Gross alpha	6.14	2.9	2.93	Filtered		ES
RD-27		Primary	02/20/06	Gross beta	9.06	2.4	1.93	Filtered		ES
RD-27		Primary	08/25/06	Gross alpha	1.57 U	1.5	2.37	Filtered		ES
RD-27		Primary	08/25/06	Gross beta	6.89	1.8	1.55	Filtered		ES
RD-27		Primary	02/14/07	Gross alpha	2.33 J	1.3	1.54	Filtered		ES
RD-27		Split	02/14/07	Gross alpha	5.69	2.3	1.15	Filtered		STL
RD-27		Primary	02/14/07	Gross beta	6.81	1.8	1.46	Filtered		ES
RD-27		Split	02/14/07	Gross beta	7.95	2.4	3.57	Filtered		STL
RD-27		Primary	08/09/07	Gross alpha	5.69	2.5	2.63	Filtered		ES
RD-27		Primary	08/09/07	Gross beta	7.02	2	2.04	Filtered		ES
RD-27		Primary	03/05/08	Gross alpha	7.26	2.7	2.5	Filtered		ES
RD-27		Primary	03/05/08	Gross beta	7.17	1.7	2.13	Filtered		ES
RD-27		Primary	09/04/08	Gross alpha	4.12	1.8	1.76	Filtered		ES
RD-27		Primary	09/04/08	Gross beta	10.3	1.7	1.63	Filtered		ES
RD-28		Primary	09/13/89	Gross alpha	7.1	1.3	---	Filtered		UST
RD-28		Primary	09/13/89	Gross alpha	9.5	1.3	---	Unfiltered		UST
RD-28		Split	09/13/89	Gross alpha	7	4	---	Filtered		TMA
RD-28		Split	09/13/89	Gross alpha	4	3	---	Unfiltered		TMA
RD-28		Primary	09/13/89	Gross beta	16.1	0.4	---	Filtered		UST
RD-28		Primary	09/13/89	Gross beta	18.3	0.4	---	Unfiltered		UST
RD-28		Split	09/13/89	Gross beta	14	5	---	Filtered		TMA
RD-28		Split	09/13/89	Gross beta	7	6	---	Unfiltered		TMA
RD-28		Primary	09/26/89	Gross alpha	10.4	2.3	---	Filtered		BC
RD-28		Primary	09/26/89	Gross alpha	14.9	2.6	---	Unfiltered		BC
RD-28		Primary	09/26/89	Gross beta	12.3	0.7	---	Filtered		BC
RD-28		Primary	09/26/89	Gross beta	9.4	0.8	---	Unfiltered		BC
RD-28		Primary	10/19/89	Gross alpha	10.4	3.4	---	Filtered		UST
RD-28		Primary	10/19/89	Gross beta	8.5	0.8	---	Filtered		UST
RD-28		Primary	03/27/90	Gross alpha	9.6	5.36	---	Filtered		UST
RD-28		Primary	03/27/90	Gross beta	6.09	2.73	---	Filtered		UST
RD-28		Primary	07/01/90	Gross alpha	3.34 U	3.9	---	Filtered		UST
RD-28		Primary	07/01/90	Gross beta	8.19	3.12	---	Filtered		UST
RD-28		Primary	09/16/90	Gross alpha	4.94	3.51	---	Filtered		UST
RD-28		Primary	09/16/90	Gross beta	4.66	2.52	---	Filtered		UST
RD-28		Primary	12/05/90	Gross alpha	1.47 U	6.11	4	Filtered		IT
RD-28		Primary	12/05/90	Gross beta	5.38	2.72	4	Filtered		IT
RD-28		Primary	03/06/91	Gross alpha	9.62	4.86	4	Filtered		IT
RD-28		Primary	03/06/91	Gross beta	2.91 U	1.14	4	Filtered		IT
RD-28		Primary	09/11/91	Gross alpha	6.05	3.1	4	Filtered		IT
RD-28		Primary	09/11/91	Gross beta	6.64	1.51	4	Filtered		IT
RD-28		Primary	12/10/91	Gross alpha	10.5	5.73	4	Filtered		IT
RD-28		Split	12/10/91	Gross alpha	2 U	---	2	Filtered		CEP
RD-28		Primary	12/10/91	Gross beta	10.1	2.87	4	Filtered		IT
RD-28		Split	12/10/91	Gross beta	3 U	---	3	Filtered		CEP
RD-28		Primary	03/06/92	Gross alpha	2 U	---	2	Filtered		CEP

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-28		Split	03/06/92	Gross alpha	17	8	6	Filtered		TEL
RD-28		Primary	03/06/92	Gross beta	3 U	---	3	Filtered		CEP
RD-28		Split	03/06/92	Gross beta	16	4	3	Filtered		TEL
RD-28		Primary	03/17/93	Gross alpha	9	4	2	Filtered		CEP
RD-28		Primary	03/17/93	Gross beta	6	4	3	Filtered		CEP
RD-28		Primary	08/05/93	Gross alpha	6	3	2	Filtered		CEP
RD-28		Primary	08/05/93	Gross beta	5	3	3	Filtered		CEP
RD-28		Primary	02/24/94	Gross alpha	24.7	9.7	9.5	Filtered		LAS
RD-28		Reanalysis of Primary	02/24/94	Gross alpha	15.4	7.3	8.1	Filtered		LAS
RD-28		Primary	02/24/94	Gross beta	12.3	7.2	11	Filtered		LAS
RD-28		Reanalysis of Primary	02/24/94	Gross beta	16.7	4.9	6.8	Filtered		LAS
RD-28		Primary	08/17/94	Gross alpha	7.3	4.6	5.4	Filtered		LAS
RD-28		Primary	08/17/94	Gross beta	6.8	4.3	6.8	Filtered		LAS
RD-28		Primary	02/09/95	Gross alpha	19.2	7.1	6.5	Filtered		LAS
RD-28		Reanalysis of Primary	02/09/95	Gross alpha	15.2	6.2	6	Filtered		LAS
RD-28		Primary	02/09/95	Gross beta	10.2	4.3	6.2	Filtered		LAS
RD-28		Reanalysis of Primary	02/09/95	Gross beta	8.8	4.4	6.6	Filtered		LAS
RD-28		Primary	08/18/95	Gross alpha	17.1	7	6.8	Filtered		LAS
RD-28		Primary	08/18/95	Gross beta	7.1	4.1	6.3	Filtered		LAS
RD-28		Primary	02/06/96	Gross alpha	17.2	7.8	9.1	Filtered		LAS
RD-28		Primary	02/06/96	Gross beta	15.3	4.6	6.3	Filtered		LAS
RD-28		Primary	08/20/96	Gross alpha	23.9	9.6	11	Filtered		LAS
RD-28		Primary	08/20/96	Gross beta	13.2	5.3	7.7	Filtered		LAS
RD-28		Primary	02/06/97	Gross alpha	12.2	6.9	9.1	Filtered		LAS
RD-28		Primary	02/06/97	Gross beta	8.6	4.4	6.8	Filtered		LAS
RD-28		Primary	08/28/97	Gross alpha	28	10	9.1	Filtered		LAS
RD-28		Primary	08/28/97	Gross beta	13	6.6	9.9	Filtered		LAS
RD-28		Primary	02/05/98	Gross alpha	24.7	5.7	2.87	Filtered		TN
RD-28		Primary	02/05/98	Gross beta	11.2	2	2.44	Filtered		TN
RD-28		Primary	08/18/98	Gross alpha	1.73	0.98	1.15	Filtered		TN
RD-28		Primary	08/18/98	Gross beta	8.56	1.8	2.38	Filtered		TN
RD-28		Primary	02/16/99	Gross alpha	14	4.3	3.59	Filtered		TN
RD-28		Primary	02/16/99	Gross beta	12.2	1.9	2.16	Filtered		TN
RD-28		Primary	08/19/99	Gross alpha	21.4	5.5	4.48	Filtered		TN
RD-28		Primary	08/19/99	Gross beta	14.4	3.2	3.96	Filtered		TN
RD-28		Primary	02/16/00	Gross alpha	15	5	3.67	Filtered		TR
RD-28		Primary	02/16/00	Gross beta	13.4	4.3	5.87	Filtered		TR
RD-28		Primary	08/09/00	Gross alpha	3.54 U	4.1	5.74	Filtered		TR
RD-28		Primary	08/09/00	Gross beta	28.7	3.8	4.55	Filtered		TR
RD-28		Primary	02/07/01	Gross alpha	5.82	2.9	2.51	Filtered		ES
RD-28		Primary	02/07/01	Gross beta	15.9	2	2.05	Filtered		ES
RD-28		Primary	10/25/01	Gross alpha	24.51	7	3.19	Filtered		DL
RD-28		Primary	10/25/01	Gross beta	8.26	1.49	3.86	Filtered		DL

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-28		Primary	02/25/02	Gross alpha	29.36	5.9	4.84	Filtered		DL
RD-28		Primary	02/25/02	Gross beta	1.74 U	0.42	3.26	Filtered		DL
RD-28		Primary	11/06/02	Gross alpha	18.7	5.7	4.84	Filtered		ES
RD-28		Primary	11/06/02	Gross beta	10.3	3.1	3.26	Filtered		ES
RD-28		Primary	02/24/03	Gross alpha	11.9	4.7	4.57	Filtered		ES
RD-28		Primary	02/24/03	Gross beta	12	3.9	5.33	Filtered		ES
RD-28		Primary	11/14/03	Gross alpha	11.1	6.5	5.96	Filtered		ES
RD-28		Primary	11/14/03	Gross beta	15.4	6.7	8.98	Filtered		ES
RD-28		Primary	02/23/04	Gross alpha	14.4	7	5.58	Filtered		ES
RD-28		Primary	02/23/04	Gross beta	11.3	5.7	7.48	Filtered		ES
RD-28		Split	02/23/04	Gross alpha	21.3	7.8	3.33	Filtered		STL
RD-28		Split	02/23/04	Gross beta	16.6	4.57	6.46	Filtered		STL
RD-29		Primary	09/20/89	Gross alpha	29.9	3	---	Filtered		BC
RD-29		Primary	09/20/89	Gross alpha	-1 U	0.9	---	Unfiltered		BC
RD-29		Duplicate	09/20/89	Gross alpha	30	3	---	Filtered		BC
RD-29		Duplicate	09/20/89	Gross alpha	36.5	3	---	Unfiltered		BC
RD-29		Primary	09/20/89	Gross beta	37.3	1.5	---	Filtered		BC
RD-29		Primary	09/20/89	Gross beta	22.3	0.4	---	Unfiltered		BC
RD-29		Duplicate	09/20/89	Gross beta	35	1.5	---	Filtered		BC
RD-29		Duplicate	09/20/89	Gross beta	35.2	1.6	---	Unfiltered		BC
RD-29		Primary	10/18/89	Gross alpha	20.9	3.3	---	Filtered		UST
RD-29		Primary	10/18/89	Gross beta	8.7	1.1	---	Filtered		UST
RD-29		Primary	12/08/89	Gross alpha	18.6	5.36	---	Filtered		UST
RD-29		Primary	12/08/89	Gross alpha	22.6	6.21	---	Unfiltered		UST
RD-29		Primary	12/08/89	Gross beta	7.12	2.86	---	Filtered		UST
RD-29		Primary	12/08/89	Gross beta	6.55	2.8	---	Unfiltered		UST
RD-29		Primary	03/27/90	Gross alpha	20.1	7.35	---	Filtered		UST
RD-29		Primary	03/27/90	Gross beta	9.85	3.17	---	Filtered		UST
RD-29		Primary	06/30/90	Gross alpha	15.3	6.63	---	Filtered		UST
RD-29		Primary	06/30/90	Gross beta	11.7	3.28	---	Filtered		UST
RD-29		Primary	09/15/90	Gross alpha	28.7	8.06	---	Filtered		UST
RD-29		Primary	09/15/90	Gross beta	5.1	2.59	---	Filtered		UST
RD-29		Primary	12/06/90	Gross alpha	11.9	4.93	4	Filtered		IT
RD-29		Duplicate	12/06/90	Gross alpha	13.3	4.83	4	Filtered		IT
RD-29		Primary	12/06/90	Gross beta	5.61	2.69	4	Filtered		IT
RD-29		Duplicate	12/06/90	Gross beta	7.19	2.84	4	Filtered		IT
RD-29		Primary	03/05/91	Gross alpha	29.1	8.42	4	Filtered		IT
RD-29		Primary	03/05/91	Gross beta	3.98 U	1.24	4	Filtered		IT
RD-29		Primary	06/05/91	Gross alpha	7.06	2.99	4	Filtered		IT
RD-29		Duplicate	06/05/91	Gross alpha	7	4.46	4	Filtered		IT
RD-29		Primary	06/05/91	Gross beta	4.51	2.55	4	Filtered		IT
RD-29		Duplicate	06/05/91	Gross beta	12.9	3.47	4	Filtered		IT
RD-29		Primary	09/07/91	Gross alpha	5.01	1.6	4	Filtered		IT
RD-29		Primary	09/07/91	Gross beta	6.95	1.54	4	Filtered		IT
RD-29		Primary	12/10/91	Gross alpha	17.9	6.42	4	Filtered		IT

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-29		Split	12/10/91	Gross alpha	2 U	---	2	Filtered		CEP
RD-29		Primary	12/10/91	Gross beta	12.5	2.82	4	Filtered		IT
RD-29		Split	12/10/91	Gross beta	3 U	---	3	Filtered		CEP
RD-29		Primary	03/03/92	Gross alpha	3	2	2	Filtered		CEP
RD-29		Primary	03/03/92	Gross beta	5	3	3	Filtered		CEP
RD-29		Primary	06/03/92	Gross alpha	4	2	2	Filtered		CEP
RD-29		Primary	06/03/92	Gross beta	1 U	3	3	Filtered		CEP
RD-29		Primary	09/10/92	Gross alpha	10	3	2	Filtered		CEP
RD-29		Primary	09/10/92	Gross beta	21	5	3	Filtered		CEP
RD-29		Primary	12/05/92	Gross alpha	9	3	2	Filtered		CEP
RD-29		Primary	12/05/92	Gross beta	12	3	3	Filtered		CEP
RD-29		Primary	03/05/93	Gross alpha	4	3	2	Filtered	High statistics due to large amount of solids.	CEP
RD-29		Primary	03/05/93	Gross beta	7	4	3	Filtered		CEP
RD-29		Primary	08/08/93	Gross alpha	3	2	2	Filtered	High statistics due to large amount of solids.	CEP
RD-29		Primary	08/08/93	Gross beta	4	3	3	Filtered		CEP
RD-29		Primary	02/26/94	Gross alpha	7.8	4.8	6.2	Filtered		LAS
RD-29		Primary	02/26/94	Gross beta	8.1	3.6	5.3	Filtered		LAS
RD-29		Primary	08/17/94	Gross alpha	17.1	6.5	5.7	Filtered		LAS
RD-29		Primary	08/17/94	Gross beta	8.3	4.5	6.8	Filtered		LAS
RD-29		Primary	05/09/01	Gross alpha	2.15 U	2.8	4.01	Filtered		CEP
RD-29		Primary	05/09/01	Gross beta	3.99 U	3.2	5.16	Filtered		CEP
RD-29		Primary	05/03/02	Gross alpha	22.79	6.44	2.04	Filtered		DL
RD-29		Primary	05/03/02	Gross beta	5.31	1.15	3.32	Filtered		DL
RD-29		Primary	05/13/03	Gross alpha	16.1	5.5	3.04	Filtered		ES
RD-29		Primary	05/13/03	Gross beta	9.76	4.1	5.16	Filtered		ES
RD-29		Primary	02/24/04	Gross alpha	12.1	5.3	3.85	Filtered		ES
RD-29		Primary	02/24/04	Gross beta	9.97	4.6	5.99	Filtered		ES
RD-29		Primary	08/09/04	Gross alpha	10.9	4.8	3.76	Filtered		ES
RD-29		Primary	08/09/04	Gross beta	9.62	4.4	6.04	Filtered		ES
RD-29		Primary	02/24/05	Gross alpha	3.1	1.7	1.7	Filtered		ES
RD-29		Primary	02/24/05	Gross beta	11	3	2.52	Filtered		ES
RD-29		Primary	08/25/05	Gross alpha	4.13	1.6	1.47	Filtered		ES
RD-29		Primary	08/25/05	Gross beta	6.06	1.8	1.78	Filtered		ES
RD-29		Primary	02/16/06	Gross alpha	9.83	3.9	3.02	Filtered		ES
RD-29		Primary	02/16/06	Gross beta	9.28	2.5	1.92	Filtered		ES
RD-29		Primary	08/11/06	Gross alpha	7.12	2.5	1.8	Filtered		ES
RD-29		Primary	08/11/06	Gross beta	6.24	3.3	4.85	Filtered		ES
RD-29		Primary	02/07/07	Gross alpha	10	5.3	5.62	Filtered		ES
RD-29		Primary	02/07/07	Gross beta	10.7	6	8.59	Filtered		ES
RD-29		Primary	08/08/07	Gross alpha	18.8	8.9	7.99	Filtered		ES
RD-29		Primary	08/08/07	Gross beta	15.5	5.7	6.57	Filtered		ES
RD-29		Primary	02/05/08	Gross alpha	16.8	4.7	2.67	Filtered		ES
RD-29		Primary	02/05/08	Gross beta	12	2.9	2.23	Filtered		ES
RD-29		Primary	08/11/08	Gross alpha	10.8	3.7	3.21	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-29		Primary	08/11/08	Gross beta	7.95	2.3	3.4	Filtered		ES
RD-30		Primary	09/22/89	Gross alpha	17.4	2.4	---	Filtered		BC
RD-30		Primary	09/22/89	Gross alpha	22.8	2.7	---	Unfiltered		BC
RD-30		Primary	09/22/89	Gross beta	33.2	1.2	---	Filtered		BC
RD-30		Primary	09/22/89	Gross beta	38.4	1.3	---	Unfiltered		BC
RD-30		Primary	10/19/89	Gross alpha	8.5	2.8	---	Filtered		UST
RD-30		Primary	10/19/89	Gross beta	8.1	0.8	---	Filtered		UST
RD-30		Primary	03/27/90	Gross alpha	3.19	2.74	---	Filtered		UST
RD-30		Primary	03/27/90	Gross beta	5.19	2.66	---	Filtered		UST
RD-30		Primary	06/29/90	Gross alpha	5.24	4.33	---	Filtered		UST
RD-30		Primary	06/29/90	Gross beta	3.18	2.42	---	Filtered		UST
RD-30		Primary	09/15/90	Gross alpha	2.63	2.15	---	Filtered		UST
RD-30		Primary	09/15/90	Gross beta	4.88	2.61	---	Filtered		UST
RD-30		Primary	12/06/90	Gross alpha	4.71	2.42	4	Filtered		IT
RD-30		Primary	12/06/90	Gross beta	3.18 U	2.46	4	Filtered		IT
RD-30		Primary	03/09/91	Gross alpha	8.58	4.74	4	Filtered		IT
RD-30		Primary	03/09/91	Gross beta	6.12	2.68	4	Filtered		IT
RD-30		Primary	09/09/91	Gross alpha	1.16 U	0.756	4	Filtered		IT
RD-30		Primary	09/09/91	Gross beta	4.65	1.33	4	Filtered		IT
RD-30		Primary	12/06/91	Gross alpha	11.9	4.99	4	Filtered		IT
RD-30		Primary	12/06/91	Gross beta	7.03	2.24	4	Filtered		IT
RD-30		Primary	06/03/92	Gross alpha	4	2	2	Filtered		CEP
RD-30		Split	06/03/92	Gross alpha	10	5	6	Filtered		TEL
RD-30		Primary	06/03/92	Gross beta	1 U	3	3	Filtered		CEP
RD-30		Split	06/03/92	Gross beta	9.9	2.7	3	Filtered		TEL
RD-30		Primary	03/21/93	Gross alpha	2 U	---	2	Filtered		CEP
RD-30		Primary	03/21/93	Gross beta	14	3	3	Filtered		CEP
RD-30		Primary	02/26/94	Gross alpha	4.8 U	4.7	7.2	Filtered		LAS
RD-30		Primary	02/26/94	Gross beta	7.9	3.9	6	Filtered		LAS
RD-30		Primary	08/09/94	Gross alpha	4.6 U	4	5.8	Filtered		LAS
RD-30		Primary	08/09/94	Gross beta	7.5	3.5	5.3	Filtered		LAS
RD-30		Primary	02/08/95	Gross alpha	10.2	6.2	8	Filtered		LAS
RD-30		Primary	02/08/95	Gross beta	7.6	4.5	7	Filtered		LAS
RD-30		Primary	08/19/95	Gross alpha	5.5 U	4.1	5.8	Filtered		LAS
RD-30		Primary	08/19/95	Gross beta	4.7 U	3.2	5.2	Filtered		LAS
RD-30		Primary	02/28/96	Gross alpha	5.6 U	4.5	6.6	Filtered		LAS
RD-30		Primary	02/28/96	Gross beta	3.1 U	3.3	5.5	Filtered		LAS
RD-30		Primary	08/20/96	Gross alpha	7 U	5.7	8.6	Filtered		ES
RD-30		Primary	08/20/96	Gross beta	5.6 U	3.8	6	Filtered		ES
RD-30		Primary	02/25/97	Gross alpha	12.1	5.2	5.1	Filtered		LAS
RD-30		Primary	02/25/97	Gross beta	7.5	3.1	4.6	Filtered		LAS
RD-30		Primary	08/27/97	Gross alpha	13.6	7	8.2	Filtered		LAS
RD-30		Primary	08/27/97	Gross beta	9	5.2	8.1	Filtered		LAS
RD-30		Primary	05/28/98	Gross alpha	10.7	3.6	3.18	Filtered		TN
RD-30		Primary	05/28/98	Gross beta	8.29	1.7	2.02	Filtered		TN

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-30		Primary	08/05/98	Gross alpha	9.2 U	9	13.2	Filtered		TN
RD-30		Primary	08/05/98	Gross beta	-2.84 U	20	35	Filtered		TN
RD-30		Primary	02/05/99	Gross alpha	6.46	2.9	2.83	Filtered		TN
RD-30		Primary	02/05/99	Gross beta	8.21	2.7	3.87	Filtered		TN
RD-30		Primary	05/05/00	Gross alpha	10.5	3.6	2.89	Filtered		TR
RD-30		Primary	05/05/00	Gross beta	7.54	3.1	4.48	Filtered		TR
RD-30		Primary	08/08/00	Gross alpha	7.63	3	2.64	Filtered		TR
RD-30		Primary	08/08/00	Gross beta	10.4	2.8	3.79	Filtered		TR
RD-30		Primary	05/09/01	Gross alpha	6.43	3	2.91	Filtered		ES
RD-30		Primary	05/09/01	Gross beta	9.48	1.8	2.12	Filtered		ES
RD-30		Primary	11/09/01	Gross alpha	14.72	6.4	2.98	Filtered		DL
RD-30		Primary	11/09/01	Gross beta	8.3	1.97	4.22	Filtered		DL
RD-30		Primary	03/11/02	Gross alpha	14.94	4.1	4.24	Filtered		DL
RD-30		Primary	03/11/02	Gross beta	5.03	1.16	3.26	Filtered		DL
RD-30		Primary	08/30/02	Gross alpha	10.8	3.3	2.4	Filtered		ES
RD-30		Primary	08/30/02	Gross beta	10.1	2.2	2.91	Filtered		ES
RD-30		Primary	02/07/03	Gross alpha	3.27	1.6	1.72	Filtered		ES
RD-30		Primary	02/07/03	Gross beta	7	1.9	2.74	Filtered		ES
RD-30		Primary	11/14/03	Gross alpha	8.3	4.4	3.19	Filtered		ES
RD-30		Primary	11/14/03	Gross beta	13.9	4.2	3.81	Filtered		ES
RD-30		Primary	02/24/04	Gross alpha	10.6	5.2	4.09	Filtered		ES
RD-30		Primary	02/24/04	Gross beta	-9.66 U	7.3	12.3	Filtered		ES
RD-30		Primary	08/10/04	Gross alpha	2.25 U	3.1	4.42	Filtered		ES
RD-30		Primary	08/10/04	Gross beta	10.7	4	4.74	Filtered		ES
RD-30		Primary	08/29/05	Gross alpha	8.72	2.7	1.78	Filtered		ES
RD-30		Split	08/29/05	Gross alpha	13	3.7	1.48	Filtered		STL
RD-30		Primary	08/29/05	Gross beta	7.88	2.3	2.45	Filtered		ES
RD-30		Split	08/29/05	Gross beta	7.9	2.6	4.08	Filtered		STL
RD-30		Primary	02/17/06	Gross alpha	5.51	3.6	4.27	Filtered		ES
RD-30		Primary	02/17/06	Gross beta	9.28	2.9	2.84	Filtered		ES
RD-30		Primary	08/09/06	Gross alpha	10.3	3.6	3.33	Filtered		ES
RD-30		Split	08/09/06	Gross alpha	9.63	3.9	2.68	Filtered		STL
RD-30		Primary	08/09/06	Gross beta	8.45	2.9	3.39	Filtered		ES
RD-30		Split	08/09/06	Gross beta	11.4	3.8	5.92	Filtered		STL
RD-30		Primary	05/24/07	Gross alpha	6.86	3	3.31	Filtered		ES
RD-30		Primary	05/24/07	Gross beta	6.17	2.7	3.75	Filtered		ES
RD-30		Primary	08/21/07	Gross alpha	5.67	3.5	4.52	Filtered		ES
RD-30		Primary	08/21/07	Gross beta	7.66	2.9	3.81	Filtered		ES
RD-30		Primary	02/06/08	Gross alpha	11.8	4.5	3.8	Filtered		ES
RD-30		Primary	02/06/08	Gross beta	10.6	3.5	4.1	Filtered		ES
RD-30		Primary	08/13/08	Gross alpha	7.56	3.6	4.06	Filtered		ES
RD-30		Primary	08/13/08	Gross beta	8.74	2.8	3.87	Filtered		ES
RD-31		Primary	09/26/89	Gross alpha	3.6	1	---	Filtered		BC
RD-31		Primary	09/26/89	Gross alpha	3.7	0.8	---	Unfiltered		BC
RD-31		Primary	09/26/89	Gross beta	4.8	0.3	---	Filtered		BC

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-31		Primary	09/26/89	Gross beta	7.4	0.3	---	Unfiltered		BC
RD-31		Primary	10/24/89	Gross alpha	4.2	2.1	---	Filtered		BC
RD-31		Primary	10/24/89	Gross beta	1.4	0.6	---	Filtered		BC
RD-31		Primary	12/05/90	Gross alpha	2.07 U	1.8	4	Filtered		IT
RD-31		Primary	12/05/90	Gross beta	4.18	2.56	4	Filtered		IT
RD-31		Primary	03/10/91	Gross alpha	2.26 U	1.66	4	Filtered		IT
RD-31		Primary	03/10/91	Gross beta	1.02 U	2.1	4	Filtered	High statistics due to large amount of solids.	IT
RD-31		Primary	03/05/92	Gross alpha	2 U	---	2	Filtered		CEP
RD-31		Primary	03/05/92	Gross beta	3 U	---	3	Filtered		CEP
RD-33A		Primary	12/05/91	Gross alpha	7.99	3.19	4	Filtered		IT
RD-33A		Primary	12/05/91	Gross beta	8.1	1.9	4	Filtered		IT
RD-33A		Primary	12/12/91	Gross alpha	12.9	4.01	4	Filtered		IT
RD-33A		Split	12/12/91	Gross alpha	2 U	---	2	Filtered		CEP
RD-33A		Primary	12/12/91	Gross beta	7.13	1.72	4	Filtered		IT
RD-33A		Split	12/12/91	Gross beta	3 U	---	3	Filtered		CEP
RD-33A		Primary	06/08/92	Gross alpha	3	2	2	Filtered		CEP
RD-33A		Primary	06/08/92	Gross beta	-2 U	3	3	Filtered	High statistics due to large amount of solids.	CEP
RD-33A		Primary	09/15/92	Gross alpha	5	2	2	Filtered		CEP
RD-33A		Primary	09/15/92	Gross beta	7	4	3	Filtered		CEP
RD-33A		Primary	12/05/92	Gross alpha	2 U	---	2	Filtered		CEP
RD-33A		Primary	12/05/92	Gross beta	4	3	3	Filtered		CEP
RD-33A		Primary	06/24/93	Gross alpha	2 U	---	2	Filtered		CEP
RD-33A		Primary	06/24/93	Gross beta	3 U	---	3	Filtered		CEP
RD-33A		Primary	08/24/93	Gross alpha	2 U	---	2	Filtered		CEP
RD-33A		Primary	08/24/93	Gross beta	7	3	3	Filtered		CEP
RD-33A		Primary	11/17/93	Gross alpha	3.9	2.8	3.7	Filtered		LAS
RD-33A		Primary	11/17/93	Gross beta	7.2	2.5	3.6	Filtered		LAS
RD-33A		Primary	02/27/94	Gross alpha	4.9	3.1	4.1	Filtered		LAS
RD-33A		Primary	02/27/94	Gross beta	4.6	2.1	3.2	Filtered		LAS
RD-33A		Primary	08/18/94	Gross alpha	3.9 U	2.8	4	Filtered		LAS
RD-33A		Primary	08/18/94	Gross beta	5.7	2.5	3.7	Filtered		LAS
RD-33A		Primary	02/07/95	Gross alpha	1.8 U	2.3	3.7	Filtered		LAS
RD-33A		Primary	02/07/95	Gross beta	7.7	2.4	3.3	Filtered		LAS
RD-33A		Primary	08/09/95	Gross alpha	1.6 U	1.9	3	Filtered		LAS
RD-33A		Primary	08/09/95	Gross beta	5.8	2.1	3.1	Filtered		LAS
RD-33A		Primary	02/19/96	Gross alpha	6.7	3.5	4.6	Filtered		LAS
RD-33A		Primary	02/19/96	Gross beta	4	2.2	3.4	Filtered		LAS
RD-33A		Primary	08/23/96	Gross alpha	1.6 U	2.4	4.2	Filtered		LAS
RD-33A		Primary	08/23/96	Gross beta	4.2	2.3	3.6	Filtered		LAS
RD-33A		Primary	02/25/97	Gross alpha	7.6	3.2	3.5	Filtered		LAS
RD-33A		Primary	02/25/97	Gross beta	4.2	1.8	2.7	Filtered		LAS
RD-33A		Primary	08/27/97	Gross alpha	1.2 U	2.2	4	Filtered		LAS
RD-33A		Primary	08/27/97	Gross beta	8.6	3.4	5.1	Filtered		LAS
RD-33A		Primary	05/27/98	Gross alpha	7.38	2.3	1.66	Filtered		TN

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-33A		Primary	05/27/98	Gross beta	5.67	1.8	2.46	Filtered		TN
RD-33A		Primary	08/17/98	Gross alpha	1.5	0.76	0.786	Filtered		TN
RD-33A		Primary	08/17/98	Gross beta	4.71	1.4	2.02	Filtered		TN
RD-33A		Primary	02/03/99	Gross alpha	3.16	1.4	1.26	Filtered		TN
RD-33A		Primary	02/03/99	Gross beta	4.87	1.7	2.46	Filtered		TN
RD-33A		Primary	02/09/00	Gross alpha	5.26	2.2	2.24	Filtered		TR
RD-33A		Primary	02/09/00	Gross beta	5.35	2.2	3.27	Filtered		TR
RD-33A		Primary	05/14/01	Gross alpha	1.7 U	1.5	2	Filtered		ES
RD-33A		Primary	05/14/01	Gross beta	6.32	1.5	1.98	Filtered		ES
RD-33A		Primary	02/15/02	Gross alpha	3.13	1.79	2.33	Filtered		DL
RD-33A		Primary	02/15/02	Gross beta	6.36	1.55	2.87	Filtered		DL
RD-33A	Z4	Primary	01/30/03	Gross alpha	3.42	2.1	2.24	Filtered		ES
RD-33A	Z4	Primary	01/30/03	Gross beta	5.38	2.3	3.32	Filtered		ES
RD-33A	Z2	Primary	11/15/04	Gross alpha	1.75 J	1.2	1.46	Filtered		ES
RD-33A	Z2	Primary	11/15/04	Gross beta	5.52	1.8	1.82	Filtered		ES
RD-33A	Z3	Primary	02/17/05	Gross alpha	4.16	2.2	2.28	Filtered		ES
RD-33A	Z3	Primary	02/17/05	Gross beta	6.98	2.3	2.4	Filtered		ES
RD-33A	Z3	Primary	09/01/05	Gross alpha	4.31	1.9	1.36	Filtered		ES
RD-33A	Z3	Primary	09/01/05	Gross beta	4.76	1.7	1.94	Filtered		ES
RD-33A	Z2	Primary	02/17/06	Gross alpha	2.53 J	1.3	1.33	Filtered		ES
RD-33A	Z2	Primary	02/17/06	Gross beta	2.7 J	1.3	1.84	Filtered		ES
RD-33A	Z3	Primary	08/18/06	Gross alpha	4.54	1.7	1.47	Filtered		ES
RD-33A	Z3	Primary	08/18/06	Gross beta	5.58	1.5	1.4	Filtered		ES
RD-33A	Z2	Primary	02/08/07	Gross alpha	5.35	2.7	2.64	Filtered		ES
RD-33A	Z2	Primary	02/08/07	Gross beta	7.39	2.6	2.72	Filtered		ES
RD-33A	Z2	Primary	08/13/07	Gross alpha	6.2	3.2	2.99	Filtered		ES
RD-33A	Z2	Primary	08/13/07	Gross beta	4.05	2.2	2.91	Filtered		ES
RD-33A	Z2	Primary	02/07/08	Gross alpha	1.48 U	1.3	1.94	Filtered		ES
RD-33A	Z2	Primary	02/07/08	Gross beta	5.8	1.4	0.987	Filtered		ES
RD-33A	Z2	Primary	08/08/08	Gross alpha	8.77	2.6	1.64	Filtered		ES
RD-33A	Z2	Primary	08/08/08	Gross beta	6.98	1.5	2.02	Filtered		ES
RD-33B		Primary	12/12/91	Gross alpha	2.87 U	2.16	4	Filtered		IT
RD-33B		Split	12/12/91	Gross alpha	2 U	---	2	Filtered		CEP
RD-33B		Primary	12/12/91	Gross beta	7.53	1.92	4	Filtered		IT
RD-33B		Split	12/12/91	Gross beta	3 U	---	3	Filtered		CEP
RD-33B		Primary	06/24/92	Gross alpha	1 U	2	2	Filtered		CEP
RD-33B		Primary	06/24/92	Gross beta	3	3	3	Filtered		CEP
RD-33B		Primary	09/15/92	Gross alpha	0.1 U	1.3	2	Filtered	High statistics due to large amount of solids.	CEP
RD-33B		Primary	09/15/92	Gross beta	0.3 U	3	3	Filtered		CEP
RD-33B		Primary	12/05/92	Gross alpha	2 U	---	2	Filtered		CEP
RD-33B		Primary	12/05/92	Gross beta	9	3	3	Filtered		CEP
RD-33B		Primary	06/24/93	Gross alpha	2 U	---	2	Filtered		CEP
RD-33B		Primary	06/24/93	Gross beta	3 U	---	3	Filtered		CEP
RD-33B		Primary	08/24/93	Gross alpha	2	1	2	Filtered		CEP
RD-33B		Primary	08/24/93	Gross beta	4	3	3	Filtered		CEP

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-33B		Primary	11/17/93	Gross alpha	1.1 U	1.3	2.2	Filtered		LAS
RD-33B		Primary	11/17/93	Gross beta	5.3	1.6	2.3	Filtered		LAS
RD-33B		Primary	02/27/94	Gross alpha	0.8 U	1.8	3.3	Filtered		LAS
RD-33B		Primary	02/27/94	Gross beta	4.9	2	2.9	Filtered		LAS
RD-33B		Primary	08/18/94	Gross alpha	0.7 U	2	3.9	Filtered		LAS
RD-33B		Primary	08/18/94	Gross beta	5.4	3	4.7	Filtered		LAS
RD-33B		Primary	02/07/95	Gross alpha	0 U	1.8	3.9	Filtered		LAS
RD-33B		Primary	02/07/95	Gross beta	5.7	2.4	3.5	Filtered		LAS
RD-33B		Primary	08/09/95	Gross alpha	1.5 U	1.8	3	Filtered		LAS
RD-33B		Primary	08/09/95	Gross beta	4.9	1.9	2.8	Filtered		LAS
RD-33B		Primary	02/19/96	Gross alpha	2.6 U	2.4	3.7	Filtered		LAS
RD-33B		Primary	02/19/96	Gross beta	4.5	2.3	3.6	Filtered		LAS
RD-33B		Primary	08/23/96	Gross alpha	-0.5 U	1.5	3.6	Filtered		LAS
RD-33B		Primary	08/23/96	Gross beta	6.8	2.5	3.7	Filtered		LAS
RD-33B		Primary	02/25/97	Gross alpha	1.2 U	2	3.5	Filtered		LAS
RD-33B		Primary	02/25/97	Gross beta	4.4	1.7	2.4	Filtered		LAS
RD-33B		Primary	08/22/97	Gross alpha	2.5 U	2.2	3.2	Filtered		LAS
RD-33B		Primary	08/22/97	Gross beta	5.8	2.4	3.6	Filtered		LAS
RD-33B		Primary	05/27/98	Gross alpha	1.44 U	1.5	2.27	Filtered		TN
RD-33B		Primary	05/27/98	Gross beta	6.5	1.5	1.91	Filtered		TN
RD-33B		Primary	08/17/98	Gross alpha	0.004 U	0.34	0.724	Filtered		TN
RD-33B		Primary	08/17/98	Gross beta	4.31	1.5	2.13	Filtered		TN
RD-33B		Primary	02/03/99	Gross alpha	1.86	1.4	1.75	Filtered		TN
RD-33B		Primary	02/03/99	Gross beta	3.8	1.4	2.05	Filtered		TN
RD-33B		Primary	02/09/00	Gross alpha	2.31 U	1.8	2.43	Filtered		TR
RD-33B		Primary	02/09/00	Gross beta	5.24	3.2	4.94	Filtered		TR
RD-33B		Primary	02/17/01	Gross alpha	1.73 U	1.6	1.99	Filtered		ES
RD-33B		Primary	02/17/01	Gross beta	4.68	1.7	2.49	Filtered		ES
RD-33B		Primary	02/15/02	Gross alpha	3.19	2.09	1.35	Filtered		DL
RD-33B		Primary	02/15/02	Gross beta	2.78	1.31	1.89	Filtered		DL
RD-33B		Primary	02/11/03	Gross alpha	0.527 U	0.75	1.07	Filtered		ES
RD-33B		Primary	02/11/03	Gross beta	4.94	1.1	1.66	Filtered		ES
RD-33B		Primary	11/04/04	Gross alpha	1.02 U	1.5	2.07	Filtered		ES
RD-33B		Primary	11/04/04	Gross beta	5.46	2.4	2.95	Filtered		ES
RD-33B		Primary	02/17/05	Gross alpha	1.99 U	1.6	2.15	Filtered		ES
RD-33B		Split	02/17/05	Gross alpha	1.21 U	1.5	2.84	Filtered		STL
RD-33B		Primary	02/17/05	Gross beta	5.98	1.9	2.02	Filtered		ES
RD-33B		Split	02/17/05	Gross beta	4.92	2.2	3.77	Filtered		STL
RD-33B		Primary	08/22/05	Gross alpha	1.47 J	0.92	1.09	Filtered		ES
RD-33B		Primary	08/22/05	Gross beta	5.04	1.5	1.63	Filtered		ES
RD-33B		Split	08/22/05	Gross alpha	2.48 J	1.4	1.73	Filtered		STL
RD-33B		Split	08/22/05	Gross beta	7.76	2.3	3.32	Filtered		STL
RD-33B		Primary	02/16/06	Gross alpha	1.22 U	2.6	4.4	Filtered		ES
RD-33B		Primary	02/16/06	Gross beta	5.82	2.8	4.18	Filtered		ES
RD-33B		Primary	08/09/06	Gross alpha	-0.647 U	0.99	1.9	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-33B		Split	08/09/06	Gross alpha	2.24 U	2	2.88	Filtered		STL
RD-33B		Primary	08/09/06	Gross beta	4.99	1.8	2.35	Filtered		ES
RD-33B		Split	08/09/06	Gross beta	9.68	2.9	4.28	Filtered		STL
RD-33B		Primary	02/07/07	Gross alpha	0.218 U	1.3	2.19	Filtered		ES
RD-33B		Primary	02/07/07	Gross beta	5.06	2.6	3.71	Filtered		ES
RD-33B		Primary	08/14/07	Gross alpha	-1.51 U	2	3.6	Filtered		ES
RD-33B		Primary	08/14/07	Gross beta	3.22 J	1.8	2.87	Filtered		ES
RD-33B		Primary	02/13/08	Gross alpha	0.997 U	1.3	2.02	Filtered		ES
RD-33B		Primary	02/13/08	Gross beta	5.14	2	2.99	Filtered		ES
RD-33B		Primary	08/07/08	Gross alpha	1.35 U	1.6	2.62	Filtered		ES
RD-33B		Primary	08/07/08	Gross beta	4.86	1.3	1.85	Filtered		ES
RD-33C		Primary	12/05/91	Gross alpha	4.19	2.34	4	Filtered		IT
RD-33C		Primary	12/05/91	Gross beta	7.42	1.79	4	Filtered		IT
RD-33C		Primary	12/12/91	Gross alpha	1.91 U	1.82	4	Filtered		IT
RD-33C		Split	12/12/91	Gross alpha	-6 U	---	2	Filtered		CEP
RD-33C		Primary	12/12/91	Gross beta	6.15	1.75	4	Filtered		IT
RD-33C		Split	12/12/91	Gross beta	2 U	4	3	Filtered		CEP
RD-33C		Primary	06/08/92	Gross alpha	1 U	1	2	Filtered		CEP
RD-33C		Primary	06/08/92	Gross beta	-3 U	3	3	Filtered		CEP
RD-33C		Primary	09/15/92	Gross alpha	2	2	2	Filtered		CEP
RD-33C		Primary	09/15/92	Gross beta	2 U	3	3	Filtered		CEP
RD-33C		Primary	12/05/92	Gross alpha	2 U	---	2	Filtered		CEP
RD-33C		Primary	12/05/92	Gross beta	4	3	3	Filtered		CEP
RD-33C		Primary	06/24/93	Gross alpha	2	1	2	Filtered		CEP
RD-33C		Primary	06/24/93	Gross beta	7	3	3	Filtered		CEP
RD-33C		Primary	08/24/93	Gross alpha	2	1	2	Filtered		CEP
RD-33C		Primary	08/24/93	Gross beta	8	3	3	Filtered		CEP
RD-33C		Primary	11/17/93	Gross alpha	2.3 U	2.6	4.1	Filtered		LAS
RD-33C		Primary	11/17/93	Gross beta	5.8	2.5	3.8	Filtered		LAS
RD-33C		Primary	02/27/94	Gross alpha	0.3 U	2.2	4.5	Filtered		LAS
RD-33C		Primary	02/27/94	Gross beta	6.4	2.3	3.4	Filtered		LAS
RD-33C		Primary	08/17/94	Gross alpha	2.1 U	2.8	4.6	Filtered		LAS
RD-33C		Primary	08/17/94	Gross beta	4.4 U	3.4	5.5	Filtered		LAS
RD-33C		Primary	02/07/95	Gross alpha	4.4 U	3.2	4.5	Filtered		LAS
RD-33C		Primary	02/07/95	Gross beta	4.2	2.6	4.1	Filtered		LAS
RD-33C		Primary	08/09/95	Gross alpha	2.6 U	2.4	3.6	Filtered		LAS
RD-33C		Primary	08/09/95	Gross beta	6.1	2.3	3.3	Filtered		LAS
RD-33C		Primary	02/19/96	Gross alpha	6.5	3.4	4.3	Filtered		LAS
RD-33C		Primary	02/19/96	Gross beta	4	2.2	3.4	Filtered		LAS
RD-33C		Primary	08/22/96	Gross alpha	-0.7 U	1.8	4.6	Filtered		LAS
RD-33C		Primary	08/22/96	Gross beta	4.9	2.8	4.3	Filtered		LAS
RD-33C		Primary	02/25/97	Gross alpha	3.1 U	2.5	3.5	Filtered		LAS
RD-33C		Primary	02/25/97	Gross beta	6.9	2.1	2.8	Filtered		LAS
RD-33C		Primary	08/21/97	Gross alpha	4.3	2.9	3.8	Filtered		LAS
RD-33C		Primary	08/21/97	Gross beta	5	2.7	4.1	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-33C		Primary	05/27/98	Gross alpha	5.82	2.2	2.01	Filtered		TN
RD-33C		Primary	05/27/98	Gross beta	5.99	1.6	2.13	Filtered		TN
RD-33C		Primary	08/17/98	Gross alpha	1.57	0.86	1	Filtered		TN
RD-33C		Primary	08/17/98	Gross beta	3.72	1.6	2.35	Filtered		TN
RD-33C		Primary	02/03/99	Gross alpha	3.4	1.7	1.81	Filtered		TN
RD-33C		Primary	02/03/99	Gross beta	5.55	1.6	2.24	Filtered		TN
RD-33C		Primary	02/09/00	Gross alpha	3.5	2.4	3.21	Filtered		TR
RD-33C		Primary	02/09/00	Gross beta	6.98	2.6	3.8	Filtered		TR
RD-33C		Primary	02/17/01	Gross alpha	4.71	2.2	1.99	Filtered		ES
RD-33C		Primary	02/17/01	Gross beta	6.91	1.6	2.02	Filtered		ES
RD-33C		Primary	02/15/02	Gross alpha	4.29	2.45	1.43	Filtered		DL
RD-33C		Primary	02/15/02	Gross beta	3.45	1.34	2.14	Filtered		DL
RD-33C		Primary	02/10/03	Gross alpha	0.201 U	1.5	2.63	Filtered		ES
RD-33C		Primary	02/10/03	Gross beta	5.34	2	2.78	Filtered		ES
RD-33C		Primary	11/04/04	Gross alpha	3.61	2.1	2.24	Filtered		ES
RD-33C		Split	11/04/04	Gross alpha	5.57	2.3	2.29	Filtered		STL
RD-33C		Primary	11/04/04	Gross beta	7.83	2.8	3.06	Filtered		ES
RD-33C		Split	11/04/04	Gross beta	6.85	2.5	4.13	Filtered		STL
RD-33C		Primary	02/16/05	Gross alpha	4.65	2.3	2.09	Filtered		ES
RD-33C		Primary	02/16/05	Gross beta	1.05 U	2.3	3.89	Filtered		ES
RD-33C		Primary	08/22/05	Gross alpha	2.82 J	1.4	1.22	Filtered		ES
RD-33C		Primary	08/22/05	Gross beta	4.43	1.7	2.32	Filtered		ES
RD-33C		Primary	02/16/06	Gross alpha	3.77	2.6	3.55	Filtered		ES
RD-33C		Primary	02/16/06	Gross beta	6.68	2.4	2.83	Filtered		ES
RD-33C		Primary	08/08/06	Gross alpha	1.65 U	1.3	1.84	Filtered		ES
RD-33C		Primary	08/08/06	Gross beta	4.75	1.7	2.12	Filtered		ES
RD-33C		Primary	02/06/07	Gross alpha	-0.318 U	1.8	3.86	Filtered		ES
RD-33C		Primary	02/06/07	Gross beta	-2.85 U	1.9	3.46	Filtered		ES
RD-33C		Primary	08/07/07	Gross alpha	3.01	2	2.56	Filtered		ES
RD-33C		Primary	08/07/07	Gross beta	4.97	1.8	2.25	Filtered		ES
RD-33C		Primary	02/12/08	Gross alpha	2.4 J	1.5	1.71	Filtered		ES
RD-33C		Primary	02/12/08	Gross beta	4.9	1.2	1.58	Filtered		ES
RD-33C		Primary	08/07/08	Gross alpha	2.94 J	1.8	2.11	Filtered		ES
RD-33C		Primary	08/07/08	Gross beta	5.77	2.3	3.36	Filtered		ES
RD-34A		Primary	12/05/91	Gross alpha	22.1	7.98	4	Filtered		IT
RD-34A		Split	12/05/91	Gross alpha	2 U	---	2	Filtered		CEP
RD-34A		Primary	12/05/91	Gross beta	15.9	3.56	4	Filtered		IT
RD-34A		Split	12/05/91	Gross beta	3 U	---	3	Filtered		CEP
RD-34A		Primary	03/10/92	Gross alpha	6	3	2	Filtered		CEP
RD-34A		Split	03/10/92	Gross alpha	28	11	6	Filtered		TEL
RD-34A		Primary	03/10/92	Gross beta	5	3	3	Filtered		CEP
RD-34A		Split	03/10/92	Gross beta	22	4	3	Filtered		TEL
RD-34A		Primary	06/08/92	Gross alpha	6	2	2	Filtered		CEP
RD-34A		Primary	06/08/92	Gross beta	-2 U	3	3	Filtered		CEP
RD-34A		Primary	09/13/92	Gross alpha	6	3	2	Filtered		CEP

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-34A		Reanalysis of Primary	09/13/92	Gross alpha	6	3	2	Filtered		CEP
RD-34A		Split	09/13/92	Gross alpha	21	14	---	Filtered		BL
RD-34A		Reanalysis of Split	09/13/92	Gross alpha	33	12	---	Filtered		BL
RD-34A		Primary	09/13/92	Gross beta	8	4	3	Filtered		CEP
RD-34A		Reanalysis of Primary	09/13/92	Gross beta	19	3	3	Filtered		CEP
RD-34A		Split	09/13/92	Gross beta	28	8	---	Filtered		BL
RD-34A		Reanalysis of Split	09/13/92	Gross beta	14	8	---	Filtered		BL
RD-34A		Primary	12/05/92	Gross alpha	7	3	2	Filtered		CEP
RD-34A		Split	12/05/92	Gross alpha	31	11	---	Filtered		BL
RD-34A		Reanalysis of Split	12/05/92	Gross alpha	16	11	---	Filtered		BL
RD-34A		Primary	12/05/92	Gross beta	6	3	3	Filtered		CEP
RD-34A		Split	12/05/92	Gross beta	18	6	---	Filtered		BL
RD-34A		Reanalysis of Split	12/05/92	Gross beta	21	7	---	Filtered		BL
RD-34A		Primary	03/09/93	Gross alpha	11	5	2	Filtered		CEP
RD-34A		Primary	03/09/93	Gross beta	11	4	3	Filtered		CEP
RD-34A		Primary	06/22/93	Gross alpha	7	4	2	Filtered		CEP
RD-34A		Primary	06/22/93	Gross beta	20	4	3	Filtered		CEP
RD-34A		Primary	08/24/93	Gross alpha	7	3	2	Filtered		CEP
RD-34A		Primary	08/24/93	Gross beta	11	3	3	Filtered		CEP
RD-34A		Primary	11/18/93	Gross alpha	12.5	7	7.9	Filtered		CEP
RD-34A		Primary	11/18/93	Gross beta	8.1 U	5.5	8.7	Filtered		CEP
RD-34A		Primary	02/26/94	Gross alpha	18.8	8.2	8.6	Filtered		LAS
RD-34A		Reanalysis of Primary	02/26/94	Gross alpha	10.4	6.3	7.8	Filtered		LAS
RD-34A		Primary	02/26/94	Gross beta	8.7	5.3	8.3	Filtered		LAS
RD-34A		Reanalysis of Primary	02/26/94	Gross beta	21.5	6.6	9.2	Filtered		LAS
RD-34A		Primary	08/09/94	Gross alpha	14.6	7	7.7	Filtered		LAS
RD-34A		Primary	08/09/94	Gross beta	9.2	4.3	6.4	Filtered		LAS
RD-34A		Primary	02/07/95	Gross alpha	10.8	7.3	8.8	Filtered		LAS
RD-34A		Primary	02/07/95	Gross beta	13.5	7.1	11	Filtered		LAS
RD-34A		Primary	08/09/95	Gross alpha	15.5	7	7.2	Filtered		LAS
RD-34A		Primary	08/09/95	Gross beta	12.8	5.1	7.5	Filtered		LAS
RD-34A		Primary	02/19/96	Gross alpha	13.4	6.2	7.2	Filtered		LAS
RD-34A		Primary	02/19/96	Gross beta	9.9	3.6	5.2	Filtered		LAS
RD-34A		Primary	08/18/96	Gross alpha	4.5 U	5.9	9.9	Filtered		LAS
RD-34A		Primary	08/18/96	Gross beta	15.5	5.7	8.3	Filtered		LAS
RD-34A		Primary	02/07/97	Gross alpha	17	7.9	9.6	Filtered		LAS
RD-34A		Primary	02/07/97	Gross beta	9.7	4.8	7.2	Filtered		LAS
RD-34A		Primary	05/27/98	Gross alpha	21.5	5.2	3.49	Filtered		TN
RD-34A		Primary	05/27/98	Gross beta	10.5	2	2.38	Filtered		TN
RD-34A		Primary	08/18/98	Gross alpha	5.97	1.5	1.2	Filtered		TN

See last page of table for notes and abbreviations.

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RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-34A		Primary	08/18/98	Gross beta	10.3	1.7	1.93	Filtered		TN
RD-34A		Primary	05/09/01	Gross alpha	7.97	3.2	2.87	Filtered		ES
RD-34A		Primary	05/09/01	Gross beta	14.8	2	2.15	Filtered		ES
RD-34A		Primary	05/16/03	Gross alpha	18.5	7	5.31	Filtered		ES
RD-34A		Primary	05/16/03	Gross beta	12.1	5.1	6.32	Filtered		ES
RD-34A		Primary	05/17/04	Gross alpha	11	7.1	8.68	Filtered		ES
RD-34A		Primary	05/17/04	Gross beta	12.2	7.2	10.2	Filtered		ES
RD-34A		Primary	08/09/04	Gross alpha	0.831 U	3.2	5.56	Filtered		ES
RD-34A		Primary	08/09/04	Gross beta	7.6	4.7	6.71	Filtered		ES
RD-34A		Primary	02/17/05	Gross alpha	9.61	4.9	4.59	Filtered		ES
RD-34A		Primary	02/17/05	Gross beta	11.6	4.6	5.84	Filtered		ES
RD-34A		Primary	08/25/05	Gross alpha	7.81	2.7	2.2	Filtered		ES
RD-34A		Primary	08/25/05	Gross beta	11.3	3	2.54	Filtered		ES
RD-34A		Primary	02/21/06	Gross alpha	8.73	4.7	5.62	Filtered		ES
RD-34A		Primary	02/21/06	Gross beta	5.94	2.8	3.84	Filtered		ES
RD-34A		Primary	11/16/06	Gross alpha	13.1	4	2.71	Filtered		ES
RD-34A		Primary	11/16/06	Gross beta	11	4.3	5.85	Filtered		ES
RD-34A		Primary	02/15/07	Gross alpha	20.1	6.3	4.71	Filtered		ES
RD-34A		Primary	02/15/07	Gross beta	14.7	4.8	5.8	Filtered		ES
RD-34A		Primary	08/15/07	Gross alpha	23.2	7.1	5.27	Filtered		ES
RD-34A		Primary	08/15/07	Gross beta	13.2	4	4.5	Filtered		ES
RD-34A		Primary	02/06/08	Gross alpha	23.5	6.9	3.98	Filtered		ES
RD-34A		Primary	02/06/08	Gross beta	11.4	4.3	5.39	Filtered		ES
RD-34A		Primary	08/07/08	Gross alpha	16.4	5.5	3.43	Filtered		ES
RD-34A		Primary	08/07/08	Gross beta	19	3.8	4.54	Filtered		ES
RD-34B		Primary	12/05/91	Gross alpha	3.76 U	2.43	4	Filtered		IT
RD-34B		Primary	12/05/91	Gross beta	5.52	1.86	4	Filtered		IT
RD-34B		Primary	03/10/92	Gross alpha	2 U	---	2	Filtered		CEP
RD-34B		Split	03/10/92	Gross alpha	6 U	---	6	Filtered		TEL
RD-34B		Primary	03/10/92	Gross beta	4	3	3	Filtered		CEP
RD-34B		Split	03/10/92	Gross beta	9.5	3.1	3	Filtered		TEL
RD-34B		Primary	06/08/92	Gross alpha	1 U	2	2	Filtered		CEP
RD-34B		Primary	06/08/92	Gross beta	-2 U	3	3	Filtered		CEP
RD-34B		Primary	09/13/92	Gross alpha	3	2	2	Filtered		CEP
RD-34B		Split	09/13/92	Gross alpha	9.7	6.8	---	Filtered		BL
RD-34B		Primary	09/13/92	Gross beta	8	4	3	Filtered		CEP
RD-34B		Split	09/13/92	Gross beta	17	7	---	Filtered		BL
RD-34B		Primary	12/05/92	Gross alpha	2 U	---	2	Filtered		CEP
RD-34B		Primary	12/05/92	Gross beta	4	3	3	Filtered		CEP
RD-34B		Primary	03/09/93	Gross alpha	9	4	2	Filtered		CEP
RD-34B		Primary	03/09/93	Gross beta	13	4	3	Filtered		CEP
RD-34B		Primary	06/23/93	Gross alpha	3	2	2	Filtered	High statistics due to large amount of solids.	CEP
RD-34B		Primary	06/23/93	Gross beta	13	4	3	Filtered		CEP
RD-34B		Primary	08/24/93	Gross alpha	2 U	---	2	Filtered		CEP
RD-34B		Primary	08/24/93	Gross beta	6	3	3	Filtered		CEP

See last page of table for notes and abbreviations.

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RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-34B		Primary	11/18/93	Gross alpha	0.2 U	2.3	5.1	Filtered		LAS
RD-34B		Primary	11/18/93	Gross beta	8.5	3.8	5.7	Filtered		LAS
RD-34B		Primary	02/26/94	Gross alpha	1 U	2.5	4.7	Filtered		LAS
RD-34B		Primary	02/26/94	Gross beta	5.8	2.6	3.9	Filtered		LAS
RD-34B		Primary	08/09/94	Gross alpha	4.9 U	3.7	5.1	Filtered		LAS
RD-34B		Primary	08/09/94	Gross beta	7	3.4	5.2	Filtered		LAS
RD-34B		Primary	02/07/95	Gross alpha	0.5 U	2.3	4.6	Filtered		LAS
RD-34B		Primary	02/07/95	Gross beta	5.4	2.8	4.3	Filtered		LAS
RD-34B		Primary	08/09/95	Gross alpha	2.7 U	3.1	5.1	Filtered		LAS
RD-34B		Primary	08/09/95	Gross beta	11.2	3.7	5.3	Filtered		LAS
RD-34B		Primary	02/19/96	Gross alpha	5.2	3.5	4.8	Filtered		LAS
RD-34B		Primary	02/19/96	Gross beta	6.6	2.4	3.5	Filtered		LAS
RD-34B		Primary	08/18/96	Gross alpha	2.3 U	3.3	5.5	Filtered		LAS
RD-34B		Primary	08/18/96	Gross beta	6	3.3	5.1	Filtered		LAS
RD-34B		Primary	02/07/97	Gross alpha	5.4	3.5	4.6	Filtered		LAS
RD-34B		Primary	02/07/97	Gross beta	6.3	2.7	4	Filtered		LAS
RD-34B		Primary	08/21/97	Gross alpha	9.3	4.6	5.3	Filtered		LAS
RD-34B		Primary	08/21/97	Gross beta	6.4	3.3	4.9	Filtered		LAS
RD-34B		Primary	05/27/98	Gross alpha	12.8	4.1	3.78	Filtered		TN
RD-34B		Primary	05/27/98	Gross beta	13.2	2	2.11	Filtered		TN
RD-34B		Primary	08/18/98	Gross alpha	1.26	0.76	0.87	Filtered		TN
RD-34B		Primary	08/18/98	Gross beta	5.29	1.7	2.5	Filtered		TN
RD-34B		Primary	02/04/99	Gross alpha	7.65	3.2	3.25	Filtered		TN
RD-34B		Primary	02/04/99	Gross beta	8.57	2.3	3.08	Filtered		TN
RD-34B		Primary	02/05/00	Gross alpha	5.25	1.6	1.56	Filtered		TR
RD-34B		Primary	02/05/00	Gross beta	7.99	2	3.01	Filtered		TR
RD-34B		Primary	02/16/01	Gross alpha	3.85	2.3	2.91	Filtered		ES
RD-34B		Primary	02/16/01	Gross beta	5.59	1.9	2.81	Filtered		ES
RD-34B		Primary	02/15/02	Gross alpha	3.8	2.64	2.82	Filtered		DL
RD-34B		Primary	02/15/02	Gross beta	7.89	1.79	3.36	Filtered		DL
RD-34B		Primary	02/06/03	Gross alpha	2.37 U	2	2.75	Filtered		ES
RD-34B		Primary	02/06/03	Gross beta	6.78	2.3	3.32	Filtered		ES
RD-34B		Primary	02/24/04	Gross alpha	2.31 U	2.2	3.05	Filtered		ES
RD-34B		Primary	02/24/04	Gross beta	3.65 U	3.8	5.96	Filtered		ES
RD-34B		Primary	08/09/04	Gross alpha	-0.066 U	1.5	2.83	Filtered		ES
RD-34B		Primary	08/09/04	Gross beta	5.23	2.8	3.89	Filtered		ES
RD-34B		Primary	02/15/05	Gross alpha	5.47	2.9	3.13	Filtered		ES
RD-34B		Primary	02/15/05	Gross beta	8.57	2.7	2.81	Filtered		ES
RD-34B		Primary	08/23/05	Gross alpha	2.98 J	1.2	0.889	Filtered		ES
RD-34B		Primary	08/23/05	Gross beta	6.84	1.8	1.59	Filtered		ES
RD-34B		Primary	02/17/06	Gross alpha	3.86	2.6	3.2	Filtered		ES
RD-34B		Primary	02/17/06	Gross beta	8.57	2.5	2.18	Filtered		ES
RD-34B		Primary	08/09/06	Gross alpha	-0.562 U	2.4	4.39	Filtered		ES
RD-34B		Primary	08/09/06	Gross beta	7.86	2.5	3.04	Filtered		ES
RD-34B		Primary	08/14/07	Gross alpha	2.05 U	2.7	4.26	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-34B		Primary	08/14/07	Gross beta	3.79 J	2.4	3.64	Filtered		ES
RD-34B		Primary	02/06/08	Gross alpha	6.8	2.8	2.29	Filtered		ES
RD-34B		Primary	02/06/08	Gross beta	6.9	2.4	3.03	Filtered		ES
RD-34B		Primary	08/07/08	Gross alpha	5.12	2.5	2.34	Filtered		ES
RD-34B		Primary	08/07/08	Gross beta	8.01	2.2	2.92	Filtered		ES
RD-34C		Primary	12/06/91	Gross alpha	1.01 U	1.18	4	Filtered		IT
RD-34C		Primary	12/06/91	Gross beta	3.76 U	1.34	4	Filtered		IT
RD-34C		Primary	03/10/92	Gross alpha	2 U	---	2	Filtered		CEP
RD-34C		Split	03/10/92	Gross alpha	4 U	---	4	Filtered		TEL
RD-34C		Primary	03/10/92	Gross beta	6	3	3	Filtered		CEP
RD-34C		Split	03/10/92	Gross beta	6.7	2.6	3	Filtered		TEL
RD-34C		Primary	06/08/92	Gross alpha	1 U	1	2	Filtered		CEP
RD-34C		Primary	06/08/92	Gross beta	-4 U	3	3	Filtered		CEP
RD-34C		Primary	09/13/92	Gross alpha	0.9 U	1.9	2	Filtered		CEP
RD-34C		Split	09/13/92	Gross alpha	2.9 U	5.2	---	Filtered		BL
RD-34C		Primary	09/13/92	Gross beta	6	4	3	Filtered		CEP
RD-34C		Split	09/13/92	Gross beta	15	5	---	Filtered		BL
RD-34C		Primary	12/05/92	Gross alpha	2 U	---	2	Filtered		CEP
RD-34C		Primary	12/05/92	Gross beta	3 U	---	3	Filtered		CEP
RD-34C		Primary	03/09/93	Gross alpha	5	3	2	Filtered		CEP
RD-34C		Primary	03/09/93	Gross beta	7	4	3	Filtered		CEP
RD-34C		Primary	06/24/93	Gross alpha	2 U	---	2	Filtered		CEP
RD-34C		Primary	06/24/93	Gross beta	3 U	---	3	Filtered		CEP
RD-34C		Primary	08/24/93	Gross alpha	2 U	---	2	Filtered		CEP
RD-34C		Primary	08/24/93	Gross beta	3 U	---	3	Filtered		CEP
RD-34C		Primary	11/06/93	Gross alpha	1.6 U	1.9	3.2	Filtered		LAS
RD-34C		Primary	11/06/93	Gross beta	3.7	2.1	3.3	Filtered		LAS
RD-34C		Primary	02/26/94	Gross alpha	1.6 U	2.1	3.6	Filtered		LAS
RD-34C		Primary	02/26/94	Gross beta	5.2	2.2	3.4	Filtered		LAS
RD-34C		Primary	08/09/94	Gross alpha	2.8 U	2.3	3.4	Filtered		LAS
RD-34C		Primary	08/09/94	Gross beta	5.3	2	3	Filtered		LAS
RD-34C		Primary	02/07/95	Gross alpha	2.7 U	2.4	3.5	Filtered		LAS
RD-34C		Primary	02/07/95	Gross beta	4.2	2.4	3.8	Filtered		LAS
RD-34C		Primary	08/10/95	Gross alpha	2.3 U	2.1	3.2	Filtered		LAS
RD-34C		Primary	08/10/95	Gross beta	3.7	2	3	Filtered		LAS
RD-34C		Primary	02/19/96	Gross alpha	2.3 U	2.2	3.3	Filtered		LAS
RD-34C		Primary	02/19/96	Gross beta	4	1.5	2.2	Filtered		LAS
RD-34C		Primary	08/19/96	Gross alpha	0.5 U	1.9	3.8	Filtered		LAS
RD-34C		Primary	08/19/96	Gross beta	4.9	2.2	3.3	Filtered		LAS
RD-34C		Primary	02/07/97	Gross alpha	3.4	2.2	2.8	Filtered		LAS
RD-34C		Primary	02/07/97	Gross beta	5	1.7	2.4	Filtered		LAS
RD-34C		Primary	08/21/97	Gross alpha	4.2	2.7	3.6	Filtered		LAS
RD-34C		Primary	08/21/97	Gross beta	7.3	2.6	3.7	Filtered		LAS
RD-34C		Primary	05/27/98	Gross alpha	2.4	1.6	2.16	Filtered		TN
RD-34C		Primary	05/27/98	Gross beta	4.67	1.4	1.9	Filtered		TN

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-34C		Primary	08/17/98	Gross alpha	1.08	0.68	0.791	Filtered		TN
RD-34C		Primary	08/17/98	Gross beta	3.73	1.4	2.02	Filtered		TN
RD-34C		Primary	02/04/99	Gross alpha	1.59 U	1.6	2.48	Filtered		TN
RD-34C		Primary	02/04/99	Gross beta	2.72 U	2.5	4	Filtered		TN
RD-34C		Primary	02/05/00	Gross alpha	0.866 U	1.5	2.54	Filtered		TR
RD-34C		Primary	02/05/00	Gross beta	4.64	2.8	4.29	Filtered		TR
RD-34C		Primary	02/16/01	Gross alpha	2.21	1.6	1.92	Filtered		ES
RD-34C		Primary	02/16/01	Gross beta	9.8	1.9	2.48	Filtered		ES
RD-34C		Primary	02/14/02	Gross alpha	2.17 U	1.86	3.3	Filtered		DL
RD-34C		Primary	02/14/02	Gross beta	4.4	1.53	2.3	Filtered		DL
RD-34C		Primary	02/06/03	Gross alpha	1.84 J	1.2	1.48	Filtered		ES
RD-34C		Primary	02/06/03	Gross beta	3.28 J	1.7	2.7	Filtered		ES
RD-34C		Primary	02/24/04	Gross alpha	0.582 U	1.7	3.06	Filtered		ES
RD-34C		Primary	02/24/04	Gross beta	5.18	3	4.22	Filtered		ES
RD-34C		Primary	08/09/04	Gross alpha	2.02 U	1.9	2.81	Filtered		ES
RD-34C		Split	08/09/04	Gross alpha	0.257 U	1.15	3.09	Filtered		STL
RD-34C		Primary	08/09/04	Gross beta	4.66	2.7	3.87	Filtered		ES
RD-34C		Split	08/09/04	Gross beta	6.19	2.11	3.16	Filtered		STL
RD-34C		Primary	02/15/05	Gross alpha	2.07 J	1.4	1.46	Filtered		ES
RD-34C		Primary	02/15/05	Gross beta	4.42	1.7	2.22	Filtered		ES
RD-34C		Primary	08/23/05	Gross alpha	0.573 U	1.4	2.5	Filtered		ES
RD-34C		Primary	08/23/05	Gross beta	3.79 J	1.8	2.28	Filtered		ES
RD-34C		Primary	02/21/06	Gross alpha	0.228 U	1.9	3.45	Filtered		ES
RD-34C		Primary	02/21/06	Gross beta	5.86	2.5	3.37	Filtered		ES
RD-34C		Split	02/21/06	Gross alpha	0.605 U	0.667	1.18	Filtered		STL
RD-34C		Split	02/21/06	Gross beta	5.3	1.44	2.05	Filtered		STL
RD-34C		Primary	08/09/06	Gross alpha	0.38 U	0.77	1.27	Filtered		ES
RD-34C		Primary	08/09/06	Gross beta	3.35 J	1.6	2.31	Filtered		ES
RD-34C		Primary	02/07/07	Gross alpha	1.36 U	1.9	2.98	Filtered		ES
RD-34C		Primary	02/07/07	Gross beta	4.17	2.2	2.99	Filtered		ES
RD-34C		Primary	08/08/07	Gross alpha	-0.962 U	1.5	2.82	Filtered		ES
RD-34C		Primary	08/08/07	Gross beta	4.98	1.5	1.66	Filtered		ES
RD-34C		Primary	02/12/08	Gross alpha	1.04 U	1	1.52	Filtered		ES
RD-34C		Primary	02/12/08	Gross beta	4.06	1.1	1.56	Filtered		ES
RD-34C		Primary	08/07/08	Gross alpha	4.23	2.9	4.17	Filtered		ES
RD-34C		Primary	08/07/08	Gross beta	4.45	1.2	1.65	Filtered		ES
RD-35B		Primary	05/07/99	Gross alpha	22.8	4.4	2.29	Filtered		TN
RD-35B		Primary	05/07/99	Gross beta	12.6	2	2.27	Filtered		TN
RD-35B		Primary	08/18/99	Gross alpha	1.56	1.2	1.46	Filtered		TN
RD-35B		Primary	08/18/99	Gross beta	4.05	1.6	2.45	Filtered		TN
RD-36D		Primary	11/13/97	Gross alpha	-1.6 U	2.2	5.9	Filtered		LAS
RD-36D		Primary	11/13/97	Gross beta	5.3 U	3.4	5.5	Filtered		LAS
RD-38B		Primary	02/17/99	Gross alpha	1.52 U	2	3.09	Filtered		TN
RD-38B		Primary	02/17/99	Gross beta	4.98	1.6	2.17	Filtered		TN

See last page of table for notes and abbreviations.

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RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-45C		Primary	10/06/94	Gross alpha	2.6	1.9	---	Filtered		LAS
RD-45C		Primary	10/06/94	Gross beta	4.4	2	---	Filtered		LAS
RD-46B		Primary	02/15/99	Gross alpha	3.26	2	2.36	Filtered		TN
RD-46B		Primary	02/15/99	Gross beta	3.74	1.6	2.39	Filtered		TN
RD-50		Primary	05/05/94	Gross alpha	24.9	6.9	4.6	Filtered		LAS
RD-50		Reanalysis of Primary	05/05/94	Gross alpha	9.6	4.7	4.5	Filtered		LAS
RD-50		Primary	05/05/94	Gross beta	10.2	3.9	5.6	Filtered		LAS
RD-50		Reanalysis of Primary	05/05/94	Gross beta	6	3.6	5.5	Filtered		LAS
RD-50		Primary	05/19/95	Gross alpha	11.8	5.5	5.7	Filtered		LAS
RD-50		Primary	05/19/95	Gross beta	5.4 U	3.9	6.2	Filtered		LAS
RD-50		Primary	05/14/96	Gross alpha	31.9	6.6	4.2	Filtered		LAS
RD-50		Primary	05/14/96	Gross beta	10.7	2.6	3.2	Filtered		LAS
RD-50		Primary	05/05/97	Gross alpha	7	3.6	3.9	Filtered		LAS
RD-50		Primary	05/05/97	Gross beta	7.5	2.7	3.9	Filtered		LAS
RD-50		Primary	05/28/98	Gross alpha	8.45	4.1	4.57	Filtered		TN
RD-50		Primary	05/28/98	Gross beta	5.92	1.7	2.39	Filtered		TN
RD-51C		Primary	12/14/91	Gross alpha	1.18 U	2.3	4	Filtered		IT
RD-51C		Primary	12/14/91	Gross beta	2.93 U	1.91	4	Filtered		IT
RD-51C		Primary	03/06/92	Gross alpha	2 U	---	2	Filtered		CEP
RD-51C		Primary	03/06/92	Gross beta	3 U	---	3	Filtered		CEP
RD-54A		Primary	09/12/93	Gross alpha	2 U	---	2	Filtered		CEP
RD-54A		Primary	09/12/93	Gross beta	3 U	---	3	Filtered		CEP
RD-54A		Primary	09/29/93	Gross alpha	2 U	---	2	Filtered		CEP
RD-54A		Primary	09/29/93	Gross beta	3 U	---	3	Filtered		CEP
RD-54A		Primary	05/08/94	Gross alpha	5	3.6	4.5	Filtered		LAS
RD-54A		Primary	05/08/94	Gross beta	7.1	3.9	6	Filtered		LAS
RD-54A		Primary	08/09/94	Gross alpha	1.4 U	2.6	4.6	Filtered		LAS
RD-54A		Primary	08/09/94	Gross beta	6.2	2.8	4.3	Filtered		LAS
RD-54A		Primary	08/03/95	Gross alpha	4.9	2.5	2.8	Filtered		LAS
RD-54A		Primary	08/03/95	Gross beta	6.6	2	2.7	Filtered		LAS
RD-54A		Primary	05/16/96	Gross alpha	11	5.3	5.5	Filtered		LAS
RD-54A		Primary	05/16/96	Gross beta	7.4	3.8	5.8	Filtered		LAS
RD-54A		Primary	08/23/96	Gross alpha	2.5 U	3.7	6.3	Filtered		LAS
RD-54A		Primary	08/23/96	Gross beta	1.5 U	3.3	5.6	Filtered		LAS
RD-54A		Primary	05/05/97	Gross alpha	0.5 U	1.9	3.6	Filtered		LAS
RD-54A		Primary	05/05/97	Gross beta	1.4 U	2	3.4	Filtered		LAS
RD-54A		Primary	08/22/97	Gross alpha	16.9	5.3	4.5	Filtered		LAS
RD-54A		Primary	08/22/97	Gross beta	4.7	2.7	4.2	Filtered		LAS
RD-54A		Primary	02/08/98	Gross alpha	1.56 U	1.3	1.8	Filtered		TN
RD-54A		Primary	02/08/98	Gross beta	4.49	1.5	2.07	Filtered		TN
RD-54A		Primary	08/07/98	Gross alpha	0.051 U	7.9	16.1	Filtered		TN
RD-54A		Primary	08/07/98	Gross beta	4.83 U	17	28.6	Filtered		TN
RD-54A		Primary	02/08/99	Gross alpha	22.2	12	9.94	Filtered		TN

See last page of table for notes and abbreviations.

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RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-54A		Primary	02/08/99	Gross beta	58	7.4	5.62	Filtered		TN
RD-54A		Primary	03/15/00	Gross alpha	7.08	2.9	2.89	Filtered		TR
RD-54A		Primary	03/15/00	Gross beta	6.84	2.3	3.25	Filtered		TR
RD-54A		Primary	10/26/01	Gross alpha	20.14	4.71	2.56	Filtered		DL
RD-54A		Primary	10/26/01	Gross beta	6.03	1.17	2.9	Filtered		DL
RD-54A		Primary	02/27/02	Gross alpha	7.8	2.71	3.2	Filtered		DL
RD-54A		Primary	02/27/02	Gross beta	1.82 U	0.7	2.14	Filtered		DL
RD-54A	Z2	Primary	02/18/03	Gross alpha	5.39	1.8	2.06	Filtered		ES
RD-54A	Z2	Primary	02/18/03	Gross beta	9.08	2.6	4.04	Filtered		ES
RD-54A	Z2	Primary	11/03/04	Gross alpha	2.34 U	2.1	2.35	Filtered		ES
RD-54A	Z2	Primary	11/03/04	Gross beta	9.87	3	2.85	Filtered		ES
RD-54A	Z2	Primary	02/16/05	Gross alpha	9.98	3.6	1.88	Filtered		ES
RD-54A	Z2	Primary	02/16/05	Gross beta	6.14	2.5	3.06	Filtered		ES
RD-54A	Z2	Primary	08/31/05	Gross alpha	16.3	4.9	1.87	Filtered		ES
RD-54A	Z2	Primary	08/31/05	Gross beta	8.33	2.8	2.88	Filtered		ES
RD-54A	Z2	Primary	02/16/06	Gross alpha	7.44	3.4	3.68	Filtered		ES
RD-54A	Z2	Primary	02/16/06	Gross beta	3.75 U	2.8	4.08	Filtered		ES
RD-54A	Z2	Primary	08/17/06	Gross alpha	12.1	4.2	4.08	Filtered		ES
RD-54A	Z2	Primary	08/17/06	Gross beta	10.8	3.1	3.1	Filtered		ES
RD-54A	Z2	Primary	02/07/07	Gross alpha	9.54	5.4	5.79	Filtered		ES
RD-54A	Z2	Primary	02/07/07	Gross beta	7.14	4	5.5	Filtered		ES
RD-54A	Z2	Primary	08/10/07	Gross alpha	20	8.8	8.03	Filtered		ES
RD-54A	Z2	Primary	08/10/07	Gross beta	12.9	4.4	4.79	Filtered		ES
RD-54A	Z2	Primary	02/06/08	Gross alpha	11.2	3.5	2.34	Filtered		ES
RD-54A	Z2	Primary	02/06/08	Gross beta	9.02	2.8	3.15	Filtered		ES
RD-54A	Z2	Primary	08/07/08	Gross alpha	9.3	3.2	2.41	Filtered		ES
RD-54A	Z2	Primary	08/07/08	Gross beta	7.06	2	2.59	Filtered		ES
RD-54B		Primary	09/12/93	Gross alpha	5	2	2	Filtered		CEP
RD-54B		Primary	09/12/93	Gross beta	13	4	3	Filtered		CEP
RD-54B		Primary	09/29/93	Gross alpha	2 U	---	2	Filtered		CEP
RD-54B		Primary	09/29/93	Gross beta	4	3	3	Filtered		CEP
RD-54B		Primary	05/08/94	Gross alpha	4.7 U	5.2	8.3	Filtered		LAS
RD-54B		Primary	05/08/94	Gross beta	9.5	5.1	8	Filtered		LAS
RD-54B		Primary	08/08/94	Gross alpha	2.5 U	4.2	7.3	Filtered		LAS
RD-54B		Primary	08/08/94	Gross beta	5.9 U	4.1	6.6	Filtered		LAS
RD-54B		Primary	08/30/95	Gross alpha	4.6 U	5	7.9	Filtered		LAS
RD-54B		Primary	08/30/95	Gross beta	4.6 U	4.3	7.1	Filtered		LAS
RD-54B		Primary	05/16/96	Gross alpha	5.8 U	5.6	8.6	Filtered		LAS
RD-54B		Primary	05/16/96	Gross beta	10.9	5.6	8.6	Filtered		LAS
RD-54B		Primary	08/23/96	Gross alpha	0.8 U	3.4	6.6	Filtered		LAS
RD-54B		Primary	08/23/96	Gross beta	7.5	3.7	5.6	Filtered		LAS
RD-54B		Primary	08/22/97	Gross alpha	5.9	4	5.6	Filtered		LAS
RD-54B		Primary	08/22/97	Gross beta	5.7	3	4.5	Filtered		LAS
RD-54B		Primary	02/08/98	Gross alpha	1.42 U	1.2	1.54	Filtered		TN
RD-54B		Primary	02/08/98	Gross beta	7	1.7	2.21	Filtered		TN

See last page of table for notes and abbreviations.

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RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-54B		Primary	08/07/98	Gross alpha	-1.66 U	4.2	11.4	Filtered		TN
RD-54B		Primary	08/07/98	Gross beta	-14 U	22	37.7	Filtered		TN
RD-54B		Primary	02/08/99	Gross alpha	1.44 U	3.7	6.84	Filtered		TN
RD-54B		Primary	02/08/99	Gross beta	17.2	4.4	4.7	Filtered		TN
RD-54B		Primary	03/15/00	Gross alpha	1.05 U	1.2	1.79	Filtered		TR
RD-54B		Primary	03/15/00	Gross beta	0.622 U	2.2	3.75	Filtered		TR
RD-54B		Primary	10/25/01	Gross alpha	7.4	3.3	2.45	Filtered		DL
RD-54B		Primary	10/25/01	Gross beta	2.88	1.14	2.13	Filtered		DL
RD-54B		Primary	02/27/02	Gross alpha	2.59	1.9	1.87	Filtered		DL
RD-54B		Primary	02/27/02	Gross beta	4.4	1.5	2.52	Filtered		DL
RD-54B		Primary	02/26/03	Gross alpha	5.38	1.8	1.8	Filtered		ES
RD-54B		Primary	02/26/03	Gross beta	7.36	2.2	3.34	Filtered		ES
RD-54B		Primary	02/16/05	Gross alpha	6.58	4.1	4.67	Filtered		ES
RD-54B		Primary	02/16/05	Gross beta	9.24	4.1	5.36	Filtered		ES
RD-54B		Primary	08/22/05	Gross alpha	0.719 U	2.2	3.05	Filtered		ES
RD-54B		Primary	08/22/05	Gross beta	4.86	2.2	3.22	Filtered		ES
RD-54B		Primary	02/20/06	Gross alpha	3.94 U	3.5	4.64	Filtered		ES
RD-54B		Primary	02/20/06	Gross beta	8.64	3.2	3.67	Filtered		ES
RD-54B		Primary	08/23/06	Gross alpha	0.082 U	1.9	3.38	Filtered		ES
RD-54B		Primary	08/23/06	Gross beta	5.48 U	3.5	5.49	Filtered		ES
RD-54B		Primary	02/12/07	Gross alpha	1.93 U	2	3.06	Filtered		ES
RD-54B		Primary	02/12/07	Gross beta	6.13	2.4	3.26	Filtered		ES
RD-54B		Primary	08/14/07	Gross alpha	3.48 U	3.7	5.55	Filtered		ES
RD-54B		Primary	08/14/07	Gross beta	5.67	2.8	4.09	Filtered		ES
RD-54B		Primary	02/14/08	Gross alpha	5.64	2.8	2.71	Filtered		ES
RD-54B		Primary	02/14/08	Gross beta	5.93	2.2	3.24	Filtered		ES
RD-54B		Primary	11/07/08	Gross alpha	1.54 U	2.7	4.34	Filtered		ES
RD-54B		Primary	11/07/08	Gross alpha	6.34 U	5	7.27	Unfiltered		ES
RD-54B		Primary	11/07/08	Gross beta	6.44	1.9	2.58	Filtered		ES
RD-54B		Primary	11/07/08	Gross beta	6.61	1.9	2.65	Unfiltered		ES
RD-54C		Primary	09/11/93	Gross alpha	6	3	2	Filtered		CEP
RD-54C		Primary	09/11/93	Gross beta	10	3	3	Filtered		CEP
RD-54C		Primary	09/29/93	Gross alpha	2 U	---	2	Filtered		CEP
RD-54C		Primary	09/29/93	Gross beta	3 U	---	3	Filtered		CEP
RD-54C		Primary	05/08/94	Gross alpha	1.9 U	1.8	2.7	Filtered		LAS
RD-54C		Primary	05/08/94	Gross beta	2.9	1.7	2.6	Filtered		LAS
RD-54C		Primary	08/08/94	Gross alpha	0.8 U	1.5	2.6	Filtered		LAS
RD-54C		Primary	08/08/94	Gross beta	2.7	1.4	2.2	Filtered		LAS
RD-54C		Primary	08/30/95	Gross alpha	1.3 U	1.7	2.8	Filtered		LAS
RD-54C		Primary	08/30/95	Gross beta	4.3	1.6	2.4	Filtered		LAS
RD-54C		Primary	05/16/96	Gross alpha	3.4	1.4	1.3	Filtered		LAS
RD-54C		Primary	05/16/96	Gross beta	4	1.5	2.1	Filtered		LAS
RD-54C		Primary	08/23/96	Gross alpha	0.7 U	1.4	2.6	Filtered		LAS
RD-54C		Primary	08/23/96	Gross beta	3.2	1.5	2.3	Filtered		LAS
RD-54C		Primary	05/05/97	Gross alpha	1.4 U	1.4	2.1	Filtered		LAS

See last page of table for notes and abbreviations.

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RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-54C		Primary	05/05/97	Gross beta	2 U	1.4	2.2	Filtered		LAS
RD-54C		Primary	08/24/97	Gross alpha	-0.18 U	0.74	1.7	Filtered		LAS
RD-54C		Primary	08/24/97	Gross beta	1.4 U	1.3	2.1	Filtered		LAS
RD-54C		Primary	02/08/98	Gross alpha	0.349 U	0.63	1.1	Filtered		TN
RD-54C		Primary	02/08/98	Gross beta	2.36	1.3	2	Filtered		TN
RD-54C		Primary	08/07/98	Gross alpha	-1.41 U	6.2	14.2	Filtered		TN
RD-54C		Primary	08/07/98	Gross beta	-6.31 U	16	28.1	Filtered		TN
RD-54C		Primary	02/09/99	Gross alpha	-0.998 U	1.4	4.91	Filtered		TN
RD-54C		Primary	02/09/99	Gross beta	7.69	3.3	4.41	Filtered		TN
RD-54C		Primary	03/15/00	Gross alpha	0.652 U	1.3	2.35	Filtered		TR
RD-54C		Primary	03/15/00	Gross beta	4.04	2.5	3.84	Filtered		TR
RD-54C		Primary	11/02/01	Gross alpha	2.23	1.54	1.04	Filtered		DL
RD-54C		Primary	11/02/01	Gross beta	2.07	1.1	1.64	Filtered		DL
RD-54C		Primary	02/27/02	Gross alpha	1.77	1.38	1.62	Filtered		DL
RD-54C		Primary	02/27/02	Gross beta	1.27 U	1.01	1.4	Filtered		DL
RD-54C		Primary	02/26/03	Gross alpha	1.9 J	1.1	1.3	Filtered		ES
RD-54C		Primary	02/26/03	Gross beta	5.32	1.8	2.82	Filtered		ES
RD-54C		Primary	11/05/04	Gross alpha	0.771 U	2.5	3.7	Filtered		ES
RD-54C		Primary	11/05/04	Gross beta	9.57	3.6	4.26	Filtered		ES
RD-54C		Primary	02/17/05	Gross alpha	1.18 U	1.2	1.8	Filtered		ES
RD-54C		Primary	02/17/05	Gross beta	-0.849 U	1.7	3.02	Filtered		ES
RD-54C		Split	02/17/05	Gross alpha	0.516 U	1.3	2.95	Filtered		STL
RD-54C		Split	02/17/05	Gross beta	6.72	2.5	3.82	Filtered		STL
RD-54C		Primary	08/22/05	Gross alpha	0.733 U	1.2	2.08	Filtered		ES
RD-54C		Primary	08/22/05	Gross beta	4.69	1.7	2.19	Filtered		ES
RD-54C		Primary	02/23/06	Gross alpha	-2.58 U	3.6	7.1	Filtered		ES
RD-54C		Primary	02/23/06	Gross beta	4.22 U	2.9	4.33	Filtered		ES
RD-54C		Primary	08/10/06	Gross alpha	0.419 U	1.6	2.64	Filtered		ES
RD-54C		Primary	08/10/06	Gross beta	8.17	2.5	2.62	Filtered		ES
RD-54C		Primary	02/12/07	Gross alpha	0.241 U	1.3	2.25	Filtered		ES
RD-54C		Primary	02/12/07	Gross beta	4.37	2.2	3.14	Filtered		ES
RD-54C		Primary	08/07/07	Gross alpha	1.32 U	1.4	2.11	Filtered		ES
RD-54C		Primary	08/07/07	Gross beta	5.14	1.6	1.67	Filtered		ES
RD-54C		Primary	02/14/08	Gross alpha	1.32 J	1	1.29	Filtered		ES
RD-54C		Primary	02/14/08	Gross beta	5.11	1.2	1.5	Filtered		ES
RD-54C		Primary	08/07/08	Gross alpha	1.71 U	1.3	1.88	Filtered		ES
RD-54C		Primary	08/07/08	Gross beta	3.04 J	1.3	1.98	Filtered		ES
RD-56A		Primary	05/10/94	Gross alpha	3.9 U	4.5	7.2	Filtered		LAS
RD-56A		Primary	05/10/94	Gross beta	9.3	5.2	8	Filtered		LAS
RD-56A		Primary	02/20/96	Gross alpha	4.1 U	3.4	5.1	Filtered		LAS
RD-56A		Primary	02/20/96	Gross beta	3.7	2.2	3.4	Filtered		LAS
RD-56A		Primary	02/06/97	Gross alpha	5.5 U	4.4	6.4	Filtered		LAS
RD-56A		Primary	02/06/97	Gross beta	6.2	3.6	5.6	Filtered		LAS
RD-56A		Primary	05/28/98	Gross alpha	3.82	2.3	2.72	Filtered		TN
RD-56A		Primary	05/28/98	Gross beta	5.45	1.5	2.02	Filtered		TN

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-56B		Primary	05/28/98	Gross alpha	3.53	2	2.46	Filtered		TN
RD-56B		Primary	05/28/98	Gross beta	6.17	1.5	1.96	Filtered		TN
RD-57		Primary	03/16/94	Gross alpha	5.2	3.1	---	Filtered		LAS
RD-57		Primary	03/16/94	Gross beta	4.1	2.3	---	Filtered		LAS
RD-57		Primary	05/10/94	Gross alpha	2.3 U	2.2	3.2	Filtered		LAS
RD-57		Primary	05/10/94	Gross beta	5.4	2.5	3.8	Filtered		LAS
RD-57		Primary	08/18/94	Gross alpha	2.8 U	2.7	4.2	Filtered		LAS
RD-57		Primary	08/18/94	Gross beta	8.6	3.2	4.7	Filtered		LAS
RD-57		Primary	02/07/95	Gross alpha	1.3 U	2.1	3.8	Filtered		LAS
RD-57		Primary	02/07/95	Gross beta	4.8	2.4	3.7	Filtered		LAS
RD-57		Primary	08/09/95	Gross alpha	4.2	2.7	3.4	Filtered		LAS
RD-57		Primary	08/09/95	Gross beta	6.1	2.5	3.7	Filtered		LAS
RD-57		Primary	02/19/96	Gross alpha	3.8 U	3	4.6	Filtered		LAS
RD-57		Primary	02/19/96	Gross beta	5.4	1.7	2.4	Filtered		LAS
RD-57		Primary	08/22/96	Gross alpha	2.4 U	4.5	7.9	Filtered		LAS
RD-57		Primary	08/22/96	Gross beta	5.3 U	4.1	6.6	Filtered		LAS
RD-57		Primary	02/25/97	Gross alpha	6.5	3.1	3.5	Filtered		LAS
RD-57		Primary	02/25/97	Gross beta	6.2	2.1	2.9	Filtered		LAS
RD-57		Primary	08/27/97	Gross alpha	6.2	3.5	4.1	Filtered		LAS
RD-57		Primary	08/27/97	Gross beta	5.6	2.9	4.4	Filtered		LAS
RD-57		Primary	05/26/98	Gross alpha	4.96	2	1.73	Filtered		TN
RD-57		Primary	05/26/98	Gross beta	5.43	1.7	2.47	Filtered		TN
RD-57		Primary	08/17/98	Gross alpha	0.975	0.64	0.734	Filtered		TN
RD-57		Primary	08/17/98	Gross beta	4.4	1.5	2.13	Filtered		TN
RD-57		Primary	05/13/99	Gross alpha	2.84	1.6	1.92	Filtered		TN
RD-57		Primary	05/13/99	Gross beta	3.9	1.8	2.69	Filtered		TN
RD-57		Primary	02/09/00	Gross alpha	1.92	1.1	1.15	Filtered		TR
RD-57		Primary	02/09/00	Gross beta	5.16	2	2.8	Filtered		TR
RD-57		Primary	05/11/01	Gross alpha	1.46 U	1.5	2.06	Filtered		ES
RD-57		Primary	05/11/01	Gross beta	4.4	1.4	2	Filtered		ES
RD-57		Primary	02/14/02	Gross alpha	2.54	1.46	1.36	Filtered		DL
RD-57		Primary	02/14/02	Gross beta	3.15	1.23	2.04	Filtered		DL
RD-57	Z8	Primary	01/29/03	Gross alpha	2.68 J	1.7	2.02	Filtered		ES
RD-57	Z8	Primary	01/29/03	Gross beta	4.31	2.6	4.01	Filtered		ES
RD-57	Z8	Primary	04/30/03	Gross alpha	3.06	1.9	2.18	Filtered		ES
RD-57	Z8	Primary	04/30/03	Gross beta	6.07	2.2	2.63	Filtered		ES
RD-57	Z7	Primary	03/08/05	Gross alpha	2.66 J	1.6	1.52	Filtered		ES
RD-57	Z7	Primary	03/08/05	Gross beta	4.01	1.8	2.32	Filtered		ES
RD-57	Z7	Primary	09/01/05	Gross alpha	6.54	2	1.02	Filtered		ES
RD-57	Z7	Primary	09/01/05	Gross beta	6	1.9	2.18	Filtered		ES
RD-57	Z7	Primary	02/20/06	Gross alpha	3.21	2	2.65	Filtered		ES
RD-57	Z7	Primary	02/20/06	Gross beta	3.17 J	1.5	2.13	Filtered		ES
RD-57	Z7	Primary	08/18/06	Gross alpha	3.57	2.3	3.36	Filtered		ES
RD-57	Z7	Primary	08/18/06	Gross beta	8.34	2.3	2.27	Filtered		ES
RD-57	Z7	Primary	02/08/07	Gross alpha	5.1	1.7	1.19	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-57	Z7	Primary	02/08/07	Gross beta	5.7	1.7	1.62	Filtered		ES
RD-57	Z5	Primary	08/08/08	Gross alpha	0.086 U	0.73	1.29	Filtered		ES
RD-57	Z5	Primary	08/08/08	Gross beta	3.33 J	0.88	1.16	Filtered		ES
RD-59A		Primary	08/16/94	Gross alpha	3.6 U	3.7	5.7	Filtered		LAS
RD-59A		Primary	08/16/94	Gross beta	6.2 U	4.1	6.5	Filtered		LAS
RD-59A		Primary	02/06/95	Gross alpha	0.8 U	2.9	5.7	Filtered		LAS
RD-59A		Duplicate	02/06/95	Gross alpha	-5.5 U	7.3	20	Filtered		LAS
RD-59A		Primary	02/06/95	Gross beta	2.9 U	3.3	5.6	Filtered		LAS
RD-59A		Duplicate	02/06/95	Gross beta	2 U	20	35	Filtered		LAS
RD-59A		Primary	08/08/95	Gross alpha	4.8 U	4.3	6.4	Filtered		LAS
RD-59A		Primary	08/08/95	Gross beta	7.4	3.6	5.5	Filtered		LAS
RD-59A		Primary	03/12/96	Gross alpha	3.3 U	4.1	6.7	Filtered		LAS
RD-59A		Primary	03/12/96	Gross beta	4.7 U	3.3	5.2	Filtered		LAS
RD-59A		Primary	08/21/96	Gross alpha	0.3 U	3.3	6.8	Filtered		LAS
RD-59A		Primary	08/21/96	Gross beta	5.5 U	3.8	6	Filtered		LAS
RD-59A		Primary	02/16/97	Gross alpha	2 U	3.4	6.1	Filtered		LAS
RD-59A		Primary	02/16/97	Gross beta	7.4	3.6	5.6	Filtered		LAS
RD-59A		Primary	08/22/97	Gross alpha	0.9 U	3.8	7.5	Filtered		LAS
RD-59A		Primary	08/22/97	Gross beta	3.2 U	4	6.7	Filtered		LAS
RD-59A		Primary	08/19/98	Gross alpha	1.02	0.73	0.921	Filtered		TN
RD-59A		Primary	08/19/98	Gross beta	4.35	1.7	2.52	Filtered		TN
RD-59A		Primary	02/16/99	Gross alpha	3.17 U	2.4	3.2	Filtered		TN
RD-59A		Primary	02/16/99	Gross beta	4.96	1.9	2.89	Filtered		TN
RD-59A		Primary	03/14/00	Gross alpha	2.84	2.1	2.52	Filtered		TR
RD-59A		Primary	03/14/00	Gross beta	3.83 U	2.5	3.87	Filtered		TR
RD-59A		Primary	05/16/01	Gross alpha	0.724 U	2.2	3.56	Filtered		ES
RD-59A		Primary	05/16/01	Gross beta	6	1.6	2.21	Filtered		ES
RD-59A		Primary	02/28/02	Gross alpha	2.03	1.75	1.69	Filtered		DL
RD-59A		Primary	02/28/02	Gross beta	3.06	1.36	2.09	Filtered		DL
RD-59A		Primary	01/31/03	Gross alpha	1.81 U	1.8	2.12	Filtered		ES
RD-59A		Primary	01/31/03	Gross beta	4.95	2.4	3.56	Filtered		ES
RD-59A		Split	05/15/03	Gross alpha	3.53	1.94	2.54	Filtered		STL
RD-59A		Split	05/15/03	Gross beta	14	3.88	5.48	Filtered		STL
RD-59A		Primary	05/15/03	Gross alpha	3.55	2	2.54	Filtered		ES
RD-59A		Primary	05/15/03	Gross beta	7.58	2.8	3.36	Filtered		ES
RD-59A		Primary	11/16/04	Gross alpha	2.54 U	2.4	3.18	Filtered		ES
RD-59A		Primary	11/16/04	Gross beta	5.45	2.9	4.3	Filtered		ES
RD-59A		Primary	09/07/05	Gross alpha	3.39	2	2.1	Filtered		ES
RD-59A		Primary	09/07/05	Gross beta	5.35	2.1	2.86	Filtered		ES
RD-59A		Primary	08/23/06	Gross alpha	2.13 U	1.9	2.81	Filtered		ES
RD-59A		Primary	08/23/06	Gross beta	6.86	2.3	2.67	Filtered		ES
RD-59A		Primary	02/28/07	Gross alpha	0.439 U	1.6	2.72	Filtered		ES
RD-59A		Primary	02/28/07	Gross beta	5.39	2.2	2.88	Filtered		ES
RD-59A		Primary	08/16/07	Gross alpha	-0.848 U	3.1	5.52	Filtered		ES
RD-59A		Primary	08/16/07	Gross beta	5.29	2.4	3.38	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-59A		Primary	05/20/08	Gross alpha	3.09	1.9	2.25	Filtered		ES
RD-59A		Primary	05/20/08	Gross beta	3.63 J	2.3	3.61	Filtered		ES
RD-59A		Primary	08/14/08	Gross alpha	3.53	2.3	3.1	Filtered		ES
RD-59A		Primary	08/14/08	Gross beta	5.36	1.8	2.49	Filtered		ES
RD-59B		Primary	08/16/94	Gross alpha	0.5 U	2.2	4.6	Filtered		LAS
RD-59B		Primary	08/16/94	Gross beta	4.8 U	3.4	5.5	Filtered		LAS
RD-59B		Primary	02/06/95	Gross alpha	1.1 U	2.7	5	Filtered		LAS
RD-59B		Primary	02/06/95	Gross beta	6	2.8	4.3	Filtered		LAS
RD-59B		Primary	08/08/95	Gross alpha	3.3 U	2.9	4.2	Filtered		LAS
RD-59B		Primary	08/08/95	Gross beta	4.9	2.5	3.7	Filtered		LAS
RD-59B		Primary	03/12/96	Gross alpha	0.6 U	2.5	4.9	Filtered		LAS
RD-59B		Primary	03/12/96	Gross beta	4.7	2.4	3.8	Filtered		LAS
RD-59B		Primary	08/21/96	Gross alpha	-0.2 U	2.7	5.7	Filtered		LAS
RD-59B		Primary	08/21/96	Gross beta	4.7	2.8	4.3	Filtered		LAS
RD-59B		Primary	02/16/97	Gross alpha	4.5 U	3.5	5	Filtered		LAS
RD-59B		Primary	02/16/97	Gross beta	6.7	2.9	4.3	Filtered		LAS
RD-59B		Primary	08/22/97	Gross alpha	3.5 U	3.2	4.8	Filtered		LAS
RD-59B		Primary	08/22/97	Gross beta	5.3	3	4.7	Filtered		LAS
RD-59B		Primary	08/19/98	Gross alpha	0.127 U	0.44	0.839	Filtered		TN
RD-59B		Primary	08/19/98	Gross beta	3.41	1.4	2.03	Filtered		TN
RD-59B		Primary	02/16/99	Gross alpha	4.38	2.3	2.58	Filtered		TN
RD-59B		Primary	02/16/99	Gross beta	5.32	1.6	2.32	Filtered		TN
RD-59B		Primary	03/14/00	Gross alpha	3.27	2.2	2.82	Filtered		TR
RD-59B		Primary	03/14/00	Gross beta	3.46	2	2.99	Filtered		TR
RD-59B		Primary	02/17/01	Gross alpha	2.27	2.2	2.2	Filtered		ES
RD-59B		Primary	02/17/01	Gross beta	4.17	1.5	2.08	Filtered		ES
RD-59B		Primary	02/28/02	Gross alpha	1.58	1.38	1.46	Filtered		DL
RD-59B		Primary	02/28/02	Gross beta	1.58 U	1.28	1.91	Filtered		DL
RD-59B		Primary	01/31/03	Gross alpha	1.52 U	1.8	2.45	Filtered		ES
RD-59B		Primary	01/31/03	Gross beta	3.58 J	2.2	3.41	Filtered		ES
RD-59B		Primary	11/05/04	Gross alpha	0.518 U	1.8	3.55	Filtered		ES
RD-59B		Primary	11/05/04	Gross beta	6.22	2.7	3.52	Filtered		ES
RD-59B		Primary	09/07/05	Gross alpha	2.08 J	1.4	1.67	Filtered		ES
RD-59B		Primary	09/07/05	Gross beta	3.72 J	1.9	2.87	Filtered		ES
RD-59B		Primary	02/22/06	Gross alpha	0.042 U	2.6	4.98	Filtered		ES
RD-59B		Primary	02/22/06	Gross beta	4.45	1.7	2.01	Filtered		ES
RD-59B		Primary	08/23/06	Gross alpha	-0.607 U	1.4	2.5	Filtered		ES
RD-59B		Primary	08/23/06	Gross beta	4.44	1.4	1.6	Filtered		ES
RD-59B		Primary	02/28/07	Gross alpha	-0.443 U	1.2	2.21	Filtered		ES
RD-59B		Primary	02/28/07	Gross beta	3.77 J	1.5	1.91	Filtered		ES
RD-59B		Split	02/28/07	Gross alpha	2.77 J	1.7	1.93	Filtered		STL
RD-59B		Split	02/28/07	Gross beta	4.65	2.1	3.6	Filtered		STL
RD-59B		Primary	08/16/07	Gross alpha	1.65 U	2	3.1	Filtered		ES
RD-59B		Primary	08/16/07	Gross beta	2.95 J	1.9	2.79	Filtered		ES
RD-59B		Primary	05/20/08	Gross alpha	1.19 U	1.2	1.78	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-59B		Primary	05/20/08	Gross beta	3.65 J	1.1	1.46	Filtered		ES
RD-59B		Primary	08/14/08	Gross alpha	2.57 J	1.8	2.22	Filtered		ES
RD-59B		Primary	08/14/08	Gross beta	3.26 J	1.7	2.72	Filtered		ES
RD-59C		Primary	08/16/94	Gross alpha	1.9 U	2.4	3.8	Filtered		LAS
RD-59C		Primary	08/16/94	Gross beta	4.1 U	2.9	4.6	Filtered		LAS
RD-59C		Primary	02/06/95	Gross alpha	2.2 U	2.9	4.9	Filtered		LAS
RD-59C		Primary	02/06/95	Gross beta	3.7 U	2.8	4.4	Filtered		LAS
RD-59C		Primary	08/08/95	Gross alpha	0.9 U	2.2	4.2	Filtered		LAS
RD-59C		Primary	08/08/95	Gross beta	3.2 U	2.5	4.1	Filtered		LAS
RD-59C		Primary	03/12/96	Gross alpha	0.2 U	3.5	6.9	Filtered		LAS
RD-59C		Primary	03/12/96	Gross beta	4.6	2.5	3.9	Filtered		LAS
RD-59C		Primary	08/21/96	Gross alpha	1.3 U	2.7	4.9	Filtered		LAS
RD-59C		Primary	08/21/96	Gross beta	3.1 U	2.7	4.3	Filtered		LAS
RD-59C		Primary	02/16/97	Gross alpha	4 U	3.6	5.6	Filtered		LAS
RD-59C		Primary	02/16/97	Gross beta	3.1 U	2.6	4.2	Filtered		LAS
RD-59C		Primary	08/22/97	Gross alpha	1.6 U	2.6	4.5	Filtered		LAS
RD-59C		Primary	08/22/97	Gross beta	2.8 U	3.2	5.3	Filtered		LAS
RD-59C		Primary	08/19/98	Gross alpha	0.193 U	0.43	0.782	Filtered		TN
RD-59C		Primary	08/19/98	Gross beta	2.2	1.4	2.14	Filtered		TN
RD-59C		Primary	02/16/99	Gross alpha	0.66 U	1.5	2.61	Filtered		TN
RD-59C		Primary	02/16/99	Gross beta	5.17	1.8	2.66	Filtered		TN
RD-59C		Primary	03/14/00	Gross alpha	0.518 U	1.5	2.85	Filtered		TR
RD-59C		Primary	03/14/00	Gross beta	4.63	2.2	3.4	Filtered		TR
RD-59C		Primary	02/17/01	Gross alpha	1.11 U	1.7	2.42	Filtered		ES
RD-59C		Primary	02/17/01	Gross beta	4.17	1.5	2.04	Filtered		ES
RD-59C		Primary	02/28/02	Gross alpha	0.23 U	1.68	2.92	Filtered		DL
RD-59C		Primary	02/28/02	Gross beta	1.84 U	0.94	1.92	Filtered		DL
RD-59C		Primary	01/31/03	Gross alpha	2.04 J	1.8	2	Filtered		ES
RD-59C		Primary	01/31/03	Gross beta	3.54 J	1.9	2.8	Filtered		ES
RD-59C		Primary	11/05/04	Gross alpha	0.419 U	1.8	3.59	Filtered		ES
RD-59C		Primary	11/05/04	Gross beta	3.82 U	2.6	4.07	Filtered		ES
RD-59C		Primary	09/07/05	Gross alpha	2.2 J	1.3	1.4	Filtered		ES
RD-59C		Primary	09/07/05	Gross beta	3.92 J	1.7	2.26	Filtered		ES
RD-59C		Primary	02/22/06	Gross alpha	-1.41 U	2.7	4.86	Filtered		ES
RD-59C		Split	02/22/06	Gross alpha	1.34 U	1.21	2	Filtered		STL
RD-59C		Primary	02/22/06	Gross beta	3.26 J	1.7	2.44	Filtered		ES
RD-59C		Split	02/22/06	Gross beta	3.96 J	1.6	2.68	Filtered		STL
RD-59C		Primary	08/23/06	Gross alpha	-1.26 U	1.4	2.77	Filtered		ES
RD-59C		Primary	08/23/06	Gross beta	2.32 U	2.3	3.9	Filtered		ES
RD-59C		Primary	02/28/07	Gross alpha	1.4 U	1.3	1.94	Filtered		ES
RD-59C		Primary	02/28/07	Gross beta	3.82 J	1.6	2.09	Filtered		ES
RD-59C		Primary	08/16/07	Gross alpha	1.27 U	1.8	2.9	Filtered		ES
RD-59C		Primary	08/16/07	Gross beta	2.64 J	1.6	2.33	Filtered		ES
RD-59C		Primary	05/20/08	Gross alpha	1.52 U	1.4	1.95	Filtered		ES
RD-59C		Primary	05/20/08	Gross beta	2.89 J	1.3	1.97	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-59C		Primary	08/14/08	Gross alpha	0.596 U	2	3.36	Filtered		ES
RD-59C		Primary	08/14/08	Gross beta	5.47	2.6	3.8	Filtered		ES
RD-61		Primary	05/28/98	Gross alpha	2.72	1.8	2.08	Filtered		TN
RD-61		Primary	05/28/98	Gross beta	3.58	1.7	2.56	Filtered		TN
RD-63		Primary	09/22/94	Gross alpha	12.9	5.6	---	Filtered		LAS
RD-63		Primary	09/22/94	Gross beta	10.3	4.6	---	Filtered		LAS
RD-63		Primary	11/09/94	Gross alpha	14.4	5.7	5.5	Filtered		LAS
RD-63		Primary	11/09/94	Gross beta	10.9	3.8	5.3	Filtered		LAS
RD-63		Primary	01/04/95	Gross alpha	8.7	5.2	---	Filtered		LAS
RD-63		Primary	01/04/95	Gross beta	7.7	4.1	---	Filtered		LAS
RD-63		Primary	02/02/99	Gross alpha	17.6	5.3	3.78	Filtered		TN
RD-63		Primary	02/02/99	Gross beta	19.1	3	3.51	Filtered		TN
RD-63		Primary	02/16/00	Gross alpha	9.95	4.1	3.9	Filtered		TR
RD-63		Primary	02/16/00	Gross beta	9.7	4.2	6.3	Filtered		TR
RD-63		Primary	02/23/01	Gross alpha	13.7	3.7	3.39	Filtered		ES
RD-63		Primary	02/23/01	Gross beta	7.73	1.9	2.59	Filtered		ES
RD-63		Primary	02/14/02	Gross alpha	9.48	3.51	2.56	Filtered		DL
RD-63		Primary	02/14/02	Gross beta	8.14	1.64	3.63	Filtered		DL
RD-63		Primary	02/05/03	Gross alpha	6.08	1.7	1.94	Filtered		ES
RD-63		Primary	02/05/03	Gross beta	9.06	1.3	1.72	Filtered		ES
RD-63		Primary	02/24/04	Gross alpha	4.35	3.6	4.22	Filtered		ES
RD-63		Primary	02/24/04	Gross beta	8.01	4	5.28	Filtered		ES
RD-63		Primary	08/25/05	Gross alpha	9.38	3	1.54	Filtered		ES
RD-63		Primary	08/25/05	Gross beta	10.6	2.8	2.51	Filtered		ES
RD-63		Primary	02/16/06	Gross alpha	8.81	4.8	5.12	Filtered		ES
RD-63		Primary	02/16/06	Gross beta	11.2	4.2	4.97	Filtered		ES
RD-63		Primary	08/09/06	Gross alpha	3.75 U	3	4.45	Filtered		ES
RD-63		Split	08/09/06	Gross alpha	8.44	4.5	4.25	Filtered		STL
RD-63		Primary	08/09/06	Gross beta	8.13	2.7	3.14	Filtered		ES
RD-63		Split	08/09/06	Gross beta	11.1	3.5	5.33	Filtered		STL
RD-63		Primary	05/24/07	Gross alpha	10.4	3.8	3.3	Filtered		ES
RD-63		Split	05/24/07	Gross alpha	10.7	3.6	2.25	Filtered		STL
RD-63		Primary	05/24/07	Gross beta	11.7	3	2.57	Filtered		ES
RD-63		Split	05/24/07	Gross beta	11.5	3.4	5.03	Filtered		STL
RD-63		Primary	08/21/07	Gross alpha	8.45	4.3	4.98	Filtered		ES
RD-63		Primary	08/21/07	Gross beta	8.41	4.9	7.12	Filtered		ES
RD-63		Primary	02/06/08	Gross alpha	6.84	4.7	6.57	Filtered		ES
RD-63		Primary	02/06/08	Gross beta	9.4	3.3	3.84	Filtered		ES
RD-63		Primary	08/12/08	Gross alpha	7.42	3.2	2.93	Filtered		ES
RD-63		Primary	08/12/08	Gross beta	11	3	4.21	Filtered		ES
RD-64		Primary	05/10/01	Gross alpha	3.98	2.6	2.93	Filtered		ES
RD-64		Primary	05/10/01	Gross beta	8.63	2	2.38	Filtered		ES
RD-64		Primary	02/28/02	Gross alpha	5.1	2.67	2.83	Filtered		DL
RD-64		Primary	02/28/02	Gross beta	5.93	1.1	2.28	Filtered		DL
RD-64	Z6	Primary	01/29/03	Gross alpha	3.9	2.2	2.28	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-64	Z6	Primary	01/29/03	Gross beta	6.68	2.1	2.81	Filtered		ES
RD-64	Z6	Primary	11/12/04	Gross alpha	3.25	2.2	1.93	Filtered		ES
RD-64	Z6	Primary	11/12/04	Gross beta	6.85	2.3	2.56	Filtered		ES
RD-64	Z6	Primary	02/14/05	Gross alpha	5.62	3	3.15	Filtered		ES
RD-64	Z6	Primary	02/14/05	Gross beta	7.75	3	3.68	Filtered		ES
RD-64	Z6	Primary	08/31/05	Gross alpha	6.16	2.2	1.55	Filtered		ES
RD-64	Z6	Primary	08/31/05	Gross beta	6.57	1.9	1.9	Filtered		ES
RD-64	Z6	Primary	02/16/06	Gross alpha	-0.557 U	1.5	2.55	Filtered		ES
RD-64	Z6	Primary	02/16/06	Gross beta	1.36 U	1.5	2.56	Filtered		ES
RD-64	Z6	Primary	08/17/06	Gross alpha	7.25	2.4	2.15	Filtered		ES
RD-64	Z6	Primary	08/17/06	Gross beta	7.93	2.6	3.15	Filtered		ES
RD-64	Z6	Primary	02/08/07	Gross alpha	5.13	2.2	2.36	Filtered		ES
RD-64	Z6	Primary	02/08/07	Gross beta	5.44	1.9	2.45	Filtered		ES
RD-64	Z2	Primary	08/10/07	Gross alpha	14.6	4.4	3.11	Filtered		ES
RD-64	Z2	Primary	08/10/07	Gross beta	6.91	2.2	2.53	Filtered		ES
RD-64	Z7	Primary	02/06/08	Gross alpha	7.02	2.8	2.67	Filtered		ES
RD-64	Z7	Primary	02/06/08	Gross beta	7.09	2.1	2.4	Filtered		ES
RD-64	Z7	Primary	08/07/08	Gross alpha	4.41	2.6	2.96	Filtered		ES
RD-64	Z7	Primary	08/07/08	Gross beta	8.49	3	4.2	Filtered		ES
RD-65		Primary	02/27/97	Gross alpha	0.3 U	1.7	3.5	Filtered		LAS
RD-65		Primary	02/27/97	Gross beta	0.5 U	1.8	3.1	Filtered		LAS
RD-65		Primary	02/07/98	Gross alpha	2.24	1.3	1.47	Filtered		TN
RD-65		Primary	02/07/98	Gross beta	4.39	1.6	2.38	Filtered		TN
RD-66		Primary	09/30/97	Gross alpha	7.5	5.6	7.3	Filtered		LAS
RD-66		Primary	09/30/97	Gross beta	3.7 U	4.7	7.9	Filtered		LAS
RD-68A		Primary	07/09/97	Gross alpha	5.6 U	5.3	8	Filtered		LAS
RD-68A		Primary	07/09/97	Gross beta	3.8 U	4.3	7.1	Filtered		LAS
RD-68B		Primary	07/10/97	Gross alpha	-0.7 U	2.8	6.3	Filtered		LAS
RD-68B		Primary	07/10/97	Gross beta	3.4 U	3	4.9	Filtered		LAS
RD-69		Primary	05/28/98	Gross alpha	2.33 U	1.8	2.45	Filtered		TN
RD-69		Primary	05/28/98	Gross beta	3.8	1.4	1.96	Filtered		TN
RD-71		Primary	09/30/97	Gross alpha	4.9 U	3.7	5	Filtered		LAS
RD-71		Primary	09/30/97	Gross beta	4.1 U	3.2	5.1	Filtered		LAS
RD-74		Primary	05/13/99	Gross alpha	8.82	3.4	2.74	Filtered		TN
RD-74		Primary	05/13/99	Gross beta	5.29	1.9	2.72	Filtered		TN
RD-75		Primary	08/30/05	Gross alpha	4.05	2.1	2.64	Filtered		ES
RD-75		Primary	08/30/05	Gross beta	8.15	2.6	3.05	Filtered		ES
RD-85		Primary	08/13/04	Gross alpha	9.97	4.4	3.1	Filtered		ES
RD-85		Primary	08/13/04	Gross alpha	8.99	4.3	3.42	Filtered		ES
RD-85		Primary	08/13/04	Gross beta	16.6	4.3	3.27	Filtered		ES
RD-85		Primary	08/13/04	Gross beta	8.07	3.4	4.41	Filtered		ES
RD-85		Primary	02/23/05	Gross alpha	1.67 U	2.5	4.03	Filtered		ES
RD-85		Primary	02/23/05	Gross beta	5.98	3.4	4.77	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-86		Primary	08/13/04	Gross alpha	3.79	2.1	1.82	Filtered		ES
RD-86		Primary	08/13/04	Gross beta	9.51	2.7	2.26	Filtered		ES
RD-86		Primary	08/26/04	Gross alpha	3.55	2	2.07	Filtered		ES
RD-86		Primary	08/26/04	Gross beta	6.79	2.6	3.23	Filtered		ES
RD-86		Primary	02/23/05	Gross alpha	6.42	3.4	3.4	Filtered		ES
RD-86		Primary	02/23/05	Gross beta	2.75 U	2.6	3.96	Filtered		ES
RD-87		Primary	08/18/04	Gross alpha	1.51 U	3.7	5.89	Filtered		ES
RD-87		Primary	08/18/04	Gross beta	10.2	5.2	7.05	Filtered		ES
RD-87		Primary	08/26/04	Gross alpha	7.76	4	4.14	Filtered		ES
RD-87		Primary	08/26/04	Gross beta	11.8	4.1	4.52	Filtered		ES
RD-87		Primary	08/24/05	Gross alpha	12	3.3	2	Filtered		ES
RD-87		Primary	08/24/05	Gross beta	6.64	2.3	2.98	Filtered		ES
RD-88		Primary	08/20/04	Gross alpha	6.19	5.6	5.81	Filtered		ES
RD-88		Primary	08/20/04	Gross beta	8.43 U	6.8	8.53	Filtered		ES
RD-88		Primary	08/26/04	Gross alpha	6.67	4.1	3.55	Filtered		ES
RD-88		Primary	08/26/04	Gross beta	14.8	5.1	5.56	Filtered		ES
RD-88		Primary	08/25/05	Gross alpha	5.12	1.9	1.29	Filtered		ES
RD-88		Primary	08/25/05	Gross beta	9.68	2.4	1.99	Filtered		ES
RD-89		Primary	05/24/05	Gross alpha	11.2	5.6	5.08	Filtered		ES
RD-89		Primary	05/24/05	Gross beta	4.24 U	4.3	6.92	Filtered		ES
RD-89		Duplicate	05/24/05	Gross alpha	11.7	5.6	4.75	Filtered		ES
RD-89		Duplicate	05/24/05	Gross beta	8.35	4.8	6.94	Filtered		ES
RD-89		Primary	06/01/05	Gross alpha	11.4	5.4	5.32	Filtered		ES
RD-89		Primary	06/01/05	Gross beta	3.26 U	4.4	7.35	Filtered		ES
RD-90		Primary	03/25/04	Gross alpha	9.02	4.8	3.85	Filtered		ES
RD-90		Primary	03/25/04	Gross beta	14	5	5.63	Filtered		ES
RD-90		Primary	04/15/04	Gross alpha	11.3	4.3	2.55	Filtered		ES
RD-90		Primary	04/15/04	Gross beta	13.4	3.7	3.13	Filtered		ES
RD-90		Primary	08/25/05	Gross alpha	14.5	4	2.04	Filtered		ES
RD-90		Primary	08/25/05	Gross beta	15.9	3.9	3	Filtered		ES
RD-91		Primary	03/25/04	Gross alpha	1.49 U	2.3	3.26	Filtered		ES
RD-91		Primary	03/25/04	Gross beta	7.33	3.4	4.44	Filtered		ES
RD-91		Primary	04/15/04	Gross alpha	6.93	3.2	2.45	Filtered		ES
RD-91		Primary	04/15/04	Gross beta	5.36	3.3	4.81	Filtered		ES
RD-92		Primary	03/25/04	Gross alpha	0.401 U	1.6	2.74	Filtered		ES
RD-92		Primary	03/25/04	Gross beta	1.51 U	2.4	3.95	Filtered		ES
RD-92		Primary	04/15/04	Gross alpha	0.79 U	0.97	1.28	Filtered		ES
RD-92		Primary	04/15/04	Gross beta	2.78 J	1.3	1.77	Filtered		ES
RD-93		Primary	05/23/05	Gross alpha	7.04	4.8	5.94	Filtered		ES
RD-93		Primary	05/23/05	Gross beta	3.4 U	4.7	8.02	Filtered		ES
RD-93		Duplicate	05/23/05	Gross alpha	11.1	6.3	7.32	Filtered		ES
RD-93		Duplicate	05/23/05	Gross beta	4.35 U	5.2	8.64	Filtered		ES
RD-93		Primary	06/01/05	Gross alpha	6.29 U	5.7	8.39	Filtered		ES
RD-93		Primary	06/01/05	Gross beta	4.06 U	8	13.8	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
RD-93		Primary	08/24/05	Gross alpha	5.15	2.4	2.51	Filtered		ES
RD-93		Primary	08/24/05	Gross beta	3.48 U	2.9	4.42	Filtered		ES
RD-94		Primary	05/23/05	Gross alpha	11	5.1	4.53	Filtered		ES
RD-94		Primary	05/23/05	Gross beta	10.1	4.3	5.63	Filtered		ES
RD-94		Primary	06/01/05	Gross alpha	18.8	7.3	5.34	Filtered		ES
RD-94		Primary	06/01/05	Gross beta	8.82	5.3	7.85	Filtered		ES
RD-94		Primary	08/25/05	Gross alpha	7.09	2.5	2.02	Filtered		ES
RD-94		Primary	08/25/05	Gross beta	11.5	3.1	2.87	Filtered		ES
RD-95		Primary	05/23/05	Gross alpha	4.61	3.4	4.13	Filtered		ES
RD-95		Primary	05/23/05	Gross beta	4.89 U	3.6	5.65	Filtered		ES
RD-95		Primary	06/01/05	Gross alpha	4.1 U	4	5.56	Filtered		ES
RD-95		Primary	06/01/05	Gross beta	4.13 U	5.1	8.44	Filtered		ES
RD-95		Primary	08/24/05	Gross alpha	3.66	2.1	2.64	Filtered		ES
RD-95		Primary	08/24/05	Gross beta	3.11 U	2.8	4.45	Filtered		ES
RD-96		Primary	05/09/06	Gross alpha	16.2	6.2	3.77	Unfiltered		ES
RD-96		Primary	05/09/06	Gross beta	16.2	5.1	5.39	Unfiltered		ES
RD-96		Primary	05/09/06	Gross alpha	2.97 U	4.2	6.91	Filtered		ES
RD-96		Primary	05/09/06	Gross beta	8.16	5.2	7.95	Filtered		ES
RD-97		Primary	05/09/06	Gross alpha	35.8	13	7.05	Unfiltered		ES
RD-97		Primary	05/09/06	Gross beta	40.5	11	8.9	Unfiltered		ES
RD-97		Primary	05/09/06	Gross alpha	5.43 U	4.7	6.45	Filtered		ES
RD-97		Primary	05/09/06	Gross beta	7.04	4	5.6	Filtered		ES
RD-98		Primary	06/26/08	Gross alpha	5.39 J	2.7	3	Filtered		ES
RD-98		Primary	06/26/08	Gross beta	10.9	2.9	4	Filtered		ES
RD-98		Primary	09/11/08	Gross alpha	4.16	2.2	2.24	Filtered		ES
RD-98		Primary	09/11/08	Gross beta	9.65	2	2.3	Filtered		ES
RD-98		Primary	11/14/08	Gross alpha	-3.01 U	2.8	5.08	Filtered		ES
RD-98		Primary	11/14/08	Gross alpha	2.55 U	2.5	3.53	Unfiltered		ES
RD-98		Primary	11/14/08	Gross beta	9.67	2.2	2.69	Filtered		ES
RD-98		Primary	11/14/08	Gross beta	8.72	3	4.2	Unfiltered		ES
WS-04A		Primary	06/03/89	Gross alpha	9.9	2.5	---	Unfiltered		BC
WS-04A		Primary	06/03/89	Gross beta	5.8	0.7	---	Unfiltered		BC
WS-04A		Primary	07/23/89	Gross alpha	-1 U	1.5	---	Unfiltered, Decanted		BC
WS-04A		Primary	07/23/89	Gross beta	7.1	0.4	---	Unfiltered, Decanted		BC
WS-04A		Primary	09/09/89	Gross alpha	2.1	1.5	---	Filtered		BC
WS-04A		Primary	09/09/89	Gross alpha	5.6	1.9	---	Unfiltered		UST
WS-04A		Primary	09/09/89	Gross beta	7.8	0.5	---	Filtered		BC
WS-04A		Primary	09/09/89	Gross beta	12.4	0.6	---	Unfiltered		UST
WS-04A		Primary	12/06/90	Gross alpha	2.18 U	2.79	4	Filtered		IT
WS-04A		Primary	12/06/90	Gross beta	5.9	2.66	4	Filtered		IT
WS-04A		Primary	03/18/93	Gross alpha	2 U	---	2	Filtered		CEP
WS-04A		Primary	03/18/93	Gross beta	5	2	3	Filtered		CEP

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
WS-04A		Primary	06/10/93	Gross alpha	4	3	2	Filtered	High statistics due to large amount of solids.	CEP
WS-04A		Primary	06/10/93	Gross beta	9	4	3	Filtered		CEP
WS-04A		Primary	08/23/93	Gross alpha	2 U	---	2	Filtered		CEP
WS-04A		Primary	08/23/93	Gross beta	8	3	3	Filtered		CEP
WS-04A		Primary	11/04/93	Gross alpha	1.3 U	2.3	4.2	Filtered		CEP
WS-04A		Primary	11/04/93	Gross beta	4.3 U	3.2	5.1	Filtered		CEP
WS-05		Primary	06/01/89	Gross alpha	-1 U	2.7	---	Unfiltered		BC
WS-05		Primary	06/01/89	Gross beta	6.2	0.5	---	Unfiltered		BC
WS-05		Primary	07/22/89	Gross alpha	3.5	1.5	---	Unfiltered, Decanted		BC
WS-05		Primary	07/22/89	Gross beta	7.5	0.4	---	Unfiltered, Decanted		BC
WS-05		Primary	09/09/89	Gross alpha	1.5	1.4	---	Filtered		BC
WS-05		Primary	09/09/89	Gross alpha	4	1.6	---	Unfiltered		UST
WS-05		Primary	09/09/89	Gross beta	9.3	0.3	---	Filtered		BC
WS-05		Primary	09/09/89	Gross beta	10.2	0.4	---	Unfiltered		UST
WS-06		Primary	06/01/89	Gross alpha	7.4	4.3	---	Unfiltered		BC
WS-06		Primary	06/01/89	Gross beta	5.2	0.8	---	Unfiltered		BC
WS-06		Primary	07/23/89	Gross alpha	5.8	1.7	---	Unfiltered, Decanted		BC
WS-06		Primary	07/23/89	Gross beta	7.6	0.4	---	Unfiltered, Decanted		BC
WS-06		Primary	09/11/89	Gross alpha	2.9	2.3	---	Filtered		BC
WS-06		Primary	09/11/89	Gross alpha	2.4	2.4	---	Unfiltered		UST
WS-06		Primary	09/11/89	Gross beta	12.9	0.8	---	Filtered		BC
WS-06		Primary	09/11/89	Gross beta	12.3	0.8	---	Unfiltered		UST
WS-07		Primary	06/04/89	Gross alpha	3.4 U	4	---	Unfiltered		BC
WS-07		Primary	06/04/89	Gross beta	7.3	0.8	---	Unfiltered		BC
WS-07		Primary	07/23/89	Gross alpha	8.3	1.9	---	Unfiltered, Decanted		BC
WS-07		Primary	07/23/89	Gross beta	4.7	0.5	---	Unfiltered, Decanted		BC
WS-07		Primary	12/06/90	Gross alpha	3.8 U	2.03	4	Filtered		IT
WS-07		Duplicate	12/06/90	Gross alpha	2.1 U	1.69	4	Filtered		IT
WS-07		Primary	12/06/90	Gross beta	5.07	2.59	4	Filtered		IT
WS-07		Duplicate	12/06/90	Gross beta	5.23	2.68	4	Filtered		IT
WS-07		Primary	03/08/91	Gross alpha	5.76	2.68	4	Filtered		IT
WS-07		Primary	03/08/91	Gross beta	4.82	2.55	4	Filtered		IT
WS-07		Primary	12/07/91	Gross alpha	5.18	2.97	4	Filtered		IT
WS-07		Split	12/07/91	Gross alpha	2 U	---	2	Filtered		CEP
WS-07		Primary	12/07/91	Gross beta	5.78	1.87	4	Filtered		IT
WS-07		Split	12/07/91	Gross beta	3 U	---	3	Filtered		CEP
WS-08		Primary	06/04/89	Gross alpha	157	22.6	---	Unfiltered		BC
WS-08		Primary	06/04/89	Gross beta	239	8.7	---	Unfiltered		BC
WS-08		Primary	07/22/89	Gross alpha	2.1	1.8	---	Filtered		BC

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
WS-08		Primary	07/22/89	Gross alpha	3.9	1.6	---	Unfiltered, Decanted		BC
WS-08		Primary	07/22/89	Gross beta	1.8	0.6	---	Filtered		BC
WS-08		Primary	07/22/89	Gross beta	5.7	0.4	---	Unfiltered, Decanted		BC
WS-08		Primary	09/09/89	Gross alpha	2.6	1.2	---	Filtered		BC
WS-08		Primary	09/09/89	Gross alpha	9.7	1.9	---	Unfiltered		UST
WS-08		Primary	09/09/89	Gross beta	9.5	0.3	---	Filtered		BC
WS-08		Primary	09/09/89	Gross beta	10.7	0.4	---	Unfiltered		UST
WS-09		Primary	06/04/89	Gross alpha	21.2	3.7	---	Unfiltered		BC
WS-09		Primary	06/04/89	Gross beta	11.5	0.9	---	Unfiltered		BC
WS-09		Primary	07/19/89	Gross alpha	5.4	2.6	---	Filtered		BC
WS-09		Primary	07/19/89	Gross alpha	10	3	---	Unfiltered		FGL
WS-09		Primary	07/19/89	Gross alpha	8.8	1.8	---	Unfiltered, Decanted		BC
WS-09		Primary	07/19/89	Gross beta	10	1	---	Filtered		BC
WS-09		Primary	07/19/89	Gross beta	7	5	---	Unfiltered		FGL
WS-09		Primary	07/19/89	Gross beta	12	0.5	---	Unfiltered, Decanted		BC
WS-09A		Split	06/01/89	Gross alpha	-1 U	3.4	---	Unfiltered		BC
WS-09A		Split	06/01/89	Gross beta	4.3	0.6	---	Unfiltered		BC
WS-09A		Primary	07/23/89	Gross alpha	1.8	1.2	---	Unfiltered, Decanted		BC
WS-09A		Primary	07/23/89	Gross beta	3.9	0.3	---	Unfiltered, Decanted		BC
WS-09A		Primary	09/12/89	Gross alpha	-1 U	2.3	---	Filtered		BC
WS-09A		Primary	09/12/89	Gross alpha	3.9	3.1	---	Unfiltered		UST
WS-09A		Primary	09/12/89	Gross beta	7.9	0.8	---	Filtered		BC
WS-09A		Primary	09/12/89	Gross beta	10.6	1	---	Unfiltered		UST
WS-09B		Primary	06/06/89	Gross alpha	-1 U	3.1	---	Unfiltered		BC
WS-09B		Primary	06/06/89	Gross beta	11.1	0.7	---	Unfiltered		BC
WS-09B		Primary	07/24/89	Gross alpha	5.8	2	---	Unfiltered, Decanted		BC
WS-09B		Primary	07/24/89	Gross beta	9	0.4	---	Unfiltered, Decanted		BC
WS-12		Primary	06/04/89	Gross alpha	11.2	3	---	Unfiltered		BC
WS-12		Primary	06/04/89	Gross beta	9.4	0.6	---	Unfiltered		BC
WS-12		Primary	07/24/89	Gross alpha	3.8	1.5	---	Unfiltered, Decanted		BC
WS-12		Primary	07/24/89	Gross beta	6.8	0.4	---	Unfiltered, Decanted		BC
WS-13		Primary	06/03/89	Gross alpha	10.5	3	---	Unfiltered		BC
WS-13		Primary	06/03/89	Gross beta	4.5	0.7	---	Unfiltered		BC
WS-13		Primary	07/22/89	Gross alpha	6.6	1.8	---	Unfiltered, Decanted		BC
WS-13		Primary	07/22/89	Gross beta	6.1	0.4	---	Unfiltered, Decanted		BC
WS-13		Primary	10/17/89	Gross alpha	4.01	2.45	---	Filtered		UST

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Chatsworth Formation Wells										
WS-13		Duplicate	10/17/89	Gross alpha	2.98	2.24	---	Filtered		UST
WS-13		Primary	10/17/89	Gross beta	3.82	1.86	---	Filtered		UST
WS-13		Duplicate	10/17/89	Gross beta	3.9	1.9	---	Filtered		UST
WS-13		Primary	11/01/89	Gross alpha	1.69 U	1.73	---	Filtered		UST
WS-13		Primary	11/01/89	Gross alpha	1.68 U	1.92	---	Unfiltered		UST
WS-13		Primary	11/01/89	Gross beta	5.82	2.75	---	Filtered		UST
WS-13		Primary	11/01/89	Gross beta	5.77	2.76	---	Unfiltered		UST
WS-14		Primary	06/03/89	Gross alpha	7.9	4	---	Unfiltered		BC
WS-14		Primary	06/03/89	Gross beta	2.3	1	---	Unfiltered		BC
WS-14		Primary	07/22/89	Gross alpha	3.3	1.4	---	Unfiltered, Decanted		BC
WS-14		Primary	07/22/89	Gross beta	5.3	0.3	---	Unfiltered, Decanted		BC
Private Off-site Wells										
OS-01		Primary	06/05/89	Gross alpha	-1 U	3	---	Unfiltered		BC
OS-01		Primary	06/05/89	Gross beta	5.6	0.7	---	Unfiltered		BC
OS-01		Primary	07/24/89	Gross alpha	5.1	3.7	---	Unfiltered, Decanted		BC
OS-01		Primary	07/24/89	Gross beta	6.5	1.2	---	Unfiltered, Decanted		BC
OS-01		Primary	09/13/89	Gross alpha	2.3	2.3	---	Filtered		BC
OS-01		Primary	09/13/89	Gross alpha	3.6	2.5	---	Unfiltered		UST
OS-01		Primary	09/13/89	Gross beta	5.5	0.8	---	Filtered		BC
OS-01		Primary	09/13/89	Gross beta	9	0.9	---	Unfiltered		UST
OS-01		Primary	06/28/90	Gross alpha	2.28 U	2.57	---	Filtered		UST
OS-01		Primary	06/28/90	Gross beta	4.21	2.51	---	Filtered		UST
OS-01		Primary	12/11/90	Gross alpha	2.62 U	1.83	4	Filtered		IT
OS-01		Primary	12/11/90	Gross beta	5.31	2.64	4	Filtered		IT
OS-01		Primary	03/09/91	Gross alpha	3.19 U	2.18	4	Filtered		IT
OS-01		Primary	03/09/91	Gross beta	5.91	2.6	4	Filtered		IT
OS-01		Primary	09/09/91	Gross alpha	1.37 U	1.83	4	Filtered		IT
OS-01		Primary	09/09/91	Gross beta	5.06	1.79	4	Filtered		IT
OS-01		Primary	12/09/91	Gross alpha	4.63	3.03	4	Filtered		IT
OS-01		Primary	12/09/91	Gross beta	5.79	2.01	4	Filtered		IT
OS-01		Primary	06/09/92	Gross alpha	-0.2 U	1.8	2	Filtered		CEP
OS-01		Primary	06/09/92	Gross beta	2 U	3	3	Filtered		CEP
OS-01		Primary	09/15/92	Gross alpha	0.3 U	2	2	Filtered		CEP
OS-01		Primary	09/15/92	Gross beta	3	3	3	Filtered		CEP
OS-01		Primary	12/17/92	Gross alpha	3	2	2	Filtered		CEP
OS-01		Primary	12/17/92	Gross beta	4	3	3	Filtered		CEP
OS-01		Primary	06/22/93	Gross alpha	3	2	2	Filtered	High statistics due to large amount of solids.	CEP
OS-01		Primary	06/22/93	Gross beta	17	4	3	Filtered		CEP
OS-01		Primary	08/23/93	Gross alpha	4	2	2	Filtered		CEP
OS-01		Primary	08/23/93	Gross beta	9	3	3	Filtered		CEP
OS-01		Primary	11/08/93	Gross alpha	3 U	3.1	4.6	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Private Off-site Wells										
OS-01		Primary	11/08/93	Gross beta	21.2	4.3	5.4	Filtered		LAS
OS-01		Primary	02/23/94	Gross alpha	2 U	3.4	6.1	Filtered		LAS
OS-01		Primary	02/23/94	Gross beta	4.6	2.7	4.2	Filtered		LAS
OS-01		Primary	08/15/94	Gross alpha	-1.1 U	2.4	6	Filtered		LAS
OS-01		Primary	08/15/94	Gross beta	3.6 U	3.4	5.5	Filtered		LAS
OS-02		Primary	06/05/89	Gross alpha	1.3 U	2.6	---	Unfiltered		BC
OS-02		Primary	06/05/89	Gross beta	-1 U	0.7	---	Unfiltered		BC
OS-02		Primary	07/24/89	Gross alpha	-1 U	4.1	---	Unfiltered, Decanted		BC
OS-02		Primary	07/24/89	Gross beta	4.2	1.4	---	Unfiltered, Decanted		BC
OS-02		Primary	09/13/89	Gross alpha	-1 U	1.7	---	Filtered		BC
OS-02		Primary	09/13/89	Gross alpha	2.9	2.9	---	Unfiltered		UST
OS-02		Primary	09/13/89	Gross beta	2.2	0.5	---	Filtered		BC
OS-02		Primary	09/13/89	Gross beta	8.5	0.8	---	Unfiltered		UST
OS-02		Primary	06/28/90	Gross alpha	2.28 U	2.85	---	Filtered		UST
OS-02		Primary	06/28/90	Gross beta	1.4 U	2.15	---	Filtered		UST
OS-02		Primary	12/11/90	Gross alpha	0.188 U	0.827	4	Filtered		IT
OS-02		Primary	12/11/90	Gross beta	2.1 U	2.26	4	Filtered		IT
OS-02		Primary	03/08/91	Gross alpha	4.73	3.42	4	Filtered		IT
OS-02		Duplicate	03/08/91	Gross alpha	2.83 U	3.11	4	Filtered		IT
OS-02		Primary	03/08/91	Gross beta	4.05	2.53	4	Filtered		IT
OS-02		Duplicate	03/08/91	Gross beta	1.46 U	2.53	4	Filtered		IT
OS-02		Primary	09/09/91	Gross alpha	0.825 U	1.66	4	Filtered		IT
OS-02		Primary	09/09/91	Gross beta	2.01 U	1.4	4	Filtered		IT
OS-02		Primary	12/09/91	Gross alpha	2.08 U	2.22	4	Filtered		IT
OS-02		Primary	12/09/91	Gross beta	1.88 U	1.45	4	Filtered		IT
OS-02		Primary	06/09/92	Gross alpha	-1 U	2	2	Filtered		CEP
OS-02		Primary	06/09/92	Gross beta	2 U	3	3	Filtered		CEP
OS-02		Primary	09/15/92	Gross alpha	1.5 U	2	2	Filtered		CEP
OS-02		Primary	09/15/92	Gross beta	1.8 U	3	3	Filtered		CEP
OS-02		Primary	12/17/92	Gross alpha	2 U	---	2	Filtered		CEP
OS-02		Primary	12/17/92	Gross beta	3 U	---	3	Filtered		CEP
OS-02		Primary	06/22/93	Gross alpha	2 U	---	2	Filtered		CEP
OS-02		Primary	06/22/93	Gross beta	7	3	3	Filtered		CEP
OS-02		Primary	08/23/93	Gross alpha	4	2	2	Filtered		CEP
OS-02		Primary	08/23/93	Gross beta	4	3	3	Filtered		CEP
OS-02		Primary	11/08/93	Gross alpha	1.1 U	2.2	4.1	Filtered		LAS
OS-02		Primary	11/08/93	Gross beta	1.5 U	2.7	4.6	Filtered		LAS
OS-02		Primary	02/23/94	Gross alpha	2.3 U	2.4	3.6	Filtered		LAS
OS-02		Primary	02/23/94	Gross beta	1.3 U	2.6	4.4	Filtered		LAS
OS-02		Primary	08/15/94	Gross alpha	0.6 U	2.4	4.8	Filtered		LAS
OS-02		Primary	08/15/94	Gross beta	1.3 U	3.2	5.5	Filtered		LAS
OS-03		Primary	06/05/89	Gross alpha	-1 U	3.1	---	Unfiltered		BC
OS-03		Primary	06/05/89	Gross beta	5.6	0.7	---	Unfiltered		BC

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Private Off-site Wells										
OS-03		Primary	07/24/89	Gross alpha	4.2	3.7	---	Unfiltered, Decanted		BC
OS-03		Primary	07/24/89	Gross beta	7.5	1.1	---	Unfiltered, Decanted		BC
OS-03		Primary	09/13/89	Gross alpha	-1 U	1.9	---	Filtered		BC
OS-03		Primary	09/13/89	Gross alpha	10.2	3.4	---	Unfiltered		UST
OS-03		Primary	09/13/89	Gross beta	5.6	0.7	---	Filtered		BC
OS-03		Primary	09/13/89	Gross beta	17.1	1	---	Unfiltered		UST
OS-03		Primary	12/11/90	Gross alpha	0.283 U	0.909	4	Filtered		IT
OS-03		Primary	12/11/90	Gross beta	3.76 U	2.53	4	Filtered		IT
OS-03		Primary	03/08/91	Gross alpha	1.79 U	1.61	4	Filtered		IT
OS-03		Primary	03/08/91	Gross beta	2.99 U	2.34	4	Filtered		IT
OS-03		Primary	12/09/91	Gross alpha	1.91 U	1.9	4	Filtered		IT
OS-03		Primary	12/09/91	Gross beta	3.04 U	1.61	4	Filtered		IT
OS-03		Primary	06/09/92	Gross alpha	-0.2 U	1.8	2	Filtered		CEP
OS-03		Primary	06/09/92	Gross beta	3	3	3	Filtered		CEP
OS-03		Primary	06/22/93	Gross alpha	4	3	2	Filtered	High statistics due to large amount of solids.	CEP
OS-03		Primary	06/22/93	Gross beta	13	7	3	Filtered		CEP
OS-03		Primary	08/23/93	Gross alpha	2 U	---	2	Filtered		CEP
OS-03		Primary	08/23/93	Gross beta	7	3	3	Filtered		CEP
OS-03		Primary	11/08/93	Gross alpha	-0.5 U	1.4	3.9	Filtered		LAS
OS-03		Primary	11/08/93	Gross beta	2.6 U	3.2	5.4	Filtered		LAS
OS-03		Primary	02/23/94	Gross alpha	0.8 U	2.4	4.7	Filtered		LAS
OS-03		Primary	02/23/94	Gross beta	3.9 U	2.7	4.4	Filtered		LAS
OS-03		Primary	08/15/94	Gross alpha	0.2 U	2.5	5.3	Filtered		LAS
OS-03		Primary	08/15/94	Gross beta	3.8 U	3.2	5.2	Filtered		LAS
OS-04		Primary	06/05/89	Gross alpha	-1 U	3	---	Unfiltered		BC
OS-04		Primary	06/05/89	Gross beta	3	0.7	---	Unfiltered		BC
OS-04		Primary	07/24/89	Gross alpha	5.1	2	---	Unfiltered, Decanted		BC
OS-04		Primary	07/24/89	Gross beta	12	0.8	---	Unfiltered, Decanted		BC
OS-04		Primary	09/13/89	Gross alpha	-1 U	2.3	---	Filtered		BC
OS-04		Primary	09/13/89	Gross alpha	5.2	3.3	---	Unfiltered		UST
OS-04		Primary	09/13/89	Gross beta	8.8	0.8	---	Filtered		BC
OS-04		Primary	09/13/89	Gross beta	14.1	1.1	---	Unfiltered		UST
OS-04		Primary	12/11/90	Gross alpha	0.731 U	1.39	4	Filtered		IT
OS-04		Primary	12/11/90	Gross beta	4.08	2.42	4	Filtered		IT
OS-04		Primary	06/09/92	Gross alpha	1 U	2	2	Filtered		CEP
OS-04		Primary	06/09/92	Gross beta	6	3	3	Filtered		CEP
OS-04		Primary	06/22/93	Gross alpha	3	2	2	Filtered	High statistics due to large amount of solids.	CEP
OS-04		Primary	06/22/93	Gross beta	10	3	3	Filtered		CEP
OS-04		Primary	08/23/93	Gross alpha	2 U	---	2	Filtered		CEP
OS-04		Primary	08/23/93	Gross beta	3 U	---	3	Filtered		CEP
OS-04		Primary	02/23/94	Gross alpha	1.3 U	3.4	6.4	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Private Off-site Wells										
OS-04		Primary	02/23/94	Gross beta	6.1	3.2	4.9	Filtered		LAS
OS-04		Primary	08/15/94	Gross alpha	1.5 U	2.9	5.3	Filtered		LAS
OS-04		Primary	08/15/94	Gross beta	3.9 U	3.6	5.9	Filtered		LAS
OS-05		Primary	06/05/89	Gross alpha	7.4	2.3	---	Unfiltered		BC
OS-05		Primary	06/05/89	Gross beta	7.3	0.6	---	Unfiltered		BC
OS-05		Primary	07/24/89	Gross alpha	6.4	2.1	---	Unfiltered, Decanted		BC
OS-05		Primary	07/24/89	Gross beta	9.2	0.9	---	Unfiltered, Decanted		BC
OS-05		Primary	09/13/89	Gross alpha	-1 U	2.7	---	Filtered		BC
OS-05		Primary	09/13/89	Gross alpha	-1 U	2.7	---	Unfiltered		UST
OS-05		Primary	09/13/89	Gross beta	11.7	1	---	Filtered		BC
OS-05		Primary	09/13/89	Gross beta	9.9	1	---	Unfiltered		UST
OS-05		Primary	03/27/90	Gross alpha	2.6 U	3.33	---	Filtered		UST
OS-05		Primary	03/27/90	Gross beta	4.3	2.57	---	Filtered		UST
OS-05		Primary	06/28/90	Gross alpha	2.8 U	3.67	---	Filtered		UST
OS-05		Primary	06/28/90	Gross beta	7.27	2.84	---	Filtered		UST
OS-05		Primary	09/14/90	Gross alpha	5.86	4.59	---	Filtered		UST
OS-05		Primary	09/14/90	Gross beta	9.76	5.05	---	Filtered		UST
OS-05		Primary	12/11/90	Gross alpha	0.515 U	1.12	4	Filtered		IT
OS-05		Primary	12/11/90	Gross beta	3.43 U	2.45	4	Filtered		IT
OS-05		Primary	03/08/91	Gross alpha	3.14 U	2.75	4	Filtered		IT
OS-05		Primary	03/08/91	Gross beta	4.17	2.42	4	Filtered		IT
OS-05		Primary	09/09/91	Gross alpha	5.58	5.7	4	Filtered		IT
OS-05		Primary	09/09/91	Gross beta	9.91	5.07	4	Filtered		IT
OS-05		Primary	12/09/91	Gross alpha	2.39 U	2.65	4	Filtered		IT
OS-05		Primary	12/09/91	Gross beta	6.23	2.31	4	Filtered		IT
OS-05		Primary	06/09/92	Gross alpha	-0.2 U	2	2	Filtered		CEP
OS-05		Primary	06/09/92	Gross beta	5	3	3	Filtered		CEP
OS-05		Primary	09/15/92	Gross alpha	1.9 U	2	2	Filtered		CEP
OS-05		Split	09/15/92	Gross alpha	1.2 U	6.3	---	Filtered		BL
OS-05		Primary	09/15/92	Gross beta	6	4	3	Filtered		CEP
OS-05		Split	09/15/92	Gross beta	12	8	---	Filtered		BL
OS-05		Primary	12/17/92	Gross alpha	3	2	2	Filtered		CEP
OS-05		Primary	12/17/92	Gross beta	7	4	3	Filtered		CEP
OS-05		Primary	06/22/93	Gross alpha	4	3	2	Filtered	High statistics due to large amount of solids.	CEP
OS-05		Primary	06/22/93	Gross beta	16	7	3	Filtered		CEP
OS-05		Primary	08/23/93	Gross alpha	2 U	---	2	Filtered		CEP
OS-05		Primary	08/23/93	Gross beta	3 U	---	3	Filtered		CEP
OS-05		Primary	11/08/93	Gross alpha	1.3 U	3.3	6.3	Filtered		LAS
OS-05		Primary	11/08/93	Gross beta	4.9 U	3.8	6.2	Filtered		LAS
OS-05		Primary	02/23/94	Gross alpha	5.2 U	4.7	7	Filtered		LAS
OS-05		Primary	02/23/94	Gross beta	7.4	3.6	5.5	Filtered		LAS
OS-08		Primary	06/05/89	Gross alpha	-1 U	3	---	Unfiltered		BC
OS-08		Primary	06/05/89	Gross beta	3.8	0.5	---	Unfiltered		BC

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Private Off-site Wells										
OS-08		Primary	07/24/89	Gross alpha	1.2	1.2	---	Unfiltered, Decanted		BC
OS-08		Primary	07/24/89	Gross beta	4.5	0.5	---	Unfiltered, Decanted		BC
OS-08		Primary	09/13/89	Gross alpha	-1 U	2.2	---	Filtered		BC
OS-08		Primary	09/13/89	Gross alpha	1.5 U	2.6	---	Unfiltered		UST
OS-08		Primary	09/13/89	Gross beta	-1 U	0.7	---	Filtered		BC
OS-08		Primary	09/13/89	Gross beta	1.6	0.8	---	Unfiltered		UST
OS-08		Primary	06/09/92	Gross alpha	0 U	2	2	Filtered		CEP
OS-08		Primary	06/09/92	Gross beta	1 U	3	3	Filtered		CEP
OS-08		Primary	06/22/93	Gross alpha	2 U	---	2	Filtered		CEP
OS-08		Primary	06/22/93	Gross beta	10	3	3	Filtered		CEP
OS-08		Primary	08/15/94	Gross alpha	0.2 U	3.3	6.9	Filtered		LAS
OS-08		Primary	08/15/94	Gross beta	2.1 U	4.4	7.6	Filtered		LAS
OS-09R		Primary	01/26/04	Gross alpha	1.29 U	1.6	2.52	Filtered		ES
OS-09R		Primary	01/26/04	Gross beta	0.54 U	1.6	2.64	Filtered		ES
OS-10		Primary	06/05/89	Gross alpha	-1 U	1.9	---	Unfiltered		BC
OS-10		Primary	06/05/89	Gross beta	4.7	0.5	---	Unfiltered		BC
OS-10		Primary	07/24/89	Gross alpha	2.2	1.4	---	Unfiltered, Decanted		BC
OS-10		Primary	07/24/89	Gross beta	4.2	0.6	---	Unfiltered, Decanted		BC
OS-10		Primary	09/13/89	Gross alpha	-1 U	1.6	---	Filtered		BC
OS-10		Primary	09/13/89	Gross alpha	-1 U	1.8	---	Unfiltered		UST
OS-10		Primary	09/13/89	Gross beta	-1 U	0.6	---	Filtered		BC
OS-10		Primary	09/13/89	Gross beta	-1 U	0.6	---	Unfiltered		UST
OS-10		Primary	12/09/91	Gross alpha	0.749 U	1.57	4	Filtered		IT
OS-10		Primary	12/09/91	Gross beta	0.444 U	1.09	4	Filtered		IT
OS-12		Primary	06/04/89	Gross alpha	74.9	35.6	---	Unfiltered		BC
OS-12		Primary	06/04/89	Gross beta	129.5	8.1	---	Unfiltered		BC
OS-12		Primary	07/23/89	Gross alpha	48	27	---	Unfiltered		FGL
OS-12		Primary	07/23/89	Gross alpha	2.6	0.9	---	Unfiltered, Decanted		BC
OS-12		Primary	07/23/89	Gross beta	67	31	---	Unfiltered		FGL
OS-12		Primary	07/23/89	Gross beta	12.4	3.2	---	Unfiltered, Decanted		BC
OS-15		Primary	06/07/89	Gross alpha	18.5	4.7	---	Unfiltered		BC
OS-15		Primary	06/07/89	Gross beta	4.7	1.6	---	Unfiltered		BC
OS-15		Primary	07/23/89	Gross alpha	11.6	1.1	---	Unfiltered, Decanted		BC
OS-15		Primary	07/23/89	Gross beta	40.1	1.1	---	Unfiltered, Decanted		BC
OS-15		Primary	12/10/91	Gross alpha	3.39 U	4.83	4	Filtered		IT
OS-15		Primary	12/10/91	Gross beta	10.9	4.69	4	Filtered		IT
OS-16		Primary	06/05/89	Gross alpha	4.8	2.3	---	Unfiltered		BC
OS-16		Primary	06/05/89	Gross beta	4.7	0.5	---	Unfiltered		BC

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Private Off-site Wells										
OS-16		Primary	07/22/89	Gross alpha	10.8	2.1	---	Unfiltered, Decanted		BC
OS-16		Primary	07/22/89	Gross beta	8.6	0.5	---	Unfiltered, Decanted		BC
OS-16		Primary	09/14/89	Gross alpha	3.2	2.5	---	Filtered		BC
OS-16		Primary	09/14/89	Gross alpha	5.3	2.6	---	Unfiltered		UST
OS-16		Primary	09/14/89	Gross beta	5.2	0.9	---	Filtered		BC
OS-16		Primary	09/14/89	Gross beta	5.8	1.1	---	Unfiltered		UST
OS-16		Primary	10/19/89	Gross alpha	5.54	2.72	---	Filtered		UST
OS-16		Duplicate	10/19/89	Gross alpha	5.11	2.59	---	Filtered		UST
OS-16		Primary	10/19/89	Gross beta	5.04	1.99	---	Filtered		UST
OS-16		Duplicate	10/19/89	Gross beta	4.27	1.82	---	Filtered		UST
OS-16		Primary	11/01/89	Gross alpha	4.39	2.73	---	Filtered		UST
OS-16		Primary	11/01/89	Gross alpha	2.57	2.2	---	Unfiltered		UST
OS-16		Duplicate	11/01/89	Gross alpha	5.06	2.95	---	Filtered		UST
OS-16		Duplicate	11/01/89	Gross alpha	4.05	2.65	---	Unfiltered		UST
OS-16		Primary	11/01/89	Gross beta	6.73	2.59	---	Filtered		UST
OS-16		Primary	11/01/89	Gross beta	6.75	2.92	---	Unfiltered		UST
OS-16		Duplicate	11/01/89	Gross beta	6.99	2.72	---	Filtered		UST
OS-16		Duplicate	11/01/89	Gross beta	4.29	2.59	---	Unfiltered		UST
OS-16		Primary	09/09/91	Gross alpha	15	6.32	4	Filtered		IT
OS-16		Primary	09/09/91	Gross beta	8.23	3.82	4	Filtered		IT
OS-16		Primary	12/10/91	Gross alpha	1.65 U	2.07	4	Filtered		IT
OS-16		Primary	12/10/91	Gross beta	1.59 U	1.75	4	Filtered		IT
OS-16		Primary	03/12/92	Gross alpha	5	3	2	Filtered		CEP
OS-16		Primary	03/12/92	Gross beta	5	3	3	Filtered		CEP
OS-17		Primary	06/04/89	Gross alpha	8.4	2.8	---	Unfiltered		BC
OS-17		Primary	06/04/89	Gross beta	13.9	0.7	---	Unfiltered		BC
OS-17		Primary	07/22/89	Gross alpha	4.5	1.7	---	Unfiltered, Decanted		BC
OS-17		Primary	07/22/89	Gross beta	10.7	0.5	---	Unfiltered, Decanted		BC
OS-17		Primary	09/13/89	Gross alpha	1.4 U	3.5	---	Filtered		BC
OS-17		Primary	09/13/89	Gross alpha	2.5 U	3.4	---	Unfiltered		UST
OS-17		Primary	09/13/89	Gross beta	7.6	1.4	---	Filtered		BC
OS-17		Primary	09/13/89	Gross beta	12.8	1.4	---	Unfiltered		UST
OS-17		Primary	09/12/91	Gross alpha	3.07 U	3.35	4	Filtered		IT
OS-17		Primary	09/12/91	Gross beta	4.21	2.66	4	Filtered		IT
OS-17		Primary	12/10/91	Gross alpha	1.64 U	2.49	4	Filtered		IT
OS-17		Primary	12/10/91	Gross beta	3.37 U	2.26	4	Filtered		IT
OS-17		Primary	03/12/92	Gross alpha	2 U	---	2	Filtered		CEP
OS-17		Primary	03/12/92	Gross beta	6	3	3	Filtered		CEP
OS-21		Primary	06/06/89	Gross alpha	-1 U	3	---	Unfiltered		BC
OS-21		Primary	06/06/89	Gross beta	7.1	0.7	---	Unfiltered		BC
OS-21		Primary	07/23/89	Gross alpha	1.6	1.5	---	Unfiltered, Decanted		BC

See last page of table for notes and abbreviations.

TABLE E-I

RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample	Lab
Private Off-site Wells										
OS-21		Primary	07/23/89	Gross beta	5.5	0.4	---	Unfiltered, Decanted		BC
OS-21		Primary	09/09/89	Gross alpha	3	1.5	---	Filtered		BC
OS-21		Primary	09/09/89	Gross alpha	-1 U	1.2	---	Unfiltered		UST
OS-21		Primary	09/09/89	Gross beta	10	0.4	---	Filtered		BC
OS-21		Primary	09/09/89	Gross beta	10	0.4	---	Unfiltered		UST
OS-21		Primary	10/19/89	Gross alpha	1.08 U	1.56	---	Filtered		UST
OS-21		Primary	10/19/89	Gross beta	2.91	1.78	---	Filtered		UST
OS-21		Primary	11/01/89	Gross alpha	1.42 U	1.9	---	Filtered		UST
OS-21		Primary	11/01/89	Gross alpha	2.82	2.18	---	Unfiltered		UST
OS-21		Primary	11/01/89	Gross beta	3.56	2.52	---	Filtered		UST
OS-21		Primary	11/01/89	Gross beta	6.83	2.83	---	Unfiltered		UST
OS-21		Primary	03/09/91	Gross alpha	0.804 U	1.7	4	Filtered		IT
OS-21		Primary	03/09/91	Gross beta	4.13	2.44	4	Filtered		IT
OS-21		Primary	12/10/91	Gross alpha	1.55 U	2.31	4	Filtered		IT
OS-21		Primary	12/10/91	Gross beta	2.59 U	1.92	4	Filtered		IT
OS-21		Primary	03/12/92	Gross alpha	2 U	---	2	Filtered		CEP
OS-21		Primary	03/12/92	Gross beta	3 U	---	3	Filtered		CEP
OS-21		Primary	03/19/93	Gross alpha	2 U	---	2	Filtered		CEP
OS-21		Primary	03/19/93	Gross beta	3 U	---	3	Filtered		CEP
OS-22		Primary	06/27/89	Gross alpha	8.5	3.4	---	Unfiltered		BC
OS-22		Primary	06/27/89	Gross beta	11	1	---	Unfiltered		BC
OS-23		Primary	06/28/89	Gross alpha	14.6	4	---	Unfiltered		BC
OS-23		Primary	06/28/89	Gross beta	16.6	1.1	---	Unfiltered		BC
OS-27		Primary	05/15/97	Gross alpha	5.2 U	4.2	5.9	Filtered		LAS
OS-27		Primary	05/15/97	Gross beta	4.3 U	3.5	5.6	Filtered		LAS
Municipal Water Supply										
Calleguas		Primary	12/14/90	Gross alpha	-0.00286 U	0.418	4	Filtered		IT
Calleguas		Primary	12/14/90	Gross beta	5.5	2.42	4	Filtered		IT
Calleguas		Primary	03/10/91	Gross alpha	0.82 U	1.07	4	Filtered		IT
Calleguas		Primary	03/10/91	Gross beta	3.05 U	2.28	4	Filtered		IT
Calleguas		Primary	03/12/92	Gross alpha	2 U	---	2	Filtered		CEP
Calleguas		Primary	03/12/92	Gross beta	5	3	3	Filtered		CEP
Calleguas		Primary	09/22/92	Gross alpha	0.7 U	2	2	Filtered		CEP
Calleguas		Primary	09/22/92	Gross beta	1.8 U	2.3	3	Filtered		CEP
Facility Water		Primary	08/10/04	Gross alpha	0.39 U	1	1.67	Unfiltered		ES
Facility Water		Primary	08/10/04	Gross beta	2.64 J	1.4	2.03	Unfiltered		ES
Facility Fire Hydrant										
Hydrant Water		Primary	03/16/04	Gross alpha	-0.161 U	0.8	1.6	Unfiltered		ES
Hydrant Water		Primary	03/16/04	Gross beta	3.62 J	1.6	2.06	Unfiltered		ES
Effluent										
RD-63 Effluent		Primary	10/06/94	Gross alpha	4.7	4.1	---	Filtered	Pilot extraction effluent.	LAS
RD-63 Effluent		Primary	10/06/94	Gross beta	9.4	4.1	---	Filtered	Pilot extraction effluent.	LAS

See last page of table for notes and abbreviations.

TABLE E-I
RESULTS OF ANALYSES FOR GROSS ALPHA AND GROSS BETA RADIOACTIVITY
IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

NOTES AND ABBREVIATIONS

BC = BC Laboratories, Bakersfield, California
BL = Barringer Laboratories, Inc., Golden, Colorado
CEP = Controls for Environmental Pollution, Santa Fe, New Mexico
DL = Davi Laboratories, Pinole, California
ES = Eberline Services, (formerly Thermo Retec), Richmond, California
FGL = FGL Environmental, Santa Paula, California
IT = International Technologies, Inc., (formerly United States Testing), Richland, Washington
LAS = LAS Laboratories, (formerly Lockheed Martin), Las Vegas, Nevada
STL = Severn Trent Laboratories, (formerly International Technologies, Inc.), Richland, Washington
TEL = Teledyne Isotopes, Westwood, New Jersey
TMA = Thermoanalytical Inc. (TMA/NORCAL), Richmond, California
TN = Thermo NUtech, (formerly Thermoanalytical Inc. (TMA/NORCAL)), Richmond, California
TR = Thermo Retec, (formerly Thermo NUtech), Richmond, California
UST = United States Testing, Richland, Washington

MDA	=	Minimum detectable activity.
Z	=	FLUTe sample port number.
---	=	Data do not exist.
J	=	Result is less than contract-required MDA and greater than or equal to the MDA.
R	=	Rejected.
U	=	Not detected above the MDA; numerical value is the activity for the radionuclide.
pCi/L	=	PicoCuries per liter.

NOTES:
All samples analyzed according to EPA method 900.0, Gross Alpha and Gross Beta Radioactivity.

Any activity detected is reported by the laboratory, though the reported activity may be less than the overall laboratory error. Analytical results that are less than the instrument background count are shown as negative values.

Filtered samples were collected using a 0.45 micron filter in the field.

As discussed in Appendix D, project specific MDAs were not always attained due in part to matrix conditions (e.g., dissolved and suspended solids) and limitations in the prescribed analytical methods (e.g., sample volumes, counting times).

TABLE E-II
RESULTS OF ANALYSES FOR TRITIUM IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Shallow Wells										
ES-06		Primary	05/04/94	Tritium	-70 U	110	240	Unfiltered		LAS
ES-08		Primary	05/26/94	Tritium	-100 U	100	230	Unfiltered		LAS
ES-24		Primary	09/10/89	Tritium	-62.7 U	124	---	Unfiltered		UST
ES-24		Duplicate	09/10/89	Tritium	-58 U	126	---	Unfiltered		UST
ES-24		Split	09/10/89	Tritium	1000 U	---	1000	Unfiltered		TMA
ES-24		Split	09/10/89	Tritium	1000 U	---	1000	Unfiltered		TMA
ES-31		Primary	12/10/90	Tritium	49.9 U	196	500	Unfiltered		IT
ES-31		Primary	03/04/91	Tritium	590	221	500	Unfiltered		IT
ES-31		Duplicate	03/04/91	Tritium	159 U	197	500	Unfiltered		IT
ES-31		Primary	06/03/91	Tritium	7.7 U	194	500	Unfiltered		IT
ES-31		Primary	09/07/91	Tritium	-48.1 U	196	500	Unfiltered		IT
ES-31		Primary	12/07/91	Tritium	-89.6 U	206	500	Unfiltered		IT
ES-31		Primary	03/05/92	Tritium	500 U	---	500	Unfiltered		CEP
ES-31		Primary	03/03/93	Tritium	300 U	326	500	Unfiltered		CEP
ES-31		Primary	02/22/94	Tritium	0 U	150	280	Unfiltered		LAS
ES-31		Primary	02/15/95	Tritium	-40 U	180	260	Unfiltered		LAS
ES-31		Primary	02/06/96	Tritium	-120 U	140	220	Unfiltered		LAS
ES-31		Primary	02/04/97	Tritium	155	64	96	Unfiltered		LAS
ES-31		Primary	02/04/98	Tritium	38.4 U	120	198	Unfiltered		TN
ES-31		Primary	02/06/99	Tritium	62.7 U	100	172	Unfiltered		TN
ES-31		Primary	02/06/00	Tritium	0 U	120	207	Unfiltered		TN
ES-31		Primary	02/15/01	Tritium	24.8 U	120	201	Unfiltered		ES
ES-31		Primary	02/18/02	Tritium	65 U	121	384	Unfiltered		DL
ES-31		Primary	02/19/03	Tritium	21.1 U	110	191	Unfiltered		ES
ES-31		Primary	02/01/08	Tritium	36.8 U	83	138	Unfiltered		ES
HAR-03		Primary	09/11/89	Tritium	-4.78 U	121	---	Unfiltered		UST
HAR-03		Split	09/11/89	Tritium	1000 U	---	1000	Unfiltered		TMA
HAR-04		Primary	09/11/89	Tritium	-185 U	115	---	Unfiltered		UST
HAR-04		Split	09/11/89	Tritium	1000 U	---	1000	Unfiltered		TMA
HAR-04		Split	09/11/89	Tritium	1000 U	---	1000	Unfiltered		TMA
HAR-14		Primary	09/12/89	Tritium	-22.9 U	124	---	Unfiltered		UST
HAR-14		Split	09/12/89	Tritium	1000 U	---	1000	Unfiltered		TMA
HAR-30		Primary	09/12/89	Tritium	-45 U	129	---	Unfiltered		UST
HAR-30		Split	09/12/89	Tritium	1000 U	---	1000	Unfiltered		TMA
RS-07		Primary	09/11/89	Tritium	-74.6 U	120	---	Unfiltered		UST
RS-07		Split	09/11/89	Tritium	100 U	---	100	Unfiltered		TMA
RS-11		Primary	12/06/90	Tritium	43.2 U	200	500	Unfiltered		IT
RS-11		Primary	03/04/91	Tritium	58.2 U	192	500	Unfiltered		IT
RS-11		Primary	12/07/91	Tritium	12 U	212	500	Unfiltered		IT
RS-11		Primary	03/05/92	Tritium	500 U	---	500	Unfiltered		CEP
RS-11		Primary	03/07/93	Tritium	378 U	437	500	Unfiltered		CEP
RS-11		Primary	02/22/94	Tritium	-80 U	130	280	Unfiltered		LAS
RS-11		Primary	02/15/95	Tritium	30 U	190	260	Unfiltered		LAS
RS-11		Primary	02/07/96	Tritium	-20 U	160	220	Unfiltered		LAS

See last page of table for notes and abbreviations.

TABLE E-II
RESULTS OF ANALYSES FOR TRITIUM IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Shallow Wells										
RS-11		Primary	02/04/97	Tritium	117	59	90	Unfiltered		LAS
RS-11		Primary	02/04/98	Tritium	-50.7 U	120	202	Unfiltered		TN
RS-11		Primary	02/06/99	Tritium	80.1 U	110	174	Unfiltered		TN
RS-11		Primary	02/15/00	Tritium	45.4 U	110	191	Unfiltered		TN
RS-11		Primary	02/06/01	Tritium	-11.1 U	98	168	Unfiltered		ES
RS-11		Primary	05/01/03	Tritium	17.6 U	100	172	Unfiltered		ES
RS-11		Primary	05/02/08	Tritium	-53.2 U	92	159	Unfiltered		ES
RS-13		Primary	09/09/89	Tritium	-148 U	121	---	Unfiltered		UST
RS-13		Split	09/09/89	Tritium	1000 U	---	1000	Unfiltered		TMA
RS-14		Primary	09/10/89	Tritium	-116 U	122	---	Unfiltered		UST
RS-14		Duplicate	09/10/89	Tritium	-39.3 U	129	---	Unfiltered		UST
RS-14		Split	09/10/89	Tritium	1000 U	---	1000	Unfiltered		TMA
RS-14		Split	09/10/89	Tritium	1000 U	---	1000	Unfiltered		TMA
RS-16		Primary	03/09/92	Tritium	500 U	---	500	Unfiltered		CEP
RS-16		Primary	06/23/93	Tritium	25 U	442	500	Unfiltered		CEP
RS-16		Primary	02/09/95	Tritium	-60 U	190	270	Unfiltered		LAS
RS-16		Primary	02/04/97	Tritium	353	75	92	Unfiltered		LAS
RS-16		Primary	05/27/98	Tritium	-41.3 U	120	205	Unfiltered		TN
RS-16		Primary	02/01/08	Tritium	24.3 U	81	136	Unfiltered		ES
RS-17		Primary	12/10/90	Tritium	61 U	197	500	Unfiltered		IT
RS-17		Primary	12/07/91	Tritium	-5.54 U	211	500	Unfiltered		IT
RS-17		Primary	12/05/92	Tritium	-297 U	499	500	Unfiltered		CEP
RS-18		Primary	03/10/91	Tritium	102	195	10	Unfiltered		IT
RS-18		Duplicate	03/10/91	Tritium	75.8	194	10	Unfiltered		IT
RS-18		Primary	03/04/92	Tritium	-200 U	496	500	Unfiltered		CEP
RS-18		Primary	12/15/92	Tritium	434 U	495	500	Unfiltered		CEP
RS-18		Primary	06/23/93	Tritium	-133 U	500	500	Unfiltered		CEP
RS-18		Primary	11/06/93	Tritium	230	140	220	Unfiltered		LAS
RS-18		Primary	05/04/94	Tritium	230	160	230	Unfiltered		LAS
RS-18		Primary	02/17/95	Tritium	40 U	190	260	Unfiltered		LAS
RS-18		Primary	08/10/95	Tritium	30 U	210	290	Unfiltered		LAS
RS-18		Primary	05/16/96	Tritium	140 U	190	220	Unfiltered		LAS
RS-18		Primary	02/03/97	Tritium	255	69	93	Unfiltered		LAS
RS-18		Primary	02/05/98	Tritium	25.9 U	120	206	Unfiltered		TN
RS-18		Primary	08/05/98	Tritium	138 U	130	212	Unfiltered		TN
RS-18		Primary	05/12/99	Tritium	135 U	110	178	Unfiltered		TN
RS-18		Primary	05/09/00	Tritium	-1.1 U	12	20.6	Unfiltered		TR
RS-18		Primary	02/19/01	Tritium	124 U	120	201	Unfiltered		ES
RS-18		Primary	05/02/03	Tritium	68.7 U	110	177	Unfiltered		ES
RS-18		Primary	02/04/08	Tritium	26.8 U	82	137	Unfiltered		ES
RS-25		Primary	02/25/03	Tritium	45.9 U	110	186	Unfiltered		ES
RS-25		Primary	02/13/08	Tritium	-71.1 U	88	154	Unfiltered		ES
RS-27		Primary	03/04/92	Tritium	-472 U	498	500	Unfiltered		CEP
RS-27		Primary	05/17/95	Tritium	60 U	190	230	Unfiltered		LAS
RS-27		Primary	05/07/98	Tritium	-182 U	120	220	Unfiltered		TN

See last page of table for notes and abbreviations.

TABLE E-II
RESULTS OF ANALYSES FOR TRITIUM IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Shallow Wells										
RS-28		Primary	10/19/89	Tritium	47 U	195	---	Unfiltered		UST
RS-28		Primary	12/06/90	Tritium	-25 U	197	500	Unfiltered		IT
RS-28		Primary	03/09/91	Tritium	198 U	192	500	Unfiltered		IT
RS-28		Primary	12/06/91	Tritium	86.9 U	216	500	Unfiltered		IT
RS-28		Primary	03/06/92	Tritium	500 U	---	500	Unfiltered		IT
RS-28		Primary	03/09/92	Tritium	500 U	---	500	Unfiltered		CEP
RS-28		Primary	06/22/93	Tritium	-393 U	500	500	Unfiltered		CEP
RS-28		Primary	11/06/93	Tritium	70 U	120	210	Unfiltered		LAS
RS-28		Primary	05/07/94	Tritium	30 U	130	230	Unfiltered		LAS
RS-28		Primary	05/17/95	Tritium	20 U	180	230	Unfiltered		LAS
RS-28		Primary	11/08/95	Tritium	120 U	210	---	Unfiltered		LAS
RS-28		Primary	05/16/96	Tritium	100 U	180	220	Unfiltered		LAS
RS-28		Primary	05/08/98	Tritium	-168 U	120	209	Unfiltered		TN
RS-28		Primary	11/16/98	Tritium	60.9 U	130	209	Unfiltered		TN
RS-28		Primary	05/05/00	Tritium	-12.3 U	12	20.6	Unfiltered		TR
RS-28		Primary	05/10/01	Tritium	6.37 U	120	202	Unfiltered		ES
RS-28		Primary	02/06/08	Tritium	-91.9 U	86	150	Unfiltered		ES
RS-54		Primary	09/11/93	Tritium	1099	707	500	Unfiltered		CEP
RS-54		Primary	09/29/93	Tritium	-98 U	500	500	Unfiltered		CEP
RS-54		Primary	05/07/94	Tritium	80 U	140	240	Unfiltered		LAS
RS-54		Primary	08/07/94	Tritium	200 U	170	270	Unfiltered		LAS
RS-54		Primary	08/03/95	Tritium	50 U	220	280	Unfiltered		LAS
RS-54		Primary	05/16/96	Tritium	80 U	180	230	Unfiltered		LAS
RS-54		Primary	08/23/96	Tritium	160 U	140	220	Unfiltered		LAS
RS-54		Primary	05/03/97	Tritium	120 U	120	200	Unfiltered		LAS
RS-54		Primary	08/02/97	Tritium	40 U	120	210	Unfiltered		LAS
RS-54		Primary	08/27/97	Tritium	50 U	110	190	Unfiltered		LAS
RS-54		Primary	02/08/98	Tritium	134 U	120	196	Unfiltered		TN
RS-54		Primary	05/28/98	Tritium	69.4 U	120	192	Unfiltered		TN
RS-54		Primary	08/04/98	Tritium	36.8 U	120	210	Unfiltered		TN
RS-54		Primary	02/02/99	Tritium	85.4 U	100	166	Unfiltered		TN
RS-54		Primary	08/18/99	Tritium	66.4 U	96	159	Unfiltered		TN
RS-54		Primary	03/15/00	Tritium	144 U	110	181	Unfiltered		TN
RS-54		Primary	11/01/01	Tritium	64 U	108	249	Unfiltered		DL
RS-54		Primary	03/01/02	Tritium	332 U	58	350	Unfiltered		DL
RS-54		Primary	11/07/02	Tritium	1.83 U	110	186	Unfiltered		ES
RS-54		Primary	02/22/08	Tritium	76.9 U	93	153	Unfiltered		ES
RS-54		Primary	09/04/08	Tritium	-63.5 U	92	158	Unfiltered		ES
SH-04		Primary	09/09/89	Tritium	-75.8 U	124	---	Unfiltered		UST
SH-04		Split	09/09/89	Tritium	1000 U	---	1000	Unfiltered		TMA
SH-05		Primary	11/29/89	Tritium	-202 U	239	---	Unfiltered		UST
SH-06		Primary	11/29/89	Tritium	-12.2 U	249	---	Unfiltered		UST
SH-07		Primary	09/09/89	Tritium	-80.5 U	124	---	Unfiltered		UST
SH-07		Split	09/09/89	Tritium	1000 U	---	1000	Unfiltered		TMA
SH-07		Primary	11/29/89	Tritium	-258 U	235	---	Unfiltered		UST

See last page of table for notes and abbreviations.

TABLE E-II

RESULTS OF ANALYSES FOR TRITIUM IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Shallow Wells										
SH-11		Primary	09/09/89	Tritium	-43.1 U	126	---	Unfiltered		UST
SH-11		Split	09/09/89	Tritium	1000 U	---	1000	Unfiltered		TMA
Chatsworth Formation Wells										
HAR-06		Primary	09/14/89	Tritium	45.9 U	133	---	Unfiltered		UST
HAR-06		Split	09/14/89	Tritium	1000 U	---	1000	Unfiltered		TMA
HAR-07		Primary	09/09/89	Tritium	-88.9 U	128	---	Unfiltered		UST
HAR-07		Split	09/09/89	Tritium	1000 U	---	1000	Unfiltered		TMA
HAR-16		Primary	09/09/89	Tritium	-57.4 U	126	---	Unfiltered		UST
HAR-16		Split	09/09/89	Tritium	1000 U	---	1000	Unfiltered		TMA
HAR-18		Primary	09/11/89	Tritium	-68.4 U	133	---	Unfiltered		UST
HAR-18		Split	09/11/89	Tritium	1000 U	---	1000	Unfiltered		TMA
HAR-19		Primary	09/09/89	Tritium	329	137	---	Unfiltered		UST
HAR-19		Split	09/09/89	Tritium	1000 U	---	1000	Unfiltered		TMA
HAR-19		Primary	06/28/90	Tritium	12.9 U	212	---	Unfiltered		UST
HAR-20		Primary	09/09/89	Tritium	-65 U	125	---	Unfiltered		UST
HAR-20		Split	09/09/89	Tritium	1000 U	---	1000	Unfiltered		TMA
HAR-21		Primary	09/09/89	Tritium	-39.2 U	121	---	Unfiltered		UST
HAR-21		Split	09/09/89	Tritium	1000 U	---	1000	Unfiltered		TMA
RD-01		Primary	09/11/89	Tritium	123 U	137	---	Unfiltered		UST
RD-01		Split	09/11/89	Tritium	1000 U	---	1000	Unfiltered		TMA
RD-03		Primary	09/10/89	Tritium	-155 U	122	---	Unfiltered		UST
RD-03		Split	09/10/89	Tritium	1000 U	---	1000	Unfiltered		TMA
RD-03		Split	09/11/89	Tritium	1000 U	---	1000	Unfiltered		TMA
RD-03		Primary	09/12/89	Tritium	-129 U	117	---	Unfiltered		UST
RD-05B		Primary	09/10/89	Tritium	-10.3 U	128	---	Unfiltered		UST
RD-05B		Split	09/10/89	Tritium	1000 U	---	1000	Unfiltered		TMA
RD-05B		Primary	09/10/91	Tritium	144 U	202	500	Unfiltered		IT
RD-06		Primary	09/10/89	Tritium	-44 U	126	---	Unfiltered		UST
RD-06		Split	09/10/89	Tritium	1000 U	---	1000	Unfiltered		TMA
RD-06		Primary	03/06/91	Tritium	83.1 U	193	500	Unfiltered		IT
RD-06		Primary	09/10/91	Tritium	58.6 U	197	500	Unfiltered		IT
RD-06		Primary	03/10/92	Tritium	500 U	---	500	Unfiltered		CEP
RD-06		Primary	08/06/95	Tritium	23.5	5.9	5.8	Unfiltered		LAS
RD-07		Primary	09/11/89	Tritium	-101 U	128	---	Unfiltered		UST
RD-07		Split	09/11/89	Tritium	1000 U	---	1000	Unfiltered		TMA
RD-07		Primary	12/05/90	Tritium	-8.63 U	201	500	Unfiltered		IT
RD-07		Primary	03/09/91	Tritium	32.3 U	192	500	Unfiltered		IT
RD-07		Primary	12/07/91	Tritium	68.4 U	215	500	Unfiltered		IT
RD-07		Primary	03/06/92	Tritium	500 U	---	500	Unfiltered		CEP
RD-07		Primary	03/07/93	Tritium	342 U	429	500	Unfiltered		CEP
RD-07		Primary	02/27/94	Tritium	100 U	160	280	Unfiltered		LAS
RD-07		Primary	08/09/94	Tritium	-10 U	140	270	Unfiltered		LAS
RD-07		Primary	02/09/95	Tritium	90 U	200	260	Unfiltered		LAS

See last page of table for notes and abbreviations.

TABLE E-II
RESULTS OF ANALYSES FOR TRITIUM IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-07		Duplicate	02/09/95	Tritium	-30 U	190	260	Unfiltered		LAS
RD-07		Primary	08/04/95	Tritium	-10 U	210	280	Unfiltered		LAS
RD-07		Primary	02/07/96	Tritium	30 U	160	220	Unfiltered		LAS
RD-07		Primary	08/18/96	Tritium	-40 U	110	220	Unfiltered		LAS
RD-07		Primary	02/25/97	Tritium	60 U	120	210	Unfiltered		LAS
RD-07		Primary	08/25/97	Tritium	-9 U	99	190	Unfiltered		LAS
RD-07		Primary	02/05/98	Tritium	16.4 U	120	205	Unfiltered		TN
RD-07		Primary	08/05/98	Tritium	-48.2 U	130	219	Unfiltered		TN
RD-07		Primary	02/06/99	Tritium	59.3 U	100	168	Unfiltered		TN
RD-07		Primary	08/19/99	Tritium	-18.1 U	96	165	Unfiltered		TN
RD-07		Primary	03/16/00	Tritium	-21.1 U	110	181	Unfiltered		TN
RD-07		Primary	08/10/00	Tritium	-33 U	130	225	Unfiltered		TR
RD-07		Primary	02/23/01	Tritium	51.2 U	130	214	Unfiltered		ES
RD-07		Primary	11/07/01	Tritium	0 U	77	264	Unfiltered		DL
RD-07		Primary	02/22/02	Tritium	0 U	200	252	Unfiltered		DL
RD-07	Z13	Primary	08/20/02	Tritium	-10.6 U	120	203	Unfiltered		ES
RD-07	Z3	Primary	01/29/03	Tritium	0 U	110	182	Unfiltered		ES
RD-07	Z3	Primary	02/10/03	Tritium	0 U	110	182	Unfiltered		ES
RD-07	Z13	Primary	08/28/03	Tritium	-37.4 U	110	188	Unfiltered		ES
RD-07	Z4	Primary	08/25/04	Tritium	-65.3 U	100	173	Unfiltered		ES
RD-07	Z5	Primary	08/25/04	Tritium	-82 U	97	169	Unfiltered		ES
RD-07	Z6	Primary	08/25/04	Tritium	-44.7 U	99	171	Unfiltered		ES
RD-07	Z7	Primary	08/25/04	Tritium	22 U	100	174	Unfiltered		ES
RD-07	Z8	Primary	08/25/04	Tritium	-88 U	98	171	Unfiltered		ES
RD-07	Z9	Primary	08/25/04	Tritium	-14.8 U	100	170	Unfiltered		ES
RD-07	Z10	Primary	08/25/04	Tritium	-86 U	100	174	Unfiltered		ES
RD-07	Z11	Primary	08/25/04	Tritium	-79.4 U	98	170	Unfiltered		ES
RD-07	Z12	Primary	08/25/04	Tritium	-41.8 U	100	172	Unfiltered		ES
RD-07	Z13	Primary	08/25/04	Tritium	-35.4 U	100	174	Unfiltered		ES
RD-07	Z3	Primary	02/17/05	Tritium	41.8 U	150	255	Unfiltered		ES
RD-07	Z3	Primary	08/31/05	Tritium	23.6 U	160	271	Unfiltered		ES
RD-07	Z3	Primary	02/16/06	Tritium	59 U	90	162	Unfiltered		ES
RD-07	Z3	Primary	08/16/06	Tritium	-24.7 U	95	160	Unfiltered		ES
RD-07	Z3	Primary	02/08/07	Tritium	22.8 U	52	85.7	Unfiltered		ES
RD-07	Z3	Primary	08/09/07	Tritium	-56.7 U	58	98.6	Unfiltered		ES
RD-07	Z3	Primary	02/05/08	Tritium	78.6 U	84	138	Unfiltered		ES
RD-07	Z3	Primary	08/06/08	Tritium	-39.7 U	100	176	Unfiltered		ES
RD-08		Primary	09/11/89	Tritium	-136 U	126	---	Unfiltered		UST
RD-08		Split	09/11/89	Tritium	1000 U	---	1000	Unfiltered		TMA
RD-10		Primary	09/10/89	Tritium	-72.1 U	125	---	Unfiltered		UST
RD-10		Split	09/10/89	Tritium	1000 U	---	1000	Unfiltered		TMA
RD-10		Primary	03/06/91	Tritium	21.2 U	190	500	Unfiltered		IT
RD-10		Primary	03/07/92	Tritium	500 U	---	500	Unfiltered		CEP
RD-13		Primary	09/10/89	Tritium	1000 U	---	1000	Unfiltered		TMA
RD-13		Primary	09/12/89	Tritium	-167 U	115	---	Unfiltered		UST
RD-13		Primary	10/17/89	Tritium	-88.1 U	229	---	Unfiltered		UST

See last page of table for notes and abbreviations.

TABLE E-II
RESULTS OF ANALYSES FOR TRITIUM IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-13		Primary	12/06/90	Tritium	-28.8 U	197	500	Unfiltered		IT
RD-13		Primary	03/08/91	Tritium	-33.32 U	189	500	Unfiltered		IT
RD-13		Primary	12/10/91	Tritium	-65.4 U	214	500	Unfiltered		IT
RD-13		Primary	03/12/92	Tritium	500 U	---	500	Unfiltered		CEP
RD-13		Primary	03/08/93	Tritium	63 U	327	500	Unfiltered		CEP
RD-13		Primary	08/08/95	Tritium	7.1 U	6.6	8.4	Unfiltered		LAS
RD-13		Primary	08/26/97	Tritium	-60 U	92	190	Unfiltered		LAS
RD-14		Primary	10/18/89	Tritium	-157 U	226	---	Unfiltered		UST
RD-14		Duplicate	10/18/89	Tritium	161 U	202	---	Unfiltered		UST
RD-14		Primary	12/07/90	Tritium	2.77 U	195	500	Unfiltered		IT
RD-14		Primary	03/09/91	Tritium	26.8 U	191	500	Unfiltered		IT
RD-14		Primary	12/06/91	Tritium	-90.6 U	206	500	Unfiltered		IT
RD-14		Primary	03/05/92	Tritium	500 U	---	500	Unfiltered		CEP
RD-14		Primary	03/07/93	Tritium	475 U	499	500	Unfiltered		CEP
RD-14		Primary	02/24/94	Tritium	50 U	150	270	Unfiltered		LAS
RD-14		Primary	02/08/95	Tritium	-50 U	190	190	Unfiltered		LAS
RD-14		Primary	02/16/96	Tritium	-130 U	170	220	Unfiltered		LAS
RD-14		Primary	02/07/97	Tritium	40 U	120	220	Unfiltered		LAS
RD-15		Primary	10/19/89	Tritium	-12.2 U	192	---	Unfiltered		UST
RD-15		Primary	12/07/90	Tritium	49.9 U	198	500	Unfiltered		IT
RD-15		Primary	03/10/91	Tritium	85.5 U	186	500	Unfiltered		IT
RD-15		Primary	12/06/91	Tritium	-26.8 U	210	500	Unfiltered		IT
RD-15		Primary	03/11/92	Tritium	500 U	---	500	Unfiltered		CEP
RD-15		Split	03/11/92	Tritium	100 U	---	100	Unfiltered		TEL
RD-15		Primary	05/10/01	Tritium	75.2 U	120	199	Unfiltered		ES
RD-15		Primary	03/06/02	Tritium	0 U	78	259	Unfiltered		DL
RD-15		Primary	02/26/03	Tritium	68.7 U	120	194	Unfiltered		ES
RD-15		Primary	02/24/04	Tritium	-52.6 U	110	185	Unfiltered		ES
RD-15		Primary	08/09/04	Tritium	0.984 J	0.21	---	Unfiltered		ES
RD-15		Primary	02/14/05	Tritium	-15 U	120	200	Unfiltered		ES
RD-15		Primary	02/16/06	Tritium	81.2 U	100	164	Unfiltered		ES
RD-15		Split	02/16/06	Tritium	29.5 U	154	330	Unfiltered		STL
RD-15		Primary	02/06/07	Tritium	26.4 U	54	89	Unfiltered		ES
RD-15		Primary	02/20/08	Tritium	-52.2 U	87	152	Unfiltered		ES
RD-16		Primary	10/25/89	Tritium	176 U	222	---	Unfiltered		UST
RD-16		Primary	12/07/90	Tritium	56.3 U	198	500	Unfiltered		IT
RD-16		Primary	03/09/91	Tritium	98.1 U	187	500	Unfiltered		IT
RD-16		Primary	12/05/91	Tritium	67.4 U	219	500	Unfiltered		IT
RD-16		Primary	06/06/92	Tritium	564	529	500	Unfiltered		CEP
RD-16		Primary	05/27/98	Tritium	-160 U	120	211	Unfiltered		TN
RD-17		Primary	10/18/89	Tritium	77.8 U	243	---	Unfiltered		UST
RD-17		Duplicate	10/18/89	Tritium	14.1 U	194	---	Unfiltered		UST
RD-17		Primary	12/04/90	Tritium	108 U	199	500	Unfiltered		IT
RD-17		Primary	03/05/91	Tritium	1.85 U	189	500	Unfiltered		IT
RD-17		Primary	12/07/91	Tritium	-44.4 U	209	500	Unfiltered		IT
RD-17		Split	12/07/91	Tritium	500 U	---	500	Unfiltered		CEP

See last page of table for notes and abbreviations.

TABLE E-II
RESULTS OF ANALYSES FOR TRITIUM IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-17		Primary	03/04/92	Tritium	-98 U	498	500	Unfiltered		CEP
RD-17		Primary	03/05/93	Tritium	160 U	300	500	Unfiltered		CEP
RD-17		Primary	02/26/94	Tritium	-70 U	130	280	Unfiltered		LAS
RD-17		Primary	02/08/95	Tritium	-10 U	200	260	Unfiltered		LAS
RD-17		Primary	02/04/96	Tritium	-30 U	150	220	Unfiltered		LAS
RD-17		Primary	02/08/97	Tritium	10 U	120	220	Unfiltered		LAS
RD-17		Primary	02/04/98	Tritium	-80.3 U	110	201	Unfiltered		TN
RD-17		Primary	02/08/99	Tritium	-13.1 U	120	206	Unfiltered		TN
RD-17		Primary	02/21/00	Tritium	62.8 U	120	193	Unfiltered		TN
RD-17		Primary	02/14/01	Tritium	71.9 U	120	206	Unfiltered		ES
RD-17		Primary	03/01/02	Tritium	264 U	58	350	Unfiltered		DL
RD-17		Primary	02/24/03	Tritium	-52.5 U	110	188	Unfiltered		ES
RD-17		Primary	02/23/04	Tritium	-21.8 U	110	185	Unfiltered		ES
RD-17		Primary	02/15/05	Tritium	-1.87 U	120	198	Unfiltered		ES
RD-17		Primary	02/16/06	Tritium	87.6 U	100	164	Unfiltered		ES
RD-17		Primary	02/06/07	Tritium	-8.88 U	50	83.6	Unfiltered		ES
RD-17		Split	02/06/07	Tritium	24.5 U	81	108	Unfiltered		STL
RD-17		Primary	02/22/08	Tritium	-23.8 U	89	152	Unfiltered		ES
RD-18		Primary	10/26/89	Tritium	53.6 U	215	---	Unfiltered		UST
RD-18		Primary	12/08/90	Tritium	26.8 U	195	500	Unfiltered		IT
RD-18		Primary	03/09/91	Tritium	201 U	192	500	Unfiltered		IT
RD-18		Primary	12/11/91	Tritium	-18.3 U	217	500	Unfiltered		IT
RD-18		Primary	03/12/92	Tritium	500 U	---	500	Unfiltered		CEP
RD-18		Primary	02/22/94	Tritium	40 U	150	270	Unfiltered		LAS
RD-18		Primary	02/17/95	Tritium	-90 U	170	260	Unfiltered		LAS
RD-18		Primary	02/05/96	Tritium	20 U	160	220	Unfiltered		LAS
RD-18		Primary	02/06/97	Tritium	100	60	95	Unfiltered		LAS
RD-18		Primary	02/06/98	Tritium	13.7 U	110	194	Unfiltered		TN
RD-19		Primary	10/26/89	Tritium	27.3 U	214	---	Unfiltered		UST
RD-19		Primary	12/08/90	Tritium	-20.3 U	193	500	Unfiltered		IT
RD-19		Primary	03/08/91	Tritium	11.5 U	182	500	Unfiltered		IT
RD-19		Duplicate	03/08/91	Tritium	225 U	193	500	Unfiltered		IT
RD-19		Primary	12/11/91	Tritium	-22.1 U	217	500	Unfiltered		IT
RD-19		Primary	03/12/92	Tritium	500 U	---	500	Unfiltered		CEP
RD-19		Primary	03/08/93	Tritium	262 U	499	500	Unfiltered		CEP
RD-19		Primary	02/26/94	Tritium	-80 U	130	280	Unfiltered		LAS
RD-19		Primary	02/15/95	Tritium	-40 U	180	260	Unfiltered		LAS
RD-19		Primary	02/06/96	Tritium	-40 U	150	220	Unfiltered		LAS
RD-19		Primary	02/07/97	Tritium	-60 U	100	210	Unfiltered		LAS
RD-19		Primary	02/06/98	Tritium	49.9 U	120	193	Unfiltered		TN
RD-20		Primary	10/17/89	Tritium	-72.1 U	230	---	Unfiltered		UST
RD-20		Primary	12/07/90	Tritium	49.9 U	197	500	Unfiltered		IT
RD-20		Primary	12/10/90	Tritium	-26.8 U	192	500	Unfiltered		IT
RD-20		Primary	03/05/91	Tritium	132 U	196	500	Unfiltered		IT
RD-20		Primary	12/10/91	Tritium	20.2 U	219	500	Unfiltered		IT
RD-20		Primary	03/04/92	Tritium	-274 U	486	500	Unfiltered		CEP

See last page of table for notes and abbreviations.

TABLE E-II
RESULTS OF ANALYSES FOR TRITIUM IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-20		Primary	02/22/94	Tritium	-120 U	120	280	Unfiltered		LAS
RD-20		Primary	02/16/95	Tritium	-40 U	180	260	Unfiltered		LAS
RD-20		Duplicate	02/16/95	Tritium	-50 U	180	260	Unfiltered		LAS
RD-20		Primary	02/04/96	Tritium	-110 U	150	220	Unfiltered		LAS
RD-20		Primary	02/08/97	Tritium	30 U	120	220	Unfiltered		LAS
RD-20		Primary	02/04/98	Tritium	-16.4 U	120	205	Unfiltered		TN
RD-21		Primary	10/20/89	Tritium	-100 U	229	---	Unfiltered		UST
RD-21		Duplicate	10/20/89	Tritium	35.7 U	194	---	Unfiltered		UST
RD-21		Primary	12/03/90	Tritium	182 U	202	500	Unfiltered		IT
RD-21		Primary	03/08/91	Tritium	119 U	188	500	Unfiltered		IT
RD-21		Primary	12/05/91	Tritium	184 U	225	500	Unfiltered		IT
RD-21		Primary	03/04/92	Tritium	-256 U	497	500	Unfiltered		CEP
RD-21		Primary	03/06/93	Tritium	314 U	335	500	Unfiltered		CEP
RD-21		Primary	06/22/93	Tritium	-570 U	500	500	Unfiltered		CEP
RD-21		Primary	08/06/93	Tritium	560	510	500	Unfiltered		CEP
RD-21		Primary	11/06/93	Tritium	0 U	120	220	Unfiltered		LAS
RD-21		Primary	02/25/94	Tritium	50 U	150	270	Unfiltered		LAS
RD-21		Primary	08/08/94	Tritium	-150 U	110	260	Unfiltered		LAS
RD-21		Primary	02/08/95	Tritium	40 U	210	260	Unfiltered		LAS
RD-21		Primary	08/31/95	Tritium	-60 U	220	300	Unfiltered		LAS
RD-21		Primary	02/16/96	Tritium	-110 U	170	220	Unfiltered		LAS
RD-21		Primary	08/18/96	Tritium	-40 U	110	220	Unfiltered		LAS
RD-21		Primary	02/06/97	Tritium	117	61	94	Unfiltered		LAS
RD-21		Primary	02/09/98	Tritium	13.7 U	110	194	Unfiltered		TN
RD-21		Primary	02/16/99	Tritium	0 U	120	207	Unfiltered		TN
RD-21		Primary	03/15/00	Tritium	25 U	110	181	Unfiltered		TN
RD-21		Primary	10/24/01	Tritium	0 U	106	249	Unfiltered		DL
RD-21		Primary	03/06/02	Tritium	0 U	77	259	Unfiltered		DL
RD-21	Z2	Primary	02/25/03	Tritium	86.9 U	120	192	Unfiltered		ES
RD-21	Z2	Primary	11/04/04	Tritium	51.1 U	96	159	Unfiltered		ES
RD-21	Z2	Primary	02/16/05	Tritium	-3.49 U	150	256	Unfiltered		ES
RD-21	Z2	Primary	02/16/06	Tritium	85.1 U	110	164	Unfiltered		ES
RD-21	Z2	Primary	02/08/07	Tritium	24.8 U	51	85	Unfiltered		ES
RD-21	Z2	Primary	05/21/07	Tritium	-13.6 U	49	82.2	Unfiltered		ES
RD-21	Z2	Primary	02/05/08	Tritium	-30 U	82	140	Unfiltered		ES
RD-22		Primary	10/19/89	Tritium	-47.9 U	189	---	Unfiltered		UST
RD-22		Primary	12/04/90	Tritium	41.3 U	195	500	Unfiltered		IT
RD-22		Duplicate	12/04/90	Tritium	116 U	198	500	Unfiltered		IT
RD-22		Primary	03/11/91	Tritium	-90.5 U	186	500	Unfiltered		IT
RD-22		Primary	12/06/91	Tritium	-26.8 U	210	500	Unfiltered		IT
RD-22		Primary	06/05/92	Tritium	75 U	517	500	Unfiltered		CEP
RD-22		Primary	03/20/93	Tritium	-627 U	490	500	Unfiltered		CEP
RD-22		Primary	06/22/93	Tritium	118 U	500	500	Unfiltered		CEP
RD-22		Primary	08/05/93	Tritium	440 U	500	500	Unfiltered		CEP
RD-22		Primary	11/21/93	Tritium	-100 U	110	240	Unfiltered		LAS
RD-22		Primary	02/24/94	Tritium	70 U	150	270	Unfiltered		LAS

See last page of table for notes and abbreviations.

TABLE E-II
RESULTS OF ANALYSES FOR TRITIUM IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-22		Primary	08/09/94	Tritium	20 U	140	260	Unfiltered		LAS
RD-22		Primary	02/17/95	Tritium	-20 U	180	260	Unfiltered		LAS
RD-22		Primary	08/29/95	Tritium	100 U	240	300	Unfiltered		LAS
RD-22		Primary	02/16/96	Tritium	20 U	190	230	Unfiltered		LAS
RD-22		Primary	08/18/96	Tritium	-20 U	110	220	Unfiltered		LAS
RD-22		Primary	02/26/97	Tritium	140 U	130	210	Unfiltered		LAS
RD-22		Primary	05/28/98	Tritium	43.7 U	110	184	Unfiltered		TN
RD-22		Primary	02/17/99	Tritium	41.5 U	120	207	Unfiltered		TN
RD-22		Primary	02/06/00	Tritium	-139 U	120	211	Unfiltered		TN
RD-22		Primary	02/16/01	Tritium	-6.18 U	120	200	Unfiltered		ES
RD-22		Primary	02/20/02	Tritium	228 U	80	252	Unfiltered		DL
RD-22	Z2	Primary	02/24/03	Tritium	16.5 U	110	192	Unfiltered		ES
RD-22	Z2	Primary	11/12/04	Tritium	-24.9 U	130	231	Unfiltered		ES
RD-22	Z2	Primary	02/17/05	Tritium	-24.2 U	150	253	Unfiltered		ES
RD-22	Z2	Primary	08/31/05	Tritium	50.9 U	160	266	Unfiltered		ES
RD-22	Z2	Primary	02/15/06	Tritium	40.4 U	99	165	Unfiltered		ES
RD-22	Z2	Primary	02/07/07	Tritium	36.1 U	51	85	Unfiltered		ES
RD-22	Z2	Primary	02/05/08	Tritium	-19.6 U	81	138	Unfiltered		ES
RD-23		Primary	10/20/89	Tritium	589	267	---	Unfiltered		UST
RD-23		Primary	06/29/90	Tritium	129 U	218	---	Unfiltered		UST
RD-23		Primary	12/05/90	Tritium	88.3 U	206	---	Unfiltered		IT
RD-23		Primary	03/11/91	Tritium	106 U	195	500	Unfiltered		IT
RD-23		Duplicate	03/11/91	Tritium	64.7 U	193	500	Unfiltered		IT
RD-23		Primary	12/05/91	Tritium	256 U	229	500	Unfiltered		IT
RD-23		Primary	03/04/92	Tritium	-66 U	517	---	Unfiltered		CEP
RD-23		Primary	03/21/93	Tritium	455 U	499	500	Unfiltered		CEP
RD-23		Primary	06/23/93	Tritium	1574	702	500	Unfiltered		CEP
RD-23		Reanalysis of Primary	06/23/93	Tritium	672 U	735	---	Unfiltered		CEP
RD-23		Primary	08/06/93	Tritium	1108	514	500	Unfiltered		CEP
RD-23		Reanalysis of Primary	08/06/93	Tritium	406 U	500	500	Unfiltered		CEP
RD-23		Primary	02/25/94	Tritium	850	250	270	Unfiltered		CEP
RD-23		Primary	08/08/94	Tritium	500	210	270	Unfiltered		LAS
RD-23		Primary	11/22/94	Tritium	630	250	---	Unfiltered		LAS
RD-23		Primary	02/05/95	Tritium	340	230	260	Unfiltered		LAS
RD-23		Primary	08/03/95	Tritium	400	250	280	Unfiltered		LAS
RD-23		Primary	02/16/96	Tritium	430	210	220	Unfiltered		LAS
RD-23		Primary	08/18/96	Tritium	450	180	220	Unfiltered		LAS
RD-23		Primary	02/27/97	Tritium	350	150	210	Unfiltered		LAS
RD-23		Primary	02/07/98	Tritium	234	120	195	Unfiltered		TN
RD-23		Primary	02/08/99	Tritium	294	130	205	Unfiltered		TN
RD-23		Primary	02/05/00	Tritium	64.4 U	120	204	Unfiltered		TN
RD-23		Primary	10/25/01	Tritium	46 U	108	249	Unfiltered		DL
RD-23		Primary	03/01/02	Tritium	304 U	59	350	Unfiltered		DL
RD-23	Z1	Primary	02/26/03	Tritium	116 U	120	188	Unfiltered		ES
RD-23	Z2	Primary	11/03/04	Tritium	-29.3 U	93	159	Unfiltered		ES

See last page of table for notes and abbreviations.

TABLE E-II
RESULTS OF ANALYSES FOR TRITIUM IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-23	Z2	Primary	02/14/05	Tritium	0 U	150	258	Unfiltered		ES
RD-23	Z3	Primary	02/17/06	Tritium	148 U	94	163	Unfiltered		ES
RD-23	Z3	Primary	02/07/07	Tritium	13.4 U	50	84	Unfiltered		ES
RD-23	Z3	Primary	02/06/08	Tritium	-50.8 U	85	146	Unfiltered		ES
RD-24		Primary	09/12/89	Tritium	-22 U	122	---	Unfiltered		UST
RD-24		Split	09/12/89	Tritium	1000 U	---	1000	Unfiltered		TMA
RD-24		Primary	10/17/89	Tritium	-89 U	229	---	Unfiltered		UST
RD-24		Primary	12/05/90	Tritium	37.4 U	204	500	Unfiltered		IT
RD-24		Primary	03/06/91	Tritium	158 U	197	500	Unfiltered		IT
RD-24		Primary	12/11/91	Tritium	-33.7 U	216	500	Unfiltered		IT
RD-24		Primary	03/06/92	Tritium	500 U	---	500	Unfiltered		CEP
RD-24		Primary	02/23/94	Tritium	230 U	180	280	Unfiltered		LAS
RD-24		Primary	08/08/94	Tritium	80 U	150	260	Unfiltered		LAS
RD-24		Primary	02/16/95	Tritium	320	220	250	Unfiltered		LAS
RD-24		Primary	08/10/95	Tritium	170 U	230	270	Unfiltered		LAS
RD-24		Primary	02/07/96	Tritium	400	190	220	Unfiltered		LAS
RD-24		Primary	08/07/96	Tritium	320	160	220	Unfiltered		LAS
RD-24		Primary	02/07/97	Tritium	500	180	220	Unfiltered		LAS
RD-24		Primary	08/04/97	Tritium	390	160	210	Unfiltered		LAS
RD-24		Primary	02/18/98	Tritium	358	130	193	Unfiltered		TN
RD-24		Primary	05/05/98	Tritium	161 U	130	206	Unfiltered		TN
RD-24		Primary	08/04/98	Tritium	299	140	220	Unfiltered		TN
RD-24		Primary	02/02/99	Tritium	220	120	182	Unfiltered		TN
RD-24		Primary	08/11/99	Tritium	401	110	157	Unfiltered		TN
RD-24		Primary	02/03/00	Tritium	317	130	208	Unfiltered		TN
RD-24		Primary	08/04/00	Tritium	267	140	218	Unfiltered		TR
RD-24		Primary	02/06/01	Tritium	245	110	168	Unfiltered		ES
RD-24		Primary	10/25/01	Tritium	493	113	249	Unfiltered		DL
RD-24		Primary	02/25/02	Tritium	285 U	58	350	Unfiltered		DL
RD-24		Primary	11/06/02	Tritium	162 U	110	182	Unfiltered		ES
RD-24		Primary	02/12/03	Tritium	257	120	193	Unfiltered		ES
RD-24		Split	11/14/03	Tritium	237	65	82.4	Unfiltered		STL
RD-24		Primary	11/14/03	Tritium	185 U	120	194	Unfiltered		ES
RD-24		Primary	02/23/04	Tritium	65 U	110	179	Unfiltered		ES
RD-24		Primary	08/26/04	Tritium	140 U	110	174	Unfiltered		ES
RD-24		Primary	02/24/05	Tritium	260	120	191	Unfiltered		ES
RD-24		Primary	09/06/05	Tritium	140 U	110	178	Unfiltered		ES
RD-24		Primary	02/15/06	Tritium	187 J	100	162	Unfiltered		ES
RD-24		Primary	08/10/06	Tritium	47.4 U	97	162	Unfiltered		ES
RD-24		Primary	05/24/07	Tritium	69.2 U	50	81.2	Unfiltered		ES
RD-24		Primary	08/08/07	Tritium	25.5 U	59	97.7	Unfiltered		ES
RD-24		Primary	02/13/08	Tritium	-26.4 U	90	154	Unfiltered		ES
RD-25		Primary	09/12/89	Tritium	-162 U	116	---	Unfiltered		UST
RD-25		Split	09/12/89	Tritium	1000 U	---	1000	Unfiltered		TMA
RD-25		Split	09/12/89	Tritium	1000 U	---	1000	Unfiltered		TMA
RD-25		Primary	10/20/89	Tritium	-99.3 U	229	---	Unfiltered		UST

See last page of table for notes and abbreviations.

TABLE E-II
RESULTS OF ANALYSES FOR TRITIUM IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-25		Primary	12/05/90	Tritium	17.3 U	202	500	Unfiltered		IT
RD-25		Primary	03/06/91	Tritium	-45.3 U	187	500	Unfiltered		IT
RD-25		Primary	12/10/91	Tritium	93.3 U	222	500	Unfiltered		IT
RD-25		Primary	03/06/92	Tritium	500 U	---	500	Unfiltered		CEP
RD-25		Primary	03/17/93	Tritium	257 U	427	500	Unfiltered		CEP
RD-25		Primary	02/28/94	Tritium	-40 U	130	270	Unfiltered		LAS
RD-25		Primary	08/17/94	Tritium	-30 U	130	260	Unfiltered		LAS
RD-25		Primary	02/09/95	Tritium	-40 U	190	270	Unfiltered		LAS
RD-25		Primary	08/18/95	Tritium	-100 U	200	300	Unfiltered		LAS
RD-25		Primary	02/06/96	Tritium	-20 U	150	210	Unfiltered		LAS
RD-25		Primary	08/20/96	Tritium	50 U	120	220	Unfiltered		LAS
RD-25		Primary	02/07/97	Tritium	240	150	220	Unfiltered		LAS
RD-25		Primary	08/21/97	Tritium	-30 U	110	210	Unfiltered		LAS
RD-25		Primary	02/05/98	Tritium	-59 U	110	198	Unfiltered		TN
RD-25		Primary	08/18/98	Tritium	-66.5 U	120	216	Unfiltered		TN
RD-25		Primary	02/16/99	Tritium	81 U	120	202	Unfiltered		TN
RD-25		Primary	08/19/99	Tritium	-20.3 U	98	168	Unfiltered		TN
RD-25		Primary	02/16/00	Tritium	23.4 U	110	187	Unfiltered		TN
RD-25		Primary	08/09/00	Tritium	3.69 U	130	226	Unfiltered		TR
RD-25		Primary	02/07/01	Tritium	-48.4 U	98	170	Unfiltered		ES
RD-25		Primary	10/25/01	Tritium	0 U	78	264	Unfiltered		DL
RD-25		Primary	03/07/02	Tritium	0 U	78	259	Unfiltered		DL
RD-25		Primary	11/06/02	Tritium	-95.2 U	100	182	Unfiltered		ES
RD-25		Primary	02/24/03	Tritium	-31.8 U	110	197	Unfiltered		ES
RD-25		Primary	11/13/03	Tritium	9.52 U	120	197	Unfiltered		ES
RD-25		Primary	02/23/04	Tritium	259	120	183	Unfiltered		ES
RD-25		Split	02/23/04	Tritium	244	72.2	84.7	Unfiltered		STL
RD-26		Primary	10/20/89	Tritium	45.9 U	237	---	Unfiltered		UST
RD-26		Primary	12/04/90	Tritium	209 U	204	500	Unfiltered		IT
RD-26		Primary	03/07/91	Tritium	110 U	187	500	Unfiltered		IT
RD-26		Primary	03/11/92	Tritium	500 U	---	500	Unfiltered		CEP
RD-27		Primary	10/19/89	Tritium	2.82 U	193	---	Unfiltered		UST
RD-27		Primary	12/04/90	Tritium	90.2 U	197	500	Unfiltered		IT
RD-27		Primary	03/07/91	Tritium	27.9 U	183	500	Unfiltered		IT
RD-27		Primary	12/06/91	Tritium	-48.1 U	209	500	Unfiltered		IT
RD-27		Primary	03/09/92	Tritium	500 U	---	500	Unfiltered		CEP
RD-27		Primary	03/08/93	Tritium	293 U	322	500	Unfiltered		CEP
RD-27		Primary	08/09/93	Tritium	324 U	500	500	Unfiltered		CEP
RD-27		Primary	02/28/94	Tritium	0 U	140	280	Unfiltered		LAS
RD-27		Primary	08/18/94	Tritium	-110 U	120	260	Unfiltered		LAS
RD-27		Primary	02/17/95	Tritium	-60 U	180	260	Unfiltered		LAS
RD-27		Primary	08/18/95	Tritium	80 U	220	300	Unfiltered		LAS
RD-27		Primary	02/05/96	Tritium	-30 U	150	210	Unfiltered		LAS
RD-27		Primary	08/19/96	Tritium	240	150	210	Unfiltered		LAS
RD-27		Primary	02/05/97	Tritium	87 U	58	93	Unfiltered		LAS
RD-27		Primary	08/27/97	Tritium	-16 U	98	190	Unfiltered		LAS

See last page of table for notes and abbreviations.

TABLE E-II
RESULTS OF ANALYSES FOR TRITIUM IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-27		Primary	02/04/98	Tritium	11.4 U	120	198	Unfiltered		TN
RD-27		Primary	08/07/98	Tritium	-83.9 U	130	218	Unfiltered		TN
RD-27		Primary	02/16/99	Tritium	3.33 U	120	199	Unfiltered		TN
RD-27		Primary	08/17/99	Tritium	-48 U	94	162	Unfiltered		TN
RD-27		Primary	02/21/00	Tritium	31.2 U	110	192	Unfiltered		TN
RD-27		Primary	08/04/00	Tritium	73.6 U	130	220	Unfiltered		TR
RD-27		Primary	02/14/01	Tritium	8.32 U	120	202	Unfiltered		ES
RD-27		Primary	10/26/01	Tritium	30 U	107	202	Unfiltered		DL
RD-27		Primary	03/06/02	Tritium	0 U	77	259	Unfiltered		DL
RD-27		Primary	08/22/02	Tritium	-24.9 U	120	199	Unfiltered		ES
RD-27		Primary	02/21/03	Tritium	29.8 U	110	193	Unfiltered		ES
RD-27		Split	11/14/03	Tritium	9.54 U	48.9	85	Unfiltered		STL
RD-27		Primary	11/14/03	Tritium	-11.2 U	110	194	Unfiltered		ES
RD-27		Primary	02/23/04	Tritium	43.1 U	110	183	Unfiltered		ES
RD-27		Primary	08/10/04	Tritium	-27.9 U	94	162	Unfiltered		ES
RD-27		Primary	02/17/05	Tritium	-56.1 U	120	199	Unfiltered		ES
RD-27		Primary	08/24/05	Tritium	3.69 U	150	261	Unfiltered		ES
RD-27		Primary	02/20/06	Tritium	-6.14 U	99	167	Unfiltered		ES
RD-27		Primary	08/25/06	Tritium	-14.2 U	100	177	Unfiltered		ES
RD-27		Primary	02/14/07	Tritium	-38.6 U	57	95.8	Unfiltered		ES
RD-27		Split	02/14/07	Tritium	-11 U	74	106	Unfiltered		STL
RD-27		Primary	08/09/07	Tritium	-46.4 U	58	98.6	Unfiltered		ES
RD-27		Primary	03/05/08	Tritium	82.4 U	94	155	Unfiltered		ES
RD-27		Primary	09/04/08	Tritium	-88.1 U	90	156	Unfiltered		ES
RD-28		Primary	09/13/89	Tritium	665	149	---	Unfiltered		UST
RD-28		Split	09/13/89	Tritium	1000 U	---	1000	Unfiltered		TMA
RD-28		Primary	10/19/89	Tritium	699	234	---	Unfiltered		UST
RD-28		Primary	03/27/90	Tritium	819	236	---	Unfiltered		UST
RD-28		Primary	07/01/90	Tritium	612	244	---	Unfiltered		UST
RD-28		Primary	09/16/90	Tritium	814	242	---	Unfiltered		UST
RD-28		Duplicate	09/16/90	Tritium	839	242	---	Unfiltered		UST
RD-28		Primary	12/05/90	Tritium	567	232	500	Unfiltered		IT
RD-28		Primary	03/06/91	Tritium	638	223	500	Unfiltered		IT
RD-28		Primary	06/10/91	Tritium	431 U	227	500	Unfiltered		IT
RD-28		Primary	09/11/91	Tritium	620	247	500	Unfiltered		IT
RD-28		Primary	12/10/91	Tritium	575	250	500	Unfiltered		IT
RD-28		Split	12/10/91	Tritium	500 U	---	500	Unfiltered		CEP
RD-28		Primary	03/06/92	Tritium	420 U	110	500	Unfiltered		TEL
RD-28		Split	03/06/92	Tritium	500 U	---	500	Unfiltered		CEP
RD-28		Primary	06/10/92	Tritium	1025	505	500	Unfiltered		CEP
RD-28		Split	06/10/92	Tritium	540	120	500	Unfiltered		TEL
RD-28		Primary	09/16/92	Tritium	300 U	500	500	Unfiltered		CEP
RD-28		Split	09/16/92	Tritium	450 U	290	500	Unfiltered		BL
RD-28		Primary	12/07/92	Tritium	465 U	500	500	Unfiltered		CEP
RD-28		Primary	03/17/93	Tritium	0 U	490	500	Unfiltered		CEP
RD-28		Primary	08/05/93	Tritium	1684	522	500	Unfiltered		CEP

See last page of table for notes and abbreviations.

TABLE E-II
RESULTS OF ANALYSES FOR TRITIUM IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-28		Reanalysis of Primary	08/05/93	Tritium	369 U	500	500	Unfiltered		CEP
RD-28		Primary	02/24/94	Tritium	490	210	270	Unfiltered		LAS
RD-28		Primary	08/17/94	Tritium	870	240	260	Unfiltered		LAS
RD-28		Primary	02/09/95	Tritium	380	230	260	Unfiltered		LAS
RD-28		Primary	08/18/95	Tritium	680	280	300	Unfiltered		LAS
RD-28		Primary	02/06/96	Tritium	430	190	210	Unfiltered		LAS
RD-28		Primary	08/20/96	Tritium	450	170	220	Unfiltered		LAS
RD-28		Primary	02/06/97	Tritium	496	83	92	Unfiltered		LAS
RD-28		Primary	08/28/97	Tritium	320	140	180	Unfiltered		LAS
RD-28		Primary	02/05/98	Tritium	267	130	199	Unfiltered		TN
RD-28		Primary	08/18/98	Tritium	50.6 U	130	210	Unfiltered		TN
RD-28		Primary	02/16/99	Tritium	55.3 U	120	194	Unfiltered		TN
RD-28		Primary	11/03/99	Tritium	-50 U	98	169	Unfiltered		TN
RD-28		Primary	02/16/00	Tritium	744	140	188	Unfiltered		TN
RD-28		Primary	08/09/00	Tritium	916	150	188	Unfiltered		TR
RD-28		Primary	02/07/01	Tritium	1100	130	168	Unfiltered		ES
RD-28		Primary	10/25/01	Tritium	0 U	100	236	Unfiltered		DL
RD-28		Primary	02/25/02	Tritium	324 U	63	350	Unfiltered		DL
RD-28		Primary	11/06/02	Tritium	1280	140	181	Unfiltered		ES
RD-28		Primary	02/24/03	Tritium	756	130	184	Unfiltered		ES
RD-28		Primary	11/14/03	Tritium	1430	210	197	Unfiltered		ES
RD-28		Primary	02/23/04	Tritium	1120	180	189	Unfiltered		ES
RD-28		Split	02/23/04	Tritium	1120	131	84.1	Unfiltered		STL
RD-28		Primary	08/13/04	Tritium	102 U	100	170	Unfiltered		ES
RD-28		Primary	08/18/04	Tritium	15400	1600	173	Unfiltered		ES
RD-29		Primary	10/18/89	Tritium	-101 U	230	---	Unfiltered		UST
RD-29		Primary	12/06/90	Tritium	55.7 U	201	500	Unfiltered		IT
RD-29		Primary	03/05/91	Tritium	105 U	194	500	Unfiltered		IT
RD-29		Primary	12/10/91	Tritium	89.5 U	222	500	Unfiltered		IT
RD-29		Split	12/10/91	Tritium	500 U	---	500	Unfiltered		CEP
RD-29		Primary	03/03/92	Tritium	-447 U	520	500	Unfiltered		CEP
RD-29		Primary	03/05/93	Tritium	366 U	499	500	Unfiltered		CEP
RD-29		Primary	08/08/93	Tritium	345 U	500	500	Unfiltered		CEP
RD-29		Primary	02/26/94	Tritium	70 U	150	270	Unfiltered		LAS
RD-29		Primary	08/17/94	Tritium	10 U	260	260	Unfiltered		LAS
RD-29		Primary	05/09/01	Tritium	19 U	120	201	Unfiltered		ES
RD-29		Primary	05/03/02	Tritium	56 U	118	366	Unfiltered		DL
RD-29		Primary	05/13/03	Tritium	-12.4 U	100	174	Unfiltered		ES
RD-29		Primary	02/24/04	Tritium	-120 U	110	187	Unfiltered		ES
RD-29		Primary	02/24/05	Tritium	57.1 U	110	188	Unfiltered		ES
RD-29		Primary	08/25/05	Tritium	-475 U	850	1500	Unfiltered		ES
RD-29		Primary	02/16/06	Tritium	58.6 U	100	168	Unfiltered		ES
RD-29		Primary	02/07/07	Tritium	27.4 U	52	86	Unfiltered		ES
RD-29		Primary	02/05/08	Tritium	91.7 U	85	139	Unfiltered		ES
RD-30		Primary	10/19/89	Tritium	108 U	199	---	Unfiltered		UST

See last page of table for notes and abbreviations.

TABLE E-II
RESULTS OF ANALYSES FOR TRITIUM IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-30		Primary	12/06/90	Tritium	34.6 U	200	500	Unfiltered		IT
RD-30		Primary	03/09/91	Tritium	89.6 U	195	500	Unfiltered		IT
RD-30		Primary	09/09/91	Tritium	20.3 U	199	500	Unfiltered		IT
RD-30		Primary	12/06/91	Tritium	28.7 U	213	500	Unfiltered		IT
RD-30		Primary	06/03/92	Tritium	-76 U	518	500	Unfiltered		CEP
RD-30		Split	06/03/92	Tritium	200 U	---	200	Unfiltered		TEL
RD-30		Primary	03/21/93	Tritium	-686 U	499	500	Unfiltered		CEP
RD-30		Primary	02/26/94	Tritium	70 U	150	270	Unfiltered		LAS
RD-30		Primary	08/09/94	Tritium	-30 U	130	260	Unfiltered		LAS
RD-30		Primary	02/08/95	Tritium	10 U	200	270	Unfiltered		LAS
RD-30		Primary	08/19/95	Tritium	30 U	220	300	Unfiltered		LAS
RD-30		Primary	02/28/96	Tritium	-40 U	180	220	Unfiltered		LAS
RD-30		Primary	08/20/96	Tritium	40 U	120	220	Unfiltered		LAS
RD-30		Primary	02/25/97	Tritium	40 U	110	200	Unfiltered		LAS
RD-30		Primary	08/27/97	Tritium	50 U	110	190	Unfiltered		LAS
RD-30		Primary	05/28/98	Tritium	78.6 U	110	186	Unfiltered		TN
RD-30		Primary	08/05/98	Tritium	-85 U	130	221	Unfiltered		TN
RD-30		Primary	02/05/99	Tritium	38.5 U	99	167	Unfiltered		TN
RD-30		Primary	05/05/00	Tritium	-0.88 U	12	20.6	Unfiltered		TR
RD-30		Primary	08/08/00	Tritium	19.7 U	130	220	Unfiltered		TR
RD-30		Primary	05/09/01	Tritium	72.5 U	120	203	Unfiltered		ES
RD-30		Primary	11/09/01	Tritium	136 U	104	238	Unfiltered		DL
RD-30		Primary	03/11/02	Tritium	264 S	82	264	Unfiltered		DL
RD-30		Primary	08/30/02	Tritium	52.6 U	120	201	Unfiltered		ES
RD-30		Primary	02/07/03	Tritium	83.8 U	110	190	Unfiltered		ES
RD-30		Primary	11/14/03	Tritium	-76.9 U	110	194	Unfiltered		ES
RD-30		Primary	02/24/04	Tritium	-93.7 U	110	184	Unfiltered		ES
RD-30		Primary	08/10/04	Tritium	-56.8 U	92	160	Unfiltered		ES
RD-30		Primary	08/29/05	Tritium	-27.6 U	150	264	Unfiltered		ES
RD-30		Split	08/29/05	Tritium	-13.3 U	72.6	117	Unfiltered		STL
RD-30		Primary	02/17/06	Tritium	90 U	89	160	Unfiltered		ES
RD-30		Primary	08/09/06	Tritium	0 U	97	163	Unfiltered		ES
RD-30		Split	08/09/06	Tritium	172 J	90	115	Unfiltered		STL
RD-30		Primary	05/24/07	Tritium	36.8 U	45	62	Unfiltered		ES
RD-30		Primary	08/21/07	Tritium	-29.8 U	52	87.9	Unfiltered		ES
RD-30		Primary	02/06/08	Tritium	-17 U	87	147	Unfiltered		ES
RD-30		Primary	08/13/08	Tritium	12.5 U	94	158	Unfiltered		ES
RD-31		Primary	10/24/89	Tritium	188 U	227	---	Unfiltered		UST
RD-31		Primary	12/05/90	Tritium	-56.6 U	198	500	Unfiltered		IT
RD-31		Primary	03/10/91	Tritium	182 U	191	500	Unfiltered		IT
RD-31		Primary	03/05/92	Tritium	500 U	---	500	Unfiltered		CEP
RD-33A		Primary	12/05/91	Tritium	97.2 U	221	500	Unfiltered		IT
RD-33A		Primary	12/12/91	Tritium	-14.4 U	214	500	Unfiltered		IT
RD-33A		Split	12/12/91	Tritium	500 U	---	500	Unfiltered		CEP
RD-33A		Primary	06/08/92	Tritium	335 U	515	500	Unfiltered		CEP
RD-33A		Primary	09/15/92	Tritium	299 U	500	500	Unfiltered		CEP

See last page of table for notes and abbreviations.

TABLE E-II
RESULTS OF ANALYSES FOR TRITIUM IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-33A		Primary	12/05/92	Tritium	-43 U	500	500	Unfiltered		CEP
RD-33A		Primary	06/24/93	Tritium	-468 U	437	500	Unfiltered		CEP
RD-33A		Primary	08/24/93	Tritium	436 U	500	500	Unfiltered		CEP
RD-33A		Primary	11/17/93	Tritium	-70 U	120	230	Unfiltered		LAS
RD-33A		Primary	02/27/94	Tritium	-120 U	120	270	Unfiltered		LAS
RD-33A		Primary	05/10/94	Tritium	60 U	130	230	Unfiltered		LAS
RD-33A		Primary	08/18/94	Tritium	-20 U	130	260	Unfiltered		LAS
RD-33A		Primary	02/07/95	Tritium	-50 U	200	260	Unfiltered		LAS
RD-33A		Primary	02/07/95	Tritium	4.6 U	5.5	6.9	Unfiltered	Analysis conducted using electrolytic enrichment	LAS
RD-33A		Primary	08/09/95	Tritium	90 U	220	280	Unfiltered		LAS
RD-33A		Primary	02/19/96	Tritium	10 U	180	230	Unfiltered		LAS
RD-33A		Primary	08/23/96	Tritium	120 U	140	230	Unfiltered		LAS
RD-33A		Primary	02/25/97	Tritium	120 U	130	220	Unfiltered		LAS
RD-33A		Primary	08/27/97	Tritium	-78 U	86	180	Unfiltered		LAS
RD-33A		Primary	05/27/98	Tritium	-125 U	120	207	Unfiltered		TN
RD-33A		Primary	08/17/98	Tritium	0 U	130	223	Unfiltered		TN
RD-33A		Primary	02/03/99	Tritium	-2.34 U	100	173	Unfiltered		TN
RD-33A		Primary	02/09/00	Tritium	-59.1 U	120	202	Unfiltered		TN
RD-33A		Primary	05/14/01	Tritium	-57.4 U	120	202	Unfiltered		ES
RD-33A		Primary	02/15/02	Tritium	257 U	122	384	Unfiltered		DL
RD-33A	Z4	Primary	01/30/03	Tritium	8.31 U	120	196	Unfiltered		ES
RD-33A	Z2	Primary	11/15/04	Tritium	-56.6 U	130	230	Unfiltered		ES
RD-33A	Z3	Primary	02/17/05	Tritium	-31.7 U	150	258	Unfiltered		ES
RD-33A	Z2	Primary	02/17/06	Tritium	13.1 U	110	165	Unfiltered		ES
RD-33A	Z2	Primary	02/08/07	Tritium	-43.2 U	53	89	Unfiltered		ES
RD-33A	Z2	Primary	02/07/08	Tritium	12.3 U	82	138	Unfiltered		ES
RD-33B		Primary	12/12/91	Tritium	51.9 U	218	500	Unfiltered		IT
RD-33B		Split	12/12/91	Tritium	500 U	---	500	Unfiltered		CEP
RD-33B		Primary	06/24/92	Tritium	-219 U	492	500	Unfiltered		CEP
RD-33B		Primary	09/15/92	Tritium	500	500	500	Unfiltered		CEP
RD-33B		Primary	12/05/92	Tritium	4 U	500	500	Unfiltered		CEP
RD-33B		Primary	06/24/93	Tritium	-346 U	500	500	Unfiltered		CEP
RD-33B		Primary	08/24/93	Tritium	0 U	500	500	Unfiltered		CEP
RD-33B		Primary	11/17/93	Tritium	-60 U	120	250	Unfiltered		LAS
RD-33B		Primary	02/27/94	Tritium	60 U	150	280	Unfiltered		LAS
RD-33B		Primary	05/10/94	Tritium	-20 U	120	230	Unfiltered		LAS
RD-33B		Primary	08/18/94	Tritium	-130 U	120	260	Unfiltered		LAS
RD-33B		Primary	02/07/95	Tritium	20 U	200	260	Unfiltered		LAS
RD-33B		Primary	08/09/95	Tritium	-80 U	200	280	Unfiltered		LAS
RD-33B		Primary	02/19/96	Tritium	-40 U	180	230	Unfiltered		LAS
RD-33B		Primary	08/23/96	Tritium	-20 U	110	220	Unfiltered		LAS
RD-33B		Primary	02/25/97	Tritium	30 U	110	200	Unfiltered		LAS
RD-33B		Primary	08/22/97	Tritium	-60 U	110	220	Unfiltered		LAS
RD-33B		Primary	05/27/98	Tritium	-173 U	120	205	Unfiltered		TN
RD-33B		Primary	08/17/98	Tritium	-22.9 U	120	208	Unfiltered		TN
RD-33B		Primary	02/03/99	Tritium	-6.96 U	100	171	Unfiltered		TMA

See last page of table for notes and abbreviations.

TABLE E-II
RESULTS OF ANALYSES FOR TRITIUM IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-33B		Primary	08/11/99	Tritium	-1.67 U	88	150	Unfiltered		TN
RD-33B		Primary	05/17/00	Tritium	-38.6 U	100	180	Unfiltered		TR
RD-33B		Primary	08/09/00	Tritium	64.1 U	130	219	Unfiltered		TR
RD-33B		Primary	02/17/01	Tritium	-67.1 U	120	204	Unfiltered		ES
RD-33B		Primary	10/30/01	Tritium	0 U	80	264	Unfiltered		DL
RD-33B		Primary	02/15/02	Tritium	0 U	118	384	Unfiltered		DL
RD-33B		Primary	08/21/02	Tritium	-56.4 U	120	208	Unfiltered		ES
RD-33B		Primary	02/11/03	Tritium	87.7 U	120	194	Unfiltered		ES
RD-33B		Primary	11/13/03	Tritium	52 U	120	199	Unfiltered		ES
RD-33B		Primary	11/04/04	Tritium	26.5 U	95	160	Unfiltered		ES
RD-33B		Primary	02/17/05	Tritium	193 U	120	201	Unfiltered		ES
RD-33B		Split	02/17/05	Tritium	-10.7 U	85.4	130	Unfiltered		STL
RD-33B		Primary	08/22/05	Tritium	85.4 U	160	263	Unfiltered		ES
RD-33B		Split	08/22/05	Tritium	51.1 U	68.5	103	Unfiltered		STL
RD-33B		Primary	02/16/06	Tritium	14.4 U	95	160	Unfiltered		ES
RD-33B		Primary	08/09/06	Tritium	-97.3 U	93	160	Unfiltered		ES
RD-33B		Split	08/09/06	Tritium	-96.9 U	78	126	Unfiltered		STL
RD-33B		Primary	02/07/07	Tritium	4.49 U	51	84.6	Unfiltered		ES
RD-33B		Primary	08/14/07	Tritium	14.8 U	50	83.8	Unfiltered		ES
RD-33B		Primary	02/13/08	Tritium	-38.4 U	89	153	Unfiltered		ES
RD-33B		Primary	08/07/08	Tritium	-10.5 U	100	177	Unfiltered		ES
RD-33C		Primary	12/05/91	Tritium	68.3 U	219	500	Unfiltered		IT
RD-33C		Primary	12/12/91	Tritium	-21.1 U	214	500	Unfiltered		IT
RD-33C		Split	12/12/91	Tritium	500 U	---	500	Unfiltered		CEP
RD-33C		Primary	06/08/92	Tritium	368 U	518	500	Unfiltered		CEP
RD-33C		Primary	09/15/92	Tritium	241 U	500	500	Unfiltered		CEP
RD-33C		Primary	12/05/92	Tritium	-215 U	500	500	Unfiltered		CEP
RD-33C		Primary	06/24/93	Tritium	-280 U	500	500	Unfiltered		CEP
RD-33C		Primary	08/24/93	Tritium	159 U	500	500	Unfiltered		CEP
RD-33C		Primary	11/17/93	Tritium	30 U	130	240	Unfiltered		LAS
RD-33C		Primary	02/27/94	Tritium	0 U	140	270	Unfiltered		LAS
RD-33C		Primary	05/09/94	Tritium	-20 U	120	240	Unfiltered		LAS
RD-33C		Primary	08/17/94	Tritium	-40 U	130	260	Unfiltered		LAS
RD-33C		Primary	02/07/95	Tritium	-10 U	200	260	Unfiltered		LAS
RD-33C		Primary	08/09/95	Tritium	0 U	210	280	Unfiltered		LAS
RD-33C		Primary	02/19/96	Tritium	40 U	190	230	Unfiltered		LAS
RD-33C		Primary	08/22/96	Tritium	30 U	120	220	Unfiltered		LAS
RD-33C		Primary	02/25/97	Tritium	40 U	120	210	Unfiltered		LAS
RD-33C		Primary	08/21/97	Tritium	-20 U	120	220	Unfiltered		LAS
RD-33C		Primary	05/27/98	Tritium	-149 U	120	210	Unfiltered		TN
RD-33C		Primary	08/17/98	Tritium	37.4 U	130	213	Unfiltered		TN
RD-33C		Primary	02/03/99	Tritium	-2.3 U	99	169	Unfiltered		TN
RD-33C		Primary	08/11/99	Tritium	1.7 U	90	153	Unfiltered		TN
RD-33C		Primary	02/09/00	Tritium	-90.6 U	110	193	Unfiltered		TN
RD-33C		Primary	08/09/00	Tritium	77.5 U	130	221	Unfiltered		TR
RD-33C		Primary	02/17/01	Tritium	-50 U	120	203	Unfiltered		ES

See last page of table for notes and abbreviations.

TABLE E-II
RESULTS OF ANALYSES FOR TRITIUM IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-33C		Primary	10/30/01	Tritium	0 U	78	264	Unfiltered		DL
RD-33C		Primary	02/15/02	Tritium	175 U	121	384	Unfiltered		DL
RD-33C		Primary	08/20/02	Tritium	55.8 U	120	205	Unfiltered		ES
RD-33C		Primary	02/10/03	Tritium	73.1 U	120	201	Unfiltered		ES
RD-33C		Split	11/13/03	Tritium	-23.3 U	46.7	82.2	Unfiltered		STL
RD-33C		Primary	11/13/03	Tritium	107 U	110	188	Unfiltered		ES
RD-33C		Primary	11/04/04	Tritium	-30.7 U	93	159	Unfiltered		ES
RD-33C		Split	11/04/04	Tritium	23.1 U	46	89.2	Unfiltered		STL
RD-33C		Primary	02/16/05	Tritium	-79.4 U	120	201	Unfiltered		ES
RD-33C		Primary	08/22/05	Tritium	22.2 U	150	262	Unfiltered		ES
RD-33C		Primary	02/16/06	Tritium	55 U	98	163	Unfiltered		ES
RD-33C		Primary	08/08/06	Tritium	-87.5 U	92	158	Unfiltered		ES
RD-33C		Primary	02/06/07	Tritium	-52.9 U	53	89.2	Unfiltered		ES
RD-33C		Primary	08/07/07	Tritium	10.2 U	59	98	Unfiltered		ES
RD-33C		Primary	02/12/08	Tritium	-80.5 U	86	151	Unfiltered		ES
RD-33C		Primary	08/07/08	Tritium	-18.8 U	100	176	Unfiltered		ES
RD-34A		Primary	12/05/91	Tritium	7040	685	500	Unfiltered		IT
RD-34A		Split	12/05/91	Tritium	7155	632	500	Unfiltered		CEP
RD-34A		Primary	03/10/92	Tritium	7069	598	500	Unfiltered		CEP
RD-34A		Split	03/10/92	Tritium	6700	200	500	Unfiltered		TEL
RD-34A		Primary	06/08/92	Tritium	2529	548	500	Unfiltered		CEP
RD-34A		Primary	09/13/92	Tritium	1841	527	500	Unfiltered		CEP
RD-34A		Split	09/13/92	Tritium	1800	300	500	Unfiltered		BL
RD-34A		Primary	12/05/92	Tritium	3006	545	500	Unfiltered		CEP
RD-34A		Reanalysis of Primary	12/05/92	Tritium	4180	768	500	Unfiltered		CEP
RD-34A		Split	12/05/92	Tritium	3500	400	500	Unfiltered		BL
RD-34A		Primary	03/09/93	Tritium	1119	743	500	Unfiltered		CEP
RD-34A		Primary	06/22/93	Tritium	657	500	500	Unfiltered		CEP
RD-34A		Primary	08/24/93	Tritium	812	639	500	Unfiltered		CEP
RD-34A		Primary	11/18/93	Tritium	990	230	240	Unfiltered		LAS
RD-34A		Primary	02/26/94	Tritium	3550	440	280	Unfiltered		LAS
RD-34A		Primary	05/09/94	Tritium	3430	390	230	Unfiltered		LAS
RD-34A		Primary	08/09/94	Tritium	2710	380	270	Unfiltered		LAS
RD-34A		Primary	11/09/94	Tritium	1860	340	240	Unfiltered		LAS
RD-34A		Primary	02/07/95	Tritium	3200	440	260	Unfiltered		LAS
RD-34A		Primary	08/09/95	Tritium	2080	380	280	Unfiltered		LAS
RD-34A		Primary	02/19/96	Tritium	4020	420	220	Unfiltered		LAS
RD-34A		Primary	08/18/96	Tritium	4250	470	220	Unfiltered		LAS
RD-34A		Primary	02/07/97	Tritium	4870	500	220	Unfiltered		LAS
RD-34A		Primary	05/27/98	Tritium	2210	180	213	Unfiltered		TN
RD-34A		Primary	08/18/98	Tritium	2060	180	200	Unfiltered		TN
RD-34A		Primary	08/29/00	Tritium	2440	150	146	Unfiltered		TR
RD-34A		Primary	05/09/01	Tritium	3120	200	196	Unfiltered		ES
RD-34A		Primary	05/16/03	Tritium	2420	300	175	Unfiltered		ES
RD-34A		Primary	05/17/04	Tritium	2190	260	145	Unfiltered		ES
RD-34A		Primary	08/09/04	Tritium	2440	290	160	Unfiltered		ES

See last page of table for notes and abbreviations.

TABLE E-II
RESULTS OF ANALYSES FOR TRITIUM IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-34A		Primary	02/17/05	Tritium	1050	180	204	Unfiltered		ES
RD-34A		Primary	08/25/05	Tritium	1010	240	300	Unfiltered		ES
RD-34A		Primary	02/21/06	Tritium	1710	210	162	Unfiltered		ES
RD-34A		Primary	11/16/06	Tritium	1100	220	189	Unfiltered		ES
RD-34A		Primary	02/15/07	Tritium	1160	140	92.6	Unfiltered		ES
RD-34A		Primary	08/15/07	Tritium	1230	140	83.3	Unfiltered		ES
RD-34A		Primary	02/06/08	Tritium	1110	160	147	Unfiltered		ES
RD-34A		Primary	08/07/08	Tritium	876	160	177	Unfiltered		ES
RD-34B		Primary	12/05/91	Tritium	336 U	234	500	Unfiltered		IT
RD-34B		Primary	12/11/91	Tritium	820	538	500	Unfiltered		CEP
RD-34B		Split	12/11/91	Tritium	236 U	230	500	Unfiltered		IT
RD-34B		Primary	03/10/92	Tritium	500 U	---	500	Unfiltered		CEP
RD-34B		Split	03/10/92	Tritium	390 U	100	500	Unfiltered		TEL
RD-34B		Primary	06/08/92	Tritium	534	520	500	Unfiltered		CEP
RD-34B		Primary	09/13/92	Tritium	400 U	500	500	Unfiltered		CEP
RD-34B		Split	09/13/92	Tritium	420 U	290	500	Unfiltered		BL
RD-34B		Primary	12/05/92	Tritium	121 U	500	500	Unfiltered		CEP
RD-34B		Primary	03/21/93	Tritium	125 U	490	500	Unfiltered		CEP
RD-34B		Primary	06/23/93	Tritium	-387 U	500	500	Unfiltered		CEP
RD-34B		Primary	08/24/93	Tritium	286 U	500	500	Unfiltered		CEP
RD-34B		Primary	11/18/93	Tritium	210 U	150	240	Unfiltered		LAS
RD-34B		Primary	02/26/94	Tritium	60 U	150	280	Unfiltered		LAS
RD-34B		Primary	05/10/94	Tritium	220 U	150	230	Unfiltered		LAS
RD-34B		Primary	08/09/94	Tritium	0 U	140	270	Unfiltered		LAS
RD-34B		Primary	11/09/94	Tritium	170 U	190	240	Unfiltered		LAS
RD-34B		Primary	02/07/95	Tritium	220 U	220	260	Unfiltered		LAS
RD-34B		Primary	02/07/95	Tritium	205	12	6.6	Unfiltered	Analysis conducted using electrolytic enrichment	LAS
RD-34B		Primary	08/09/95	Tritium	90 U	220	280	Unfiltered		LAS
RD-34B		Primary	02/19/96	Tritium	448	21	6.4	Unfiltered	Analysis conducted using electrolytic enrichment	LAS
RD-34B		Primary	02/19/96	Tritium	440	55	53	Unfiltered		LAS
RD-34B		Primary	08/18/96	Tritium	330	160	220	Unfiltered		LAS
RD-34B		Primary	02/07/97	Tritium	150 U	130	210	Unfiltered		LAS
RD-34B		Primary	08/21/97	Tritium	200 U	140	220	Unfiltered		LAS
RD-34B		Primary	05/27/98	Tritium	372	130	208	Unfiltered		TN
RD-34B		Primary	08/18/98	Tritium	376	140	208	Unfiltered		TN
RD-34B		Primary	02/04/99	Tritium	650	120	162	Unfiltered		TN
RD-34B		Primary	08/11/99	Tritium	176	100	164	Unfiltered		TN
RD-34B		Primary	02/05/00	Tritium	200	120	196	Unfiltered		TN
RD-34B		Primary	02/16/01	Tritium	180 U	130	208	Unfiltered		ES
RD-34B		Primary	11/02/01	Tritium	89 U	103	238	Unfiltered		DL
RD-34B		Primary	02/15/02	Tritium	151 U	121	384	Unfiltered		DL
RD-34B		Primary	08/23/02	Tritium	-40.8 U	120	206	Unfiltered		ES
RD-34B		Primary	02/06/03	Tritium	171 U	110	182	Unfiltered		ES
RD-34B		Primary	11/13/03	Tritium	254	120	196	Unfiltered		ES
RD-34B		Primary	02/24/04	Tritium	105 U	110	188	Unfiltered		ES

See last page of table for notes and abbreviations.

TABLE E-II
RESULTS OF ANALYSES FOR TRITIUM IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-34B		Primary	08/09/04	Tritium	60.5 U	99	165	Unfiltered		ES
RD-34B		Primary	02/15/05	Tritium	180 U	120	196	Unfiltered		ES
RD-34B		Primary	08/23/05	Tritium	145 U	180	296	Unfiltered		ES
RD-34B		Primary	02/17/06	Tritium	154 U	100	169	Unfiltered		ES
RD-34B		Primary	08/09/06	Tritium	340	110	159	Unfiltered		ES
RD-34B		Primary	08/14/07	Tritium	188 J	56	82.2	Unfiltered		ES
RD-34B		Primary	02/06/08	Tritium	89.4 U	89	146	Unfiltered		ES
RD-34B		Primary	08/07/08	Tritium	263	110	176	Unfiltered		ES
RD-34C		Primary	12/06/91	Tritium	71.2 U	215	500	Unfiltered		IT
RD-34C		Primary	12/12/91	Tritium	30.8 U	217	500	Unfiltered		IT
RD-34C		Split	12/12/91	Tritium	500 U	---	500	Unfiltered		CEP
RD-34C		Primary	03/10/92	Tritium	500 U	---	500	Unfiltered		CEP
RD-34C		Split	03/10/92	Tritium	100 U	---	100	Unfiltered		TEL
RD-34C		Primary	06/08/92	Tritium	455 U	519	500	Unfiltered		CEP
RD-34C		Primary	09/13/92	Tritium	357 U	500	500	Unfiltered		CEP
RD-34C		Split	09/13/92	Tritium	-140 U	270	500	Unfiltered		BL
RD-34C		Primary	12/05/92	Tritium	-373 U	494	500	Unfiltered		CEP
RD-34C		Primary	03/09/93	Tritium	300 U	499	500	Unfiltered		CEP
RD-34C		Primary	06/24/93	Tritium	158 U	500	500	Unfiltered		CEP
RD-34C		Primary	08/24/93	Tritium	101 U	500	500	Unfiltered		CEP
RD-34C		Primary	11/06/93	Tritium	140 U	140	230	Unfiltered		LAS
RD-34C		Primary	02/26/94	Tritium	-30 U	140	270	Unfiltered		LAS
RD-34C		Primary	05/09/94	Tritium	-20 U	120	230	Unfiltered		LAS
RD-34C		Primary	08/09/94	Tritium	-80 U	130	270	Unfiltered		LAS
RD-34C		Primary	11/09/94	Tritium	40 U	170	240	Unfiltered		LAS
RD-34C		Primary	02/07/95	Tritium	-10 U	200	260	Unfiltered		LAS
RD-34C		Primary	08/10/95	Tritium	-240 U	180	300	Unfiltered		LAS
RD-34C		Primary	02/19/96	Tritium	-290 U	160	230	Unfiltered		LAS
RD-34C		Primary	08/19/96	Tritium	30 U	110	200	Unfiltered		LAS
RD-34C		Primary	02/07/97	Tritium	40 U	120	220	Unfiltered		LAS
RD-34C		Primary	08/21/97	Tritium	-30 U	110	210	Unfiltered		LAS
RD-34C		Primary	05/27/98	Tritium	-184 U	120	210	Unfiltered		TN
RD-34C		Primary	08/17/98	Tritium	127 U	120	203	Unfiltered		TN
RD-34C		Primary	02/04/99	Tritium	11.4 U	99	169	Unfiltered		TN
RD-34C		Primary	08/12/99	Tritium	45 U	93	156	Unfiltered		TN
RD-34C		Primary	02/05/00	Tritium	-75.5 U	120	208	Unfiltered		TN
RD-34C		Primary	08/08/00	Tritium	16 U	130	218	Unfiltered		TR
RD-34C		Primary	02/16/01	Tritium	-111 U	120	207	Unfiltered		ES
RD-34C		Primary	11/02/01	Tritium	20 U	102	238	Unfiltered		DL
RD-34C		Primary	02/14/02	Tritium	0 U	115	384	Unfiltered		DL
RD-34C		Primary	08/28/02	Tritium	-74.5 U	120	210	Unfiltered		ES
RD-34C		Primary	02/06/03	Tritium	-78.4 U	110	184	Unfiltered		ES
RD-34C		Primary	11/13/03	Tritium	-33.1 U	110	190	Unfiltered		ES
RD-34C		Primary	02/24/04	Tritium	-59.8 U	110	185	Unfiltered		ES
RD-34C		Primary	08/09/04	Tritium	-28 U	95	163	Unfiltered		ES
RD-34C		Split	08/09/04	Tritium	43.3 U	58.4	101	Unfiltered		STL

See last page of table for notes and abbreviations.

TABLE E-II
RESULTS OF ANALYSES FOR TRITIUM IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-34C		Primary	02/15/05	Tritium	-7.5 U	120	199	Unfiltered		ES
RD-34C		Primary	08/23/05	Tritium	-100 U	170	301	Unfiltered		ES
RD-34C		Primary	02/21/06	Tritium	108 U	92	162	Unfiltered		ES
RD-34C		Split	02/21/06	Tritium	-40.2 U	150	328	Unfiltered		STL
RD-34C		Primary	08/09/06	Tritium	-69 U	100	174	Unfiltered		ES
RD-34C		Primary	02/07/07	Tritium	31.4 U	51	84.4	Unfiltered		ES
RD-34C		Primary	08/08/07	Tritium	-70.2 U	58	99.5	Unfiltered		ES
RD-34C		Primary	02/12/08	Tritium	-7.73 U	90	154	Unfiltered		ES
RD-34C		Primary	08/07/08	Tritium	31.3 U	100	176	Unfiltered		ES
RD-35B		Primary	05/07/99	Tritium	17.4 U	100	176	Unfiltered		TN
RD-36D		Primary	11/13/97	Tritium	30 U	110	190	Unfiltered		LAS
RD-38B		Primary	02/17/99	Tritium	20.1 U	120	200	Unfiltered		TN
RD-45A		Primary	05/05/94	Tritium	30 U	130	230	Unfiltered		LAS
RD-45C		Primary	10/06/94	Tritium	-70 U	120	---	Unfiltered		LAS
RD-46B		Primary	02/15/99	Tritium	125 U	120	197	Unfiltered		TN
RD-47		Primary	08/07/95	Tritium	1.4 U	5.2	5.9	Unfiltered		LAS
RD-48A		Primary	08/06/95	Tritium	11.6	6.6	7.7	Unfiltered		LAS
RD-48B		Primary	08/07/95	Tritium	3 U	5.6	7	Unfiltered		LAS
RD-48C		Primary	08/06/95	Tritium	14.9	6.4	7.2	Unfiltered		LAS
RD-50		Primary	05/05/94	Tritium	60 U	130	---	Unfiltered		LAS
RD-50		Primary	05/19/95	Tritium	-30 U	180	230	Unfiltered		LAS
RD-50		Primary	05/14/96	Tritium	-30 U	170	220	Unfiltered		LAS
RD-50		Primary	05/05/97	Tritium	550	170	200	Unfiltered		LAS
RD-50		Primary	05/28/98	Tritium	-18.6 U	110	186	Unfiltered		TN
RD-51C		Primary	12/14/91	Tritium	32.7 U	219	500	Unfiltered		IT
RD-51C		Primary	03/06/92	Tritium	500 U	---	500	Unfiltered		CEP
RD-54A		Primary	09/12/93	Tritium	-52 U	500	500	Unfiltered		CEP
RD-54A		Primary	09/29/93	Tritium	169 U	500	500	Unfiltered		CEP
RD-54A		Primary	05/26/94	Tritium	270	160	230	Unfiltered		LAS
RD-54A		Primary	08/09/94	Tritium	130 U	160	260	Unfiltered		LAS
RD-54A		Primary	08/03/95	Tritium	60 U	220	280	Unfiltered		LAS
RD-54A		Primary	05/16/96	Tritium	270	200	220	Unfiltered		LAS
RD-54A		Primary	08/23/96	Tritium	440	150	180	Unfiltered		LAS
RD-54A		Primary	05/05/97	Tritium	430	150	190	Unfiltered		LAS
RD-54A		Primary	08/22/97	Tritium	370	160	220	Unfiltered		LAS
RD-54A		Primary	02/08/98	Tritium	354	130	192	Unfiltered		TN
RD-54A		Primary	08/07/98	Tritium	497	140	216	Unfiltered		TN
RD-54A		Primary	02/08/99	Tritium	697	160	212	Unfiltered		TN
RD-54A		Primary	08/18/99	Tritium	491	110	157	Unfiltered		TN
RD-54A		Primary	03/15/00	Tritium	332	120	181	Unfiltered		TN
RD-54A		Primary	10/26/01	Tritium	139 U	109	249	Unfiltered		DL
RD-54A		Primary	02/27/02	Tritium	67 U	56	350	Unfiltered		DL
RD-54A		Primary	08/14/02	Tritium	105 U	120	200	Unfiltered		ES

See last page of table for notes and abbreviations.

TABLE E-II
RESULTS OF ANALYSES FOR TRITIUM IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-54A	Z2	Primary	02/18/03	Tritium	10.7 U	110	194	Unfiltered		ES
RD-54A	Z2	Primary	08/26/03	Tritium	25.3 U	110	190	Unfiltered		ES
RD-54A	Z2	Primary	11/03/04	Tritium	64.5 U	96	160	Unfiltered		ES
RD-54A	Z2	Primary	02/16/05	Tritium	14 U	150	256	Unfiltered		ES
RD-54A	Z2	Primary	08/31/05	Tritium	205 U	170	268	Unfiltered		ES
RD-54A	Z2	Primary	02/16/06	Tritium	270	100	165	Unfiltered		ES
RD-54A	Z2	Primary	08/17/06	Tritium	161 J	100	161	Unfiltered		ES
RD-54A	Z2	Primary	02/07/07	Tritium	244	61	85.2	Unfiltered		ES
RD-54A	Z2	Primary	08/10/07	Tritium	47.8 U	58	96.3	Unfiltered		ES
RD-54A	Z2	Primary	02/06/08	Tritium	-17.2 U	87	148	Unfiltered		ES
RD-54A	Z2	Primary	08/07/08	Tritium	99.9 U	110	176	Unfiltered		ES
RD-54B		Primary	09/12/93	Tritium	77 U	500	500	Unfiltered		CEP
RD-54B		Primary	09/29/93	Tritium	378 U	500	500	Unfiltered		CEP
RD-54B		Primary	05/08/94	Tritium	-20 U	120	230	Unfiltered		LAS
RD-54B		Primary	08/08/94	Tritium	-110 U	120	270	Unfiltered		LAS
RD-54B		Primary	08/30/95	Tritium	100 U	240	310	Unfiltered		LAS
RD-54B		Primary	05/16/96	Tritium	40 U	180	220	Unfiltered		LAS
RD-54B		Primary	08/21/96	Tritium	-27 U	91	180	Unfiltered		LAS
RD-54B		Primary	08/22/97	Tritium	-80 U	100	210	Unfiltered		LAS
RD-54B		Primary	02/08/98	Tritium	40.8 U	110	193	Unfiltered		TN
RD-54B		Primary	08/07/98	Tritium	26.4 U	130	218	Unfiltered		TN
RD-54B		Primary	02/08/99	Tritium	-59.8 U	120	209	Unfiltered		TN
RD-54B		Primary	08/18/99	Tritium	-6.88 U	92	157	Unfiltered		TN
RD-54B		Primary	03/15/00	Tritium	0 U	0	181	Unfiltered		TN
RD-54B		Primary	10/25/01	Tritium	0 U	79	264	Unfiltered		DL
RD-54B		Primary	02/27/02	Tritium	191 U	59	350	Unfiltered		DL
RD-54B		Primary	08/21/02	Tritium	-21.9 U	120	210	Unfiltered		ES
RD-54B		Primary	02/26/03	Tritium	24.2 U	110	187	Unfiltered		ES
RD-54B		Primary	08/07/03	Tritium	-31.7 U	110	190	Unfiltered		ES
RD-54B		Primary	02/16/05	Tritium	136 U	120	200	Unfiltered		ES
RD-54B		Primary	08/22/05	Tritium	3.69 U	150	261	Unfiltered		ES
RD-54B		Primary	02/20/06	Tritium	101 U	100	170	Unfiltered		ES
RD-54B		Primary	08/23/06	Tritium	-77.8 U	100	175	Unfiltered		ES
RD-54B		Primary	02/12/07	Tritium	0 U	58	96.2	Unfiltered		ES
RD-54B		Primary	08/14/07	Tritium	-12.7 U	52	86.7	Unfiltered		ES
RD-54B		Primary	02/14/08	Tritium	-25 U	91	156	Unfiltered		ES
RD-54B		Primary	11/07/08	Tritium	-66.9 U	100	178	Unfiltered		ES
RD-54C		Primary	09/11/93	Tritium	58 U	500	500	Unfiltered		CEP
RD-54C		Primary	09/29/93	Tritium	236 U	500	500	Unfiltered		CEP
RD-54C		Primary	05/08/94	Tritium	0 U	120	230	Unfiltered		LAS
RD-54C		Primary	08/08/94	Tritium	-30 U	140	270	Unfiltered		LAS
RD-54C		Primary	08/30/95	Tritium	-10 U	230	310	Unfiltered		LAS
RD-54C		Primary	05/16/96	Tritium	-40 U	170	220	Unfiltered		LAS
RD-54C		Primary	08/23/96	Tritium	50 U	100	180	Unfiltered		LAS
RD-54C		Primary	05/05/97	Tritium	20 U	110	200	Unfiltered		LAS
RD-54C		Primary	08/24/97	Tritium	10 U	110	210	Unfiltered		LAS

See last page of table for notes and abbreviations.

TABLE E-II
RESULTS OF ANALYSES FOR TRITIUM IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-54C		Primary	02/08/98	Tritium	38.3 U	110	192	Unfiltered		TN
RD-54C		Primary	08/07/98	Tritium	35.4 U	130	215	Unfiltered		TN
RD-54C		Primary	02/09/99	Tritium	81 U	120	204	Unfiltered		TN
RD-54C		Primary	08/18/99	Tritium	28.2 U	96	161	Unfiltered		TN
RD-54C		Primary	03/15/00	Tritium	28.8 U	110	181	Unfiltered		TN
RD-54C		Primary	11/02/01	Tritium	36 U	81	264	Unfiltered		DL
RD-54C		Primary	02/27/02	Tritium	221 U	57	350	Unfiltered		DL
RD-54C		Primary	08/22/02	Tritium	67.4 U	130	208	Unfiltered		ES
RD-54C		Primary	02/26/03	Tritium	-79.1 U	110	188	Unfiltered		ES
RD-54C		Primary	08/26/03	Tritium	-12.4 U	110	186	Unfiltered		ES
RD-54C		Primary	11/05/04	Tritium	25.9 U	93	156	Unfiltered		ES
RD-54C		Primary	02/17/05	Tritium	-34 U	120	201	Unfiltered		ES
RD-54C		Split	02/17/05	Tritium	-2.69 U	8.51	128	Unfiltered		STL
RD-54C		Primary	08/22/05	Tritium	36.6 U	150	260	Unfiltered		ES
RD-54C		Primary	02/23/06	Tritium	-45.9 U	97	167	Unfiltered		ES
RD-54C		Primary	08/10/06	Tritium	-36 U	95	161	Unfiltered		ES
RD-54C		Primary	02/12/07	Tritium	-14.3 U	57	94.7	Unfiltered		ES
RD-54C		Primary	08/07/07	Tritium	-2.55 U	58	97.6	Unfiltered		ES
RD-54C		Primary	02/14/08	Tritium	-58 U	90	156	Unfiltered		ES
RD-54C		Primary	08/07/08	Tritium	12.5 U	100	176	Unfiltered		ES
RD-56A		Primary	05/10/94	Tritium	-40 U	110	230	Unfiltered		LAS
RD-56A		Primary	02/20/96	Tritium	-10 U	180	230	Unfiltered		LAS
RD-56A		Primary	02/06/97	Tritium	96	59	93	Unfiltered		LAS
RD-56A		Primary	05/28/98	Tritium	16.2 U	110	185	Unfiltered		TN
RD-56B		Primary	05/28/98	Tritium	-35.2 U	110	188	Unfiltered		TN
RD-57		Primary	03/16/94	Tritium	-50 U	100	230	Unfiltered		LAS
RD-57		Primary	05/10/94	Tritium	-60 U	110	---	Unfiltered		LAS
RD-57		Primary	08/18/94	Tritium	60 U	150	260	Unfiltered		LAS
RD-57		Primary	02/07/95	Tritium	-100 U	190	260	Unfiltered		LAS
RD-57		Primary	08/09/95	Tritium	-110 U	200	270	Unfiltered		LAS
RD-57		Primary	02/19/96	Tritium	-150 U	170	230	Unfiltered		LAS
RD-57		Primary	08/22/96	Tritium	-19 U	92	180	Unfiltered		LAS
RD-57		Primary	02/25/97	Tritium	150 U	130	210	Unfiltered		LAS
RD-57		Primary	08/27/97	Tritium	0 U	100	190	Unfiltered		LAS
RD-57		Primary	05/26/98	Tritium	-144 U	120	207	Unfiltered		TN
RD-57		Primary	08/17/98	Tritium	-7.03 U	130	214	Unfiltered		TN
RD-57		Primary	05/13/99	Tritium	17.4 U	100	176	Unfiltered		TN
RD-57		Primary	08/11/99	Tritium	48.8 U	94	156	Unfiltered		TN
RD-57		Primary	02/09/00	Tritium	-84.4 U	110	200	Unfiltered		TN
RD-57		Primary	08/08/00	Tritium	-14.7 U	130	226	Unfiltered		TR
RD-57		Primary	05/11/01	Tritium	-35.8 U	120	200	Unfiltered		ES
RD-57		Primary	10/31/01	Tritium	0 U	80	264	Unfiltered		DL
RD-57		Primary	02/14/02	Tritium	10 U	120	384	Unfiltered		DL
RD-57		Primary	08/14/02	Tritium	0 U	0	201	Unfiltered		ES
RD-57	Z8	Primary	01/29/03	Tritium	-57.7 U	110	187	Unfiltered		ES
RD-57	Z8	Primary	04/30/03	Tritium	18.8 U	99	167	Unfiltered		ES

See last page of table for notes and abbreviations.

TABLE E-II
RESULTS OF ANALYSES FOR TRITIUM IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-57	Z8	Primary	08/27/03	Tritium	-24.8 U	110	186	Unfiltered		ES
RD-57	Z7	Primary	11/18/04	Tritium	-35.6 U	130	231	Unfiltered		ES
RD-57	Z7	Primary	03/08/05	Tritium	-43.5 U	100	170	Unfiltered		ES
RD-57	Z7	Primary	09/01/05	Tritium	-68.6 U	100	174	Unfiltered		ES
RD-57	Z7	Primary	02/20/06	Tritium	120 U	100	164	Unfiltered		ES
RD-57	Z7	Primary	08/18/06	Tritium	-43.1 U	100	175	Unfiltered		ES
RD-57	Z7	Primary	02/08/07	Tritium	-30.2 U	56	93.8	Unfiltered		ES
RD-57	Z8	Primary	08/14/07	Tritium	17.3 U	51	84.3	Unfiltered		ES
RD-57	Z8	Primary	02/07/08	Tritium	-12.4 U	82	140	Unfiltered		ES
RD-57	Z5	Primary	08/08/08	Tritium	-12.6 U	100	177	Unfiltered		ES
RD-59A		Primary	08/16/94	Tritium	-70 U	120	260	Unfiltered		LAS
RD-59A		Primary	02/06/95	Tritium	69.5	7.2	6	Unfiltered	Analysis conducted using electrolytic enrichment	LAS
RD-59A		Primary	02/06/95	Tritium	160 U	220	260	Unfiltered		LAS
RD-59A		Duplicate	02/06/95	Tritium	-140 U	190	270	Unfiltered		LAS
RD-59A		Primary	08/08/95	Tritium	-100 U	200	290	Unfiltered		LAS
RD-59A		Primary	03/12/96	Tritium	29.4	6.6	7	Unfiltered		LAS
RD-59A		Primary	08/21/96	Tritium	-28 U	91	180	Unfiltered		LAS
RD-59A		Primary	02/16/97	Tritium	200 U	150	220	Unfiltered		LAS
RD-59A		Primary	08/22/97	Tritium	-30 U	110	210	Unfiltered		LAS
RD-59A		Primary	08/19/98	Tritium	-2.44 U	130	222	Unfiltered		TN
RD-59A		Primary	02/16/99	Tritium	107 U	120	194	Unfiltered		TN
RD-59A		Primary	08/06/99	Tritium	52.9 U	95	158	Unfiltered		TN
RD-59A		Primary	03/14/00	Tritium	19.2 U	110	181	Unfiltered		TN
RD-59A		Primary	08/10/00	Tritium	13 U	140	229	Unfiltered		TR
RD-59A		Primary	05/16/01	Tritium	-23.2 U	120	200	Unfiltered		ES
RD-59A		Primary	11/12/01	Tritium	968 S	115	238	Unfiltered		DL
RD-59A		Primary	02/28/02	Tritium	536 S	115	350	Unfiltered		DL
RD-59A		Primary	08/08/02	Tritium	74.2 U	120	201	Unfiltered		ES
RD-59A		Primary	01/31/03	Tritium	23.9 U	110	187	Unfiltered		ES
RD-59A		Split	05/15/03	Tritium	-12.3 U	51.5	110	Unfiltered		STL
RD-59A		Primary	05/15/03	Tritium	29.7 U	100	171	Unfiltered		ES
RD-59A		Split	08/08/03	Tritium	17.1 U	49	86.9	Unfiltered		STL
RD-59A		Primary	08/08/03	Tritium	-33.7 U	110	190	Unfiltered		ES
RD-59A		Split	11/14/03	Tritium	-8.74 U	46.3	83.2	Unfiltered		STL
RD-59A		Primary	11/14/03	Tritium	-82.5 U	110	199	Unfiltered		ES
RD-59A		Primary	11/16/04	Tritium	-94.7 U	130	228	Unfiltered		ES
RD-59A		Primary	09/07/05	Tritium	-86.5 U	100	176	Unfiltered		ES
RD-59A		Primary	08/23/06	Tritium	4.28 U	110	175	Unfiltered		ES
RD-59A		Primary	11/14/06	Tritium	-100 U	180	190	Unfiltered		ES
RD-59A		Primary	02/28/07	Tritium	58.5 U	55	90.6	Unfiltered		ES
RD-59A		Primary	08/16/07	Tritium	23.9 U	49	81.4	Unfiltered		ES
RD-59A		Primary	05/20/08	Tritium	-44.1 U	93	160	Unfiltered		ES
RD-59A		Primary	08/14/08	Tritium	-57.5 U	92	158	Unfiltered		ES
RD-59B		Primary	08/29/94	Tritium	40 U	150	---	Unfiltered		LAS
RD-59B		Primary	02/06/95	Tritium	-150 U	180	260	Unfiltered		LAS

See last page of table for notes and abbreviations.

TABLE E-II
RESULTS OF ANALYSES FOR TRITIUM IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-59B		Primary	08/08/95	Tritium	-90 U	200	280	Unfiltered		LAS
RD-59B		Primary	03/12/96	Tritium	-80 U	100	180	Unfiltered		LAS
RD-59B		Primary	08/21/96	Tritium	38 U	98	180	Unfiltered		LAS
RD-59B		Primary	02/16/97	Tritium	20 U	120	230	Unfiltered		LAS
RD-59B		Primary	08/22/97	Tritium	-30 U	110	210	Unfiltered		LAS
RD-59B		Primary	08/19/98	Tritium	68.8 U	130	209	Unfiltered		TN
RD-59B		Primary	02/16/99	Tritium	26.3 U	110	196	Unfiltered		TN
RD-59B		Primary	08/06/99	Tritium	24.3 U	93	156	Unfiltered		TN
RD-59B		Primary	03/14/00	Tritium	-67.2 U	100	181	Unfiltered		TN
RD-59B		Primary	08/10/00	Tritium	-23.7 U	130	224	Unfiltered		TR
RD-59B		Primary	02/17/01	Tritium	-68.1 U	120	200	Unfiltered		ES
RD-59B		Primary	11/12/01	Tritium	101 U	104	238	Unfiltered		DL
RD-59B		Primary	02/28/02	Tritium	222 U	58	350	Unfiltered		DL
RD-59B		Primary	08/08/02	Tritium	55.1 U	120	202	Unfiltered		ES
RD-59B		Primary	01/31/03	Tritium	-31.1 U	110	183	Unfiltered		ES
RD-59B		Primary	08/08/03	Tritium	-21.2 U	110	192	Unfiltered		ES
RD-59B		Primary	11/05/04	Tritium	-32.1 U	93	159	Unfiltered		ES
RD-59B		Primary	09/07/05	Tritium	-61.2 U	99	171	Unfiltered		ES
RD-59B		Primary	02/22/06	Tritium	41.9 U	100	169	Unfiltered		ES
RD-59B		Primary	08/23/06	Tritium	-42.8 U	100	171	Unfiltered		ES
RD-59B		Primary	11/14/06	Tritium	-144 U	170	187	Unfiltered		ES
RD-59B		Primary	02/28/07	Tritium	9.38 U	55	90.8	Unfiltered		ES
RD-59B		Split	02/28/07	Tritium	-28 U	73	118	Unfiltered		STL
RD-59B		Primary	08/16/07	Tritium	38.8 U	50	82.5	Unfiltered		ES
RD-59B		Primary	05/20/08	Tritium	-57.5 U	91	158	Unfiltered		ES
RD-59B		Primary	08/14/08	Tritium	-70.3 U	92	158	Unfiltered		ES
RD-59C		Primary	06/20/94	Tritium	20 U	140	---	Unfiltered		LAS
RD-59C		Primary	08/16/94	Tritium	-30 U	130	260	Unfiltered		LAS
RD-59C		Primary	02/06/95	Tritium	-50 U	190	250	Unfiltered		LAS
RD-59C		Primary	08/08/95	Tritium	-200 U	190	280	Unfiltered		LAS
RD-59C		Primary	03/12/96	Tritium	-60 U	100	170	Unfiltered		LAS
RD-59C		Primary	08/21/96	Tritium	50 U	100	180	Unfiltered		LAS
RD-59C		Primary	02/16/97	Tritium	40 U	130	230	Unfiltered		LAS
RD-59C		Primary	08/22/97	Tritium	-70 U	110	210	Unfiltered		LAS
RD-59C		Primary	08/19/98	Tritium	43.3 U	120	207	Unfiltered		TN
RD-59C		Primary	02/16/99	Tritium	30.6 U	120	203	Unfiltered		TN
RD-59C		Primary	08/06/99	Tritium	-30.5 U	94	161	Unfiltered		TN
RD-59C		Primary	03/14/00	Tritium	7.68 U	110	181	Unfiltered		TN
RD-59C		Primary	08/10/00	Tritium	54.4 U	130	223	Unfiltered		TR
RD-59C		Primary	02/17/01	Tritium	30.6 U	130	212	Unfiltered		ES
RD-59C		Primary	11/12/01	Tritium	132 U	104	238	Unfiltered		DL
RD-59C		Primary	02/28/02	Tritium	0 U	59	350	Unfiltered		DL
RD-59C		Primary	08/08/02	Tritium	-43.8 U	120	204	Unfiltered		ES
RD-59C		Primary	01/31/03	Tritium	1.97 U	110	185	Unfiltered		ES
RD-59C		Primary	08/08/03	Tritium	50.7 U	110	190	Unfiltered		ES
RD-59C		Primary	11/05/04	Tritium	-14.9 U	95	162	Unfiltered		ES

See last page of table for notes and abbreviations.

TABLE E-II
RESULTS OF ANALYSES FOR TRITIUM IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-59C		Primary	09/07/05	Tritium	-15.4 U	100	172	Unfiltered		ES
RD-59C		Primary	02/22/06	Tritium	-34.2 U	99	169	Unfiltered		ES
RD-59C		Split	02/22/06	Tritium	40.4 U	150	329	Unfiltered		STL
RD-59C		Primary	08/23/06	Tritium	5.93 U	100	175	Unfiltered		ES
RD-59C		Primary	11/14/06	Tritium	-81.7 U	170	190	Unfiltered		ES
RD-59C		Primary	02/28/07	Tritium	-9.57 U	55	92.7	Unfiltered		ES
RD-59C		Primary	08/16/07	Tritium	45.7 U	50	81.9	Unfiltered		ES
RD-59C		Primary	05/20/08	Tritium	-34.6 U	93	160	Unfiltered		ES
RD-59C		Primary	08/14/08	Tritium	-32.8 U	93	159	Unfiltered		ES
RD-61		Primary	05/28/98	Tritium	-50.5 U	110	184	Unfiltered		TN
RD-63		Primary	05/19/94	Tritium	40 U	130	230	Unfiltered		LAS
RD-63		Primary	09/22/94	Tritium	80 U	150	---	Unfiltered		LAS
RD-63		Primary	11/09/94	Tritium	90 U	180	230	Unfiltered		LAS
RD-63		Primary	01/04/95	Tritium	350	210	---	Unfiltered		LAS
RD-63		Primary	02/02/99	Tritium	362	110	170	Unfiltered		TN
RD-63		Primary	02/16/00	Tritium	266	120	190	Unfiltered		TN
RD-63		Primary	02/23/01	Tritium	-26.9 U	130	216	Unfiltered		ES
RD-63		Primary	02/14/02	Tritium	41 U	120	384	Unfiltered		DL
RD-63		Primary	02/05/03	Tritium	152 U	120	194	Unfiltered		ES
RD-63		Primary	02/24/04	Tritium	344	120	181	Unfiltered		ES
RD-63		Primary	08/25/05	Tritium	69.5 U	180	301	Unfiltered		ES
RD-63		Primary	02/16/06	Tritium	350	110	165	Unfiltered		ES
RD-63		Primary	05/24/07	Tritium	51.4 U	49	81	Unfiltered		ES
RD-63		Split	05/24/07	Tritium	-9.7 U	69	112	Unfiltered		STL
RD-63		Primary	08/21/07	Tritium	-29.2 U	51	86.2	Unfiltered		ES
RD-63		Primary	02/06/08	Tritium	-31.7 U	86	147	Unfiltered		ES
RD-64		Primary	05/10/01	Tritium	181 U	130	203	Unfiltered		ES
RD-64		Primary	02/28/02	Tritium	204 U	58	350	Unfiltered		DL
RD-64	Z6	Primary	01/29/03	Tritium	21.3 U	110	182	Unfiltered		ES
RD-64	Z6	Primary	11/12/04	Tritium	17.7 U	130	230	Unfiltered		ES
RD-64	Z6	Primary	02/14/05	Tritium	24.5 U	150	256	Unfiltered		ES
RD-64	Z6	Primary	02/16/06	Tritium	161 U	95	165	Unfiltered		ES
RD-64	Z6	Primary	02/08/07	Tritium	118 J	53	83.6	Unfiltered		ES
RD-64	Z7	Primary	02/06/08	Tritium	111 U	92	149	Unfiltered		ES
RD-65		Primary	02/27/97	Tritium	380	160	210	Unfiltered		LAS
RD-65		Primary	02/07/98	Tritium	322	130	194	Unfiltered		TN
RD-66		Primary	09/30/97	Tritium	30 U	100	180	Unfiltered		LAS
RD-68A		Primary	07/09/97	Tritium	20 U	110	210	Unfiltered		LAS
RD-68A		Primary	02/28/07	Tritium	-8.88 U	55	92.4	Unfiltered		ES
RD-68B		Primary	07/10/97	Tritium	-50 U	100	210	Unfiltered		LAS
RD-68B		Primary	02/28/07	Tritium	-31.5 U	56	93.7	Unfiltered		ES
RD-69		Primary	05/28/98	Tritium	68.6 U	110	183	Unfiltered		TN
RD-71		Primary	09/30/97	Tritium	110 U	110	180	Unfiltered		LAS
RD-74		Primary	05/13/99	Tritium	30.2 U	110	184	Unfiltered		TN

See last page of table for notes and abbreviations.

TABLE E-II
RESULTS OF ANALYSES FOR TRITIUM IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-75		Primary	08/30/05	Tritium	-23.3 U	150	268	Unfiltered		ES
RD-85		Duplicate	08/13/04	Tritium	102 U	100	170	Unfiltered		ES
RD-85		Split	08/13/04	Tritium	80 U	220	370	Unfiltered		PA
RD-85		Primary	08/13/04	Tritium	-32 U	99	170	Unfiltered		ES
RD-85		Primary	08/26/04	Tritium	83.9 U	110	188	Unfiltered		ES
RD-85		Primary	02/23/05	Tritium	-11.2 U	110	191	Unfiltered		ES
RD-86		Primary	08/13/04	Tritium	62.8 U	100	172	Unfiltered		ES
RD-86		Primary	08/26/04	Tritium	3.91 U	110	189	Unfiltered		ES
RD-86		Primary	02/23/05	Tritium	-93.8 U	110	192	Unfiltered		ES
RD-87		Duplicate	08/18/04	Tritium	15400	1600	173	Unfiltered		ES
RD-87		Primary	08/18/04	Tritium	14900	1500	167	Unfiltered		ES
RD-87		Primary	08/26/04	Tritium	14800	1500	182	Unfiltered		ES
RD-87		Primary	08/24/05	Tritium	10200	1100	263	Unfiltered		ES
RD-87		Primary	02/22/07	Tritium	12800	1300	90	Unfiltered		ES
RD-88		Primary	08/20/04	Tritium	82000	8200	178	Unfiltered		ES
RD-88		Primary	08/26/04	Tritium	86600	8700	198	Unfiltered		ES
RD-88		Primary	08/25/05	Tritium	57600	6000	562	Unfiltered		ES
RD-88		Primary	02/22/07	Tritium	57200	5700	144	Unfiltered		ES
RD-89		Primary	05/24/05	Tritium	75.8 U	96	158	Unfiltered		ES
RD-89		Duplicate	05/24/05	Tritium	95.9 U	97	159	Unfiltered		ES
RD-89		Primary	06/01/05	Tritium	55.2 U	100	166	Unfiltered		ES
RD-90		Primary	03/25/04	Tritium	75500	7700	917	Unfiltered		ES
RD-90		Primary	04/15/04	Tritium	83300	8400	233	Unfiltered		ES
RD-90	42'	Primary	08/12/04	Tritium	89600	9000	188	Unfiltered		ES
RD-90	80'	Primary	08/12/04	Tritium	90900	9100	187	Unfiltered		ES
RD-90	115'	Primary	08/13/04	Tritium	83000	8300	182	Unfiltered		ES
RD-90		Primary	08/25/05	Tritium	71800	7500	631	Unfiltered		ES
RD-90		Primary	02/23/07	Tritium	63500	6400	154	Unfiltered		ES
RD-91		Primary	03/25/04	Tritium	52.8 U	110	184	Unfiltered		ES
RD-91		Primary	04/15/04	Tritium	-62.8 U	130	216	Unfiltered		ES
RD-91		Primary	02/22/07	Tritium	-71 U	53	90.6	Unfiltered		ES
RD-92		Primary	03/25/04	Tritium	-10.5 U	110	182	Unfiltered		ES
RD-92		Primary	04/15/04	Tritium	-62.1 U	120	213	Unfiltered		ES
RD-93		Primary	05/23/05	Tritium	27800	3000	478	Unfiltered		ES
RD-93		Duplicate	05/23/05	Tritium	26000	2800	459	Unfiltered		ES
RD-93		Primary	06/01/05	Tritium	34900	3600	270	Unfiltered		ES
RD-93		Primary	08/24/05	Tritium	17300	1800	264	Unfiltered		ES
RD-93		Primary	02/22/07	Tritium	13700	1400	89.7	Unfiltered		ES
RD-94		Primary	05/23/05	Tritium	12200	1300	318	Unfiltered		ES
RD-94		Primary	06/01/05	Tritium	12400	1300	167	Unfiltered		ES
RD-94		Primary	08/25/05	Tritium	11900	1300	299	Unfiltered		ES
RD-94		Primary	02/22/07	Tritium	13400	1400	90.2	Unfiltered		ES
RD-95		Primary	05/23/05	Tritium	117000	13000	1040	Unfiltered		ES
RD-95		Primary	06/01/05	Tritium	112000	11000	489	Unfiltered		ES

See last page of table for notes and abbreviations.

TABLE E-II
RESULTS OF ANALYSES FOR TRITIUM IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-95		Primary	08/24/05	Tritium	103000	11000	465	Unfiltered		ES
RD-95		Primary	02/22/07	Tritium	91500	9200	185	Unfiltered		ES
RD-96		Primary	05/09/06	Tritium	76.2 U	140	228	Unfiltered		ES
RD-96		Primary	02/22/07	Tritium	-53.8 U	52	88.6	Unfiltered		ES
RD-97		Primary	05/09/06	Tritium	-33.6 U	130	228	Unfiltered		ES
RD-97		Primary	02/22/07	Tritium	-55 U	53	90.6	Unfiltered		ES
RD-98		Primary	06/26/08	Tritium	2.71 U	92	154	Unfiltered		ES
RD-98		Primary	09/11/08	Tritium	-145 U	97	171	Unfiltered		ES
RD-98		Primary	11/14/08	Tritium	-10.5 U	110	186	Unfiltered		ES
WS-04A		Primary	09/09/89	Tritium	-155 U	125	---	Unfiltered		UST
WS-04A		Split	09/09/89	Tritium	1000 U	---	1000	Unfiltered		TMA
WS-04A		Primary	12/06/90	Tritium	-67.2 U	195	500	Unfiltered		IT
WS-05		Primary	09/09/89	Tritium	-216 U	119	---	Unfiltered		UST
WS-05		Split	09/09/89	Tritium	1000 U	---	1000	Unfiltered		TMA
WS-05		Primary	05/06/94	Tritium	-40 U	110	230	Unfiltered		LAS
WS-06		Primary	09/11/89	Tritium	-128 U	125	---	Unfiltered		UST
WS-06		Split	09/11/89	Tritium	1000 U	---	1000	Unfiltered		TMA
WS-07		Primary	12/06/90	Tritium	187 U	235	500	Unfiltered		IT
WS-07		Duplicate	12/06/90	Tritium	78 U	229	500	Unfiltered		IT
WS-07		Primary	03/08/91	Tritium	-70.2 U	178	500	Unfiltered		IT
WS-07		Primary	12/07/91	Tritium	-48.1 U	209	500	Unfiltered		IT
WS-07		Split	12/07/91	Tritium	500 U	---	500	Unfiltered		CEP
WS-07		Primary	03/25/92	Tritium	500 U	---	500	Unfiltered		CEP
WS-08		Primary	09/09/89	Tritium	-258 U	138	---	Unfiltered		UST
WS-08		Split	09/09/89	Tritium	1000 U	---	1000	Unfiltered		TMA
WS-09A		Primary	09/12/89	Tritium	-53.4 U	127	---	Unfiltered		UST
WS-09A		Split	09/12/89	Tritium	1000 U	---	1000	Unfiltered		TMA
Private Off-site Wells										
OS-01		Primary	09/13/89	Tritium	-227 U	121	---	Unfiltered		UST
OS-01		Split	09/13/89	Tritium	1000 U	---	1000	Unfiltered		TMA
OS-01		Primary	12/11/90	Tritium	-17.5 U	207	500	Unfiltered		IT
OS-01		Primary	03/09/91	Tritium	-109 U	185	500	Unfiltered		IT
OS-01		Primary	09/09/91	Tritium	63.8 U	201	500	Unfiltered		IT
OS-01		Primary	12/09/91	Tritium	-49 U	209	500	Unfiltered		IT
OS-01		Primary	06/09/92	Tritium	-129 U	489	500	Unfiltered		CEP
OS-01		Primary	09/15/92	Tritium	411 U	500	500	Unfiltered		CEP
OS-01		Primary	12/17/92	Tritium	187 U	498	500	Unfiltered		CEP
OS-01		Primary	06/22/93	Tritium	-17 U	446	500	Unfiltered		CEP
OS-01		Primary	08/23/93	Tritium	-436 U	500	500	Unfiltered		CEP
OS-01		Primary	11/08/93	Tritium	60 U	120	210	Unfiltered		LAS
OS-01		Primary	02/23/94	Tritium	-70 U	130	270	Unfiltered		LAS
OS-01		Primary	08/15/94	Tritium	-70 U	120	250	Unfiltered		LAS
OS-01		Primary	02/06/95	Tritium	10 U	200	260	Unfiltered		LAS
OS-01		Primary	08/08/95	Tritium	-110 U	200	280	Unfiltered		LAS

See last page of table for notes and abbreviations.

TABLE E-II
RESULTS OF ANALYSES FOR TRITIUM IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Private Off-site Wells										
OS-01		Primary	08/21/96	Tritium	-20 U	110	220	Unfiltered		LAS
OS-02		Primary	09/13/89	Tritium	-90.8 U	128	---	Unfiltered		UST
OS-02		Split	09/13/89	Tritium	1000 U	---	1000	Unfiltered		TMA
OS-02		Primary	12/11/90	Tritium	-39.7 U	206	500	Unfiltered		IT
OS-02		Primary	03/08/91	Tritium	86.5 U	186	500	Unfiltered		IT
OS-02		Duplicate	03/08/91	Tritium	-80.4 U	186	500	Unfiltered		IT
OS-02		Primary	09/09/91	Tritium	0 U	198	500	Unfiltered		IT
OS-02		Primary	12/09/91	Tritium	-61 U	208	500	Unfiltered		IT
OS-02		Primary	06/09/92	Tritium	348 U	493	500	Unfiltered		CEP
OS-02		Primary	09/15/92	Tritium	299 U	500	500	Unfiltered		CEP
OS-02		Primary	12/17/92	Tritium	-607 U	520	500	Unfiltered		CEP
OS-02		Primary	06/22/93	Tritium	74 U	500	500	Unfiltered		CEP
OS-02		Primary	08/23/93	Tritium	51 U	426	500	Unfiltered		CEP
OS-02		Primary	11/08/93	Tritium	20 U	120	210	Unfiltered		LAS
OS-02		Primary	02/23/94	Tritium	-20 U	140	270	Unfiltered		LAS
OS-02		Primary	08/15/94	Tritium	10 U	140	260	Unfiltered		LAS
OS-02		Primary	02/06/95	Tritium	-20 U	200	250	Unfiltered		LAS
OS-02		Primary	08/08/95	Tritium	-50 U	200	270	Unfiltered		LAS
OS-02		Primary	08/21/96	Tritium	70 U	120	210	Unfiltered		LAS
OS-02		Primary	08/22/97	Tritium	-40 U	110	210	Unfiltered		LAS
OS-02		Primary	08/19/98	Tritium	-83.2 U	120	216	Unfiltered		TN
OS-02		Primary	02/28/07	Tritium	-6.69 U	56	92.8	Unfiltered		ES
OS-03		Primary	09/13/89	Tritium	7.49 U	132	---	Unfiltered		UST
OS-03		Split	09/13/89	Tritium	1000 U	---	1000	Unfiltered		TMA
OS-03		Primary	12/11/90	Tritium	-35.1 U	207	500	Unfiltered		IT
OS-03		Primary	03/08/91	Tritium	44.4 U	192	500	Unfiltered		IT
OS-03		Primary	12/09/91	Tritium	-9.24 U	211	500	Unfiltered		IT
OS-03		Primary	06/09/92	Tritium	-223 U	485	500	Unfiltered		CEP
OS-03		Primary	06/22/93	Tritium	104 U	500	500	Unfiltered		CEP
OS-03		Primary	08/23/93	Tritium	-120 U	421	500	Unfiltered		CEP
OS-03		Primary	11/08/93	Tritium	80 U	140	240	Unfiltered		LAS
OS-03		Primary	02/23/94	Tritium	0 U	140	270	Unfiltered		LAS
OS-03		Primary	08/15/94	Tritium	-60 U	130	260	Unfiltered		LAS
OS-03		Primary	02/06/95	Tritium	-140 U	190	260	Unfiltered		LAS
OS-03		Primary	08/08/95	Tritium	150 U	230	280	Unfiltered		LAS
OS-03		Primary	08/21/96	Tritium	60 U	130	220	Unfiltered		LAS
OS-03		Primary	08/22/97	Tritium	-73 U	99	200	Unfiltered		LAS
OS-03		Primary	08/19/98	Tritium	63.1 U	130	213	Unfiltered		TN
OS-04		Primary	09/13/89	Tritium	71.2 U	135	---	Unfiltered		UST
OS-04		Split	09/13/89	Tritium	1000 U	---	1000	Unfiltered		TMA
OS-04		Primary	12/11/90	Tritium	-26.8 U	208	500	Unfiltered		IT
OS-04		Primary	06/09/92	Tritium	169 U	488	500	Unfiltered		CEP
OS-04		Primary	06/22/93	Tritium	-385 U	500	500	Unfiltered		CEP
OS-04		Primary	08/23/93	Tritium	-477 U	500	500	Unfiltered		CEP
OS-04		Primary	02/23/94	Tritium	-70 U	130	270	Unfiltered		LAS
OS-04		Primary	08/15/94	Tritium	-80 U	120	260	Unfiltered		LAS

See last page of table for notes and abbreviations.

TABLE E-II
RESULTS OF ANALYSES FOR TRITIUM IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Private Off-site Wells										
OS-04		Primary	02/06/95	Tritium	-20 U	200	250	Unfiltered		LAS
OS-04		Primary	08/08/95	Tritium	-90 U	210	290	Unfiltered		LAS
OS-04		Primary	08/21/96	Tritium	110 U	130	220	Unfiltered		LAS
OS-04		Primary	08/22/97	Tritium	0 U	120	220	Unfiltered		LAS
OS-04		Primary	08/19/98	Tritium	-2.28 U	120	208	Unfiltered		TN
OS-04		Primary	02/28/07	Tritium	0 U	55	92.2	Unfiltered		ES
OS-05		Primary	09/13/89	Tritium	-52.4 U	129	---	Unfiltered		UST
OS-05		Split	09/13/89	Tritium	1000 U	---	1000	Unfiltered		TMA
OS-05		Primary	12/11/90	Tritium	-80.3 U	205	500	Unfiltered		IT
OS-05		Primary	03/08/91	Tritium	-162 U	182	500	Unfiltered		IT
OS-05		Primary	09/09/91	Tritium	129 U	204	500	Unfiltered		IT
OS-05		Primary	12/09/91	Tritium	61.9 U	214	500	Unfiltered		IT
OS-05		Primary	06/09/92	Tritium	91 U	492	500	Unfiltered		CEP
OS-05		Primary	09/15/92	Tritium	620	509	500	Unfiltered		CEP
OS-05		Split	09/15/92	Tritium	-220 U	270	500	Unfiltered		BL
OS-05		Primary	12/17/92	Tritium	20 U	498	500	Unfiltered		CEP
OS-05		Primary	06/22/93	Tritium	-628 U	500	500	Unfiltered		CEP
OS-05		Primary	08/23/93	Tritium	-89 U	434	500	Unfiltered		CEP
OS-05		Primary	11/08/93	Tritium	20 U	120	220	Unfiltered		LAS
OS-05		Primary	02/23/94	Tritium	50 U	150	270	Unfiltered		LAS
OS-05		Primary	08/08/95	Tritium	60 U	210	270	Unfiltered		LAS
OS-05		Primary	08/21/96	Tritium	-20 U	110	220	Unfiltered		LAS
OS-05		Primary	08/22/97	Tritium	-40 U	110	210	Unfiltered		LAS
OS-05		Primary	08/19/98	Tritium	-39.4 U	120	211	Unfiltered		TN
OS-05A		Primary	02/06/95	Tritium	-60 U	190	260	Unfiltered		LAS
OS-05A		Primary	08/08/95	Tritium	330	250	290	Unfiltered		LAS
OS-08		Primary	09/13/89	Tritium	101 U	140	---	Unfiltered		UST
OS-08		Split	09/13/89	Tritium	1000 U	---	1000	Unfiltered		TMA
OS-08		Primary	06/09/92	Tritium	-172 U	490	500	Unfiltered		CEP
OS-08		Primary	06/22/93	Tritium	-332 U	500	500	Unfiltered		CEP
OS-08		Primary	08/15/94	Tritium	-10 U	140	260	Unfiltered		LAS
OS-09		Primary	02/28/07	Tritium	-65.1 U	55	93.4	Unfiltered		ES
OS-09R		Primary	01/26/04	Tritium	-32.5 U	120	204	Unfiltered		ES
OS-10		Primary	09/13/89	Tritium	-121 U	126	---	Unfiltered		UST
OS-10		Split	09/13/89	Tritium	1000 U	---	1000	Unfiltered		TMA
OS-10		Primary	12/09/91	Tritium	-120 U	205	500	Unfiltered		IT
OS-10		Primary	08/15/94	Tritium	10 U	140	260	Unfiltered		LAS
OS-15		Primary	12/10/91	Tritium	127 U	224	500	Unfiltered		IT
OS-16		Primary	09/14/89	Tritium	-100 U	127	---	Unfiltered		UST
OS-16		Split	09/14/89	Tritium	1000 U	---	1000	Unfiltered		TMA
OS-16		Primary	09/09/91	Tritium	-93.3 U	193	500	Unfiltered		IT
OS-16		Primary	12/10/91	Tritium	148 U	226	500	Unfiltered		IT
OS-16		Primary	03/12/92	Tritium	500 U	---	500	Unfiltered		CEP
OS-17		Primary	09/13/89	Tritium	37.5 U	132	---	Unfiltered		UST

See last page of table for notes and abbreviations.

TABLE E-II
RESULTS OF ANALYSES FOR TRITIUM IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Private Off-site Wells										
OS-17		Split	09/13/89	Tritium	1000 U	---	1000	Unfiltered		TMA
OS-17		Primary	09/12/91	Tritium	306 U	230	500	Unfiltered		IT
OS-17		Primary	12/10/91	Tritium	31.7 U	219	500	Unfiltered		IT
OS-17		Primary	03/12/92	Tritium	500 U	---	500	Unfiltered		CEP
OS-21		Primary	09/09/89	Tritium	-160 U	121	---	Unfiltered		UST
OS-21		Split	09/09/89	Tritium	1000 U	---	1000	Unfiltered		TMA
OS-21		Primary	03/09/91	Tritium	-38.8 U	188	500	Unfiltered		IT
OS-21		Primary	12/10/91	Tritium	-165 U	209	500	Unfiltered		IT
OS-21		Primary	03/12/92	Tritium	500 U	---	500	Unfiltered		CEP
OS-21		Primary	03/19/93	Tritium	119 U	490	500	Unfiltered		CEP
OS-27		Primary	05/15/97	Tritium	30 U	100	190	Unfiltered		LAS
Municipal Water Supply										
Calleguas		Primary	12/14/90	Tritium	117 U	230	500	Unfiltered		IT
Calleguas		Primary	03/12/92	Tritium	500 U	---	500	Unfiltered		CEP
Facility Water		Primary	08/10/04	Tritium	79.7 U	100	167	Unfiltered		ES
Facility Fire Hydrant										
Hydrant Water		Primary	03/16/04	Tritium	-64.8 U	110	183	Unfiltered		ES
Effluent										
RD-63 Effluent		Primary	10/06/94	Tritium	60 U	150	---	Unfiltered	Pilot extraction effluent.	LAS

TABLE E-II
RESULTS OF ANALYSES FOR TRITIUM IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

NOTES AND ABBREVIATIONS

BL = Barringer Laboratories, Inc., Golden, Colorado
CEP = Controls for Environmental Pollution, Santa Fe, New Mexico
DL = Davi Laboratories, Pinole, California
ES = Eberline Services, (formerly Thermo Retec), Richmond, California
IT = International Technologies, Inc., (formerly United States Testing), Richland, Washington
LAS = LAS Laboratories, (formerly Lockheed Martin), Las Vegas, Nevada
PA = Paragon Analytics, Fort Collins, Colorado
STL = Severn Trent Laboratories, (formerly International Technologies, Inc.), Richland, Washington
TEL = Teledyne Isotopes, Westwood, New Jersey
TMA = Thermoanalytical Inc. (TMA/NORCAL), Richmond, California
TN = Thermo NUtech, (formerly Thermoanalytical Inc. (TMA/NORCAL)), Richmond, California
TR = Thermo Retec, (formerly Thermo NUtech), Richmond, California
UST = United States Testing, Richland, Washington

MDA	=	Minimum detectable activity.
Z	=	FLUTe sample port number.
---	=	Data do not exist.
J	=	Result is less than contract-required MDA and greater than or equal to the MDA.
S	=	Suspect result.
U	=	Not detected above the MDA; numerical value is the activity for the radionuclide.
pCi/L	=	picoCuries per liter.

NOTES:
Samples analyzed for tritium by EPA Method 906.0.

Any activity detected is reported by the laboratory, though the reported activity may be less than the overall laboratory error. Analytical results that are less than the instrument background count are shown as negative values.

As discussed in Appendix D, project specific MDAs were not always attained due in part to matrix conditions (e.g., dissolved and suspended solids) and limitations in the prescribed analytical methods (e.g., sample volumes, counting times).

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Piezometers										
PZ-101		Primary	06/02/05	Cesium-134	1.56 U	---	1.56	Filtered		ES
PZ-101		Primary	06/02/05	Cesium-137	1.25 U	---	1.25	Filtered		ES
PZ-101		Primary	06/02/05	Cobalt-57	0.546 U	---	0.546	Filtered		ES
PZ-101		Primary	06/02/05	Cobalt-60	1.36 U	---	1.36	Filtered		ES
PZ-101		Primary	06/02/05	Europium-152	3.1 U	---	3.1	Filtered		ES
PZ-101		Primary	06/02/05	Europium-154	4.09 U	---	4.09	Filtered		ES
PZ-101		Primary	06/02/05	Manganese-54	1.28 U	---	1.28	Filtered		ES
PZ-101		Primary	06/02/05	Sodium-22	1.39 U	---	1.39	Filtered		ES
PZ-107		Primary	06/02/05	Cesium-134	1.64 U	---	1.64	Filtered		ES
PZ-107		Primary	06/02/05	Cesium-137	1.54 U	---	1.54	Filtered		ES
PZ-107		Primary	06/02/05	Cobalt-57	0.988 U	---	0.988	Filtered		ES
PZ-107		Primary	06/02/05	Cobalt-60	1.64 U	---	1.64	Filtered		ES
PZ-107		Primary	06/02/05	Europium-152	4.05 U	---	4.05	Filtered		ES
PZ-107		Primary	06/02/05	Europium-154	4.81 U	---	4.81	Filtered		ES
PZ-107		Primary	06/02/05	Manganese-54	1.48 U	---	1.48	Filtered		ES
PZ-107		Primary	06/02/05	Sodium-22	1.64 U	---	1.64	Filtered		ES
PZ-111		Primary	06/02/05	Cesium-134	1.56 U	---	1.56	Filtered		ES
PZ-111		Primary	06/02/05	Cesium-137	1.25 U	---	1.25	Filtered		ES
PZ-111		Primary	06/02/05	Cobalt-57	0.528 U	---	0.528	Filtered		ES
PZ-111		Primary	06/02/05	Cobalt-60	1.42 U	---	1.42	Filtered		ES
PZ-111		Primary	06/02/05	Europium-152	3.21 U	---	3.21	Filtered		ES
PZ-111		Primary	06/02/05	Europium-154	4.12 U	---	4.12	Filtered		ES
PZ-111		Primary	06/02/05	Manganese-54	1.23 U	---	1.23	Filtered		ES
PZ-111		Primary	06/02/05	Sodium-22	1.4 U	---	1.4	Filtered		ES
PZ-116		Primary	06/02/05	Cesium-134	1.65 U	---	1.65	Filtered		ES
PZ-116		Primary	06/02/05	Cesium-137	1.28 U	---	1.28	Filtered		ES
PZ-116		Primary	06/02/05	Cobalt-57	0.569 U	---	0.569	Filtered		ES
PZ-116		Primary	06/02/05	Cobalt-60	1.47 U	---	1.47	Filtered		ES
PZ-116		Primary	06/02/05	Europium-152	3.34 U	---	3.34	Filtered		ES
PZ-116		Primary	06/02/05	Europium-154	4.11 U	---	4.11	Filtered		ES
PZ-116		Primary	06/02/05	Manganese-54	1.26 U	---	1.26	Filtered		ES
PZ-116		Primary	06/02/05	Sodium-22	1.4 U	---	1.4	Filtered		ES
Shallow Wells										
ES-31		Primary	12/10/90	Cesium-137	-5.61 U	5.7	10	Filtered		IT
ES-31		Primary	03/04/91	Cesium-137	-1.01 U	4.78	10	Filtered		IT
ES-31		Duplicate	03/04/91	Cesium-137	-1.69 U	5.35	10	Filtered		IT
ES-31		Primary	06/03/91	Cesium-137	2.08 U	---	10	Filtered		IT
ES-31		Primary	06/06/91	Cesium-137	2.08 U	4.3	10	Filtered		IT
ES-31		Primary	12/07/91	Cesium-137	2.84 U	4.49	10	Filtered		IT
ES-31		Primary	03/05/92	Cesium-137	0 U	---	---	Filtered		CEP
ES-31		Primary	02/06/99	Cesium-134	16.6 U	---	16.6	Filtered		TN
ES-31		Primary	02/06/99	Cesium-137	13.2 U	---	13.2	Filtered		TN
ES-31		Primary	02/06/99	Cobalt-57	9.08 U	---	9.08	Filtered		TN
ES-31		Primary	02/06/99	Cobalt-60	14.6 U	---	14.6	Filtered		TN
ES-31		Primary	02/06/00	Cesium-134	15.1 U	---	15.1	Filtered		TR

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Shallow Wells										
ES-31		Primary	02/06/00	Cesium-137	13.9 U	---	13.9	Filtered		TR
ES-31		Primary	02/06/00	Cobalt-57	8.52 U	---	8.52	Filtered		TR
ES-31		Primary	02/06/00	Cobalt-60	16.7 U	---	16.7	Filtered		TR
ES-31		Primary	02/15/01	Cesium-134	14.2 U	---	14.2	Filtered		ES
ES-31		Primary	02/15/01	Cesium-137	11.7 U	---	11.7	Filtered		ES
ES-31		Primary	02/15/01	Cobalt-57	7.93 U	---	7.93	Filtered		ES
ES-31		Primary	02/15/01	Cobalt-60	11.1 U	---	11.1	Filtered		ES
ES-31		Primary	02/18/02	Cesium-134	3 U	3	3	Filtered		DL
ES-31		Primary	02/18/02	Cesium-137	3 U	3	3	Filtered		DL
ES-31		Primary	02/18/02	Cobalt-57	3 U	3	3	Filtered		DL
ES-31		Primary	02/18/02	Cobalt-60	3 U	3	3	Filtered		DL
ES-31		Primary	02/19/03	Cesium-134	2.16 U	---	2.16	Filtered		ES
ES-31		Primary	02/19/03	Cesium-137	1.94 U	---	1.94	Filtered		ES
ES-31		Primary	02/19/03	Cobalt-57	1.35 U	---	1.35	Filtered		ES
ES-31		Primary	02/19/03	Cobalt-60	1.96 U	---	1.96	Filtered		ES
ES-31		Primary	03/10/05	Cesium-134	1.66 U	---	1.66	Filtered		ES
ES-31		Primary	03/10/05	Cesium-137	1.29 U	---	1.29	Filtered		ES
ES-31		Primary	03/10/05	Cobalt-57	0.552 U	---	0.552	Filtered		ES
ES-31		Primary	03/10/05	Cobalt-60	1.51 U	---	1.51	Filtered		ES
ES-31		Primary	03/10/05	Europium-152	3.13 U	---	3.13	Filtered		ES
ES-31		Primary	03/10/05	Europium-154	4.39 U	---	4.39	Filtered		ES
ES-31		Primary	03/10/05	Manganese-54	1.39 U	---	1.39	Filtered		ES
ES-31		Primary	03/10/05	Sodium-22	1.46 U	---	1.46	Filtered		ES
ES-31		Primary	02/21/06	Cesium-134	1.19 U	---	1.19	Filtered		ES
ES-31		Primary	02/21/06	Cesium-137	1.15 U	---	1.15	Filtered		ES
ES-31		Primary	02/21/06	Cobalt-57	0.743 U	---	0.743	Filtered		ES
ES-31		Primary	02/21/06	Cobalt-60	1.15 U	---	1.15	Filtered		ES
ES-31		Primary	02/21/06	Europium-152	2.75 U	---	2.75	Filtered		ES
ES-31		Primary	02/21/06	Europium-154	3 U	---	3	Filtered		ES
ES-31		Primary	02/21/06	Manganese-54	1.14 U	---	1.14	Filtered		ES
ES-31		Primary	02/21/06	Sodium-22	1.04 U	---	1.04	Filtered		ES
ES-31		Primary	02/28/07	Cesium-134	1.6 U	---	1.6	Filtered		ES
ES-31		Primary	02/28/07	Cesium-137	1 U	---	1	Filtered		ES
ES-31		Primary	02/28/07	Cobalt-57	0.605 U	---	0.605	Filtered		ES
ES-31		Primary	02/28/07	Cobalt-60	1.04 U	---	1.04	Filtered		ES
ES-31		Primary	02/28/07	Europium-152	2.89 U	---	2.89	Filtered		ES
ES-31		Primary	02/28/07	Europium-154	3.37 U	---	3.37	Filtered		ES
ES-31		Primary	02/28/07	Manganese-54	0.939 U	---	0.939	Filtered		ES
ES-31		Primary	02/28/07	Sodium-22	1.15 U	---	1.15	Filtered		ES
ES-31		Primary	02/01/08	Cesium-134	1.58 U	---	1.58	Filtered		ES
ES-31		Primary	02/01/08	Cesium-137	1.23 U	---	1.23	Filtered		ES
ES-31		Primary	02/01/08	Cobalt-57	0.793 U	---	0.793	Filtered		ES
ES-31		Primary	02/01/08	Cobalt-60	1.26 U	---	1.26	Filtered		ES
ES-31		Primary	02/01/08	Europium-152	3.19 U	---	3.19	Filtered		ES
ES-31		Primary	02/01/08	Europium-154	3.77 U	---	3.77	Filtered		ES
ES-31		Primary	02/01/08	Manganese-54	1.16 U	---	1.16	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Shallow Wells										
ES-31		Primary	02/01/08	Sodium-22	1.36 U	---	1.36	Filtered		ES
HAR-14		Primary	09/12/89	Cesium-137	1.95 U	4.39	---	Filtered		UST
HAR-14		Primary	09/12/89	Cesium-137	1.12 U	5.04	---	Unfiltered		UST
HAR-14		Split	09/12/89	Cesium-137	-19 U	---	---	Filtered		TMA
HAR-14		Split	09/12/89	Cesium-137	-6 U	---	---	Unfiltered		TMA
HAR-14		Primary	09/12/89	Cobalt-60	1.99 U	4.62	---	Filtered		UST
HAR-14		Primary	09/12/89	Cobalt-60	0.85 U	4.32	---	Unfiltered		UST
RS-05		Primary	10/31/89	Cesium-137	-2.54 U	5.37	---	Filtered		UST
RS-05		Primary	10/31/89	Cesium-137	-2.73 U	4.72	---	Unfiltered		UST
RS-11		Primary	12/06/90	Cesium-137	-1.14 U	5.41	10	Filtered		IT
RS-11		Primary	03/04/91	Cesium-137	0.134 U	4.36	10	Filtered		IT
RS-11		Primary	12/07/91	Cesium-137	-3.15 U	4.04	10	Filtered		IT
RS-11		Primary	03/05/92	Cesium-137	0 U	---	---	Filtered		CEP
RS-11		Primary	02/06/99	Cesium-134	14 U	---	14	Filtered		TN
RS-11		Primary	02/06/99	Cesium-137	11.2 U	---	11.2	Filtered		TN
RS-11		Primary	02/06/99	Cobalt-57	7.88 U	---	7.88	Filtered		TN
RS-11		Primary	02/06/99	Cobalt-60	14.2 U	---	14.2	Filtered		TN
RS-11		Primary	02/15/00	Cesium-134	17.4 U	---	17.4	Filtered		TR
RS-11		Primary	02/15/00	Cesium-137	14.8 U	---	14.8	Filtered		TR
RS-11		Primary	02/15/00	Cobalt-57	7.31 U	---	7.31	Filtered		TR
RS-11		Primary	02/15/00	Cobalt-60	12.9 U	---	12.9	Filtered		TR
RS-11		Primary	02/06/01	Cesium-134	19.6 U	---	19.6	Filtered		ES
RS-11		Primary	02/06/01	Cesium-137	14.6 U	---	14.6	Filtered		ES
RS-11		Primary	02/06/01	Cobalt-57	8.09 U	---	8.09	Filtered		ES
RS-11		Primary	02/06/01	Cobalt-60	14.8 U	---	14.8	Filtered		ES
RS-11		Primary	05/01/03	Cesium-134	1.58 U	---	1.58	Filtered		ES
RS-11		Primary	05/01/03	Cesium-137	1.17 U	---	1.17	Filtered		ES
RS-11		Primary	05/01/03	Cobalt-57	0.84 U	---	0.84	Filtered		ES
RS-11		Primary	05/01/03	Cobalt-60	1.48 U	---	1.48	Filtered		ES
RS-11		Primary	02/17/05	Cesium-134	1.64 U	---	1.64	Filtered		ES
RS-11		Primary	02/17/05	Cesium-137	1.32 U	---	1.32	Filtered		ES
RS-11		Primary	02/17/05	Cobalt-57	0.563 U	---	0.563	Filtered		ES
RS-11		Primary	02/17/05	Cobalt-60	1.55 U	---	1.55	Filtered		ES
RS-11		Primary	02/17/05	Europium-152	3.33 U	---	3.33	Filtered		ES
RS-11		Primary	02/17/05	Europium-154	4.36 U	---	4.36	Filtered		ES
RS-11		Primary	02/17/05	Manganese-54	1.36 U	---	1.36	Filtered		ES
RS-11		Primary	02/17/05	Sodium-22	1.48 U	---	1.48	Filtered		ES
RS-11		Primary	02/21/06	Cesium-134	0.941 U	---	0.941	Filtered		ES
RS-11		Primary	02/21/06	Cesium-137	0.844 U	---	0.844	Filtered		ES
RS-11		Primary	02/21/06	Cobalt-57	0.622 U	---	0.622	Filtered		ES
RS-11		Primary	02/21/06	Cobalt-60	0.839 U	---	0.839	Filtered		ES
RS-11		Primary	02/21/06	Europium-152	2.13 U	---	2.13	Filtered		ES
RS-11		Primary	02/21/06	Europium-154	2.44 U	---	2.44	Filtered		ES
RS-11		Primary	02/21/06	Manganese-54	0.802 U	---	0.802	Filtered		ES
RS-11		Primary	02/21/06	Sodium-22	0.844 U	---	0.844	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Shallow Wells										
RS-11		Primary	02/28/07	Cesium-134	1.05 U	---	1.05	Filtered		ES
RS-11		Primary	02/28/07	Cesium-137	0.949 U	---	0.949	Filtered		ES
RS-11		Primary	02/28/07	Cobalt-57	0.627 U	---	0.627	Filtered		ES
RS-11		Primary	02/28/07	Cobalt-60	0.936 U	---	0.936	Filtered		ES
RS-11		Primary	02/28/07	Europium-152	2.57 U	---	2.57	Filtered		ES
RS-11		Primary	02/28/07	Europium-154	2.88 U	---	2.88	Filtered		ES
RS-11		Primary	02/28/07	Manganese-54	0.857 U	---	0.857	Filtered		ES
RS-11		Primary	02/28/07	Sodium-22	0.981 U	---	0.981	Filtered		ES
RS-11		Primary	05/02/08	Cesium-134	1.37 U	---	1.37	Filtered		ES
RS-11		Primary	05/02/08	Cesium-137	1.1 U	---	1.1	Filtered		ES
RS-11		Primary	05/02/08	Cobalt-57	0.828 U	---	0.828	Filtered		ES
RS-11		Primary	05/02/08	Cobalt-60	1.3 U	---	1.3	Filtered		ES
RS-11		Primary	05/02/08	Europium-152	3.18 U	---	3.18	Filtered		ES
RS-11		Primary	05/02/08	Europium-154	3.63 U	---	3.63	Filtered		ES
RS-11		Primary	05/02/08	Manganese-54	1.25 U	---	1.25	Filtered		ES
RS-11		Primary	05/02/08	Sodium-22	1.24 U	---	1.24	Filtered		ES
RS-16		Primary	03/09/92	Cesium-137	0 U	---	---	Filtered		CEP
RS-16		Primary	02/01/08	Cesium-134	1.01 U	---	1.01	Filtered		ES
RS-16		Primary	02/01/08	Cesium-137	0.758 U	---	0.758	Filtered		ES
RS-16		Primary	02/01/08	Cobalt-57	0.412 U	---	0.412	Filtered		ES
RS-16		Primary	02/01/08	Cobalt-60	1.3 U	---	1.3	Filtered		ES
RS-16		Primary	02/01/08	Europium-152	1.99 U	---	1.99	Filtered		ES
RS-16		Primary	02/01/08	Europium-154	2.37 U	---	2.37	Filtered		ES
RS-16		Primary	02/01/08	Manganese-54	0.738 U	---	0.738	Filtered		ES
RS-16		Primary	02/01/08	Sodium-22	0.806 U	---	0.806	Filtered		ES
RS-17		Primary	12/10/90	Cesium-137	1.9 U	4.67	10	Filtered		IT
RS-17		Primary	12/07/91	Cesium-137	-0.442 U	5.62	10	Filtered		IT
RS-17		Primary	12/05/92	Cesium-137	0 U	---	---	Filtered		CEP
RS-18		Primary	03/10/91	Cesium-137	2.4 U	4.23	10	Filtered		IT
RS-18		Duplicate	03/10/91	Cesium-137	0.985 U	4.69	10	Filtered		IT
RS-18		Primary	03/04/92	Cesium-137	0 U	---	---	Filtered		CEP
RS-18		Split	12/15/92	Cesium-134	5.2 U	---	5.2	Filtered		BL
RS-18		Primary	12/15/92	Cesium-137	0 U	---	---	Filtered		CEP
RS-18		Split	12/15/92	Cesium-137	5.2 U	---	5.2	Filtered		BL
RS-18		Split	12/15/92	Cobalt-57	5.2 U	---	5.2	Filtered		BL
RS-18		Split	12/15/92	Cobalt-60	5.2 U	---	5.2	Filtered		BL
RS-18		Primary	06/23/93	Cesium-137	0 U	---	---	Filtered		CEP
RS-18		Primary	11/06/93	Antimony-125	2.35 U	---	2.35	Filtered		LAS
RS-18		Primary	11/06/93	Beryllium-7	16.5 U	---	16.5	Filtered		LAS
RS-18		Primary	11/06/93	Cesium-134	2.53 U	---	2.53	Filtered		LAS
RS-18		Primary	11/06/93	Cesium-137	1.84 U	---	1.84	Filtered		LAS
RS-18		Primary	11/06/93	Cobalt-60	1.28 U	---	1.28	Filtered		LAS
RS-18		Primary	11/06/93	Europium-152	5.53 U	---	5.53	Filtered		LAS
RS-18		Primary	11/06/93	Europium-154	3.85 U	---	3.85	Filtered		LAS
RS-18		Primary	11/06/93	Europium-155	3.2 U	---	3.2	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Shallow Wells										
RS-18		Primary	11/06/93	Manganese-54	1.11 U	---	1.11	Filtered		LAS
RS-18		Primary	11/06/93	Ruthenium-106	7.91 U	---	7.91	Filtered		LAS
RS-18		Primary	11/06/93	Silver-110m	1.9 U	---	1.9	Filtered		LAS
RS-18		Primary	05/04/94	Cesium-137	-2.2 U	5.8	7.3	Filtered		LAS
RS-18		Primary	05/04/94	Cobalt-57	0.4 U	2.1	3.5	Filtered		LAS
RS-18		Primary	05/04/94	Cobalt-60	0.1 U	4.2	7.7	Filtered		LAS
RS-18		Primary	02/17/95	Cesium-134	-2.5 U	3.2	7.6	Filtered		LAS
RS-18		Primary	02/17/95	Cesium-137	-2.7 U	3.2	11	Filtered		LAS
RS-18		Primary	02/17/95	Cobalt-57	1.4 U	3.7	4.4	Filtered		LAS
RS-18		Primary	02/17/95	Cobalt-60	-0.9 U	2	9.6	Filtered		LAS
RS-18		Primary	08/10/95	Cesium-134	1.7 U	4	6.2	Filtered		LAS
RS-18		Primary	08/10/95	Cesium-137	1.5 U	5.2	9.2	Filtered		LAS
RS-18		Primary	08/10/95	Cobalt-57	3.6 U	2.8	4.3	Filtered		LAS
RS-18		Primary	08/10/95	Cobalt-60	0.8 U	4.7	9.5	Filtered		LAS
RS-18		Primary	05/16/96	Cesium-134	-3.2 U	2.1	7.7	Filtered		LAS
RS-18		Primary	05/16/96	Cesium-137	-3.3 U	2.9	9.5	Filtered		LAS
RS-18		Primary	05/16/96	Cobalt-57	0.5 U	3.3	4.3	Filtered		LAS
RS-18		Primary	05/16/96	Cobalt-60	-1.8 U	3.1	11	Filtered		LAS
RS-18		Primary	02/03/97	Cesium-134	0.5 U	8.9	15	Filtered		LAS
RS-18		Primary	02/03/97	Cesium-137	-3.4 U	5.5	17	Filtered		LAS
RS-18		Primary	02/03/97	Cobalt-57	-5.8 U	3.8	12	Filtered		LAS
RS-18		Primary	02/03/97	Cobalt-60	2 U	6.2	12	Filtered		LAS
RS-18		Primary	02/05/98	Cesium-134	5.26 U	---	5.26	Filtered		TN
RS-18		Primary	02/05/98	Cesium-137	3.69 U	---	3.69	Filtered		TN
RS-18		Primary	02/05/98	Cobalt-57	2.43 U	---	2.43	Filtered		TN
RS-18		Primary	02/05/98	Cobalt-60	4.07 U	---	4.07	Filtered		TN
RS-18		Primary	08/05/98	Cesium-134	32.3 U	---	32.3	Filtered		TN
RS-18		Primary	08/05/98	Cesium-137	31.3 U	---	31.3	Filtered		TN
RS-18		Primary	08/05/98	Cobalt-57	16.5 U	---	16.5	Filtered		TN
RS-18		Primary	08/05/98	Cobalt-60	32.6 U	---	32.6	Filtered		TN
RS-18		Primary	05/12/99	Cesium-134	8.74 U	---	8.74	Filtered		TN
RS-18		Primary	05/12/99	Cesium-137	7.12 U	---	7.12	Filtered		TN
RS-18		Primary	05/12/99	Cobalt-57	3.8 U	---	3.8	Filtered		TN
RS-18		Primary	05/12/99	Cobalt-60	6.96 U	---	6.96	Filtered		TN
RS-18		Primary	05/09/00	Cesium-134	17.5 U	---	17.5	Filtered		TR
RS-18		Primary	05/09/00	Cesium-137	13.4 U	---	13.4	Filtered		TR
RS-18		Primary	05/09/00	Cobalt-57	7.1 U	---	7.1	Filtered		TR
RS-18		Primary	05/09/00	Cobalt-60	14.2 U	---	14.2	Filtered		TR
RS-18		Primary	02/19/01	Cesium-134	18.9 U	---	18.9	Filtered		ES
RS-18		Primary	02/19/01	Cesium-137	14.5 U	---	14.5	Filtered		ES
RS-18		Primary	02/19/01	Cobalt-57	9.41 U	---	9.41	Filtered		ES
RS-18		Primary	02/19/01	Cobalt-60	16.8 U	---	16.8	Filtered		ES
RS-18		Primary	05/02/03	Cesium-134	1.97 U	---	1.97	Unfiltered		ES
RS-18		Primary	05/02/03	Cesium-137	1.76 U	---	1.76	Unfiltered		ES
RS-18		Primary	05/02/03	Cobalt-57	0.978 U	---	0.978	Unfiltered		ES
RS-18		Primary	05/02/03	Cobalt-60	1.84 U	---	1.84	Unfiltered		ES

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Shallow Wells										
RS-18		Primary	02/23/05	Cesium-134	1.67 U	---	1.67	Filtered		ES
RS-18		Primary	02/23/05	Cesium-137	1.26 U	---	1.26	Filtered		ES
RS-18		Primary	02/23/05	Cobalt-57	0.55 U	---	0.55	Filtered		ES
RS-18		Primary	02/23/05	Cobalt-60	1.45 U	---	1.45	Filtered		ES
RS-18		Primary	02/23/05	Europium-152	3.34 U	---	3.34	Filtered		ES
RS-18		Primary	02/23/05	Europium-154	4.12 U	---	4.12	Filtered		ES
RS-18		Primary	02/23/05	Manganese-54	1.31 U	---	1.31	Filtered		ES
RS-18		Primary	02/23/05	Sodium-22	1.41 U	---	1.41	Filtered		ES
RS-18		Primary	08/26/05	Cesium-134	1.65 U	---	1.65	Filtered		ES
RS-18		Primary	08/26/05	Cesium-137	1.21 U	---	1.21	Filtered		ES
RS-18		Primary	08/26/05	Cobalt-57	0.587 U	---	0.587	Filtered		ES
RS-18		Primary	08/26/05	Cobalt-60	1.46 U	---	1.46	Filtered		ES
RS-18		Primary	08/26/05	Europium-152	3.18 U	---	3.18	Filtered		ES
RS-18		Primary	08/26/05	Europium-154	4.1 U	---	4.1	Filtered		ES
RS-18		Primary	08/26/05	Manganese-54	1.36 U	---	1.36	Filtered		ES
RS-18		Primary	08/26/05	Sodium-22	1.39 U	---	1.39	Filtered		ES
RS-18		Primary	02/20/06	Cesium-134	1.05 U	---	1.05	Filtered		ES
RS-18		Primary	02/20/06	Cesium-137	0.947 U	---	0.947	Filtered		ES
RS-18		Primary	02/20/06	Cobalt-57	0.65 U	---	0.65	Filtered		ES
RS-18		Primary	02/20/06	Cobalt-60	0.973 U	---	0.973	Filtered		ES
RS-18		Primary	02/20/06	Europium-152	2.28 U	---	2.28	Filtered		ES
RS-18		Primary	02/20/06	Europium-154	2.85 U	---	2.85	Filtered		ES
RS-18		Primary	02/20/06	Manganese-54	0.905 U	---	0.905	Filtered		ES
RS-18		Primary	02/20/06	Sodium-22	0.975 U	---	0.975	Filtered		ES
RS-18		Primary	02/04/08	Cesium-134	2.08 U	---	2.08	Filtered		ES
RS-18		Primary	02/04/08	Cesium-137	1.65 U	---	1.65	Filtered		ES
RS-18		Primary	02/04/08	Cobalt-57	1.09 U	---	1.09	Filtered		ES
RS-18		Primary	02/04/08	Cobalt-60	1.61 U	---	1.61	Filtered		ES
RS-18		Primary	02/04/08	Europium-152	4.71 U	---	4.71	Filtered		ES
RS-18		Primary	02/04/08	Europium-154	5.05 U	---	5.05	Filtered		ES
RS-18		Primary	02/04/08	Manganese-54	1.63 U	---	1.63	Filtered		ES
RS-18		Primary	02/04/08	Sodium-22	1.72 U	---	1.72	Filtered		ES
RS-25		Primary	02/25/03	Cesium-134	1.88 U	---	1.88	Filtered		ES
RS-25		Primary	02/25/03	Cesium-137	1.64 U	---	1.64	Filtered		ES
RS-25		Primary	02/25/03	Cobalt-57	1.31 U	---	1.31	Filtered		ES
RS-25		Primary	02/25/03	Cobalt-60	1.66 U	---	1.66	Filtered		ES
RS-25		Primary	02/13/08	Cesium-134	1.69 U	---	1.69	Filtered		ES
RS-25		Primary	02/13/08	Cesium-137	1.35 U	---	1.35	Filtered		ES
RS-25		Primary	02/13/08	Cobalt-57	0.95 U	---	0.95	Filtered		ES
RS-25		Primary	02/13/08	Cobalt-60	1.35 U	---	1.35	Filtered		ES
RS-25		Primary	02/13/08	Europium-152	3.98 U	---	3.98	Filtered		ES
RS-25		Primary	02/13/08	Europium-154	4.28 U	---	4.28	Filtered		ES
RS-25		Primary	02/13/08	Manganese-54	1.31 U	---	1.31	Filtered		ES
RS-25		Primary	02/13/08	Sodium-22	1.46 U	---	1.46	Filtered		ES
RS-27		Primary	03/04/91	Cesium-137	0.335 U	5.16	10	Filtered		CEP

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Shallow Wells										
RS-28		Primary	10/19/89	Cesium-137	2.48 U	4.22	---	Filtered		UST
RS-28		Primary	11/01/89	Cesium-137	1.77 U	3.9	---	Filtered		UST
RS-28		Primary	11/01/89	Cesium-137	-1.27 U	4.39	---	Unfiltered		UST
RS-28		Primary	12/06/90	Cesium-137	-3.02 U	4.88	10	Filtered		IT
RS-28		Primary	03/09/91	Cesium-137	0.164 U	3.62	10	Filtered		IT
RS-28		Primary	12/06/91	Cesium-137	1.78 U	---	10	Filtered		IT
RS-28		Primary	03/09/92	Cesium-137	0 U	---	---	Filtered		CEP
RS-28		Primary	06/22/93	Cesium-137	0 U	---	---	Filtered		CEP
RS-28		Primary	11/06/93	Antimony-125	6.28 U	---	6.28	Filtered		LAS
RS-28		Primary	11/06/93	Beryllium-7	26.5 U	---	26.5	Filtered		LAS
RS-28		Primary	11/06/93	Cesium-134	5.8 U	---	5.8	Filtered		LAS
RS-28		Primary	11/06/93	Cesium-137	3.05 U	---	3.05	Filtered		LAS
RS-28		Primary	11/06/93	Cobalt-60	1.51 U	---	1.51	Filtered		LAS
RS-28		Primary	11/06/93	Europium-152	6.04 U	---	6.04	Filtered		LAS
RS-28		Primary	11/06/93	Europium-154	3.41 U	---	3.41	Filtered		LAS
RS-28		Primary	11/06/93	Europium-155	6.91 U	---	6.91	Filtered		LAS
RS-28		Primary	11/06/93	Manganese-54	2.16 U	---	2.16	Filtered		LAS
RS-28		Primary	11/06/93	Ruthenium-106	16 U	---	16	Filtered		LAS
RS-28		Primary	11/06/93	Silver-110m	3.58 U	---	3.58	Filtered		LAS
RS-28		Primary	05/07/94	Cesium-137	1.5 U	5.7	7.6	Filtered		LAS
RS-28		Primary	05/07/94	Cobalt-57	-1.5 U	2.5	4.4	Filtered		LAS
RS-28		Primary	05/07/94	Cobalt-60	0.3 U	3.4	6.7	Filtered		LAS
RS-28		Primary	05/17/95	Cesium-134	2.6 U	4.5	8.6	Filtered		LAS
RS-28		Primary	05/17/95	Cesium-137	-2.4 U	3.7	11	Filtered		LAS
RS-28		Primary	05/17/95	Cobalt-57	-1.5 U	1.7	5.1	Filtered		LAS
RS-28		Primary	05/17/95	Cobalt-60	-1.4 U	5.5	11	Filtered		LAS
RS-28		Primary	05/16/96	Cesium-134	-2.5 U	2.1	4.8	Filtered		LAS
RS-28		Primary	05/16/96	Cesium-137	-1.7 U	1.7	4.8	Filtered		LAS
RS-28		Primary	05/16/96	Cobalt-57	2.4 U	2.9	3.8	Filtered		LAS
RS-28		Primary	05/16/96	Cobalt-60	0.8 U	1.7	3.6	Filtered		LAS
RS-28		Primary	05/08/98	Cesium-134	18.4 U	---	18.4	Filtered		TN
RS-28		Primary	05/08/98	Cesium-137	14.5 U	---	14.5	Filtered		TN
RS-28		Primary	05/08/98	Cobalt-57	8.47 U	---	8.47	Filtered		TN
RS-28		Primary	05/08/98	Cobalt-60	15.2 U	---	15.2	Filtered		TN
RS-28		Primary	11/16/98	Cesium-134	8.63 U	---	8.63	Filtered		TN
RS-28		Primary	11/16/98	Cesium-137	5.71 U	---	5.71	Filtered		TN
RS-28		Primary	11/16/98	Cobalt-57	4.21 U	---	4.21	Filtered		TN
RS-28		Primary	11/16/98	Cobalt-60	6.64 U	---	6.64	Filtered		TN
RS-28		Primary	05/05/00	Cesium-134	20.7 U	---	20.7	Filtered		TR
RS-28		Primary	05/05/00	Cesium-137	11.9 U	---	11.9	Filtered		TR
RS-28		Primary	05/05/00	Cobalt-57	9.5 U	---	9.5	Filtered		TR
RS-28		Primary	05/05/00	Cobalt-60	12.5 U	---	12.5	Filtered		TR
RS-28		Primary	05/10/01	Cesium-134	8.46 U	---	8.46	Filtered		ES
RS-28		Primary	05/10/01	Cesium-137	6.75 U	---	6.75	Filtered		ES
RS-28		Primary	05/10/01	Cobalt-57	3.69 U	---	3.69	Filtered		ES
RS-28		Primary	05/10/01	Cobalt-60	10.4 U	---	10.4	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Shallow Wells										
RS-28		Primary	05/20/05	Cesium-134	2.05 U	---	2.05	Filtered		ES
RS-28		Primary	05/20/05	Cesium-137	1.67 U	---	1.67	Filtered		ES
RS-28		Primary	05/20/05	Cobalt-57	1.08 U	---	1.08	Filtered		ES
RS-28		Primary	05/20/05	Cobalt-60	1.73 U	---	1.73	Filtered		ES
RS-28		Primary	05/20/05	Europium-152	4.86 U	---	4.86	Filtered		ES
RS-28		Primary	05/20/05	Europium-154	4.42 U	---	4.42	Filtered		ES
RS-28		Primary	05/20/05	Manganese-54	1.82 U	---	1.82	Filtered		ES
RS-28		Primary	05/20/05	Sodium-22	1.51 U	---	1.51	Filtered		ES
RS-28		Primary	02/17/06	Cesium-134	1.17 U	---	1.17	Filtered		ES
RS-28		Primary	02/17/06	Cesium-137	0.946 U	---	0.946	Filtered		ES
RS-28		Primary	02/17/06	Cobalt-57	0.64 U	---	0.64	Filtered		ES
RS-28		Primary	02/17/06	Cobalt-60	1.04 U	---	1.04	Filtered		ES
RS-28		Primary	02/17/06	Europium-152	2.26 U	---	2.26	Filtered		ES
RS-28		Primary	02/17/06	Europium-154	2.39 U	---	2.39	Filtered		ES
RS-28		Primary	02/17/06	Manganese-54	0.812 U	---	0.812	Filtered		ES
RS-28		Primary	02/17/06	Sodium-22	0.821 U	---	0.821	Filtered		ES
RS-28		Primary	02/13/07	Cesium-134	1.38 U	---	1.38	Filtered		ES
RS-28		Primary	02/13/07	Cesium-137	1.06 U	---	1.06	Filtered		ES
RS-28		Primary	02/13/07	Cobalt-57	0.692 U	---	0.692	Filtered		ES
RS-28		Primary	02/13/07	Cobalt-60	1.05 U	---	1.05	Filtered		ES
RS-28		Primary	02/13/07	Europium-152	2.95 U	---	2.95	Filtered		ES
RS-28		Primary	02/13/07	Europium-154	3.32 U	---	3.32	Filtered		ES
RS-28		Primary	02/13/07	Manganese-54	1.02 U	---	1.02	Filtered		ES
RS-28		Primary	02/13/07	Sodium-22	1.13 U	---	1.13	Filtered		ES
RS-28		Primary	02/06/08	Cesium-134	1.29 U	---	1.29	Filtered		ES
RS-28		Primary	02/06/08	Cesium-137	1.15 U	---	1.15	Filtered		ES
RS-28		Primary	02/06/08	Cobalt-57	0.854 U	---	0.854	Filtered		ES
RS-28		Primary	02/06/08	Cobalt-60	1.06 U	---	1.06	Filtered		ES
RS-28		Primary	02/06/08	Europium-152	3.09 U	---	3.09	Filtered		ES
RS-28		Primary	02/06/08	Europium-154	2.98 U	---	2.98	Filtered		ES
RS-28		Primary	02/06/08	Manganese-54	1 U	---	1	Filtered		ES
RS-28		Primary	02/06/08	Sodium-22	1.02 U	---	1.02	Filtered		ES
RS-54		Primary	09/11/93	Cesium-137	0 U	---	---	Filtered		CEP
RS-54		Primary	09/29/93	Cesium-137	0 U	---	---	Filtered		CEP
RS-54		Primary	05/07/94	Cesium-137	1.3 U	5.8	7.9	Filtered		LAS
RS-54		Primary	05/07/94	Cobalt-57	0 U	---	3.8	Filtered		LAS
RS-54		Primary	05/07/94	Cobalt-60	0 U	---	7.5	Filtered		LAS
RS-54		Primary	08/07/94	Cesium-134	-5.3 U	---	26	Filtered		LAS
RS-54		Primary	08/07/94	Cesium-137	8 U	---	26	Filtered		LAS
RS-54		Primary	08/07/94	Cobalt-57	-3.4 U	---	19	Filtered		LAS
RS-54		Primary	08/07/94	Cobalt-60	4 U	---	28	Filtered		LAS
RS-54		Primary	08/03/95	Cesium-134	-1.6 U	3.5	8.1	Filtered		LAS
RS-54		Primary	08/03/95	Cesium-137	-0.5 U	4.9	9.1	Filtered		LAS
RS-54		Primary	08/03/95	Cobalt-57	0.5 U	2.5	4.3	Filtered		LAS
RS-54		Primary	08/03/95	Cobalt-60	-2.3 U	2.7	11	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Shallow Wells										
RS-54		Primary	05/16/96	Cesium-134	-0.1 U	1.4	6.9	Filtered		LAS
RS-54		Primary	05/16/96	Cesium-137	-6.3 U	3.7	11	Filtered		LAS
RS-54		Primary	05/16/96	Cobalt-57	1.2 U	3.4	4.4	Filtered		LAS
RS-54		Primary	05/16/96	Cobalt-60	4.3 U	4.4	5.9	Filtered		LAS
RS-54		Primary	08/23/96	Cesium-134	0.3 U	3.5	7.4	Filtered		LAS
RS-54		Primary	08/23/96	Cesium-137	-1.8 U	1.7	9.7	Filtered		LAS
RS-54		Primary	08/23/96	Cobalt-57	-0.8 U	2	5	Filtered		LAS
RS-54		Primary	08/23/96	Cobalt-60	0.4 U	4	8.9	Filtered		LAS
RS-54		Primary	08/02/97	Cesium-134	-1.1 U	2.9	7.7	Filtered		LAS
RS-54		Primary	08/02/97	Cesium-137	-1.9 U	5.1	9	Filtered		LAS
RS-54		Primary	08/02/97	Cobalt-57	-1.5 U	2	4.9	Filtered		LAS
RS-54		Primary	08/02/97	Cobalt-60	3 U	4.8	7.6	Filtered		LAS
RS-54		Primary	08/27/97	Cesium-134	2.4 U	2	3.7	Filtered		LAS
RS-54		Primary	08/27/97	Cesium-134	1.6 U	2	3.4	Unfiltered		LAS
RS-54		Primary	08/27/97	Cesium-137	-0.5 U	0.75	4.5	Filtered		LAS
RS-54		Primary	08/27/97	Cesium-137	-1.8 U	1.9	5.1	Unfiltered		LAS
RS-54		Primary	08/27/97	Cobalt-57	0.7 U	2.8	3.7	Filtered		LAS
RS-54		Primary	08/27/97	Cobalt-57	1.9 U	2.6	3.3	Unfiltered		LAS
RS-54		Primary	08/27/97	Cobalt-60	0.4 U	1.6	3.1	Filtered		LAS
RS-54		Primary	08/27/97	Cobalt-60	-1.2 U	1.2	4.8	Unfiltered		LAS
RS-54		Primary	02/08/98	Cesium-134	16.8 U	---	16.8	Filtered		TN
RS-54		Primary	02/08/98	Cesium-137	15.8 U	---	15.8	Filtered		TN
RS-54		Primary	02/08/98	Cobalt-57	8.86 U	---	8.86	Filtered		TN
RS-54		Primary	02/08/98	Cobalt-60	18.1 U	---	18.1	Filtered		TN
RS-54		Primary	08/04/98	Cesium-134	18.9 U	---	18.9	Filtered		TN
RS-54		Primary	08/04/98	Cesium-137	11.3 U	---	11.3	Filtered		TN
RS-54		Primary	08/04/98	Cobalt-57	7.55 U	---	7.55	Filtered		TN
RS-54		Primary	08/04/98	Cobalt-60	12 U	---	12	Filtered		TN
RS-54		Primary	02/02/99	Cesium-134	17.5 U	---	17.5	Filtered		TN
RS-54		Primary	02/02/99	Cesium-137	13.4 U	---	13.4	Filtered		TN
RS-54		Primary	02/02/99	Cobalt-57	5.81 U	---	5.81	Filtered		TN
RS-54		Primary	02/02/99	Cobalt-60	20 U	---	20	Filtered		TN
RS-54		Primary	08/18/99	Cesium-134	12.4 U	---	12.4	Filtered		TN
RS-54		Primary	08/18/99	Cesium-137	10.3 U	---	10.3	Filtered		TN
RS-54		Primary	08/18/99	Cobalt-57	8.18 U	---	8.18	Filtered		TN
RS-54		Primary	08/18/99	Cobalt-60	10.6 U	---	10.6	Filtered		TN
RS-54		Primary	03/15/00	Cesium-134	29.4 U	---	29.4	Filtered		TR
RS-54		Primary	03/15/00	Cesium-137	27.2 U	---	27.2	Filtered		TR
RS-54		Primary	03/15/00	Cobalt-57	14.4 U	---	14.4	Filtered		TR
RS-54		Primary	03/15/00	Cobalt-60	26.5 U	---	26.5	Filtered		TR
RS-54		Primary	11/01/01	Cesium-134	0.2 U	0.9	10	Filtered		DL
RS-54		Primary	11/01/01	Cesium-137	2 U	---	2	Filtered		DL
RS-54		Primary	11/01/01	Cobalt-57	0.5 U	0.6	0.9	Filtered		DL
RS-54		Primary	11/01/01	Cobalt-60	3.8 U	50	5	Filtered		DL
RS-54		Primary	03/01/02	Cesium-134	5	3	3	Filtered		DL
RS-54		Primary	03/01/02	Cesium-137	2 U	2	2	Filtered		DL

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Shallow Wells										
RS-54		Primary	03/01/02	Cobalt-57	3 U	3	3	Filtered		DL
RS-54		Primary	03/01/02	Cobalt-60	3 U	3	3	Filtered		DL
RS-54		Primary	11/07/02	Cesium-134	3.37 U	---	3.37	Filtered		ES
RS-54		Primary	11/07/02	Cesium-137	2.57 U	---	2.57	Filtered		ES
RS-54		Primary	11/07/02	Cobalt-57	2.34 U	---	2.34	Filtered		ES
RS-54		Primary	11/07/02	Cobalt-60	2.74 U	---	2.74	Filtered		ES
RS-54		Primary	02/16/05	Cesium-134	1.58 U	---	1.58	Filtered		ES
RS-54		Primary	02/16/05	Cesium-137	1.24 U	---	1.24	Filtered		ES
RS-54		Primary	02/16/05	Cobalt-57	0.539 U	---	0.539	Filtered		ES
RS-54		Primary	02/16/05	Cobalt-60	1.4 U	---	1.4	Filtered		ES
RS-54		Primary	02/16/05	Europium-152	3.22 U	---	3.22	Filtered		ES
RS-54		Primary	02/16/05	Europium-154	4.23 U	---	4.23	Filtered		ES
RS-54		Primary	02/16/05	Manganese-54	1.27 U	---	1.27	Filtered		ES
RS-54		Primary	02/16/05	Sodium-22	1.44 U	---	1.44	Filtered		ES
RS-54		Primary	09/06/05	Cesium-134	2.69 U	---	2.69	Filtered		ES
RS-54		Primary	09/06/05	Cesium-137	2.12 U	---	2.12	Filtered		ES
RS-54		Primary	09/06/05	Cobalt-57	1.8 U	---	1.8	Filtered		ES
RS-54		Primary	09/06/05	Cobalt-60	2.21 U	---	2.21	Filtered		ES
RS-54		Primary	09/06/05	Europium-152	5.97 U	---	5.97	Filtered		ES
RS-54		Primary	09/06/05	Europium-154	6.31 U	---	6.31	Filtered		ES
RS-54		Primary	09/06/05	Manganese-54	2.28 U	---	2.28	Filtered		ES
RS-54		Primary	09/06/05	Sodium-22	2.18 U	---	2.18	Filtered		ES
RS-54		Primary	02/23/06	Cesium-134	1.04 U	---	1.04	Filtered		ES
RS-54		Split	02/23/06	Cesium-134	-1.77 U	1	2.24	Filtered		STL
RS-54		Primary	02/23/06	Cesium-137	0.928 U	---	0.928	Filtered		ES
RS-54		Split	02/23/06	Cesium-137	-0.148 U	1	2.18	Filtered		STL
RS-54		Primary	02/23/06	Cobalt-57	0.638 U	---	0.638	Filtered		ES
RS-54		Split	02/23/06	Cobalt-57	6.59 U	8	12.6	Filtered		STL
RS-54		Primary	02/23/06	Cobalt-60	1.02 U	---	1.02	Filtered		ES
RS-54		Split	02/23/06	Cobalt-60	1.68 U	2	2.95	Filtered		STL
RS-54		Primary	02/23/06	Europium-152	2.39 U	---	2.39	Filtered		ES
RS-54		Split	02/23/06	Europium-152	-2.26 U	3	4.9	Filtered		STL
RS-54		Primary	02/23/06	Europium-154	3.2 U	---	3.2	Filtered		ES
RS-54		Split	02/23/06	Europium-154	1 U	4	7.13	Filtered		STL
RS-54		Primary	02/23/06	Manganese-54	0.886 U	---	0.886	Filtered		ES
RS-54		Split	02/23/06	Manganese-54	-0.031 U	1	2.29	Filtered		STL
RS-54		Primary	02/23/06	Sodium-22	1.09 U	---	1.09	Filtered		ES
RS-54		Split	02/23/06	Sodium-22	0.14 U	1	2.55	Filtered		STL
RS-54		Primary	02/15/07	Cesium-134	1.22 U	---	1.22	Filtered		ES
RS-54		Primary	02/15/07	Cesium-137	1.04 U	---	1.04	Filtered		ES
RS-54		Primary	02/15/07	Cobalt-57	0.67 U	---	0.67	Filtered		ES
RS-54		Primary	02/15/07	Cobalt-60	1.03 U	---	1.03	Filtered		ES
RS-54		Primary	02/15/07	Europium-152	2.89 U	---	2.89	Filtered		ES
RS-54		Primary	02/15/07	Europium-154	3.14 U	---	3.14	Filtered		ES
RS-54		Primary	02/15/07	Manganese-54	0.997 U	---	0.997	Filtered		ES
RS-54		Primary	02/15/07	Sodium-22	1.08 U	---	1.08	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Shallow Wells										
RS-54		Primary	02/22/08	Cesium-134	1.67 U	---	1.67	Filtered		ES
RS-54		Primary	02/22/08	Cesium-137	2.1 U	---	2.1	Filtered		ES
RS-54		Primary	02/22/08	Cobalt-57	0.88 U	---	0.88	Filtered		ES
RS-54		Primary	02/22/08	Cobalt-60	1.4 U	---	1.4	Filtered		ES
RS-54		Primary	02/22/08	Europium-152	3.26 U	---	3.26	Filtered		ES
RS-54		Primary	02/22/08	Europium-154	4.06 U	---	4.06	Filtered		ES
RS-54		Primary	02/22/08	Manganese-54	1.31 U	---	1.31	Filtered		ES
RS-54		Primary	02/22/08	Sodium-22	1.39 U	---	1.39	Filtered		ES
SH-11		Primary	10/17/89	Cesium-137	2.26 U	4.55	---	Filtered		UST
SH-11		Primary	10/31/89	Cesium-137	3.24 U	4.18	---	Filtered		UST
SH-11		Primary	10/31/89	Cesium-137	-0.621 U	5.25	---	Unfiltered		UST
Chatsworth Formation Wells										
RD-06		Primary	10/18/89	Cesium-137	-4.36 U	4.83	---	Unfiltered		UST
RD-06		Primary	10/31/89	Cesium-137	0.942 U	4.43	---	Filtered		UST
RD-06		Primary	10/31/89	Cesium-137	1.96 U	2.9	---	Unfiltered		UST
RD-06		Primary	03/06/91	Cesium-137	-1.96 U	5.44	10	Filtered		IT
RD-06		Primary	03/10/92	Cesium-137	0 U	---	---	Filtered		CEP
RD-07		Primary	12/05/90	Cesium-137	2.62 U	5.48	10	Filtered		IT
RD-07		Primary	03/09/91	Cesium-137	1.47 U	5.09	10	Filtered		IT
RD-07		Primary	12/07/91	Cesium-137	-0.535 U	4.37	10	Filtered		IT
RD-07		Primary	03/06/92	Cesium-137	0 U	---	---	Filtered		CEP
RD-07		Primary	08/25/97	Cesium-134	0.5 U	1.9	3.7	Filtered		LAS
RD-07		Primary	08/25/97	Cesium-134	0.6 U	3.2	6.8	Unfiltered		LAS
RD-07		Primary	08/25/97	Cesium-137	-1 U	1.5	4.4	Filtered		LAS
RD-07		Primary	08/25/97	Cesium-137	1.3 U	7.4	10	Unfiltered		LAS
RD-07		Primary	08/25/97	Cobalt-57	1.6 U	2.6	3.3	Filtered		LAS
RD-07		Primary	08/25/97	Cobalt-57	-0.3 U	1.9	4.8	Unfiltered		LAS
RD-07		Primary	08/25/97	Cobalt-60	0.2 U	1.6	3.3	Filtered		LAS
RD-07		Primary	08/25/97	Cobalt-60	5.9 U	5.5	11	Unfiltered		LAS
RD-07		Primary	02/06/99	Cesium-134	8.38 U	---	8.38	Filtered		TN
RD-07		Primary	02/06/99	Cesium-137	6.28 U	---	6.28	Filtered		TN
RD-07		Primary	02/06/99	Cobalt-57	4.09 U	---	4.09	Filtered		TN
RD-07		Primary	02/06/99	Cobalt-60	7.65 U	---	7.65	Filtered		TN
RD-07		Primary	03/16/00	Cesium-134	14.8 U	---	14.8	Filtered		TR
RD-07		Primary	03/16/00	Cesium-137	12.9 U	---	12.9	Filtered		TR
RD-07		Primary	03/16/00	Cobalt-57	6.38 U	---	6.38	Filtered		TR
RD-07		Primary	03/16/00	Cobalt-60	15.8 U	---	15.8	Filtered		TR
RD-07		Primary	02/23/01	Cesium-134	11.6 U	---	11.6	Filtered		ES
RD-07		Primary	02/23/01	Cesium-137	10.4 U	---	10.4	Filtered		ES
RD-07		Primary	02/23/01	Cobalt-57	7.04 U	---	7.04	Filtered		ES
RD-07		Primary	02/23/01	Cobalt-60	8.84 U	---	8.84	Filtered		ES
RD-07		Primary	02/22/02	Cesium-134	5 U	3	5	Filtered		DL
RD-07		Primary	02/22/02	Cesium-137	5 U	3	5	Filtered		DL
RD-07		Primary	02/22/02	Cobalt-57	3 U	3	3	Filtered		DL
RD-07		Primary	02/22/02	Cobalt-60	5 U	3	5	Filtered		DL

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-07	Z3	Primary	01/29/03	Cesium-134	2.48 U	---	2.48	Filtered		ES
RD-07	Z3	Primary	01/29/03	Cesium-137	1.47 U	---	1.47	Filtered		ES
RD-07	Z3	Primary	01/29/03	Cobalt-57	0.797 U	---	0.797	Filtered		ES
RD-07	Z3	Primary	01/29/03	Cobalt-60	1.38 U	---	1.38	Filtered		ES
RD-07	Z3	Primary	02/17/05	Cesium-134	1.5 U	---	1.5	Filtered		ES
RD-07	Z3	Primary	02/17/05	Cesium-137	1.21 U	---	1.21	Filtered		ES
RD-07	Z3	Primary	02/17/05	Cobalt-57	0.956 U	---	0.956	Filtered		ES
RD-07	Z3	Primary	02/17/05	Cobalt-60	1.47 U	---	1.47	Filtered		ES
RD-07	Z3	Primary	02/17/05	Europium-152	3.13 U	---	3.13	Filtered		ES
RD-07	Z3	Primary	02/17/05	Europium-154	4.08 U	---	4.08	Filtered		ES
RD-07	Z3	Primary	02/17/05	Manganese-54	1.22 U	---	1.22	Filtered		ES
RD-07	Z3	Primary	02/17/05	Sodium-22	1.39 U	---	1.39	Filtered		ES
RD-07	Z3	Primary	02/16/06	Cesium-134	1.7 U	---	1.7	Filtered		ES
RD-07	Z3	Primary	02/16/06	Cesium-137	1.57 U	---	1.57	Filtered		ES
RD-07	Z3	Primary	02/16/06	Cobalt-57	1.29 U	---	1.29	Filtered		ES
RD-07	Z3	Primary	02/16/06	Cobalt-60	1.56 U	---	1.56	Filtered		ES
RD-07	Z3	Primary	02/16/06	Europium-152	4.25 U	---	4.25	Filtered		ES
RD-07	Z3	Primary	02/16/06	Europium-154	4.84 U	---	4.84	Filtered		ES
RD-07	Z3	Primary	02/16/06	Manganese-54	1.52 U	---	1.52	Filtered		ES
RD-07	Z3	Primary	02/16/06	Sodium-22	1.67 U	---	1.67	Filtered		ES
RD-07	Z3	Primary	02/08/07	Cesium-134	1.27 U	---	1.27	Filtered		ES
RD-07	Z3	Primary	02/08/07	Cesium-137	0.991 U	---	0.991	Filtered		ES
RD-07	Z3	Primary	02/08/07	Cobalt-57	0.703 U	---	0.703	Filtered		ES
RD-07	Z3	Primary	02/08/07	Cobalt-60	1.07 U	---	1.07	Filtered		ES
RD-07	Z3	Primary	02/08/07	Europium-152	2.84 U	---	2.84	Filtered		ES
RD-07	Z3	Primary	02/08/07	Europium-154	3.2 U	---	3.2	Filtered		ES
RD-07	Z3	Primary	02/08/07	Manganese-54	0.952 U	---	0.952	Filtered		ES
RD-07	Z3	Primary	02/08/07	Sodium-22	1.09 U	---	1.09	Filtered		ES
RD-07	Z3	Primary	02/05/08	Cesium-134	0.796 U	---	0.796	Filtered		ES
RD-07	Z3	Primary	02/05/08	Cesium-137	0.664 U	---	0.664	Filtered		ES
RD-07	Z3	Primary	02/05/08	Cobalt-57	0.513 U	---	0.513	Filtered		ES
RD-07	Z3	Primary	02/05/08	Cobalt-60	0.573 U	---	0.573	Filtered		ES
RD-07	Z3	Primary	02/05/08	Europium-152	1.83 U	---	1.83	Filtered		ES
RD-07	Z3	Primary	02/05/08	Europium-154	1.75 U	---	1.75	Filtered		ES
RD-07	Z3	Primary	02/05/08	Manganese-54	0.523 U	---	0.523	Filtered		ES
RD-07	Z3	Primary	02/05/08	Sodium-22	0.595 U	---	0.595	Filtered		ES
RD-10		Primary	03/06/91	Cesium-137	-0.337 U	5.54	10	Filtered		IT
RD-10		Primary	03/07/92	Cesium-137	0 U	---	---	Filtered		CEP
RD-13		Primary	09/12/89	Cesium-137	-1.74 U	5.09	---	Filtered		UST
RD-13		Primary	09/12/89	Cesium-137	0.83 U	3.98	---	Unfiltered		UST
RD-13		Split	09/12/89	Cesium-137	-15 U	---	---	Filtered		TMA
RD-13		Split	09/12/89	Cesium-137	-10 U	---	---	Unfiltered		TMA
RD-13		Primary	09/12/89	Cobalt-60	1.14 U	3.09	---	Filtered		UST
RD-13		Primary	09/12/89	Cobalt-60	1.51 U	3.82	---	Unfiltered		UST
RD-13		Primary	10/17/89	Cesium-137	-2.07 U	6.36	---	Filtered		UST

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-13		Primary	10/31/89	Cesium-137	-2.26 U	4.24	---	Filtered		UST
RD-13		Primary	12/06/90	Cesium-137	3.94 U	4.39	10	Filtered		IT
RD-13		Primary	03/08/91	Cesium-137	1.26 U	4.31	10	Filtered		IT
RD-13		Primary	12/10/91	Cesium-137	1.19 U	4.88	10	Filtered		IT
RD-13		Primary	03/12/92	Cesium-137	0 U	---	---	Filtered		CEP
RD-13		Primary	08/26/97	Cesium-134	-1.1 U	3.2	7.1	Filtered		LAS
RD-13		Primary	08/26/97	Cesium-134	1.1 U	2.9	5.3	Unfiltered		LAS
RD-13		Primary	08/26/97	Cesium-137	5.3 U	7	8.6	Filtered		LAS
RD-13		Primary	08/26/97	Cesium-137	-3.3 U	3.5	10	Unfiltered		LAS
RD-13		Primary	08/26/97	Cobalt-57	-1.4 U	1.7	4.6	Filtered		LAS
RD-13		Primary	08/26/97	Cobalt-57	-1 U	2.7	4.8	Unfiltered		LAS
RD-13		Primary	08/26/97	Cobalt-60	4.3 U	5.4	7.1	Filtered		LAS
RD-13		Primary	08/26/97	Cobalt-60	-1.6 U	2.5	9.4	Unfiltered		LAS
RD-14		Primary	10/18/89	Cesium-137	0.441 U	4.8	---	Filtered		UST
RD-14		Primary	10/18/89	Cesium-137	1.44 U	5	---	Unfiltered		UST
RD-14		Primary	10/31/89	Cesium-137	-3.1 U	5.29	---	Filtered		UST
RD-14		Primary	10/31/89	Cesium-137	-3.42 U	4.58	---	Unfiltered		UST
RD-14		Primary	12/07/90	Cesium-137	-2.79 U	5.22	10	Filtered		IT
RD-14		Primary	03/09/91	Cesium-137	0.125 U	4.09	10	Filtered		IT
RD-14		Primary	12/06/91	Cesium-137	-1.01 U	4.78	10	Filtered		IT
RD-14		Primary	03/05/92	Cesium-137	0 U	---	---	Filtered		CEP
RD-15		Primary	10/19/89	Cesium-137	-0.166 U	4.89	---	Filtered		UST
RD-15		Primary	12/07/90	Cesium-137	-1.48 U	5.07	10	Filtered		IT
RD-15		Primary	03/10/91	Cesium-137	2.25 U	3.59	10	Filtered		IT
RD-15		Primary	12/06/91	Cesium-137	1.89 U	3.93	10	Filtered		IT
RD-15		Primary	03/11/92	Cesium-137	0 U	---	---	Filtered		TEL
RD-15		Split	03/11/92	Cesium-137	0 U	---	---	Filtered		CEP
RD-15		Primary	05/10/01	Cesium-134	14.8 U	---	14.8	Filtered		ES
RD-15		Primary	05/10/01	Cesium-137	12.7 U	---	12.7	Filtered		ES
RD-15		Primary	05/10/01	Cobalt-57	8.23 U	---	8.23	Filtered		ES
RD-15		Primary	05/10/01	Cobalt-60	13.5 U	---	13.5	Filtered		ES
RD-15		Primary	03/06/02	Cesium-134	3 U	3	3	Filtered		DL
RD-15		Primary	03/06/02	Cesium-137	2 U	2	2	Filtered		DL
RD-15		Primary	03/06/02	Cobalt-57	3 U	3	3	Filtered		DL
RD-15		Primary	03/06/02	Cobalt-60	3 U	3	3	Filtered		DL
RD-15		Primary	02/26/03	Cesium-134	0.661 U	---	0.661	Filtered		ES
RD-15		Primary	02/26/03	Cesium-137	0.633 U	---	0.633	Filtered		ES
RD-15		Primary	02/26/03	Cobalt-57	0.525 U	---	0.525	Filtered		ES
RD-15		Primary	02/26/03	Cobalt-60	0.684 U	---	0.684	Filtered		ES
RD-15		Primary	02/24/04	Cesium-134	10.8 U	---	10.8	Filtered		ES
RD-15		Primary	02/24/04	Cesium-137	10.1 U	---	10.1	Filtered		ES
RD-15		Primary	02/24/04	Cobalt-57	6.37 U	---	6.37	Filtered		ES
RD-15		Primary	02/24/04	Cobalt-60	11.3 U	---	11.3	Filtered		ES
RD-15		Primary	02/14/05	Cesium-134	1.75 U	---	1.75	Filtered		ES
RD-15		Primary	02/14/05	Cesium-137	1.48 U	---	1.48	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-15		Primary	02/14/05	Cobalt-57	0.956 U	---	0.956	Filtered		ES
RD-15		Primary	02/14/05	Cobalt-60	1.79 U	---	1.79	Filtered		ES
RD-15		Primary	02/14/05	Europium-152	4.02 U	---	4.02	Filtered		ES
RD-15		Primary	02/14/05	Europium-154	4.75 U	---	4.75	Filtered		ES
RD-15		Primary	02/14/05	Manganese-54	1.45 U	---	1.45	Filtered		ES
RD-15		Primary	02/14/05	Sodium-22	1.62 U	---	1.62	Filtered		ES
RD-15		Primary	02/16/06	Cesium-134	1.3 U	---	1.3	Filtered		ES
RD-15		Split	02/16/06	Cesium-134	-0.537 U	1	2.36	Filtered		STL
RD-15		Primary	02/16/06	Cesium-137	0.962 U	---	0.962	Filtered		ES
RD-15		Split	02/16/06	Cesium-137	-0.543 U	1	2.02	Filtered		STL
RD-15		Primary	02/16/06	Cobalt-57	0.669 U	---	0.669	Filtered		ES
RD-15		Split	02/16/06	Cobalt-57	-0.786 U	7	11.7	Filtered		STL
RD-15		Primary	02/16/06	Cobalt-60	1.18 U	---	1.18	Filtered		ES
RD-15		Split	02/16/06	Cobalt-60	-1.3 U	2	2.48	Filtered		STL
RD-15		Primary	02/16/06	Europium-152	2.37 U	---	2.37	Filtered		ES
RD-15		Split	02/16/06	Europium-152	-0.636 U	3	5.71	Filtered		STL
RD-15		Primary	02/16/06	Europium-154	2.62 U	---	2.62	Filtered		ES
RD-15		Split	02/16/06	Europium-154	3.38 U	4	7.65	Filtered		STL
RD-15		Primary	02/16/06	Manganese-54	1.02 U	---	1.02	Filtered		ES
RD-15		Split	02/16/06	Manganese-54	-0.998 U	1	2.17	Filtered		STL
RD-15		Primary	02/16/06	Sodium-22	0.909 U	---	0.909	Filtered		ES
RD-15		Split	02/16/06	Sodium-22	0.902 U	2	2.74	Filtered		STL
RD-15		Primary	02/06/07	Cesium-134	1.34 U	---	1.34	Filtered		ES
RD-15		Primary	02/06/07	Cesium-137	1 U	---	1	Filtered		ES
RD-15		Primary	02/06/07	Cobalt-57	0.647 U	---	0.647	Filtered		ES
RD-15		Primary	02/06/07	Cobalt-60	1.11 U	---	1.11	Filtered		ES
RD-15		Primary	02/06/07	Europium-152	2.74 U	---	2.74	Filtered		ES
RD-15		Primary	02/06/07	Europium-154	3.3 U	---	3.3	Filtered		ES
RD-15		Primary	02/06/07	Manganese-54	0.998 U	---	0.998	Filtered		ES
RD-15		Primary	02/06/07	Sodium-22	1.12 U	---	1.12	Filtered		ES
RD-15		Primary	02/20/08	Cesium-134	1.93 U	---	1.93	Filtered		ES
RD-15		Primary	02/20/08	Cesium-137	1.48 U	---	1.48	Filtered		ES
RD-15		Primary	02/20/08	Cobalt-57	1.02 U	---	1.02	Filtered		ES
RD-15		Primary	02/20/08	Cobalt-60	1.58 U	---	1.58	Filtered		ES
RD-15		Primary	02/20/08	Europium-152	4.12 U	---	4.12	Filtered		ES
RD-15		Primary	02/20/08	Europium-154	4.83 U	---	4.83	Filtered		ES
RD-15		Primary	02/20/08	Manganese-54	1.46 U	---	1.46	Filtered		ES
RD-15		Primary	02/20/08	Sodium-22	1.65 U	---	1.65	Filtered		ES
RD-16		Primary	10/25/89	Cesium-137	-0.218 U	1.64	---	Filtered		UST
RD-16		Primary	12/07/90	Cesium-137	1.68 U	4.4	10	Filtered		IT
RD-16		Primary	03/09/91	Cesium-137	-1.06 U	4.12	10	Filtered		IT
RD-16		Primary	12/05/91	Cesium-137	-1.85 U	5.11	10	Filtered		IT
RD-16		Primary	06/06/92	Cesium-137	0 U	---	---	Filtered		CEP
RD-16		Primary	05/27/98	Cesium-134	18.1 U	---	18.1	Filtered		TN
RD-16		Primary	05/27/98	Cesium-137	15.5 U	---	15.5	Filtered		TN

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-16		Primary	05/27/98	Cobalt-57	6.75 U	---	6.75	Filtered		TN
RD-16		Primary	05/27/98	Cobalt-60	18.4 U	---	18.4	Filtered		TN
RD-17		Primary	10/18/89	Cesium-137	-1.25 U	4.34	---	Filtered		UST
RD-17		Duplicate	10/18/89	Cesium-137	-0.386 U	4.14	---	Filtered		UST
RD-17		Primary	10/31/89	Cesium-137	-0.502 U	1.42	---	Unfiltered		UST
RD-17		Primary	12/04/90	Cesium-137	-1.47 U	1.99	10	Filtered		IT
RD-17		Primary	03/05/91	Cesium-137	1.67 U	3.59	10	Filtered		IT
RD-17		Primary	12/07/91	Cesium-137	1.55 U	2.98	10	Filtered		IT
RD-17		Split	12/07/91	Cesium-137	10 U	---	10	Filtered		CEP
RD-17		Primary	03/04/92	Cesium-137	0 U	---	---	Filtered		CEP
RD-17		Primary	02/08/99	Cesium-134	13.4 U	---	13.4	Filtered		TN
RD-17		Primary	02/08/99	Cesium-137	10.9 U	---	10.9	Filtered		TN
RD-17		Primary	02/08/99	Cobalt-57	4.52 U	---	4.52	Filtered		TN
RD-17		Primary	02/08/99	Cobalt-60	15.8 U	---	15.8	Filtered		TN
RD-17		Primary	02/21/00	Cesium-134	17.7 U	---	17.7	Filtered		TR
RD-17		Primary	02/21/00	Cesium-137	16.4 U	---	16.4	Filtered		TR
RD-17		Primary	02/21/00	Cobalt-57	8.78 U	---	8.78	Filtered		TR
RD-17		Primary	02/21/00	Cobalt-60	18.3 U	---	18.3	Filtered		TR
RD-17		Primary	02/14/01	Cesium-134	21 U	---	21	Filtered		ES
RD-17		Primary	02/14/01	Cesium-137	18.7 U	---	18.7	Filtered		ES
RD-17		Primary	02/14/01	Cobalt-57	10.3 U	---	10.3	Filtered		ES
RD-17		Primary	02/14/01	Cobalt-60	18.8 U	---	18.8	Filtered		ES
RD-17		Primary	03/01/02	Cesium-134	3 U	1	3	Filtered		DL
RD-17		Primary	03/01/02	Cesium-137	3 U	1	3	Filtered		DL
RD-17		Primary	03/01/02	Cobalt-57	5 U	3	5	Filtered		DL
RD-17		Primary	03/01/02	Cobalt-60	5 U	3	5	Filtered		DL
RD-17		Primary	02/24/03	Cesium-134	3.27 U	---	3.27	Filtered		ES
RD-17		Primary	02/24/03	Cesium-137	1.65 U	---	1.65	Filtered		ES
RD-17		Primary	02/24/03	Cobalt-57	1.08 U	---	1.08	Filtered		ES
RD-17		Primary	02/24/03	Cobalt-60	1.99 U	---	1.99	Filtered		ES
RD-17		Primary	02/23/04	Cesium-134	13.1 U	---	13.1	Filtered		ES
RD-17		Primary	02/23/04	Cesium-137	10.7 U	---	10.7	Filtered		ES
RD-17		Primary	02/23/04	Cobalt-57	6.61 U	---	6.61	Filtered		ES
RD-17		Primary	02/23/04	Cobalt-60	10.2 U	---	10.2	Filtered		ES
RD-17		Primary	02/15/05	Cesium-134	1.44 U	---	1.44	Filtered		ES
RD-17		Primary	02/15/05	Cesium-137	1.22 U	---	1.22	Filtered		ES
RD-17		Primary	02/15/05	Cobalt-57	0.874 U	---	0.874	Filtered		ES
RD-17		Primary	02/15/05	Cobalt-60	1.26 U	---	1.26	Filtered		ES
RD-17		Primary	02/15/05	Europium-152	3.04 U	---	3.04	Filtered		ES
RD-17		Primary	02/15/05	Europium-154	3.71 U	---	3.71	Filtered		ES
RD-17		Primary	02/15/05	Manganese-54	1.18 U	---	1.18	Filtered		ES
RD-17		Primary	02/15/05	Sodium-22	1.21 U	---	1.21	Filtered		ES
RD-17		Primary	02/16/06	Cesium-134	1.88 U	---	1.88	Filtered		ES
RD-17		Primary	02/16/06	Cesium-137	1.48 U	---	1.48	Filtered		ES
RD-17		Primary	02/16/06	Cobalt-57	1.37 U	---	1.37	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-17		Primary	02/16/06	Cobalt-60	1.62 U	---	1.62	Filtered		ES
RD-17		Primary	02/16/06	Europium-152	4.05 U	---	4.05	Filtered		ES
RD-17		Primary	02/16/06	Europium-154	4.63 U	---	4.63	Filtered		ES
RD-17		Primary	02/16/06	Manganese-54	1.33 U	---	1.33	Filtered		ES
RD-17		Primary	02/16/06	Sodium-22	1.6 U	---	1.6	Filtered		ES
RD-17		Primary	02/06/07	Cesium-134	1.26 U	---	1.26	Filtered		ES
RD-17		Split	02/06/07	Cesium-134	0.118 U	0.79	1.38	Filtered		STL
RD-17		Primary	02/06/07	Cesium-137	0.992 U	---	0.992	Filtered		ES
RD-17		Split	02/06/07	Cesium-137	0.184 U	0.68	1.18	Filtered		STL
RD-17		Primary	02/06/07	Cobalt-57	0.599 U	---	0.599	Filtered		ES
RD-17		Split	02/06/07	Cobalt-57	2.93 U	3.2	5.43	Filtered		STL
RD-17		Primary	02/06/07	Cobalt-60	1.01 U	---	1.01	Filtered		ES
RD-17		Split	02/06/07	Cobalt-60	0.127 U	0.79	1.39	Filtered		STL
RD-17		Primary	02/06/07	Europium-152	2.67 U	---	2.67	Filtered		ES
RD-17		Split	02/06/07	Europium-152	0.95 U	1.7	3	Filtered		STL
RD-17		Primary	02/06/07	Europium-154	3.12 U	---	3.12	Filtered		ES
RD-17		Split	02/06/07	Europium-154	-0.0785 U	2.1	3.76	Filtered		STL
RD-17		Primary	02/06/07	Manganese-54	0.956 U	---	0.956	Filtered		ES
RD-17		Split	02/06/07	Manganese-54	0.564 U	0.73	1.3	Filtered		STL
RD-17		Primary	02/06/07	Sodium-22	1.06 U	---	1.06	Filtered		ES
RD-17		Split	02/06/07	Sodium-22	-0.0284 U	0.77	1.36	Filtered		STL
RD-17		Primary	02/22/08	Cesium-134	0.942 U	---	0.942	Filtered		ES
RD-17		Primary	02/22/08	Cesium-137	0.721 U	---	0.721	Filtered		ES
RD-17		Primary	02/22/08	Cobalt-57	0.444 U	---	0.444	Filtered		ES
RD-17		Primary	02/22/08	Cobalt-60	0.904 U	---	0.904	Filtered		ES
RD-17		Primary	02/22/08	Europium-152	1.98 U	---	1.98	Filtered		ES
RD-17		Primary	02/22/08	Europium-154	2.22 U	---	2.22	Filtered		ES
RD-17		Primary	02/22/08	Manganese-54	0.711 U	---	0.711	Filtered		ES
RD-17		Primary	02/22/08	Sodium-22	0.757 U	---	0.757	Filtered		ES
RD-18		Primary	10/26/89	Cesium-137	1.57 U	5.41	---	Filtered		UST
RD-18		Primary	12/08/90	Cesium-137	-0.728 U	5.83	10	Filtered		IT
RD-18		Primary	03/09/91	Cesium-137	4.72 U	3.69	10	Filtered		IT
RD-18		Primary	12/11/91	Cesium-137	1.31 U	4.87	10	Filtered		IT
RD-18		Primary	03/12/92	Cesium-137	0 U	---	---	Filtered		CEP
RD-19		Primary	10/26/89	Cesium-137	-2.32 U	5.09	---	Filtered		UST
RD-19		Primary	12/08/90	Cesium-137	-2.09 U	4.06	10	Filtered		IT
RD-19		Duplicate	12/08/90	Cesium-137	0.811 U	5.96	10	Filtered		IT
RD-19		Primary	03/08/91	Cesium-137	0.879 U	4.28	10	Filtered		IT
RD-19		Duplicate	03/08/91	Cesium-137	0.689 U	4.88	10	Filtered		IT
RD-19		Primary	12/11/91	Cesium-137	-5.66 U	6.12	10	Filtered		IT
RD-19		Primary	03/12/92	Cesium-137	0 U	---	---	Filtered		CEP
RD-20		Primary	10/17/89	Cesium-137	3.66 U	5.29	---	Filtered		UST
RD-20		Primary	10/31/89	Cesium-137	0.497 U	4.13	---	Unfiltered		UST
RD-20		Primary	12/07/90	Cesium-137	4.2 U	4.99	10	Filtered		IT
RD-20		Primary	12/10/90	Cesium-137	10 U	---	10	Filtered		IT

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-20		Primary	03/05/91	Cesium-137	1.88 U	5.18	10	Filtered		IT
RD-20		Primary	12/10/91	Cesium-137	0.922 U	3.26	10	Filtered		IT
RD-20		Primary	03/04/92	Cesium-137	0 U	---	---	Filtered		CEP
RD-21		Primary	10/31/89	Cesium-137	1 U	5.89	---	Filtered		UST
RD-21		Primary	12/03/90	Cesium-137	-3.42 U	6.57	10	Filtered		IT
RD-21		Primary	03/08/91	Cesium-137	1.11 U	4.52	10	Filtered		IT
RD-21		Primary	12/05/91	Cesium-137	2.05 U	4.98	10	Filtered		IT
RD-21		Primary	03/04/92	Cesium-137	0 U	---	---	Filtered		CEP
RD-21		Primary	03/06/93	Cesium-137	0 U	---	---	Filtered		CEP
RD-21		Primary	06/22/93	Cesium-137	0 U	---	---	Filtered		CEP
RD-21		Primary	08/06/93	Cesium-137	0 U	---	---	Filtered		CEP
RD-21		Primary	11/06/93	Antimony-125	5.16 U	---	5.16	Filtered		LAS
RD-21		Primary	11/06/93	Beryllium-7	23.3 U	---	23.3	Filtered		LAS
RD-21		Primary	11/06/93	Cesium-134	7.71 U	---	7.71	Filtered		LAS
RD-21		Primary	11/06/93	Cesium-137	3.82 U	---	3.82	Filtered		LAS
RD-21		Primary	11/06/93	Cobalt-60	3.22 U	---	3.22	Filtered		LAS
RD-21		Primary	11/06/93	Europium-152	7.52 U	---	7.52	Filtered		LAS
RD-21		Primary	11/06/93	Europium-154	4.82 U	---	4.82	Filtered		LAS
RD-21		Primary	11/06/93	Europium-155	7.68 U	---	7.68	Filtered		LAS
RD-21		Primary	11/06/93	Manganese-54	2.18 U	---	2.18	Filtered		LAS
RD-21		Primary	11/06/93	Ruthenium-106	14.4 U	---	14.4	Filtered		LAS
RD-21		Primary	11/06/93	Silver-110m	3.96 U	---	3.96	Filtered		LAS
RD-21		Primary	02/25/94	Cesium-137	0.2 U	---	2.3	Filtered		LAS
RD-21		Primary	02/25/94	Cobalt-57	-1.54 U	---	2.6	Filtered		LAS
RD-21		Primary	02/25/94	Cobalt-60	0.39 U	---	2.3	Filtered		LAS
RD-21		Primary	08/08/94	Cesium-134	0 U	---	6.3	Filtered		LAS
RD-21		Primary	08/08/94	Cesium-137	1.2 U	---	7.1	Filtered		LAS
RD-21		Primary	08/08/94	Cobalt-57	-0.4 U	---	3.5	Filtered		LAS
RD-21		Primary	08/08/94	Cobalt-60	-1.2 U	---	7.9	Filtered		LAS
RD-21		Primary	02/08/95	Cesium-134	2.4 U	3.8	5.9	Filtered		LAS
RD-21		Primary	02/08/95	Cesium-137	1.3 U	6.9	9.2	Filtered		LAS
RD-21		Primary	02/08/95	Cobalt-57	1.3 U	2.6	4.2	Filtered		LAS
RD-21		Primary	02/08/95	Cobalt-60	1 U	3.7	8.2	Filtered		LAS
RD-21		Primary	08/31/95	Cesium-134	-0.8 U	3.8	7.4	Filtered		LAS
RD-21		Primary	08/31/95	Cesium-137	-1 U	5.5	9.7	Filtered		LAS
RD-21		Primary	08/31/95	Cobalt-57	-0.6 U	3.1	5.2	Filtered		LAS
RD-21		Primary	08/31/95	Cobalt-60	-3.1 U	2.3	9.7	Filtered		LAS
RD-21		Primary	02/16/96	Cesium-134	-1.7 U	1.8	7.6	Filtered		LAS
RD-21		Primary	02/16/96	Cesium-137	-0.3 U	6.9	9.8	Filtered		LAS
RD-21		Primary	02/16/96	Cobalt-57	-2.5 U	2.5	4.6	Filtered		LAS
RD-21		Primary	02/16/96	Cobalt-60	-1 U	1.5	9.4	Filtered		LAS
RD-21		Primary	08/18/96	Cesium-134	2.3 U	3.5	6.8	Filtered		LAS
RD-21		Primary	08/18/96	Cesium-137	-4.9 U	4.2	12	Filtered		LAS
RD-21		Primary	08/18/96	Cobalt-57	-0.6 U	2	5	Filtered		LAS
RD-21		Primary	08/18/96	Cobalt-60	-0.4 U	1.6	11	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-21		Primary	02/06/97	Cesium-134	-4.8 U	3.1	8.6	Filtered		LAS
RD-21		Primary	02/06/97	Cesium-137	-0.6 U	5.6	9.4	Filtered		LAS
RD-21		Primary	02/06/97	Cobalt-57	-1.2 U	2.7	4.7	Filtered		LAS
RD-21		Primary	02/06/97	Cobalt-60	-1.3 U	4.5	7.1	Filtered		LAS
RD-21		Primary	02/09/98	Cesium-134	8.1 U	---	8.1	Filtered		TN
RD-21		Primary	02/09/98	Cesium-137	6.16 U	---	6.16	Filtered		TN
RD-21		Primary	02/09/98	Cobalt-57	3.66 U	---	3.66	Filtered		TN
RD-21		Primary	02/09/98	Cobalt-60	6.76 U	---	6.76	Filtered		TN
RD-21		Primary	02/16/99	Cesium-134	17 U	---	17	Filtered		TN
RD-21		Primary	02/16/99	Cesium-137	15.1 U	---	15.1	Filtered		TN
RD-21		Primary	02/16/99	Cobalt-57	9.51 U	---	9.51	Filtered		TN
RD-21		Primary	02/16/99	Cobalt-60	15.4 U	---	15.4	Filtered		TN
RD-21		Primary	03/15/00	Cesium-134	17.9 U	---	17.9	Filtered		TR
RD-21		Primary	03/15/00	Cesium-137	14.4 U	---	14.4	Filtered		TR
RD-21		Primary	03/15/00	Cobalt-57	8.3 U	---	8.3	Filtered		TR
RD-21		Primary	03/15/00	Cobalt-60	14.9 U	---	14.9	Filtered		TR
RD-21		Primary	10/24/01	Cesium-134	4.1 U	4.8	5	Filtered		DL
RD-21		Primary	10/24/01	Cesium-137	10 U	---	10	Filtered		DL
RD-21		Primary	10/24/01	Cobalt-57	10 U	---	10	Filtered		DL
RD-21		Primary	10/24/01	Cobalt-60	1.3 U	0.8	5	Filtered		DL
RD-21		Primary	03/06/02	Cesium-134	3 U	3	3	Filtered		DL
RD-21		Primary	03/06/02	Cesium-137	2 U	2	2	Filtered		DL
RD-21		Primary	03/06/02	Cobalt-57	3 U	3	3	Filtered		DL
RD-21		Primary	03/06/02	Cobalt-60	3 U	3	3	Filtered		DL
RD-21	Z2	Primary	02/25/03	Cesium-134	4.68 U	---	4.68	Filtered		ES
RD-21	Z2	Primary	02/25/03	Cesium-137	2.24 U	---	2.24	Filtered		ES
RD-21	Z2	Primary	02/25/03	Cobalt-57	1.34 U	---	1.34	Filtered		ES
RD-21	Z2	Primary	02/25/03	Cobalt-60	2.21 U	---	2.21	Filtered		ES
RD-21	Z2	Primary	11/04/04	Cesium-134	2.2 U	---	2.2	Filtered		ES
RD-21	Z2	Primary	11/04/04	Cesium-137	1.82 U	---	1.82	Filtered		ES
RD-21	Z2	Primary	11/04/04	Cobalt-57	1.33 U	---	1.33	Filtered		ES
RD-21	Z2	Primary	11/04/04	Cobalt-60	1.79 U	---	1.79	Filtered		ES
RD-21	Z2	Primary	11/04/04	Europium-152	4.89 U	---	4.89	Filtered		ES
RD-21	Z2	Primary	11/04/04	Europium-154	5.08 U	---	5.08	Filtered		ES
RD-21	Z2	Primary	11/04/04	Manganese-54	2.05 U	---	2.05	Filtered		ES
RD-21	Z2	Primary	11/04/04	Sodium-22	1.76 U	---	1.76	Filtered		ES
RD-21	Z2	Primary	02/16/05	Cesium-134	1.88 U	---	1.88	Filtered		ES
RD-21	Z2	Primary	02/16/05	Cesium-137	1.5 U	---	1.5	Filtered		ES
RD-21	Z2	Primary	02/16/05	Cobalt-57	0.922 U	---	0.922	Filtered		ES
RD-21	Z2	Primary	02/16/05	Cobalt-60	1.38 U	---	1.38	Filtered		ES
RD-21	Z2	Primary	02/16/05	Europium-152	4.04 U	---	4.04	Filtered		ES
RD-21	Z2	Primary	02/16/05	Europium-154	4.05 U	---	4.05	Filtered		ES
RD-21	Z2	Primary	02/16/05	Manganese-54	1.41 U	---	1.41	Filtered		ES
RD-21	Z2	Primary	02/16/05	Sodium-22	1.37 U	---	1.37	Filtered		ES
RD-21	Z2	Primary	02/16/06	Cesium-134	1.41 U	---	1.41	Filtered		ES
RD-21	Z2	Primary	02/16/06	Cesium-137	0.888 U	---	0.888	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-21	Z2	Primary	02/16/06	Cobalt-57	0.592 U	---	0.592	Filtered		ES
RD-21	Z2	Primary	02/16/06	Cobalt-60	0.939 U	---	0.939	Filtered		ES
RD-21	Z2	Primary	02/16/06	Europium-152	2.05 U	---	2.05	Filtered		ES
RD-21	Z2	Primary	02/16/06	Europium-154	2.32 U	---	2.32	Filtered		ES
RD-21	Z2	Primary	02/16/06	Manganese-54	0.814 U	---	0.814	Filtered		ES
RD-21	Z2	Primary	02/16/06	Sodium-22	0.8 U	---	0.8	Filtered		ES
RD-21	Z2	Primary	05/21/07	Cesium-134	0.716 U	---	0.716	Filtered		ES
RD-21	Z2	Primary	05/21/07	Cesium-137	0.54 U	---	0.54	Filtered		ES
RD-21	Z2	Primary	05/21/07	Cobalt-57	0.335 U	---	0.335	Filtered		ES
RD-21	Z2	Primary	05/21/07	Cobalt-60	0.611 U	---	0.611	Filtered		ES
RD-21	Z2	Primary	05/21/07	Europium-152	1.61 U	---	1.61	Filtered		ES
RD-21	Z2	Primary	05/21/07	Europium-154	1.6 U	---	1.6	Filtered		ES
RD-21	Z2	Primary	05/21/07	Manganese-54	0.521 U	---	0.521	Filtered		ES
RD-21	Z2	Primary	05/21/07	Sodium-22	0.549 U	---	0.549	Filtered		ES
RD-21	Z2	Primary	02/05/08	Cesium-134	1.41 U	---	1.41	Filtered		ES
RD-21	Z2	Primary	02/05/08	Cesium-137	1.15 U	---	1.15	Filtered		ES
RD-21	Z2	Primary	02/05/08	Cobalt-57	0.799 U	---	0.799	Filtered		ES
RD-21	Z2	Primary	02/05/08	Cobalt-60	1.22 U	---	1.22	Filtered		ES
RD-21	Z2	Primary	02/05/08	Europium-152	3.26 U	---	3.26	Filtered		ES
RD-21	Z2	Primary	02/05/08	Europium-154	3.7 U	---	3.7	Filtered		ES
RD-21	Z2	Primary	02/05/08	Manganese-54	1.28 U	---	1.28	Filtered		ES
RD-21	Z2	Primary	02/05/08	Sodium-22	1.26 U	---	1.26	Filtered		ES
RD-22		Primary	10/19/89	Cesium-137	1.41 U	4.47	---	Filtered		UST
RD-22		Primary	12/04/90	Cesium-137	-0.709 U	5.24	10	Filtered		IT
RD-22		Duplicate	12/04/90	Cesium-137	1.47 U	5.1	10	Filtered		IT
RD-22		Primary	03/11/91	Cesium-137	1.8 U	4.89	10	Filtered		IT
RD-22		Primary	12/06/91	Cesium-137	-6.37 U	5.53	10	Filtered		IT
RD-22		Primary	06/05/92	Cesium-137	0 U	---	---	Filtered		CEP
RD-22		Primary	03/20/93	Cesium-137	0 U	---	---	Filtered		CEP
RD-22		Primary	06/22/93	Cesium-137	0 U	---	---	Filtered		CEP
RD-22		Primary	08/05/93	Cesium-137	0 U	---	---	Filtered		CEP
RD-22		Primary	11/21/93	Antimony-125	5.4 U	---	5.4	Filtered		LAS
RD-22		Primary	11/21/93	Beryllium-7	33.6 U	---	33.6	Filtered		LAS
RD-22		Primary	11/21/93	Cesium-134	6.55 U	---	6.55	Filtered		LAS
RD-22		Primary	11/21/93	Cesium-137	4.12 U	---	4.12	Filtered		LAS
RD-22		Primary	11/21/93	Cobalt-60	2.72 U	---	2.72	Filtered		LAS
RD-22		Primary	11/21/93	Europium-152	6.02 U	---	6.02	Filtered		LAS
RD-22		Primary	11/21/93	Europium-154	4.21 U	---	4.21	Filtered		LAS
RD-22		Primary	11/21/93	Europium-155	6.62 U	---	6.62	Filtered		LAS
RD-22		Primary	11/21/93	Manganese-54	1.73 U	---	1.73	Filtered		LAS
RD-22		Primary	11/21/93	Ruthenium-106	34 U	---	34	Filtered		LAS
RD-22		Primary	11/21/93	Silver-110m	4.95 U	---	4.95	Filtered		LAS
RD-22		Primary	02/24/94	Cesium-137	0.8 U	---	2.4	Filtered		LAS
RD-22		Primary	02/24/94	Cobalt-57	0.7 U	---	2.4	Filtered		LAS
RD-22		Primary	02/24/94	Cobalt-60	-0.17 U	---	2.1	Filtered		LAS

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-22		Primary	08/09/94	Cesium-134	0 U	---	2.8	Filtered		LAS
RD-22		Primary	08/09/94	Cesium-137	0 U	---	3.1	Filtered		LAS
RD-22		Primary	08/09/94	Cobalt-57	0.7 U	---	2.8	Filtered		LAS
RD-22		Primary	08/09/94	Cobalt-60	0.5 U	---	3.2	Filtered		LAS
RD-22		Primary	02/17/95	Cesium-134	-2.5 U	2.2	8.3	Filtered		LAS
RD-22		Primary	02/17/95	Cesium-137	-1.1 U	5.9	10	Filtered		LAS
RD-22		Primary	02/17/95	Cobalt-57	-1.3 U	2.5	4.5	Filtered		LAS
RD-22		Primary	02/17/95	Cobalt-60	-1.7 U	3.6	9.6	Filtered		LAS
RD-22		Primary	08/29/95	Cesium-134	-3 U	2	8.2	Filtered		LAS
RD-22		Primary	08/29/95	Cesium-137	2.4 U	6.1	9.8	Filtered		LAS
RD-22		Primary	08/29/95	Cobalt-57	0 U	---	4.8	Filtered		LAS
RD-22		Primary	08/29/95	Cobalt-60	1.3 U	5.5	11	Filtered		LAS
RD-22		Primary	02/16/96	Cesium-134	0.5 U	1.6	3.2	Filtered		LAS
RD-22		Primary	02/16/96	Cesium-137	-0.2 U	2.2	4	Filtered		LAS
RD-22		Primary	02/16/96	Cobalt-57	-0.9 U	1.2	3.3	Filtered		LAS
RD-22		Primary	02/16/96	Cobalt-60	-1.3 U	1.3	4.5	Filtered		LAS
RD-22		Primary	08/18/96	Cesium-134	-1.9 U	2.6	6.9	Filtered		LAS
RD-22		Primary	08/18/96	Cesium-137	-0.9 U	4.6	8.6	Filtered		LAS
RD-22		Primary	08/18/96	Cobalt-57	-0.3 U	1.7	4.4	Filtered		LAS
RD-22		Primary	08/18/96	Cobalt-60	-0.3 U	3.8	9	Filtered		LAS
RD-22		Primary	02/26/97	Cesium-134	0 U	---	6.3	Filtered		LAS
RD-22		Primary	02/26/97	Cesium-137	-6.5 U	3.7	11	Filtered		LAS
RD-22		Primary	02/26/97	Cobalt-57	0.4 U	2.5	4.2	Filtered		LAS
RD-22		Primary	02/26/97	Cobalt-60	2.7 U	5.1	7.9	Filtered		LAS
RD-22		Primary	05/28/98	Cesium-134	16.4 U	---	16.4	Filtered		TN
RD-22		Primary	05/28/98	Cesium-137	14.4 U	---	14.4	Filtered		TN
RD-22		Primary	05/28/98	Cobalt-57	8.92 U	---	8.92	Filtered		TN
RD-22		Primary	05/28/98	Cobalt-60	17.3 U	---	17.3	Filtered		TN
RD-22		Primary	02/17/99	Cesium-134	9.12 U	---	9.12	Filtered		TN
RD-22		Primary	02/17/99	Cesium-137	5.78 U	---	5.78	Filtered		TN
RD-22		Primary	02/17/99	Cobalt-57	4.44 U	---	4.44	Filtered		TN
RD-22		Primary	02/17/99	Cobalt-60	6.58 U	---	6.58	Filtered		TN
RD-22		Primary	02/06/00	Cesium-134	15.6 U	---	15.6	Filtered		TR
RD-22		Primary	02/06/00	Cesium-137	13.6 U	---	13.6	Filtered		TR
RD-22		Primary	02/06/00	Cobalt-57	7.25 U	---	7.25	Filtered		TR
RD-22		Primary	02/06/00	Cobalt-60	13.6 U	---	13.6	Filtered		TR
RD-22		Primary	02/16/01	Cesium-134	8.09 U	---	8.09	Filtered		ES
RD-22		Primary	02/16/01	Cesium-137	5.57 U	---	5.57	Filtered		ES
RD-22		Primary	02/16/01	Cobalt-57	3.24 U	---	3.24	Filtered		ES
RD-22		Primary	02/16/01	Cobalt-60	6.08 U	---	6.08	Filtered		ES
RD-22		Primary	02/20/02	Cesium-134	5 U	3	5	Filtered		DL
RD-22		Primary	02/20/02	Cesium-137	5 U	3	5	Filtered		DL
RD-22		Primary	02/20/02	Cobalt-57	3 U	3	3	Filtered		DL
RD-22		Primary	02/20/02	Cobalt-60	5 U	3	5	Filtered		DL
RD-22	Z2	Primary	02/24/03	Cesium-134	1.6 U	---	1.6	Filtered		ES
RD-22	Z2	Primary	02/24/03	Cesium-137	1.26 U	---	1.26	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-22	Z2	Primary	02/24/03	Cobalt-57	0.756 U	---	0.756	Filtered		ES
RD-22	Z2	Primary	02/24/03	Cobalt-60	1.35 U	---	1.35	Filtered		ES
RD-22	Z2	Primary	11/12/04	Cesium-134	1.45 U	---	1.45	Filtered		ES
RD-22	Z2	Primary	11/12/04	Cesium-137	0.98 U	---	0.98	Filtered		ES
RD-22	Z2	Primary	11/12/04	Cobalt-57	0.641 U	---	0.641	Filtered		ES
RD-22	Z2	Primary	11/12/04	Cobalt-60	1.11 U	---	1.11	Filtered		ES
RD-22	Z2	Primary	11/12/04	Europium-152	2.61 U	---	2.61	Filtered		ES
RD-22	Z2	Primary	11/12/04	Europium-154	3.15 U	---	3.15	Filtered		ES
RD-22	Z2	Primary	11/12/04	Manganese-54	1.08 U	---	1.08	Filtered		ES
RD-22	Z2	Primary	11/12/04	Sodium-22	1.09 U	---	1.09	Filtered		ES
RD-22	Z2	Primary	02/17/05	Cesium-134	1.58 U	---	1.58	Filtered		ES
RD-22	Z2	Primary	02/17/05	Cesium-137	1.33 U	---	1.33	Filtered		ES
RD-22	Z2	Primary	02/17/05	Cobalt-57	0.56 U	---	0.56	Filtered		ES
RD-22	Z2	Primary	02/17/05	Cobalt-60	1.44 U	---	1.44	Filtered		ES
RD-22	Z2	Primary	02/17/05	Europium-152	3.44 U	---	3.44	Filtered		ES
RD-22	Z2	Primary	02/17/05	Europium-154	4.3 U	---	4.3	Filtered		ES
RD-22	Z2	Primary	02/17/05	Manganese-54	1.28 U	---	1.28	Filtered		ES
RD-22	Z2	Primary	02/17/05	Sodium-22	1.46 U	---	1.46	Filtered		ES
RD-22	Z2	Primary	02/15/06	Cesium-134	1.3 U	---	1.3	Filtered		ES
RD-22	Z2	Primary	02/15/06	Cesium-137	1.03 U	---	1.03	Filtered		ES
RD-22	Z2	Primary	02/15/06	Cobalt-57	0.72 U	---	0.72	Filtered		ES
RD-22	Z2	Primary	02/15/06	Cobalt-60	1.18 U	---	1.18	Filtered		ES
RD-22	Z2	Primary	02/15/06	Europium-152	2.62 U	---	2.62	Filtered		ES
RD-22	Z2	Primary	02/15/06	Europium-154	3.28 U	---	3.28	Filtered		ES
RD-22	Z2	Primary	02/15/06	Manganese-54	1.18 U	---	1.18	Filtered		ES
RD-22	Z2	Primary	02/15/06	Sodium-22	1.14 U	---	1.14	Filtered		ES
RD-22	Z2	Primary	02/07/07	Cesium-134	1.43 U	---	1.43	Filtered		ES
RD-22	Z2	Primary	02/07/07	Cesium-137	2.09 U	---	2.09	Filtered		ES
RD-22	Z2	Primary	02/07/07	Cobalt-57	0.756 U	---	0.756	Filtered		ES
RD-22	Z2	Primary	02/07/07	Cobalt-60	1.24 U	---	1.24	Filtered		ES
RD-22	Z2	Primary	02/07/07	Europium-152	3.09 U	---	3.09	Filtered		ES
RD-22	Z2	Primary	02/07/07	Europium-154	3.49 U	---	3.49	Filtered		ES
RD-22	Z2	Primary	02/07/07	Manganese-54	1.12 U	---	1.12	Filtered		ES
RD-22	Z2	Primary	02/07/07	Sodium-22	1.19 U	---	1.19	Filtered		ES
RD-22	Z2	Primary	02/05/08	Cesium-134	0.976 U	---	0.976	Filtered		ES
RD-22	Z2	Primary	02/05/08	Cesium-137	0.688 U	---	0.688	Filtered		ES
RD-22	Z2	Primary	02/05/08	Cobalt-57	0.385 U	---	0.385	Filtered		ES
RD-22	Z2	Primary	02/05/08	Cobalt-60	0.85 U	---	0.85	Filtered		ES
RD-22	Z2	Primary	02/05/08	Europium-152	1.95 U	---	1.95	Filtered		ES
RD-22	Z2	Primary	02/05/08	Europium-154	2.12 U	---	2.12	Filtered		ES
RD-22	Z2	Primary	02/05/08	Manganese-54	0.692 U	---	0.692	Filtered		ES
RD-22	Z2	Primary	02/05/08	Sodium-22	0.72 U	---	0.72	Filtered		ES
RD-23		Primary	11/01/89	Cesium-137	-1.1 U	4.93	---	Filtered		UST
RD-23		Primary	06/29/90	Cesium-137	1.69 U	2.24	---	Filtered		UST
RD-23		Primary	12/05/90	Cesium-137	1.81 U	5.31	10	Filtered		IT

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-23		Primary	03/11/91	Cesium-137	4.7 U	4.38	10	Filtered		IT
RD-23		Duplicate	03/11/91	Cesium-137	104	4.91	10	Filtered		IT
RD-23		Primary	12/05/91	Cesium-137	0.952 U	4.36	10	Filtered		IT
RD-23		Primary	03/04/92	Cesium-137	0 U	---	---	Filtered		CEP
RD-23		Primary	03/21/93	Cesium-137	0 U	---	---	Filtered		CEP
RD-23		Primary	06/23/93	Cesium-137	0 U	---	---	Filtered		CEP
RD-23		Primary	08/06/93	Cesium-137	0 U	---	---	Filtered		CEP
RD-23		Primary	11/06/93	Antimony-125	3.74 U	---	3.74	Filtered		LAS
RD-23		Primary	11/06/93	Beryllium-7	11.9 U	---	11.9	Filtered		LAS
RD-23		Primary	11/06/93	Cesium-134	2.78 U	---	2.78	Filtered		LAS
RD-23		Primary	11/06/93	Cesium-137	1.39 U	---	1.39	Filtered		LAS
RD-23		Primary	11/06/93	Cobalt-60	0.906 U	---	0.906	Filtered		LAS
RD-23		Primary	11/06/93	Europium-152	1.5 U	---	1.5	Filtered		LAS
RD-23		Primary	11/06/93	Europium-154	3 U	---	3	Filtered		LAS
RD-23		Primary	11/06/93	Europium-155	5.09 U	---	5.09	Filtered		LAS
RD-23		Primary	11/06/93	Manganese-54	1.15 U	---	1.15	Filtered		LAS
RD-23		Primary	11/06/93	Ruthenium-106	12.8 U	---	12.8	Filtered		LAS
RD-23		Primary	11/06/93	Silver-110m	1.53 U	---	1.53	Filtered		LAS
RD-23		Primary	02/25/94	Cesium-137	-1.3 U	---	2.8	Filtered		LAS
RD-23		Primary	02/25/94	Cobalt-57	-0.34 U	---	2.5	Filtered		LAS
RD-23		Primary	02/25/94	Cobalt-60	0.23 U	---	2.4	Filtered		LAS
RD-23		Primary	08/08/94	Cesium-134	-0.7 U	---	3.9	Filtered		LAS
RD-23		Primary	08/08/94	Cesium-137	-0.8 U	---	5.1	Filtered		LAS
RD-23		Primary	08/08/94	Cobalt-57	-0.9 U	---	4	Filtered		LAS
RD-23		Primary	08/08/94	Cobalt-60	-0.5 U	---	4.5	Filtered		LAS
RD-23		Primary	11/22/94	Cesium-134	0 U	---	---	Filtered		LAS
RD-23		Primary	11/22/94	Cesium-137	0 U	---	---	Filtered		LAS
RD-23		Primary	11/22/94	Cobalt-57	0 U	---	---	Filtered		LAS
RD-23		Primary	11/22/94	Cobalt-60	0 U	---	---	Filtered		LAS
RD-23		Primary	02/05/95	Cesium-134	-0.8 U	3.8	8.4	Filtered		LAS
RD-23		Primary	02/05/95	Cesium-137	-0.1 U	6.5	9	Filtered		LAS
RD-23		Primary	02/05/95	Cobalt-57	0.5 U	2.7	4.5	Filtered		LAS
RD-23		Primary	02/05/95	Cobalt-60	-1.9 U	2.6	11	Filtered		LAS
RD-23		Primary	08/03/95	Cesium-134	1.8 U	3.3	6.2	Filtered		LAS
RD-23		Primary	08/03/95	Cesium-137	-1.8 U	4.6	8.9	Filtered		LAS
RD-23		Primary	08/03/95	Cobalt-57	1 U	2.6	4.3	Filtered		LAS
RD-23		Primary	08/03/95	Cobalt-60	-1.1 U	2.8	9.8	Filtered		LAS
RD-23		Primary	02/16/96	Cesium-134	-0.3 U	1.6	3.5	Filtered		LAS
RD-23		Primary	02/16/96	Cesium-137	-1.8 U	2.3	4.4	Filtered		LAS
RD-23		Primary	02/16/96	Cobalt-57	-0.6 U	1.4	3.5	Filtered		LAS
RD-23		Primary	02/16/96	Cobalt-60	0.6 U	1.7	3.3	Filtered		LAS
RD-23		Primary	08/18/96	Cesium-134	-0.9 U	3.1	7.2	Filtered		LAS
RD-23		Primary	08/18/96	Cesium-137	-2.1 U	3.1	9.7	Filtered		LAS
RD-23		Primary	08/18/96	Cobalt-57	-1.6 U	1.7	4.6	Filtered		LAS
RD-23		Primary	08/18/96	Cobalt-60	-0.2 U	3.1	12	Filtered		LAS
RD-23		Primary	02/27/97	Cesium-134	-0.1 U	3.4	7.9	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-23		Primary	02/27/97	Cesium-137	1.9 U	6.2	8	Filtered		LAS
RD-23		Primary	02/27/97	Cobalt-57	0.5 U	3.4	4.6	Filtered		LAS
RD-23		Primary	02/27/97	Cobalt-60	1.3 U	2.9	6.2	Filtered		LAS
RD-23		Primary	02/07/98	Cesium-134	8.14 U	---	8.14	Filtered		TN
RD-23		Primary	02/07/98	Cesium-137	5.98 U	---	5.98	Filtered		TN
RD-23		Primary	02/07/98	Cobalt-57	4.1 U	---	4.1	Filtered		TN
RD-23		Primary	02/07/98	Cobalt-60	7.92 U	---	7.92	Filtered		TN
RD-23		Primary	02/08/99	Cesium-134	16.9 U	---	16.9	Filtered		TN
RD-23		Primary	02/08/99	Cesium-137	13.3 U	---	13.3	Filtered		TN
RD-23		Primary	02/08/99	Cobalt-57	6.21 U	---	6.21	Filtered		TN
RD-23		Primary	02/08/99	Cobalt-60	21.2 U	---	21.2	Filtered		TN
RD-23		Primary	02/05/00	Cesium-134	7.04 U	---	7.04	Filtered		TR
RD-23		Primary	02/05/00	Cesium-137	5.33 U	---	5.33	Filtered		TR
RD-23		Primary	02/05/00	Cobalt-57	3.08 U	---	3.08	Filtered		TR
RD-23		Primary	02/05/00	Cobalt-60	5.86 U	---	5.86	Filtered		TR
RD-23		Primary	10/25/01	Cesium-134	5 U	---	5	Filtered		DL
RD-23		Primary	10/25/01	Cesium-137	10 U	---	10	Filtered		DL
RD-23		Primary	10/25/01	Cobalt-57	14 U	---	14	Filtered		DL
RD-23		Primary	10/25/01	Cobalt-60	1.4 U	2	6	Filtered		DL
RD-23		Primary	03/01/02	Cesium-134	3 U	1	3	Filtered		DL
RD-23		Primary	03/01/02	Cesium-137	3 U	1	3	Filtered		DL
RD-23		Primary	03/01/02	Cobalt-57	5 U	3	5	Filtered		DL
RD-23		Primary	03/01/02	Cobalt-60	5 U	3	5	Filtered		DL
RD-23	Z1	Primary	02/26/03	Cesium-134	3.19 U	---	3.19	Filtered		ES
RD-23	Z1	Primary	02/26/03	Cesium-137	2.8 U	---	2.8	Filtered		ES
RD-23	Z1	Primary	02/26/03	Cobalt-57	1.74 U	---	1.74	Filtered		ES
RD-23	Z1	Primary	02/26/03	Cobalt-60	2.97 U	---	2.97	Filtered		ES
RD-23	Z2	Primary	11/03/04	Cesium-134	2.72 U	---	2.72	Filtered		ES
RD-23	Z2	Primary	11/03/04	Cesium-137	2.13 U	---	2.13	Filtered		ES
RD-23	Z2	Primary	11/03/04	Cobalt-57	1.46 U	---	1.46	Filtered		ES
RD-23	Z2	Primary	11/03/04	Cobalt-60	2.37 U	---	2.37	Filtered		ES
RD-23	Z2	Primary	11/03/04	Europium-152	5.07 U	---	5.07	Filtered		ES
RD-23	Z2	Primary	11/03/04	Europium-154	6.27 U	---	6.27	Filtered		ES
RD-23	Z2	Primary	11/03/04	Manganese-54	2.41 U	---	2.41	Filtered		ES
RD-23	Z2	Primary	11/03/04	Sodium-22	2.17 U	---	2.17	Filtered		ES
RD-23	Z2	Primary	02/14/05	Cesium-134	1.33 U	---	1.33	Filtered		ES
RD-23	Z2	Primary	02/14/05	Cesium-137	1.17 U	---	1.17	Filtered		ES
RD-23	Z2	Primary	02/14/05	Cobalt-57	0.825 U	---	0.825	Filtered		ES
RD-23	Z2	Primary	02/14/05	Cobalt-60	1.32 U	---	1.32	Filtered		ES
RD-23	Z2	Primary	02/14/05	Europium-152	3.1 U	---	3.1	Filtered		ES
RD-23	Z2	Primary	02/14/05	Europium-154	3.48 U	---	3.48	Filtered		ES
RD-23	Z2	Primary	02/14/05	Manganese-54	1.17 U	---	1.17	Filtered		ES
RD-23	Z2	Primary	02/14/05	Sodium-22	1.18 U	---	1.18	Filtered		ES
RD-23	Z3	Primary	02/17/06	Cesium-134	3.09 U	---	3.09	Filtered		ES
RD-23	Z3	Primary	02/17/06	Cesium-137	1.53 U	---	1.53	Filtered		ES
RD-23	Z3	Primary	02/17/06	Cobalt-57	1.43 U	---	1.43	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-23	Z3	Primary	02/17/06	Cobalt-60	1.58 U	---	1.58	Filtered		ES
RD-23	Z3	Primary	02/17/06	Europium-152	4.2 U	---	4.2	Filtered		ES
RD-23	Z3	Primary	02/17/06	Europium-154	4.76 U	---	4.76	Filtered		ES
RD-23	Z3	Primary	02/17/06	Manganese-54	1.66 U	---	1.66	Filtered		ES
RD-23	Z3	Primary	02/17/06	Sodium-22	1.64 U	---	1.64	Filtered		ES
RD-23	Z3	Primary	02/07/07	Cesium-134	0.718 U	---	0.718	Filtered		ES
RD-23	Z3	Primary	02/07/07	Cesium-137	0.544 U	---	0.544	Filtered		ES
RD-23	Z3	Primary	02/07/07	Cobalt-57	0.329 U	---	0.329	Filtered		ES
RD-23	Z3	Primary	02/07/07	Cobalt-60	0.642 U	---	0.642	Filtered		ES
RD-23	Z3	Primary	02/07/07	Europium-152	1.52 U	---	1.52	Filtered		ES
RD-23	Z3	Primary	02/07/07	Europium-154	1.7 U	---	1.7	Filtered		ES
RD-23	Z3	Primary	02/07/07	Manganese-54	0.535 U	---	0.535	Filtered		ES
RD-23	Z3	Primary	02/07/07	Sodium-22	0.577 U	---	0.577	Filtered		ES
RD-23	Z3	Primary	02/06/08	Cesium-134	1.79 U	---	1.79	Filtered		ES
RD-23	Z3	Primary	02/06/08	Cesium-137	1.16 U	---	1.16	Filtered		ES
RD-23	Z3	Primary	02/06/08	Cobalt-57	0.901 U	---	0.901	Filtered		ES
RD-23	Z3	Primary	02/06/08	Cobalt-60	1.24 U	---	1.24	Filtered		ES
RD-23	Z3	Primary	02/06/08	Europium-152	3.14 U	---	3.14	Filtered		ES
RD-23	Z3	Primary	02/06/08	Europium-154	3.34 U	---	3.34	Filtered		ES
RD-23	Z3	Primary	02/06/08	Manganese-54	1.25 U	---	1.25	Filtered		ES
RD-23	Z3	Primary	02/06/08	Sodium-22	1.14 U	---	1.14	Filtered		ES
RD-24		Primary	09/12/89	Cesium-137	-1.71 U	4.63	---	Filtered		UST
RD-24		Primary	09/12/89	Cesium-137	1.21 U	4.2	---	Unfiltered		UST
RD-24		Split	09/12/89	Cesium-137	-18 U	---	---	Filtered		TMA
RD-24		Split	09/12/89	Cesium-137	-10 U	---	---	Unfiltered		TMA
RD-24		Primary	09/12/89	Cobalt-60	4.27 U	5.15	---	Filtered		UST
RD-24		Primary	09/12/89	Cobalt-60	1.87 U	6.95	---	Unfiltered		UST
RD-24		Primary	10/17/89	Cesium-137	-0.177 U	4.39	---	Filtered		UST
RD-24		Primary	10/31/89	Cesium-137	2.82 U	5.95	---	Unfiltered		UST
RD-24		Primary	12/05/90	Cesium-137	1.49 U	4.55	10	Filtered		IT
RD-24		Primary	03/06/91	Cesium-137	1.47 U	5.08	10	Filtered		IT
RD-24		Primary	12/11/91	Cesium-137	2.52 U	4.37	10	Filtered		IT
RD-24		Primary	03/06/92	Cesium-137	0 U	---	---	Filtered		CEP
RD-24		Primary	02/23/94	Cesium-137	-0.4 U	---	2.3	Filtered		LAS
RD-24		Primary	02/23/94	Cobalt-57	-0.52 U	---	2.4	Filtered		LAS
RD-24		Primary	02/23/94	Cobalt-60	-0.45 U	---	2.1	Filtered		LAS
RD-24		Primary	08/08/94	Cesium-134	-1.1 U	---	6.3	Filtered		LAS
RD-24		Primary	08/08/94	Cesium-137	2.9 U	---	7.9	Filtered		LAS
RD-24		Primary	08/08/94	Cobalt-57	-1.6 U	---	4	Filtered		LAS
RD-24		Primary	08/08/94	Cobalt-60	-0.4 U	---	8.5	Filtered		LAS
RD-24		Primary	02/16/95	Cesium-134	-2.8 U	2.4	9.1	Filtered		LAS
RD-24		Primary	02/16/95	Cesium-137	4.4 U	5.6	8.5	Filtered		LAS
RD-24		Primary	02/16/95	Cobalt-57	1.6 U	2.6	4.2	Filtered		LAS
RD-24		Primary	02/16/95	Cobalt-60	6 U	2.8	12	Filtered		LAS
RD-24		Primary	02/07/96	Cesium-134	-0.7 U	2.4	7.5	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-24		Primary	02/07/96	Cesium-137	-1 U	6.4	9.4	Filtered		LAS
RD-24		Primary	02/07/96	Cobalt-57	0.8 U	2	10	Filtered		LAS
RD-24		Primary	02/07/96	Cobalt-60	-2.4 U	2.4	10	Filtered		LAS
RD-24		Primary	02/07/97	Cesium-134	0.6 U	4.2	8.5	Filtered		LAS
RD-24		Primary	02/07/97	Cesium-137	-5.9 U	5.2	9.9	Filtered		LAS
RD-24		Primary	02/07/97	Cobalt-57	0 U	---	5.1	Filtered		LAS
RD-24		Primary	02/07/97	Cobalt-60	-2.5 U	2.8	9.2	Filtered		LAS
RD-24		Primary	02/18/98	Cesium-134	7.53 U	---	7.53	Filtered		TN
RD-24		Primary	02/18/98	Cesium-137	6.06 U	---	6.06	Filtered		TN
RD-24		Primary	02/18/98	Cobalt-57	3.9 U	---	3.9	Filtered		TN
RD-24		Primary	02/18/98	Cobalt-60	6.67 U	---	6.67	Filtered		TN
RD-24		Primary	05/05/98	Cesium-134	16.8 U	---	16.8	Filtered		TN
RD-24		Primary	05/05/98	Cesium-137	14.1 U	---	14.1	Filtered		TN
RD-24		Primary	05/05/98	Cobalt-57	6.48 U	---	6.48	Filtered		TN
RD-24		Primary	05/05/98	Cobalt-60	19.2 U	---	19.2	Filtered		TN
RD-24		Primary	02/02/99	Cesium-134	15.6 U	---	15.6	Filtered		TN
RD-24		Primary	02/02/99	Cesium-137	14.4 U	---	14.4	Filtered		TN
RD-24		Primary	02/02/99	Cobalt-57	9.09 U	---	9.09	Filtered		TN
RD-24		Primary	02/02/99	Cobalt-60	14.5 U	---	14.5	Filtered		TN
RD-24		Primary	08/11/99	Cesium-134	14.3 U	---	14.3	Filtered		TN
RD-24		Primary	08/11/99	Cesium-137	11.1 U	---	11.1	Filtered		TN
RD-24		Primary	08/11/99	Cobalt-57	9.55 U	---	9.55	Filtered		TN
RD-24		Primary	08/11/99	Cobalt-60	13.6 U	---	13.6	Filtered		TN
RD-24		Primary	02/03/00	Cesium-134	23.6 U	---	23.6	Filtered		TR
RD-24		Primary	02/03/00	Cesium-137	19.4 U	---	19.4	Filtered		TR
RD-24		Primary	02/03/00	Cobalt-57	7.82 U	---	7.82	Filtered		TR
RD-24		Primary	02/03/00	Cobalt-60	26.3 U	---	26.3	Filtered		TR
RD-24		Primary	08/04/00	Cesium-134	14.3 U	---	14.3	Filtered		TR
RD-24		Primary	08/04/00	Cesium-137	12 U	---	12	Filtered		TR
RD-24		Primary	08/04/00	Cobalt-57	8.02 U	---	8.02	Filtered		TR
RD-24		Primary	08/04/00	Cobalt-60	13.2 U	---	13.2	Filtered		TR
RD-24		Primary	02/06/01	Cesium-134	17.3 U	---	17.3	Filtered		ES
RD-24		Primary	02/06/01	Cesium-137	12.5 U	---	12.5	Filtered		ES
RD-24		Primary	02/06/01	Cobalt-57	5.23 U	---	5.23	Filtered		ES
RD-24		Primary	02/06/01	Cobalt-60	14.2 U	---	14.2	Filtered		ES
RD-24		Primary	10/25/01	Cesium-134	5 U	---	5	Filtered		DL
RD-24		Primary	10/25/01	Cesium-137	10 U	---	10	Filtered		DL
RD-24		Primary	10/25/01	Cobalt-57	0.8 U	2.7	4.5	Filtered		DL
RD-24		Primary	10/25/01	Cobalt-60	5 U	---	5	Filtered		DL
RD-24		Primary	02/25/02	Cesium-134	5 U	3	5	Filtered		DL
RD-24		Primary	02/25/02	Cesium-137	5 U	3	5	Filtered		DL
RD-24		Primary	02/25/02	Cobalt-57	3 U	3	3	Filtered		DL
RD-24		Primary	02/25/02	Cobalt-60	5 U	3	5	Filtered		DL
RD-24		Primary	11/06/02	Cesium-134	4.76 U	---	4.76	Filtered		ES
RD-24		Primary	11/06/02	Cesium-137	3.98 U	---	3.98	Filtered		ES
RD-24		Primary	11/06/02	Cobalt-57	3.28 U	---	3.28	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-24		Primary	11/06/02	Cobalt-60	4.17 U	---	4.17	Filtered		ES
RD-24		Primary	02/12/03	Cesium-134	8.2 U	---	8.2	Filtered		ES
RD-24		Primary	02/12/03	Cesium-137	5.61 U	---	5.61	Filtered		ES
RD-24		Primary	02/12/03	Cobalt-57	3.02 U	---	3.02	Filtered		ES
RD-24		Primary	02/12/03	Cobalt-60	5.52 U	---	5.52	Filtered		ES
RD-24		Split	11/14/03	Cesium-134	0.434 U	1.78	3.07	Filtered		STL
RD-24		Split	11/14/03	Cesium-137	-0.402 U	1.57	2.67	Filtered		STL
RD-24		Split	11/14/03	Cobalt-57	-1.32 U	7.52	12.5	Filtered		STL
RD-24		Split	11/14/03	Cobalt-60	1.22 U	1.85	3.31	Filtered		STL
RD-24		Primary	11/14/03	Cesium-134	9.2 U	---	9.2	Filtered		ES
RD-24		Primary	11/14/03	Cesium-137	6.76 U	---	6.76	Filtered		ES
RD-24		Primary	11/14/03	Cobalt-57	3.93 U	---	3.93	Filtered		ES
RD-24		Primary	11/14/03	Cobalt-60	7.69 U	---	7.69	Filtered		ES
RD-24		Primary	02/23/04	Cesium-134	7.16 U	---	7.16	Filtered		ES
RD-24		Primary	02/23/04	Cesium-137	6.39 U	---	6.39	Filtered		ES
RD-24		Primary	02/23/04	Cobalt-57	4.36 U	---	4.36	Filtered		ES
RD-24		Primary	02/23/04	Cobalt-60	6.16 U	---	6.16	Filtered		ES
RD-24		Primary	08/26/04	Cesium-134	10.4 U	---	10.4	Filtered		ES
RD-24		Primary	08/26/04	Cesium-137	8.62 U	---	8.62	Filtered		ES
RD-24		Primary	08/26/04	Cobalt-57	3.89 U	---	3.89	Filtered		ES
RD-24		Primary	08/26/04	Cobalt-60	9.68 U	---	9.68	Filtered		ES
RD-24		Primary	02/24/05	Cesium-134	1.78 U	---	1.78	Filtered		ES
RD-24		Primary	02/24/05	Cesium-137	1.56 U	---	1.56	Filtered		ES
RD-24		Primary	02/24/05	Cobalt-57	0.944 U	---	0.944	Filtered		ES
RD-24		Primary	02/24/05	Cobalt-60	1.41 U	---	1.41	Filtered		ES
RD-24		Primary	02/24/05	Europium-152	3.64 U	---	3.64	Filtered		ES
RD-24		Primary	02/24/05	Europium-154	4.76 U	---	4.76	Filtered		ES
RD-24		Primary	02/24/05	Manganese-54	1.49 U	---	1.49	Filtered		ES
RD-24		Primary	02/24/05	Sodium-22	1.63 U	---	1.63	Filtered		ES
RD-24		Primary	09/06/05	Cesium-134	1.2 U	---	1.2	Filtered		ES
RD-24		Primary	09/06/05	Cesium-137	0.944 U	---	0.944	Filtered		ES
RD-24		Primary	09/06/05	Cobalt-57	0.748 U	---	0.748	Filtered		ES
RD-24		Primary	09/06/05	Cobalt-60	0.808 U	---	0.808	Filtered		ES
RD-24		Primary	09/06/05	Europium-152	2.88 U	---	2.88	Filtered		ES
RD-24		Primary	09/06/05	Europium-154	2.76 U	---	2.76	Filtered		ES
RD-24		Primary	09/06/05	Manganese-54	0.971 U	---	0.971	Filtered		ES
RD-24		Primary	09/06/05	Sodium-22	0.957 U	---	0.957	Filtered		ES
RD-24		Primary	02/15/06	Cesium-134	1.84 U	---	1.84	Filtered		ES
RD-24		Primary	02/15/06	Cesium-137	1.58 U	---	1.58	Filtered		ES
RD-24		Primary	02/15/06	Cobalt-57	1.41 U	---	1.41	Filtered		ES
RD-24		Primary	02/15/06	Cobalt-60	1.56 U	---	1.56	Filtered		ES
RD-24		Primary	02/15/06	Europium-152	4.01 U	---	4.01	Filtered		ES
RD-24		Primary	02/15/06	Europium-154	4.93 U	---	4.93	Filtered		ES
RD-24		Primary	02/15/06	Manganese-54	1.58 U	---	1.58	Filtered		ES
RD-24		Primary	02/15/06	Sodium-22	1.71 U	---	1.71	Filtered		ES
RD-24		Primary	08/10/06	Cesium-134	1.91 U	---	1.91	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-24		Primary	08/10/06	Cesium-137	1.55 U	---	1.55	Filtered		ES
RD-24		Primary	08/10/06	Cobalt-57	1.12 U	---	1.12	Filtered		ES
RD-24		Primary	08/10/06	Cobalt-60	1.66 U	---	1.66	Filtered		ES
RD-24		Primary	08/10/06	Europium-152	4.43 U	---	4.43	Filtered		ES
RD-24		Primary	08/10/06	Europium-154	4.86 U	---	4.86	Filtered		ES
RD-24		Primary	08/10/06	Manganese-54	1.52 U	---	1.52	Filtered		ES
RD-24		Primary	08/10/06	Sodium-22	1.65 U	---	1.65	Filtered		ES
RD-24		Primary	05/24/07	Cesium-134	1.88 U	---	1.88	Filtered		ES
RD-24		Primary	05/24/07	Cesium-137	1.2 U	---	1.2	Filtered		ES
RD-24		Primary	05/24/07	Cobalt-57	0.822 U	---	0.822	Filtered		ES
RD-24		Primary	05/24/07	Cobalt-60	1.22 U	---	1.22	Filtered		ES
RD-24		Primary	05/24/07	Europium-152	3.39 U	---	3.39	Filtered		ES
RD-24		Primary	05/24/07	Europium-154	3.57 U	---	3.57	Filtered		ES
RD-24		Primary	05/24/07	Manganese-54	1.12 U	---	1.12	Filtered		ES
RD-24		Primary	05/24/07	Sodium-22	1.22 U	---	1.22	Filtered		ES
RD-24		Primary	08/08/07	Cesium-134	1.01 U	---	1.01	Filtered		ES
RD-24		Primary	08/08/07	Cesium-137	1.27 U	---	1.27	Filtered		ES
RD-24		Primary	08/08/07	Cobalt-57	0.605 U	---	0.605	Filtered		ES
RD-24		Primary	08/08/07	Cobalt-60	0.789 U	---	0.789	Filtered		ES
RD-24		Primary	08/08/07	Europium-152	2.34 U	---	2.34	Filtered		ES
RD-24		Primary	08/08/07	Europium-154	2.21 U	---	2.21	Filtered		ES
RD-24		Primary	08/08/07	Manganese-54	0.778 U	---	0.778	Filtered		ES
RD-24		Primary	08/08/07	Sodium-22	0.755 U	---	0.755	Filtered		ES
RD-24		Primary	02/13/08	Cesium-134	1.89 U	---	1.89	Filtered		ES
RD-24		Primary	02/13/08	Cesium-137	0.633 U	---	0.633	Filtered		ES
RD-24		Primary	02/13/08	Cobalt-57	0.512 U	---	0.512	Filtered		ES
RD-24		Primary	02/13/08	Cobalt-60	0.593 U	---	0.593	Filtered		ES
RD-24		Primary	02/13/08	Europium-152	2.03 U	---	2.03	Filtered		ES
RD-24		Primary	02/13/08	Europium-154	1.54 U	---	1.54	Filtered		ES
RD-24		Primary	02/13/08	Manganese-54	0.606 U	---	0.606	Filtered		ES
RD-24		Primary	02/13/08	Sodium-22	0.522 U	---	0.522	Filtered		ES
RD-25		Primary	09/12/89	Cesium-137	-1.43 U	4.93	---	Filtered		UST
RD-25		Primary	09/12/89	Cesium-137	3.76 U	5.52	---	Unfiltered		UST
RD-25		Split	09/12/89	Cesium-137	-10 U	---	---	Filtered		TMA
RD-25		Split	09/12/89	Cesium-137	-9 U	---	---	Unfiltered		TMA
RD-25		Primary	09/12/89	Cobalt-60	0.31 U	4.57	---	Filtered		UST
RD-25		Primary	09/12/89	Cobalt-60	2.63 U	5.65	---	Unfiltered		UST
RD-25		Primary	10/31/89	Cesium-137	4.7 U	5.09	---	Unfiltered		UST
RD-25		Primary	12/05/90	Cesium-137	-0.971 U	5.08	10	Filtered		IT
RD-25		Primary	03/06/91	Cesium-137	-1.34 U	4.58	10	Filtered		IT
RD-25		Primary	12/10/91	Cesium-137	2.36 U	5.26	10	Filtered		IT
RD-25		Primary	03/06/92	Cesium-137	0 U	---	---	Filtered		CEP
RD-25		Primary	02/28/94	Cesium-137	0.1 U	---	2.5	Filtered		LAS
RD-25		Primary	02/28/94	Cobalt-57	1.1 U	---	2.4	Filtered		LAS
RD-25		Primary	02/28/94	Cobalt-60	-0.46 U	---	2.7	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-25		Primary	08/17/94	Cesium-134	-5 U	---	25	Filtered		LAS
RD-25		Primary	08/17/94	Cesium-137	3 U	---	27	Filtered		LAS
RD-25		Primary	08/17/94	Cobalt-57	0 U	---	18	Filtered		LAS
RD-25		Primary	08/17/94	Cobalt-60	4 U	---	26	Filtered		LAS
RD-25		Primary	02/09/95	Cesium-134	1.7 U	3.6	5.6	Filtered		LAS
RD-25		Primary	02/09/95	Cesium-137	2.3 U	6.8	8.8	Filtered		LAS
RD-25		Primary	02/09/95	Cobalt-57	0.1 U	2.7	4.6	Filtered		LAS
RD-25		Primary	02/09/95	Cobalt-60	2.2 U	3.7	11	Filtered		LAS
RD-25		Primary	08/18/95	Cesium-134	-2.6 U	2.6	6.1	Filtered		LAS
RD-25		Primary	08/18/95	Cesium-137	-3.1 U	5.6	10	Filtered		LAS
RD-25		Primary	08/18/95	Cobalt-57	-0.5 U	1.7	4.6	Filtered		LAS
RD-25		Primary	08/18/95	Cobalt-60	-1.8 U	2.9	11	Filtered		LAS
RD-25		Primary	02/06/96	Cesium-134	-0.3 U	1.6	5.8	Filtered		LAS
RD-25		Primary	02/06/96	Cesium-137	-4.9 U	3.4	11	Filtered		LAS
RD-25		Primary	02/06/96	Cobalt-57	0.1 U	2.6	4.5	Filtered		LAS
RD-25		Primary	02/06/96	Cobalt-60	-1.2 U	2.5	10	Filtered		LAS
RD-25		Primary	08/20/96	Cesium-134	-0.9 U	3.3	6.6	Filtered		LAS
RD-25		Primary	08/20/96	Cesium-137	1.9 U	5	8.6	Filtered		LAS
RD-25		Primary	08/20/96	Cobalt-57	0.6 U	3.3	4.4	Filtered		LAS
RD-25		Primary	08/20/96	Cobalt-60	-4.3 U	2.6	8.3	Filtered		LAS
RD-25		Primary	02/07/97	Cesium-134	-1.7 U	3.3	8.2	Filtered		LAS
RD-25		Primary	02/07/97	Cesium-137	-3.6 U	5.3	9.6	Filtered		LAS
RD-25		Primary	02/07/97	Cobalt-57	-0.4 U	2.4	5.6	Filtered		LAS
RD-25		Primary	02/07/97	Cobalt-60	-1 U	3.1	11	Filtered		LAS
RD-25		Primary	08/21/97	Cesium-134	-2.9 U	2.9	6.7	Filtered		LAS
RD-25		Primary	08/21/97	Cesium-137	-4.3 U	4.4	8.4	Filtered		LAS
RD-25		Primary	08/21/97	Cobalt-57	-0.8 U	1.8	4.5	Filtered		LAS
RD-25		Primary	08/21/97	Cobalt-60	0.7 U	3.6	7.8	Filtered		LAS
RD-25		Primary	02/05/98	Cesium-134	12 U	---	12	Filtered		TN
RD-25		Primary	02/05/98	Cesium-137	8.86 U	---	8.86	Filtered		TN
RD-25		Primary	02/05/98	Cobalt-57	3.72 U	---	3.72	Filtered		TN
RD-25		Primary	02/05/98	Cobalt-60	12.8 U	---	12.8	Filtered		TN
RD-25		Primary	08/18/98	Cesium-134	14.6 U	---	14.6	Filtered		TN
RD-25		Primary	08/18/98	Cesium-137	13.4 U	---	13.4	Filtered		TN
RD-25		Primary	08/18/98	Cobalt-57	8.39 U	---	8.39	Filtered		TN
RD-25		Primary	08/18/98	Cobalt-60	15.1 U	---	15.1	Filtered		TN
RD-25		Primary	02/16/99	Cesium-134	17 U	---	17	Filtered		TN
RD-25		Primary	02/16/99	Cesium-137	15.9 U	---	15.9	Filtered		TN
RD-25		Primary	02/16/99	Cobalt-57	10.5 U	---	10.5	Filtered		TN
RD-25		Primary	02/16/99	Cobalt-60	16.8 U	---	16.8	Filtered		TN
RD-25		Primary	08/19/99	Cesium-134	17.2 U	---	17.2	Filtered		TN
RD-25		Primary	08/19/99	Cesium-137	14.6 U	---	14.6	Filtered		TN
RD-25		Primary	08/19/99	Cobalt-57	6.91 U	---	6.91	Filtered		TN
RD-25		Primary	08/19/99	Cobalt-60	23.6 U	---	23.6	Filtered		TN
RD-25		Primary	02/16/00	Cesium-134	16.7 U	---	16.7	Filtered		TR
RD-25		Primary	02/16/00	Cesium-137	14.3 U	---	14.3	Filtered		TR

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-25		Primary	02/16/00	Cobalt-57	5.16 U	---	5.16	Filtered		TR
RD-25		Primary	02/16/00	Cobalt-60	19.7 U	---	19.7	Filtered		TR
RD-25		Primary	08/09/00	Cesium-134	12.7 U	---	12.7	Filtered		TR
RD-25		Primary	08/09/00	Cesium-137	12 U	---	12	Filtered		TR
RD-25		Primary	08/09/00	Cobalt-57	10.2 U	---	10.2	Filtered		TR
RD-25		Primary	08/09/00	Cobalt-60	13.8 U	---	13.8	Filtered		TR
RD-25		Primary	02/07/01	Cesium-134	19 U	---	19	Filtered		ES
RD-25		Primary	02/07/01	Cesium-137	14.9 U	---	14.9	Filtered		ES
RD-25		Primary	02/07/01	Cobalt-57	9.34 U	---	9.34	Filtered		ES
RD-25		Primary	02/07/01	Cobalt-60	15.7 U	---	15.7	Filtered		ES
RD-25		Primary	10/25/01	Cesium-134	4 U	7	12	Filtered		DL
RD-25		Primary	10/25/01	Cesium-137	5 U	8	13	Filtered		DL
RD-25		Primary	10/25/01	Cobalt-57	9 U	8	14	Filtered		DL
RD-25		Primary	10/25/01	Cobalt-60	2 U	3	5	Filtered		DL
RD-25		Primary	03/07/02	Cesium-134	3 U	3	3	Filtered		DL
RD-25		Primary	03/07/02	Cesium-137	2 U	2	2	Filtered		DL
RD-25		Primary	03/07/02	Cobalt-57	3 U	3	3	Filtered		DL
RD-25		Primary	03/07/02	Cobalt-60	3 U	3	3	Filtered		DL
RD-25		Primary	11/06/02	Cesium-134	5.38 U	---	5.38	Filtered		ES
RD-25		Primary	11/06/02	Cesium-137	4.56 U	---	4.56	Filtered		ES
RD-25		Primary	11/06/02	Cobalt-57	2.94 U	---	2.94	Filtered		ES
RD-25		Primary	11/06/02	Cobalt-60	4.39 U	---	4.39	Filtered		ES
RD-25		Primary	02/24/03	Cesium-134	3.7 U	---	3.7	Filtered		ES
RD-25		Primary	02/24/03	Cesium-137	3.25 U	---	3.25	Filtered		ES
RD-25		Primary	02/24/03	Cobalt-57	2.01 U	---	2.01	Filtered		ES
RD-25		Primary	02/24/03	Cobalt-60	3.58 U	---	3.58	Filtered		ES
RD-25		Primary	11/13/03	Cesium-134	14.1 U	---	14.1	Filtered		ES
RD-25		Primary	11/13/03	Cesium-137	10.8 U	---	10.8	Filtered		ES
RD-25		Primary	11/13/03	Cobalt-57	7.96 U	---	7.96	Filtered		ES
RD-25		Primary	11/13/03	Cobalt-60	12.7 U	---	12.7	Filtered		ES
RD-25		Primary	02/23/04	Cesium-134	4.68 U	---	4.68	Filtered		ES
RD-25		Primary	02/23/04	Cesium-137	3.79 U	---	3.79	Filtered		ES
RD-25		Primary	02/23/04	Cobalt-57	2.02 U	---	2.02	Filtered		ES
RD-25		Primary	02/23/04	Cobalt-60	4.09 U	---	4.09	Filtered		ES
RD-25		Split	02/23/04	Cesium-134	-0.174 U	1.63	2.74	Filtered		STL
RD-25		Split	02/23/04	Cesium-137	-0.932 U	1.45	2.4	Filtered		STL
RD-25		Split	02/23/04	Cobalt-57	-6.35 U	6.91	11.3	Filtered		STL
RD-25		Split	02/23/04	Cobalt-60	2.4 U	1.52	2.83	Filtered		STL
RD-26		Primary	10/31/89	Cesium-137	-0.166 U	4.89	---	Unfiltered		UST
RD-26		Primary	12/04/90	Cesium-137	4.03 U	5.1	10	Filtered		IT
RD-26		Primary	03/07/91	Cesium-137	0.16 U	3.54	10	Filtered		IT
RD-26		Primary	03/11/91	Cesium-137	0.16 U	3.54	10	Filtered		CEP
RD-27		Primary	10/19/89	Cesium-137	2.38 U	5.71	---	Unfiltered		UST
RD-27		Primary	12/04/90	Cesium-137	-3.42 U	4.23	10	Filtered		IT
RD-27		Primary	03/07/91	Cesium-137	0.335 U	5.16	10	Filtered		IT

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-27		Primary	12/06/91	Cesium-137	-2.89 U	4.17	10	Filtered		IT
RD-27		Primary	03/09/92	Cesium-137	0 U	---	---	Filtered		CEP
RD-27		Primary	02/05/96	Cesium-134	-2.7 U	2.1	8.5	Filtered		LAS
RD-27		Primary	02/05/96	Cesium-137	-2.6 U	2.3	11	Filtered		LAS
RD-27		Primary	02/05/96	Cobalt-57	-1 U	2.8	4.8	Filtered		LAS
RD-27		Primary	02/05/96	Cobalt-60	-2.7 U	2.6	11	Filtered		LAS
RD-27		Primary	08/27/97	Cesium-134	-2 U	2.6	7.4	Filtered		LAS
RD-27		Primary	08/27/97	Cesium-134	-1.4 U	2.4	5.8	Unfiltered		LAS
RD-27		Primary	08/27/97	Cesium-137	1 U	3.9	6.8	Filtered		LAS
RD-27		Primary	08/27/97	Cesium-137	-1.6 U	4.9	8.9	Unfiltered		LAS
RD-27		Primary	08/27/97	Cobalt-57	0.6 U	3.3	4.3	Filtered		LAS
RD-27		Primary	08/27/97	Cobalt-57	-0.9 U	1.6	4.3	Unfiltered		LAS
RD-27		Primary	08/27/97	Cobalt-60	-1.7 U	2.5	10	Filtered		LAS
RD-27		Primary	08/27/97	Cobalt-60	-0.6 U	2.9	5.4	Unfiltered		LAS
RD-27		Primary	02/16/99	Cesium-134	7.29 U	---	7.29	Filtered		TN
RD-27		Primary	02/16/99	Cesium-137	5.56 U	---	5.56	Filtered		TN
RD-27		Primary	02/16/99	Cobalt-57	3.95 U	---	3.95	Filtered		TN
RD-27		Primary	02/16/99	Cobalt-60	7.38 U	---	7.38	Filtered		TN
RD-27		Primary	08/17/99	Cesium-134	7.35 U	---	7.35	Filtered		TN
RD-27		Primary	08/17/99	Cesium-137	5.74 U	---	5.74	Filtered		TN
RD-27		Primary	08/17/99	Cobalt-57	3.57 U	---	3.57	Filtered		TN
RD-27		Primary	08/17/99	Cobalt-60	5.68 U	---	5.68	Filtered		TN
RD-27		Primary	02/21/00	Cesium-134	8.55 U	---	8.55	Filtered		TR
RD-27		Primary	02/21/00	Cesium-137	6.45 U	---	6.45	Filtered		TR
RD-27		Primary	02/21/00	Cobalt-57	4.1 U	---	4.1	Filtered		TR
RD-27		Primary	02/21/00	Cobalt-60	8.31 U	---	8.31	Filtered		TR
RD-27		Primary	08/04/00	Cesium-134	11.1 U	---	11.1	Filtered		TR
RD-27		Primary	08/04/00	Cesium-137	10.8 U	---	10.8	Filtered		TR
RD-27		Primary	08/04/00	Cobalt-57	7.63 U	---	7.63	Filtered		TR
RD-27		Primary	08/04/00	Cobalt-60	11.9 U	---	11.9	Filtered		TR
RD-27		Primary	02/14/01	Cesium-134	8.89 U	---	8.89	Filtered		ES
RD-27		Primary	02/14/01	Cesium-137	6.89 U	---	6.89	Filtered		ES
RD-27		Primary	02/14/01	Cobalt-57	4.18 U	---	4.18	Filtered		ES
RD-27		Primary	02/14/01	Cobalt-60	7.17 U	---	7.17	Filtered		ES
RD-27		Primary	10/26/01	Cesium-134	5 U	---	5	Filtered		DL
RD-27		Primary	10/26/01	Cesium-137	10 U	---	10	Filtered		DL
RD-27		Primary	10/26/01	Cobalt-57	2.3 U	0.5	10	Filtered		DL
RD-27		Primary	10/26/01	Cobalt-60	5 U	---	5	Filtered		DL
RD-27		Primary	03/06/02	Cesium-134	1 U	0.1	1	Filtered		DL
RD-27		Primary	03/06/02	Cesium-137	1 U	0.1	1	Filtered		DL
RD-27		Primary	03/06/02	Cobalt-57	3 U	3	3	Filtered		DL
RD-27		Primary	03/06/02	Cobalt-60	1 U	0.1	1	Filtered		DL
RD-27		Primary	08/22/02	Cesium-134	109 U	---	109	Filtered		ES
RD-27		Primary	08/22/02	Cesium-137	99.2 U	---	99.2	Filtered		ES
RD-27		Primary	08/22/02	Cobalt-57	51.3 U	---	51.3	Filtered		ES
RD-27		Primary	08/22/02	Cobalt-60	83.5 U	---	83.5	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-27		Primary	05/14/03	Cesium-134	2.83 U	---	2.83	Filtered		ES
RD-27		Primary	05/14/03	Cesium-137	1.25 U	---	1.25	Filtered		ES
RD-27		Primary	05/14/03	Cobalt-57	0.892 U	---	0.892	Filtered		ES
RD-27		Primary	05/14/03	Cobalt-60	1.53 U	---	1.53	Filtered		ES
RD-27		Split	11/14/03	Cesium-134	0.4 U	1.94	3.3	Filtered		STL
RD-27		Split	11/14/03	Cesium-137	-0.532 U	1.63	2.73	Filtered		STL
RD-27		Split	11/14/03	Cobalt-57	-4.02 U	7.2	11.7	Filtered		STL
RD-27		Split	11/14/03	Cobalt-60	1.31 U	1.6	2.95	Filtered		STL
RD-27		Primary	11/14/03	Cesium-134	17.8 U	---	17.8	Filtered		ES
RD-27		Primary	11/14/03	Cesium-137	13.1 U	---	13.1	Filtered		ES
RD-27		Primary	11/14/03	Cobalt-57	7.16 U	---	7.16	Filtered		ES
RD-27		Primary	11/14/03	Cobalt-60	14 U	---	14	Filtered		ES
RD-27		Primary	02/23/04	Cesium-134	5.66 U	---	5.66	Filtered		ES
RD-27		Primary	02/23/04	Cesium-137	4.55 U	---	4.55	Filtered		ES
RD-27		Primary	02/23/04	Cobalt-57	2.33 U	---	2.33	Filtered		ES
RD-27		Primary	02/23/04	Cobalt-60	4.71 U	---	4.71	Filtered		ES
RD-27		Primary	08/10/04	Cesium-134	17.6 U	---	17.6	Filtered		ES
RD-27		Primary	08/10/04	Cesium-137	15.1 U	---	15.1	Filtered		ES
RD-27		Primary	08/10/04	Cobalt-57	9.66 U	---	9.66	Filtered		ES
RD-27		Primary	08/10/04	Cobalt-60	16.5 U	---	16.5	Filtered		ES
RD-27		Primary	02/17/05	Cesium-134	1.74 U	---	1.74	Filtered		ES
RD-27		Primary	02/17/05	Cesium-137	1.35 U	---	1.35	Filtered		ES
RD-27		Primary	02/17/05	Cobalt-57	0.559 U	---	0.559	Filtered		ES
RD-27		Primary	02/17/05	Cobalt-60	1.52 U	---	1.52	Filtered		ES
RD-27		Primary	02/17/05	Europium-152	3.34 U	---	3.34	Filtered		ES
RD-27		Primary	02/17/05	Europium-154	4.05 U	---	4.05	Filtered		ES
RD-27		Primary	02/17/05	Manganese-54	1.38 U	---	1.38	Filtered		ES
RD-27		Primary	02/17/05	Sodium-22	1.38 U	---	1.38	Filtered		ES
RD-27		Primary	08/24/05	Cesium-134	1.71 U	---	1.71	Filtered		ES
RD-27		Primary	08/24/05	Cesium-137	1.45 U	---	1.45	Filtered		ES
RD-27		Primary	08/24/05	Cobalt-57	0.919 U	---	0.919	Filtered		ES
RD-27		Primary	08/24/05	Cobalt-60	1.6 U	---	1.6	Filtered		ES
RD-27		Primary	08/24/05	Europium-152	3.75 U	---	3.75	Filtered		ES
RD-27		Primary	08/24/05	Europium-154	4.54 U	---	4.54	Filtered		ES
RD-27		Primary	08/24/05	Manganese-54	1.57 U	---	1.57	Filtered		ES
RD-27		Primary	08/24/05	Sodium-22	1.57 U	---	1.57	Filtered		ES
RD-27		Primary	02/20/06	Cesium-134	2.32 U	---	2.32	Filtered		ES
RD-27		Primary	02/20/06	Cesium-137	1.47 U	---	1.47	Filtered		ES
RD-27		Primary	02/20/06	Cobalt-57	1.14 U	---	1.14	Filtered		ES
RD-27		Primary	02/20/06	Cobalt-60	1.52 U	---	1.52	Filtered		ES
RD-27		Primary	02/20/06	Europium-152	3.78 U	---	3.78	Filtered		ES
RD-27		Primary	02/20/06	Europium-154	4.17 U	---	4.17	Filtered		ES
RD-27		Primary	02/20/06	Manganese-54	1.5 U	---	1.5	Filtered		ES
RD-27		Primary	02/20/06	Sodium-22	1.43 U	---	1.43	Filtered		ES
RD-27		Primary	08/25/06	Cesium-134	2.42 U	---	2.42	Filtered		ES
RD-27		Primary	08/25/06	Cesium-137	1.49 U	---	1.49	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-27		Primary	08/25/06	Cobalt-57	0.77 U	---	0.77	Filtered		ES
RD-27		Primary	08/25/06	Cobalt-60	1.42 U	---	1.42	Filtered		ES
RD-27		Primary	08/25/06	Europium-152	3.69 U	---	3.69	Filtered		ES
RD-27		Primary	08/25/06	Europium-154	4.33 U	---	4.33	Filtered		ES
RD-27		Primary	08/25/06	Manganese-54	1.47 U	---	1.47	Filtered		ES
RD-27		Primary	08/25/06	Sodium-22	1.48 U	---	1.48	Filtered		ES
RD-27		Primary	02/14/07	Cesium-134	0.746 U	---	0.746	Filtered		ES
RD-27		Split	02/14/07	Cesium-134	0.307 U	0.82	1.42	Filtered		STL
RD-27		Primary	02/14/07	Cesium-137	0.57 U	---	0.57	Filtered		ES
RD-27		Split	02/14/07	Cesium-137	0.168 U	0.75	1.28	Filtered		STL
RD-27		Primary	02/14/07	Cobalt-57	0.324 U	---	0.324	Filtered		ES
RD-27		Split	02/14/07	Cobalt-57	-0.721 U	2.4	3.97	Filtered		STL
RD-27		Primary	02/14/07	Cobalt-60	0.628 U	---	0.628	Filtered		ES
RD-27		Split	02/14/07	Cobalt-60	-0.546 U	0.81	1.33	Filtered		STL
RD-27		Primary	02/14/07	Europium-152	1.55 U	---	1.55	Filtered		ES
RD-27		Split	02/14/07	Europium-152	0.975 U	1.7	2.86	Filtered		STL
RD-27		Primary	02/14/07	Europium-154	1.48 U	---	1.48	Filtered		ES
RD-27		Split	02/14/07	Europium-154	1.32 U	2.3	4.05	Filtered		STL
RD-27		Primary	02/14/07	Manganese-54	0.524 U	---	0.524	Filtered		ES
RD-27		Split	02/14/07	Manganese-54	-0.423 U	0.77	1.28	Filtered		STL
RD-27		Primary	02/14/07	Sodium-22	0.503 U	---	0.503	Filtered		ES
RD-27		Split	02/14/07	Sodium-22	0.426 U	0.81	1.46	Filtered		STL
RD-27		Primary	08/09/07	Cesium-134	0.989 U	---	0.989	Filtered		ES
RD-27		Primary	08/09/07	Cesium-137	0.754 U	---	0.754	Filtered		ES
RD-27		Primary	08/09/07	Cobalt-57	0.399 U	---	0.399	Filtered		ES
RD-27		Primary	08/09/07	Cobalt-60	0.882 U	---	0.882	Filtered		ES
RD-27		Primary	08/09/07	Europium-152	2.18 U	---	2.18	Filtered		ES
RD-27		Primary	08/09/07	Europium-154	2.14 U	---	2.14	Filtered		ES
RD-27		Primary	08/09/07	Manganese-54	0.745 U	---	0.745	Filtered		ES
RD-27		Primary	08/09/07	Sodium-22	0.725 U	---	0.725	Filtered		ES
RD-27		Primary	03/05/08	Cesium-134	1.35 U	---	1.35	Filtered		ES
RD-27		Primary	03/05/08	Cesium-137	1.15 U	---	1.15	Filtered		ES
RD-27		Primary	03/05/08	Cobalt-57	0.856 U	---	0.856	Filtered		ES
RD-27		Primary	03/05/08	Cobalt-60	1.02 U	---	1.02	Filtered		ES
RD-27		Primary	03/05/08	Europium-152	3.01 U	---	3.01	Filtered		ES
RD-27		Primary	03/05/08	Europium-154	2.84 U	---	2.84	Filtered		ES
RD-27		Primary	03/05/08	Manganese-54	0.933 U	---	0.933	Filtered		ES
RD-27		Primary	03/05/08	Sodium-22	0.963 U	---	0.963	Filtered		ES
RD-27		Primary	09/04/08	Beryllium-7	6.74 U	---	6.74	Filtered		ES
RD-27		Primary	09/04/08	Cerium-139	0.44 U	---	0.44	Filtered		ES
RD-27		Primary	09/04/08	Cerium-144	2.89 U	---	2.89	Filtered		ES
RD-27		Primary	09/04/08	Cesium-134	0.922 U	---	0.922	Filtered		ES
RD-27		Primary	09/04/08	Cesium-137	0.73 U	---	0.73	Filtered		ES
RD-27		Primary	09/04/08	Chromium-51	7.5 U	---	7.5	Filtered		ES
RD-27		Primary	09/04/08	Cobalt-56	0.937 U	---	0.937	Filtered		ES
RD-27		Primary	09/04/08	Cobalt-57	0.419 U	---	0.419	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-27		Primary	09/04/08	Cobalt-58	0.825 U	---	0.825	Filtered		ES
RD-27		Primary	09/04/08	Cobalt-60	0.755 U	---	0.755	Filtered		ES
RD-27		Primary	09/04/08	Europium-152	1.79 U	---	1.79	Filtered		ES
RD-27		Primary	09/04/08	Europium-154	2.06 U	---	2.06	Filtered		ES
RD-27		Primary	09/04/08	Manganese-54	0.698 U	---	0.698	Filtered		ES
RD-27		Primary	09/04/08	Silver-110m	0.979 U	---	0.979	Filtered		ES
RD-27		Primary	09/04/08	Sodium-22	0.702 U	---	0.702	Filtered		ES
RD-28		Primary	09/13/89	Cesium-137	-0.53 U	3.97	---	Filtered		UST
RD-28		Primary	09/13/89	Cesium-137	0.87 U	4.89	---	Unfiltered		UST
RD-28		Split	09/13/89	Cesium-137	-11 U	---	---	Filtered		TMA
RD-28		Split	09/13/89	Cesium-137	-11 U	---	---	Unfiltered		TMA
RD-28		Primary	09/13/89	Cobalt-60	3.13 U	4.89	---	Filtered		UST
RD-28		Primary	09/13/89	Cobalt-60	-1.03 U	4.9	---	Unfiltered		UST
RD-28		Primary	10/19/89	Cesium-137	2.11 U	4.85	---	Filtered		UST
RD-28		Primary	12/05/90	Cesium-137	1.83 U	5.12	10	Filtered		IT
RD-28		Primary	03/06/91	Cesium-137	-0.194 U	4.41	10	Filtered		IT
RD-28		Primary	12/10/91	Cesium-137	-0.505 U	4.5	10	Filtered		IT
RD-28		Split	12/10/91	Cesium-137	10 U	---	10	Filtered		CEP
RD-28		Primary	03/06/92	Cesium-137	0 U	---	---	Filtered		CEP
RD-28		Split	03/06/92	Cesium-137	0 U	---	---	Filtered		TEL
RD-28		Primary	03/17/93	Cesium-137	0 U	---	---	Filtered		CEP
RD-28		Primary	02/24/94	Cesium-137	-0.5 U	---	2.3	Filtered		LAS
RD-28		Primary	02/24/94	Cobalt-57	1.1 U	---	2.4	Filtered		LAS
RD-28		Primary	02/24/94	Cobalt-60	-0.76 U	---	2.4	Filtered		LAS
RD-28		Primary	08/17/94	Cesium-134	-19 U	---	43	Filtered		LAS
RD-28		Primary	08/17/94	Cesium-137	5 U	---	50	Filtered		LAS
RD-28		Primary	08/17/94	Cobalt-57	0 U	---	21	Filtered		LAS
RD-28		Primary	08/17/94	Cobalt-60	-9 U	---	50	Filtered		LAS
RD-28		Primary	02/09/95	Cesium-134	-2.3 U	3	8.4	Filtered		LAS
RD-28		Primary	02/09/95	Cesium-137	-5.5 U	3.9	12	Filtered		LAS
RD-28		Primary	02/09/95	Cobalt-57	-0.6 U	2.9	5.1	Filtered		LAS
RD-28		Primary	02/09/95	Cobalt-60	1.4 U	5	12	Filtered		LAS
RD-28		Primary	08/18/95	Cesium-134	3 U	3.3	5.7	Filtered		LAS
RD-28		Primary	08/18/95	Cesium-137	5.5 U	4.6	6.5	Filtered		LAS
RD-28		Primary	08/18/95	Cobalt-57	1.2 U	0.5	4.2	Filtered		LAS
RD-28		Primary	08/18/95	Cobalt-60	-2.5 U	3.1	11	Filtered		LAS
RD-28		Primary	02/06/96	Cesium-134	-2 U	1.3	4.2	Filtered		LAS
RD-28		Primary	02/06/96	Cesium-137	2.2 U	3.1	3.7	Filtered		LAS
RD-28		Primary	02/06/96	Cobalt-57	0.7 U	2	3.4	Filtered		LAS
RD-28		Primary	02/06/96	Cobalt-60	-0.18 U	0.66	2.7	Filtered		LAS
RD-28		Primary	08/20/96	Cesium-134	0.5 U	3.3	6.9	Filtered		LAS
RD-28		Primary	08/20/96	Cesium-137	-1.2 U	6.4	9.3	Filtered		LAS
RD-28		Primary	08/20/96	Cobalt-57	1.3 U	3.3	4.3	Filtered		LAS
RD-28		Primary	08/20/96	Cobalt-60	0.1 U	3.9	10	Filtered		LAS
RD-28		Primary	02/06/97	Cesium-134	-0.8 U	2.6	8.5	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-28		Primary	02/06/97	Cesium-137	-2.8 U	5	8.6	Filtered		LAS
RD-28		Primary	02/06/97	Cobalt-57	0.3 U	2.8	4.6	Filtered		LAS
RD-28		Primary	02/06/97	Cobalt-60	2.3 U	4.5	10	Filtered		LAS
RD-28		Primary	08/28/97	Cesium-134	0.1 U	3.2	6.4	Filtered		LAS
RD-28		Primary	08/28/97	Cesium-134	-1 U	2.6	6.2	Unfiltered		LAS
RD-28		Primary	08/28/97	Cesium-137	1.4 U	4.1	7	Filtered		LAS
RD-28		Primary	08/28/97	Cesium-137	3.9 U	4.5	7.3	Unfiltered		LAS
RD-28		Primary	08/28/97	Cobalt-57	0.4 U	3.3	4.3	Filtered		LAS
RD-28		Primary	08/28/97	Cobalt-57	0.2 U	3.3	4.4	Unfiltered		LAS
RD-28		Primary	08/28/97	Cobalt-60	-6.1 U	3	8.1	Filtered		LAS
RD-28		Primary	08/28/97	Cobalt-60	-1.4 U	3.2	7.7	Unfiltered		LAS
RD-28		Primary	02/05/98	Cesium-134	12 U	---	12	Filtered		TN
RD-28		Primary	02/05/98	Cesium-137	9.65 U	---	9.65	Filtered		TN
RD-28		Primary	02/05/98	Cobalt-57	5.54 U	---	5.54	Filtered		TN
RD-28		Primary	02/05/98	Cobalt-60	9.76 U	---	9.76	Filtered		TN
RD-28		Primary	08/18/98	Cesium-134	14 U	---	14	Filtered		TN
RD-28		Primary	08/18/98	Cesium-137	11.4 U	---	11.4	Filtered		TN
RD-28		Primary	08/18/98	Cobalt-57	7.44 U	---	7.44	Filtered		TN
RD-28		Primary	08/18/98	Cobalt-60	10.2 U	---	10.2	Filtered		TN
RD-28		Primary	02/16/99	Cesium-134	15.2 U	---	15.2	Filtered		TN
RD-28		Primary	02/16/99	Cesium-137	11.6 U	---	11.6	Filtered		TN
RD-28		Primary	02/16/99	Cobalt-57	4.72 U	---	4.72	Filtered		TN
RD-28		Primary	02/16/99	Cobalt-60	17.2 U	---	17.2	Filtered		TN
RD-28		Primary	08/19/99	Cesium-134	17.5 U	---	17.5	Filtered		TN
RD-28		Primary	08/19/99	Cesium-137	15.7 U	---	15.7	Filtered		TN
RD-28		Primary	08/19/99	Cobalt-57	9.94 U	---	9.94	Filtered		TN
RD-28		Primary	08/19/99	Cobalt-60	21 U	---	21	Filtered		TN
RD-28		Primary	02/16/00	Cesium-134	14.6 U	---	14.6	Filtered		TR
RD-28		Primary	02/16/00	Cesium-137	14.7 U	---	14.7	Filtered		TR
RD-28		Primary	02/16/00	Cobalt-57	9.41 U	---	9.41	Filtered		TR
RD-28		Primary	02/16/00	Cobalt-60	14.8 U	---	14.8	Filtered		TR
RD-28		Primary	08/09/00	Cesium-134	12 U	---	12	Filtered		TR
RD-28		Primary	08/09/00	Cesium-137	12 U	---	12	Filtered		TR
RD-28		Primary	08/09/00	Cobalt-57	9.24 U	---	9.24	Filtered		TR
RD-28		Primary	08/09/00	Cobalt-60	12.7 U	---	12.7	Filtered		TR
RD-28		Primary	02/07/01	Cesium-134	8.26 U	---	8.26	Filtered		ES
RD-28		Primary	02/07/01	Cesium-137	6.49 U	---	6.49	Filtered		ES
RD-28		Primary	02/07/01	Cobalt-57	4.04 U	---	4.04	Filtered		ES
RD-28		Primary	02/07/01	Cobalt-60	7.98 U	---	7.98	Filtered		ES
RD-28		Primary	10/25/01	Cesium-134	4 U	6	12	Filtered		DL
RD-28		Primary	10/25/01	Cesium-137	1 U	---	1	Filtered		DL
RD-28		Primary	10/25/01	Cobalt-57	9 U	8	14	Filtered		DL
RD-28		Primary	10/25/01	Cobalt-60	14 U	---	14	Filtered		DL
RD-28		Primary	02/25/02	Cesium-134	5 U	3	5	Filtered		DL
RD-28		Primary	02/25/02	Cesium-137	5 U	3	5	Filtered		DL
RD-28		Primary	02/25/02	Cobalt-57	3 U	3	3	Filtered		DL

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-28		Primary	02/25/02	Cobalt-60	5 U	3	5	Filtered		DL
RD-28		Primary	11/06/02	Cesium-134	5.4 U	---	5.4	Filtered		ES
RD-28		Primary	11/06/02	Cesium-137	4.73 U	---	4.73	Filtered		ES
RD-28		Primary	11/06/02	Cobalt-57	3.42 U	---	3.42	Filtered		ES
RD-28		Primary	11/06/02	Cobalt-60	5.3 U	---	5.3	Filtered		ES
RD-28		Primary	02/24/03	Cesium-134	1.69 U	---	1.69	Filtered		ES
RD-28		Primary	02/24/03	Cesium-137	1.41 U	---	1.41	Filtered		ES
RD-28		Primary	02/24/03	Cobalt-57	0.848 U	---	0.848	Filtered		ES
RD-28		Primary	02/24/03	Cobalt-60	1.55 U	---	1.55	Filtered		ES
RD-28		Primary	11/14/03	Cesium-134	11.6 U	---	11.6	Filtered		ES
RD-28		Primary	11/14/03	Cesium-137	10.1 U	---	10.1	Filtered		ES
RD-28		Primary	11/14/03	Cobalt-57	6.6 U	---	6.6	Filtered		ES
RD-28		Primary	11/14/03	Cobalt-60	10.8 U	---	10.8	Filtered		ES
RD-28		Primary	02/23/04	Cesium-134	9.34 U	---	9.34	Filtered		ES
RD-28		Primary	02/23/04	Cesium-137	8.05 U	---	8.05	Filtered		ES
RD-28		Primary	02/23/04	Cobalt-57	4.73 U	---	4.73	Filtered		ES
RD-28		Primary	02/23/04	Cobalt-60	8.56 U	---	8.56	Filtered		ES
RD-28		Split	02/23/04	Cesium-134	1.15 U	1.69	2.97	Filtered		STL
RD-28		Split	02/23/04	Cesium-137	1.03 U	1.48	2.59	Filtered		STL
RD-28		Split	02/23/04	Cobalt-57	-3.41 U	6.16	10.3	Filtered		STL
RD-28		Split	02/23/04	Cobalt-60	0.0845 U	1.53	2.7	Filtered		STL
RD-29		Primary	10/18/89	Cesium-137	1.99 U	4.39	---	Filtered		UST
RD-29		Primary	10/31/89	Cesium-137	1.16 U	5.06	---	Filtered		UST
RD-29		Primary	12/06/90	Cesium-137	1.01 U	5.22	10	Filtered		IT
RD-29		Duplicate	12/06/90	Cesium-137	3.92 U	42	10	Filtered		IT
RD-29		Primary	03/05/91	Cesium-137	-2.51 U	4.76	10	Filtered		IT
RD-29		Primary	12/10/91	Cesium-137	-7.56 U	4.07	10	Filtered		IT
RD-29		Split	12/10/91	Cesium-137	10 U	---	10	Filtered		CEP
RD-29		Primary	03/03/92	Cesium-137	0 U	---	---	Filtered		CEP
RD-29		Primary	03/05/93	Cesium-137	0 U	---	---	Filtered		CEP
RD-29		Primary	02/26/94	Cesium-137	0.1 U	---	6.4	Filtered		LAS
RD-29		Primary	02/26/94	Cobalt-57	-0.5 U	---	4	Filtered		LAS
RD-29		Primary	02/26/94	Cobalt-60	0.6 U	---	6.8	Filtered		LAS
RD-29		Primary	05/09/01	Cesium-134	13.4 U	---	13.4	Filtered		ES
RD-29		Primary	05/09/01	Cesium-137	12.8 U	---	12.8	Filtered		ES
RD-29		Primary	05/09/01	Cobalt-57	9.06 U	---	9.06	Filtered		ES
RD-29		Primary	05/09/01	Cobalt-60	12.6 U	---	12.6	Filtered		ES
RD-29		Primary	05/03/02	Cesium-134	1 U	3	1	Filtered		DL
RD-29		Primary	05/03/02	Cesium-137	1 U	3	1	Filtered		DL
RD-29		Primary	05/03/02	Cobalt-57	3 U	3	3	Filtered		DL
RD-29		Primary	05/03/02	Cobalt-60	1 U	3	1	Filtered		DL
RD-29		Primary	05/13/03	Cesium-134	1.88 U	---	1.88	Filtered		ES
RD-29		Primary	05/13/03	Cesium-137	1.56 U	---	1.56	Filtered		ES
RD-29		Primary	05/13/03	Cobalt-57	0.918 U	---	0.918	Filtered		ES
RD-29		Primary	05/13/03	Cobalt-60	1.88 U	---	1.88	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-29		Primary	02/24/04	Cesium-134	8.19 U	---	8.19	Filtered		ES
RD-29		Primary	02/24/04	Cesium-137	7.42 U	---	7.42	Filtered		ES
RD-29		Primary	02/24/04	Cobalt-57	5.46 U	---	5.46	Filtered		ES
RD-29		Primary	02/24/04	Cobalt-60	7.7 U	---	7.7	Filtered		ES
RD-29		Primary	02/24/05	Cesium-134	1.44 U	---	1.44	Filtered		ES
RD-29		Primary	02/24/05	Cesium-137	1.24 U	---	1.24	Filtered		ES
RD-29		Primary	02/24/05	Cobalt-57	0.862 U	---	0.862	Filtered		ES
RD-29		Primary	02/24/05	Cobalt-60	1.22 U	---	1.22	Filtered		ES
RD-29		Primary	02/24/05	Europium-152	2.97 U	---	2.97	Filtered		ES
RD-29		Primary	02/24/05	Europium-154	3.91 U	---	3.91	Filtered		ES
RD-29		Primary	02/24/05	Manganese-54	1.21 U	---	1.21	Filtered		ES
RD-29		Primary	02/24/05	Sodium-22	1.34 U	---	1.34	Filtered		ES
RD-29		Primary	02/16/06	Cesium-134	2.12 U	---	2.12	Filtered		ES
RD-29		Primary	02/16/06	Cesium-137	1.78 U	---	1.78	Filtered		ES
RD-29		Primary	02/16/06	Cobalt-57	1.23 U	---	1.23	Filtered		ES
RD-29		Primary	02/16/06	Cobalt-60	1.84 U	---	1.84	Filtered		ES
RD-29		Primary	02/16/06	Europium-152	4.54 U	---	4.54	Filtered		ES
RD-29		Primary	02/16/06	Europium-154	5.33 U	---	5.33	Filtered		ES
RD-29		Primary	02/16/06	Manganese-54	1.83 U	---	1.83	Filtered		ES
RD-29		Primary	02/16/06	Sodium-22	1.82 U	---	1.82	Filtered		ES
RD-29		Primary	02/07/07	Cesium-134	1.28 U	---	1.28	Filtered		ES
RD-29		Primary	02/07/07	Cesium-137	1.14 U	---	1.14	Filtered		ES
RD-29		Primary	02/07/07	Cobalt-57	0.767 U	---	0.767	Filtered		ES
RD-29		Primary	02/07/07	Cobalt-60	1.09 U	---	1.09	Filtered		ES
RD-29		Primary	02/07/07	Europium-152	2.92 U	---	2.92	Filtered		ES
RD-29		Primary	02/07/07	Europium-154	3.1 U	---	3.1	Filtered		ES
RD-29		Primary	02/07/07	Manganese-54	1 U	---	1	Filtered		ES
RD-29		Primary	02/07/07	Sodium-22	1.06 U	---	1.06	Filtered		ES
RD-29		Primary	02/05/08	Cesium-134	1.44 U	---	1.44	Filtered		ES
RD-29		Primary	02/05/08	Cesium-137	1.2 U	---	1.2	Filtered		ES
RD-29		Primary	02/05/08	Cobalt-57	0.789 U	---	0.789	Filtered		ES
RD-29		Primary	02/05/08	Cobalt-60	1.31 U	---	1.31	Filtered		ES
RD-29		Primary	02/05/08	Europium-152	3.35 U	---	3.35	Filtered		ES
RD-29		Primary	02/05/08	Europium-154	3.76 U	---	3.76	Filtered		ES
RD-29		Primary	02/05/08	Manganese-54	1.26 U	---	1.26	Filtered		ES
RD-29		Primary	02/05/08	Sodium-22	1.28 U	---	1.28	Filtered		ES
RD-30		Primary	10/19/89	Cesium-137	-0.177 U	4.39	---	Filtered		UST
RD-30		Primary	06/29/90	Cesium-137	1.49 U	1.93	---	Filtered		UST
RD-30		Primary	12/06/90	Cesium-137	-3.51 U	40	10	Filtered		IT
RD-30		Primary	03/09/91	Cesium-137	-1.3 U	4.99	10	Filtered		IT
RD-30		Primary	12/06/91	Cesium-137	-0.124 U	5.79	10	Filtered		IT
RD-30		Primary	06/03/92	Cesium-137	0 U	---	---	Filtered		CEP
RD-30		Split	06/03/92	Cesium-137	0 U	---	---	Filtered		TEL
RD-30		Primary	03/21/93	Cesium-137	0 U	---	---	Filtered		CEP
RD-30		Primary	02/26/94	Cesium-137	1.3 U	---	6.5	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-30		Primary	02/26/94	Cobalt-57	-0.6 U	---	4	Filtered		LAS
RD-30		Primary	02/26/94	Cobalt-60	2.7 U	---	3.6	Filtered		LAS
RD-30		Primary	08/09/94	Cesium-134	-0.4 U	---	5.9	Filtered		LAS
RD-30		Primary	08/09/94	Cesium-137	1.3 U	---	7.4	Filtered		LAS
RD-30		Primary	08/09/94	Cobalt-57	-0.7 U	---	3.7	Filtered		LAS
RD-30		Primary	08/09/94	Cobalt-60	0.4 U	---	7.2	Filtered		LAS
RD-30		Primary	02/08/95	Cesium-134	-1.9 U	3.5	9.1	Filtered		LAS
RD-30		Primary	02/08/95	Cesium-137	-2.7 U	3.9	12	Filtered		LAS
RD-30		Primary	02/08/95	Cobalt-57	1.3 U	3.4	5.6	Filtered		LAS
RD-30		Primary	02/08/95	Cobalt-60	-0.4 U	3.8	12	Filtered		LAS
RD-30		Primary	08/19/95	Cesium-134	1 U	3.3	6.8	Filtered		LAS
RD-30		Primary	08/19/95	Cesium-137	-3 U	5.1	9.7	Filtered		LAS
RD-30		Primary	08/19/95	Cobalt-57	0 U	---	4.9	Filtered		LAS
RD-30		Primary	08/19/95	Cobalt-60	-3.8 U	3.9	8.8	Filtered		LAS
RD-30		Primary	02/28/96	Cesium-134	1.8 U	4.4	8.2	Filtered		LAS
RD-30		Primary	02/28/96	Cesium-137	0.9 U	8.9	12	Filtered		LAS
RD-30		Primary	02/28/96	Cobalt-57	-0.9 U	0.3	5.7	Filtered		LAS
RD-30		Primary	02/28/96	Cobalt-60	-0.9 U	0.7	11	Filtered		LAS
RD-30		Primary	08/20/96	Cesium-134	2.5 U	3.7	8.1	Filtered		ES
RD-30		Primary	08/20/96	Cesium-137	-6.4 U	4.2	12	Filtered		ES
RD-30		Primary	08/20/96	Cobalt-57	-1.5 U	2.3	5.6	Filtered		ES
RD-30		Primary	08/20/96	Cobalt-60	-1 U	2.7	10	Filtered		ES
RD-30		Primary	02/25/97	Cesium-134	-1.8 U	4.2	8.4	Filtered		LAS
RD-30		Primary	02/25/97	Cesium-137	-2.5 U	4.7	12	Filtered		LAS
RD-30		Primary	02/25/97	Cobalt-57	1.7 U	4.1	5.6	Filtered		LAS
RD-30		Primary	02/25/97	Cobalt-60	2.2 U	4.8	12	Filtered		LAS
RD-30		Primary	08/27/97	Cesium-134	2.3 U	3.4	6.4	Filtered		LAS
RD-30		Primary	08/27/97	Cesium-134	-0.3 U	1.2	3.8	Unfiltered		LAS
RD-30		Primary	08/27/97	Cesium-137	2.1 U	4.8	8.1	Filtered		LAS
RD-30		Primary	08/27/97	Cesium-137	-2.4 U	1.7	4.9	Unfiltered		LAS
RD-30		Primary	08/27/97	Cobalt-57	-0.5 U	1.9	4.7	Filtered		LAS
RD-30		Primary	08/27/97	Cobalt-57	-1.9 U	1.5	3.8	Unfiltered		LAS
RD-30		Primary	08/27/97	Cobalt-60	2 U	4.1	8.7	Filtered		LAS
RD-30		Primary	08/27/97	Cobalt-60	1.1 U	1.6	2.8	Unfiltered		LAS
RD-30		Primary	05/28/98	Cesium-134	7.8 U	---	7.8	Filtered		TN
RD-30		Primary	05/28/98	Cesium-137	7.26 U	---	7.26	Filtered		TN
RD-30		Primary	05/28/98	Cobalt-57	4.06 U	---	4.06	Filtered		TN
RD-30		Primary	05/28/98	Cobalt-60	6.72 U	---	6.72	Filtered		TN
RD-30		Primary	08/05/98	Cesium-134	12.1 U	---	12.1	Filtered		TN
RD-30		Primary	08/05/98	Cesium-137	10.6 U	---	10.6	Filtered		TN
RD-30		Primary	08/05/98	Cobalt-57	6 U	---	6	Filtered		TN
RD-30		Primary	08/05/98	Cobalt-60	8.97 U	---	8.97	Filtered		TN
RD-30		Primary	02/05/99	Cesium-134	7.47 U	---	7.47	Filtered		TN
RD-30		Primary	02/05/99	Cesium-137	5.26 U	---	5.26	Filtered		TN
RD-30		Primary	02/05/99	Cobalt-57	3.7 U	---	3.7	Filtered		TN
RD-30		Primary	02/05/99	Cobalt-60	7.27 U	---	7.27	Filtered		TN

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-30		Primary	05/05/00	Cesium-134	14.6 U	---	14.6	Filtered		TR
RD-30		Primary	05/05/00	Cesium-137	11.9 U	---	11.9	Filtered		TR
RD-30		Primary	05/05/00	Cobalt-57	9.78 U	---	9.78	Filtered		TR
RD-30		Primary	05/05/00	Cobalt-60	12.7 U	---	12.7	Filtered		TR
RD-30		Primary	08/08/00	Cesium-134	16.9 U	---	16.9	Filtered		TR
RD-30		Primary	08/08/00	Cesium-137	15 U	---	15	Filtered		TR
RD-30		Primary	08/08/00	Cobalt-57	6.75 U	---	6.75	Filtered		TR
RD-30		Primary	08/08/00	Cobalt-60	15.1 U	---	15.1	Filtered		TR
RD-30		Primary	05/09/01	Cesium-134	9.27 U	---	9.27	Filtered		ES
RD-30		Primary	05/09/01	Cesium-137	7.17 U	---	7.17	Filtered		ES
RD-30		Primary	05/09/01	Cobalt-57	3.85 U	---	3.85	Filtered		ES
RD-30		Primary	05/09/01	Cobalt-60	10.8 U	---	10.8	Filtered		ES
RD-30		Primary	11/09/01	Cesium-134	5 U	---	5	Filtered		DL
RD-30		Primary	11/09/01	Cesium-137	10 U	---	10	Filtered		DL
RD-30		Primary	11/09/01	Cobalt-57	5 U	---	5	Filtered		DL
RD-30		Primary	11/09/01	Cobalt-60	5 U	---	5	Filtered		DL
RD-30		Primary	03/11/02	Cesium-134	3 U	3	3	Filtered		DL
RD-30		Primary	03/11/02	Cesium-137	5 U	3	5	Filtered		DL
RD-30		Primary	03/11/02	Cobalt-57	3 U	3	3	Filtered		DL
RD-30		Primary	03/11/02	Cobalt-60	3 U	3	3	Filtered		DL
RD-30		Primary	08/30/02	Cesium-134	11.2 U	---	11.2	Filtered		ES
RD-30		Primary	08/30/02	Cesium-137	9.84 U	---	9.84	Filtered		ES
RD-30		Primary	08/30/02	Cobalt-57	5.63 U	---	5.63	Filtered		ES
RD-30		Primary	08/30/02	Cobalt-60	9.87 U	---	9.87	Filtered		ES
RD-30		Primary	02/07/03	Cesium-134	16.1 U	---	16.1	Filtered		ES
RD-30		Primary	02/07/03	Cesium-137	12.5 U	---	12.5	Filtered		ES
RD-30		Primary	02/07/03	Cobalt-57	6.98 U	---	6.98	Filtered		ES
RD-30		Primary	02/07/03	Cobalt-60	15.1 U	---	15.1	Filtered		ES
RD-30		Primary	11/14/03	Cesium-134	12.2 U	---	12.2	Filtered		ES
RD-30		Primary	11/14/03	Cesium-137	10.1 U	---	10.1	Filtered		ES
RD-30		Primary	11/14/03	Cobalt-57	7.28 U	---	7.28	Filtered		ES
RD-30		Primary	11/14/03	Cobalt-60	10.2 U	---	10.2	Filtered		ES
RD-30		Primary	02/24/04	Cesium-134	11.2 U	---	11.2	Filtered		ES
RD-30		Primary	02/24/04	Cesium-137	9.86 U	---	9.86	Filtered		ES
RD-30		Primary	02/24/04	Cobalt-57	5.63 U	---	5.63	Filtered		ES
RD-30		Primary	02/24/04	Cobalt-60	10.4 U	---	10.4	Filtered		ES
RD-30		Primary	08/10/04	Cesium-134	8.7 U	---	8.7	Filtered		ES
RD-30		Primary	08/10/04	Cesium-137	6.88 U	---	6.88	Filtered		ES
RD-30		Primary	08/10/04	Cobalt-57	3.76 U	---	3.76	Filtered		ES
RD-30		Primary	08/10/04	Cobalt-60	7.67 U	---	7.67	Filtered		ES
RD-30		Primary	08/29/05	Cesium-134	1.46 U	---	1.46	Filtered		ES
RD-30		Split	08/29/05	Cesium-134	-0.113 U	1.9	3.52	Filtered		STL
RD-30		Primary	08/29/05	Cesium-137	1.21 U	---	1.21	Filtered		ES
RD-30		Split	08/29/05	Cesium-137	1.2 U	1.9	3.63	Filtered		STL
RD-30		Primary	08/29/05	Cobalt-57	1.06 U	---	1.06	Filtered		ES
RD-30		Split	08/29/05	Cobalt-57	-1.07 U	7.4	13	Filtered		STL

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-30		Primary	08/29/05	Cobalt-60	1.36 U	---	1.36	Filtered		ES
RD-30		Split	08/29/05	Cobalt-60	0.127 U	1.4	2.86	Filtered		STL
RD-30		Primary	08/29/05	Europium-152	3.41 U	---	3.41	Filtered		ES
RD-30		Split	08/29/05	Europium-152	5.29 U	4.1	8.34	Filtered		STL
RD-30		Primary	08/29/05	Europium-154	3.8 U	---	3.8	Filtered		ES
RD-30		Split	08/29/05	Europium-154	-1.37 U	4.7	8.49	Filtered		STL
RD-30		Primary	08/29/05	Manganese-54	1.36 U	---	1.36	Filtered		ES
RD-30		Split	08/29/05	Manganese-54	-0.943 U	1.7	2.86	Filtered		STL
RD-30		Primary	08/29/05	Sodium-22	1.32 U	---	1.32	Filtered		ES
RD-30		Split	08/29/05	Sodium-22	-0.559 U	1.7	3	Filtered		STL
RD-30		Primary	02/17/06	Cesium-134	3.19 U	---	3.19	Filtered		ES
RD-30		Primary	02/17/06	Cesium-137	1.56 U	---	1.56	Filtered		ES
RD-30		Primary	02/17/06	Cobalt-57	1.3 U	---	1.3	Filtered		ES
RD-30		Primary	02/17/06	Cobalt-60	1.57 U	---	1.57	Filtered		ES
RD-30		Primary	02/17/06	Europium-152	4.04 U	---	4.04	Filtered		ES
RD-30		Primary	02/17/06	Europium-154	4.41 U	---	4.41	Filtered		ES
RD-30		Primary	02/17/06	Manganese-54	1.59 U	---	1.59	Filtered		ES
RD-30		Primary	02/17/06	Sodium-22	1.51 U	---	1.51	Filtered		ES
RD-30		Primary	08/09/06	Cesium-134	1.03 U	---	1.03	Filtered		ES
RD-30		Split	08/09/06	Cesium-134	0.289 U	0.78	1.35	Filtered		STL
RD-30		Primary	08/09/06	Cesium-137	0.907 U	---	0.907	Filtered		ES
RD-30		Split	08/09/06	Cesium-137	0.263 U	0.76	1.32	Filtered		STL
RD-30		Primary	08/09/06	Cobalt-57	0.6 U	---	0.6	Filtered		ES
RD-30		Split	08/09/06	Cobalt-57	-2.82 U	3.5	5.69	Filtered		STL
RD-30		Primary	08/09/06	Cobalt-60	0.981 U	---	0.981	Filtered		ES
RD-30		Split	08/09/06	Cobalt-60	0.738 U	0.72	1.36	Filtered		STL
RD-30		Primary	08/09/06	Europium-152	2.17 U	---	2.17	Filtered		ES
RD-30		Split	08/09/06	Europium-152	-0.834 U	1.8	3.08	Filtered		STL
RD-30		Primary	08/09/06	Europium-154	2.4 U	---	2.4	Filtered		ES
RD-30		Split	08/09/06	Europium-154	-1.14 U	2.1	3.47	Filtered		STL
RD-30		Primary	08/09/06	Manganese-54	0.772 U	---	0.772	Filtered		ES
RD-30		Split	08/09/06	Manganese-54	0.309 U	0.75	1.3	Filtered		STL
RD-30		Primary	08/09/06	Sodium-22	0.816 U	---	0.816	Filtered		ES
RD-30		Split	08/09/06	Sodium-22	-0.367 U	0.74	1.26	Filtered		STL
RD-30		Primary	05/24/07	Cesium-134	1.24 U	---	1.24	Filtered		ES
RD-30		Primary	05/24/07	Cesium-137	1.05 U	---	1.05	Filtered		ES
RD-30		Primary	05/24/07	Cobalt-57	0.761 U	---	0.761	Filtered		ES
RD-30		Primary	05/24/07	Cobalt-60	1.06 U	---	1.06	Filtered		ES
RD-30		Primary	05/24/07	Europium-152	2.99 U	---	2.99	Filtered		ES
RD-30		Primary	05/24/07	Europium-154	3.36 U	---	3.36	Filtered		ES
RD-30		Primary	05/24/07	Manganese-54	1.04 U	---	1.04	Filtered		ES
RD-30		Primary	05/24/07	Sodium-22	1.11 U	---	1.11	Filtered		ES
RD-30		Primary	08/21/07	Cesium-134	0.678 U	---	0.678	Filtered		ES
RD-30		Primary	08/21/07	Cesium-137	0.555 U	---	0.555	Filtered		ES
RD-30		Primary	08/21/07	Cobalt-57	0.33 U	---	0.33	Filtered		ES
RD-30		Primary	08/21/07	Cobalt-60	0.632 U	---	0.632	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-30		Primary	08/21/07	Europium-152	1.74 U	---	1.74	Filtered		ES
RD-30		Primary	08/21/07	Europium-154	1.97 U	---	1.97	Filtered		ES
RD-30		Primary	08/21/07	Manganese-54	0.602 U	---	0.602	Filtered		ES
RD-30		Primary	08/21/07	Sodium-22	0.669 U	---	0.669	Filtered		ES
RD-30		Primary	02/06/08	Cesium-134	0.964 U	---	0.964	Filtered		ES
RD-30		Primary	02/06/08	Cesium-137	0.743 U	---	0.743	Filtered		ES
RD-30		Primary	02/06/08	Cobalt-57	0.443 U	---	0.443	Filtered		ES
RD-30		Primary	02/06/08	Cobalt-60	1.03 U	---	1.03	Filtered		ES
RD-30		Primary	02/06/08	Europium-152	2.21 U	---	2.21	Filtered		ES
RD-30		Primary	02/06/08	Europium-154	2.15 U	---	2.15	Filtered		ES
RD-30		Primary	02/06/08	Manganese-54	0.754 U	---	0.754	Filtered		ES
RD-30		Primary	02/06/08	Sodium-22	0.733 U	---	0.733	Filtered		ES
RD-30		Primary	08/13/08	Beryllium-7	6.88 U	---	6.88	Filtered		ES
RD-30		Primary	08/13/08	Cerium-139	0.519 U	---	0.519	Filtered		ES
RD-30		Primary	08/13/08	Cerium-144	3.13 U	---	3.13	Filtered		ES
RD-30		Primary	08/13/08	Cesium-134	0.932 U	---	0.932	Filtered		ES
RD-30		Primary	08/13/08	Cesium-137	0.808 U	---	0.808	Filtered		ES
RD-30		Primary	08/13/08	Chromium-51	6.93 U	---	6.93	Filtered		ES
RD-30		Primary	08/13/08	Cobalt-56	0.871 U	---	0.871	Filtered		ES
RD-30		Primary	08/13/08	Cobalt-57	0.42 U	---	0.42	Filtered		ES
RD-30		Primary	08/13/08	Cobalt-58	0.839 U	---	0.839	Filtered		ES
RD-30		Primary	08/13/08	Cobalt-60	0.893 U	---	0.893	Filtered		ES
RD-30		Primary	08/13/08	Europium-152	1.96 U	---	1.96	Filtered		ES
RD-30		Primary	08/13/08	Europium-154	2.47 U	---	2.47	Filtered		ES
RD-30		Primary	08/13/08	Manganese-54	0.756 U	---	0.756	Filtered		ES
RD-30		Primary	08/13/08	Silver-110m	0.953 U	---	0.953	Filtered		ES
RD-30		Primary	08/13/08	Sodium-22	0.775 U	---	0.775	Filtered		ES
RD-31		Primary	10/24/89	Cesium-137	-1.86 U	4.65	---	Unfiltered		UST
RD-31		Primary	12/05/90	Cesium-137	-1.97 U	3.83	10	Filtered		IT
RD-31		Primary	03/10/91	Cesium-137	3.79 U	5.9	10	Filtered		IT
RD-31		Primary	03/05/92	Cesium-137	0 U	---	---	Filtered		CEP
RD-33A		Primary	12/05/91	Cesium-137	2.11 U	4.74	10	Filtered		IT
RD-33A		Primary	12/12/91	Cesium-137	0.315 U	4.85	10	Filtered		IT
RD-33A		Split	12/12/91	Cesium-137	10 U	---	10	Filtered		CEP
RD-33A		Primary	06/08/92	Cesium-137	0 U	---	---	Filtered		CEP
RD-33A		Primary	09/15/92	Cesium-137	0 U	---	---	Filtered		CEP
RD-33A		Primary	12/05/92	Cesium-137	0 U	---	---	Filtered		CEP
RD-33A		Primary	08/24/93	Cesium-137	0 U	---	---	Filtered		CEP
RD-33A		Primary	02/27/94	Cesium-137	-5.3 U	---	8.3	Filtered		LAS
RD-33A		Primary	02/27/94	Cobalt-57	-0.8 U	---	3.9	Filtered		LAS
RD-33A		Primary	02/27/94	Cobalt-60	-0.7 U	---	5.4	Filtered		LAS
RD-33A		Primary	05/10/94	Cesium-137	-0.6 U	2.4	3.4	Filtered		LAS
RD-33A		Primary	05/10/94	Cesium-137	5.6 U	5.5	6.5	Unfiltered		LAS
RD-33A		Primary	05/10/94	Cobalt-57	0.8 U	1.8	2.9	Filtered		LAS
RD-33A		Primary	05/10/94	Cobalt-57	1.3 U	2.3	3.8	Unfiltered		LAS

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-33A		Primary	05/10/94	Cobalt-60	-0.1 U	1.5	3.5	Filtered		LAS
RD-33A		Primary	05/10/94	Cobalt-60	1.1 U	3.5	6.1	Unfiltered		LAS
RD-33A		Primary	08/18/94	Cesium-134	-10.5 U	---	25	Filtered		LAS
RD-33A		Primary	08/18/94	Cesium-137	-6 U	---	30	Filtered		LAS
RD-33A		Primary	08/18/94	Cobalt-57	0 U	---	19	Filtered		LAS
RD-33A		Primary	08/18/94	Cobalt-60	-8 U	---	28	Filtered		LAS
RD-33A		Primary	02/07/95	Cesium-134	0 U	---	7.1	Filtered		LAS
RD-33A		Primary	02/07/95	Cesium-137	-3.6 U	3	9.7	Filtered		LAS
RD-33A		Primary	02/07/95	Cobalt-57	0.1 U	2.6	4.5	Filtered		LAS
RD-33A		Primary	02/07/95	Cobalt-60	-2.2 U	2.9	11	Filtered		LAS
RD-33A		Primary	08/09/95	Cesium-134	-1.9 U	3.2	7.4	Filtered		LAS
RD-33A		Primary	08/09/95	Cesium-137	-0.9 U	5	9.3	Filtered		LAS
RD-33A		Primary	08/09/95	Cobalt-57	1 U	2.5	4.3	Filtered		LAS
RD-33A		Primary	08/09/95	Cobalt-60	-1.5 U	2.6	8.6	Filtered		LAS
RD-33A		Primary	02/19/96	Cesium-134	1.1 U	3.5	6.7	Filtered		LAS
RD-33A		Primary	02/19/96	Cesium-137	-3.6 U	3.6	11	Filtered		LAS
RD-33A		Primary	02/19/96	Cobalt-57	3 U	2.5	3.9	Filtered		LAS
RD-33A		Primary	02/19/96	Cobalt-60	0.1 U	4.4	9.9	Filtered		LAS
RD-33A		Primary	08/23/96	Cesium-134	1.4 U	3.7	6.9	Filtered		LAS
RD-33A		Primary	08/23/96	Cesium-137	0.8 U	4.9	8.6	Filtered		LAS
RD-33A		Primary	08/23/96	Cobalt-57	-1.7 U	1.9	5	Filtered		LAS
RD-33A		Primary	08/23/96	Cobalt-60	-2.3 U	4.6	12	Filtered		LAS
RD-33A		Primary	02/25/97	Cesium-134	0.6 U	6.1	7.7	Filtered		LAS
RD-33A		Primary	02/25/97	Cesium-137	-5.1 U	3.5	11	Filtered		LAS
RD-33A		Primary	02/25/97	Cobalt-57	-1.4 U	1.9	5	Filtered		LAS
RD-33A		Primary	02/25/97	Cobalt-60	1.8 U	2.8	6.2	Filtered		LAS
RD-33A		Primary	08/27/97	Cesium-134	2.4 U	3.5	6.6	Filtered		LAS
RD-33A		Primary	08/27/97	Cesium-134	-2.6 U	3.5	8.3	Unfiltered		LAS
RD-33A		Primary	08/27/97	Cesium-137	4.5 U	6.5	8.1	Filtered		LAS
RD-33A		Primary	08/27/97	Cesium-137	-3.1 U	3.3	10	Unfiltered		LAS
RD-33A		Primary	08/27/97	Cobalt-57	2 U	2.7	4.4	Filtered		LAS
RD-33A		Primary	08/27/97	Cobalt-57	0.8 U	2.6	4.4	Unfiltered		LAS
RD-33A		Primary	08/27/97	Cobalt-60	-2.2 U	2.3	8.8	Filtered		LAS
RD-33A		Primary	08/27/97	Cobalt-60	-1.5 U	2.5	7.2	Unfiltered		LAS
RD-33A		Primary	05/27/98	Cesium-134	17.9 U	---	17.9	Filtered		TN
RD-33A		Primary	05/27/98	Cesium-137	14.6 U	---	14.6	Filtered		TN
RD-33A		Primary	05/27/98	Cobalt-57	9.17 U	---	9.17	Filtered		TN
RD-33A		Primary	05/27/98	Cobalt-60	20.8 U	---	20.8	Filtered		TN
RD-33A		Primary	08/17/98	Cesium-134	14.1 U	---	14.1	Filtered		TN
RD-33A		Primary	08/17/98	Cesium-137	10.2 U	---	10.2	Filtered		TN
RD-33A		Primary	08/17/98	Cobalt-57	6.73 U	---	6.73	Filtered		TN
RD-33A		Primary	08/17/98	Cobalt-60	10.4 U	---	10.4	Filtered		TN
RD-33A		Primary	02/03/99	Cesium-134	8 U	---	8	Filtered		TN
RD-33A		Primary	02/03/99	Cesium-137	6.68 U	---	6.68	Filtered		TN
RD-33A		Primary	02/03/99	Cobalt-57	3.92 U	---	3.92	Filtered		TN
RD-33A		Primary	02/03/99	Cobalt-60	7.51 U	---	7.51	Filtered		TN

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-33A		Primary	02/09/00	Cesium-134	11.1 U	---	11.1	Filtered		TR
RD-33A		Primary	02/09/00	Cesium-137	8.15 U	---	8.15	Filtered		TR
RD-33A		Primary	02/09/00	Cobalt-57	9 U	---	9	Filtered		TR
RD-33A		Primary	02/09/00	Cobalt-60	10.7 U	---	10.7	Filtered		TR
RD-33A		Primary	05/14/01	Cesium-134	11 U	---	11	Filtered		ES
RD-33A		Primary	05/14/01	Cesium-137	10.5 U	---	10.5	Filtered		ES
RD-33A		Primary	05/14/01	Cobalt-57	7.52 U	---	7.52	Filtered		ES
RD-33A		Primary	05/14/01	Cobalt-60	9.59 U	---	9.59	Filtered		ES
RD-33A		Primary	02/15/02	Cesium-134	3 U	3	3	Filtered		DL
RD-33A		Primary	02/15/02	Cesium-137	3 U	3	3	Filtered		DL
RD-33A		Primary	02/15/02	Cobalt-57	5 U	1	5	Filtered		DL
RD-33A		Primary	02/15/02	Cobalt-60	5 U	1	5	Filtered		DL
RD-33A	Z4	Primary	01/30/03	Cesium-134	2.26 U	---	2.26	Filtered		ES
RD-33A	Z4	Primary	01/30/03	Cesium-137	1.98 U	---	1.98	Filtered		ES
RD-33A	Z4	Primary	01/30/03	Cobalt-57	1.4 U	---	1.4	Filtered		ES
RD-33A	Z4	Primary	01/30/03	Cobalt-60	1.98 U	---	1.98	Filtered		ES
RD-33A	Z2	Primary	11/15/04	Cesium-134	4.05 U	---	4.05	Filtered		ES
RD-33A	Z2	Primary	11/15/04	Cesium-137	3.14 U	---	3.14	Filtered		ES
RD-33A	Z2	Primary	11/15/04	Cobalt-57	1.89 U	---	1.89	Filtered		ES
RD-33A	Z2	Primary	11/15/04	Cobalt-60	3.5 U	---	3.5	Filtered		ES
RD-33A	Z2	Primary	11/15/04	Europium-152	7.47 U	---	7.47	Filtered		ES
RD-33A	Z2	Primary	11/15/04	Europium-154	9.55 U	---	9.55	Filtered		ES
RD-33A	Z2	Primary	11/15/04	Manganese-54	3.39 U	---	3.39	Filtered		ES
RD-33A	Z2	Primary	11/15/04	Sodium-22	3.28 U	---	3.28	Filtered		ES
RD-33A	Z3	Primary	02/17/05	Cesium-134	1.4 U	---	1.4	Filtered		ES
RD-33A	Z3	Primary	02/17/05	Cesium-137	1.23 U	---	1.23	Filtered		ES
RD-33A	Z3	Primary	02/17/05	Cobalt-57	0.83 U	---	0.83	Filtered		ES
RD-33A	Z3	Primary	02/17/05	Cobalt-60	1.22 U	---	1.22	Filtered		ES
RD-33A	Z3	Primary	02/17/05	Europium-152	3.32 U	---	3.32	Filtered		ES
RD-33A	Z3	Primary	02/17/05	Europium-154	3.61 U	---	3.61	Filtered		ES
RD-33A	Z3	Primary	02/17/05	Manganese-54	1.22 U	---	1.22	Filtered		ES
RD-33A	Z3	Primary	02/17/05	Sodium-22	1.23 U	---	1.23	Filtered		ES
RD-33A	Z2	Primary	02/17/06	Cesium-134	1.28 U	---	1.28	Filtered		ES
RD-33A	Z2	Primary	02/17/06	Cesium-137	1.16 U	---	1.16	Filtered		ES
RD-33A	Z2	Primary	02/17/06	Cobalt-57	0.7 U	---	0.7	Filtered		ES
RD-33A	Z2	Primary	02/17/06	Cobalt-60	1.05 U	---	1.05	Filtered		ES
RD-33A	Z2	Primary	02/17/06	Europium-152	2.8 U	---	2.8	Filtered		ES
RD-33A	Z2	Primary	02/17/06	Europium-154	3.32 U	---	3.32	Filtered		ES
RD-33A	Z2	Primary	02/17/06	Manganese-54	1.05 U	---	1.05	Filtered		ES
RD-33A	Z2	Primary	02/17/06	Sodium-22	1.15 U	---	1.15	Filtered		ES
RD-33A	Z2	Primary	02/08/07	Cesium-134	1.01 U	---	1.01	Filtered		ES
RD-33A	Z2	Primary	02/08/07	Cesium-137	0.882 U	---	0.882	Filtered		ES
RD-33A	Z2	Primary	02/08/07	Cobalt-57	0.614 U	---	0.614	Filtered		ES
RD-33A	Z2	Primary	02/08/07	Cobalt-60	0.971 U	---	0.971	Filtered		ES
RD-33A	Z2	Primary	02/08/07	Europium-152	2.26 U	---	2.26	Filtered		ES
RD-33A	Z2	Primary	02/08/07	Europium-154	2.4 U	---	2.4	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-33A	Z2	Primary	02/08/07	Manganese-54	0.841 U	---	0.841	Filtered		ES
RD-33A	Z2	Primary	02/08/07	Sodium-22	0.848 U	---	0.848	Filtered		ES
RD-33A	Z2	Primary	02/07/08	Cesium-134	0.832 U	---	0.832	Filtered		ES
RD-33A	Z2	Primary	02/07/08	Cesium-137	0.667 U	---	0.667	Filtered		ES
RD-33A	Z2	Primary	02/07/08	Cobalt-57	0.531 U	---	0.531	Filtered		ES
RD-33A	Z2	Primary	02/07/08	Cobalt-60	0.562 U	---	0.562	Filtered		ES
RD-33A	Z2	Primary	02/07/08	Europium-152	1.96 U	---	1.96	Filtered		ES
RD-33A	Z2	Primary	02/07/08	Europium-154	1.75 U	---	1.75	Filtered		ES
RD-33A	Z2	Primary	02/07/08	Manganese-54	0.566 U	---	0.566	Filtered		ES
RD-33A	Z2	Primary	02/07/08	Sodium-22	0.595 U	---	0.595	Filtered		ES
RD-33B		Primary	12/12/91	Cesium-137	-0.0595 U	5.35	10	Filtered		IT
RD-33B		Split	12/12/91	Cesium-137	10 U	---	10	Filtered		CEP
RD-33B		Primary	06/24/92	Cesium-137	0 U	---	---	Filtered		CEP
RD-33B		Primary	09/15/92	Cesium-137	0 U	---	---	Filtered		CEP
RD-33B		Primary	12/05/92	Cesium-137	0 U	---	---	Filtered		CEP
RD-33B		Primary	08/24/93	Cesium-137	0 U	---	---	Filtered		CEP
RD-33B		Primary	02/27/94	Cesium-137	21.6	7.6	6.4	Filtered		LAS
RD-33B		Reanalysis of Primary	02/27/94	Cesium-137	1.7 U	---	2.5	Filtered		LAS
RD-33B		Primary	02/27/94	Cobalt-57	0 U	---	4.3	Filtered		LAS
RD-33B		Reanalysis of Primary	02/27/94	Cobalt-57	-0.3 U	---	2.7	Filtered		LAS
RD-33B		Primary	02/27/94	Cobalt-60	8.9	2	7	Filtered		LAS
RD-33B		Reanalysis of Primary	02/27/94	Cobalt-60	0.4 U	---	2.6	Filtered		LAS
RD-33B		Primary	05/10/94	Cesium-137	1.3 U	5.3	7.1	Filtered		LAS
RD-33B		Primary	05/10/94	Cesium-137	4.1 U	5.5	6.9	Unfiltered		LAS
RD-33B		Primary	05/10/94	Cobalt-57	-1.8 U	2.1	3.8	Filtered		LAS
RD-33B		Primary	05/10/94	Cobalt-57	-1.2 U	2.3	4	Unfiltered		LAS
RD-33B		Primary	05/10/94	Cobalt-60	-1.5 U	3.3	7.2	Filtered		LAS
RD-33B		Primary	05/10/94	Cobalt-60	1 U	3.9	8.1	Unfiltered		LAS
RD-33B		Primary	08/18/94	Cesium-134	-3.9 U	---	28	Filtered		LAS
RD-33B		Primary	08/18/94	Cesium-137	-13 U	---	37	Filtered		LAS
RD-33B		Primary	08/18/94	Cobalt-57	2 U	---	24	Filtered		LAS
RD-33B		Primary	08/18/94	Cobalt-60	-2 U	---	33	Filtered		LAS
RD-33B		Primary	02/07/95	Cesium-134	-2.2 U	3	6.6	Filtered		LAS
RD-33B		Primary	02/07/95	Cesium-137	-0.2 U	6.8	9.5	Filtered		LAS
RD-33B		Primary	02/07/95	Cobalt-57	-1 U	2.6	4.7	Filtered		LAS
RD-33B		Primary	02/07/95	Cobalt-60	2 U	3.7	9.3	Filtered		LAS
RD-33B		Primary	08/09/95	Cesium-134	0.8 U	3.2	6.7	Filtered		LAS
RD-33B		Primary	08/09/95	Cesium-137	-1.1 U	5.2	9.7	Filtered		LAS
RD-33B		Primary	08/09/95	Cobalt-57	1 U	2.4	4.1	Filtered		LAS
RD-33B		Primary	08/09/95	Cobalt-60	2.1 U	4.6	8.8	Filtered		LAS
RD-33B		Primary	02/19/96	Cesium-134	-0.7 U	3.1	7.3	Filtered		LAS
RD-33B		Primary	02/19/96	Cesium-137	0.5 U	6.4	8.9	Filtered		LAS
RD-33B		Primary	02/19/96	Cobalt-57	-1.1 U	2.6	4.7	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-33B		Primary	02/19/96	Cobalt-60	-0.4 U	1.5	9.2	Filtered		LAS
RD-33B		Primary	08/23/96	Cesium-134	-0.9 U	3.5	8	Filtered		LAS
RD-33B		Primary	08/23/96	Cesium-137	-3.9 U	2.8	9.7	Filtered		LAS
RD-33B		Primary	08/23/96	Cobalt-57	-2 U	1.8	4.7	Filtered		LAS
RD-33B		Primary	08/23/96	Cobalt-60	-0.6 U	3.9	8.3	Filtered		LAS
RD-33B		Primary	02/25/97	Cesium-134	2.5 U	3.3	5.3	Filtered		LAS
RD-33B		Primary	02/25/97	Cesium-137	3 U	6.4	8.1	Filtered		LAS
RD-33B		Primary	02/25/97	Cobalt-57	-1.1 U	1.7	4.5	Filtered		LAS
RD-33B		Primary	02/25/97	Cobalt-60	-0.9 U	3.6	7.5	Filtered		LAS
RD-33B		Primary	08/22/97	Cesium-134	-3.2 U	2	7.8	Filtered		LAS
RD-33B		Primary	08/22/97	Cesium-137	-0.7 U	5.2	9.3	Filtered		LAS
RD-33B		Primary	08/22/97	Cobalt-57	0.2 U	2.4	4.1	Filtered		LAS
RD-33B		Primary	08/22/97	Cobalt-60	-0.5 U	2	9.4	Filtered		LAS
RD-33B		Primary	05/27/98	Cesium-134	7.63 U	---	7.63	Filtered		TN
RD-33B		Primary	05/27/98	Cesium-137	5.5 U	---	5.5	Filtered		TN
RD-33B		Primary	05/27/98	Cobalt-57	3.49 U	---	3.49	Filtered		TN
RD-33B		Primary	05/27/98	Cobalt-60	5.93 U	---	5.93	Filtered		TN
RD-33B		Primary	08/17/98	Cesium-134	14.6 U	---	14.6	Filtered		TN
RD-33B		Primary	08/17/98	Cesium-137	14.1 U	---	14.1	Filtered		TN
RD-33B		Primary	08/17/98	Cobalt-57	8.78 U	---	8.78	Filtered		TN
RD-33B		Primary	08/17/98	Cobalt-60	13.7 U	---	13.7	Filtered		TN
RD-33B		Primary	02/03/99	Cesium-134	6.02 U	---	6.02	Filtered		TN
RD-33B		Primary	02/03/99	Cesium-137	4.43 U	---	4.43	Filtered		TN
RD-33B		Primary	02/03/99	Cobalt-57	2.9 U	---	2.9	Filtered		TN
RD-33B		Primary	02/03/99	Cobalt-60	4.9 U	---	4.9	Filtered		TN
RD-33B		Primary	02/09/00	Cesium-134	13 U	---	13	Filtered		TR
RD-33B		Primary	02/09/00	Cesium-137	12 U	---	12	Filtered		TR
RD-33B		Primary	02/09/00	Cobalt-57	4.05 U	---	4.05	Filtered		TR
RD-33B		Primary	02/09/00	Cobalt-60	14.2 U	---	14.2	Filtered		TR
RD-33B		Primary	02/17/01	Cesium-134	16.2 U	---	16.2	Filtered		ES
RD-33B		Primary	02/17/01	Cesium-137	12.4 U	---	12.4	Filtered		ES
RD-33B		Primary	02/17/01	Cobalt-57	7.12 U	---	7.12	Filtered		ES
RD-33B		Primary	02/17/01	Cobalt-60	13.5 U	---	13.5	Filtered		ES
RD-33B		Primary	02/15/02	Cesium-134	3 U	1	3	Filtered		DL
RD-33B		Primary	02/15/02	Cesium-137	3 U	1	3	Filtered		DL
RD-33B		Primary	02/15/02	Cobalt-57	5 U	3	5	Filtered		DL
RD-33B		Primary	02/15/02	Cobalt-60	5 U	3	5	Filtered		DL
RD-33B		Primary	02/11/03	Cesium-134	3.46 U	---	3.46	Filtered		ES
RD-33B		Primary	02/11/03	Cesium-137	2.82 U	---	2.82	Filtered		ES
RD-33B		Primary	02/11/03	Cobalt-57	1.86 U	---	1.86	Filtered		ES
RD-33B		Primary	02/11/03	Cobalt-60	3.13 U	---	3.13	Filtered		ES
RD-33B		Primary	11/04/04	Cesium-134	2.57 U	---	2.57	Filtered		ES
RD-33B		Primary	11/04/04	Cesium-137	32.6	4.6	2.9	Filtered		ES
RD-33B		Primary	11/04/04	Cobalt-57	1.43 U	---	1.43	Filtered		ES
RD-33B		Primary	11/04/04	Cobalt-60	2.14 U	---	2.14	Filtered		ES
RD-33B		Primary	11/04/04	Europium-152	5.48 U	---	5.48	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-33B		Primary	11/04/04	Europium-154	6.36 U	---	6.36	Filtered		ES
RD-33B		Primary	11/04/04	Manganese-54	2.26 U	---	2.26	Filtered		ES
RD-33B		Primary	11/04/04	Sodium-22	2.21 U	---	2.21	Filtered		ES
RD-33B		Primary	02/17/05	Cesium-134	1.42 U	---	1.42	Filtered		ES
RD-33B		Split	02/17/05	Cesium-134	1 U	0.79	1.42	Filtered		STL
RD-33B		Primary	02/17/05	Cesium-137	1.26 U	---	1.26	Filtered		ES
RD-33B		Split	02/17/05	Cesium-137	0.456 U	0.7	1.25	Filtered		STL
RD-33B		Primary	02/17/05	Cobalt-57	0.828 U	---	0.828	Filtered		ES
RD-33B		Split	02/17/05	Cobalt-57	0.625 U	3.2	5.39	Filtered		STL
RD-33B		Primary	02/17/05	Cobalt-60	1.25 U	---	1.25	Filtered		ES
RD-33B		Split	02/17/05	Cobalt-60	0.441 U	0.72	1.31	Filtered		STL
RD-33B		Primary	02/17/05	Europium-152	3.03 U	---	3.03	Filtered		ES
RD-33B		Split	02/17/05	Europium-152	1.17 U	1.8	3.04	Filtered		STL
RD-33B		Primary	02/17/05	Europium-154	3.84 U	---	3.84	Filtered		ES
RD-33B		Split	02/17/05	Europium-154	-1 U	2.1	3.54	Filtered		STL
RD-33B		Primary	02/17/05	Manganese-54	1.26 U	---	1.26	Filtered		ES
RD-33B		Split	02/17/05	Manganese-54	0.0858 U	0.75	1.27	Filtered		STL
RD-33B		Primary	02/17/05	Sodium-22	1.26 U	---	1.26	Filtered		ES
RD-33B		Split	02/17/05	Sodium-22	0.0537 U	0.73	1.29	Filtered		STL
RD-33B		Primary	02/16/06	Cesium-134	2.59 U	---	2.59	Filtered		ES
RD-33B		Primary	02/16/06	Cesium-137	1.42 U	---	1.42	Filtered		ES
RD-33B		Primary	02/16/06	Cobalt-57	1.19 U	---	1.19	Filtered		ES
RD-33B		Primary	02/16/06	Cobalt-60	1.49 U	---	1.49	Filtered		ES
RD-33B		Primary	02/16/06	Europium-152	3.56 U	---	3.56	Filtered		ES
RD-33B		Primary	02/16/06	Europium-154	4.15 U	---	4.15	Filtered		ES
RD-33B		Primary	02/16/06	Manganese-54	1.39 U	---	1.39	Filtered		ES
RD-33B		Primary	02/16/06	Sodium-22	1.44 U	---	1.44	Filtered		ES
RD-33B		Primary	02/07/07	Cesium-134	0.68 U	---	0.68	Filtered		ES
RD-33B		Primary	02/07/07	Cesium-137	0.576 U	---	0.576	Filtered		ES
RD-33B		Primary	02/07/07	Cobalt-57	0.332 U	---	0.332	Filtered		ES
RD-33B		Primary	02/07/07	Cobalt-60	0.649 U	---	0.649	Filtered		ES
RD-33B		Primary	02/07/07	Europium-152	1.52 U	---	1.52	Filtered		ES
RD-33B		Primary	02/07/07	Europium-154	1.69 U	---	1.69	Filtered		ES
RD-33B		Primary	02/07/07	Manganese-54	0.556 U	---	0.556	Filtered		ES
RD-33B		Primary	02/07/07	Sodium-22	0.575 U	---	0.575	Filtered		ES
RD-33B		Primary	02/13/08	Cesium-134	2.09 U	---	2.09	Filtered		ES
RD-33B		Primary	02/13/08	Cesium-137	1.2 U	---	1.2	Filtered		ES
RD-33B		Primary	02/13/08	Cobalt-57	0.728 U	---	0.728	Filtered		ES
RD-33B		Primary	02/13/08	Cobalt-60	1.25 U	---	1.25	Filtered		ES
RD-33B		Primary	02/13/08	Europium-152	3.19 U	---	3.19	Filtered		ES
RD-33B		Primary	02/13/08	Europium-154	3.69 U	---	3.69	Filtered		ES
RD-33B		Primary	02/13/08	Manganese-54	1.29 U	---	1.29	Filtered		ES
RD-33B		Primary	02/13/08	Sodium-22	1.26 U	---	1.26	Filtered		ES
RD-33C		Primary	12/05/91	Cesium-137	-5.04 U	4.15	10	Filtered		IT
RD-33C		Primary	12/12/91	Cesium-137	0.87 U	5.04	10	Filtered		IT

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-33C		Split	12/12/91	Cesium-137	10 U	---	10	Filtered		CEP
RD-33C		Primary	06/08/92	Cesium-137	0 U	---	---	Filtered		CEP
RD-33C		Primary	09/15/92	Cesium-137	0 U	---	---	Filtered		CEP
RD-33C		Primary	12/05/92	Cesium-137	0 U	---	---	Filtered		CEP
RD-33C		Primary	08/24/93	Cesium-137	0 U	---	---	Filtered		CEP
RD-33C		Primary	02/27/94	Cesium-137	0.4 U	---	6.1	Filtered		LAS
RD-33C		Primary	02/27/94	Cobalt-57	0.2 U	---	3.7	Filtered		LAS
RD-33C		Primary	02/27/94	Cobalt-60	0 U	---	5.4	Filtered		LAS
RD-33C		Primary	05/09/94	Cesium-137	-1.1 U	5	7	Filtered		LAS
RD-33C		Primary	05/09/94	Cesium-137	0 U	---	7.8	Unfiltered		LAS
RD-33C		Primary	05/09/94	Cobalt-57	1.6 U	2.2	3.7	Filtered		LAS
RD-33C		Primary	05/09/94	Cobalt-57	-1.5 U	2	3.5	Unfiltered		LAS
RD-33C		Primary	05/09/94	Cobalt-60	0.9 U	3.6	6.7	Filtered		LAS
RD-33C		Primary	05/09/94	Cobalt-60	-0.7 U	4.1	7.3	Unfiltered		LAS
RD-33C		Primary	08/17/94	Cesium-134	7 U	---	39	Filtered		LAS
RD-33C		Primary	08/17/94	Cesium-137	15 U	---	47	Filtered		LAS
RD-33C		Primary	08/17/94	Cobalt-57	5 U	---	21	Filtered		LAS
RD-33C		Primary	08/17/94	Cobalt-60	2 U	---	55	Filtered		LAS
RD-33C		Primary	02/07/95	Cesium-134	1 U	3.5	7.4	Filtered		LAS
RD-33C		Primary	02/07/95	Cesium-137	6.4 U	8.2	9.8	Filtered		LAS
RD-33C		Primary	02/07/95	Cobalt-57	-1.4 U	3	5.4	Filtered		LAS
RD-33C		Primary	02/07/95	Cobalt-60	-1.1 U	4.3	10	Filtered		LAS
RD-33C		Primary	08/09/95	Cesium-134	1.4 U	4	6.6	Filtered		LAS
RD-33C		Primary	08/09/95	Cesium-137	1.3 U	4.8	8.4	Filtered		LAS
RD-33C		Primary	08/09/95	Cobalt-57	-0.1 U	2.5	4.3	Filtered		LAS
RD-33C		Primary	08/09/95	Cobalt-60	-4.9 U	2.6	11	Filtered		LAS
RD-33C		Primary	02/19/96	Cesium-134	2.2 U	1.7	3.1	Filtered		LAS
RD-33C		Primary	02/19/96	Cesium-137	-0.4 U	2.2	4	Filtered		LAS
RD-33C		Primary	02/19/96	Cobalt-57	1 U	2.5	3.1	Filtered		LAS
RD-33C		Primary	02/19/96	Cobalt-60	0.4 U	2	3.8	Filtered		LAS
RD-33C		Primary	08/22/96	Cesium-134	-2.7 U	3.1	7.6	Filtered		LAS
RD-33C		Primary	08/22/96	Cesium-137	-0.8 U	5.3	9.7	Filtered		LAS
RD-33C		Primary	08/22/96	Cobalt-57	-1.2 U	2	5	Filtered		LAS
RD-33C		Primary	08/22/96	Cobalt-60	-1.6 U	4.6	11	Filtered		LAS
RD-33C		Primary	02/25/97	Cesium-134	2.3 U	3.2	6.9	Filtered		LAS
RD-33C		Primary	02/25/97	Cesium-137	2.5 U	6	7.5	Filtered		LAS
RD-33C		Primary	02/25/97	Cobalt-57	-1.7 U	1.9	5	Filtered		LAS
RD-33C		Primary	02/25/97	Cobalt-60	-1 U	3.3	9.8	Filtered		LAS
RD-33C		Primary	08/21/97	Cesium-134	-0.2 U	3	6.8	Filtered		LAS
RD-33C		Primary	08/21/97	Cesium-137	2.1 U	4	6.4	Filtered		LAS
RD-33C		Primary	08/21/97	Cobalt-57	-1.3 U	1.6	4.2	Filtered		LAS
RD-33C		Primary	08/21/97	Cobalt-60	-1 U	2.2	8.1	Filtered		LAS
RD-33C		Primary	05/27/98	Cesium-134	19 U	---	19	Filtered		TN
RD-33C		Primary	05/27/98	Cesium-137	15.2 U	---	15.2	Filtered		TN
RD-33C		Primary	05/27/98	Cobalt-57	6.21 U	---	6.21	Filtered		TN
RD-33C		Primary	05/27/98	Cobalt-60	21.4 U	---	21.4	Filtered		TN

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-33C		Primary	08/17/98	Cesium-134	34.2 U	---	34.2	Filtered		TN
RD-33C		Primary	08/17/98	Cesium-137	24.8 U	---	24.8	Filtered		TN
RD-33C		Primary	08/17/98	Cobalt-57	12.6 U	---	12.6	Filtered		TN
RD-33C		Primary	08/17/98	Cobalt-60	37.8 U	---	37.8	Filtered		TN
RD-33C		Primary	02/03/99	Cesium-134	13.6 U	---	13.6	Filtered		TN
RD-33C		Primary	02/03/99	Cesium-137	12 U	---	12	Filtered		TN
RD-33C		Primary	02/03/99	Cobalt-57	4.12 U	---	4.12	Filtered		TN
RD-33C		Primary	02/03/99	Cobalt-60	16.4 U	---	16.4	Filtered		TN
RD-33C		Primary	02/09/00	Cesium-134	12.2 U	---	12.2	Filtered		TR
RD-33C		Primary	02/09/00	Cesium-137	11 U	---	11	Filtered		TR
RD-33C		Primary	02/09/00	Cobalt-57	9.56 U	---	9.56	Filtered		TR
RD-33C		Primary	02/09/00	Cobalt-60	14.5 U	---	14.5	Filtered		TR
RD-33C		Primary	02/17/01	Cesium-134	12.5 U	---	12.5	Filtered		ES
RD-33C		Primary	02/17/01	Cesium-137	10.2 U	---	10.2	Filtered		ES
RD-33C		Primary	02/17/01	Cobalt-57	6.76 U	---	6.76	Filtered		ES
RD-33C		Primary	02/17/01	Cobalt-60	9.64 U	---	9.64	Filtered		ES
RD-33C		Primary	02/15/02	Cesium-134	5 U	3	5	Filtered		DL
RD-33C		Primary	02/15/02	Cesium-137	5 U	3	5	Filtered		DL
RD-33C		Primary	02/15/02	Cobalt-57	3 U	1	3	Filtered		DL
RD-33C		Primary	02/15/02	Cobalt-60	3 U	1	3	Filtered		DL
RD-33C		Primary	02/10/03	Cesium-134	2.8 U	---	2.8	Filtered		ES
RD-33C		Primary	02/10/03	Cesium-137	2.37 U	---	2.37	Filtered		ES
RD-33C		Primary	02/10/03	Cobalt-57	1.8 U	---	1.8	Filtered		ES
RD-33C		Primary	02/10/03	Cobalt-60	2.39 U	---	2.39	Filtered		ES
RD-33C		Primary	11/04/04	Cesium-134	2.82 U	---	2.82	Filtered		ES
RD-33C		Split	11/04/04	Cesium-134	0.195 U	0.54	0.952	Filtered		STL
RD-33C		Primary	11/04/04	Cesium-137	2.17 U	---	2.17	Filtered		ES
RD-33C		Split	11/04/04	Cesium-137	0.202 U	0.51	0.883	Filtered		STL
RD-33C		Primary	11/04/04	Cobalt-57	1.51 U	---	1.51	Filtered		ES
RD-33C		Split	11/04/04	Cobalt-57	1.26 U	2.6	3.81	Filtered		STL
RD-33C		Primary	11/04/04	Cobalt-60	2.57 U	---	2.57	Filtered		ES
RD-33C		Split	11/04/04	Cobalt-60	0.462 U	0.5	0.923	Filtered		STL
RD-33C		Primary	11/04/04	Europium-152	5.52 U	---	5.52	Filtered		ES
RD-33C		Split	11/04/04	Europium-152	0.407 U	1.3	2.24	Filtered		STL
RD-33C		Primary	11/04/04	Europium-154	7.27 U	---	7.27	Filtered		ES
RD-33C		Split	11/04/04	Europium-154	0.31 U	1.5	2.57	Filtered		STL
RD-33C		Primary	11/04/04	Manganese-54	2.37 U	---	2.37	Filtered		ES
RD-33C		Split	11/04/04	Manganese-54	-0.26 U	0.48	0.812	Filtered		STL
RD-33C		Primary	11/04/04	Sodium-22	2.52 U	---	2.52	Filtered		ES
RD-33C		Split	11/04/04	Sodium-22	0.125 U	0.52	0.917	Filtered		STL
RD-33C		Primary	02/16/05	Cesium-134	1.71 U	---	1.71	Filtered		ES
RD-33C		Primary	02/16/05	Cesium-137	1.34 U	---	1.34	Filtered		ES
RD-33C		Primary	02/16/05	Cobalt-57	0.554 U	---	0.554	Filtered		ES
RD-33C		Primary	02/16/05	Cobalt-60	1.56 U	---	1.56	Filtered		ES
RD-33C		Primary	02/16/05	Europium-152	3.44 U	---	3.44	Filtered		ES
RD-33C		Primary	02/16/05	Europium-154	4.21 U	---	4.21	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-33C		Primary	02/16/05	Manganese-54	1.32 U	---	1.32	Filtered		ES
RD-33C		Primary	02/16/05	Sodium-22	1.44 U	---	1.44	Filtered		ES
RD-33C		Primary	02/16/06	Cesium-134	1.85 U	---	1.85	Filtered		ES
RD-33C		Primary	02/16/06	Cesium-137	1.89 U	---	1.89	Filtered		ES
RD-33C		Primary	02/16/06	Cobalt-57	0.635 U	---	0.635	Filtered		ES
RD-33C		Primary	02/16/06	Cobalt-60	1.04 U	---	1.04	Filtered		ES
RD-33C		Primary	02/16/06	Europium-152	2.16 U	---	2.16	Filtered		ES
RD-33C		Primary	02/16/06	Europium-154	2.45 U	---	2.45	Filtered		ES
RD-33C		Primary	02/16/06	Manganese-54	0.91 U	---	0.91	Filtered		ES
RD-33C		Primary	02/16/06	Sodium-22	0.848 U	---	0.848	Filtered		ES
RD-33C		Primary	02/06/07	Cesium-134	0.724 U	---	0.724	Filtered		ES
RD-33C		Primary	02/06/07	Cesium-137	0.581 U	---	0.581	Filtered		ES
RD-33C		Primary	02/06/07	Cobalt-57	0.429 U	---	0.429	Filtered		ES
RD-33C		Primary	02/06/07	Cobalt-60	0.634 U	---	0.634	Filtered		ES
RD-33C		Primary	02/06/07	Europium-152	1.54 U	---	1.54	Filtered		ES
RD-33C		Primary	02/06/07	Europium-154	1.63 U	---	1.63	Filtered		ES
RD-33C		Primary	02/06/07	Manganese-54	0.54 U	---	0.54	Filtered		ES
RD-33C		Primary	02/06/07	Sodium-22	0.556 U	---	0.556	Filtered		ES
RD-33C		Primary	02/12/08	Cesium-134	1.88 U	---	1.88	Filtered		ES
RD-33C		Primary	02/12/08	Cesium-137	1.46 U	---	1.46	Filtered		ES
RD-33C		Primary	02/12/08	Cobalt-57	1.01 U	---	1.01	Filtered		ES
RD-33C		Primary	02/12/08	Cobalt-60	1.46 U	---	1.46	Filtered		ES
RD-33C		Primary	02/12/08	Europium-152	4.27 U	---	4.27	Filtered		ES
RD-33C		Primary	02/12/08	Europium-154	4.74 U	---	4.74	Filtered		ES
RD-33C		Primary	02/12/08	Manganese-54	1.45 U	---	1.45	Filtered		ES
RD-33C		Primary	02/12/08	Sodium-22	1.61 U	---	1.61	Filtered		ES
RD-34A		Primary	12/05/91	Cesium-137	1.39 U	4.8	10	Filtered		IT
RD-34A		Split	12/05/91	Cesium-137	10 U	---	10	Filtered		CEP
RD-34A		Primary	03/10/92	Cesium-137	0 U	---	---	Filtered		CEP
RD-34A		Split	03/10/92	Cesium-137	0 U	---	---	Filtered		TEL
RD-34A		Primary	06/08/92	Cesium-137	0 U	---	---	Filtered		CEP
RD-34A		Split	09/13/92	Cesium-134	24 U	---	24	Filtered		BL
RD-34A		Primary	09/13/92	Cesium-137	0 U	---	---	Filtered		CEP
RD-34A		Split	09/13/92	Cesium-137	24 U	---	24	Filtered		BL
RD-34A		Split	09/13/92	Cobalt-57	2 U	---	2	Filtered		BL
RD-34A		Split	09/13/92	Cobalt-60	2 U	---	2	Filtered		BL
RD-34A		Split	12/05/92	Cesium-134	2 U	---	2	Filtered		BL
RD-34A		Primary	12/05/92	Cesium-137	0 U	---	---	Filtered		CEP
RD-34A		Split	12/05/92	Cesium-137	2 U	---	2	Filtered		BL
RD-34A		Split	12/05/92	Cobalt-57	24 U	---	24	Filtered		BL
RD-34A		Split	12/05/92	Cobalt-60	24 U	---	24	Filtered		BL
RD-34A		Primary	03/09/93	Cesium-137	0 U	---	---	Filtered		CEP
RD-34A		Primary	08/24/93	Cesium-137	0 U	---	---	Filtered		CEP
RD-34A		Primary	11/18/93	Antimony-125	8.33 U	---	8.33	Filtered		LAS
RD-34A		Primary	11/18/93	Beryllium-7	35.8 U	---	35.8	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-34A		Primary	11/18/93	Cesium-134	9.46 U	---	9.46	Filtered		CEP
RD-34A		Primary	11/18/93	Cesium-137	4.46 U	---	4.46	Filtered		CEP
RD-34A		Primary	11/18/93	Cobalt-60	2.62 U	---	2.62	Filtered		CEP
RD-34A		Primary	11/18/93	Europium-152	10.3 U	---	10.3	Filtered		LAS
RD-34A		Primary	11/18/93	Europium-154	6.16 U	---	6.16	Filtered		LAS
RD-34A		Primary	11/18/93	Europium-155	9.12 U	---	9.12	Filtered		LAS
RD-34A		Primary	11/18/93	Manganese-54	6.08 U	---	6.08	Filtered		LAS
RD-34A		Primary	11/18/93	Ruthenium-106	20 U	---	20	Filtered		LAS
RD-34A		Primary	11/18/93	Silver-110m	4.85 U	---	4.85	Filtered		LAS
RD-34A		Primary	02/26/94	Cesium-137	19	7.3	6.4	Filtered		LAS
RD-34A		Reanalysis of Primary	02/26/94	Cesium-137	-0.6 U	---	2.7	Filtered		LAS
RD-34A		Primary	02/26/94	Cobalt-57	2 U	---	3.9	Filtered		LAS
RD-34A		Reanalysis of Primary	02/26/94	Cobalt-57	-0.3 U	---	2.6	Filtered		LAS
RD-34A		Primary	02/26/94	Cobalt-60	14.6	2.3	6.8	Filtered		LAS
RD-34A		Reanalysis of Primary	02/26/94	Cobalt-60	0.1 U	---	2.4	Filtered		LAS
RD-34A		Primary	05/09/94	Cesium-137	0.9 U	6.2	8.6	Filtered		LAS
RD-34A		Primary	05/09/94	Cesium-137	0 U	---	9.2	Unfiltered		LAS
RD-34A		Primary	05/09/94	Cobalt-57	-3.1 U	2.9	5.2	Filtered		LAS
RD-34A		Primary	05/09/94	Cobalt-57	0.8 U	3.4	5.7	Unfiltered		LAS
RD-34A		Primary	05/09/94	Cobalt-60	3.7 U	4	7.2	Filtered		LAS
RD-34A		Primary	05/09/94	Cobalt-60	4.5 U	4.3	8	Unfiltered		LAS
RD-34A		Primary	08/09/94	Cesium-134	-0.2 U	---	4.6	Filtered		LAS
RD-34A		Reanalysis of Primary	08/09/94	Cesium-134	1.6 U	3.4	6.2	Filtered		LAS
RD-34A		Primary	08/09/94	Cesium-137	9.2	4.4	5	Filtered		LAS
RD-34A		Reanalysis of Primary	08/09/94	Cesium-137	-0.3 U	5.8	9	Filtered		LAS
RD-34A		Primary	08/09/94	Cobalt-57	2.6 U	---	4.9	Filtered		LAS
RD-34A		Reanalysis of Primary	08/09/94	Cobalt-57	-1.1 U	3	5.3	Filtered		LAS
RD-34A		Primary	08/09/94	Cobalt-60	1.5 U	---	4.6	Filtered		LAS
RD-34A		Reanalysis of Primary	08/09/94	Cobalt-60	1.1 U	4.4	8.8	Filtered		LAS
RD-34A		Primary	02/07/95	Cesium-134	2.6 U	4	7.7	Filtered		LAS
RD-34A		Primary	02/07/95	Cesium-137	-0.7 U	2.5	8.3	Filtered		LAS
RD-34A		Primary	02/07/95	Cobalt-57	1.1 U	2.8	4.6	Filtered		LAS
RD-34A		Primary	02/07/95	Cobalt-60	-0.9 U	4.4	12	Filtered		LAS
RD-34A		Primary	08/09/95	Cesium-134	0.4 U	3.9	7.2	Filtered		LAS
RD-34A		Primary	08/09/95	Cesium-137	3.3 U	4.8	7.9	Filtered		LAS
RD-34A		Primary	08/09/95	Cobalt-57	-0.9 U	2.5	4.4	Filtered		LAS
RD-34A		Primary	08/09/95	Cobalt-60	-2.7 U	2.2	11	Filtered		LAS
RD-34A		Primary	02/19/96	Cesium-134	-0.7 U	2.9	6.9	Filtered		LAS
RD-34A		Primary	02/19/96	Cesium-137	-2.8 U	3.9	11	Filtered		LAS
RD-34A		Primary	02/19/96	Cobalt-57	0.2 U	3	5.1	Filtered		LAS
RD-34A		Primary	02/19/96	Cobalt-60	-0.1 U	5.1	11	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-34A		Primary	08/18/96	Cesium-134	-0.2 U	4	8	Filtered		LAS
RD-34A		Primary	08/18/96	Cesium-137	-3.9 U	5.9	11	Filtered		LAS
RD-34A		Primary	08/18/96	Cobalt-57	1.1 U	3.8	5.1	Filtered		LAS
RD-34A		Primary	08/18/96	Cobalt-60	-4.4 U	2.8	9.6	Filtered		LAS
RD-34A		Primary	02/07/97	Cesium-134	-3.7 U	1.9	6.1	Filtered		LAS
RD-34A		Primary	02/07/97	Cesium-137	-13.3 U	3.6	8.5	Filtered		LAS
RD-34A		Primary	02/07/97	Cobalt-57	0.6 U	3.9	5.6	Filtered		LAS
RD-34A		Primary	02/07/97	Cobalt-60	-2.6 U	2.2	6	Filtered		LAS
RD-34A		Primary	05/27/98	Cesium-134	20.8 U	---	20.8	Filtered		TN
RD-34A		Primary	05/27/98	Cesium-137	13.8 U	---	13.8	Filtered		TN
RD-34A		Primary	05/27/98	Cobalt-57	9.04 U	---	9.04	Filtered		TN
RD-34A		Primary	05/27/98	Cobalt-60	19.5 U	---	19.5	Filtered		TN
RD-34A		Primary	08/18/98	Cesium-134	15.9 U	---	15.9	Filtered		TN
RD-34A		Primary	08/18/98	Cesium-137	14.1 U	---	14.1	Filtered		TN
RD-34A		Primary	08/18/98	Cobalt-57	7.03 U	---	7.03	Filtered		TN
RD-34A		Primary	08/18/98	Cobalt-60	16.3 U	---	16.3	Filtered		TN
RD-34A		Primary	05/09/01	Cesium-134	8.96 U	---	8.96	Filtered		ES
RD-34A		Primary	05/09/01	Cesium-137	6.86 U	---	6.86	Filtered		ES
RD-34A		Primary	05/09/01	Cobalt-57	3.61 U	---	3.61	Filtered		ES
RD-34A		Primary	05/09/01	Cobalt-60	8.2 U	---	8.2	Filtered		ES
RD-34A		Primary	05/16/03	Cesium-134	1.26 U	---	1.26	Filtered		ES
RD-34A		Primary	05/16/03	Cesium-137	0.908 U	---	0.908	Filtered		ES
RD-34A		Primary	05/16/03	Cobalt-57	0.496 U	---	0.496	Filtered		ES
RD-34A		Primary	05/16/03	Cobalt-60	1.05 U	---	1.05	Filtered		ES
RD-34A		Primary	05/17/04	Cesium-134	13.7 U	---	13.7	Filtered		ES
RD-34A		Primary	05/17/04	Cesium-137	12.2 U	---	12.2	Filtered		ES
RD-34A		Primary	05/17/04	Cobalt-57	8.87 U	---	8.87	Filtered		ES
RD-34A		Primary	05/17/04	Cobalt-60	12.2 U	---	12.2	Filtered		ES
RD-34A		Primary	02/17/05	Cesium-134	1.61 U	---	1.61	Filtered		ES
RD-34A		Primary	02/17/05	Cesium-137	1.23 U	---	1.23	Filtered		ES
RD-34A		Primary	02/17/05	Cobalt-57	0.552 U	---	0.552	Filtered		ES
RD-34A		Primary	02/17/05	Cobalt-60	1.39 U	---	1.39	Filtered		ES
RD-34A		Primary	02/17/05	Europium-152	3.3 U	---	3.3	Filtered		ES
RD-34A		Primary	02/17/05	Europium-154	4.26 U	---	4.26	Filtered		ES
RD-34A		Primary	02/17/05	Manganese-54	1.33 U	---	1.33	Filtered		ES
RD-34A		Primary	02/17/05	Sodium-22	1.46 U	---	1.46	Filtered		ES
RD-34A		Primary	02/21/06	Cesium-134	1.35 U	---	1.35	Filtered		ES
RD-34A		Primary	02/21/06	Cesium-137	0.937 U	---	0.937	Filtered		ES
RD-34A		Primary	02/21/06	Cobalt-57	0.662 U	---	0.662	Filtered		ES
RD-34A		Primary	02/21/06	Cobalt-60	1.02 U	---	1.02	Filtered		ES
RD-34A		Primary	02/21/06	Europium-152	2.26 U	---	2.26	Filtered		ES
RD-34A		Primary	02/21/06	Europium-154	2.48 U	---	2.48	Filtered		ES
RD-34A		Primary	02/21/06	Manganese-54	0.846 U	---	0.846	Filtered		ES
RD-34A		Primary	02/21/06	Sodium-22	0.855 U	---	0.855	Filtered		ES
RD-34A		Primary	02/15/07	Cesium-134	1.36 U	---	1.36	Filtered		ES
RD-34A		Primary	02/15/07	Cesium-137	1.19 U	---	1.19	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-34A		Primary	02/15/07	Cobalt-57	0.866 U	---	0.866	Filtered		ES
RD-34A		Primary	02/15/07	Cobalt-60	1.11 U	---	1.11	Filtered		ES
RD-34A		Primary	02/15/07	Europium-152	3.01 U	---	3.01	Filtered		ES
RD-34A		Primary	02/15/07	Europium-154	3.1 U	---	3.1	Filtered		ES
RD-34A		Primary	02/15/07	Manganese-54	1.05 U	---	1.05	Filtered		ES
RD-34A		Primary	02/15/07	Sodium-22	1.06 U	---	1.06	Filtered		ES
RD-34A		Primary	02/06/08	Cesium-134	0.82 U	---	0.82	Filtered		ES
RD-34A		Primary	02/06/08	Cesium-137	0.707 U	---	0.707	Filtered		ES
RD-34A		Primary	02/06/08	Cobalt-57	0.542 U	---	0.542	Filtered		ES
RD-34A		Primary	02/06/08	Cobalt-60	0.599 U	---	0.599	Filtered		ES
RD-34A		Primary	02/06/08	Europium-152	2.26 U	---	2.26	Filtered		ES
RD-34A		Primary	02/06/08	Europium-154	1.84 U	---	1.84	Filtered		ES
RD-34A		Primary	02/06/08	Manganese-54	0.61 U	---	0.61	Filtered		ES
RD-34A		Primary	02/06/08	Sodium-22	0.626 U	---	0.626	Filtered		ES
RD-34B		Primary	12/05/91	Cesium-137	0.634 U	4.71	10	Filtered		IT
RD-34B		Primary	03/10/92	Cesium-137	0 U	---	---	Filtered		CEP
RD-34B		Split	03/10/92	Cesium-137	0 U	---	---	Filtered		TEL
RD-34B		Primary	06/08/92	Cesium-137	0 U	---	---	Filtered		CEP
RD-34B		Split	09/13/92	Cesium-134	26 U	---	26	Filtered		BL
RD-34B		Primary	09/13/92	Cesium-137	0 U	---	---	Filtered		CEP
RD-34B		Split	09/13/92	Cesium-137	26 U	---	26	Filtered		BL
RD-34B		Split	09/13/92	Cobalt-57	26 U	---	26	Filtered		BL
RD-34B		Split	09/13/92	Cobalt-60	26 U	---	26	Filtered		BL
RD-34B		Primary	12/05/92	Cesium-137	0 U	---	---	Filtered		CEP
RD-34B		Primary	03/09/93	Cesium-137	0 U	---	---	Filtered		CEP
RD-34B		Reanalysis of Primary	03/09/93	Cesium-137	0 U	---	---	Filtered		CEP
RD-34B		Primary	03/09/93	Cobalt-60	80	17	---	Filtered		CEP
RD-34B		Primary	08/24/93	Cesium-137	0 U	---	---	Filtered		CEP
RD-34B		Primary	02/26/94	Cesium-137	3.4 U	---	5.6	Filtered		LAS
RD-34B		Primary	02/26/94	Cobalt-57	-0.6 U	---	3.7	Filtered		LAS
RD-34B		Primary	02/26/94	Cobalt-60	-1 U	---	4.4	Filtered		LAS
RD-34B		Primary	05/10/94	Cesium-137	-0.6 U	2.5	3.6	Filtered		ES
RD-34B		Primary	05/10/94	Cesium-137	0.8 U	5.5	7.5	Unfiltered		LAS
RD-34B		Primary	05/10/94	Cobalt-57	-1.2 U	1.7	3	Filtered		ES
RD-34B		Primary	05/10/94	Cobalt-57	-1.4 U	2.4	4.2	Unfiltered		LAS
RD-34B		Primary	05/10/94	Cobalt-60	-0.3 U	1.6	3.6	Filtered		ES
RD-34B		Primary	05/10/94	Cobalt-60	2.4 U	3.5	6.6	Unfiltered		LAS
RD-34B		Primary	08/09/94	Cesium-134	-1.1 U	---	6.2	Filtered		LAS
RD-34B		Primary	08/09/94	Cesium-137	1.5 U	---	6.3	Filtered		LAS
RD-34B		Primary	08/09/94	Cobalt-57	0.4 U	---	3.4	Filtered		LAS
RD-34B		Primary	08/09/94	Cobalt-60	0 U	---	6	Filtered		LAS
RD-34B		Primary	02/07/95	Cesium-134	-0.5 U	4.6	8.9	Filtered		LAS
RD-34B		Primary	02/07/95	Cesium-137	-1.4 U	4	12	Filtered		LAS
RD-34B		Primary	02/07/95	Cobalt-57	-2 U	3.4	6.1	Filtered		LAS
RD-34B		Primary	02/07/95	Cobalt-60	2.3 U	3.2	12	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-34B		Primary	08/10/95	Cesium-134	-1.8 U	1.8	6.9	Filtered		LAS
RD-34B		Primary	08/10/95	Cesium-137	0.8 U	4.9	8.7	Filtered		LAS
RD-34B		Primary	08/10/95	Cobalt-57	2.1 U	2.5	4	Filtered		LAS
RD-34B		Primary	08/10/95	Cobalt-60	-0.9 U	3.1	10	Filtered		LAS
RD-34B		Primary	02/19/96	Cesium-134	-0.6 U	2.6	7.2	Filtered		LAS
RD-34B		Primary	02/19/96	Cesium-137	-1.7 U	3.6	10	Filtered		LAS
RD-34B		Primary	02/19/96	Cobalt-57	-2.1 U	2.8	5.1	Filtered		LAS
RD-34B		Primary	02/19/96	Cobalt-60	-0.2 U	4.1	9.2	Filtered		LAS
RD-34B		Primary	08/18/96	Cesium-134	-0.3 U	3.7	8	Filtered		LAS
RD-34B		Primary	08/18/96	Cesium-137	-0.7 U	6.7	9.7	Filtered		LAS
RD-34B		Primary	08/18/96	Cobalt-57	0.9 U	3.4	4.6	Filtered		LAS
RD-34B		Primary	08/18/96	Cobalt-60	-1.8 U	4.3	9	Filtered		LAS
RD-34B		Primary	02/07/97	Cesium-134	0.3 U	3.9	7.9	Filtered		LAS
RD-34B		Primary	02/07/97	Cesium-137	-0.5 U	6	11	Filtered		LAS
RD-34B		Primary	02/07/97	Cobalt-57	-2.9 U	3.1	5.6	Filtered		LAS
RD-34B		Primary	02/07/97	Cobalt-60	3.1 U	4	8.8	Filtered		LAS
RD-34B		Primary	08/21/97	Cesium-134	1 U	4.4	7.1	Filtered		LAS
RD-34B		Primary	08/21/97	Cesium-137	-1.4 U	5.5	9.9	Filtered		LAS
RD-34B		Primary	08/21/97	Cobalt-57	3 U	2.8	4.4	Filtered		LAS
RD-34B		Primary	08/21/97	Cobalt-60	-2.6 U	3.5	10	Filtered		LAS
RD-34B		Primary	05/27/98	Cesium-134	15.8 U	---	15.8	Filtered		TN
RD-34B		Primary	05/27/98	Cesium-137	13.1 U	---	13.1	Filtered		TN
RD-34B		Primary	05/27/98	Cobalt-57	5.77 U	---	5.77	Filtered		TN
RD-34B		Primary	05/27/98	Cobalt-60	18.8 U	---	18.8	Filtered		TN
RD-34B		Primary	08/18/98	Cesium-134	15 U	---	15	Filtered		TN
RD-34B		Primary	08/18/98	Cesium-137	15.6 U	---	15.6	Filtered		TN
RD-34B		Primary	08/18/98	Cobalt-57	8.12 U	---	8.12	Filtered		TN
RD-34B		Primary	08/18/98	Cobalt-60	13.9 U	---	13.9	Filtered		TN
RD-34B		Primary	02/04/99	Cesium-134	15.3 U	---	15.3	Filtered		TN
RD-34B		Primary	02/04/99	Cesium-137	13.3 U	---	13.3	Filtered		TN
RD-34B		Primary	02/04/99	Cobalt-57	8.24 U	---	8.24	Filtered		TN
RD-34B		Primary	02/04/99	Cobalt-60	16.8 U	---	16.8	Filtered		TN
RD-34B		Primary	02/05/00	Cesium-134	15.1 U	---	15.1	Filtered		TR
RD-34B		Primary	02/05/00	Cesium-137	12.7 U	---	12.7	Filtered		TR
RD-34B		Primary	02/05/00	Cobalt-57	7.83 U	---	7.83	Filtered		TR
RD-34B		Primary	02/05/00	Cobalt-60	14.7 U	---	14.7	Filtered		TR
RD-34B		Primary	02/16/01	Cesium-134	18.8 U	---	18.8	Filtered		ES
RD-34B		Primary	02/16/01	Cesium-137	14.1 U	---	14.1	Filtered		ES
RD-34B		Primary	02/16/01	Cobalt-57	8.04 U	---	8.04	Filtered		ES
RD-34B		Primary	02/16/01	Cobalt-60	16 U	---	16	Filtered		ES
RD-34B		Primary	02/15/02	Cesium-134	3 U	1	3	Filtered		DL
RD-34B		Primary	02/15/02	Cesium-137	3 U	1	3	Filtered		DL
RD-34B		Primary	02/15/02	Cobalt-57	5 U	3	5	Filtered		DL
RD-34B		Primary	02/15/02	Cobalt-60	5 U	3	5	Filtered		DL
RD-34B		Primary	02/06/03	Cesium-134	2.67 U	---	2.67	Filtered		ES
RD-34B		Primary	02/06/03	Cesium-137	2.33 U	---	2.33	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-34B		Primary	02/06/03	Cobalt-57	1.44 U	---	1.44	Filtered		ES
RD-34B		Primary	02/06/03	Cobalt-60	2.64 U	---	2.64	Filtered		ES
RD-34B		Primary	02/24/04	Cesium-134	11.8 U	---	11.8	Filtered		ES
RD-34B		Primary	02/24/04	Cesium-137	8.89 U	---	8.89	Filtered		ES
RD-34B		Primary	02/24/04	Cobalt-57	6.5 U	---	6.5	Filtered		ES
RD-34B		Primary	02/24/04	Cobalt-60	11.1 U	---	11.1	Filtered		ES
RD-34B		Primary	02/15/05	Cesium-134	1.51 U	---	1.51	Filtered		ES
RD-34B		Primary	02/15/05	Cesium-137	1.23 U	---	1.23	Filtered		ES
RD-34B		Primary	02/15/05	Cobalt-57	0.859 U	---	0.859	Filtered		ES
RD-34B		Primary	02/15/05	Cobalt-60	1.33 U	---	1.33	Filtered		ES
RD-34B		Primary	02/15/05	Europium-152	3.11 U	---	3.11	Filtered		ES
RD-34B		Primary	02/15/05	Europium-154	3.9 U	---	3.9	Filtered		ES
RD-34B		Primary	02/15/05	Manganese-54	1.24 U	---	1.24	Filtered		ES
RD-34B		Primary	02/15/05	Sodium-22	1.27 U	---	1.27	Filtered		ES
RD-34B		Primary	02/17/06	Cesium-134	1.31 U	---	1.31	Filtered		ES
RD-34B		Primary	02/17/06	Cesium-137	1.16 U	---	1.16	Filtered		ES
RD-34B		Primary	02/17/06	Cobalt-57	0.671 U	---	0.671	Filtered		ES
RD-34B		Primary	02/17/06	Cobalt-60	1.26 U	---	1.26	Filtered		ES
RD-34B		Primary	02/17/06	Europium-152	2.65 U	---	2.65	Filtered		ES
RD-34B		Primary	02/17/06	Europium-154	3.17 U	---	3.17	Filtered		ES
RD-34B		Primary	02/17/06	Manganese-54	1.14 U	---	1.14	Filtered		ES
RD-34B		Primary	02/17/06	Sodium-22	1.09 U	---	1.09	Filtered		ES
RD-34B		Primary	08/14/07	Cesium-134	0.708 U	---	0.708	Filtered		ES
RD-34B		Primary	08/14/07	Cesium-137	0.6 U	---	0.6	Filtered		ES
RD-34B		Primary	08/14/07	Cobalt-57	0.338 U	---	0.338	Filtered		ES
RD-34B		Primary	08/14/07	Cobalt-60	0.623 U	---	0.623	Filtered		ES
RD-34B		Primary	08/14/07	Europium-152	1.75 U	---	1.75	Filtered		ES
RD-34B		Primary	08/14/07	Europium-154	1.64 U	---	1.64	Filtered		ES
RD-34B		Primary	08/14/07	Manganese-54	0.618 U	---	0.618	Filtered		ES
RD-34B		Primary	08/14/07	Sodium-22	0.558 U	---	0.558	Filtered		ES
RD-34B		Primary	02/06/08	Cesium-134	1.68 U	---	1.68	Filtered		ES
RD-34B		Primary	02/06/08	Cesium-137	1.29 U	---	1.29	Filtered		ES
RD-34B		Primary	02/06/08	Cobalt-57	0.746 U	---	0.746	Filtered		ES
RD-34B		Primary	02/06/08	Cobalt-60	1.38 U	---	1.38	Filtered		ES
RD-34B		Primary	02/06/08	Europium-152	3.36 U	---	3.36	Filtered		ES
RD-34B		Primary	02/06/08	Europium-154	4.04 U	---	4.04	Filtered		ES
RD-34B		Primary	02/06/08	Manganese-54	1.32 U	---	1.32	Filtered		ES
RD-34B		Primary	02/06/08	Sodium-22	1.38 U	---	1.38	Filtered		ES
RD-34C		Primary	12/06/91	Cesium-137	-0.676 U	4.54	10	Filtered		IT
RD-34C		Primary	03/10/92	Cesium-137	0 U	---	---	Filtered		TEL
RD-34C		Split	03/10/92	Cesium-137	0 U	---	---	Filtered		CEP
RD-34C		Primary	06/08/92	Cesium-137	0 U	---	---	Filtered		CEP
RD-34C		Split	09/13/92	Cesium-134	29 U	---	29	Filtered		BL
RD-34C		Primary	09/13/92	Cesium-137	0 U	---	---	Filtered		CEP
RD-34C		Split	09/13/92	Cesium-137	29 U	---	29	Filtered		BL

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-34C		Split	09/13/92	Cobalt-57	29 U	---	29	Filtered		BL
RD-34C		Split	09/13/92	Cobalt-60	29 U	---	29	Filtered		BL
RD-34C		Primary	12/05/92	Cesium-137	0 U	---	---	Filtered		CEP
RD-34C		Primary	03/09/93	Cesium-137	0 U	---	---	Filtered		CEP
RD-34C		Primary	08/24/93	Cesium-137	0 U	---	---	Filtered		CEP
RD-34C		Primary	02/26/94	Cesium-137	1.9 U	---	6.4	Filtered		LAS
RD-34C		Primary	02/26/94	Cobalt-57	-0.6 U	---	3.8	Filtered		LAS
RD-34C		Primary	02/26/94	Cobalt-60	1.1 U	---	4.4	Filtered		LAS
RD-34C		Primary	05/09/94	Cesium-137	0.5 U	5.4	7.5	Filtered		LAS
RD-34C		Primary	05/09/94	Cesium-137	-2.2 U	5.7	8.3	Unfiltered		LAS
RD-34C		Primary	05/09/94	Cobalt-57	-1 U	2.2	3.9	Filtered		LAS
RD-34C		Primary	05/09/94	Cobalt-57	0.2 U	2.4	4.1	Unfiltered		LAS
RD-34C		Primary	05/09/94	Cobalt-60	0.9 U	3.6	7.6	Filtered		LAS
RD-34C		Primary	05/09/94	Cobalt-60	-0.1 U	3.7	8.4	Unfiltered		LAS
RD-34C		Primary	08/09/94	Cesium-134	-1.1 U	---	6.3	Filtered		LAS
RD-34C		Primary	08/09/94	Cesium-137	-0.4 U	---	7.5	Filtered		LAS
RD-34C		Primary	08/09/94	Cobalt-57	-0.7 U	---	3.5	Filtered		LAS
RD-34C		Primary	08/09/94	Cobalt-60	-1.6 U	---	6.5	Filtered		LAS
RD-34C		Primary	02/07/95	Cesium-134	-2.5 U	3.2	7.6	Filtered		LAS
RD-34C		Primary	02/07/95	Cesium-137	1.5 U	7.7	10	Filtered		LAS
RD-34C		Primary	02/07/95	Cobalt-57	-1.3 U	3	5.4	Filtered		LAS
RD-34C		Primary	02/07/95	Cobalt-60	-1.1 U	3.8	11	Filtered		LAS
RD-34C		Primary	08/10/95	Cesium-134	-0.3 U	1.4	7.8	Filtered		LAS
RD-34C		Primary	08/10/95	Cesium-137	-1.5 U	5.2	9.7	Filtered		LAS
RD-34C		Primary	08/10/95	Cobalt-57	0.2 U	2.5	4.3	Filtered		LAS
RD-34C		Primary	08/10/95	Cobalt-60	2.4 U	4.5	9.2	Filtered		LAS
RD-34C		Primary	02/19/96	Cesium-134	0.3 U	3.4	3.4	Filtered		LAS
RD-34C		Primary	02/19/96	Cesium-137	0.7 U	2.3	3.9	Filtered		LAS
RD-34C		Primary	02/19/96	Cobalt-57	0 U	---	3.3	Filtered		LAS
RD-34C		Primary	02/19/96	Cobalt-60	0.1 U	2	4.3	Filtered		LAS
RD-34C		Primary	08/19/96	Cesium-134	0.3 U	3.6	6.6	Filtered		LAS
RD-34C		Primary	08/19/96	Cesium-137	-1.1 U	4.7	8.9	Filtered		LAS
RD-34C		Primary	08/19/96	Cobalt-57	0.2 U	3.6	4.8	Filtered		LAS
RD-34C		Primary	08/19/96	Cobalt-60	-0.4 U	3.9	8.3	Filtered		LAS
RD-34C		Primary	02/07/97	Cesium-134	-1.1 U	1.2	4	Filtered		LAS
RD-34C		Primary	02/07/97	Cesium-137	0.1 U	3.2	4.5	Filtered		LAS
RD-34C		Primary	02/07/97	Cobalt-57	1.8 U	2.7	3.5	Filtered		LAS
RD-34C		Primary	02/07/97	Cobalt-60	-1.3 U	1.2	4.4	Filtered		LAS
RD-34C		Primary	08/21/97	Cesium-134	-1.8 U	3.2	7.4	Filtered		LAS
RD-34C		Primary	08/21/97	Cesium-137	-2.3 U	4.9	9.5	Filtered		LAS
RD-34C		Primary	08/21/97	Cobalt-57	0.1 U	2.5	4.4	Filtered		LAS
RD-34C		Primary	08/21/97	Cobalt-60	1.4 U	3.5	8.1	Filtered		LAS
RD-34C		Primary	05/27/98	Cesium-134	11.6 U	---	11.6	Filtered		TN
RD-34C		Primary	05/27/98	Cesium-137	8.9 U	---	8.9	Filtered		TN
RD-34C		Primary	05/27/98	Cobalt-57	5.59 U	---	5.59	Filtered		TN
RD-34C		Primary	05/27/98	Cobalt-60	11 U	---	11	Filtered		TN

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-34C		Primary	08/17/98	Cesium-134	14.2 U	---	14.2	Filtered		TN
RD-34C		Primary	08/17/98	Cesium-137	13.4 U	---	13.4	Filtered		TN
RD-34C		Primary	08/17/98	Cobalt-57	7.86 U	---	7.86	Filtered		TN
RD-34C		Primary	08/17/98	Cobalt-60	15.2 U	---	15.2	Filtered		TN
RD-34C		Primary	02/04/99	Cesium-134	12.3 U	---	12.3	Filtered		TN
RD-34C		Primary	02/04/99	Cesium-137	10.6 U	---	10.6	Filtered		TN
RD-34C		Primary	02/04/99	Cobalt-57	3.62 U	---	3.62	Filtered		TN
RD-34C		Primary	02/04/99	Cobalt-60	13.7 U	---	13.7	Filtered		TN
RD-34C		Primary	02/05/00	Cesium-134	12 U	---	12	Filtered		TR
RD-34C		Primary	02/05/00	Cesium-137	11 U	---	11	Filtered		TR
RD-34C		Primary	02/05/00	Cobalt-57	8.52 U	---	8.52	Filtered		TR
RD-34C		Primary	02/05/00	Cobalt-60	11.7 U	---	11.7	Filtered		TR
RD-34C		Primary	02/16/01	Cesium-134	13.4 U	---	13.4	Filtered		ES
RD-34C		Primary	02/16/01	Cesium-137	12.4 U	---	12.4	Filtered		ES
RD-34C		Primary	02/16/01	Cobalt-57	4.38 U	---	4.38	Filtered		ES
RD-34C		Primary	02/16/01	Cobalt-60	14.4 U	---	14.4	Filtered		ES
RD-34C		Primary	02/14/02	Cesium-134	3 U	3	3	Filtered		DL
RD-34C		Primary	02/14/02	Cesium-137	1 U	0.36	1	Filtered		DL
RD-34C		Primary	02/14/02	Cobalt-57	3 U	0.22	3	Filtered		DL
RD-34C		Primary	02/14/02	Cobalt-60	3 U	1.8	3	Filtered		DL
RD-34C		Primary	02/06/03	Cesium-134	3.73 U	---	3.73	Filtered		ES
RD-34C		Primary	02/06/03	Cesium-137	2.13 U	---	2.13	Filtered		ES
RD-34C		Primary	02/06/03	Cobalt-57	1.11 U	---	1.11	Filtered		ES
RD-34C		Primary	02/06/03	Cobalt-60	2.1 U	---	2.1	Filtered		ES
RD-34C		Primary	02/24/04	Cesium-134	5.71 U	---	5.71	Filtered		ES
RD-34C		Primary	02/24/04	Cesium-137	4.17 U	---	4.17	Filtered		ES
RD-34C		Primary	02/24/04	Cobalt-57	2.71 U	---	2.71	Filtered		ES
RD-34C		Primary	02/24/04	Cobalt-60	4.86 U	---	4.86	Filtered		ES
RD-34C		Split	08/09/04	Cesium-134	-0.074 U	0.896	1.52	Filtered		STL
RD-34C		Split	08/09/04	Cesium-137	0.584 U	0.799	1.39	Filtered		STL
RD-34C		Split	08/09/04	Cobalt-57	-3.75 U	3.34	5.41	Filtered		STL
RD-34C		Split	08/09/04	Cobalt-60	-0.0641 U	0.807	1.4	Filtered		STL
RD-34C		Primary	02/15/05	Cesium-134	1.48 U	---	1.48	Filtered		ES
RD-34C		Primary	02/15/05	Cesium-137	1.23 U	---	1.23	Filtered		ES
RD-34C		Primary	02/15/05	Cobalt-57	0.849 U	---	0.849	Filtered		ES
RD-34C		Primary	02/15/05	Cobalt-60	1.23 U	---	1.23	Filtered		ES
RD-34C		Primary	02/15/05	Europium-152	2.97 U	---	2.97	Filtered		ES
RD-34C		Primary	02/15/05	Europium-154	3.76 U	---	3.76	Filtered		ES
RD-34C		Primary	02/15/05	Manganese-54	1.23 U	---	1.23	Filtered		ES
RD-34C		Primary	02/15/05	Sodium-22	1.29 U	---	1.29	Filtered		ES
RD-34C		Primary	02/21/06	Cesium-134	3.42 U	---	3.42	Filtered		ES
RD-34C		Primary	02/21/06	Cesium-137	1.5 U	---	1.5	Filtered		ES
RD-34C		Primary	02/21/06	Cobalt-57	1.41 U	---	1.41	Filtered		ES
RD-34C		Primary	02/21/06	Cobalt-60	1.58 U	---	1.58	Filtered		ES
RD-34C		Primary	02/21/06	Europium-152	4.25 U	---	4.25	Filtered		ES
RD-34C		Primary	02/21/06	Europium-154	4.62 U	---	4.62	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-34C		Primary	02/21/06	Manganese-54	1.59 U	---	1.59	Filtered		ES
RD-34C		Primary	02/21/06	Sodium-22	1.59 U	---	1.59	Filtered		ES
RD-34C		Split	02/21/06	Cesium-134	-0.14 U	1	1.42	Filtered		STL
RD-34C		Split	02/21/06	Cesium-137	-0.62 U	2	2.63	Filtered		STL
RD-34C		Split	02/21/06	Cobalt-57	0.0327 U	4	6.87	Filtered		STL
RD-34C		Split	02/21/06	Cobalt-60	-0.323 U	1	1.81	Filtered		STL
RD-34C		Split	02/21/06	Europium-152	0.035 U	2	3.85	Filtered		STL
RD-34C		Split	02/21/06	Europium-154	-0.0593 U	2	4.27	Filtered		STL
RD-34C		Split	02/21/06	Manganese-54	0.46 U	1	1.56	Filtered		STL
RD-34C		Split	02/21/06	Sodium-22	-0.141 U	1	1.54	Filtered		STL
RD-34C		Primary	02/07/07	Cesium-134	1 U	---	1	Filtered		ES
RD-34C		Primary	02/07/07	Cesium-137	0.946 U	---	0.946	Filtered		ES
RD-34C		Primary	02/07/07	Cobalt-57	0.621 U	---	0.621	Filtered		ES
RD-34C		Primary	02/07/07	Cobalt-60	1.03 U	---	1.03	Filtered		ES
RD-34C		Primary	02/07/07	Europium-152	2.21 U	---	2.21	Filtered		ES
RD-34C		Primary	02/07/07	Europium-154	2.79 U	---	2.79	Filtered		ES
RD-34C		Primary	02/07/07	Manganese-54	0.866 U	---	0.866	Filtered		ES
RD-34C		Primary	02/07/07	Sodium-22	0.983 U	---	0.983	Filtered		ES
RD-34C		Primary	02/12/08	Cesium-134	0.992 U	---	0.992	Filtered		ES
RD-34C		Primary	02/12/08	Cesium-137	0.774 U	---	0.774	Filtered		ES
RD-34C		Primary	02/12/08	Cobalt-57	0.412 U	---	0.412	Filtered		ES
RD-34C		Primary	02/12/08	Cobalt-60	0.66 U	---	0.66	Filtered		ES
RD-34C		Primary	02/12/08	Europium-152	1.99 U	---	1.99	Filtered		ES
RD-34C		Primary	02/12/08	Europium-154	2.08 U	---	2.08	Filtered		ES
RD-34C		Primary	02/12/08	Manganese-54	0.766 U	---	0.766	Filtered		ES
RD-34C		Primary	02/12/08	Sodium-22	0.708 U	---	0.708	Filtered		ES
RD-35B		Primary	05/07/99	Cesium-134	19.3 U	---	19.3	Filtered		TN
RD-35B		Primary	05/07/99	Cesium-137	15 U	---	15	Filtered		TN
RD-35B		Primary	05/07/99	Cobalt-57	6.25 U	---	6.25	Filtered		TN
RD-35B		Primary	05/07/99	Cobalt-60	16.4 U	---	16.4	Filtered		TN
RD-36D		Primary	11/13/97	Cesium-134	-1.9 U	2.4	6.8	Filtered		LAS
RD-36D		Primary	11/13/97	Cesium-137	-1.9 U	5.1	8.9	Filtered		LAS
RD-36D		Primary	11/13/97	Cobalt-57	-0.1 U	3.3	4.4	Filtered		LAS
RD-36D		Primary	11/13/97	Cobalt-60	-1.3 U	2.9	8.2	Filtered		LAS
RD-38B		Primary	02/17/99	Cesium-134	18.2 U	---	18.2	Filtered		TN
RD-38B		Primary	02/17/99	Cesium-137	15.8 U	---	15.8	Filtered		TN
RD-38B		Primary	02/17/99	Cobalt-57	5.93 U	---	5.93	Filtered		TN
RD-38B		Primary	02/17/99	Cobalt-60	19 U	---	19	Filtered		TN
RD-44		Primary	08/24/97	Cesium-134	-0.7 U	4.2	7.1	Filtered		LAS
RD-44		Primary	08/24/97	Cesium-137	0.4 U	5.7	9.9	Filtered		LAS
RD-44		Primary	08/24/97	Cobalt-57	0.9 U	2.8	4.7	Filtered		LAS
RD-44		Primary	08/24/97	Cobalt-60	1.9 U	3.9	8.8	Filtered		LAS
RD-46B		Primary	02/15/99	Cesium-134	18.5 U	---	18.5	Filtered		TN
RD-46B		Primary	02/15/99	Cesium-137	15.1 U	---	15.1	Filtered		TN

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-46B		Primary	02/15/99	Cobalt-57	6.18 U	---	6.18	Filtered		TN
RD-46B		Primary	02/15/99	Cobalt-60	20.3 U	---	20.3	Filtered		TN
RD-47		Primary	08/24/97	Cesium-134	0.1 U	3.4	7.2	Filtered		LAS
RD-47		Primary	08/24/97	Cesium-137	0.8 U	5	9	Filtered		LAS
RD-47		Primary	08/24/97	Cobalt-57	-0.9 U	2.8	4.9	Filtered		LAS
RD-47		Primary	08/24/97	Cobalt-60	2 U	4.3	8.8	Filtered		LAS
RD-50		Primary	05/05/94	Cesium-137	1.2 U	5.6	7.5	Filtered		LAS
RD-50		Primary	05/05/94	Cobalt-57	-0.2 U	2.2	3.8	Filtered		LAS
RD-50		Primary	05/05/94	Cobalt-60	0 U	---	8.2	Filtered		LAS
RD-50		Primary	05/19/95	Cesium-134	-1.6 U	1.7	3.9	Filtered		LAS
RD-50		Primary	05/19/95	Cesium-137	-2.6 U	1.5	4.5	Filtered		LAS
RD-50		Primary	05/19/95	Cobalt-57	0.4 U	2.6	3.4	Filtered		LAS
RD-50		Primary	05/19/95	Cobalt-60	-1.1 U	1.3	3.7	Filtered		LAS
RD-50		Primary	05/14/96	Cesium-134	0.7 U	5.1	7.3	Filtered		LAS
RD-50		Primary	05/14/96	Cesium-137	-1.9 U	8	11	Filtered		LAS
RD-50		Primary	05/14/96	Cobalt-57	2.7 U	3.6	4.2	Filtered		LAS
RD-50		Primary	05/14/96	Cobalt-60	-0.1 U	5	9	Filtered		LAS
RD-50		Primary	05/05/97	Cobalt-57	2.1 U	3.7	4.4	Filtered		LAS
RD-50		Primary	05/05/97	Cobalt-60	3.5 U	5.5	9.6	Filtered		LAS
RD-50		Primary	05/28/98	Cesium-134	15.6 U	---	15.6	Filtered		TN
RD-50		Primary	05/28/98	Cesium-137	15.6 U	---	15.6	Filtered		TN
RD-50		Primary	05/28/98	Cobalt-57	8.87 U	---	8.87	Filtered		TN
RD-50		Primary	05/28/98	Cobalt-60	15.7 U	---	15.7	Filtered		TN
RD-51C		Primary	12/14/91	Cesium-137	-0.798 U	3.77	10	Filtered		IT
RD-51C		Primary	03/06/92	Cesium-137	0 U	---	---	Filtered		CEP
RD-54A		Primary	09/12/93	Cesium-137	0 U	---	---	Filtered		CEP
RD-54A		Primary	09/29/93	Cesium-137	0 U	---	---	Filtered		CEP
RD-54A		Primary	05/08/94	Cesium-137	-1.5 U	5.2	7.5	Filtered		LAS
RD-54A		Primary	05/08/94	Cobalt-57	-0.5 U	2.1	3.6	Filtered		LAS
RD-54A		Primary	05/08/94	Cobalt-60	-0.8 U	3.5	8.3	Filtered		LAS
RD-54A		Primary	08/09/94	Cesium-134	-2.4 U	---	4.8	Filtered		LAS
RD-54A		Primary	08/09/94	Cesium-137	0.9 U	---	5	Filtered		LAS
RD-54A		Primary	08/09/94	Cobalt-57	0.4 U	---	4.2	Filtered		LAS
RD-54A		Primary	08/09/94	Cobalt-60	0.6 U	---	3.9	Filtered		LAS
RD-54A		Primary	08/03/95	Cesium-134	-0.4 U	5.2	9	Filtered		LAS
RD-54A		Primary	08/03/95	Cesium-137	-4.1 U	5.8	12	Filtered		LAS
RD-54A		Primary	08/03/95	Cobalt-57	2.9 U	3.6	5.9	Filtered		LAS
RD-54A		Primary	08/03/95	Cobalt-60	-1.1 U	4	14	Filtered		LAS
RD-54A		Primary	05/16/96	Cesium-134	-0.4 U	1.7	3.5	Filtered		LAS
RD-54A		Primary	05/16/96	Cesium-137	1.3 U	3	3.8	Filtered		LAS
RD-54A		Primary	05/16/96	Cobalt-57	-0.1 U	2.5	3.4	Filtered		LAS
RD-54A		Primary	05/16/96	Cobalt-60	0.8 U	1.5	3.2	Filtered		LAS
RD-54A		Primary	08/23/96	Cesium-134	-3.2 U	3	6.8	Filtered		LAS
RD-54A		Primary	08/23/96	Cesium-137	2.2 U	5.1	8.6	Filtered		LAS
RD-54A		Primary	08/23/96	Cobalt-57	1.3 U	3.5	4.6	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-54A		Primary	08/23/96	Cobalt-60	0 U	---	8.3	Filtered		LAS
RD-54A		Primary	08/22/97	Cesium-134	-1.6 U	2.5	8.2	Filtered		LAS
RD-54A		Primary	08/22/97	Cesium-137	-3.4 U	4.7	9.1	Filtered		LAS
RD-54A		Primary	08/22/97	Cobalt-57	0.7 U	2.7	4.5	Filtered		LAS
RD-54A		Primary	08/22/97	Cobalt-60	-1.8 U	2.5	10	Filtered		LAS
RD-54A		Primary	02/08/98	Cesium-134	17.3 U	---	17.3	Filtered		TN
RD-54A		Primary	02/08/98	Cesium-137	15.2 U	---	15.2	Filtered		TN
RD-54A		Primary	02/08/98	Cobalt-57	6.02 U	---	6.02	Filtered		TN
RD-54A		Primary	02/08/98	Cobalt-60	19.9 U	---	19.9	Filtered		TN
RD-54A		Primary	08/07/98	Cesium-134	26.4 U	---	26.4	Filtered		TN
RD-54A		Primary	08/07/98	Cesium-137	24.9 U	---	24.9	Filtered		TN
RD-54A		Primary	08/07/98	Cobalt-57	14.9 U	---	14.9	Filtered		TN
RD-54A		Primary	08/07/98	Cobalt-60	25.4 U	---	25.4	Filtered		TN
RD-54A		Primary	02/08/99	Cesium-134	8.46 U	---	8.46	Filtered		TN
RD-54A		Primary	02/08/99	Cesium-137	6.22 U	---	6.22	Filtered		TN
RD-54A		Primary	02/08/99	Cobalt-57	3.85 U	---	3.85	Filtered		TN
RD-54A		Primary	02/08/99	Cobalt-60	6.75 U	---	6.75	Filtered		TN
RD-54A		Primary	03/15/00	Cesium-134	10.6 U	---	10.6	Filtered		TR
RD-54A		Primary	03/15/00	Cesium-137	18.9 U	---	18.9	Filtered		TR
RD-54A		Primary	03/15/00	Cobalt-57	4.69 U	---	4.69	Filtered		TR
RD-54A		Primary	03/15/00	Cobalt-60	9.43 U	---	9.43	Filtered		TR
RD-54A		Primary	10/26/01	Cesium-134	5 U	---	5	Filtered		DL
RD-54A		Primary	10/26/01	Cesium-137	10 U	---	10	Filtered		DL
RD-54A		Primary	10/26/01	Cobalt-57	2.7 U	3	10	Filtered		DL
RD-54A		Primary	10/26/01	Cobalt-60	6 U	---	6	Filtered		DL
RD-54A		Primary	02/27/02	Cesium-134	3 U	1	3	Filtered		DL
RD-54A		Primary	02/27/02	Cesium-137	1 U	1	1	Filtered		DL
RD-54A		Primary	02/27/02	Cobalt-57	3 U	1	3	Filtered		DL
RD-54A		Primary	02/27/02	Cobalt-60	3 U	1	3	Filtered		DL
RD-54A	Z2	Primary	02/18/03	Cesium-134	2.52 U	---	2.52	Filtered		ES
RD-54A	Z2	Primary	02/18/03	Cesium-137	2.07 U	---	2.07	Filtered		ES
RD-54A	Z2	Primary	02/18/03	Cobalt-57	1.34 U	---	1.34	Filtered		ES
RD-54A	Z2	Primary	02/18/03	Cobalt-60	2.51 U	---	2.51	Filtered		ES
RD-54A	Z2	Primary	11/03/04	Cesium-134	3.08 U	---	3.08	Filtered		ES
RD-54A	Z2	Primary	11/03/04	Cesium-137	2.46 U	---	2.46	Filtered		ES
RD-54A	Z2	Primary	11/03/04	Cobalt-57	1.83 U	---	1.83	Filtered		ES
RD-54A	Z2	Primary	11/03/04	Cobalt-60	2.6 U	---	2.6	Filtered		ES
RD-54A	Z2	Primary	11/03/04	Europium-152	6.75 U	---	6.75	Filtered		ES
RD-54A	Z2	Primary	11/03/04	Europium-154	7.51 U	---	7.51	Filtered		ES
RD-54A	Z2	Primary	11/03/04	Manganese-54	2.4 U	---	2.4	Filtered		ES
RD-54A	Z2	Primary	11/03/04	Sodium-22	2.6 U	---	2.6	Filtered		ES
RD-54A	Z2	Primary	02/16/05	Cesium-134	1.4 U	---	1.4	Filtered		ES
RD-54A	Z2	Primary	02/16/05	Cesium-137	1.18 U	---	1.18	Filtered		ES
RD-54A	Z2	Primary	02/16/05	Cobalt-57	0.918 U	---	0.918	Filtered		ES
RD-54A	Z2	Primary	02/16/05	Cobalt-60	1.33 U	---	1.33	Filtered		ES
RD-54A	Z2	Primary	02/16/05	Europium-152	3.06 U	---	3.06	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-54A	Z2	Primary	02/16/05	Europium-154	4.02 U	---	4.02	Filtered		ES
RD-54A	Z2	Primary	02/16/05	Manganese-54	1.22 U	---	1.22	Filtered		ES
RD-54A	Z2	Primary	02/16/05	Sodium-22	1.37 U	---	1.37	Filtered		ES
RD-54A	Z2	Primary	02/16/06	Cesium-134	1.08 U	---	1.08	Filtered		ES
RD-54A	Z2	Primary	02/16/06	Cesium-137	0.951 U	---	0.951	Filtered		ES
RD-54A	Z2	Primary	02/16/06	Cobalt-57	0.678 U	---	0.678	Filtered		ES
RD-54A	Z2	Primary	02/16/06	Cobalt-60	0.919 U	---	0.919	Filtered		ES
RD-54A	Z2	Primary	02/16/06	Europium-152	2.26 U	---	2.26	Filtered		ES
RD-54A	Z2	Primary	02/16/06	Europium-154	2.79 U	---	2.79	Filtered		ES
RD-54A	Z2	Primary	02/16/06	Manganese-54	0.969 U	---	0.969	Filtered		ES
RD-54A	Z2	Primary	02/16/06	Sodium-22	0.963 U	---	0.963	Filtered		ES
RD-54A	Z2	Primary	02/07/07	Cesium-134	2.08 U	---	2.08	Filtered		ES
RD-54A	Z2	Primary	02/07/07	Cesium-137	1 U	---	1	Filtered		ES
RD-54A	Z2	Primary	02/07/07	Cobalt-57	0.644 U	---	0.644	Filtered		ES
RD-54A	Z2	Primary	02/07/07	Cobalt-60	1.06 U	---	1.06	Filtered		ES
RD-54A	Z2	Primary	02/07/07	Europium-152	2.88 U	---	2.88	Filtered		ES
RD-54A	Z2	Primary	02/07/07	Europium-154	3.05 U	---	3.05	Filtered		ES
RD-54A	Z2	Primary	02/07/07	Manganese-54	0.959 U	---	0.959	Filtered		ES
RD-54A	Z2	Primary	02/07/07	Sodium-22	1.04 U	---	1.04	Filtered		ES
RD-54A	Z2	Primary	02/06/08	Cesium-134	2.02 U	---	2.02	Filtered		ES
RD-54A	Z2	Primary	02/06/08	Cesium-137	1.51 U	---	1.51	Filtered		ES
RD-54A	Z2	Primary	02/06/08	Cobalt-57	1.04 U	---	1.04	Filtered		ES
RD-54A	Z2	Primary	02/06/08	Cobalt-60	1.57 U	---	1.57	Filtered		ES
RD-54A	Z2	Primary	02/06/08	Europium-152	4.46 U	---	4.46	Filtered		ES
RD-54A	Z2	Primary	02/06/08	Europium-154	5.03 U	---	5.03	Filtered		ES
RD-54A	Z2	Primary	02/06/08	Manganese-54	1.52 U	---	1.52	Filtered		ES
RD-54A	Z2	Primary	02/06/08	Sodium-22	1.72 U	---	1.72	Filtered		ES
RD-54B		Primary	09/12/93	Cesium-137	0 U	---	---	Filtered		CEP
RD-54B		Primary	09/29/93	Cesium-137	0 U	---	---	Filtered		CEP
RD-54B		Primary	05/08/94	Cesium-137	2.7 U	5.3	6.9	Filtered		LAS
RD-54B		Primary	05/08/94	Cobalt-57	0.9 U	2.3	3.7	Filtered		LAS
RD-54B		Primary	05/08/94	Cobalt-60	0.8 U	3.5	7.7	Filtered		LAS
RD-54B		Primary	08/08/94	Cesium-134	-0.43 U	---	1.8	Filtered		LAS
RD-54B		Primary	08/08/94	Cesium-137	-1.5 U	---	2.7	Filtered		LAS
RD-54B		Primary	08/08/94	Cobalt-57	0.6 U	---	4.1	Filtered		LAS
RD-54B		Primary	08/08/94	Cobalt-60	-1.74 U	---	3.4	Filtered		LAS
RD-54B		Primary	08/30/95	Cesium-134	-2.2 U	3	7.4	Filtered		LAS
RD-54B		Primary	08/30/95	Cesium-137	1.5 U	5.4	8.9	Filtered		LAS
RD-54B		Primary	08/30/95	Cobalt-57	1.1 U	2.6	4.3	Filtered		LAS
RD-54B		Primary	08/30/95	Cobalt-60	-0.8 U	1.6	9.6	Filtered		LAS
RD-54B		Primary	05/14/96	Cesium-134	-3.1 U	1.9	7.7	Filtered		LAS
RD-54B		Primary	05/14/96	Cesium-137	-0.3 U	3.7	9.9	Filtered		LAS
RD-54B		Primary	05/14/96	Cobalt-57	1.2 U	3.3	4.2	Filtered		LAS
RD-54B		Primary	05/14/96	Cobalt-60	1.8 U	4.3	9	Filtered		LAS
RD-54B		Primary	08/23/96	Cesium-134	1.3 U	3.2	6.5	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-54B		Primary	08/23/96	Cesium-137	1.2 U	6.8	9.5	Filtered		LAS
RD-54B		Primary	08/23/96	Cobalt-57	-1.3 U	2.1	5.2	Filtered		LAS
RD-54B		Primary	08/23/96	Cobalt-60	0.5 U	4	8.9	Filtered		LAS
RD-54B		Primary	08/22/97	Cesium-134	0.4 U	1.5	3.1	Filtered		LAS
RD-54B		Primary	08/22/97	Cesium-137	0.2 U	2	3.6	Filtered		LAS
RD-54B		Primary	08/22/97	Cobalt-57	-0.2 U	1.3	3.3	Filtered		LAS
RD-54B		Primary	08/22/97	Cobalt-60	-2.4 U	1.2	5	Filtered		LAS
RD-54B		Primary	02/08/98	Cesium-134	7.42 U	---	7.42	Filtered		TN
RD-54B		Primary	02/08/98	Cesium-137	5.16 U	---	5.16	Filtered		TN
RD-54B		Primary	02/08/98	Cobalt-57	3.14 U	---	3.14	Filtered		TN
RD-54B		Primary	02/08/98	Cobalt-60	5.4 U	---	5.4	Filtered		TN
RD-54B		Primary	08/07/98	Cesium-134	15.4 U	---	15.4	Filtered		TN
RD-54B		Primary	08/07/98	Cesium-137	9.43 U	---	9.43	Filtered		TN
RD-54B		Primary	08/07/98	Cobalt-57	6.07 U	---	6.07	Filtered		TN
RD-54B		Primary	08/07/98	Cobalt-60	7.5 U	---	7.5	Filtered		TN
RD-54B		Primary	02/08/99	Cesium-134	18.3 U	---	18.3	Filtered		TN
RD-54B		Primary	02/08/99	Cesium-137	15.2 U	---	15.2	Filtered		TN
RD-54B		Primary	02/08/99	Cobalt-57	9.48 U	---	9.48	Filtered		TN
RD-54B		Primary	02/08/99	Cobalt-60	13.1 U	---	13.1	Filtered		TN
RD-54B		Primary	03/15/00	Cesium-134	8.14 U	---	8.14	Filtered		TR
RD-54B		Primary	03/15/00	Cesium-137	6.64 U	---	6.64	Filtered		TR
RD-54B		Primary	03/15/00	Cobalt-57	5.96 U	---	5.96	Filtered		TR
RD-54B		Primary	03/15/00	Cobalt-60	8.56 U	---	8.56	Filtered		TR
RD-54B		Primary	10/25/01	Cesium-134	0.3 U	6	14	Filtered		DL
RD-54B		Primary	10/25/01	Cesium-137	13 U	---	13	Filtered		DL
RD-54B		Primary	10/25/01	Cobalt-57	14 U	---	14	Filtered		DL
RD-54B		Primary	10/25/01	Cobalt-60	4.6 U	2	6	Filtered		DL
RD-54B		Primary	02/27/02	Cesium-134	5 U	3	5	Filtered		DL
RD-54B		Primary	02/27/02	Cesium-137	5 U	3	5	Filtered		DL
RD-54B		Primary	02/27/02	Cobalt-57	3 U	1	3	Filtered		DL
RD-54B		Primary	02/27/02	Cobalt-60	3 U	1	3	Filtered		DL
RD-54B		Primary	02/26/03	Cesium-134	4.17 U	---	4.17	Filtered		ES
RD-54B		Primary	02/26/03	Cesium-137	1.8 U	---	1.8	Filtered		ES
RD-54B		Primary	02/26/03	Cobalt-57	1.41 U	---	1.41	Filtered		ES
RD-54B		Primary	02/26/03	Cobalt-60	2.28 U	---	2.28	Filtered		ES
RD-54B		Primary	02/16/05	Cesium-134	1.71 U	---	1.71	Filtered		ES
RD-54B		Primary	02/16/05	Cesium-137	1.31 U	---	1.31	Filtered		ES
RD-54B		Primary	02/16/05	Cobalt-57	0.575 U	---	0.575	Filtered		ES
RD-54B		Primary	02/16/05	Cobalt-60	1.5 U	---	1.5	Filtered		ES
RD-54B		Primary	02/16/05	Europium-152	3.43 U	---	3.43	Filtered		ES
RD-54B		Primary	02/16/05	Europium-154	4.39 U	---	4.39	Filtered		ES
RD-54B		Primary	02/16/05	Manganese-54	1.38 U	---	1.38	Filtered		ES
RD-54B		Primary	02/16/05	Sodium-22	1.51 U	---	1.51	Filtered		ES
RD-54B		Primary	02/20/06	Cesium-134	1.56 U	---	1.56	Filtered		ES
RD-54B		Primary	02/20/06	Cesium-137	1.23 U	---	1.23	Filtered		ES
RD-54B		Primary	02/20/06	Cobalt-57	0.871 U	---	0.871	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-54B		Primary	02/20/06	Cobalt-60	1.13 U	---	1.13	Filtered		ES
RD-54B		Primary	02/20/06	Europium-152	3.22 U	---	3.22	Filtered		ES
RD-54B		Primary	02/20/06	Europium-154	2.8 U	---	2.8	Filtered		ES
RD-54B		Primary	02/20/06	Manganese-54	1.09 U	---	1.09	Filtered		ES
RD-54B		Primary	02/20/06	Sodium-22	0.955 U	---	0.955	Filtered		ES
RD-54B		Primary	02/12/07	Cesium-134	1.42 U	---	1.42	Filtered		ES
RD-54B		Primary	02/12/07	Cesium-137	1.25 U	---	1.25	Filtered		ES
RD-54B		Primary	02/12/07	Cobalt-57	0.981 U	---	0.981	Filtered		ES
RD-54B		Primary	02/12/07	Cobalt-60	1.18 U	---	1.18	Filtered		ES
RD-54B		Primary	02/12/07	Europium-152	3.53 U	---	3.53	Filtered		ES
RD-54B		Primary	02/12/07	Europium-154	3.42 U	---	3.42	Filtered		ES
RD-54B		Primary	02/12/07	Manganese-54	1.16 U	---	1.16	Filtered		ES
RD-54B		Primary	02/12/07	Sodium-22	1.16 U	---	1.16	Filtered		ES
RD-54B		Primary	02/14/08	Cesium-134	1.41 U	---	1.41	Filtered		ES
RD-54B		Primary	02/14/08	Cesium-137	1.22 U	---	1.22	Filtered		ES
RD-54B		Primary	02/14/08	Cobalt-57	0.935 U	---	0.935	Filtered		ES
RD-54B		Primary	02/14/08	Cobalt-60	1.12 U	---	1.12	Filtered		ES
RD-54B		Primary	02/14/08	Europium-152	3.3 U	---	3.3	Filtered		ES
RD-54B		Primary	02/14/08	Europium-154	3.28 U	---	3.28	Filtered		ES
RD-54B		Primary	02/14/08	Manganese-54	1.1 U	---	1.1	Filtered		ES
RD-54B		Primary	02/14/08	Sodium-22	1.11 U	---	1.11	Filtered		ES
RD-54B		Primary	11/07/08	Antimony-125	1.72 U	---	1.72	Filtered		ES
RD-54B		Primary	11/07/08	Antimony-125	1.56 U	---	1.56	Unfiltered		ES
RD-54B		Primary	11/07/08	Barium-133	0.726 U	---	0.726	Filtered		ES
RD-54B		Primary	11/07/08	Barium-133	0.701 U	---	0.701	Unfiltered		ES
RD-54B		Primary	11/07/08	Cesium-134	0.947 U	---	0.947	Filtered		ES
RD-54B		Primary	11/07/08	Cesium-134	1.22 U	---	1.22	Unfiltered		ES
RD-54B		Primary	11/07/08	Cesium-137	0.772 U	---	0.772	Filtered		ES
RD-54B		Primary	11/07/08	Cesium-137	0.585 U	---	0.585	Unfiltered		ES
RD-54B		Primary	11/07/08	Cobalt-60	0.766 U	---	0.766	Filtered		ES
RD-54B		Primary	11/07/08	Cobalt-60	0.617 U	---	0.617	Unfiltered		ES
RD-54B		Primary	11/07/08	Europium-152	1.76 U	---	1.76	Filtered		ES
RD-54B		Primary	11/07/08	Europium-152	1.91 U	---	1.91	Unfiltered		ES
RD-54B		Primary	11/07/08	Europium-154	2.29 U	---	2.29	Filtered		ES
RD-54B		Primary	11/07/08	Europium-154	1.62 U	---	1.62	Unfiltered		ES
RD-54B		Primary	11/07/08	Europium-155	1.65 U	---	1.65	Filtered		ES
RD-54B		Primary	11/07/08	Europium-155	2.17 U	---	2.17	Unfiltered		ES
RD-54B		Primary	11/07/08	Manganese-54	0.727 U	---	0.727	Filtered		ES
RD-54B		Primary	11/07/08	Manganese-54	0.611 U	---	0.611	Unfiltered		ES
RD-54B		Primary	11/07/08	Sodium-22	0.778 U	---	0.778	Filtered		ES
RD-54B		Primary	11/07/08	Sodium-22	0.548 U	---	0.548	Unfiltered		ES
RD-54C		Primary	09/11/93	Cesium-137	0 U	---	---	Filtered		CEP
RD-54C		Primary	09/29/93	Cesium-137	0 U	---	---	Filtered		CEP
RD-54C		Primary	05/08/94	Cesium-137	2.7 U	5.7	6.5	Filtered		LAS
RD-54C		Primary	05/08/94	Cobalt-57	0 U	---	3.4	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-54C		Primary	05/08/94	Cobalt-60	-2.5 U	3.6	6.9	Filtered		LAS
RD-54C		Primary	08/08/94	Cesium-134	5 U	---	25	Filtered		LAS
RD-54C		Primary	08/08/94	Cesium-137	5 U	---	27	Filtered		LAS
RD-54C		Primary	08/08/94	Cobalt-57	-7.1 U	---	19	Filtered		LAS
RD-54C		Primary	08/08/94	Cobalt-60	-8 U	---	31	Filtered		LAS
RD-54C		Primary	08/30/95	Cesium-134	-3.3 U	2.2	7.8	Filtered		LAS
RD-54C		Primary	08/30/95	Cesium-137	5.6 U	5.5	8	Filtered		LAS
RD-54C		Primary	08/30/95	Cobalt-57	-1.1 U	1.8	4.7	Filtered		LAS
RD-54C		Primary	08/30/95	Cobalt-60	-3.3 U	2.3	11	Filtered		LAS
RD-54C		Primary	05/16/96	Cesium-134	0.3 U	5.1	7.5	Filtered		LAS
RD-54C		Primary	05/16/96	Cesium-137	-1.3 U	7.2	9.7	Filtered		LAS
RD-54C		Primary	05/16/96	Cobalt-57	-0.2 U	1.5	4.5	Filtered		LAS
RD-54C		Primary	05/16/96	Cobalt-60	-4.3 U	2.2	10	Filtered		LAS
RD-54C		Primary	08/23/96	Cesium-134	-2.4 U	2.9	7.7	Filtered		LAS
RD-54C		Primary	08/23/96	Cesium-137	2.3 U	5	8.4	Filtered		LAS
RD-54C		Primary	08/23/96	Cobalt-57	0.9 U	3.3	4.3	Filtered		LAS
RD-54C		Primary	08/23/96	Cobalt-60	2 U	4	8.3	Filtered		LAS
RD-54C		Primary	08/24/97	Cesium-134	1.2 U	2.9	6.2	Filtered		LAS
RD-54C		Primary	08/24/97	Cesium-137	1 U	4.5	7.6	Filtered		LAS
RD-54C		Primary	08/24/97	Cobalt-57	0.2 U	3.4	4.6	Filtered		LAS
RD-54C		Primary	08/24/97	Cobalt-60	-1.4 U	2.3	8.5	Filtered		LAS
RD-54C		Primary	02/08/98	Cesium-134	15.1 U	---	15.1	Filtered		TN
RD-54C		Primary	02/08/98	Cesium-137	11 U	---	11	Filtered		TN
RD-54C		Primary	02/08/98	Cobalt-57	7.21 U	---	7.21	Filtered		TN
RD-54C		Primary	02/08/98	Cobalt-60	12.4 U	---	12.4	Filtered		TN
RD-54C		Primary	08/07/98	Cesium-134	22.6 U	---	22.6	Filtered		TN
RD-54C		Primary	08/07/98	Cesium-137	25.8 U	---	25.8	Filtered		TN
RD-54C		Primary	08/07/98	Cobalt-57	13.6 U	---	13.6	Filtered		TN
RD-54C		Primary	08/07/98	Cobalt-60	24.4 U	---	24.4	Filtered		TN
RD-54C		Primary	02/09/99	Cesium-134	20.4 U	---	20.4	Filtered		TN
RD-54C		Primary	02/09/99	Cesium-137	15.7 U	---	15.7	Filtered		TN
RD-54C		Primary	02/09/99	Cobalt-57	6.02 U	---	6.02	Filtered		TN
RD-54C		Primary	02/09/99	Cobalt-60	21.9 U	---	21.9	Filtered		TN
RD-54C		Primary	03/15/00	Cesium-134	5.14 U	---	5.14	Filtered		TR
RD-54C		Primary	03/15/00	Cesium-137	3.84 U	---	3.84	Filtered		TR
RD-54C		Primary	03/15/00	Cobalt-57	2.45 U	---	2.45	Filtered		TR
RD-54C		Primary	03/15/00	Cobalt-60	4.65 U	---	4.65	Filtered		TR
RD-54C		Primary	11/02/01	Cesium-134	5 U	---	5	Filtered		DL
RD-54C		Primary	11/02/01	Cesium-137	10 U	---	10	Filtered		DL
RD-54C		Primary	11/02/01	Cobalt-57	1.2 U	2.3	5	Filtered		DL
RD-54C		Primary	11/02/01	Cobalt-60	5 U	---	5	Filtered		DL
RD-54C		Primary	02/27/02	Cesium-134	5 U	3	5	Filtered		DL
RD-54C		Primary	02/27/02	Cesium-137	5 U	3	5	Filtered		DL
RD-54C		Primary	02/27/02	Cobalt-57	5 U	5	5	Filtered		DL
RD-54C		Primary	02/27/02	Cobalt-60	5 U	5	5	Filtered		DL
RD-54C		Primary	02/26/03	Cesium-134	1.88 U	---	1.88	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-54C		Primary	02/26/03	Cesium-137	1.57 U	---	1.57	Filtered		ES
RD-54C		Primary	02/26/03	Cobalt-57	0.946 U	---	0.946	Filtered		ES
RD-54C		Primary	02/26/03	Cobalt-60	1.63 U	---	1.63	Filtered		ES
RD-54C		Primary	11/05/04	Cesium-134	2.87 U	---	2.87	Filtered		ES
RD-54C		Primary	11/05/04	Cesium-137	2.35 U	---	2.35	Filtered		ES
RD-54C		Primary	11/05/04	Cobalt-57	1.41 U	---	1.41	Filtered		ES
RD-54C		Primary	11/05/04	Cobalt-60	2.26 U	---	2.26	Filtered		ES
RD-54C		Primary	11/05/04	Europium-152	5.47 U	---	5.47	Filtered		ES
RD-54C		Primary	11/05/04	Europium-154	6.22 U	---	6.22	Filtered		ES
RD-54C		Primary	11/05/04	Manganese-54	2.32 U	---	2.32	Filtered		ES
RD-54C		Primary	11/05/04	Sodium-22	2.16 U	---	2.16	Filtered		ES
RD-54C		Primary	02/17/05	Cesium-134	1.75 U	---	1.75	Filtered		ES
RD-54C		Primary	02/17/05	Cesium-137	1.45 U	---	1.45	Filtered		ES
RD-54C		Primary	02/17/05	Cobalt-57	0.928 U	---	0.928	Filtered		ES
RD-54C		Primary	02/17/05	Cobalt-60	1.67 U	---	1.67	Filtered		ES
RD-54C		Primary	02/17/05	Europium-152	3.43 U	---	3.43	Filtered		ES
RD-54C		Primary	02/17/05	Europium-154	4.61 U	---	4.61	Filtered		ES
RD-54C		Primary	02/17/05	Manganese-54	1.43 U	---	1.43	Filtered		ES
RD-54C		Primary	02/17/05	Sodium-22	1.58 U	---	1.58	Filtered		ES
RD-54C		Split	02/17/05	Cesium-134	-0.202 U	0.85	1.44	Filtered		STL
RD-54C		Split	02/17/05	Cesium-137	0.857 U	0.76	1.34	Filtered		STL
RD-54C		Split	02/17/05	Cobalt-57	-4.38 U	3.4	5.55	Filtered		STL
RD-54C		Split	02/17/05	Cobalt-60	0.637 U	0.83	1.51	Filtered		STL
RD-54C		Split	02/17/05	Europium-152	-1.07 U	1.9	3.15	Filtered		STL
RD-54C		Split	02/17/05	Europium-154	1.17 U	2.4	4.28	Filtered		STL
RD-54C		Split	02/17/05	Manganese-54	-0.0764 U	0.8	1.36	Filtered		STL
RD-54C		Split	02/17/05	Sodium-22	0.411 U	0.87	1.54	Filtered		STL
RD-54C		Primary	02/23/06	Cesium-134	1.26 U	---	1.26	Filtered		ES
RD-54C		Primary	02/23/06	Cesium-137	1.1 U	---	1.1	Filtered		ES
RD-54C		Primary	02/23/06	Cobalt-57	0.667 U	---	0.667	Filtered		ES
RD-54C		Primary	02/23/06	Cobalt-60	1.1 U	---	1.1	Filtered		ES
RD-54C		Primary	02/23/06	Europium-152	2.82 U	---	2.82	Filtered		ES
RD-54C		Primary	02/23/06	Europium-154	3.17 U	---	3.17	Filtered		ES
RD-54C		Primary	02/23/06	Manganese-54	1.01 U	---	1.01	Filtered		ES
RD-54C		Primary	02/23/06	Sodium-22	1.08 U	---	1.08	Filtered		ES
RD-54C		Primary	02/12/07	Cesium-134	1.03 U	---	1.03	Filtered		ES
RD-54C		Primary	02/12/07	Cesium-137	0.842 U	---	0.842	Filtered		ES
RD-54C		Primary	02/12/07	Cobalt-57	0.6 U	---	0.6	Filtered		ES
RD-54C		Primary	02/12/07	Cobalt-60	0.982 U	---	0.982	Filtered		ES
RD-54C		Primary	02/12/07	Europium-152	2.26 U	---	2.26	Filtered		ES
RD-54C		Primary	02/12/07	Europium-154	2.53 U	---	2.53	Filtered		ES
RD-54C		Primary	02/12/07	Manganese-54	0.894 U	---	0.894	Filtered		ES
RD-54C		Primary	02/12/07	Sodium-22	0.915 U	---	0.915	Filtered		ES
RD-54C		Primary	02/14/08	Cesium-134	1.32 U	---	1.32	Filtered		ES
RD-54C		Primary	02/14/08	Cesium-137	1.19 U	---	1.19	Filtered		ES
RD-54C		Primary	02/14/08	Cobalt-57	1.65 U	---	1.65	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-54C		Primary	02/14/08	Cobalt-60	1.2 U	---	1.2	Filtered		ES
RD-54C		Primary	02/14/08	Europium-152	3.08 U	---	3.08	Filtered		ES
RD-54C		Primary	02/14/08	Europium-154	3.65 U	---	3.65	Filtered		ES
RD-54C		Primary	02/14/08	Manganese-54	1.26 U	---	1.26	Filtered		ES
RD-54C		Primary	02/14/08	Sodium-22	1.24 U	---	1.24	Filtered		ES
RD-56A		Primary	05/28/98	Cesium-134	7.87 U	---	7.87	Filtered		TN
RD-56A		Primary	05/28/98	Cesium-137	6.38 U	---	6.38	Filtered		TN
RD-56A		Primary	05/28/98	Cobalt-57	3.99 U	---	3.99	Filtered		TN
RD-56A		Primary	05/28/98	Cobalt-60	8 U	---	8	Filtered		TN
RD-56B		Primary	05/28/98	Cesium-134	17.2 U	---	17.2	Filtered		TN
RD-56B		Primary	05/28/98	Cesium-137	15.6 U	---	15.6	Filtered		TN
RD-56B		Primary	05/28/98	Cobalt-57	8.48 U	---	8.48	Filtered		TN
RD-56B		Primary	05/28/98	Cobalt-60	19.3 U	---	19.3	Filtered		TN
RD-57		Primary	03/16/94	Cesium-134	0 U	---	---	Filtered		LAS
RD-57		Primary	03/16/94	Cesium-137	0 U	---	---	Filtered		LAS
RD-57		Primary	03/16/94	Cobalt-57	0 U	---	---	Filtered		LAS
RD-57		Primary	03/16/94	Cobalt-60	0 U	---	---	Filtered		LAS
RD-57		Primary	05/10/94	Cesium-137	-0.3 U	2.5	3.6	Filtered		LAS
RD-57		Primary	05/10/94	Cobalt-57	0.7 U	1.7	2.9	Filtered		LAS
RD-57		Primary	05/10/94	Cobalt-60	-0.2 U	1.5	3.3	Filtered		LAS
RD-57		Primary	08/18/94	Cesium-134	-5 U	---	28	Filtered		LAS
RD-57		Primary	08/18/94	Cesium-137	0 U	---	30	Filtered		LAS
RD-57		Primary	08/18/94	Cobalt-57	-2.7 U	---	22	Filtered		LAS
RD-57		Primary	08/18/94	Cobalt-60	8 U	---	31	Filtered		LAS
RD-57		Primary	02/07/95	Cesium-134	-4.1 U	3	6.2	Filtered		LAS
RD-57		Primary	02/07/95	Cesium-137	-0.7 U	3.8	10	Filtered		LAS
RD-57		Primary	02/07/95	Cobalt-57	1.1 U	2.5	4.1	Filtered		LAS
RD-57		Primary	02/07/95	Cobalt-60	-2.5 U	3.8	13	Filtered		LAS
RD-57		Primary	08/09/95	Cesium-134	0.7 U	3.7	7.2	Filtered		LAS
RD-57		Primary	08/09/95	Cesium-137	-1.1 U	4.8	9.1	Filtered		LAS
RD-57		Primary	08/09/95	Cobalt-57	-0.8 U	2.7	4.8	Filtered		LAS
RD-57		Primary	08/09/95	Cobalt-60	3.9 U	5	8.2	Filtered		LAS
RD-57		Primary	02/19/96	Cesium-134	-1.4 U	3.4	7	Filtered		LAS
RD-57		Primary	02/19/96	Cesium-137	-0.1 U	6.7	9.3	Filtered		LAS
RD-57		Primary	02/19/96	Cobalt-57	-1.1 U	2.5	4.5	Filtered		LAS
RD-57		Primary	02/19/96	Cobalt-60	0.2 U	4.2	8	Filtered		LAS
RD-57		Primary	08/22/96	Cesium-134	3.2 U	3.2	5.8	Filtered		LAS
RD-57		Primary	08/22/96	Cesium-137	1.4 U	6.2	8.4	Filtered		LAS
RD-57		Primary	08/22/96	Cobalt-57	-3.3 U	1.7	4.8	Filtered		LAS
RD-57		Primary	08/22/96	Cobalt-60	1.1 U	3.9	8.3	Filtered		LAS
RD-57		Primary	02/25/97	Cesium-134	-0.2 U	3.4	7.1	Filtered		LAS
RD-57		Primary	02/25/97	Cesium-137	0.1 U	6.6	9.1	Filtered		LAS
RD-57		Primary	02/25/97	Cobalt-57	-0.8 U	1.8	4.6	Filtered		LAS
RD-57		Primary	02/25/97	Cobalt-60	-4.3 U	3.3	9.5	Filtered		LAS
RD-57		Primary	08/27/97	Cesium-134	-1.9 U	3.3	7.9	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-57		Primary	08/27/97	Cesium-134	-0.1 U	3.1	7.3	Unfiltered		LAS
RD-57		Primary	08/27/97	Cesium-137	3.6 U	7.5	9.9	Filtered		LAS
RD-57		Primary	08/27/97	Cesium-137	2.6 U	7	9.3	Unfiltered		LAS
RD-57		Primary	08/27/97	Cobalt-57	0.6 U	3.3	4.3	Filtered		LAS
RD-57		Primary	08/27/97	Cobalt-57	-1.4 U	1.6	4.4	Unfiltered		LAS
RD-57		Primary	08/27/97	Cobalt-60	2.9 U	5.7	11	Filtered		LAS
RD-57		Primary	08/27/97	Cobalt-60	-1 U	3.2	10	Unfiltered		LAS
RD-57		Primary	05/26/98	Cesium-134	8.26 U	---	8.26	Filtered		TN
RD-57		Primary	05/26/98	Cesium-137	6.41 U	---	6.41	Filtered		TN
RD-57		Primary	05/26/98	Cobalt-57	3.9 U	---	3.9	Filtered		TN
RD-57		Primary	05/26/98	Cobalt-60	6.88 U	---	6.88	Filtered		TN
RD-57		Primary	08/17/98	Cesium-134	18.8 U	---	18.8	Filtered		TN
RD-57		Primary	08/17/98	Cesium-137	12.4 U	---	12.4	Filtered		TN
RD-57		Primary	08/17/98	Cobalt-57	8.57 U	---	8.57	Filtered		TN
RD-57		Primary	08/17/98	Cobalt-60	10.9 U	---	10.9	Filtered		TN
RD-57		Primary	05/13/99	Cesium-134	7.92 U	---	7.92	Filtered		TN
RD-57		Primary	05/13/99	Cesium-137	6.32 U	---	6.32	Filtered		TN
RD-57		Primary	05/13/99	Cobalt-57	3.62 U	---	3.62	Filtered		TN
RD-57		Primary	05/13/99	Cobalt-60	6.11 U	---	6.11	Filtered		TN
RD-57		Primary	02/09/00	Cesium-134	16.4 U	---	16.4	Filtered		TR
RD-57		Primary	02/09/00	Cesium-137	13.4 U	---	13.4	Filtered		TR
RD-57		Primary	02/09/00	Cobalt-57	6.95 U	---	6.95	Filtered		TR
RD-57		Primary	02/09/00	Cobalt-60	14.7 U	---	14.7	Filtered		TR
RD-57		Primary	05/11/01	Cesium-134	7.56 U	---	7.56	Filtered		ES
RD-57		Primary	05/11/01	Cesium-137	6.06 U	---	6.06	Filtered		ES
RD-57		Primary	05/11/01	Cobalt-57	3.27 U	---	3.27	Filtered		ES
RD-57		Primary	05/11/01	Cobalt-60	7.44 U	---	7.44	Filtered		ES
RD-57		Primary	02/14/02	Cesium-134	5 U	1	5	Filtered		DL
RD-57		Primary	02/14/02	Cesium-137	5 U	0.4	5	Filtered		DL
RD-57		Primary	02/14/02	Cobalt-57	5 U	1	5	Filtered		DL
RD-57		Primary	02/14/02	Cobalt-60	5 U	1	5	Filtered		DL
RD-57	Z8	Primary	01/29/03	Cesium-134	2.11 U	---	2.11	Filtered		ES
RD-57	Z8	Primary	01/29/03	Cesium-137	1.59 U	---	1.59	Filtered		ES
RD-57	Z8	Primary	01/29/03	Cobalt-57	1.16 U	---	1.16	Filtered		ES
RD-57	Z8	Primary	01/29/03	Cobalt-60	2.12 U	---	2.12	Filtered		ES
RD-57	Z8	Primary	04/30/03	Cesium-134	3.63 U	---	3.63	Filtered		ES
RD-57	Z8	Primary	04/30/03	Cesium-137	1.25 U	---	1.25	Filtered		ES
RD-57	Z8	Primary	04/30/03	Cobalt-57	0.901 U	---	0.901	Filtered		ES
RD-57	Z8	Primary	04/30/03	Cobalt-60	1.58 U	---	1.58	Filtered		ES
RD-57	Z7	Primary	03/08/05	Cesium-134	1.53 U	---	1.53	Filtered		ES
RD-57	Z7	Primary	03/08/05	Cesium-137	1.32 U	---	1.32	Filtered		ES
RD-57	Z7	Primary	03/08/05	Cobalt-57	0.908 U	---	0.908	Filtered		ES
RD-57	Z7	Primary	03/08/05	Cobalt-60	1.4 U	---	1.4	Filtered		ES
RD-57	Z7	Primary	03/08/05	Europium-152	3.46 U	---	3.46	Filtered		ES
RD-57	Z7	Primary	03/08/05	Europium-154	4.2 U	---	4.2	Filtered		ES
RD-57	Z7	Primary	03/08/05	Manganese-54	1.38 U	---	1.38	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-57	Z7	Primary	03/08/05	Sodium-22	1.44 U	---	1.44	Filtered		ES
RD-57	Z7	Primary	02/20/06	Cesium-134	1.14 U	---	1.14	Filtered		ES
RD-57	Z7	Primary	02/20/06	Cesium-137	0.942 U	---	0.942	Filtered		ES
RD-57	Z7	Primary	02/20/06	Cobalt-57	0.704 U	---	0.704	Filtered		ES
RD-57	Z7	Primary	02/20/06	Cobalt-60	1.02 U	---	1.02	Filtered		ES
RD-57	Z7	Primary	02/20/06	Europium-152	2.4 U	---	2.4	Filtered		ES
RD-57	Z7	Primary	02/20/06	Europium-154	3.15 U	---	3.15	Filtered		ES
RD-57	Z7	Primary	02/20/06	Manganese-54	0.939 U	---	0.939	Filtered		ES
RD-57	Z7	Primary	02/20/06	Sodium-22	1.09 U	---	1.09	Filtered		ES
RD-57	Z7	Primary	02/08/07	Cesium-134	1.35 U	---	1.35	Filtered		ES
RD-57	Z7	Primary	02/08/07	Cesium-137	1.04 U	---	1.04	Filtered		ES
RD-57	Z7	Primary	02/08/07	Cobalt-57	0.706 U	---	0.706	Filtered		ES
RD-57	Z7	Primary	02/08/07	Cobalt-60	1.07 U	---	1.07	Filtered		ES
RD-57	Z7	Primary	02/08/07	Europium-152	2.93 U	---	2.93	Filtered		ES
RD-57	Z7	Primary	02/08/07	Europium-154	3.3 U	---	3.3	Filtered		ES
RD-57	Z7	Primary	02/08/07	Manganese-54	1.01 U	---	1.01	Filtered		ES
RD-57	Z7	Primary	02/08/07	Sodium-22	1.12 U	---	1.12	Filtered		ES
RD-57	Z8	Primary	02/07/08	Cesium-134	1.05 U	---	1.05	Filtered		ES
RD-57	Z8	Primary	02/07/08	Cesium-137	0.861 U	---	0.861	Filtered		ES
RD-57	Z8	Primary	02/07/08	Cobalt-57	0.705 U	---	0.705	Filtered		ES
RD-57	Z8	Primary	02/07/08	Cobalt-60	0.753 U	---	0.753	Filtered		ES
RD-57	Z8	Primary	02/07/08	Europium-152	2.72 U	---	2.72	Filtered		ES
RD-57	Z8	Primary	02/07/08	Europium-154	2.26 U	---	2.26	Filtered		ES
RD-57	Z8	Primary	02/07/08	Manganese-54	0.769 U	---	0.769	Filtered		ES
RD-57	Z8	Primary	02/07/08	Sodium-22	0.769 U	---	0.769	Filtered		ES
RD-59A		Primary	08/16/94	Cesium-134	1 U	---	34	Filtered		LAS
RD-59A		Primary	08/16/94	Cesium-137	-6 U	---	40	Filtered		LAS
RD-59A		Primary	08/16/94	Cobalt-57	-12.5 U	---	26	Filtered		LAS
RD-59A		Primary	08/16/94	Cobalt-60	8 U	---	38	Filtered		LAS
RD-59A		Primary	02/06/95	Cesium-134	-4.1 U	3.4	8.5	Filtered		LAS
RD-59A		Duplicate	02/06/95	Cesium-134	7.3 U	---	7.3	Filtered		LAS
RD-59A		Duplicate	02/06/95	Cesium-134	1.7 U	3.7	7.3	Filtered		LAS
RD-59A		Primary	02/06/95	Cesium-137	0.6 U	7.5	10	Filtered		LAS
RD-59A		Duplicate	02/06/95	Cesium-137	11 U	---	11	Filtered		LAS
RD-59A		Duplicate	02/06/95	Cesium-137	-0.6 U	1.7	11	Filtered		LAS
RD-59A		Primary	02/06/95	Cobalt-57	-0.9 U	3.2	5.6	Filtered		LAS
RD-59A		Duplicate	02/06/95	Cobalt-57	-1.6 U	2.9	5.1	Filtered		LAS
RD-59A		Duplicate	02/06/95	Cobalt-57	5.1 U	---	5.1	Filtered		LAS
RD-59A		Primary	02/06/95	Cobalt-60	-1.1 U	5.1	13	Filtered		LAS
RD-59A		Duplicate	02/06/95	Cobalt-60	12 U	---	12	Filtered		LAS
RD-59A		Duplicate	02/06/95	Cobalt-60	-0.7 U	4.7	12	Filtered		LAS
RD-59A		Primary	08/08/95	Cesium-134	-0.7 U	2.6	8.2	Filtered		LAS
RD-59A		Primary	08/08/95	Cesium-137	-5.3 U	5	10	Filtered		LAS
RD-59A		Primary	08/08/95	Cobalt-57	1.2 U	2.9	4.9	Filtered		LAS
RD-59A		Primary	08/08/95	Cobalt-60	0 U	---	10	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-59A		Primary	03/12/96	Cesium-134	-4 U	3.1	8.3	Filtered		LAS
RD-59A		Primary	03/12/96	Cesium-137	-0.4 U	2.3	9.9	Filtered		LAS
RD-59A		Primary	03/12/96	Cobalt-57	-1.5 U	3	5.2	Filtered		LAS
RD-59A		Primary	03/12/96	Cobalt-60	-3.3 U	3.4	14	Filtered		LAS
RD-59A		Primary	08/21/96	Cesium-134	-3.7 U	3.5	9	Filtered		LAS
RD-59A		Primary	08/21/96	Cesium-137	-7.8 U	6.4	13	Filtered		LAS
RD-59A		Primary	08/21/96	Cobalt-57	-1.3 U	2.4	5.6	Filtered		LAS
RD-59A		Primary	08/21/96	Cobalt-60	-3.2 U	3.6	8.3	Filtered		LAS
RD-59A		Primary	02/16/97	Cesium-134	3.4 U	4.4	7.4	Filtered		LAS
RD-59A		Primary	02/16/97	Cesium-137	6.8 U	9.6	12	Filtered		LAS
RD-59A		Primary	02/16/97	Cobalt-57	2.4 U	2.9	4.7	Filtered		LAS
RD-59A		Primary	02/16/97	Cobalt-60	-1.5 U	3.8	13	Filtered		LAS
RD-59A		Primary	08/22/97	Cesium-134	-0.5 U	1.6	3.6	Filtered		LAS
RD-59A		Primary	08/22/97	Cesium-137	-3.3 U	2.5	4.9	Filtered		LAS
RD-59A		Primary	08/22/97	Cobalt-57	0.4 U	2.8	3.8	Filtered		LAS
RD-59A		Primary	08/22/97	Cobalt-60	-1 U	1.1	4.8	Filtered		LAS
RD-59A		Primary	08/19/98	Cesium-134	34 U	---	34	Filtered		TN
RD-59A		Primary	08/19/98	Cesium-137	24.3 U	---	24.3	Filtered		TN
RD-59A		Primary	08/19/98	Cobalt-57	19.6 U	---	19.6	Filtered		TN
RD-59A		Primary	08/19/98	Cobalt-60	22.6 U	---	22.6	Filtered		TN
RD-59A		Primary	02/16/99	Cesium-134	7.58 U	---	7.58	Filtered		TN
RD-59A		Primary	02/16/99	Cesium-137	5.3 U	---	5.3	Filtered		TN
RD-59A		Primary	02/16/99	Cobalt-57	3.82 U	---	3.82	Filtered		TN
RD-59A		Primary	02/16/99	Cobalt-60	6.82 U	---	6.82	Filtered		TN
RD-59A		Primary	03/14/00	Cesium-134	15.4 U	---	15.4	Filtered		TR
RD-59A		Primary	03/14/00	Cesium-137	14.6 U	---	14.6	Filtered		TR
RD-59A		Primary	03/14/00	Cobalt-57	8.7 U	---	8.7	Filtered		TR
RD-59A		Primary	03/14/00	Cobalt-60	13.1 U	---	13.1	Filtered		TR
RD-59A		Primary	05/16/01	Cesium-134	14.1 U	---	14.1	Filtered		ES
RD-59A		Primary	05/16/01	Cesium-137	17.8 U	---	17.8	Filtered		ES
RD-59A		Primary	05/16/01	Cobalt-57	6.88 U	---	6.88	Filtered		ES
RD-59A		Primary	05/16/01	Cobalt-60	12.2 U	---	12.2	Filtered		ES
RD-59A		Primary	02/28/02	Cesium-134	3 U	1	3	Filtered		DL
RD-59A		Primary	02/28/02	Cesium-137	3 U	1	3	Filtered		DL
RD-59A		Primary	02/28/02	Cobalt-57	5 U	3	5	Filtered		DL
RD-59A		Primary	02/28/02	Cobalt-60	5 U	3	5	Filtered		DL
RD-59A		Primary	01/31/03	Cesium-134	1.69 U	---	1.69	Filtered		ES
RD-59A		Primary	01/31/03	Cesium-137	1.39 U	---	1.39	Filtered		ES
RD-59A		Primary	01/31/03	Cobalt-57	0.979 U	---	0.979	Filtered		ES
RD-59A		Primary	01/31/03	Cobalt-60	1.3 U	---	1.3	Filtered		ES
RD-59A		Primary	05/15/03	Cesium-134	2.26 U	---	2.26	Filtered		ES
RD-59A		Primary	05/15/03	Cesium-137	1.42 U	---	1.42	Filtered		ES
RD-59A		Primary	05/15/03	Cobalt-57	1.24 U	---	1.24	Filtered		ES
RD-59A		Primary	05/15/03	Cobalt-60	1.47 U	---	1.47	Filtered		ES
RD-59A		Primary	11/16/04	Cesium-134	1.99 U	---	1.99	Filtered		ES
RD-59A		Primary	11/16/04	Cesium-137	1.81 U	---	1.81	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-59A		Primary	11/16/04	Cobalt-57	1.31 U	---	1.31	Filtered		ES
RD-59A		Primary	11/16/04	Cobalt-60	1.9 U	---	1.9	Filtered		ES
RD-59A		Primary	11/16/04	Europium-152	4.44 U	---	4.44	Filtered		ES
RD-59A		Primary	11/16/04	Europium-154	5.02 U	---	5.02	Filtered		ES
RD-59A		Primary	11/16/04	Manganese-54	1.82 U	---	1.82	Filtered		ES
RD-59A		Primary	11/16/04	Sodium-22	1.72 U	---	1.72	Filtered		ES
RD-59A		Primary	09/07/05	Cesium-134	1.12 U	---	1.12	Filtered		ES
RD-59A		Primary	09/07/05	Cesium-137	0.933 U	---	0.933	Filtered		ES
RD-59A		Primary	09/07/05	Cobalt-57	0.764 U	---	0.764	Filtered		ES
RD-59A		Primary	09/07/05	Cobalt-60	0.922 U	---	0.922	Filtered		ES
RD-59A		Primary	09/07/05	Europium-152	2.81 U	---	2.81	Filtered		ES
RD-59A		Primary	09/07/05	Europium-154	2.8 U	---	2.8	Filtered		ES
RD-59A		Primary	09/07/05	Manganese-54	0.986 U	---	0.986	Filtered		ES
RD-59A		Primary	09/07/05	Sodium-22	0.97 U	---	0.97	Filtered		ES
RD-59A		Primary	08/23/06	Cesium-134	2.05 U	---	2.05	Filtered		ES
RD-59A		Primary	08/23/06	Cesium-137	1.69 U	---	1.69	Filtered		ES
RD-59A		Primary	08/23/06	Cobalt-57	0.995 U	---	0.995	Filtered		ES
RD-59A		Primary	08/23/06	Cobalt-60	1.62 U	---	1.62	Filtered		ES
RD-59A		Primary	08/23/06	Europium-152	4.34 U	---	4.34	Filtered		ES
RD-59A		Primary	08/23/06	Europium-154	4.83 U	---	4.83	Filtered		ES
RD-59A		Primary	08/23/06	Manganese-54	1.68 U	---	1.68	Filtered		ES
RD-59A		Primary	08/23/06	Sodium-22	1.65 U	---	1.65	Filtered		ES
RD-59A		Primary	11/14/06	Cesium-134	3.02 U	---	3.02	Filtered		ES
RD-59A		Primary	11/14/06	Cesium-137	2.57 U	---	2.57	Filtered		ES
RD-59A		Primary	11/14/06	Cobalt-57	1.83 U	---	1.83	Filtered		ES
RD-59A		Primary	11/14/06	Cobalt-60	2.65 U	---	2.65	Filtered		ES
RD-59A		Primary	11/14/06	Europium-152	7.38 U	---	7.38	Filtered		ES
RD-59A		Primary	11/14/06	Europium-154	8.03 U	---	8.03	Filtered		ES
RD-59A		Primary	11/14/06	Manganese-54	2.48 U	---	2.48	Filtered		ES
RD-59A		Primary	11/14/06	Sodium-22	2.73 U	---	2.73	Filtered		ES
RD-59A		Primary	02/28/07	Cesium-134	1.29 U	---	1.29	Filtered		ES
RD-59A		Primary	02/28/07	Cesium-137	1.03 U	---	1.03	Filtered		ES
RD-59A		Primary	02/28/07	Cobalt-57	0.715 U	---	0.715	Filtered		ES
RD-59A		Primary	02/28/07	Cobalt-60	1.09 U	---	1.09	Filtered		ES
RD-59A		Primary	02/28/07	Europium-152	2.91 U	---	2.91	Filtered		ES
RD-59A		Primary	02/28/07	Europium-154	3.14 U	---	3.14	Filtered		ES
RD-59A		Primary	02/28/07	Manganese-54	0.978 U	---	0.978	Filtered		ES
RD-59A		Primary	02/28/07	Sodium-22	1.07 U	---	1.07	Filtered		ES
RD-59A		Primary	05/20/08	Cesium-134	1.3 U	---	1.3	Filtered		ES
RD-59A		Primary	05/20/08	Cesium-137	1.17 U	---	1.17	Filtered		ES
RD-59A		Primary	05/20/08	Cobalt-57	0.857 U	---	0.857	Filtered		ES
RD-59A		Primary	05/20/08	Cobalt-60	1.01 U	---	1.01	Filtered		ES
RD-59A		Primary	05/20/08	Europium-152	3.01 U	---	3.01	Filtered		ES
RD-59A		Primary	05/20/08	Europium-154	2.76 U	---	2.76	Filtered		ES
RD-59A		Primary	05/20/08	Manganese-54	0.896 U	---	0.896	Filtered		ES
RD-59A		Primary	05/20/08	Sodium-22	0.935 U	---	0.935	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-59B		Primary	08/16/94	Cesium-134	-15 U	---	46	Filtered		LAS
RD-59B		Primary	08/16/94	Cesium-137	4 U	---	50	Filtered		LAS
RD-59B		Primary	08/16/94	Cobalt-57	-7 U	---	21	Filtered		LAS
RD-59B		Primary	08/16/94	Cobalt-60	-19 U	---	53	Filtered		LAS
RD-59B		Primary	02/06/95	Cesium-134	1.6 U	3.9	6.7	Filtered		LAS
RD-59B		Primary	02/06/95	Cesium-137	2.5 U	6.9	8.8	Filtered		LAS
RD-59B		Primary	02/06/95	Cobalt-57	-0.7 U	2.8	5	Filtered		LAS
RD-59B		Primary	02/06/95	Cobalt-60	-2.4 U	3.9	11	Filtered		LAS
RD-59B		Primary	08/08/95	Cesium-134	0.3 U	3.6	7.4	Filtered		LAS
RD-59B		Primary	08/08/95	Cesium-137	2.1 U	6	10	Filtered		LAS
RD-59B		Primary	08/08/95	Cobalt-57	1.1 U	2.9	4.8	Filtered		LAS
RD-59B		Primary	08/08/95	Cobalt-60	1.2 U	4.8	9.9	Filtered		LAS
RD-59B		Primary	03/12/96	Cesium-134	-0.7 U	2	3.6	Filtered		LAS
RD-59B		Primary	03/12/96	Cesium-137	-1.1 U	1.6	4.5	Filtered		LAS
RD-59B		Primary	03/12/96	Cobalt-57	-0.4 U	1.3	3.4	Filtered		LAS
RD-59B		Primary	03/12/96	Cobalt-60	0.7 U	2	4	Filtered		LAS
RD-59B		Primary	08/21/96	Cesium-134	2.2 U	3.4	6.3	Filtered		LAS
RD-59B		Primary	08/21/96	Cesium-137	-6.2 U	3.2	11	Filtered		LAS
RD-59B		Primary	08/21/96	Cobalt-57	-0.1 U	3.5	4.9	Filtered		LAS
RD-59B		Primary	08/21/96	Cobalt-60	3.5 U	3.7	9	Filtered		LAS
RD-59B		Primary	02/16/97	Cesium-134	0.6 U	4.2	7.8	Filtered		LAS
RD-59B		Primary	02/16/97	Cesium-137	-0.7 U	3.1	9.9	Filtered		LAS
RD-59B		Primary	02/16/97	Cobalt-57	1.4 U	2.6	4.3	Filtered		LAS
RD-59B		Primary	02/16/97	Cobalt-60	-1.2 U	2.8	10	Filtered		LAS
RD-59B		Primary	08/22/97	Cesium-134	0.3 U	1.7	3.7	Filtered		LAS
RD-59B		Primary	08/22/97	Cesium-137	1.7 U	2.2	3.5	Filtered		LAS
RD-59B		Primary	08/22/97	Cobalt-57	-1.4 U	1.3	3.5	Filtered		LAS
RD-59B		Primary	08/22/97	Cobalt-60	1.6 U	1.8	3.5	Filtered		LAS
RD-59B		Primary	08/19/98	Cesium-134	14.6 U	---	14.6	Filtered		TN
RD-59B		Primary	08/19/98	Cesium-137	12.9 U	---	12.9	Filtered		TN
RD-59B		Primary	08/19/98	Cobalt-57	7.76 U	---	7.76	Filtered		TN
RD-59B		Primary	08/19/98	Cobalt-60	15.2 U	---	15.2	Filtered		TN
RD-59B		Primary	02/16/99	Cesium-134	17.1 U	---	17.1	Filtered		TN
RD-59B		Primary	02/16/99	Cesium-137	14.6 U	---	14.6	Filtered		TN
RD-59B		Primary	02/16/99	Cobalt-57	9.33 U	---	9.33	Filtered		TN
RD-59B		Primary	02/16/99	Cobalt-60	18.1 U	---	18.1	Filtered		TN
RD-59B		Primary	03/14/00	Cesium-134	8.51 U	---	8.51	Filtered		TR
RD-59B		Primary	03/14/00	Cesium-137	6.81 U	---	6.81	Filtered		TR
RD-59B		Primary	03/14/00	Cobalt-57	3.92 U	---	3.92	Filtered		TR
RD-59B		Primary	03/14/00	Cobalt-60	7.31 U	---	7.31	Filtered		TR
RD-59B		Primary	02/17/01	Cesium-134	15.9 U	---	15.9	Filtered		ES
RD-59B		Primary	02/17/01	Cesium-137	13.3 U	---	13.3	Filtered		ES
RD-59B		Primary	02/17/01	Cobalt-57	5.53 U	---	5.53	Filtered		ES
RD-59B		Primary	02/17/01	Cobalt-60	17.7 U	---	17.7	Filtered		ES
RD-59B		Primary	02/28/02	Cesium-134	3 U	1	3	Filtered		DL

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-59B		Primary	02/28/02	Cesium-137	3 U	1	3	Filtered		DL
RD-59B		Primary	02/28/02	Cobalt-57	5 U	3	5	Filtered		DL
RD-59B		Primary	02/28/02	Cobalt-60	5 U	3	5	Filtered		DL
RD-59B		Primary	01/31/03	Cesium-134	2.25 U	---	2.25	Filtered		ES
RD-59B		Primary	01/31/03	Cesium-137	1.98 U	---	1.98	Filtered		ES
RD-59B		Primary	01/31/03	Cobalt-57	1.42 U	---	1.42	Filtered		ES
RD-59B		Primary	01/31/03	Cobalt-60	1.99 U	---	1.99	Filtered		ES
RD-59B		Primary	11/05/04	Cesium-134	2.19 U	---	2.19	Filtered		ES
RD-59B		Primary	11/05/04	Cesium-137	1.85 U	---	1.85	Filtered		ES
RD-59B		Primary	11/05/04	Cobalt-57	1.34 U	---	1.34	Filtered		ES
RD-59B		Primary	11/05/04	Cobalt-60	1.91 U	---	1.91	Filtered		ES
RD-59B		Primary	11/05/04	Europium-152	5.01 U	---	5.01	Filtered		ES
RD-59B		Primary	11/05/04	Europium-154	5.8 U	---	5.8	Filtered		ES
RD-59B		Primary	11/05/04	Manganese-54	1.82 U	---	1.82	Filtered		ES
RD-59B		Primary	11/05/04	Sodium-22	2.01 U	---	2.01	Filtered		ES
RD-59B		Primary	09/07/05	Cesium-134	1.67 U	---	1.67	Filtered		ES
RD-59B		Primary	09/07/05	Cesium-137	1.31 U	---	1.31	Filtered		ES
RD-59B		Primary	09/07/05	Cobalt-57	0.622 U	---	0.622	Filtered		ES
RD-59B		Primary	09/07/05	Cobalt-60	1.55 U	---	1.55	Filtered		ES
RD-59B		Primary	09/07/05	Europium-152	3.38 U	---	3.38	Filtered		ES
RD-59B		Primary	09/07/05	Europium-154	4.51 U	---	4.51	Filtered		ES
RD-59B		Primary	09/07/05	Manganese-54	1.42 U	---	1.42	Filtered		ES
RD-59B		Primary	09/07/05	Sodium-22	1.56 U	---	1.56	Filtered		ES
RD-59B		Primary	02/22/06	Cesium-134	1.78 U	---	1.78	Filtered		ES
RD-59B		Primary	02/22/06	Cesium-137	1.46 U	---	1.46	Filtered		ES
RD-59B		Primary	02/22/06	Cobalt-57	1.17 U	---	1.17	Filtered		ES
RD-59B		Primary	02/22/06	Cobalt-60	1.46 U	---	1.46	Filtered		ES
RD-59B		Primary	02/22/06	Europium-152	3.74 U	---	3.74	Filtered		ES
RD-59B		Primary	02/22/06	Europium-154	4.35 U	---	4.35	Filtered		ES
RD-59B		Primary	02/22/06	Manganese-54	1.47 U	---	1.47	Filtered		ES
RD-59B		Primary	02/22/06	Sodium-22	1.49 U	---	1.49	Filtered		ES
RD-59B		Primary	11/14/06	Cesium-134	1.38 U	---	1.38	Filtered		ES
RD-59B		Primary	11/14/06	Cesium-137	1.27 U	---	1.27	Filtered		ES
RD-59B		Primary	11/14/06	Cobalt-57	0.862 U	---	0.862	Filtered		ES
RD-59B		Primary	11/14/06	Cobalt-60	1.45 U	---	1.45	Filtered		ES
RD-59B		Primary	11/14/06	Europium-152	3.34 U	---	3.34	Filtered		ES
RD-59B		Primary	11/14/06	Europium-154	3.25 U	---	3.25	Filtered		ES
RD-59B		Primary	11/14/06	Manganese-54	1.12 U	---	1.12	Filtered		ES
RD-59B		Primary	11/14/06	Sodium-22	1.1 U	---	1.1	Filtered		ES
RD-59B		Primary	02/28/07	Cesium-134	1.06 U	---	1.06	Filtered		ES
RD-59B		Primary	02/28/07	Cesium-137	0.947 U	---	0.947	Filtered		ES
RD-59B		Primary	02/28/07	Cobalt-57	0.615 U	---	0.615	Filtered		ES
RD-59B		Primary	02/28/07	Cobalt-60	0.976 U	---	0.976	Filtered		ES
RD-59B		Primary	02/28/07	Europium-152	2.53 U	---	2.53	Filtered		ES
RD-59B		Primary	02/28/07	Europium-154	2.73 U	---	2.73	Filtered		ES
RD-59B		Primary	02/28/07	Manganese-54	0.97 U	---	0.97	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-59B		Primary	02/28/07	Sodium-22	0.93 U	---	0.93	Filtered		ES
RD-59B		Split	02/28/07	Beryllium-7	1.91 U	7.2	12.4	Filtered		STL
RD-59B		Split	02/28/07	Cesium-134	-0.171 U	0.8	1.36	Filtered		STL
RD-59B		Split	02/28/07	Cesium-137	-0.499 U	0.74	1.24	Filtered		STL
RD-59B		Split	02/28/07	Cobalt-60	-0.457 U	0.7	1.15	Filtered		STL
RD-59B		Split	02/28/07	Europium-152	-0.871 U	1.9	3.08	Filtered		STL
RD-59B		Split	02/28/07	Europium-154	-0.326 U	2.1	3.61	Filtered		STL
RD-59B		Split	02/28/07	Manganese-54	0.264 U	0.73	1.27	Filtered		STL
RD-59B		Split	02/28/07	Sodium-22	-0.0745 U	0.76	1.31	Filtered		STL
RD-59B		Primary	05/20/08	Cesium-134	1.24 U	---	1.24	Filtered		ES
RD-59B		Primary	05/20/08	Cesium-137	1.1 U	---	1.1	Filtered		ES
RD-59B		Primary	05/20/08	Cobalt-57	0.718 U	---	0.718	Filtered		ES
RD-59B		Primary	05/20/08	Cobalt-60	1.02 U	---	1.02	Filtered		ES
RD-59B		Primary	05/20/08	Europium-152	2.86 U	---	2.86	Filtered		ES
RD-59B		Primary	05/20/08	Europium-154	2.97 U	---	2.97	Filtered		ES
RD-59B		Primary	05/20/08	Manganese-54	0.94 U	---	0.94	Filtered		ES
RD-59B		Primary	05/20/08	Sodium-22	1.01 U	---	1.01	Filtered		ES
RD-59C		Primary	08/16/94	Cesium-134	-29 U	---	49	Filtered		LAS
RD-59C		Primary	08/16/94	Cesium-137	10 U	---	47	Filtered		LAS
RD-59C		Primary	08/16/94	Cobalt-57	12 U	---	21	Filtered		LAS
RD-59C		Primary	08/16/94	Cobalt-60	0 U	---	47	Filtered		LAS
RD-59C		Primary	02/06/95	Cesium-134	-1.8 U	3.7	7	Filtered		LAS
RD-59C		Primary	02/06/95	Cesium-137	2.4 U	7.3	9.5	Filtered		LAS
RD-59C		Primary	02/06/95	Cobalt-57	-2.5 U	2.9	5.4	Filtered		LAS
RD-59C		Primary	02/06/95	Cobalt-60	-4.1 U	3.9	13	Filtered		LAS
RD-59C		Primary	08/08/95	Cesium-134	2.3 U	4.5	7.9	Filtered		LAS
RD-59C		Primary	08/08/95	Cesium-137	0.1 U	5.5	9.9	Filtered		LAS
RD-59C		Primary	08/08/95	Cobalt-57	2.5 U	3	4.8	Filtered		LAS
RD-59C		Primary	08/08/95	Cobalt-60	-3 U	3.5	12	Filtered		LAS
RD-59C		Primary	03/12/96	Cesium-134	-1.7 U	3	7.4	Filtered		LAS
RD-59C		Primary	03/12/96	Cesium-137	0.7 U	6.2	8.4	Filtered		LAS
RD-59C		Primary	03/12/96	Cobalt-57	0.3 U	3.5	4.8	Filtered		LAS
RD-59C		Primary	03/12/96	Cobalt-60	-0.9 U	2.5	9.3	Filtered		LAS
RD-59C		Primary	08/21/96	Cesium-134	-1.5 U	2.6	6	Filtered		LAS
RD-59C		Primary	08/21/96	Cesium-137	-1.1 U	5.1	9.5	Filtered		LAS
RD-59C		Primary	08/21/96	Cobalt-57	-0.1 U	3.3	4.4	Filtered		LAS
RD-59C		Primary	08/21/96	Cobalt-60	-1 U	4.1	9.6	Filtered		LAS
RD-59C		Primary	02/16/97	Cesium-134	0.4 U	3.4	6.4	Filtered		LAS
RD-59C		Primary	02/16/97	Cesium-137	-0.1 U	6	8.2	Filtered		LAS
RD-59C		Primary	02/16/97	Cobalt-57	1.9 U	2.5	4	Filtered		LAS
RD-59C		Primary	02/16/97	Cobalt-60	-0.8 U	1.4	6.9	Filtered		LAS
RD-59C		Primary	08/22/97	Cesium-134	-0.7 U	1.5	3.8	Filtered		LAS
RD-59C		Primary	08/22/97	Cesium-137	0.7 U	2.1	3.6	Filtered		LAS
RD-59C		Primary	08/22/97	Cobalt-57	0.6 U	2.6	3.3	Filtered		LAS
RD-59C		Primary	08/22/97	Cobalt-60	0.2 U	1.7	3	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-59C		Primary	08/19/98	Cesium-134	17.8 U	---	17.8	Filtered		TN
RD-59C		Primary	08/19/98	Cesium-137	13.4 U	---	13.4	Filtered		TN
RD-59C		Primary	08/19/98	Cobalt-57	7.64 U	---	7.64	Filtered		TN
RD-59C		Primary	08/19/98	Cobalt-60	18.5 U	---	18.5	Filtered		TN
RD-59C		Primary	02/16/99	Cesium-134	8.54 U	---	8.54	Filtered		TN
RD-59C		Primary	02/16/99	Cesium-137	6.57 U	---	6.57	Filtered		TN
RD-59C		Primary	02/16/99	Cobalt-57	4.08 U	---	4.08	Filtered		TN
RD-59C		Primary	02/16/99	Cobalt-60	7.02 U	---	7.02	Filtered		TN
RD-59C		Primary	03/14/00	Cesium-134	17 U	---	17	Filtered		TR
RD-59C		Primary	03/14/00	Cesium-137	15 U	---	15	Filtered		TR
RD-59C		Primary	03/14/00	Cobalt-57	8.02 U	---	8.02	Filtered		TR
RD-59C		Primary	03/14/00	Cobalt-60	15 U	---	15	Filtered		TR
RD-59C		Primary	02/17/01	Cesium-134	15.2 U	---	15.2	Filtered		ES
RD-59C		Primary	02/17/01	Cesium-137	13.9 U	---	13.9	Filtered		ES
RD-59C		Primary	02/17/01	Cobalt-57	8.41 U	---	8.41	Filtered		ES
RD-59C		Primary	02/17/01	Cobalt-60	13.9 U	---	13.9	Filtered		ES
RD-59C		Primary	02/28/02	Cesium-134	3 U	1	3	Filtered		DL
RD-59C		Primary	02/28/02	Cesium-137	3 U	1	3	Filtered		DL
RD-59C		Primary	02/28/02	Cobalt-57	5 U	3	5	Filtered		DL
RD-59C		Primary	02/28/02	Cobalt-60	5 U	3	5	Filtered		DL
RD-59C		Primary	01/31/03	Cesium-134	2.61 U	---	2.61	Filtered		ES
RD-59C		Primary	01/31/03	Cesium-137	2.18 U	---	2.18	Filtered		ES
RD-59C		Primary	01/31/03	Cobalt-57	1.47 U	---	1.47	Filtered		ES
RD-59C		Primary	01/31/03	Cobalt-60	2.26 U	---	2.26	Filtered		ES
RD-59C		Primary	11/05/04	Cesium-134	1.02 U	---	1.02	Filtered		ES
RD-59C		Primary	11/05/04	Cesium-137	0.793 U	---	0.793	Filtered		ES
RD-59C		Primary	11/05/04	Cobalt-57	0.49 U	---	0.49	Filtered		ES
RD-59C		Primary	11/05/04	Cobalt-60	0.805 U	---	0.805	Filtered		ES
RD-59C		Primary	11/05/04	Europium-152	2.06 U	---	2.06	Filtered		ES
RD-59C		Primary	11/05/04	Europium-154	2.24 U	---	2.24	Filtered		ES
RD-59C		Primary	11/05/04	Manganese-54	0.787 U	---	0.787	Filtered		ES
RD-59C		Primary	11/05/04	Sodium-22	0.776 U	---	0.776	Filtered		ES
RD-59C		Primary	09/07/05	Cesium-134	2.04 U	---	2.04	Filtered		ES
RD-59C		Primary	09/07/05	Cesium-137	1.5 U	---	1.5	Filtered		ES
RD-59C		Primary	09/07/05	Cobalt-57	0.98 U	---	0.98	Filtered		ES
RD-59C		Primary	09/07/05	Cobalt-60	1.44 U	---	1.44	Filtered		ES
RD-59C		Primary	09/07/05	Europium-152	3.78 U	---	3.78	Filtered		ES
RD-59C		Primary	09/07/05	Europium-154	4.44 U	---	4.44	Filtered		ES
RD-59C		Primary	09/07/05	Manganese-54	1.56 U	---	1.56	Filtered		ES
RD-59C		Primary	09/07/05	Sodium-22	1.46 U	---	1.46	Filtered		ES
RD-59C		Primary	02/22/06	Cesium-134	1.49 U	---	1.49	Filtered		ES
RD-59C		Split	02/22/06	Cesium-134	-0.11 U	1	1.68	Filtered		STL
RD-59C		Primary	02/22/06	Cesium-137	1.13 U	---	1.13	Filtered		ES
RD-59C		Split	02/22/06	Cesium-137	1.26 U	1	1.66	Filtered		STL
RD-59C		Primary	02/22/06	Cobalt-57	0.731 U	---	0.731	Filtered		ES
RD-59C		Split	02/22/06	Cobalt-57	-2.03 U	4	6.54	Filtered		STL

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-59C		Primary	02/22/06	Cobalt-60	1.14 U	---	1.14	Filtered		ES
RD-59C		Split	02/22/06	Cobalt-60	-0.112 U	1	1.81	Filtered		STL
RD-59C		Primary	02/22/06	Europium-152	2.84 U	---	2.84	Filtered		ES
RD-59C		Split	02/22/06	Europium-152	-1.45 U	2	3.52	Filtered		STL
RD-59C		Primary	02/22/06	Europium-154	3.19 U	---	3.19	Filtered		ES
RD-59C		Split	02/22/06	Europium-154	2.73 U	3	5.35	Filtered		STL
RD-59C		Primary	02/22/06	Manganese-54	1.14 U	---	1.14	Filtered		ES
RD-59C		Split	02/22/06	Manganese-54	-0.169 U	1	1.54	Filtered		STL
RD-59C		Primary	02/22/06	Sodium-22	1.09 U	---	1.09	Filtered		ES
RD-59C		Split	02/22/06	Sodium-22	0.877 U	1	1.91	Filtered		STL
RD-59C		Primary	11/14/06	Cesium-134	1.21 U	---	1.21	Filtered		ES
RD-59C		Primary	11/14/06	Cesium-137	1.18 U	---	1.18	Filtered		ES
RD-59C		Primary	11/14/06	Cobalt-57	0.785 U	---	0.785	Filtered		ES
RD-59C		Primary	11/14/06	Cobalt-60	1.18 U	---	1.18	Filtered		ES
RD-59C		Primary	11/14/06	Europium-152	2.92 U	---	2.92	Filtered		ES
RD-59C		Primary	11/14/06	Europium-154	3.34 U	---	3.34	Filtered		ES
RD-59C		Primary	11/14/06	Manganese-54	1.09 U	---	1.09	Filtered		ES
RD-59C		Primary	11/14/06	Sodium-22	1.14 U	---	1.14	Filtered		ES
RD-59C		Primary	02/28/07	Cesium-134	1.35 U	---	1.35	Filtered		ES
RD-59C		Primary	02/28/07	Cesium-137	1.03 U	---	1.03	Filtered		ES
RD-59C		Primary	02/28/07	Cobalt-57	0.666 U	---	0.666	Filtered		ES
RD-59C		Primary	02/28/07	Cobalt-60	1.06 U	---	1.06	Filtered		ES
RD-59C		Primary	02/28/07	Europium-152	2.79 U	---	2.79	Filtered		ES
RD-59C		Primary	02/28/07	Europium-154	3.21 U	---	3.21	Filtered		ES
RD-59C		Primary	02/28/07	Manganese-54	1.01 U	---	1.01	Filtered		ES
RD-59C		Primary	02/28/07	Sodium-22	1.09 U	---	1.09	Filtered		ES
RD-59C		Primary	05/20/08	Cesium-134	1.67 U	---	1.67	Filtered		ES
RD-59C		Primary	05/20/08	Cesium-137	1.36 U	---	1.36	Filtered		ES
RD-59C		Primary	05/20/08	Cobalt-57	0.808 U	---	0.808	Filtered		ES
RD-59C		Primary	05/20/08	Cobalt-60	1.46 U	---	1.46	Filtered		ES
RD-59C		Primary	05/20/08	Europium-152	3.43 U	---	3.43	Filtered		ES
RD-59C		Primary	05/20/08	Europium-154	3.99 U	---	3.99	Filtered		ES
RD-59C		Primary	05/20/08	Manganese-54	1.32 U	---	1.32	Filtered		ES
RD-59C		Primary	05/20/08	Sodium-22	1.36 U	---	1.36	Filtered		ES
RD-61		Primary	05/28/98	Cesium-134	8.17 U	---	8.17	Filtered		TN
RD-61		Primary	05/28/98	Cesium-137	6.76 U	---	6.76	Filtered		TN
RD-61		Primary	05/28/98	Cobalt-57	4.29 U	---	4.29	Filtered		TN
RD-61		Primary	05/28/98	Cobalt-60	7.54 U	---	7.54	Filtered		TN
RD-63		Primary	02/02/99	Cesium-134	8.62 U	---	8.62	Filtered		TN
RD-63		Primary	02/02/99	Cesium-137	6.68 U	---	6.68	Filtered		TN
RD-63		Primary	02/02/99	Cobalt-57	4.11 U	---	4.11	Filtered		TN
RD-63		Primary	02/02/99	Cobalt-60	7.41 U	---	7.41	Filtered		TN
RD-63		Primary	02/16/00	Cesium-134	13.9 U	---	13.9	Filtered		TR
RD-63		Primary	02/16/00	Cesium-137	12.2 U	---	12.2	Filtered		TR
RD-63		Primary	02/16/00	Cobalt-57	5.96 U	---	5.96	Filtered		TR

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-63		Primary	02/16/00	Cobalt-60	11 U	---	11	Filtered		TR
RD-63		Primary	02/23/01	Cesium-134	13.9 U	---	13.9	Filtered		ES
RD-63		Primary	02/23/01	Cesium-137	12.6 U	---	12.6	Filtered		ES
RD-63		Primary	02/23/01	Cobalt-57	9.06 U	---	9.06	Filtered		ES
RD-63		Primary	02/23/01	Cobalt-60	14 U	---	14	Filtered		ES
RD-63		Primary	02/14/02	Cesium-134	3 U	0.11	3	Filtered		DL
RD-63		Primary	02/14/02	Cesium-137	2 U	2	2	Filtered		DL
RD-63		Primary	02/14/02	Cobalt-57	3 U	3	3	Filtered		DL
RD-63		Primary	02/14/02	Cobalt-60	3 U	3	3	Filtered		DL
RD-63		Primary	02/05/03	Cesium-134	2.97 U	---	2.97	Filtered		ES
RD-63		Primary	02/05/03	Cesium-137	2.04 U	---	2.04	Filtered		ES
RD-63		Primary	02/05/03	Cobalt-57	1.3 U	---	1.3	Filtered		ES
RD-63		Primary	02/05/03	Cobalt-60	2.61 U	---	2.61	Filtered		ES
RD-63		Primary	02/24/04	Cesium-134	8.47 U	---	8.47	Filtered		ES
RD-63		Primary	02/24/04	Cesium-137	7.37 U	---	7.37	Filtered		ES
RD-63		Primary	02/24/04	Cobalt-57	5.27 U	---	5.27	Filtered		ES
RD-63		Primary	02/24/04	Cobalt-60	8.16 U	---	8.16	Filtered		ES
RD-63		Primary	08/25/05	Cesium-134	1.78 U	---	1.78	Filtered		ES
RD-63		Primary	08/25/05	Cesium-137	1.3 U	---	1.3	Filtered		ES
RD-63		Primary	08/25/05	Cobalt-57	0.64 U	---	0.64	Filtered		ES
RD-63		Primary	08/25/05	Cobalt-60	1.55 U	---	1.55	Filtered		ES
RD-63		Primary	08/25/05	Europium-152	3.49 U	---	3.49	Filtered		ES
RD-63		Primary	08/25/05	Europium-154	4.51 U	---	4.51	Filtered		ES
RD-63		Primary	08/25/05	Manganese-54	1.48 U	---	1.48	Filtered		ES
RD-63		Primary	08/25/05	Sodium-22	1.56 U	---	1.56	Filtered		ES
RD-63		Primary	02/16/06	Cesium-134	2.7 U	---	2.7	Filtered		ES
RD-63		Primary	02/16/06	Cesium-137	1.46 U	---	1.46	Filtered		ES
RD-63		Primary	02/16/06	Cobalt-57	1.36 U	---	1.36	Filtered		ES
RD-63		Primary	02/16/06	Cobalt-60	1.47 U	---	1.47	Filtered		ES
RD-63		Primary	02/16/06	Europium-152	3.94 U	---	3.94	Filtered		ES
RD-63		Primary	02/16/06	Europium-154	4.53 U	---	4.53	Filtered		ES
RD-63		Primary	02/16/06	Manganese-54	1.56 U	---	1.56	Filtered		ES
RD-63		Primary	02/16/06	Sodium-22	1.56 U	---	1.56	Filtered		ES
RD-63		Primary	05/24/07	Cesium-134	1.09 U	---	1.09	Filtered		ES
RD-63		Split	05/24/07	Cesium-134	0.185 U	0.84	1.46	Filtered		STL
RD-63		Primary	05/24/07	Cesium-137	0.93 U	---	0.93	Filtered		ES
RD-63		Split	05/24/07	Cesium-137	-0.264 U	0.77	1.29	Filtered		STL
RD-63		Primary	05/24/07	Cobalt-57	0.636 U	---	0.636	Filtered		ES
RD-63		Split	05/24/07	Cobalt-57	-2.53 U	3.8	6.08	Filtered		STL
RD-63		Primary	05/24/07	Cobalt-60	0.898 U	---	0.898	Filtered		ES
RD-63		Split	05/24/07	Cobalt-60	0.0408 U	0.79	1.36	Filtered		STL
RD-63		Primary	05/24/07	Europium-152	2.49 U	---	2.49	Filtered		ES
RD-63		Split	05/24/07	Europium-152	0.36 U	2.1	3.51	Filtered		STL
RD-63		Primary	05/24/07	Europium-154	3 U	---	3	Filtered		ES
RD-63		Split	05/24/07	Europium-154	0.412 U	2.4	4.17	Filtered		STL
RD-63		Primary	05/24/07	Manganese-54	0.895 U	---	0.895	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-63		Split	05/24/07	Manganese-54	0.386 U	0.81	1.41	Filtered		STL
RD-63		Primary	05/24/07	Sodium-22	1.02 U	---	1.02	Filtered		ES
RD-63		Split	05/24/07	Sodium-22	0.245 U	0.85	1.49	Filtered		STL
RD-63		Primary	02/06/08	Cesium-134	0.938 U	---	0.938	Filtered		ES
RD-63		Primary	02/06/08	Cesium-137	0.795 U	---	0.795	Filtered		ES
RD-63		Primary	02/06/08	Cobalt-57	0.449 U	---	0.449	Filtered		ES
RD-63		Primary	02/06/08	Cobalt-60	0.723 U	---	0.723	Filtered		ES
RD-63		Primary	02/06/08	Europium-152	2 U	---	2	Filtered		ES
RD-63		Primary	02/06/08	Europium-154	2.36 U	---	2.36	Filtered		ES
RD-63		Primary	02/06/08	Manganese-54	0.732 U	---	0.732	Filtered		ES
RD-63		Primary	02/06/08	Sodium-22	0.804 U	---	0.804	Filtered		ES
RD-64		Primary	05/10/01	Cesium-134	8.14 U	---	8.14	Filtered		ES
RD-64		Primary	05/10/01	Cesium-137	6.02 U	---	6.02	Filtered		ES
RD-64		Primary	05/10/01	Cobalt-57	3.28 U	---	3.28	Filtered		ES
RD-64		Primary	05/10/01	Cobalt-60	7.46 U	---	7.46	Filtered		ES
RD-64		Primary	02/28/02	Cesium-134	3 U	1	3	Filtered		DL
RD-64		Primary	02/28/02	Cesium-137	3 U	1	3	Filtered		DL
RD-64		Primary	02/28/02	Cobalt-57	5 U	3	5	Filtered		DL
RD-64		Primary	02/28/02	Cobalt-60	5 U	3	5	Filtered		DL
RD-64	Z6	Primary	01/29/03	Cesium-134	1.14 U	---	1.14	Filtered		ES
RD-64	Z6	Primary	01/29/03	Cesium-137	0.879 U	---	0.879	Filtered		ES
RD-64	Z6	Primary	01/29/03	Cobalt-57	0.668 U	---	0.668	Filtered		ES
RD-64	Z6	Primary	01/29/03	Cobalt-60	0.834 U	---	0.834	Filtered		ES
RD-64	Z6	Primary	02/14/05	Cesium-134	1.73 U	---	1.73	Filtered		ES
RD-64	Z6	Primary	02/14/05	Cesium-137	1.3 U	---	1.3	Filtered		ES
RD-64	Z6	Primary	02/14/05	Cobalt-57	0.569 U	---	0.569	Filtered		ES
RD-64	Z6	Primary	02/14/05	Cobalt-60	1.55 U	---	1.55	Filtered		ES
RD-64	Z6	Primary	02/14/05	Europium-152	3.42 U	---	3.42	Filtered		ES
RD-64	Z6	Primary	02/14/05	Europium-154	4.24 U	---	4.24	Filtered		ES
RD-64	Z6	Primary	02/14/05	Manganese-54	1.38 U	---	1.38	Filtered		ES
RD-64	Z6	Primary	02/14/05	Sodium-22	1.45 U	---	1.45	Filtered		ES
RD-64	Z6	Primary	02/16/06	Cesium-134	3.79 U	---	3.79	Filtered		ES
RD-64	Z6	Primary	02/16/06	Cesium-137	1.57 U	---	1.57	Filtered		ES
RD-64	Z6	Primary	02/16/06	Cobalt-57	1.5 U	---	1.5	Filtered		ES
RD-64	Z6	Primary	02/16/06	Cobalt-60	1.63 U	---	1.63	Filtered		ES
RD-64	Z6	Primary	02/16/06	Europium-152	4.31 U	---	4.31	Filtered		ES
RD-64	Z6	Primary	02/16/06	Europium-154	4.83 U	---	4.83	Filtered		ES
RD-64	Z6	Primary	02/16/06	Manganese-54	1.68 U	---	1.68	Filtered		ES
RD-64	Z6	Primary	02/16/06	Sodium-22	1.67 U	---	1.67	Filtered		ES
RD-64	Z6	Primary	02/08/07	Cesium-134	1.26 U	---	1.26	Filtered		ES
RD-64	Z6	Primary	02/08/07	Cesium-137	0.984 U	---	0.984	Filtered		ES
RD-64	Z6	Primary	02/08/07	Cobalt-57	0.59 U	---	0.59	Filtered		ES
RD-64	Z6	Primary	02/08/07	Cobalt-60	1 U	---	1	Filtered		ES
RD-64	Z6	Primary	02/08/07	Europium-152	2.67 U	---	2.67	Filtered		ES
RD-64	Z6	Primary	02/08/07	Europium-154	3.04 U	---	3.04	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-64	Z6	Primary	02/08/07	Manganese-54	0.969 U	---	0.969	Filtered		ES
RD-64	Z6	Primary	02/08/07	Sodium-22	1.04 U	---	1.04	Filtered		ES
RD-64	Z7	Primary	02/06/08	Cesium-134	1.29 U	---	1.29	Filtered		ES
RD-64	Z7	Primary	02/06/08	Cesium-137	1.16 U	---	1.16	Filtered		ES
RD-64	Z7	Primary	02/06/08	Cobalt-57	0.886 U	---	0.886	Filtered		ES
RD-64	Z7	Primary	02/06/08	Cobalt-60	1.24 U	---	1.24	Filtered		ES
RD-64	Z7	Primary	02/06/08	Europium-152	3.1 U	---	3.1	Filtered		ES
RD-64	Z7	Primary	02/06/08	Europium-154	3.78 U	---	3.78	Filtered		ES
RD-64	Z7	Primary	02/06/08	Manganese-54	1.2 U	---	1.2	Filtered		ES
RD-64	Z7	Primary	02/06/08	Sodium-22	1.29 U	---	1.29	Filtered		ES
RD-66		Primary	09/30/97	Cesium-134	-2 U	1.4	3.7	Filtered		LAS
RD-66		Primary	09/30/97	Cesium-137	0.1 U	3.3	4.5	Filtered		LAS
RD-66		Primary	09/30/97	Cobalt-57	-0.2 U	2	3.4	Filtered		LAS
RD-66		Primary	09/30/97	Cobalt-60	0.6 U	1.6	4	Filtered		LAS
RD-68A		Primary	07/09/97	Cesium-134	-3.6 U	3.5	7.8	Filtered		LAS
RD-68A		Primary	07/09/97	Cesium-137	-0.8 U	6.6	9.6	Filtered		LAS
RD-68A		Primary	07/09/97	Cobalt-57	-2.9 U	1.6	4.6	Filtered		LAS
RD-68A		Primary	07/09/97	Cobalt-60	1.1 U	4	7.7	Filtered		LAS
RD-68B		Primary	07/10/97	Cesium-134	-2.1 U	3.5	7.7	Filtered		LAS
RD-68B		Primary	07/10/97	Cesium-137	4.5 U	5.3	8	Filtered		LAS
RD-68B		Primary	07/10/97	Cobalt-57	-0.1 U	2.6	4.5	Filtered		LAS
RD-68B		Primary	07/10/97	Cobalt-60	-22 U	3.4	8.5	Filtered		LAS
RD-69		Primary	05/28/98	Cesium-134	8.9 U	---	8.9	Filtered		TN
RD-69		Primary	05/28/98	Cesium-137	5.84 U	---	5.84	Filtered		TN
RD-69		Primary	05/28/98	Cobalt-57	3.94 U	---	3.94	Filtered		TN
RD-69		Primary	05/28/98	Cobalt-60	7.21 U	---	7.21	Filtered		TN
RD-71		Primary	09/30/97	Cesium-134	0.1 U	1.9	4.4	Filtered		LAS
RD-71		Primary	09/30/97	Cesium-137	-0.9 U	1.8	4.8	Filtered		LAS
RD-71		Primary	09/30/97	Cobalt-57	1.5 U	2.3	3.7	Filtered		LAS
RD-71		Primary	09/30/97	Cobalt-60	-0.5 U	1.7	3.9	Filtered		LAS
RD-74		Primary	05/13/99	Cesium-134	18.2 U	---	18.2	Filtered		TN
RD-74		Primary	05/13/99	Cesium-137	13 U	---	13	Filtered		TN
RD-74		Primary	05/13/99	Cobalt-57	5.96 U	---	5.96	Filtered		TN
RD-74		Primary	05/13/99	Cobalt-60	20.8 U	---	20.8	Filtered		TN
RD-75		Primary	08/30/05	Cesium-134	2.63 U	---	2.63	Filtered		ES
RD-75		Primary	08/30/05	Cesium-137	2.1 U	---	2.1	Filtered		ES
RD-75		Primary	08/30/05	Cobalt-57	1.72 U	---	1.72	Filtered		ES
RD-75		Primary	08/30/05	Cobalt-60	2.19 U	---	2.19	Filtered		ES
RD-75		Primary	08/30/05	Europium-152	5.92 U	---	5.92	Filtered		ES
RD-75		Primary	08/30/05	Europium-154	6.41 U	---	6.41	Filtered		ES
RD-75		Primary	08/30/05	Manganese-54	2.31 U	---	2.31	Filtered		ES
RD-75		Primary	08/30/05	Sodium-22	2.22 U	---	2.22	Filtered		ES
RD-85		Primary	08/13/04	Cesium-134	14.8 U	---	14.8	Filtered		ES
RD-85		Primary	08/13/04	Cesium-137	11.2 U	---	11.2	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-85		Primary	08/13/04	Cobalt-57	4.93 U	---	4.93	Filtered		ES
RD-85		Primary	08/13/04	Cobalt-60	14 U	---	14	Filtered		ES
RD-85		Primary	02/23/05	Cesium-134	3.09 U	---	3.09	Filtered		ES
RD-85		Primary	02/23/05	Cesium-137	2.41 U	---	2.41	Filtered		ES
RD-85		Primary	02/23/05	Cobalt-57	1.56 U	---	1.56	Filtered		ES
RD-85		Primary	02/23/05	Cobalt-60	2.48 U	---	2.48	Filtered		ES
RD-85		Primary	02/23/05	Europium-152	6.07 U	---	6.07	Filtered		ES
RD-85		Primary	02/23/05	Europium-154	7.36 U	---	7.36	Filtered		ES
RD-85		Primary	02/23/05	Manganese-54	2.42 U	---	2.42	Filtered		ES
RD-85		Primary	02/23/05	Sodium-22	2.52 U	---	2.52	Filtered		ES
RD-86		Primary	08/13/04	Cesium-134	17.9 U	---	17.9	Filtered		ES
RD-86		Primary	08/13/04	Cesium-137	16 U	---	16	Filtered		ES
RD-86		Primary	08/13/04	Cobalt-57	9.47 U	---	9.47	Filtered		ES
RD-86		Primary	08/13/04	Cobalt-60	16.6 U	---	16.6	Filtered		ES
RD-86		Primary	02/23/05	Cesium-134	2.32 U	---	2.32	Filtered		ES
RD-86		Primary	02/23/05	Cesium-137	2.07 U	---	2.07	Filtered		ES
RD-86		Primary	02/23/05	Cobalt-57	1.37 U	---	1.37	Filtered		ES
RD-86		Primary	02/23/05	Cobalt-60	2.12 U	---	2.12	Filtered		ES
RD-86		Primary	02/23/05	Europium-152	4.88 U	---	4.88	Filtered		ES
RD-86		Primary	02/23/05	Europium-154	6.07 U	---	6.07	Filtered		ES
RD-86		Primary	02/23/05	Manganese-54	1.97 U	---	1.97	Filtered		ES
RD-86		Primary	02/23/05	Sodium-22	2.08 U	---	2.08	Filtered		ES
RD-87		Primary	08/18/04	Cesium-134	17.3 U	---	17.3	Filtered		ES
RD-87		Primary	08/18/04	Cesium-137	13.2 U	---	13.2	Filtered		ES
RD-87		Primary	08/18/04	Cobalt-57	8.63 U	---	8.63	Filtered		ES
RD-87		Primary	08/18/04	Cobalt-60	14.9 U	---	14.9	Filtered		ES
RD-87		Primary	08/24/05	Cesium-134	1.81 U	---	1.81	Filtered		ES
RD-87		Primary	08/24/05	Cesium-137	1.32 U	---	1.32	Filtered		ES
RD-87		Primary	08/24/05	Cobalt-57	0.628 U	---	0.628	Filtered		ES
RD-87		Primary	08/24/05	Cobalt-60	1.46 U	---	1.46	Filtered		ES
RD-87		Primary	08/24/05	Europium-152	3.39 U	---	3.39	Filtered		ES
RD-87		Primary	08/24/05	Europium-154	4.39 U	---	4.39	Filtered		ES
RD-87		Primary	08/24/05	Manganese-54	1.44 U	---	1.44	Filtered		ES
RD-87		Primary	08/24/05	Sodium-22	1.51 U	---	1.51	Filtered		ES
RD-88		Primary	08/20/04	Cesium-134	15.4 U	---	15.4	Filtered		ES
RD-88		Primary	08/20/04	Cesium-137	11.8 U	---	11.8	Filtered		ES
RD-88		Primary	08/20/04	Cobalt-57	4.94 U	---	4.94	Filtered		ES
RD-88		Primary	08/20/04	Cobalt-60	14.6 U	---	14.6	Filtered		ES
RD-88		Primary	08/25/05	Cesium-134	2.06 U	---	2.06	Filtered		ES
RD-88		Primary	08/25/05	Cesium-137	1.78 U	---	1.78	Filtered		ES
RD-88		Primary	08/25/05	Cobalt-57	1.07 U	---	1.07	Filtered		ES
RD-88		Primary	08/25/05	Cobalt-60	1.78 U	---	1.78	Filtered		ES
RD-88		Primary	08/25/05	Europium-152	4.08 U	---	4.08	Filtered		ES
RD-88		Primary	08/25/05	Europium-154	4.81 U	---	4.81	Filtered		ES
RD-88		Primary	08/25/05	Manganese-54	1.77 U	---	1.77	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-88		Primary	08/25/05	Sodium-22	1.66 U	---	1.66	Filtered		ES
RD-89		Primary	05/24/05	Cesium-134	2.12 U	---	2.12	Filtered		ES
RD-89		Primary	05/24/05	Cesium-137	1.99 U	---	1.99	Filtered		ES
RD-89		Primary	05/24/05	Cobalt-57	1.28 U	---	1.28	Filtered		ES
RD-89		Primary	05/24/05	Cobalt-60	2.02 U	---	2.02	Filtered		ES
RD-89		Primary	05/24/05	Europium-152	4.66 U	---	4.66	Filtered		ES
RD-89		Primary	05/24/05	Europium-154	6.05 U	---	6.05	Filtered		ES
RD-89		Primary	05/24/05	Manganese-54	1.86 U	---	1.86	Filtered		ES
RD-89		Primary	05/24/05	Sodium-22	2.06 U	---	2.06	Filtered		ES
RD-89		Duplicate	05/24/05	Cesium-134	2.31 U	---	2.31	Filtered		ES
RD-89		Duplicate	05/24/05	Cesium-137	1.85 U	---	1.85	Filtered		ES
RD-89		Duplicate	05/24/05	Cobalt-57	0.829 U	---	0.829	Filtered		ES
RD-89		Duplicate	05/24/05	Cobalt-60	2.2 U	---	2.2	Filtered		ES
RD-89		Duplicate	05/24/05	Europium-152	5.02 U	---	5.02	Filtered		ES
RD-89		Duplicate	05/24/05	Europium-154	6.09 U	---	6.09	Filtered		ES
RD-89		Duplicate	05/24/05	Manganese-54	1.97 U	---	1.97	Filtered		ES
RD-89		Duplicate	05/24/05	Sodium-22	2.07 U	---	2.07	Filtered		ES
RD-89		Primary	06/01/05	Cesium-134	1.74 U	---	1.74	Filtered		ES
RD-89		Primary	06/01/05	Cesium-137	1.47 U	---	1.47	Filtered		ES
RD-89		Primary	06/01/05	Cobalt-57	0.861 U	---	0.861	Filtered		ES
RD-89		Primary	06/01/05	Cobalt-60	1.62 U	---	1.62	Filtered		ES
RD-89		Primary	06/01/05	Europium-152	4.1 U	---	4.1	Filtered		ES
RD-89		Primary	06/01/05	Europium-154	4.32 U	---	4.32	Filtered		ES
RD-89		Primary	06/01/05	Manganese-54	1.5 U	---	1.5	Filtered		ES
RD-89		Primary	06/01/05	Sodium-22	1.46 U	---	1.46	Filtered		ES
RD-90		Primary	03/25/04	Cesium-134	12.4 U	---	12.4	Filtered		ES
RD-90		Primary	03/25/04	Cesium-137	10.2 U	---	10.2	Filtered		ES
RD-90		Primary	03/25/04	Cobalt-57	6.68 U	---	6.68	Filtered		ES
RD-90		Primary	03/25/04	Cobalt-60	12.3 U	---	12.3	Filtered		ES
RD-90		Primary	04/15/04	Cesium-134	12.7 U	---	12.7	Filtered		ES
RD-90		Primary	04/15/04	Cesium-137	11 U	---	11	Filtered		ES
RD-90		Primary	04/15/04	Cobalt-57	7.66 U	---	7.66	Filtered		ES
RD-90		Primary	04/15/04	Cobalt-60	12.2 U	---	12.2	Filtered		ES
RD-90		Primary	08/25/05	Cesium-134	1.05 U	---	1.05	Filtered		ES
RD-90		Primary	08/25/05	Cesium-137	0.892 U	---	0.892	Filtered		ES
RD-90		Primary	08/25/05	Cobalt-57	0.727 U	---	0.727	Filtered		ES
RD-90		Primary	08/25/05	Cobalt-60	0.895 U	---	0.895	Filtered		ES
RD-90		Primary	08/25/05	Europium-152	2.74 U	---	2.74	Filtered		ES
RD-90		Primary	08/25/05	Europium-154	2.39 U	---	2.39	Filtered		ES
RD-90		Primary	08/25/05	Manganese-54	0.897 U	---	0.897	Filtered		ES
RD-90		Primary	08/25/05	Sodium-22	0.826 U	---	0.826	Filtered		ES
RD-91		Primary	03/25/04	Cesium-134	6.05 U	---	6.05	Filtered		ES
RD-91		Primary	03/25/04	Cesium-137	4.67 U	---	4.67	Filtered		ES
RD-91		Primary	03/25/04	Cobalt-57	2.9 U	---	2.9	Filtered		ES
RD-91		Primary	03/25/04	Cobalt-60	5.29 U	---	5.29	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-91		Primary	04/15/04	Cesium-134	10.9 U	---	10.9	Filtered		ES
RD-91		Primary	04/15/04	Cesium-137	9.36 U	---	9.36	Filtered		ES
RD-91		Primary	04/15/04	Cobalt-57	5.3 U	---	5.3	Filtered		ES
RD-91		Primary	04/15/04	Cobalt-60	9.6 U	---	9.6	Filtered		ES
RD-92		Primary	03/25/04	Cesium-134	53.1 U	---	53.1	Filtered		ES
RD-92		Primary	03/25/04	Cesium-137	49.7 U	---	49.7	Filtered		ES
RD-92		Primary	03/25/04	Cobalt-57	29.4 U	---	29.4	Filtered		ES
RD-92		Primary	03/25/04	Cobalt-60	54.4 U	---	54.4	Filtered		ES
RD-92		Primary	04/15/04	Cesium-134	10.9 U	---	10.9	Filtered		ES
RD-92		Primary	04/15/04	Cesium-137	10.9 U	---	10.9	Filtered		ES
RD-92		Primary	04/15/04	Cobalt-57	6.16 U	---	6.16	Filtered		ES
RD-92		Primary	04/15/04	Cobalt-60	10.5 U	---	10.5	Filtered		ES
RD-93		Primary	05/23/05	Cesium-134	1.85 U	---	1.85	Filtered		ES
RD-93		Primary	05/23/05	Cesium-137	1.49 U	---	1.49	Filtered		ES
RD-93		Primary	05/23/05	Cobalt-57	1.08 U	---	1.08	Filtered		ES
RD-93		Primary	05/23/05	Cobalt-60	1.29 U	---	1.29	Filtered		ES
RD-93		Primary	05/23/05	Europium-152	4.34 U	---	4.34	Filtered		ES
RD-93		Primary	05/23/05	Europium-154	4.19 U	---	4.19	Filtered		ES
RD-93		Primary	05/23/05	Manganese-54	1.35 U	---	1.35	Filtered		ES
RD-93		Primary	05/23/05	Sodium-22	1.42 U	---	1.42	Filtered		ES
RD-93		Duplicate	05/23/05	Cesium-134	1.96 U	---	1.96	Filtered		ES
RD-93		Duplicate	05/23/05	Cesium-137	1.86 U	---	1.86	Filtered		ES
RD-93		Duplicate	05/23/05	Cobalt-57	1.25 U	---	1.25	Filtered		ES
RD-93		Duplicate	05/23/05	Cobalt-60	1.86 U	---	1.86	Filtered		ES
RD-93		Duplicate	05/23/05	Europium-152	4.59 U	---	4.59	Filtered		ES
RD-93		Duplicate	05/23/05	Europium-154	5.96 U	---	5.96	Filtered		ES
RD-93		Duplicate	05/23/05	Manganese-54	1.78 U	---	1.78	Filtered		ES
RD-93		Duplicate	05/23/05	Sodium-22	2.02 U	---	2.02	Filtered		ES
RD-93		Primary	06/01/05	Cesium-134	1.36 U	---	1.36	Filtered		ES
RD-93		Primary	06/01/05	Cesium-137	1.24 U	---	1.24	Filtered		ES
RD-93		Primary	06/01/05	Cobalt-57	0.799 U	---	0.799	Filtered		ES
RD-93		Primary	06/01/05	Cobalt-60	1.35 U	---	1.35	Filtered		ES
RD-93		Primary	06/01/05	Europium-152	3.01 U	---	3.01	Filtered		ES
RD-93		Primary	06/01/05	Europium-154	3.86 U	---	3.86	Filtered		ES
RD-93		Primary	06/01/05	Manganese-54	1.15 U	---	1.15	Filtered		ES
RD-93		Primary	06/01/05	Sodium-22	1.31 U	---	1.31	Filtered		ES
RD-93		Primary	08/24/05	Cesium-134	1.19 U	---	1.19	Filtered		ES
RD-93		Primary	08/24/05	Cesium-137	0.92 U	---	0.92	Filtered		ES
RD-93		Primary	08/24/05	Cobalt-57	0.751 U	---	0.751	Filtered		ES
RD-93		Primary	08/24/05	Cobalt-60	0.942 U	---	0.942	Filtered		ES
RD-93		Primary	08/24/05	Europium-152	2.91 U	---	2.91	Filtered		ES
RD-93		Primary	08/24/05	Europium-154	2.5 U	---	2.5	Filtered		ES
RD-93		Primary	08/24/05	Manganese-54	0.962 U	---	0.962	Filtered		ES
RD-93		Primary	08/24/05	Sodium-22	0.865 U	---	0.865	Filtered		ES
RD-94		Primary	05/23/05	Cesium-134	2.73 U	---	2.73	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-94		Primary	05/23/05	Cesium-137	2.08 U	---	2.08	Filtered		ES
RD-94		Primary	05/23/05	Cobalt-57	0.916 U	---	0.916	Filtered		ES
RD-94		Primary	05/23/05	Cobalt-60	2.35 U	---	2.35	Filtered		ES
RD-94		Primary	05/23/05	Europium-152	5.5 U	---	5.5	Filtered		ES
RD-94		Primary	05/23/05	Europium-154	6.78 U	---	6.78	Filtered		ES
RD-94		Primary	05/23/05	Manganese-54	2.18 U	---	2.18	Filtered		ES
RD-94		Primary	05/23/05	Sodium-22	2.3 U	---	2.3	Filtered		ES
RD-94		Primary	06/01/05	Cesium-134	1.62 U	---	1.62	Filtered		ES
RD-94		Primary	06/01/05	Cesium-137	1.3 U	---	1.3	Filtered		ES
RD-94		Primary	06/01/05	Cobalt-57	0.551 U	---	0.551	Filtered		ES
RD-94		Primary	06/01/05	Cobalt-60	1.47 U	---	1.47	Filtered		ES
RD-94		Primary	06/01/05	Europium-152	3.46 U	---	3.46	Filtered		ES
RD-94		Primary	06/01/05	Europium-154	4.38 U	---	4.38	Filtered		ES
RD-94		Primary	06/01/05	Manganese-54	1.33 U	---	1.33	Filtered		ES
RD-94		Primary	06/01/05	Sodium-22	1.49 U	---	1.49	Filtered		ES
RD-94		Primary	08/25/05	Cesium-134	1.49 U	---	1.49	Filtered		ES
RD-94		Primary	08/25/05	Cesium-137	1.17 U	---	1.17	Filtered		ES
RD-94		Primary	08/25/05	Cobalt-57	1.03 U	---	1.03	Filtered		ES
RD-94		Primary	08/25/05	Cobalt-60	1.36 U	---	1.36	Filtered		ES
RD-94		Primary	08/25/05	Europium-152	3.45 U	---	3.45	Filtered		ES
RD-94		Primary	08/25/05	Europium-154	3.82 U	---	3.82	Filtered		ES
RD-94		Primary	08/25/05	Manganese-54	1.25 U	---	1.25	Filtered		ES
RD-94		Primary	08/25/05	Sodium-22	1.32 U	---	1.32	Filtered		ES
RD-95		Primary	05/23/05	Cesium-134	2.97 U	---	2.97	Filtered		ES
RD-95		Primary	05/23/05	Cesium-137	2.39 U	---	2.39	Filtered		ES
RD-95		Primary	05/23/05	Cobalt-57	1.53 U	---	1.53	Filtered		ES
RD-95		Primary	05/23/05	Cobalt-60	2.69 U	---	2.69	Filtered		ES
RD-95		Primary	05/23/05	Europium-152	6.62 U	---	6.62	Filtered		ES
RD-95		Primary	05/23/05	Europium-154	7.48 U	---	7.48	Filtered		ES
RD-95		Primary	05/23/05	Manganese-54	2.48 U	---	2.48	Filtered		ES
RD-95		Primary	05/23/05	Sodium-22	2.54 U	---	2.54	Filtered		ES
RD-95		Primary	06/01/05	Cesium-134	1.63 U	---	1.63	Filtered		ES
RD-95		Primary	06/01/05	Cesium-137	1.58 U	---	1.58	Filtered		ES
RD-95		Primary	06/01/05	Cobalt-57	0.897 U	---	0.897	Filtered		ES
RD-95		Primary	06/01/05	Cobalt-60	1.42 U	---	1.42	Filtered		ES
RD-95		Primary	06/01/05	Europium-152	3.83 U	---	3.83	Filtered		ES
RD-95		Primary	06/01/05	Europium-154	4.31 U	---	4.31	Filtered		ES
RD-95		Primary	06/01/05	Manganese-54	1.36 U	---	1.36	Filtered		ES
RD-95		Primary	06/01/05	Sodium-22	1.46 U	---	1.46	Filtered		ES
RD-95		Primary	08/24/05	Cesium-134	1.63 U	---	1.63	Filtered		ES
RD-95		Primary	08/24/05	Cesium-137	1.27 U	---	1.27	Filtered		ES
RD-95		Primary	08/24/05	Cobalt-57	1.1 U	---	1.1	Filtered		ES
RD-95		Primary	08/24/05	Cobalt-60	1.49 U	---	1.49	Filtered		ES
RD-95		Primary	08/24/05	Europium-152	3.49 U	---	3.49	Filtered		ES
RD-95		Primary	08/24/05	Europium-154	3.96 U	---	3.96	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-95		Primary	08/24/05	Manganese-54	1.38 U	---	1.38	Filtered		ES
RD-95		Primary	08/24/05	Sodium-22	1.37 U	---	1.37	Filtered		ES
RD-96		Primary	05/09/06	Cesium-134	1.48 U	---	1.48	Unfiltered		ES
RD-96		Primary	05/09/06	Cesium-137	1.3 U	---	1.3	Unfiltered		ES
RD-96		Primary	05/09/06	Cobalt-57	0.67 U	---	0.67	Unfiltered		ES
RD-96		Primary	05/09/06	Cobalt-60	1.47 U	---	1.47	Unfiltered		ES
RD-96		Primary	05/09/06	Europium-152	3.03 U	---	3.03	Unfiltered		ES
RD-96		Primary	05/09/06	Europium-154	3.51 U	---	3.51	Unfiltered		ES
RD-96		Primary	05/09/06	Manganese-54	1.16 U	---	1.16	Unfiltered		ES
RD-96		Primary	05/09/06	Sodium-22	1.18 U	---	1.18	Unfiltered		ES
RD-96		Primary	05/09/06	Cesium-134	2.03 U	---	2.03	Filtered		ES
RD-96		Primary	05/09/06	Cesium-137	1.81 U	---	1.81	Filtered		ES
RD-96		Primary	05/09/06	Cobalt-57	1.39 U	---	1.39	Filtered		ES
RD-96		Primary	05/09/06	Cobalt-60	1.84 U	---	1.84	Filtered		ES
RD-96		Primary	05/09/06	Europium-152	5 U	---	5	Filtered		ES
RD-96		Primary	05/09/06	Europium-154	5.43 U	---	5.43	Filtered		ES
RD-96		Primary	05/09/06	Manganese-54	1.66 U	---	1.66	Filtered		ES
RD-96		Primary	05/09/06	Sodium-22	1.83 U	---	1.83	Filtered		ES
RD-97		Primary	05/09/06	Cesium-134	1.26 U	---	1.26	Unfiltered		ES
RD-97		Primary	05/09/06	Cesium-137	1.08 U	---	1.08	Unfiltered		ES
RD-97		Primary	05/09/06	Cobalt-57	0.706 U	---	0.706	Unfiltered		ES
RD-97		Primary	05/09/06	Cobalt-60	1.12 U	---	1.12	Unfiltered		ES
RD-97		Primary	05/09/06	Europium-152	2.57 U	---	2.57	Unfiltered		ES
RD-97		Primary	05/09/06	Europium-154	2.87 U	---	2.87	Unfiltered		ES
RD-97		Primary	05/09/06	Manganese-54	1.03 U	---	1.03	Unfiltered		ES
RD-97		Primary	05/09/06	Sodium-22	0.969 U	---	0.969	Unfiltered		ES
RD-97		Primary	05/09/06	Cesium-134	2.07 U	---	2.07	Filtered		ES
RD-97		Primary	05/09/06	Cesium-137	1.14 U	---	1.14	Filtered		ES
RD-97		Primary	05/09/06	Cobalt-57	0.725 U	---	0.725	Filtered		ES
RD-97		Primary	05/09/06	Cobalt-60	1.22 U	---	1.22	Filtered		ES
RD-97		Primary	05/09/06	Europium-152	2.68 U	---	2.68	Filtered		ES
RD-97		Primary	05/09/06	Europium-154	2.94 U	---	2.94	Filtered		ES
RD-97		Primary	05/09/06	Manganese-54	0.922 U	---	0.922	Filtered		ES
RD-97		Primary	05/09/06	Sodium-22	0.991 U	---	0.991	Filtered		ES
RD-98		Primary	06/26/08	Beryllium-7	9.34 U	---	9.34	Filtered		ES
RD-98		Primary	06/26/08	Cerium-139	0.821 U	---	0.821	Filtered		ES
RD-98		Primary	06/26/08	Cerium-144	5.78 U	---	5.78	Filtered		ES
RD-98		Primary	06/26/08	Cesium-134	1.25 U	---	1.25	Filtered		ES
RD-98		Primary	06/26/08	Cesium-137	1.09 U	---	1.09	Filtered		ES
RD-98		Primary	06/26/08	Chromium-51	11.1 U	---	11.1	Filtered		ES
RD-98		Primary	06/26/08	Cobalt-56	1.11 U	---	1.11	Filtered		ES
RD-98		Primary	06/26/08	Cobalt-57	0.667 U	---	0.667	Filtered		ES
RD-98		Primary	06/26/08	Cobalt-58	0.985 U	---	0.985	Filtered		ES
RD-98		Primary	06/26/08	Cobalt-60	1.02 U	---	1.02	Filtered		ES
RD-98		Primary	06/26/08	Europium-152	2.9 U	---	2.9	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-98		Primary	06/26/08	Europium-154	3.14 U	---	3.14	Filtered		ES
RD-98		Primary	06/26/08	Manganese-54	0.977 U	---	0.977	Filtered		ES
RD-98		Primary	06/26/08	Silver-110m	1.28 U	---	1.28	Filtered		ES
RD-98		Primary	06/26/08	Sodium-22	1.06 U	---	1.06	Filtered		ES
RD-98		Primary	09/11/08	Beryllium-7	6.63 U	---	6.63	Filtered		ES
RD-98		Primary	09/11/08	Cerium-139	0.473 U	---	0.473	Filtered		ES
RD-98		Primary	09/11/08	Cerium-144	3.17 U	---	3.17	Filtered		ES
RD-98		Primary	09/11/08	Cesium-134	1.12 U	---	1.12	Filtered		ES
RD-98		Primary	09/11/08	Cesium-137	0.808 U	---	0.808	Filtered		ES
RD-98		Primary	09/11/08	Chromium-51	7.33 U	---	7.33	Filtered		ES
RD-98		Primary	09/11/08	Cobalt-56	0.878 U	---	0.878	Filtered		ES
RD-98		Primary	09/11/08	Cobalt-57	0.385 U	---	0.385	Filtered		ES
RD-98		Primary	09/11/08	Cobalt-58	0.899 U	---	0.899	Filtered		ES
RD-98		Primary	09/11/08	Cobalt-60	0.865 U	---	0.865	Filtered		ES
RD-98		Primary	09/11/08	Europium-152	2.14 U	---	2.14	Filtered		ES
RD-98		Primary	09/11/08	Europium-154	2.6 U	---	2.6	Filtered		ES
RD-98		Primary	09/11/08	Manganese-54	0.734 U	---	0.734	Filtered		ES
RD-98		Primary	09/11/08	Silver-110m	1.11 U	---	1.11	Filtered		ES
RD-98		Primary	09/11/08	Sodium-22	0.846 U	---	0.846	Filtered		ES
RD-98		Primary	11/14/08	Antimony-125	1.86 U	---	1.86	Filtered		ES
RD-98		Primary	11/14/08	Antimony-125	3.03 U	---	3.03	Unfiltered		ES
RD-98		Primary	11/14/08	Barium-133	0.875 U	---	0.875	Filtered		ES
RD-98		Primary	11/14/08	Barium-133	1.21 U	---	1.21	Unfiltered		ES
RD-98		Primary	11/14/08	Cesium-134	0.815 U	---	0.815	Filtered		ES
RD-98		Primary	11/14/08	Cesium-134	1.41 U	---	1.41	Unfiltered		ES
RD-98		Primary	11/14/08	Cesium-137	0.705 U	---	0.705	Filtered		ES
RD-98		Primary	11/14/08	Cesium-137	1.16 U	---	1.16	Unfiltered		ES
RD-98		Primary	11/14/08	Cobalt-60	0.667 U	---	0.667	Filtered		ES
RD-98		Primary	11/14/08	Cobalt-60	1.17 U	---	1.17	Unfiltered		ES
RD-98		Primary	11/14/08	Europium-152	2.02 U	---	2.02	Filtered		ES
RD-98		Primary	11/14/08	Europium-152	3.52 U	---	3.52	Unfiltered		ES
RD-98		Primary	11/14/08	Europium-154	1.76 U	---	1.76	Filtered		ES
RD-98		Primary	11/14/08	Europium-154	3.67 U	---	3.67	Unfiltered		ES
RD-98		Primary	11/14/08	Europium-155	2.35 U	---	2.35	Filtered		ES
RD-98		Primary	11/14/08	Europium-155	3.54 U	---	3.54	Unfiltered		ES
RD-98		Primary	11/14/08	Manganese-54	0.621 U	---	0.621	Filtered		ES
RD-98		Primary	11/14/08	Manganese-54	1.2 U	---	1.2	Unfiltered		ES
RD-98		Primary	11/14/08	Sodium-22	0.597 U	---	0.597	Filtered		ES
RD-98		Primary	11/14/08	Sodium-22	1.25 U	---	1.25	Unfiltered		ES
WS-04A		Primary	12/05/90	Cesium-137	-1.82 U	4.56	10	Filtered		IT
WS-07		Primary	12/06/90	Cesium-137	-1.84 U	6.36	10	Filtered		IT
WS-07		Duplicate	12/06/90	Cesium-137	2.21 U	5.27	10	Filtered		IT
WS-07		Primary	03/08/91	Cesium-137	-2.9 U	4.3	10	Filtered		IT
WS-07		Primary	12/07/91	Cesium-137	1.9 U	4.94	10	Filtered		IT
WS-07		Split	12/07/91	Cesium-137	10 U	---	10	Filtered		CEP

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
WS-07		Primary	03/25/92	Cesium-137	0 U	---	---	Filtered		CEP
WS-13		Primary	10/17/89	Cesium-137	2.65 U	3.78	---	Filtered		UST
WS-13		Duplicate	10/17/89	Cesium-137	1.44 U	5	---	Filtered		UST
WS-13		Primary	11/01/89	Cesium-137	2.59 U	5.42	---	Filtered		UST
WS-13		Primary	11/01/89	Cesium-137	1.57 U	4.11	---	Unfiltered		UST
Private Off-site Wells										
OS-01		Primary	12/11/90	Cesium-137	5.12 U	4.28	10	Filtered		IT
OS-01		Primary	03/09/91	Cesium-137	-0.802 U	5.2	10	Filtered		IT
OS-01		Primary	12/09/91	Cesium-137	-0.303 U	4.99	10	Filtered		IT
OS-01		Primary	06/09/92	Cesium-137	0 U	---	---	Filtered		CEP
OS-01		Primary	09/15/92	Cesium-137	0 U	---	---	Filtered		CEP
OS-01		Primary	12/17/92	Cesium-137	0 U	---	---	Filtered		CEP
OS-01		Primary	08/23/93	Cesium-137	0 U	---	---	Filtered		CEP
OS-01		Primary	02/23/94	Cesium-137	2.4 U	---	6.8	Filtered		LAS
OS-01		Primary	02/23/94	Cobalt-57	0 U	---	3.6	Filtered		LAS
OS-01		Primary	02/23/94	Cobalt-60	2.7 U	---	5.6	Filtered		LAS
OS-01		Primary	08/15/94	Cesium-134	-8 U	---	42	Filtered		LAS
OS-01		Primary	08/15/94	Cesium-137	13 U	---	46	Filtered		LAS
OS-01		Primary	08/15/94	Cobalt-57	-6 U	---	22	Filtered		LAS
OS-01		Primary	08/15/94	Cobalt-60	5 U	---	45	Filtered		LAS
OS-02		Primary	12/11/90	Cesium-137	-3.2 U	5.17	10	Filtered		IT
OS-02		Primary	03/08/91	Cesium-137	0.755 U	3.7	10	Filtered		IT
OS-02		Duplicate	03/08/91	Cesium-137	-1.27 U	4.91	10	Filtered		IT
OS-02		Primary	12/09/91	Cesium-137	-1.5 U	4.7	10	Filtered		IT
OS-02		Primary	06/09/92	Cesium-137	0 U	---	---	Filtered		CEP
OS-02		Primary	09/15/92	Cesium-137	0 U	---	---	Filtered		CEP
OS-02		Primary	12/17/92	Cesium-137	0 U	---	---	Filtered		CEP
OS-02		Primary	08/23/93	Cesium-137	0 U	---	---	Filtered		CEP
OS-02		Primary	02/23/94	Cesium-137	-1.5 U	---	7.2	Filtered		LAS
OS-02		Primary	02/23/94	Cobalt-57	-0.8 U	---	3.8	Filtered		LAS
OS-02		Primary	02/23/94	Cobalt-60	-2.27 U	---	6.6	Filtered		LAS
OS-02		Primary	08/15/94	Cesium-134	5 U	---	24	Filtered		LAS
OS-02		Primary	08/15/94	Cesium-137	-7 U	---	29	Filtered		LAS
OS-02		Primary	08/15/94	Cobalt-57	-3.1 U	---	18	Filtered		LAS
OS-02		Primary	08/15/94	Cobalt-60	0 U	---	29	Filtered		LAS
OS-03		Primary	12/11/90	Cesium-137	-0.932 U	4.54	10	Filtered		IT
OS-03		Primary	03/08/91	Cesium-137	-0.957 U	4.63	10	Filtered		IT
OS-03		Primary	12/09/91	Cesium-137	0.463 U	5.54	10	Filtered		IT
OS-03		Primary	06/09/92	Cesium-137	0 U	---	---	Filtered		CEP
OS-03		Primary	08/23/93	Cesium-137	0 U	---	---	Filtered		CEP
OS-03		Primary	02/23/94	Cesium-137	-2.3 U	---	7.1	Filtered		LAS
OS-03		Primary	02/23/94	Cobalt-57	-0.4 U	---	4	Filtered		LAS
OS-03		Primary	02/23/94	Cobalt-60	-0.4 U	---	5.6	Filtered		LAS
OS-03		Primary	08/15/94	Cesium-134	-1 U	---	24	Filtered		LAS
OS-03		Primary	08/15/94	Cesium-137	0 U	---	29	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Private Off-site Wells										
OS-03		Primary	08/15/94	Cobalt-57	11 U	---	18	Filtered		LAS
OS-03		Primary	08/15/94	Cobalt-60	-1 U	---	26	Filtered		LAS
OS-04		Primary	12/11/90	Cesium-137	1.41 U	4.76	10	Filtered		IT
OS-04		Primary	06/09/92	Cesium-137	0 U	---	---	Filtered		CEP
OS-04		Primary	06/22/93	Cesium-137	0 U	---	---	Filtered		CEP
OS-04		Primary	08/23/93	Cesium-137	0 U	---	---	Filtered		CEP
OS-04		Primary	02/23/94	Cesium-137	3.3 U	---	6.2	Filtered		LAS
OS-04		Primary	02/23/94	Cobalt-57	0 U	---	3.9	Filtered		LAS
OS-04		Primary	02/23/94	Cobalt-60	-1.97 U	---	7	Filtered		LAS
OS-04		Primary	08/15/94	Cesium-134	-4 U	---	43	Filtered		LAS
OS-04		Primary	08/15/94	Cesium-137	11 U	---	47	Filtered		LAS
OS-04		Primary	08/15/94	Cobalt-57	-1 U	---	23	Filtered		LAS
OS-04		Primary	08/15/94	Cobalt-60	26 U	---	48	Filtered		LAS
OS-05		Primary	12/11/90	Cesium-137	-0.136 U	4.91	10	Filtered		IT
OS-05		Primary	03/08/91	Cesium-137	0.885 U	5.12	10	Filtered		IT
OS-05		Primary	12/09/91	Cesium-137	3.81 U	3.16	10	Filtered		IT
OS-05		Primary	06/09/92	Cesium-137	0 U	---	---	Filtered		CEP
OS-05		Split	09/15/92	Cesium-134	32 U	---	32	Filtered		BL
OS-05		Primary	09/15/92	Cesium-137	0 U	---	---	Filtered		CEP
OS-05		Split	09/15/92	Cesium-137	32 U	---	32	Filtered		BL
OS-05		Split	09/15/92	Cobalt-57	32 U	---	32	Filtered		BL
OS-05		Split	09/15/92	Cobalt-60	32 U	---	32	Filtered		BL
OS-05		Primary	12/17/92	Cesium-137	0 U	---	---	Filtered		CEP
OS-05		Primary	08/23/93	Cesium-137	0 U	---	---	Filtered		CEP
OS-05		Primary	02/23/94	Cesium-137	-2.6 U	---	7.6	Filtered		LAS
OS-05		Primary	02/23/94	Cobalt-57	0.3 U	---	4.2	Filtered		LAS
OS-05		Primary	02/23/94	Cobalt-60	1.6 U	---	5.9	Filtered		LAS
OS-08		Primary	06/09/92	Cesium-137	0 U	---	---	Filtered		CEP
OS-08		Primary	08/15/94	Cesium-134	-1 U	---	24	Filtered		LAS
OS-08		Primary	08/15/94	Cesium-137	-6 U	---	29	Filtered		LAS
OS-08		Primary	08/15/94	Cobalt-57	5 U	---	18	Filtered		LAS
OS-08		Primary	08/15/94	Cobalt-60	4 U	---	28	Filtered		LAS
OS-09R		Primary	01/26/04	Cesium-134	9.02 U	---	9.02	Filtered		ES
OS-09R		Primary	01/26/04	Cesium-137	7.24 U	---	7.24	Filtered		ES
OS-09R		Primary	01/26/04	Cobalt-57	4.2 U	---	4.2	Filtered		ES
OS-09R		Primary	01/26/04	Cobalt-60	7.03 U	---	7.03	Filtered		ES
OS-10		Primary	12/09/91	Cesium-137	-0.252 U	5.38	10	Filtered		IT
OS-10		Primary	08/05/94	Cesium-134	14 U	---	36	Filtered		LAS
OS-10		Primary	08/05/94	Cesium-137	16 U	---	48	Filtered		LAS
OS-10		Primary	08/05/94	Cobalt-57	-2.1 U	---	22	Filtered		LAS
OS-10		Primary	08/05/94	Cobalt-60	8 U	---	40	Filtered		LAS
OS-15		Primary	12/10/91	Cesium-137	0.893 U	4.6	10	Filtered		IT
OS-16		Primary	11/01/89	Cesium-137	-1.12 U	4.77	---	Filtered		UST
OS-16		Primary	11/01/89	Cesium-137	-3.32 U	5.87	---	Unfiltered		UST

See last page of table for notes and abbreviations.

TABLE E-III

RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Private Off-site Wells										
OS-16		Duplicate	11/01/89	Cesium-137	0.386 U	4.63	---	Filtered		UST
OS-16		Duplicate	11/01/89	Cesium-137	3.07 U	4.38	---	Unfiltered		UST
OS-16		Primary	12/10/91	Cesium-137	-3.41 U	4.48	10	Filtered		IT
OS-16		Primary	03/12/92	Cesium-137	0 U	---	---	Filtered		CEP
OS-17		Primary	12/09/91	Cesium-137	-6.39 U	5.37	10	Filtered		IT
OS-17		Primary	03/12/92	Cesium-137	0 U	---	---	Filtered		CEP
OS-21		Primary	11/01/89	Cesium-137	1.65 U	4.55	---	Filtered		UST
OS-21		Primary	11/01/89	Cesium-137	1.84 U	3.97	---	Unfiltered		UST
OS-21		Primary	03/09/91	Cesium-137	1.33 U	4.95	10	Filtered		IT
OS-21		Primary	12/10/91	Cesium-137	-0.834 U	4.06	10	Filtered		IT
OS-21		Primary	03/12/92	Cesium-137	0 U	---	---	Filtered		CEP
OS-21		Primary	03/19/93	Cesium-137	0 U	---	---	Filtered		CEP
OS-27		Primary	05/15/97	Cesium-134	0 U	2.1	4.3	Filtered		LAS
OS-27		Primary	05/15/97	Cesium-137	-1.3 U	3.1	5.6	Filtered		LAS
OS-27		Primary	05/15/97	Cobalt-57	-2.2 U	2.1	4.8	Filtered		LAS
OS-27		Primary	05/15/97	Cobalt-60	-1.1 U	1.6	5.3	Filtered		LAS
Municipal Water Supply										
Calleguas		Primary	12/14/90	Cesium-137	-1.13 U	5.35	10	Filtered		IT
Calleguas		Primary	03/10/91	Cesium-137	2.15 U	4.74	10	Filtered		IT
Calleguas		Primary	03/12/92	Cesium-137	0 U	---	---	Filtered		CEP
Facility Water		Primary	08/10/04	Cesium-134	8.06 U	---	8.06	Unfiltered		ES
Facility Water		Primary	08/10/04	Cesium-137	7.14 U	---	7.14	Unfiltered		ES
Facility Water		Primary	08/10/04	Cobalt-57	3.69 U	---	3.69	Unfiltered		ES
Facility Water		Primary	08/10/04	Cobalt-60	7.29 U	---	7.29	Unfiltered		ES
Facility Fire Hydrant										
Hydrant Water		Primary	03/16/04	Cesium-134	9.49 U	---	9.49	Unfiltered		ES
Hydrant Water		Primary	03/16/04	Cesium-137	8.23 U	---	8.23	Unfiltered		ES
Hydrant Water		Primary	03/16/04	Cobalt-57	5.92 U	---	5.92	Unfiltered		ES
Hydrant Water		Primary	03/16/04	Cobalt-60	9.26 U	---	9.26	Unfiltered		ES

See last page of table for notes and abbreviations.

TABLE E-III
RESULTS OF ANALYSES FOR MAN-MADE, BETA/GAMMA-EMITTING
RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

NOTES AND ABBREVIATIONS

BL = Barringer Laboratories, Inc., Golden, Colorado
CEP = Controls for Environmental Pollution, Santa Fe, New Mexico
DL = Davi Laboratories, Pinole, California
ES = Eberline Services, (formerly Thermo Retec), Richmond, California
IT = International Technologies, Inc., (formerly United States Testing), Richland, Washington
LAS = LAS Laboratories, (formerly Lockheed Martin), Las Vegas, Nevada
STL = Severn Trent Laboratories, (formerly International Technologies, Inc.), Richland, Washington
TEL = Teledyne Isotopes, Westwood, New Jersey
TMA = Thermoanalytical Inc. (TMA/NORCAL), Richmond, California
TN = Thermo NUtech, (formerly Thermoanalytical Inc. (TMA/NORCAL)), Richmond, California
TR = Thermo Retec, (formerly Thermo NUtech), Richmond, California
UST = United States Testing, Richland, Washington

MDA	=	Minimum detectable activity.
Z	=	Flute port number.
---	=	Data do not exist.
J	=	Result is less than contract-required MDA and greater than or equal to the MDA.
U	=	Not detected above the MDA, numerical value is the activity for the radionuclide.
pCi/L	=	picoCuries per liter.

NOTES:
Samples were analyzed for gamma-emitting radionuclides by EPA method 901.1 or equivalent or superior in-house laboratory procedures. Laboratories used the most current verion of EPA method 901.1 at the time of analysis.

Man-made gamma-emitting radionuclides include antimony-125, barium-133, beryllium-7, cerium-139, cerium-144, cesium-134, cesium-137, chromium-51, cobalt-56, cobalt-57, cobalt-58, cobalt-60, europium-152, europium-154, europium-155, manganese-54, ruthenium-106, silver-110m and sodium-22.

Any activity detected is reported by the laboratory, though the reported activity may be less than the overall laboratory error. Analytical results that are less than the instrument background count are shown as negative values.

Filtered samples were collected using a 0.45 micron filter in the field.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Piezometers										
PZ-101		Primary	06/02/05	Potassium-40	14.1 U	---	14.1	Filtered		ES
PZ-107		Primary	06/02/05	Potassium-40	35.1 U	---	35.1	Filtered		ES
PZ-111		Primary	06/02/05	Potassium-40	13.1 U	---	13.1	Filtered		ES
PZ-116		Primary	06/02/05	Potassium-40	15.6 U	---	15.6	Filtered		ES
Shallow Wells										
ES-31		Primary	02/06/99	Actinium-228	67.2 U	---	67.2	Filtered		TN
ES-31		Primary	02/06/99	Bismuth-212	112 U	---	112	Filtered		TN
ES-31		Primary	02/06/99	Bismuth-214	28.2 U	---	28.2	Filtered		TN
ES-31		Primary	02/06/99	Lead-210	795 U	---	795	Filtered		TN
ES-31		Primary	02/06/99	Lead-212	22.1 U	---	22.1	Filtered		TN
ES-31		Primary	02/06/99	Lead-214	27 U	---	27	Filtered		TN
ES-31		Primary	02/06/99	Potassium-40	227 U	---	227	Filtered		TN
ES-31		Primary	02/06/99	Radium-226	206 U	---	206	Filtered		TN
ES-31		Primary	02/06/99	Thallium-208	16.4 U	---	16.4	Filtered		TN
ES-31		Primary	02/06/99	Thorium-234	327 U	---	327	Filtered		TN
ES-31		Primary	02/06/99	Uranium-235	75.8 U	---	75.8	Filtered		TN
ES-31		Primary	02/06/00	Actinium-228	58.2 U	---	58.2	Filtered		TR
ES-31		Primary	02/06/00	Bismuth-212	104 U	---	104	Filtered		TR
ES-31		Primary	02/06/00	Bismuth-214	27.2 U	---	27.2	Filtered		TR
ES-31		Primary	02/06/00	Lead-210	904 U	---	904	Filtered		TR
ES-31		Primary	02/06/00	Lead-212	26.2 U	---	26.2	Filtered		TR
ES-31		Primary	02/06/00	Lead-214	23.7 U	---	23.7	Filtered		TR
ES-31		Primary	02/06/00	Potassium-40	226 U	---	226	Filtered		TR
ES-31		Primary	02/06/00	Radium-226	175 U	---	175	Filtered		TR
ES-31		Primary	02/06/00	Thallium-208	14.6 U	---	14.6	Filtered		TR
ES-31		Primary	02/06/00	Thorium-234	316 U	---	316	Filtered		TR
ES-31		Primary	02/06/00	Uranium-235	68.4 U	---	68.4	Filtered		TR
ES-31		Primary	02/15/01	Actinium-228	59.4 U	---	59.4	Filtered		ES
ES-31		Primary	02/15/01	Bismuth-212	90.5 U	---	90.5	Filtered		ES
ES-31		Primary	02/15/01	Bismuth-214	165	28	26.7	Filtered		ES
ES-31		Primary	02/15/01	Lead-210	2940 U	---	2940	Filtered		ES
ES-31		Primary	02/15/01	Lead-212	19 U	---	19	Filtered		ES
ES-31		Primary	02/15/01	Lead-214	162	27	28.4	Filtered		ES
ES-31		Primary	02/15/01	Potassium-40	222 U	---	222	Filtered		ES
ES-31		Primary	02/15/01	Radium-226	205 U	---	205	Filtered		ES
ES-31		Primary	02/15/01	Thallium-208	13 U	---	13	Filtered		ES
ES-31		Primary	02/15/01	Thorium-234	384 U	---	384	Filtered		ES
ES-31		Primary	02/15/01	Uranium-235	72.2 U	---	72.2	Filtered		ES
ES-31		Primary	02/18/02	Actinium-228	5 U	3	5	Filtered		DL
ES-31		Primary	02/18/02	Bismuth-212	3 U	3	3	Filtered		DL
ES-31		Primary	02/18/02	Bismuth-214	3 U	3	3	Filtered		DL
ES-31		Primary	02/18/02	Lead-210	5 U	5	5	Filtered		DL
ES-31		Primary	02/18/02	Lead-212	3 U	3	3	Filtered		DL
ES-31		Primary	02/18/02	Lead-214	5 U	3	5	Filtered		DL

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Shallow Wells										
ES-31		Primary	02/18/02	Potassium-40	5 U	3	5	Filtered		DL
ES-31		Primary	02/18/02	Radium-226	3 U	3	3	Filtered		DL
ES-31		Primary	02/18/02	Thorium-234	5 U	5	5	Filtered		DL
ES-31		Primary	02/18/02	Uranium-235	3 U	3	3	Filtered		DL
ES-31		Primary	02/19/03	Actinium-228	8.96 U	---	8.96	Filtered		ES
ES-31		Primary	02/19/03	Bismuth-212	14.5 U	---	14.5	Filtered		ES
ES-31		Primary	02/19/03	Bismuth-214	3.89 U	---	3.89	Filtered		ES
ES-31		Primary	02/19/03	Lead-210	429 U	---	429	Filtered		ES
ES-31		Primary	02/19/03	Lead-212	2.68 U	---	2.68	Filtered		ES
ES-31		Primary	02/19/03	Lead-214	3.77 U	---	3.77	Filtered		ES
ES-31		Primary	02/19/03	Potassium-40	41.3 U	---	41.3	Filtered		ES
ES-31		Primary	02/19/03	Radium-226	29.8 U	---	29.8	Filtered		ES
ES-31		Primary	02/19/03	Thorium-234	60.4 U	---	60.4	Filtered		ES
ES-31		Primary	02/19/03	Uranium-235	11.4 U	---	11.4	Filtered		ES
ES-31		Primary	03/10/05	Potassium-40	13.7 U	---	13.7	Filtered		ES
ES-31		Primary	02/21/06	Potassium-40	19.5 U	---	19.5	Filtered		ES
ES-31		Primary	02/28/07	Potassium-40	28.9 U	---	28.9	Filtered		ES
ES-31		Primary	02/01/08	Potassium-40	34.4 U	---	34.4	Filtered		ES
RS-11		Primary	02/06/99	Actinium-228	61.3 U	---	61.3	Filtered		TN
RS-11		Primary	02/06/99	Bismuth-212	103 U	---	103	Filtered		TN
RS-11		Primary	02/06/99	Bismuth-214	28.5 U	---	28.5	Filtered		TN
RS-11		Primary	02/06/99	Lead-210	472 U	---	472	Filtered		TN
RS-11		Primary	02/06/99	Lead-212	19.8 U	---	19.8	Filtered		TN
RS-11		Primary	02/06/99	Lead-214	26.7 U	---	26.7	Filtered		TN
RS-11		Primary	02/06/99	Potassium-40	403 U	---	403	Filtered		TN
RS-11		Primary	02/06/99	Radium-226	190 U	---	190	Filtered		TN
RS-11		Primary	02/06/99	Thallium-208	14.4 U	---	14.4	Filtered		TN
RS-11		Primary	02/06/99	Thorium-234	236 U	---	236	Filtered		TN
RS-11		Primary	02/06/99	Uranium-235	70.8 U	---	70.8	Filtered		TN
RS-11		Primary	02/15/00	Actinium-228	61.3 U	---	61.3	Filtered		TR
RS-11		Primary	02/15/00	Bismuth-212	103 U	---	103	Filtered		TR
RS-11		Primary	02/15/00	Bismuth-214	28.5 U	---	28.5	Filtered		TR
RS-11		Primary	02/15/00	Lead-210	472 U	---	472	Filtered		TR
RS-11		Primary	02/15/00	Lead-212	19.8 U	---	19.8	Filtered		TR
RS-11		Primary	02/15/00	Lead-214	26.7 U	---	26.7	Filtered		TR
RS-11		Primary	02/15/00	Potassium-40	403 U	---	403	Filtered		TR
RS-11		Primary	02/15/00	Radium-226	190 U	---	190	Filtered		TR
RS-11		Primary	02/15/00	Thallium-208	14.4 U	---	14.4	Filtered		TR
RS-11		Primary	02/15/00	Thorium-234	236 U	---	236	Filtered		TR
RS-11		Primary	02/15/00	Uranium-235	70.8 U	---	70.8	Filtered		TR
RS-11		Primary	02/06/01	Actinium-228	62.9 U	---	62.9	Filtered		ES
RS-11		Primary	02/06/01	Bismuth-212	103 U	---	103	Filtered		ES
RS-11		Primary	02/06/01	Bismuth-214	32.6 U	---	32.6	Filtered		ES
RS-11		Primary	02/06/01	Lead-210	484 U	---	484	Filtered		ES
RS-11		Primary	02/06/01	Lead-212	21 U	---	21	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Shallow Wells										
RS-11		Primary	02/06/01	Lead-214	30.4 U	---	30.4	Filtered		ES
RS-11		Primary	02/06/01	Potassium-40	418 U	---	418	Filtered		ES
RS-11		Primary	02/06/01	Radium-226	31.6 U	---	31.6	Filtered		ES
RS-11		Primary	02/06/01	Thallium-208	15.2 U	---	15.2	Filtered		ES
RS-11		Primary	02/06/01	Thorium-234	237 U	---	237	Filtered		ES
RS-11		Primary	02/06/01	Uranium-235	63.3 U	---	63.3	Filtered		ES
RS-11		Primary	05/01/03	Actinium-228	5.61 U	---	5.61	Filtered		ES
RS-11		Primary	05/01/03	Bismuth-212	8.51 U	---	8.51	Filtered		ES
RS-11		Primary	05/01/03	Bismuth-214	2.49 U	---	2.49	Filtered		ES
RS-11		Primary	05/01/03	Lead-210	261 U	---	261	Filtered		ES
RS-11		Primary	05/01/03	Lead-212	1.78 U	---	1.78	Filtered		ES
RS-11		Primary	05/01/03	Lead-214	2.36 U	---	2.36	Filtered		ES
RS-11		Primary	05/01/03	Potassium-40	30.4 U	---	30.4	Filtered		ES
RS-11		Primary	05/01/03	Radium-226	17.1 U	---	17.1	Filtered		ES
RS-11		Primary	05/01/03	Thorium-234	34.7 U	---	34.7	Filtered		ES
RS-11		Primary	05/01/03	Uranium-235	6.58 U	---	6.58	Filtered		ES
RS-11		Primary	02/17/05	Potassium-40	14.8 U	---	14.8	Filtered		ES
RS-11		Primary	02/21/06	Potassium-40	15.1 U	---	15.1	Filtered		ES
RS-11		Primary	02/28/07	Potassium-40	17.6 U	---	17.6	Filtered		ES
RS-11		Primary	05/02/08	Potassium-40	28 U	---	28	Filtered		ES
RS-16		Primary	02/01/08	Potassium-40	8.39 U	---	8.39	Filtered		ES
RS-18		Primary	11/06/93	Actinium-228	8.1 U	---	8.1	Filtered		LAS
RS-18		Primary	11/06/93	Bismuth-212	24.1 U	---	24.1	Filtered		LAS
RS-18		Primary	11/06/93	Bismuth-214	4.7 U	---	4.7	Filtered		LAS
RS-18		Primary	11/06/93	Lead-210	230 U	---	230	Filtered		LAS
RS-18		Primary	11/06/93	Lead-212	4.46 U	---	4.46	Filtered		LAS
RS-18		Primary	11/06/93	Lead-214	4.58 U	---	4.58	Filtered		LAS
RS-18		Primary	11/06/93	Potassium-40	24.6 U	---	24.6	Filtered		LAS
RS-18		Primary	11/06/93	Thallium-208	3.9 U	---	3.9	Filtered		LAS
RS-18		Primary	11/06/93	Thorium-234	94.2 U	---	94.2	Filtered		LAS
RS-18		Primary	11/06/93	Uranium-235	2.46 U	---	2.46	Filtered		LAS
RS-18		Primary	05/04/94	Actinium-228	14 U	21	28	Filtered		LAS
RS-18		Primary	05/04/94	Bismuth-214	16	13	15	Filtered		LAS
RS-18		Primary	05/04/94	Lead-212	2.1 U	9.7	12	Filtered		LAS
RS-18		Primary	05/04/94	Lead-214	15 U	12	16	Filtered		LAS
RS-18		Primary	05/04/94	Potassium-40	-15 U	66	92	Filtered		LAS
RS-18		Primary	05/04/94	Thallium-208	2.6 U	7.8	9.5	Filtered		LAS
RS-18		Primary	05/04/94	Thorium-234	41 U	65	130	Filtered		LAS
RS-18		Primary	02/17/95	Actinium-228	-9 U	27	48	Filtered		LAS
RS-18		Primary	02/17/95	Bismuth-214	0 U	15	22	Filtered		LAS
RS-18		Primary	02/17/95	Lead-212	-11 U	11	17	Filtered		LAS
RS-18		Primary	02/17/95	Lead-214	8 U	12	18	Filtered		LAS
RS-18		Primary	02/17/95	Potassium-40	-16 U	86	130	Filtered		LAS
RS-18		Primary	02/17/95	Thallium-208	-6.6 U	7.5	12	Filtered		LAS
RS-18		Primary	02/17/95	Thorium-234	20 U	110	160	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Shallow Wells										
RS-18		Primary	08/10/95	Actinium-228	8 U	21	44	Filtered		LAS
RS-18		Primary	08/10/95	Bismuth-214	-5 U	11	20	Filtered		LAS
RS-18		Primary	08/10/95	Lead-212	-7 U	10	16	Filtered		LAS
RS-18		Primary	08/10/95	Lead-214	4 U	11	17	Filtered		LAS
RS-18		Primary	08/10/95	Potassium-40	48 U	76	100	Filtered		LAS
RS-18		Primary	08/10/95	Thallium-208	0.2 U	7.2	11	Filtered		LAS
RS-18		Primary	08/10/95	Thorium-234	7 U	68	160	Filtered		LAS
RS-18		Primary	05/16/96	Actinium-228	6 U	21	33	Filtered		LAS
RS-18		Primary	05/16/96	Bismuth-214	29	15	19	Filtered		LAS
RS-18		Primary	05/16/96	Lead-212	-6.2 U	9.8	15	Filtered		LAS
RS-18		Primary	05/16/96	Lead-214	18	12	17	Filtered		LAS
RS-18		Primary	05/16/96	Potassium-40	17 U	80	120	Filtered		LAS
RS-18		Primary	05/16/96	Thallium-208	0 U	6.9	10	Filtered		LAS
RS-18		Primary	05/16/96	Thorium-234	39 U	71	180	Filtered		LAS
RS-18		Primary	05/16/96	Uranium-235	25 U	27	39	Filtered		LAS
RS-18		Primary	02/03/97	Actinium-228	-8 U	40	68	Filtered		LAS
RS-18		Primary	02/03/97	Bismuth-214	9 U	29	42	Filtered		LAS
RS-18		Primary	02/03/97	Lead-212	-6 U	26	37	Filtered		LAS
RS-18		Primary	02/03/97	Lead-214	19 U	26	38	Filtered		LAS
RS-18		Primary	02/03/97	Potassium-40	-10 U	140	210	Filtered		LAS
RS-18		Primary	02/03/97	Thallium-208	4 U	15	20	Filtered		LAS
RS-18		Primary	02/03/97	Thorium-234	30 U	220	660	Filtered		LAS
RS-18		Primary	02/05/98	Actinium-228	18 U	---	18	Filtered		TN
RS-18		Primary	02/05/98	Bismuth-212	29.5 U	---	29.5	Filtered		TN
RS-18		Primary	02/05/98	Bismuth-214	11.1 U	---	11.1	Filtered		TN
RS-18		Primary	02/05/98	Lead-210	245 U	---	245	Filtered		TN
RS-18		Primary	02/05/98	Lead-212	6.76 U	---	6.76	Filtered		TN
RS-18		Primary	02/05/98	Lead-214	9.27	8.4	---	Filtered		TN
RS-18		Primary	02/05/98	Potassium-40	81.8 U	---	81.8	Filtered		TN
RS-18		Primary	02/05/98	Thallium-208	3.95 U	---	3.95	Filtered		TN
RS-18		Primary	02/05/98	Thorium-234	109 U	---	109	Filtered		TN
RS-18		Primary	08/05/98	Actinium-228	107 U	---	107	Filtered		TN
RS-18		Primary	08/05/98	Bismuth-212	190 U	---	190	Filtered		TN
RS-18		Primary	08/05/98	Bismuth-214	56.9 U	---	56.9	Filtered		TN
RS-18		Primary	08/05/98	Lead-210	1280 U	---	1280	Filtered		TN
RS-18		Primary	08/05/98	Lead-212	39 U	---	39	Filtered		TN
RS-18		Primary	08/05/98	Lead-214	50 U	---	50	Filtered		TN
RS-18		Primary	08/05/98	Potassium-40	354 U	---	354	Filtered		TN
RS-18		Primary	08/05/98	Thallium-208	29.3 U	---	29.3	Filtered		TN
RS-18		Primary	08/05/98	Thorium-234	621 U	---	621	Filtered		TN
RS-18		Primary	05/12/99	Actinium-228	29.6 U	---	29.6	Filtered		TN
RS-18		Primary	05/12/99	Bismuth-212	51.4 U	---	51.4	Filtered		TN
RS-18		Primary	05/12/99	Bismuth-214	13.2 U	---	13.2	Filtered		TN
RS-18		Primary	05/12/99	Lead-210	460 U	---	460	Filtered		TN
RS-18		Primary	05/12/99	Lead-212	11.1 U	---	11.1	Filtered		TN

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Shallow Wells										
RS-18		Primary	05/12/99	Lead-214	12.7 U	---	12.7	Filtered		TN
RS-18		Primary	05/12/99	Potassium-40	104 U	---	104	Filtered		TN
RS-18		Primary	05/12/99	Radium-226	110 U	---	110	Filtered		TN
RS-18		Primary	05/12/99	Thallium-208	7.12 U	---	7.12	Filtered		TN
RS-18		Primary	05/12/99	Thorium-234	190 U	---	190	Filtered		TN
RS-18		Primary	05/12/99	Uranium-235	35.5 U	---	35.5	Filtered		TN
RS-18		Primary	05/09/00	Actinium-228	59.7 U	---	59.7	Filtered		TR
RS-18		Primary	05/09/00	Bismuth-212	98 U	---	98	Filtered		TR
RS-18		Primary	05/09/00	Bismuth-214	29.6 U	---	29.6	Filtered		TR
RS-18		Primary	05/09/00	Lead-210	560 U	---	560	Filtered		TR
RS-18		Primary	05/09/00	Lead-212	17.6 U	---	17.6	Filtered		TR
RS-18		Primary	05/09/00	Lead-214	25.7 U	---	25.7	Filtered		TR
RS-18		Primary	05/09/00	Potassium-40	393 U	---	393	Filtered		TR
RS-18		Primary	05/09/00	Radium-226	283 U	---	283	Filtered		TR
RS-18		Primary	05/09/00	Thallium-208	12.9 U	---	12.9	Filtered		TR
RS-18		Primary	05/09/00	Thorium-234	199 U	---	199	Filtered		TR
RS-18		Primary	05/09/00	Uranium-235	57 U	---	57	Filtered		TR
RS-18		Primary	02/19/01	Actinium-228	64.5 U	---	64.5	Filtered		ES
RS-18		Primary	02/19/01	Bismuth-212	105 U	---	105	Filtered		ES
RS-18		Primary	02/19/01	Bismuth-214	32.7 U	---	32.7	Filtered		ES
RS-18		Primary	02/19/01	Lead-210	1050 U	---	1050	Filtered		ES
RS-18		Primary	02/19/01	Lead-212	21.1 U	---	21.1	Filtered		ES
RS-18		Primary	02/19/01	Lead-214	46.4 U	---	46.4	Filtered		ES
RS-18		Primary	02/19/01	Potassium-40	265 U	---	265	Filtered		ES
RS-18		Primary	02/19/01	Radium-226	218 U	---	218	Filtered		ES
RS-18		Primary	02/19/01	Thallium-208	13.7 U	---	13.7	Filtered		ES
RS-18		Primary	02/19/01	Thorium-234	314 U	---	314	Filtered		ES
RS-18		Primary	02/19/01	Uranium-235	75.3 U	---	75.3	Filtered		ES
RS-18		Primary	05/02/03	Actinium-228	7.57 U	---	7.57	Unfiltered		ES
RS-18		Primary	05/02/03	Bismuth-212	11.9 U	---	11.9	Unfiltered		ES
RS-18		Primary	05/02/03	Bismuth-214	3.53 U	---	3.53	Unfiltered		ES
RS-18		Primary	05/02/03	Lead-210	90.1 U	---	90.1	Unfiltered		ES
RS-18		Primary	05/02/03	Lead-212	2.33 U	---	2.33	Unfiltered		ES
RS-18		Primary	05/02/03	Lead-214	3.09 U	---	3.09	Unfiltered		ES
RS-18		Primary	05/02/03	Potassium-40	44.9 U	---	44.9	Unfiltered		ES
RS-18		Primary	05/02/03	Radium-226	32.5 U	---	32.5	Unfiltered		ES
RS-18		Primary	05/02/03	Thorium-234	25.4 U	---	25.4	Unfiltered		ES
RS-18		Primary	05/02/03	Uranium-235	8.43 U	---	8.43	Unfiltered		ES
RS-18		Primary	02/23/05	Potassium-40	14.4 U	---	14.4	Filtered		ES
RS-18		Primary	08/26/05	Potassium-40	13.8 U	---	13.8	Filtered		ES
RS-18		Primary	02/20/06	Potassium-40	18.1 U	---	18.1	Filtered		ES
RS-18		Primary	02/04/08	Potassium-40	45.4 U	---	45.4	Filtered		ES
RS-25		Primary	02/25/03	Actinium-228	7.2 U	---	7.2	Filtered		ES
RS-25		Primary	02/25/03	Bismuth-212	12.2 U	---	12.2	Filtered		ES
RS-25		Primary	02/25/03	Bismuth-214	3.1 U	---	3.1	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Shallow Wells										
RS-25		Primary	02/25/03	Lead-210	366 U	---	366	Filtered		ES
RS-25		Primary	02/25/03	Lead-212	2.46 U	---	2.46	Filtered		ES
RS-25		Primary	02/25/03	Lead-214	3.23 U	---	3.23	Filtered		ES
RS-25		Primary	02/25/03	Potassium-40	34.7 U	---	34.7	Filtered		ES
RS-25		Primary	02/25/03	Radium-226	25.5 U	---	25.5	Filtered		ES
RS-25		Primary	02/25/03	Thorium-234	51 U	---	51	Filtered		ES
RS-25		Primary	02/25/03	Uranium-235	9.81 U	---	9.81	Filtered		ES
RS-25		Primary	02/13/08	Potassium-40	33.8 U	---	33.8	Filtered		ES
RS-28		Primary	11/06/93	Actinium-228	14.3 U	---	14.3	Filtered		LAS
RS-28		Primary	11/06/93	Bismuth-212	41.1 U	---	41.1	Filtered		LAS
RS-28		Primary	11/06/93	Bismuth-214	35.705	6.02	---	Filtered		LAS
RS-28		Primary	11/06/93	Lead-210	73.448	40.96	---	Filtered		LAS
RS-28		Primary	11/06/93	Lead-212	7.51 U	---	7.51	Filtered		LAS
RS-28		Primary	11/06/93	Lead-214	44.116	6.64	---	Filtered		LAS
RS-28		Primary	11/06/93	Potassium-40	45.2 U	---	45.2	Filtered		LAS
RS-28		Primary	11/06/93	Thallium-208	3.0516	2.58	---	Filtered		LAS
RS-28		Primary	11/06/93	Thorium-234	76.7 U	---	76.7	Filtered		LAS
RS-28		Primary	11/06/93	Uranium-235	4.07 U	---	4.07	Filtered		LAS
RS-28		Primary	05/07/94	Actinium-228	-25 U	13	30	Filtered		LAS
RS-28		Primary	05/07/94	Bismuth-214	91	20	15	Filtered		LAS
RS-28		Primary	05/07/94	Lead-212	3.4 U	9.5	13	Filtered		LAS
RS-28		Primary	05/07/94	Lead-214	119	18	17	Filtered		LAS
RS-28		Primary	05/07/94	Potassium-40	-8 U	66	100	Filtered		LAS
RS-28		Primary	05/07/94	Thallium-208	-1 U	7.6	11	Filtered		LAS
RS-28		Primary	05/07/94	Thorium-234	65 U	59	130	Filtered		LAS
RS-28		Primary	05/17/95	Actinium-228	2 U	26	41	Filtered		LAS
RS-28		Primary	05/17/95	Bismuth-214	85	24	24	Filtered		LAS
RS-28		Primary	05/17/95	Lead-212	2 U	12	17	Filtered		LAS
RS-28		Primary	05/17/95	Lead-214	86	19	20	Filtered		LAS
RS-28		Primary	05/17/95	Potassium-40	46 U	89	120	Filtered		LAS
RS-28		Primary	05/17/95	Thallium-208	-0.6 U	8.8	12	Filtered		LAS
RS-28		Primary	05/17/95	Thorium-234	-10 U	130	190	Filtered		LAS
RS-28		Primary	05/16/96	Actinium-228	0 U	11	19	Filtered		LAS
RS-28		Primary	05/16/96	Bismuth-214	103	16	12	Filtered		LAS
RS-28		Primary	05/16/96	Lead-212	-0.4 U	6.6	10	Filtered		LAS
RS-28		Primary	05/16/96	Lead-214	120	14	9.7	Filtered		LAS
RS-28		Primary	05/16/96	Potassium-40	-15 U	36	62	Filtered		LAS
RS-28		Primary	05/16/96	Thallium-208	-0.5 U	3.6	5.4	Filtered		LAS
RS-28		Primary	05/16/96	Thorium-234	-2 U	65	270	Filtered		LAS
RS-28		Primary	05/16/96	Uranium-235	6 U	21	32	Filtered		LAS
RS-28		Primary	05/08/98	Actinium-228	59 U	---	59	Filtered		TN
RS-28		Primary	05/08/98	Bismuth-212	103 U	---	103	Filtered		TN
RS-28		Primary	05/08/98	Bismuth-214	29.8 U	---	29.8	Filtered		TN
RS-28		Primary	05/08/98	Lead-210	758 U	---	758	Filtered		TN
RS-28		Primary	05/08/98	Lead-212	21.7 U	---	21.7	Filtered		TN

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Shallow Wells										
RS-28		Primary	05/08/98	Lead-214	39.4 U	---	39.4	Filtered		TN
RS-28		Primary	05/08/98	Potassium-40	254 U	---	254	Filtered		TN
RS-28		Primary	05/08/98	Thallium-208	14.1 U	---	14.1	Filtered		TN
RS-28		Primary	05/08/98	Thorium-234	298 U	---	298	Filtered		TN
RS-28		Primary	11/16/98	Actinium-228	29.1 U	---	29.1	Filtered		TN
RS-28		Primary	11/16/98	Bismuth-212	50.9 U	---	50.9	Filtered		TN
RS-28		Primary	11/16/98	Bismuth-214	13.3 U	---	13.3	Filtered		TN
RS-28		Primary	11/16/98	Lead-210	337 U	---	337	Filtered		TN
RS-28		Primary	11/16/98	Lead-212	19.1 U	---	19.1	Filtered		TN
RS-28		Primary	11/16/98	Lead-214	12.3 U	---	12.3	Filtered		TN
RS-28		Primary	11/16/98	Potassium-40	150 U	---	150	Filtered		TN
RS-28		Primary	11/16/98	Thallium-208	6.25 U	---	6.25	Filtered		TN
RS-28		Primary	11/16/98	Thorium-234	179 U	---	179	Filtered		TN
RS-28		Primary	05/05/00	Actinium-228	56 U	---	56	Filtered		TR
RS-28		Primary	05/05/00	Bismuth-212	93.8 U	---	93.8	Filtered		TR
RS-28		Primary	05/05/00	Bismuth-214	23.1 U	---	23.1	Filtered		TR
RS-28		Primary	05/05/00	Lead-210	2810 U	---	2810	Filtered		TR
RS-28		Primary	05/05/00	Lead-212	24.2 U	---	24.2	Filtered		TR
RS-28		Primary	05/05/00	Lead-214	23.2 U	---	23.2	Filtered		TR
RS-28		Primary	05/05/00	Potassium-40	215 U	---	215	Filtered		TR
RS-28		Primary	05/05/00	Radium-226	184 U	---	184	Filtered		TR
RS-28		Primary	05/05/00	Thallium-208	12.6 U	---	12.6	Filtered		TR
RS-28		Primary	05/05/00	Thorium-234	384 U	---	384	Filtered		TR
RS-28		Primary	05/05/00	Uranium-235	77.7 U	---	77.7	Filtered		TR
RS-28		Primary	05/10/01	Actinium-228	27.6 U	---	27.6	Filtered		ES
RS-28		Primary	05/10/01	Bismuth-212	53.8 U	---	53.8	Filtered		ES
RS-28		Primary	05/10/01	Bismuth-214	15.4 U	---	15.4	Filtered		ES
RS-28		Primary	05/10/01	Lead-210	399 U	---	399	Filtered		ES
RS-28		Primary	05/10/01	Lead-212	9.79 U	---	9.79	Filtered		ES
RS-28		Primary	05/10/01	Lead-214	12.9 U	---	12.9	Filtered		ES
RS-28		Primary	05/10/01	Potassium-40	75.8 U	---	75.8	Filtered		ES
RS-28		Primary	05/10/01	Radium-226	104 U	---	104	Filtered		ES
RS-28		Primary	05/10/01	Thallium-208	6.84 U	---	6.84	Filtered		ES
RS-28		Primary	05/10/01	Thorium-234	183 U	---	183	Filtered		ES
RS-28		Primary	05/10/01	Uranium-235	32.6 U	---	32.6	Filtered		ES
RS-28		Primary	05/20/05	Potassium-40	28.9 U	---	28.9	Filtered		ES
RS-28		Primary	02/17/06	Potassium-40	24.2 U	---	24.2	Filtered		ES
RS-28		Primary	02/13/07	Potassium-40	24.9 U	---	24.9	Filtered		ES
RS-28		Primary	02/06/08	Potassium-40	27.6 U	---	27.6	Filtered		ES
RS-54		Primary	05/07/94	Actinium-228	10 U	19	29	Filtered		LAS
RS-54		Primary	05/07/94	Bismuth-214	11 U	12	16	Filtered		LAS
RS-54		Primary	05/07/94	Lead-212	4.2 U	9.4	13	Filtered		LAS
RS-54		Primary	05/07/94	Lead-214	12 U	11	15	Filtered		LAS
RS-54		Primary	05/07/94	Potassium-40	-14 U	66	100	Filtered		LAS
RS-54		Primary	05/07/94	Thallium-208	6.7 U	7.4	9.4	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Shallow Wells										
RS-54		Primary	05/07/94	Thorium-234	54 U	60	130	Filtered		LAS
RS-54		Primary	08/07/94	Actinium-228	24 U	89	170	Filtered		LAS
RS-54		Primary	08/07/94	Bismuth-214	10 U	56	87	Filtered		LAS
RS-54		Primary	08/07/94	Lead-212	33 U	42	57	Filtered		LAS
RS-54		Primary	08/07/94	Lead-214	-50 U	43	74	Filtered		LAS
RS-54		Primary	08/07/94	Potassium-40	220 U	340	500	Filtered		LAS
RS-54		Primary	08/07/94	Radium-226	-110 U	440	590	Filtered		LAS
RS-54		Primary	08/07/94	Thallium-208	6 U	30	42	Filtered		LAS
RS-54		Primary	08/07/94	Thorium-234	40 U	280	680	Filtered		LAS
RS-54		Primary	08/07/94	Uranium-235	20 U	110	150	Filtered		LAS
RS-54		Primary	08/03/95	Actinium-228	-15.4 U	9.6	39	Filtered		LAS
RS-54		Primary	08/03/95	Bismuth-214	-4 U	13	21	Filtered		LAS
RS-54		Primary	08/03/95	Lead-212	3.6 U	9.9	14	Filtered		LAS
RS-54		Primary	08/03/95	Lead-214	8 U	11	17	Filtered		LAS
RS-54		Primary	08/03/95	Potassium-40	-5 U	61	98	Filtered		LAS
RS-54		Primary	08/03/95	Thallium-208	-0.8 U	6.8	10	Filtered		LAS
RS-54		Primary	08/03/95	Thorium-234	3 U	65	150	Filtered		LAS
RS-54		Primary	05/16/96	Actinium-228	-19 U	11	41	Filtered		LAS
RS-54		Primary	05/16/96	Bismuth-214	24	15	20	Filtered		LAS
RS-54		Primary	05/16/96	Lead-212	3.5 U	9.5	14	Filtered		LAS
RS-54		Primary	05/16/96	Lead-214	15 U	12	19	Filtered		LAS
RS-54		Primary	05/16/96	Potassium-40	-5 U	72	110	Filtered		LAS
RS-54		Primary	05/16/96	Thallium-208	-2.6 U	7.5	11	Filtered		LAS
RS-54		Primary	05/16/96	Thorium-234	31 U	70	180	Filtered		LAS
RS-54		Primary	05/16/96	Uranium-235	-4 U	27	41	Filtered		LAS
RS-54		Primary	08/23/96	Actinium-228	16 U	21	34	Filtered		LAS
RS-54		Primary	08/23/96	Bismuth-214	107	24	21	Filtered		LAS
RS-54		Primary	08/23/96	Lead-212	4 U	10	15	Filtered		LAS
RS-54		Primary	08/23/96	Lead-214	119	20	18	Filtered		LAS
RS-54		Primary	08/23/96	Potassium-40	-27 U	65	120	Filtered		LAS
RS-54		Primary	08/23/96	Thallium-208	3.3 U	6.9	9.4	Filtered		LAS
RS-54		Primary	08/23/96	Thorium-234	9 U	73	200	Filtered		LAS
RS-54		Primary	05/03/97	Actinium-228	3 U	27	42	Filtered		LAS
RS-54		Primary	05/03/97	Bismuth-214	51	20	23	Filtered		LAS
RS-54		Primary	05/03/97	Lead-212	2 U	11	15	Filtered		LAS
RS-54		Primary	05/03/97	Lead-214	39	15	18	Filtered		LAS
RS-54		Primary	05/03/97	Potassium-40	22 U	77	110	Filtered		LAS
RS-54		Primary	05/03/97	Thallium-208	4.6 U	8	9.8	Filtered		LAS
RS-54		Primary	05/03/97	Thorium-234	20 U	130	200	Filtered		LAS
RS-54		Primary	08/02/97	Actinium-228	10 U	22	36	Filtered		LAS
RS-54		Primary	08/02/97	Bismuth-212	22 U	34	55	Filtered		LAS
RS-54		Primary	08/02/97	Bismuth-214	185	28	19	Filtered		LAS
RS-54		Primary	08/02/97	Lead-210	70 U	120	190	Filtered		LAS
RS-54		Primary	08/02/97	Lead-212	5 U	11	16	Filtered		LAS
RS-54		Primary	08/02/97	Lead-214	235	26	18	Filtered		LAS

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Shallow Wells										
RS-54		Primary	08/02/97	Potassium-40	38 U	69	100	Filtered		LAS
RS-54		Primary	08/02/97	Thallium-208	-0.9 U	6.8	10	Filtered		LAS
RS-54		Primary	08/02/97	Thorium-234	42 U	83	160	Filtered		LAS
RS-54		Primary	08/27/97	Actinium-228	-0.3 U	9.9	18	Filtered		LAS
RS-54		Primary	08/27/97	Actinium-228	8 U	11	18	Unfiltered		LAS
RS-54		Primary	08/27/97	Bismuth-212	2 U	25	34	Filtered		LAS
RS-54		Primary	08/27/97	Bismuth-212	-1.9 U	8	26	Unfiltered		LAS
RS-54		Primary	08/27/97	Bismuth-214	80	13	11	Filtered		LAS
RS-54		Primary	08/27/97	Bismuth-214	55	11	11	Unfiltered		LAS
RS-54		Primary	08/27/97	Lead-210	-130 U	400	590	Filtered		LAS
RS-54		Primary	08/27/97	Lead-210	-20 U	380	540	Unfiltered		LAS
RS-54		Primary	08/27/97	Lead-212	2.1 U	5	3	Filtered		LAS
RS-54		Primary	08/27/97	Lead-212	2.9 U	6.2	9.1	Unfiltered		LAS
RS-54		Primary	08/27/97	Lead-214	92	12	10	Filtered		LAS
RS-54		Primary	08/27/97	Lead-214	54.4	9.9	10	Unfiltered		LAS
RS-54		Primary	08/27/97	Potassium-40	14 U	37	57	Filtered		LAS
RS-54		Primary	08/27/97	Potassium-40	35 U	37	52	Unfiltered		LAS
RS-54		Primary	08/27/97	Thallium-208	1.4 U	3.4	4.8	Filtered		LAS
RS-54		Primary	08/27/97	Thallium-208	0.6 U	3.6	5.2	Unfiltered		LAS
RS-54		Primary	08/27/97	Thorium-234	-7 U	64	100	Filtered		LAS
RS-54		Primary	08/27/97	Thorium-234	20 U	64	100	Unfiltered		LAS
RS-54		Primary	02/08/98	Actinium-228	63.9 U	---	63.9	Filtered		TN
RS-54		Primary	02/08/98	Bismuth-212	130 U	---	130	Filtered		TN
RS-54		Primary	02/08/98	Bismuth-214	30.4 U	---	30.4	Filtered		TN
RS-54		Primary	02/08/98	Lead-210	763 U	---	763	Filtered		TN
RS-54		Primary	02/08/98	Lead-212	21.6 U	---	21.6	Filtered		TN
RS-54		Primary	02/08/98	Lead-214	28.5 U	---	28.5	Filtered		TN
RS-54		Primary	02/08/98	Potassium-40	236 U	---	236	Filtered		TN
RS-54		Primary	02/08/98	Thallium-208	16 U	---	16	Filtered		TN
RS-54		Primary	02/08/98	Thorium-234	321 U	---	321	Filtered		TN
RS-54		Primary	08/04/98	Actinium-228	52.1 U	---	52.1	Filtered		TN
RS-54		Primary	08/04/98	Bismuth-212	92.7 U	---	92.7	Filtered		TN
RS-54		Primary	08/04/98	Bismuth-214	25.2 U	---	25.2	Filtered		TN
RS-54		Primary	08/04/98	Lead-210	501 U	---	501	Filtered		TN
RS-54		Primary	08/04/98	Lead-212	19.5 U	---	19.5	Filtered		TN
RS-54		Primary	08/04/98	Lead-214	22.2 U	---	22.2	Filtered		TN
RS-54		Primary	08/04/98	Potassium-40	154 U	---	154	Filtered		TN
RS-54		Primary	08/04/98	Thallium-208	11.2 U	---	11.2	Filtered		TN
RS-54		Primary	08/04/98	Thorium-234	309 U	---	309	Filtered		TN
RS-54		Primary	02/02/99	Bismuth-212	101 U	---	101	Filtered		TN
RS-54		Primary	02/02/99	Lead-210	99 U	---	99	Filtered		TN
RS-54		Primary	02/02/99	Lead-212	14.6 U	---	14.6	Filtered		TN
RS-54		Primary	02/02/99	Lead-214	24 U	---	24	Filtered		TN
RS-54		Primary	02/02/99	Potassium-40	184 U	---	184	Filtered		TN
RS-54		Primary	02/02/99	Radium-226	145 U	---	145	Filtered		TN

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Shallow Wells										
RS-54		Primary	02/02/99	Thallium-208	13.2 U	---	13.2	Filtered		TN
RS-54		Primary	02/02/99	Thorium-234	192 U	---	192	Filtered		TN
RS-54		Primary	02/02/99	Uranium-235	40.4 U	---	40.4	Filtered		TN
RS-54		Primary	08/18/99	Actinium-228	49.3 U	---	49.3	Filtered		TN
RS-54		Primary	08/18/99	Bismuth-212	83.6 U	---	83.6	Filtered		TN
RS-54		Primary	08/18/99	Bismuth-214	19.3 U	---	19.3	Filtered		TN
RS-54		Primary	08/18/99	Lead-210	2380 U	---	2380	Filtered		TN
RS-54		Primary	08/18/99	Lead-212	15.7 U	---	15.7	Filtered		TN
RS-54		Primary	08/18/99	Lead-214	17.9 U	---	17.9	Filtered		TN
RS-54		Primary	08/18/99	Potassium-40	190 U	---	190	Filtered		TN
RS-54		Primary	08/18/99	Radium-226	172 U	---	172	Filtered		TN
RS-54		Primary	08/18/99	Thallium-208	10.4 U	---	10.4	Filtered		TN
RS-54		Primary	08/18/99	Thorium-234	341 U	---	341	Filtered		TN
RS-54		Primary	08/18/99	Uranium-235	60.2 U	---	60.2	Filtered		TN
RS-54		Primary	03/15/00	Actinium-228	112 U	---	112	Filtered		TR
RS-54		Primary	03/15/00	Bismuth-212	183 U	---	183	Filtered		TR
RS-54		Primary	03/15/00	Bismuth-214	51.5 U	---	51.5	Filtered		TR
RS-54		Primary	03/15/00	Lead-210	1090 U	---	1090	Filtered		TR
RS-54		Primary	03/15/00	Lead-212	35.8 U	---	35.8	Filtered		TR
RS-54		Primary	03/15/00	Lead-214	42.5 U	---	42.5	Filtered		TR
RS-54		Primary	03/15/00	Potassium-40	444 U	---	444	Filtered		TR
RS-54		Primary	03/15/00	Radium-226	316 U	---	316	Filtered		TR
RS-54		Primary	03/15/00	Thallium-208	26.5 U	---	26.5	Filtered		TR
RS-54		Primary	03/15/00	Thorium-234	486 U	---	486	Filtered		TR
RS-54		Primary	03/15/00	Uranium-235	132 U	---	132	Filtered		TR
RS-54		Primary	11/01/01	Actinium-228	1.5 U	5	9	Filtered		DL
RS-54		Primary	11/01/01	Bismuth-212	2.1 U	5	3	Filtered		DL
RS-54		Primary	11/01/01	Bismuth-214	3 U	---	3	Filtered		DL
RS-54		Primary	11/01/01	Lead-210	7 U	---	7	Filtered		DL
RS-54		Primary	11/01/01	Lead-212	2.1 U	6.3	9.2	Filtered		DL
RS-54		Primary	11/01/01	Lead-214	3 U	---	3	Filtered		DL
RS-54		Primary	11/01/01	Potassium-40	10 U	---	10	Filtered		DL
RS-54		Primary	11/01/01	Radium-226	3.2	5	1	Filtered		DL
RS-54		Primary	11/01/01	Thallium-208	0.3 U	3	5	Filtered		DL
RS-54		Primary	11/01/01	Thorium-234	5 U	---	5	Filtered		DL
RS-54		Primary	11/01/01	Uranium-235	0.8 U	0.1	1	Filtered		DL
RS-54		Primary	03/01/02	Actinium-228	3 U	3	3	Filtered		DL
RS-54		Primary	03/01/02	Bismuth-212	3 U	1.82	3	Filtered		DL
RS-54		Primary	03/01/02	Bismuth-214	3 U	1.08	3	Filtered		DL
RS-54		Primary	03/01/02	Lead-210	5 U	5	5	Filtered		DL
RS-54		Primary	03/01/02	Lead-212	3 U	3	3	Filtered		DL
RS-54		Primary	03/01/02	Lead-214	5 U	3	5	Filtered		DL
RS-54		Primary	03/01/02	Potassium-40	5 U	3	5	Filtered		DL
RS-54		Primary	03/01/02	Radium-226	3 U	1.82	3	Filtered		DL
RS-54		Primary	03/01/02	Thorium-234	5 U	5	5	Filtered		DL

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Shallow Wells										
RS-54		Primary	03/01/02	Uranium-235	7.47 U	4.5	7.47	Filtered		DL
RS-54		Primary	11/07/02	Actinium-228	10.6 U	---	10.6	Filtered		ES
RS-54		Primary	11/07/02	Bismuth-212	19.6 U	---	19.6	Filtered		ES
RS-54		Primary	11/07/02	Bismuth-214	5.21 U	---	5.21	Filtered		ES
RS-54		Primary	11/07/02	Lead-210	242 U	---	242	Filtered		ES
RS-54		Primary	11/07/02	Lead-212	4.22 U	---	4.22	Filtered		ES
RS-54		Primary	11/07/02	Lead-214	5.59 U	---	5.59	Filtered		ES
RS-54		Primary	11/07/02	Potassium-40	27.4 U	---	27.4	Filtered		ES
RS-54		Primary	11/07/02	Radium-226	44.4 U	---	44.4	Filtered		ES
RS-54		Primary	11/07/02	Thorium-234	82 U	---	82	Filtered		ES
RS-54		Primary	11/07/02	Uranium-235	16.6 U	---	16.6	Filtered		ES
RS-54		Primary	02/16/05	Potassium-40	13.5 U	---	13.5	Filtered		ES
RS-54		Primary	09/06/05	Potassium-40	62.2 U	---	62.2	Filtered		ES
RS-54		Primary	02/23/06	Potassium-40	29.1 U	---	29.1	Filtered		ES
RS-54		Split	02/23/06	Potassium-40	-21.8 U	26	44.9	Filtered		STL
RS-54		Primary	02/15/07	Potassium-40	26.3 U	---	26.3	Filtered		ES
RS-54		Primary	02/22/08	Potassium-40	32.3 U	---	32.3	Filtered		ES
Chatsworth Formation Wells										
RD-07		Primary	08/25/97	Actinium-228	-4.9 U	4.2	18	Filtered		LAS
RD-07		Primary	08/25/97	Actinium-228	7 U	22	38	Unfiltered		LAS
RD-07		Primary	08/25/97	Bismuth-212	14 U	21	24	Filtered		LAS
RD-07		Primary	08/25/97	Bismuth-212	-12 U	38	72	Unfiltered		LAS
RD-07		Primary	08/25/97	Bismuth-214	39.3	9.6	10	Filtered		LAS
RD-07		Primary	08/25/97	Bismuth-214	51	18	19	Unfiltered		LAS
RD-07		Primary	08/25/97	Lead-210	40 U	400	560	Filtered		LAS
RD-07		Primary	08/25/97	Lead-210	-60 U	110	180	Unfiltered		LAS
RD-07		Primary	08/25/97	Lead-212	0.6 U	5.9	8.8	Filtered		LAS
RD-07		Primary	08/25/97	Lead-212	3 U	11	15	Unfiltered		LAS
RD-07		Primary	08/25/97	Lead-214	43.6	9.3	11	Filtered		LAS
RD-07		Primary	08/25/97	Lead-214	51	15	18	Unfiltered		LAS
RD-07		Primary	08/25/97	Potassium-40	16 U	33	50	Filtered		LAS
RD-07		Primary	08/25/97	Potassium-40	2 U	67	110	Unfiltered		LAS
RD-07		Primary	08/25/97	Thallium-208	3.4 U	3.4	4.5	Filtered		LAS
RD-07		Primary	08/25/97	Thallium-208	-0.8 U	6.9	10	Unfiltered		LAS
RD-07		Primary	08/25/97	Thorium-234	35 U	62	97	Filtered		LAS
RD-07		Primary	08/25/97	Thorium-234	1 U	70	130	Unfiltered		LAS
RD-07		Primary	02/06/99	Actinium-228	29.5 U	---	29.5	Filtered		TN
RD-07		Primary	02/06/99	Bismuth-212	45.1 U	---	45.1	Filtered		TN
RD-07		Primary	02/06/99	Bismuth-214	11.8 U	---	11.8	Filtered		TN
RD-07		Primary	02/06/99	Lead-210	280 U	---	280	Filtered		TN
RD-07		Primary	02/06/99	Lead-212	10.6 U	---	10.6	Filtered		TN
RD-07		Primary	02/06/99	Lead-214	11.7 U	---	11.7	Filtered		TN
RD-07		Primary	02/06/99	Potassium-40	148 U	---	148	Filtered		TN
RD-07		Primary	02/06/99	Radium-226	134 U	---	134	Filtered		TN
RD-07		Primary	02/06/99	Thallium-208	6.53 U	---	6.53	Filtered		TN

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-07		Primary	02/06/99	Thorium-234	182 U	---	182	Filtered		TN
RD-07		Primary	02/06/99	Uranium-235	34 U	---	34	Filtered		TN
RD-07		Primary	03/16/00	Actinium-228	46.8 U	---	46.8	Filtered		TR
RD-07		Primary	03/16/00	Bismuth-212	76.2 U	---	76.2	Filtered		TR
RD-07		Primary	03/16/00	Bismuth-214	40.9 U	---	40.9	Filtered		TR
RD-07		Primary	03/16/00	Lead-210	497 U	---	497	Filtered		TR
RD-07		Primary	03/16/00	Lead-212	17.8 U	---	17.8	Filtered		TR
RD-07		Primary	03/16/00	Lead-214	41 U	---	41	Filtered		TR
RD-07		Primary	03/16/00	Potassium-40	136 U	---	136	Filtered		TR
RD-07		Primary	03/16/00	Radium-226	179 U	---	179	Filtered		TR
RD-07		Primary	03/16/00	Thallium-208	10.2 U	---	10.2	Filtered		TR
RD-07		Primary	03/16/00	Thorium-234	268 U	---	268	Filtered		TR
RD-07		Primary	03/16/00	Uranium-235	54.6 U	---	54.6	Filtered		TR
RD-07		Primary	02/23/01	Actinium-228	46.4 U	---	46.4	Filtered		ES
RD-07		Primary	02/23/01	Bismuth-212	77.5 U	---	77.5	Filtered		ES
RD-07		Primary	02/23/01	Bismuth-214	172	25	23.6	Filtered		ES
RD-07		Primary	02/23/01	Lead-210	2470 U	---	2470	Filtered		ES
RD-07		Primary	02/23/01	Lead-212	16.4 U	---	16.4	Filtered		ES
RD-07		Primary	02/23/01	Lead-214	179	20	20.3	Filtered		ES
RD-07		Primary	02/23/01	Potassium-40	185 U	---	185	Filtered		ES
RD-07		Primary	02/23/01	Radium-226	239 U	---	239	Filtered		ES
RD-07		Primary	02/23/01	Thallium-208	10 U	---	10	Filtered		ES
RD-07		Primary	02/23/01	Thorium-234	334 U	---	334	Filtered		ES
RD-07		Primary	02/23/01	Uranium-235	58.5 U	---	58.5	Filtered		ES
RD-07		Primary	02/22/02	Actinium-228	5 U	3	5	Filtered		DL
RD-07		Primary	02/22/02	Bismuth-212	3 U	3	3	Filtered		DL
RD-07		Primary	02/22/02	Bismuth-214	3 U	3	3	Filtered		DL
RD-07		Primary	02/22/02	Lead-210	5 U	5	5	Filtered		DL
RD-07		Primary	02/22/02	Lead-212	3 U	3	3	Filtered		DL
RD-07		Primary	02/22/02	Lead-214	5 U	3	5	Filtered		DL
RD-07		Primary	02/22/02	Potassium-40	5 U	3	5	Filtered		DL
RD-07		Primary	02/22/02	Radium-226	3 U	3	3	Filtered		DL
RD-07		Primary	02/22/02	Thorium-234	5 U	5	5	Filtered		DL
RD-07		Primary	02/22/02	Uranium-235	5 U	3	5	Filtered		DL
RD-07	Z3	Primary	01/29/03	Actinium-228	6.45 U	---	6.45	Filtered		ES
RD-07	Z3	Primary	01/29/03	Bismuth-212	9.4 U	---	9.4	Filtered		ES
RD-07	Z3	Primary	01/29/03	Bismuth-214	2.78 U	---	2.78	Filtered		ES
RD-07	Z3	Primary	01/29/03	Lead-210	99.1 U	---	99.1	Filtered		ES
RD-07	Z3	Primary	01/29/03	Lead-212	1.77 U	---	1.77	Filtered		ES
RD-07	Z3	Primary	01/29/03	Lead-214	2.6 U	---	2.6	Filtered		ES
RD-07	Z3	Primary	01/29/03	Potassium-40	37.7 U	---	37.7	Filtered		ES
RD-07	Z3	Primary	01/29/03	Radium-226	19.1 U	---	19.1	Filtered		ES
RD-07	Z3	Primary	01/29/03	Thorium-234	20.9 U	---	20.9	Filtered		ES
RD-07	Z3	Primary	01/29/03	Uranium-235	6.09 U	---	6.09	Filtered		ES
RD-07	Z3	Primary	02/17/05	Potassium-40	39.3 U	---	39.3	Filtered		ES

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-07	Z3	Primary	02/16/06	Potassium-40	45.8 U	---	45.8	Filtered		ES
RD-07	Z3	Primary	02/08/07	Potassium-40	27.3 U	---	27.3	Filtered		ES
RD-07	Z3	Primary	02/05/08	Potassium-40	12.5 U	---	12.5	Filtered		ES
RD-13		Primary	08/26/97	Actinium-228	-3 U	24	43	Filtered		LAS
RD-13		Primary	08/26/97	Actinium-228	-9 U	24	46	Unfiltered		LAS
RD-13		Primary	08/26/97	Bismuth-212	-16 U	38	74	Filtered		LAS
RD-13		Primary	08/26/97	Bismuth-212	-25 U	35	70	Unfiltered		LAS
RD-13		Primary	08/26/97	Bismuth-214	40	16	18	Filtered		LAS
RD-13		Primary	08/26/97	Bismuth-214	48	17	18	Unfiltered		LAS
RD-13		Primary	08/26/97	Lead-210	50 U	120	180	Filtered		LAS
RD-13		Primary	08/26/97	Lead-210	60 U	110	170	Unfiltered		LAS
RD-13		Primary	08/26/97	Lead-212	-7 U	11	17	Filtered		LAS
RD-13		Primary	08/26/97	Lead-212	3 U	10	15	Unfiltered		LAS
RD-13		Primary	08/26/97	Lead-214	35	14	17	Filtered		LAS
RD-13		Primary	08/26/97	Lead-214	34	14	19	Unfiltered		LAS
RD-13		Primary	08/26/97	Potassium-40	-32 U	72	130	Filtered		LAS
RD-13		Primary	08/26/97	Potassium-40	75 U	75	94	Unfiltered		LAS
RD-13		Primary	08/26/97	Thallium-208	-0.7 U	6.7	9.8	Filtered		LAS
RD-13		Primary	08/26/97	Thallium-208	4.2 U	7.3	9.9	Unfiltered		LAS
RD-13		Primary	08/26/97	Thorium-234	23 U	71	140	Filtered		LAS
RD-13		Primary	08/26/97	Thorium-234	32 U	75	140	Unfiltered		LAS
RD-15		Primary	05/10/01	Actinium-228	57.5 U	---	57.5	Filtered		ES
RD-15		Primary	05/10/01	Bismuth-212	102 U	---	102	Filtered		ES
RD-15		Primary	05/10/01	Bismuth-214	23.9 U	---	23.9	Filtered		ES
RD-15		Primary	05/10/01	Lead-210	842 U	---	842	Filtered		ES
RD-15		Primary	05/10/01	Lead-212	18.8 U	---	18.8	Filtered		ES
RD-15		Primary	05/10/01	Lead-214	23.9 U	---	23.9	Filtered		ES
RD-15		Primary	05/10/01	Potassium-40	210 U	---	210	Filtered		ES
RD-15		Primary	05/10/01	Radium-226	179 U	---	179	Filtered		ES
RD-15		Primary	05/10/01	Thallium-208	12.8 U	---	12.8	Filtered		ES
RD-15		Primary	05/10/01	Thorium-234	270 U	---	270	Filtered		ES
RD-15		Primary	05/10/01	Uranium-235	61.5 U	---	61.5	Filtered		ES
RD-15		Primary	03/06/02	Actinium-228	7.53 U	3.28	7.53	Filtered		DL
RD-15		Primary	03/06/02	Bismuth-212	3 U	3	3	Filtered		DL
RD-15		Primary	03/06/02	Bismuth-214	3 U	3	3	Filtered		DL
RD-15		Primary	03/06/02	Lead-210	5 U	5	5	Filtered		DL
RD-15		Primary	03/06/02	Lead-212	3 U	3	3	Filtered		DL
RD-15		Primary	03/06/02	Lead-214	3 U	3	3	Filtered		DL
RD-15		Primary	03/06/02	Potassium-40	5 U	3	5	Filtered		DL
RD-15		Primary	03/06/02	Radium-226	3 U	3	3	Filtered		DL
RD-15		Primary	03/06/02	Thorium-234	10 U	8.453	10	Filtered		DL
RD-15		Primary	03/06/02	Uranium-235	1 U	---	1	Filtered		DL
RD-15		Primary	02/26/03	Actinium-228	3.4 U	---	3.4	Filtered		ES
RD-15		Primary	02/26/03	Bismuth-212	4.94 U	---	4.94	Filtered		ES
RD-15		Primary	02/26/03	Bismuth-214	1.44 U	---	1.44	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-15		Primary	02/26/03	Lead-210	177 U	---	177	Filtered		ES
RD-15		Primary	02/26/03	Lead-212	0.888 U	---	0.888	Filtered		ES
RD-15		Primary	02/26/03	Lead-214	1.35 U	---	1.35	Filtered		ES
RD-15		Primary	02/26/03	Potassium-40	14.4 U	---	14.4	Filtered		ES
RD-15		Primary	02/26/03	Radium-226	11.1 U	---	11.1	Filtered		ES
RD-15		Primary	02/26/03	Thorium-234	26.6 U	---	26.6	Filtered		ES
RD-15		Primary	02/26/03	Uranium-235	4.99 U	---	4.99	Filtered		ES
RD-15		Primary	02/24/04	Actinium-228	43.7 U	---	43.7	Filtered		ES
RD-15		Primary	02/24/04	Bismuth-212	78.4 U	---	78.4	Filtered		ES
RD-15		Primary	02/24/04	Bismuth-214	19.3 U	---	19.3	Filtered		ES
RD-15		Primary	02/24/04	Lead-210	648 U	---	648	Filtered		ES
RD-15		Primary	02/24/04	Lead-212	14.6 U	---	14.6	Filtered		ES
RD-15		Primary	02/24/04	Lead-214	18.4 U	---	18.4	Filtered		ES
RD-15		Primary	02/24/04	Potassium-40	256 U	---	256	Filtered		ES
RD-15		Primary	02/24/04	Radium-226	128 U	---	128	Filtered		ES
RD-15		Primary	02/24/04	Thallium-208	9.89 U	---	9.89	Filtered		ES
RD-15		Primary	02/24/04	Thorium-234	206 U	---	206	Filtered		ES
RD-15		Primary	02/24/04	Uranium-235	47.2 U	---	47.2	Filtered		ES
RD-15		Primary	02/14/05	Potassium-40	29.1 U	---	29.1	Filtered		ES
RD-15		Primary	02/16/06	Potassium-40	22.3 U	---	22.3	Filtered		ES
RD-15		Split	02/16/06	Potassium-40	-15.1 U	43	82.9	Filtered		STL
RD-15		Primary	02/06/07	Potassium-40	28.5 U	---	28.5	Filtered		ES
RD-15		Primary	02/20/08	Potassium-40	41.3 U	---	41.3	Filtered		ES
RD-16		Primary	05/27/98	Actinium-228	64.4 U	---	64.4	Filtered		TN
RD-16		Primary	05/27/98	Bismuth-212	114 U	---	114	Filtered		TN
RD-16		Primary	05/27/98	Bismuth-214	28.9 U	---	28.9	Filtered		TN
RD-16		Primary	05/27/98	Lead-210	130 U	---	130	Filtered		TN
RD-16		Primary	05/27/98	Lead-212	18.1 U	---	18.1	Filtered		TN
RD-16		Primary	05/27/98	Lead-214	28.4 U	---	28.4	Filtered		TN
RD-16		Primary	05/27/98	Potassium-40	174 U	---	174	Filtered		TN
RD-16		Primary	05/27/98	Thallium-208	24.3 U	---	24.3	Filtered		TN
RD-16		Primary	05/27/98	Thorium-234	235 U	---	235	Filtered		TN
RD-17		Primary	02/08/99	Actinium-228	45.9 U	---	45.9	Filtered		TN
RD-17		Primary	02/08/99	Bismuth-212	85.6 U	---	85.6	Filtered		TN
RD-17		Primary	02/08/99	Lead-210	148 U	---	148	Filtered		TN
RD-17		Primary	02/08/99	Lead-212	12.4 U	---	12.4	Filtered		TN
RD-17		Primary	02/08/99	Lead-214	18.9 U	---	18.9	Filtered		TN
RD-17		Primary	02/08/99	Potassium-40	135 U	---	135	Filtered		TN
RD-17		Primary	02/08/99	Radium-226	129 U	---	129	Filtered		TN
RD-17		Primary	02/08/99	Thallium-208	9.91 U	---	9.91	Filtered		TN
RD-17		Primary	02/08/99	Thorium-234	159 U	---	159	Filtered		TN
RD-17		Primary	02/08/99	Uranium-235	33.1 U	---	33.1	Filtered		TN
RD-17		Primary	02/21/00	Actinium-228	68.6 U	---	68.6	Filtered		TR
RD-17		Primary	02/21/00	Bismuth-212	119 U	---	119	Filtered		TR
RD-17		Primary	02/21/00	Bismuth-214	29 U	---	29	Filtered		TR

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-17		Primary	02/21/00	Lead-210	1010 U	---	1010	Filtered		TR
RD-17		Primary	02/21/00	Lead-212	20.2 U	---	20.2	Filtered		TR
RD-17		Primary	02/21/00	Lead-214	25.6 U	---	25.6	Filtered		TR
RD-17		Primary	02/21/00	Potassium-40	244 U	---	244	Filtered		TR
RD-17		Primary	02/21/00	Radium-226	194 U	---	194	Filtered		TR
RD-17		Primary	02/21/00	Thallium-208	16.4 U	---	16.4	Filtered		TR
RD-17		Primary	02/21/00	Thorium-234	322 U	---	322	Filtered		TR
RD-17		Primary	02/21/00	Uranium-235	81.3 U	---	81.3	Filtered		TR
RD-17		Primary	02/14/01	Actinium-228	63.8 U	---	63.8	Filtered		ES
RD-17		Primary	02/14/01	Bismuth-212	119 U	---	119	Filtered		ES
RD-17		Primary	02/14/01	Bismuth-214	125	32	32.2	Filtered		ES
RD-17		Primary	02/14/01	Lead-210	1080 U	---	1080	Filtered		ES
RD-17		Primary	02/14/01	Lead-212	23.1 U	---	23.1	Filtered		ES
RD-17		Primary	02/14/01	Lead-214	112	31	36.8	Filtered		ES
RD-17		Primary	02/14/01	Potassium-40	244 U	---	244	Filtered		ES
RD-17		Primary	02/14/01	Radium-226	268	210	260	Filtered		ES
RD-17		Primary	02/14/01	Thallium-208	17.2 U	---	17.2	Filtered		ES
RD-17		Primary	02/14/01	Thorium-234	350 U	---	350	Filtered		ES
RD-17		Primary	02/14/01	Uranium-235	78.3 U	---	78.3	Filtered		ES
RD-17		Primary	03/01/02	Actinium-228	5 U	5	5	Filtered		DL
RD-17		Primary	03/01/02	Bismuth-212	5 U	3	5	Filtered		DL
RD-17		Primary	03/01/02	Bismuth-214	5 U	3	5	Filtered		DL
RD-17		Primary	03/01/02	Lead-210	5 U	3	5	Filtered		DL
RD-17		Primary	03/01/02	Lead-212	5 U	3	5	Filtered		DL
RD-17		Primary	03/01/02	Lead-214	5 U	3	5	Filtered		DL
RD-17		Primary	03/01/02	Potassium-40	22.46	6.67	10	Filtered		DL
RD-17		Primary	03/01/02	Radium-226	5 U	5	5	Filtered		DL
RD-17		Primary	03/01/02	Thorium-234	5 U	5	5	Filtered		DL
RD-17		Primary	03/01/02	Uranium-235	5 U	3	5	Filtered		DL
RD-17		Primary	02/24/03	Actinium-228	7.5 U	---	7.5	Filtered		ES
RD-17		Primary	02/24/03	Bismuth-212	12.4 U	---	12.4	Filtered		ES
RD-17		Primary	02/24/03	Bismuth-214	3.55 U	---	3.55	Filtered		ES
RD-17		Primary	02/24/03	Lead-210	335 U	---	335	Filtered		ES
RD-17		Primary	02/24/03	Lead-212	2.43 U	---	2.43	Filtered		ES
RD-17		Primary	02/24/03	Lead-214	3.3 U	---	3.3	Filtered		ES
RD-17		Primary	02/24/03	Potassium-40	40.9 U	---	40.9	Filtered		ES
RD-17		Primary	02/24/03	Radium-226	24.1 U	---	24.1	Filtered		ES
RD-17		Primary	02/24/03	Thorium-234	47.8 U	---	47.8	Filtered		ES
RD-17		Primary	02/24/03	Uranium-235	9.44 U	---	9.44	Filtered		ES
RD-17		Primary	02/23/04	Actinium-228	42.4 U	---	42.4	Filtered		ES
RD-17		Primary	02/23/04	Bismuth-212	77.6 U	---	77.6	Filtered		ES
RD-17		Primary	02/23/04	Bismuth-214	22 U	---	22	Filtered		ES
RD-17		Primary	02/23/04	Lead-210	187 U	---	187	Filtered		ES
RD-17		Primary	02/23/04	Lead-212	15.9 U	---	15.9	Filtered		ES
RD-17		Primary	02/23/04	Lead-214	48.8 U	---	48.8	Filtered		ES

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-17		Primary	02/23/04	Potassium-40	200 U	---	200	Filtered		ES
RD-17		Primary	02/23/04	Radium-226	154 U	---	154	Filtered		ES
RD-17		Primary	02/23/04	Thallium-208	10.3 U	---	10.3	Filtered		ES
RD-17		Primary	02/23/04	Thorium-234	195 U	---	195	Filtered		ES
RD-17		Primary	02/23/04	Uranium-235	59.2 U	---	59.2	Filtered		ES
RD-17		Primary	02/15/05	Potassium-40	31.5 U	---	31.5	Filtered		ES
RD-17		Primary	02/16/06	Potassium-40	48.1 U	---	48.1	Filtered		ES
RD-17		Primary	02/06/07	Potassium-40	21.4 U	---	21.4	Filtered		ES
RD-17		Split	02/06/07	Potassium-40	-19.7 U	26	36.9	Filtered		STL
RD-17		Primary	02/22/08	Potassium-40	9.5 U	---	9.5	Filtered		ES
RD-21		Primary	11/06/93	Actinium-228	15.9 U	---	15.9	Filtered		LAS
RD-21		Primary	11/06/93	Bismuth-212	64.4 U	---	64.4	Filtered		LAS
RD-21		Primary	11/06/93	Bismuth-214	62.007	8.32	---	Filtered		LAS
RD-21		Primary	11/06/93	Lead-210	97.6 U	---	97.6	Filtered		LAS
RD-21		Primary	11/06/93	Lead-212	8.91 U	---	8.91	Filtered		LAS
RD-21		Primary	11/06/93	Lead-214	62.923	8.81	---	Filtered		LAS
RD-21		Primary	11/06/93	Potassium-40	49.7 U	---	49.7	Filtered		LAS
RD-21		Primary	11/06/93	Thallium-208	4.72 U	---	4.72	Filtered		LAS
RD-21		Primary	11/06/93	Thorium-234	91.8 U	---	91.8	Filtered		LAS
RD-21		Primary	11/06/93	Uranium-235	5.3 U	---	5.3	Filtered		LAS
RD-21		Primary	02/25/94	Actinium-228	-3.2 U	3.8	14	Filtered		LAS
RD-21		Primary	02/25/94	Bismuth-214	1.1 U	2.7	8.3	Filtered		LAS
RD-21		Primary	02/25/94	Lead-212	7.4	5.1	6.9	Filtered		LAS
RD-21		Primary	02/25/94	Lead-214	0.2 U	2.4	7.8	Filtered		LAS
RD-21		Primary	02/25/94	Potassium-40	-8 U	27	44	Filtered		LAS
RD-21		Primary	02/25/94	Radium-226	-21 U	48	69	Filtered		LAS
RD-21		Primary	02/25/94	Thallium-208	4.4	3	3.8	Filtered		LAS
RD-21		Primary	02/25/94	Thorium-234	-20 U	19	100	Filtered		LAS
RD-21		Primary	02/25/94	Uranium-235	-2.8 U	3	19	Filtered		LAS
RD-21		Primary	08/08/94	Actinium-228	12 U	18	29	Filtered		LAS
RD-21		Primary	08/08/94	Bismuth-214	-6 U	10	18	Filtered		LAS
RD-21		Primary	08/08/94	Lead-212	1.6 U	8.6	12	Filtered		LAS
RD-21		Primary	08/08/94	Lead-214	14.1	9.9	14	Filtered		LAS
RD-21		Primary	08/08/94	Potassium-40	15 U	59	82	Filtered		LAS
RD-21		Primary	08/08/94	Radium-226	40 U	100	140	Filtered		LAS
RD-21		Primary	08/08/94	Thallium-208	2.3 U	7	9	Filtered		LAS
RD-21		Primary	08/08/94	Thorium-234	4 U	55	120	Filtered		LAS
RD-21		Primary	08/08/94	Uranium-235	3 U	23	32	Filtered		LAS
RD-21		Primary	02/08/95	Actinium-228	1 U	23	42	Filtered		LAS
RD-21		Primary	02/08/95	Bismuth-214	47	18	20	Filtered		LAS
RD-21		Primary	02/08/95	Lead-212	11 U	12	16	Filtered		LAS
RD-21		Primary	02/08/95	Lead-214	41	14	19	Filtered		LAS
RD-21		Primary	02/08/95	Potassium-40	-14 U	75	130	Filtered		LAS
RD-21		Primary	02/08/95	Thallium-208	5.1 U	8.7	12	Filtered		LAS
RD-21		Primary	02/08/95	Thorium-234	0 U	110	170	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-21		Primary	08/31/95	Actinium-228	16 U	22	39	Filtered		LAS
RD-21		Primary	08/31/95	Bismuth-214	150	29	21	Filtered		LAS
RD-21		Primary	08/31/95	Lead-212	1 U	11	16	Filtered		LAS
RD-21		Primary	08/31/95	Lead-214	160	23	21	Filtered		LAS
RD-21		Primary	08/31/95	Potassium-40	11 U	66	100	Filtered		LAS
RD-21		Primary	08/31/95	Thallium-208	-1.2 U	7.9	12	Filtered		LAS
RD-21		Primary	08/31/95	Thorium-234	-19 U	73	180	Filtered		LAS
RD-21		Primary	02/16/96	Actinium-228	12 U	22	36	Filtered		LAS
RD-21		Primary	02/16/96	Bismuth-214	28	16	20	Filtered		LAS
RD-21		Primary	02/16/96	Lead-212	4.5 U	9.9	14	Filtered		LAS
RD-21		Primary	02/16/96	Lead-214	46	14	18	Filtered		LAS
RD-21		Primary	02/16/96	Potassium-40	-17 U	66	110	Filtered		LAS
RD-21		Primary	02/16/96	Thallium-208	-0.7 U	6.8	10	Filtered		LAS
RD-21		Primary	02/16/96	Thorium-234	20 U	120	190	Filtered		LAS
RD-21		Primary	08/18/96	Actinium-228	4 U	19	38	Filtered		LAS
RD-21		Primary	08/18/96	Bismuth-214	94	23	20	Filtered		LAS
RD-21		Primary	08/18/96	Lead-212	5.7 U	9.8	14	Filtered		LAS
RD-21		Primary	08/18/96	Lead-214	92	18	19	Filtered		LAS
RD-21		Primary	08/18/96	Potassium-40	-21 U	56	100	Filtered		LAS
RD-21		Primary	08/18/96	Thallium-208	4.2 U	7.2	9.7	Filtered		LAS
RD-21		Primary	08/18/96	Thorium-234	-40 U	130	200	Filtered		LAS
RD-21		Primary	02/06/97	Actinium-228	5 U	27	43	Filtered		LAS
RD-21		Primary	02/06/97	Bismuth-214	88	23	23	Filtered		LAS
RD-21		Primary	02/06/97	Lead-212	0 U	11	16	Filtered		LAS
RD-21		Primary	02/06/97	Lead-214	109	20	18	Filtered		LAS
RD-21		Primary	02/06/97	Potassium-40	-42 U	95	150	Filtered		LAS
RD-21		Primary	02/06/97	Thallium-208	2.1 U	8.8	12	Filtered		LAS
RD-21		Primary	02/06/97	Thorium-234	-2 U	83	220	Filtered		LAS
RD-21		Primary	02/09/98	Actinium-228	24.8 U	---	24.8	Filtered		TN
RD-21		Primary	02/09/98	Bismuth-212	43.5 U	---	43.5	Filtered		TN
RD-21		Primary	02/09/98	Bismuth-214	19.8	13	---	Filtered		TN
RD-21		Primary	02/09/98	Lead-210	470	280	---	Filtered		TN
RD-21		Primary	02/09/98	Lead-212	10.3 U	---	10.3	Filtered		TN
RD-21		Primary	02/09/98	Lead-214	16.7 U	---	16.7	Filtered		TN
RD-21		Primary	02/09/98	Potassium-40	77.2 U	---	77.2	Filtered		TN
RD-21		Primary	02/09/98	Thallium-208	6.26 U	---	6.26	Filtered		TN
RD-21		Primary	02/09/98	Thorium-234	167 U	---	167	Filtered		TN
RD-21		Primary	02/16/99	Actinium-228	73.4 U	---	73.4	Filtered		TN
RD-21		Primary	02/16/99	Bismuth-212	119 U	---	119	Filtered		TN
RD-21		Primary	02/16/99	Bismuth-214	28.1 U	---	28.1	Filtered		TN
RD-21		Primary	02/16/99	Lead-210	779 U	---	779	Filtered		TN
RD-21		Primary	02/16/99	Lead-212	22.2 U	---	22.2	Filtered		TN
RD-21		Primary	02/16/99	Lead-214	26.4 U	---	26.4	Filtered		TN
RD-21		Primary	02/16/99	Potassium-40	277 U	---	277	Filtered		TN
RD-21		Primary	02/16/99	Radium-226	214 U	---	214	Filtered		TN

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-21		Primary	02/16/99	Thallium-208	20.7 U	---	20.7	Filtered		TN
RD-21		Primary	02/16/99	Thorium-234	333 U	---	333	Filtered		TN
RD-21		Primary	02/16/99	Uranium-235	81.2 U	---	81.2	Filtered		TN
RD-21		Primary	03/15/00	Actinium-228	75.5 U	---	75.5	Filtered		TR
RD-21		Primary	03/15/00	Bismuth-212	113 U	---	113	Filtered		TR
RD-21		Primary	03/15/00	Bismuth-214	33 U	---	33	Filtered		TR
RD-21		Primary	03/15/00	Lead-210	582 U	---	582	Filtered		TR
RD-21		Primary	03/15/00	Lead-212	21.2 U	---	21.2	Filtered		TR
RD-21		Primary	03/15/00	Lead-214	30.3 U	---	30.3	Filtered		TR
RD-21		Primary	03/15/00	Potassium-40	440 U	---	440	Filtered		TR
RD-21		Primary	03/15/00	Radium-226	220 U	---	220	Filtered		TR
RD-21		Primary	03/15/00	Thallium-208	16.2 U	---	16.2	Filtered		TR
RD-21		Primary	03/15/00	Thorium-234	240 U	---	240	Filtered		TR
RD-21		Primary	03/15/00	Uranium-235	80.7 U	---	80.7	Filtered		TR
RD-21		Primary	10/24/01	Actinium-228	7 U	---	7	Filtered		DL
RD-21		Primary	10/24/01	Bismuth-212	6.2 U	7	7	Filtered		DL
RD-21		Primary	10/24/01	Bismuth-214	10 U	---	10	Filtered		DL
RD-21		Primary	10/24/01	Lead-210	7 U	---	7	Filtered		DL
RD-21		Primary	10/24/01	Lead-212	6.2 U	7	7	Filtered		DL
RD-21		Primary	10/24/01	Lead-214	10 U	---	10	Filtered		DL
RD-21		Primary	10/24/01	Potassium-40	340	148	220	Filtered		DL
RD-21		Primary	10/24/01	Radium-226	0.6 U	2.2	3	Filtered		DL
RD-21		Primary	10/24/01	Thallium-208	5 U	---	5	Filtered		DL
RD-21		Primary	10/24/01	Thorium-234	3.4 U	1.5	5	Filtered		DL
RD-21		Primary	10/24/01	Uranium-235	5 U	---	5	Filtered		DL
RD-21		Primary	03/06/02	Actinium-228	5 U	3	5	Filtered		DL
RD-21		Primary	03/06/02	Bismuth-212	3 U	3	3	Filtered		DL
RD-21		Primary	03/06/02	Bismuth-214	3 U	3	3	Filtered		DL
RD-21		Primary	03/06/02	Lead-210	5 U	5	5	Filtered		DL
RD-21		Primary	03/06/02	Lead-212	3 U	3	3	Filtered		DL
RD-21		Primary	03/06/02	Lead-214	5 U	3	5	Filtered		DL
RD-21		Primary	03/06/02	Potassium-40	5 U	3	5	Filtered		DL
RD-21		Primary	03/06/02	Radium-226	3 U	3	3	Filtered		DL
RD-21		Primary	03/06/02	Thorium-234	5 U	5	5	Filtered		DL
RD-21		Primary	03/06/02	Uranium-235	1 U	0.38	1	Filtered		DL
RD-21	Z2	Primary	02/25/03	Actinium-228	10.2 U	---	10.2	Filtered		ES
RD-21	Z2	Primary	02/25/03	Bismuth-212	14.4 U	---	14.4	Filtered		ES
RD-21	Z2	Primary	02/25/03	Bismuth-214	4.6 U	---	4.6	Filtered		ES
RD-21	Z2	Primary	02/25/03	Lead-210	182 U	---	182	Filtered		ES
RD-21	Z2	Primary	02/25/03	Lead-212	2.94 U	---	2.94	Filtered		ES
RD-21	Z2	Primary	02/25/03	Lead-214	4.22 U	---	4.22	Filtered		ES
RD-21	Z2	Primary	02/25/03	Potassium-40	62.2 U	---	62.2	Filtered		ES
RD-21	Z2	Primary	02/25/03	Radium-226	31.1 U	---	31.1	Filtered		ES
RD-21	Z2	Primary	02/25/03	Thorium-234	33.9 U	---	33.9	Filtered		ES
RD-21	Z2	Primary	02/25/03	Uranium-235	10.3 U	---	10.3	Filtered		ES

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-21	Z2	Primary	11/04/04	Potassium-40	36 U	---	36	Filtered		ES
RD-21	Z2	Primary	02/16/05	Potassium-40	26.3 U	---	26.3	Filtered		ES
RD-21	Z2	Primary	02/16/06	Potassium-40	21.6 U	---	21.6	Filtered		ES
RD-21	Z2	Primary	05/21/07	Potassium-40	7.14 U	---	7.14	Filtered		ES
RD-21	Z2	Primary	02/05/08	Potassium-40	21.8 U	---	21.8	Filtered		ES
RD-22		Primary	11/21/93	Actinium-228	18.3 U	---	18.3	Filtered		LAS
RD-22		Primary	11/21/93	Bismuth-212	65.5 U	---	65.5	Filtered		LAS
RD-22		Primary	11/21/93	Bismuth-214	11 U	---	11	Filtered		LAS
RD-22		Primary	11/21/93	Lead-210	102 U	---	102	Filtered		LAS
RD-22		Primary	11/21/93	Lead-212	6.4687	5.4	---	Filtered		LAS
RD-22		Primary	11/21/93	Lead-214	10.4 U	---	10.4	Filtered		LAS
RD-22		Primary	11/21/93	Potassium-40	70.8 U	---	70.8	Filtered		LAS
RD-22		Primary	11/21/93	Thallium-208	5.78 U	---	5.78	Filtered		LAS
RD-22		Primary	11/21/93	Thorium-234	105 U	---	105	Filtered		LAS
RD-22		Primary	11/21/93	Uranium-235	5.79 U	---	5.79	Filtered		LAS
RD-22		Primary	02/24/94	Actinium-228	-1.4 U	3.8	14	Filtered		LAS
RD-22		Primary	02/24/94	Bismuth-214	9	3	8.2	Filtered		LAS
RD-22		Primary	02/24/94	Lead-212	4.4 U	4.9	6.8	Filtered		LAS
RD-22		Primary	02/24/94	Lead-214	9.8	2.6	7.7	Filtered		LAS
RD-22		Primary	02/24/94	Potassium-40	-1 U	27	43	Filtered		LAS
RD-22		Primary	02/24/94	Radium-226	-17 U	50	71	Filtered		LAS
RD-22		Primary	02/24/94	Thallium-208	1.9 U	3	4	Filtered		LAS
RD-22		Primary	02/24/94	Thorium-234	24 U	19	100	Filtered		LAS
RD-22		Primary	02/24/94	Uranium-235	7.2 U	6.4	19	Filtered		LAS
RD-22		Primary	08/09/94	Actinium-228	4.6 U	9.9	18	Filtered		LAS
RD-22		Primary	08/09/94	Bismuth-214	2.7 U	6.7	10	Filtered		LAS
RD-22		Primary	08/09/94	Lead-212	1.5 U	5.9	8.3	Filtered		LAS
RD-22		Primary	08/09/94	Lead-214	6.6 U	5.9	9.2	Filtered		LAS
RD-22		Primary	08/09/94	Potassium-40	-3 U	35	56	Filtered		LAS
RD-22		Primary	08/09/94	Radium-226	-78 U	58	78	Filtered		LAS
RD-22		Primary	08/09/94	Thallium-208	1.9 U	3.6	5	Filtered		LAS
RD-22		Primary	08/09/94	Thorium-234	14 U	47	140	Filtered		LAS
RD-22		Primary	08/09/94	Uranium-235	3 U	17	24	Filtered		LAS
RD-22		Primary	02/17/95	Actinium-228	21 U	27	42	Filtered		LAS
RD-22		Primary	02/17/95	Bismuth-214	6 U	14	19	Filtered		LAS
RD-22		Primary	02/17/95	Lead-212	6 U	11	15	Filtered		LAS
RD-22		Primary	02/17/95	Lead-214	-5 U	13	21	Filtered		LAS
RD-22		Primary	02/17/95	Potassium-40	7 U	92	140	Filtered		LAS
RD-22		Primary	02/17/95	Thallium-208	2 U	7.9	11	Filtered		LAS
RD-22		Primary	02/17/95	Thorium-234	11 U	77	180	Filtered		LAS
RD-22		Primary	08/29/95	Actinium-228	-47 U	19	46	Filtered		LAS
RD-22		Primary	08/29/95	Bismuth-214	2 U	16	23	Filtered		LAS
RD-22		Primary	08/29/95	Lead-212	3 U	11	15	Filtered		LAS
RD-22		Primary	08/29/95	Lead-214	3 U	13	19	Filtered		LAS
RD-22		Primary	08/29/95	Potassium-40	48 U	86	110	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-22		Primary	08/29/95	Thallium-208	4.6 U	8.5	11	Filtered		LAS
RD-22		Primary	08/29/95	Thorium-234	-66 U	76	170	Filtered		LAS
RD-22		Primary	02/16/96	Actinium-228	3.6 U	9.7	17	Filtered		LAS
RD-22		Primary	02/16/96	Bismuth-214	4.3 U	6.5	9.7	Filtered		LAS
RD-22		Primary	02/16/96	Lead-212	3.4 U	5.9	8.6	Filtered		LAS
RD-22		Primary	02/16/96	Lead-214	5.2 U	6.1	9.2	Filtered		LAS
RD-22		Primary	02/16/96	Potassium-40	10 U	32	49	Filtered		LAS
RD-22		Primary	02/16/96	Thallium-208	-3.9 U	3.6	5.9	Filtered		LAS
RD-22		Primary	02/16/96	Thorium-234	22 U	63	230	Filtered		LAS
RD-22		Primary	08/18/96	Actinium-228	-1 U	23	43	Filtered		LAS
RD-22		Primary	08/18/96	Bismuth-214	11 U	13	20	Filtered		LAS
RD-22		Primary	08/18/96	Lead-212	7.5 U	9.8	13	Filtered		LAS
RD-22		Primary	08/18/96	Lead-214	10 U	11	17	Filtered		LAS
RD-22		Primary	08/18/96	Potassium-40	9 U	65	110	Filtered		LAS
RD-22		Primary	08/18/96	Thallium-208	2.5 U	5.5	7.2	Filtered		LAS
RD-22		Primary	08/18/96	Thorium-234	-50 U	70	190	Filtered		LAS
RD-22		Primary	02/26/97	Actinium-228	1 U	16	34	Filtered		LAS
RD-22		Primary	02/26/97	Bismuth-214	16 U	16	23	Filtered		LAS
RD-22		Primary	02/26/97	Lead-212	-1.8 U	9.7	14	Filtered		LAS
RD-22		Primary	02/26/97	Lead-214	36	13	14	Filtered		LAS
RD-22		Primary	02/26/97	Potassium-40	-11 U	71	120	Filtered		LAS
RD-22		Primary	02/26/97	Thallium-208	8 U	6.9	8.1	Filtered		LAS
RD-22		Primary	02/26/97	Thorium-234	42 U	72	180	Filtered		LAS
RD-22		Primary	05/28/98	Actinium-228	65.6 U	---	65.6	Filtered		TN
RD-22		Primary	05/28/98	Bismuth-212	118 U	---	118	Filtered		TN
RD-22		Primary	05/28/98	Bismuth-214	30.1 U	---	30.1	Filtered		TN
RD-22		Primary	05/28/98	Lead-210	792 U	---	792	Filtered		TN
RD-22		Primary	05/28/98	Lead-212	22.5 U	---	22.5	Filtered		TN
RD-22		Primary	05/28/98	Lead-214	28 U	---	28	Filtered		TN
RD-22		Primary	05/28/98	Potassium-40	246 U	---	246	Filtered		TN
RD-22		Primary	05/28/98	Thallium-208	13.5 U	---	13.5	Filtered		TN
RD-22		Primary	05/28/98	Thorium-234	318 U	---	318	Filtered		TN
RD-22		Primary	02/17/99	Actinium-228	27.2 U	---	27.2	Filtered		TN
RD-22		Primary	02/17/99	Bismuth-212	49.6 U	---	49.6	Filtered		TN
RD-22		Primary	02/17/99	Bismuth-214	12.8 U	---	12.8	Filtered		TN
RD-22		Primary	02/17/99	Lead-210	488 U	---	488	Filtered		TN
RD-22		Primary	02/17/99	Lead-212	11.8 U	---	11.8	Filtered		TN
RD-22		Primary	02/17/99	Lead-214	12.7 U	---	12.7	Filtered		TN
RD-22		Primary	02/17/99	Potassium-40	107 U	---	107	Filtered		TN
RD-22		Primary	02/17/99	Radium-226	110 U	---	110	Filtered		TN
RD-22		Primary	02/17/99	Thallium-208	6.78 U	---	6.78	Filtered		TN
RD-22		Primary	02/17/99	Thorium-234	195 U	---	195	Filtered		TN
RD-22		Primary	02/17/99	Uranium-235	35.6 U	---	35.6	Filtered		TN
RD-22		Primary	02/06/00	Actinium-228	56.2 U	---	56.2	Filtered		TR
RD-22		Primary	02/06/00	Bismuth-212	94.6 U	---	94.6	Filtered		TR

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-22		Primary	02/06/00	Bismuth-214	26.4 U	---	26.4	Filtered		TR
RD-22		Primary	02/06/00	Lead-210	482 U	---	482	Filtered		TR
RD-22		Primary	02/06/00	Lead-212	18.8 U	---	18.8	Filtered		TR
RD-22		Primary	02/06/00	Lead-214	25.1 U	---	25.1	Filtered		TR
RD-22		Primary	02/06/00	Potassium-40	335 U	---	335	Filtered		TR
RD-22		Primary	02/06/00	Radium-226	172 U	---	172	Filtered		TR
RD-22		Primary	02/06/00	Thallium-208	12.9 U	---	12.9	Filtered		TR
RD-22		Primary	02/06/00	Thorium-234	219 U	---	219	Filtered		TR
RD-22		Primary	02/06/00	Uranium-235	62.9 U	---	62.9	Filtered		TR
RD-22		Primary	02/16/01	Actinium-228	23.6 U	---	23.6	Filtered		ES
RD-22		Primary	02/16/01	Bismuth-212	42.4 U	---	42.4	Filtered		ES
RD-22		Primary	02/16/01	Bismuth-214	20.2 U	---	20.2	Filtered		ES
RD-22		Primary	02/16/01	Lead-210	422 U	---	422	Filtered		ES
RD-22		Primary	02/16/01	Lead-212	8.96 U	---	8.96	Filtered		ES
RD-22		Primary	02/16/01	Lead-214	20 U	---	20	Filtered		ES
RD-22		Primary	02/16/01	Potassium-40	74.4 U	---	74.4	Filtered		ES
RD-22		Primary	02/16/01	Radium-226	93.2 U	---	93.2	Filtered		ES
RD-22		Primary	02/16/01	Thallium-208	6.21 U	---	6.21	Filtered		ES
RD-22		Primary	02/16/01	Thorium-234	158 U	---	158	Filtered		ES
RD-22		Primary	02/16/01	Uranium-235	30.3 U	---	30.3	Filtered		ES
RD-22		Primary	02/20/02	Actinium-228	5 U	3	5	Filtered		DL
RD-22		Primary	02/20/02	Bismuth-212	3 U	3	3	Filtered		DL
RD-22		Primary	02/20/02	Bismuth-214	3 U	3	3	Filtered		DL
RD-22		Primary	02/20/02	Lead-210	5 U	5	5	Filtered		DL
RD-22		Primary	02/20/02	Lead-212	3 U	3	3	Filtered		DL
RD-22		Primary	02/20/02	Lead-214	5 U	3	5	Filtered		DL
RD-22		Primary	02/20/02	Potassium-40	5 U	3	5	Filtered		DL
RD-22		Primary	02/20/02	Radium-226	3 U	3	3	Filtered		DL
RD-22		Primary	02/20/02	Thorium-234	5 U	5	5	Filtered		DL
RD-22		Primary	02/20/02	Uranium-235	5 U	3	5	Filtered		DL
RD-22	Z2	Primary	02/24/03	Actinium-228	5.7 U	---	5.7	Filtered		ES
RD-22	Z2	Primary	02/24/03	Bismuth-212	10 U	---	10	Filtered		ES
RD-22	Z2	Primary	02/24/03	Bismuth-214	2.67 U	---	2.67	Filtered		ES
RD-22	Z2	Primary	02/24/03	Lead-210	249 U	---	249	Filtered		ES
RD-22	Z2	Primary	02/24/03	Lead-212	1.83 U	---	1.83	Filtered		ES
RD-22	Z2	Primary	02/24/03	Lead-214	2.41 U	---	2.41	Filtered		ES
RD-22	Z2	Primary	02/24/03	Potassium-40	16.5 U	---	16.5	Filtered		ES
RD-22	Z2	Primary	02/24/03	Radium-226	19.5 U	---	19.5	Filtered		ES
RD-22	Z2	Primary	02/24/03	Thorium-234	36.4 U	---	36.4	Filtered		ES
RD-22	Z2	Primary	02/24/03	Uranium-235	5.73 U	---	5.73	Filtered		ES
RD-22	Z2	Primary	11/12/04	Potassium-40	13.6 U	---	13.6	Filtered		ES
RD-22	Z2	Primary	02/17/05	Potassium-40	14.9 U	---	14.9	Filtered		ES
RD-22	Z2	Primary	02/15/06	Potassium-40	18.3 U	---	18.3	Filtered		ES
RD-22	Z2	Primary	02/07/07	Potassium-40	24.4 U	---	24.4	Filtered		ES
RD-22	Z2	Primary	02/05/08	Potassium-40	8.59 U	---	8.59	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-23		Primary	11/06/93	Actinium-228	8.23 U	---	8.23	Filtered		LAS
RD-23		Primary	11/06/93	Bismuth-212	22.5 U	---	22.5	Filtered		LAS
RD-23		Primary	11/06/93	Bismuth-214	10.499	2.75	---	Filtered		LAS
RD-23		Primary	11/06/93	Lead-210	265 U	---	265	Filtered		LAS
RD-23		Primary	11/06/93	Lead-212	4.63 U	---	4.63	Filtered		LAS
RD-23		Primary	11/06/93	Lead-214	7.6009	3.41	---	Filtered		LAS
RD-23		Primary	11/06/93	Potassium-40	25.1 U	---	25.1	Filtered		LAS
RD-23		Primary	11/06/93	Thallium-208	3.85 U	---	3.85	Filtered		LAS
RD-23		Primary	11/06/93	Thorium-234	95.7 U	---	95.7	Filtered		LAS
RD-23		Primary	11/06/93	Uranium-235	2.29 U	---	2.29	Filtered		LAS
RD-23		Primary	02/25/94	Actinium-228	3.9 U	3.9	14	Filtered		LAS
RD-23		Primary	02/25/94	Bismuth-214	3.1 U	3.7	8.1	Filtered		LAS
RD-23		Primary	02/25/94	Lead-212	19.2	5.9	7	Filtered		LAS
RD-23		Primary	02/25/94	Lead-214	16	2.9	8.3	Filtered		LAS
RD-23		Primary	02/25/94	Potassium-40	-1 U	28	44	Filtered		LAS
RD-23		Primary	02/25/94	Radium-226	24 U	52	70	Filtered		LAS
RD-23		Primary	02/25/94	Thallium-208	7.4	3.4	4.2	Filtered		LAS
RD-23		Primary	02/25/94	Thorium-234	5 U	19	100	Filtered		LAS
RD-23		Primary	02/25/94	Uranium-235	2.1 U	6.4	19	Filtered		LAS
RD-23		Primary	08/08/94	Actinium-228	1 U	13	25	Filtered		LAS
RD-23		Primary	08/08/94	Bismuth-214	20	10	14	Filtered		LAS
RD-23		Primary	08/08/94	Lead-212	0.7 U	7.6	11	Filtered		LAS
RD-23		Primary	08/08/94	Lead-214	22.5	8.9	13	Filtered		LAS
RD-23		Primary	08/08/94	Potassium-40	-16 U	47	82	Filtered		LAS
RD-23		Primary	08/08/94	Radium-226	-16 U	78	120	Filtered		LAS
RD-23		Primary	08/08/94	Thallium-208	4.5 U	4.8	6.8	Filtered		LAS
RD-23		Primary	08/08/94	Thorium-234	0 U	63	200	Filtered		LAS
RD-23		Primary	08/08/94	Uranium-235	-9 U	12	33	Filtered		LAS
RD-23		Primary	02/05/95	Actinium-228	1 U	21	37	Filtered		LAS
RD-23		Primary	02/05/95	Bismuth-214	30	16	20	Filtered		LAS
RD-23		Primary	02/05/95	Lead-212	3 U	11	16	Filtered		LAS
RD-23		Primary	02/05/95	Lead-214	17 U	12	18	Filtered		LAS
RD-23		Primary	02/05/95	Potassium-40	-23 U	71	120	Filtered		LAS
RD-23		Primary	02/05/95	Thallium-208	2.4 U	7.4	10	Filtered		LAS
RD-23		Primary	02/05/95	Thorium-234	10 U	67	160	Filtered		LAS
RD-23		Primary	08/03/95	Actinium-228	5 U	21	36	Filtered		LAS
RD-23		Primary	08/03/95	Bismuth-214	27	15	20	Filtered		LAS
RD-23		Primary	08/03/95	Lead-212	0.9 U	9.4	14	Filtered		LAS
RD-23		Primary	08/03/95	Lead-214	1 U	12	19	Filtered		LAS
RD-23		Primary	08/03/95	Potassium-40	26 U	71	100	Filtered		LAS
RD-23		Primary	08/03/95	Thallium-208	2 U	7.6	11	Filtered		LAS
RD-23		Primary	08/03/95	Thorium-234	31 U	66	150	Filtered		LAS
RD-23		Primary	02/16/96	Actinium-228	3 U	22	41	Filtered		LAS
RD-23		Primary	02/16/96	Bismuth-214	11.5	7.2	10	Filtered		LAS
RD-23		Primary	02/16/96	Lead-212	7 U	6.2	8.6	Filtered		LAS

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-23		Primary	02/16/96	Lead-214	9.9	6.6	9.7	Filtered		LAS
RD-23		Primary	02/16/96	Potassium-40	4 U	29	46	Filtered		LAS
RD-23		Primary	02/16/96	Thallium-208	0.9 U	3.4	5.1	Filtered		LAS
RD-23		Primary	02/16/96	Thorium-234	18 U	62	220	Filtered		LAS
RD-23		Primary	08/18/96	Actinium-228	4 U	18	35	Filtered		LAS
RD-23		Primary	08/18/96	Bismuth-214	13 U	14	20	Filtered		LAS
RD-23		Primary	08/18/96	Lead-212	-6.4 U	9.5	15	Filtered		LAS
RD-23		Primary	08/18/96	Lead-214	11 U	12	18	Filtered		LAS
RD-23		Primary	08/18/96	Potassium-40	27 U	70	110	Filtered		LAS
RD-23		Primary	08/18/96	Thallium-208	3.3 U	6.9	9.4	Filtered		LAS
RD-23		Primary	08/18/96	Thorium-234	-29 U	70	190	Filtered		LAS
RD-23		Primary	02/27/97	Actinium-228	3 U	10	20	Filtered		LAS
RD-23		Primary	02/27/97	Bismuth-214	12 U	14	21	Filtered		LAS
RD-23		Primary	02/27/97	Lead-212	5 U	10	5	Filtered		LAS
RD-23		Primary	02/27/97	Lead-214	16 U	12	18	Filtered		LAS
RD-23		Primary	02/27/97	Potassium-40	-23 U	57	100	Filtered		LAS
RD-23		Primary	02/27/97	Thallium-208	1.2 U	6.4	9.2	Filtered		LAS
RD-23		Primary	02/27/97	Thorium-234	-20 U	120	180	Filtered		LAS
RD-23		Primary	02/07/98	Actinium-228	30.2 U	---	30.2	Filtered		TN
RD-23		Primary	02/07/98	Bismuth-212	49.4 U	---	49.4	Filtered		TN
RD-23		Primary	02/07/98	Bismuth-214	12.9 U	---	12.9	Filtered		TN
RD-23		Primary	02/07/98	Lead-210	334	220	---	Filtered		TN
RD-23		Primary	02/07/98	Lead-212	10.5 U	---	10.5	Filtered		TN
RD-23		Primary	02/07/98	Lead-214	11.3 U	---	11.3	Filtered		TN
RD-23		Primary	02/07/98	Potassium-40	82.5 U	---	82.5	Filtered		TN
RD-23		Primary	02/07/98	Thallium-208	6.5 U	---	6.5	Filtered		TN
RD-23		Primary	02/07/98	Thorium-234	174 U	---	174	Filtered		TN
RD-23		Primary	02/08/99	Actinium-228	67.7 U	---	67.7	Filtered		TN
RD-23		Primary	02/08/99	Bismuth-212	112 U	---	112	Filtered		TN
RD-23		Primary	02/08/99	Lead-210	113 U	---	113	Filtered		TN
RD-23		Primary	02/08/99	Lead-212	19.2 U	---	19.2	Filtered		TN
RD-23		Primary	02/08/99	Lead-214	26 U	---	26	Filtered		TN
RD-23		Primary	02/08/99	Potassium-40	162 U	---	162	Filtered		TN
RD-23		Primary	02/08/99	Radium-226	178 U	---	178	Filtered		TN
RD-23		Primary	02/08/99	Thallium-208	13.1 U	---	13.1	Filtered		TN
RD-23		Primary	02/08/99	Thorium-234	211 U	---	211	Filtered		TN
RD-23		Primary	02/08/99	Uranium-235	51.9 U	---	51.9	Filtered		TN
RD-23		Primary	02/05/00	Actinium-228	26.8 U	---	26.8	Filtered		TR
RD-23		Primary	02/05/00	Bismuth-212	44.8 U	---	44.8	Filtered		TR
RD-23		Primary	02/05/00	Bismuth-214	11.1 U	---	11.1	Filtered		TR
RD-23		Primary	02/05/00	Lead-210	355 U	---	355	Filtered		TR
RD-23		Primary	02/05/00	Lead-212	12.5 U	---	12.5	Filtered		TR
RD-23		Primary	02/05/00	Lead-214	10.5 U	---	10.5	Filtered		TR
RD-23		Primary	02/05/00	Potassium-40	63.1 U	---	63.1	Filtered		TR
RD-23		Primary	02/05/00	Radium-226	86 U	---	86	Filtered		TR

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-23		Primary	02/05/00	Thallium-208	6.06 U	---	6.06	Filtered		TR
RD-23		Primary	02/05/00	Thorium-234	165 U	---	165	Filtered		TR
RD-23		Primary	02/05/00	Uranium-235	27.8 U	---	27.8	Filtered		TR
RD-23		Primary	10/25/01	Actinium-228	5.6 U	---	5.6	Filtered		DL
RD-23		Primary	10/25/01	Bismuth-212	5 U	---	5	Filtered		DL
RD-23		Primary	10/25/01	Bismuth-214	2.4 U	---	2.4	Filtered		DL
RD-23		Primary	10/25/01	Lead-210	8 U	---	8	Filtered		DL
RD-23		Primary	10/25/01	Lead-212	5 U	---	14	Filtered		DL
RD-23		Primary	10/25/01	Lead-214	5 U	---	5	Filtered		DL
RD-23		Primary	10/25/01	Potassium-40	13 U	---	13	Filtered		DL
RD-23		Primary	10/25/01	Radium-226	5 U	---	5	Filtered		DL
RD-23		Primary	10/25/01	Thallium-208	5 U	---	5	Filtered		DL
RD-23		Primary	10/25/01	Thorium-234	5 U	---	5	Filtered		DL
RD-23		Primary	10/25/01	Uranium-235	1.8 U	3	5	Filtered		DL
RD-23		Primary	03/01/02	Actinium-228	5 U	5	5	Filtered		DL
RD-23		Primary	03/01/02	Bismuth-212	5 U	3	5	Filtered		DL
RD-23		Primary	03/01/02	Bismuth-214	5 U	3	5	Filtered		DL
RD-23		Primary	03/01/02	Lead-210	5 U	3	5	Filtered		DL
RD-23		Primary	03/01/02	Lead-212	5 U	3	5	Filtered		DL
RD-23		Primary	03/01/02	Lead-214	5 U	3	5	Filtered		DL
RD-23		Primary	03/01/02	Potassium-40	25.64	5.57	10	Filtered		DL
RD-23		Primary	03/01/02	Radium-226	5 U	5	5	Filtered		DL
RD-23		Primary	03/01/02	Thorium-234	5 U	5	5	Filtered		DL
RD-23		Primary	03/01/02	Uranium-235	5 U	3	5	Filtered		DL
RD-23	Z1	Primary	02/26/03	Actinium-228	12.4 U	---	12.4	Filtered		ES
RD-23	Z1	Primary	02/26/03	Bismuth-212	20.9 U	---	20.9	Filtered		ES
RD-23	Z1	Primary	02/26/03	Bismuth-214	5.48 U	---	5.48	Filtered		ES
RD-23	Z1	Primary	02/26/03	Lead-210	197 U	---	197	Filtered		ES
RD-23	Z1	Primary	02/26/03	Lead-212	4.05 U	---	4.05	Filtered		ES
RD-23	Z1	Primary	02/26/03	Lead-214	5.26 U	---	5.26	Filtered		ES
RD-23	Z1	Primary	02/26/03	Potassium-40	116 U	---	116	Filtered		ES
RD-23	Z1	Primary	02/26/03	Radium-226	41.6 U	---	41.6	Filtered		ES
RD-23	Z1	Primary	02/26/03	Thorium-234	61.6 U	---	61.6	Filtered		ES
RD-23	Z1	Primary	02/26/03	Uranium-235	15.5 U	---	15.5	Filtered		ES
RD-23	Z2	Primary	11/03/04	Potassium-40	35.8 U	---	35.8	Filtered		ES
RD-23	Z2	Primary	02/14/05	Potassium-40	23.9 U	---	23.9	Filtered		ES
RD-23	Z3	Primary	02/17/06	Potassium-40	50.5 U	---	50.5	Filtered		ES
RD-23	Z3	Primary	02/07/07	Potassium-40	6.96 U	---	6.96	Filtered		ES
RD-23	Z3	Primary	02/06/08	Potassium-40	23.1 U	---	23.1	Filtered		ES
RD-24		Primary	02/23/94	Actinium-228	0.5 U	3.9	14	Filtered		LAS
RD-24		Primary	02/23/94	Bismuth-214	-2.7 U	2.5	8.1	Filtered		LAS
RD-24		Primary	02/23/94	Lead-212	-0.7 U	4.6	6.7	Filtered		LAS
RD-24		Primary	02/23/94	Lead-214	-3.1 U	2.3	7.5	Filtered		LAS
RD-24		Primary	02/23/94	Potassium-40	2 U	27	43	Filtered		LAS
RD-24		Primary	02/23/94	Radium-226	-10 U	48	68	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-24		Primary	02/23/94	Thallium-208	1.2 U	2.9	4	Filtered		LAS
RD-24		Primary	02/23/94	Thorium-234	-35 U	19	100	Filtered		LAS
RD-24		Primary	02/23/94	Uranium-235	1.5 U	6.2	18	Filtered		LAS
RD-24		Primary	08/08/94	Actinium-228	18 U	20	30	Filtered		LAS
RD-24		Primary	08/08/94	Bismuth-214	-5 U	11	17	Filtered		LAS
RD-24		Primary	08/08/94	Lead-212	2.1 U	8.6	12	Filtered		LAS
RD-24		Primary	08/08/94	Lead-214	-9.1 U	7.1	16	Filtered		LAS
RD-24		Primary	08/08/94	Potassium-40	-10 U	64	99	Filtered		LAS
RD-24		Primary	08/08/94	Radium-226	0 U	110	160	Filtered		LAS
RD-24		Primary	08/08/94	Thallium-208	-0.3 U	6.6	9	Filtered		LAS
RD-24		Primary	08/08/94	Thorium-234	0 U	58	130	Filtered		LAS
RD-24		Primary	08/08/94	Uranium-235	-17 U	19	35	Filtered		LAS
RD-24		Primary	02/16/95	Actinium-228	-5 U	26	43	Filtered		LAS
RD-24		Primary	02/16/95	Bismuth-214	3 U	16	22	Filtered		LAS
RD-24		Primary	02/16/95	Lead-212	-1 U	12	17	Filtered		LAS
RD-24		Primary	02/16/95	Lead-214	-7 U	13	21	Filtered		LAS
RD-24		Primary	02/16/95	Potassium-40	9 U	94	140	Filtered		LAS
RD-24		Primary	02/16/95	Thallium-208	-6.6 U	8.7	13	Filtered		LAS
RD-24		Primary	02/16/95	Thorium-234	9 U	81	190	Filtered		LAS
RD-24		Primary	02/07/96	Actinium-228	4 U	21	39	Filtered		LAS
RD-24		Primary	02/07/96	Bismuth-214	17 U	13	18	Filtered		LAS
RD-24		Primary	02/07/96	Lead-212	3.8 U	9.3	13	Filtered		LAS
RD-24		Primary	02/07/96	Lead-214	15 U	12	17	Filtered		LAS
RD-24		Primary	02/07/96	Potassium-40	-23 U	72	120	Filtered		LAS
RD-24		Primary	02/07/96	Thallium-208	5.8 U	7.2	9.5	Filtered		LAS
RD-24		Primary	02/07/96	Thorium-234	-1 U	68	180	Filtered		LAS
RD-24		Primary	02/07/97	Actinium-228	-11 U	16	39	Filtered		LAS
RD-24		Primary	02/07/97	Bismuth-214	140	27	21	Filtered		LAS
RD-24		Primary	02/07/97	Lead-212	42	14	16	Filtered		LAS
RD-24		Primary	02/07/97	Lead-214	134	22	20	Filtered		LAS
RD-24		Primary	02/07/97	Potassium-40	22 U	75	120	Filtered		LAS
RD-24		Primary	02/07/97	Thallium-208	13.8	8.8	11	Filtered		LAS
RD-24		Primary	02/07/97	Thorium-234	-30 U	130	200	Filtered		LAS
RD-24		Primary	02/18/98	Actinium-228	29.2 U	---	29.2	Filtered		TN
RD-24		Primary	02/18/98	Bismuth-212	47.1 U	---	47.1	Filtered		TN
RD-24		Primary	02/18/98	Bismuth-214	86.1	14	---	Filtered		TN
RD-24		Primary	02/18/98	Lead-210	318 U	---	318	Filtered		TN
RD-24		Primary	02/18/98	Lead-212	10.6 U	---	10.6	Filtered		TN
RD-24		Primary	02/18/98	Lead-214	84.6	14	---	Filtered		TN
RD-24		Primary	02/18/98	Potassium-40	81.9 U	---	81.9	Filtered		TN
RD-24		Primary	02/18/98	Thallium-208	6.25 U	---	6.25	Filtered		TN
RD-24		Primary	02/18/98	Thorium-234	173 U	---	173	Filtered		TN
RD-24		Primary	05/05/98	Actinium-228	66.1 U	---	66.1	Filtered		TN
RD-24		Primary	05/05/98	Bismuth-212	111 U	---	111	Filtered		TN
RD-24		Primary	05/05/98	Bismuth-214	28.4 U	---	28.4	Filtered		TN

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-24		Primary	05/05/98	Lead-210	126 U	---	126	Filtered		TN
RD-24		Primary	05/05/98	Lead-212	18.6 U	---	18.6	Filtered		TN
RD-24		Primary	05/05/98	Lead-214	26.7 U	---	26.7	Filtered		TN
RD-24		Primary	05/05/98	Potassium-40	181 U	---	181	Filtered		TN
RD-24		Primary	05/05/98	Thallium-208	13.9 U	---	13.9	Filtered		TN
RD-24		Primary	05/05/98	Thorium-234	232 U	---	232	Filtered		TN
RD-24		Primary	02/02/99	Actinium-228	60.9 U	---	60.9	Filtered		TN
RD-24		Primary	02/02/99	Bismuth-212	113 U	---	113	Filtered		TN
RD-24		Primary	02/02/99	Bismuth-214	27.4 U	---	27.4	Filtered		TN
RD-24		Primary	02/02/99	Lead-210	770 U	---	770	Filtered		TN
RD-24		Primary	02/02/99	Lead-212	21.8 U	---	21.8	Filtered		TN
RD-24		Primary	02/02/99	Lead-214	28.7 U	---	28.7	Filtered		TN
RD-24		Primary	02/02/99	Potassium-40	248 U	---	248	Filtered		TN
RD-24		Primary	02/02/99	Radium-226	210 U	---	210	Filtered		TN
RD-24		Primary	02/02/99	Thallium-208	15.2 U	---	15.2	Filtered		TN
RD-24		Primary	02/02/99	Thorium-234	320 U	---	320	Filtered		TN
RD-24		Primary	02/02/99	Uranium-235	70.1 U	---	70.1	Filtered		TN
RD-24		Primary	08/11/99	Actinium-228	56.5 U	---	56.5	Filtered		TN
RD-24		Primary	08/11/99	Bismuth-212	89.8 U	---	89.8	Filtered		TN
RD-24		Primary	08/11/99	Bismuth-214	23.7 U	---	23.7	Filtered		TN
RD-24		Primary	08/11/99	Lead-210	3820 U	---	3820	Filtered		TN
RD-24		Primary	08/11/99	Lead-212	36.3 U	---	36.3	Filtered		TN
RD-24		Primary	08/11/99	Lead-214	22.6 U	---	22.6	Filtered		TN
RD-24		Primary	08/11/99	Potassium-40	217 U	---	217	Filtered		TN
RD-24		Primary	08/11/99	Radium-226	192 U	---	192	Filtered		TN
RD-24		Primary	08/11/99	Thallium-208	12.1 U	---	12.1	Filtered		TN
RD-24		Primary	08/11/99	Thorium-234	387 U	---	387	Filtered		TN
RD-24		Primary	08/11/99	Uranium-235	65 U	---	65	Filtered		TN
RD-24		Primary	02/03/00	Actinium-228	86.8 U	---	86.8	Filtered		TR
RD-24		Primary	02/03/00	Bismuth-212	147 U	---	147	Filtered		TR
RD-24		Primary	02/03/00	Bismuth-214	36 U	---	36	Filtered		TR
RD-24		Primary	02/03/00	Lead-210	188 U	---	188	Filtered		TR
RD-24		Primary	02/03/00	Lead-212	19.9 U	---	19.9	Filtered		TR
RD-24		Primary	02/03/00	Lead-214	30.6 U	---	30.6	Filtered		TR
RD-24		Primary	02/03/00	Potassium-40	242 U	---	242	Filtered		TR
RD-24		Primary	02/03/00	Radium-226	217 U	---	217	Filtered		TR
RD-24		Primary	02/03/00	Thallium-208	17.7 U	---	17.7	Filtered		TR
RD-24		Primary	02/03/00	Thorium-234	266 U	---	266	Filtered		TR
RD-24		Primary	02/03/00	Uranium-235	62.2 U	---	62.2	Filtered		TR
RD-24		Primary	08/04/00	Actinium-228	54 U	---	54	Filtered		TR
RD-24		Primary	08/04/00	Bismuth-212	84.5 U	---	84.5	Filtered		TR
RD-24		Primary	08/04/00	Bismuth-214	22.1 U	---	22.1	Filtered		TR
RD-24		Primary	08/04/00	Lead-210	2580 U	---	2580	Filtered		TR
RD-24		Primary	08/04/00	Lead-212	18.5 U	---	18.5	Filtered		TR
RD-24		Primary	08/04/00	Lead-214	22.5 U	---	22.5	Filtered		TR

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-24		Primary	08/04/00	Potassium-40	213 U	---	213	Filtered		TR
RD-24		Primary	08/04/00	Radium-226	254 U	---	254	Filtered		TR
RD-24		Primary	08/04/00	Thallium-208	13.3 U	---	13.3	Filtered		TR
RD-24		Primary	08/04/00	Thorium-234	374 U	---	374	Filtered		TR
RD-24		Primary	08/04/00	Uranium-235	70.5 U	---	70.5	Filtered		TR
RD-24		Primary	02/06/01	Actinium-228	62.6 U	---	62.6	Filtered		ES
RD-24		Primary	02/06/01	Bismuth-212	103 U	---	103	Filtered		ES
RD-24		Primary	02/06/01	Bismuth-214	27.3 U	---	27.3	Filtered		ES
RD-24		Primary	02/06/01	Lead-210	134 U	---	134	Filtered		ES
RD-24		Primary	02/06/01	Lead-212	14 U	---	14	Filtered		ES
RD-24		Primary	02/06/01	Lead-214	41.2 U	---	41.2	Filtered		ES
RD-24		Primary	02/06/01	Potassium-40	190 U	---	190	Filtered		ES
RD-24		Primary	02/06/01	Radium-226	26.5 U	---	26.5	Filtered		ES
RD-24		Primary	02/06/01	Thallium-208	12.5 U	---	12.5	Filtered		ES
RD-24		Primary	02/06/01	Thorium-234	189 U	---	189	Filtered		ES
RD-24		Primary	02/06/01	Uranium-235	42 U	---	42	Filtered		ES
RD-24		Primary	10/25/01	Actinium-228	7 U	---	7	Filtered		DL
RD-24		Primary	10/25/01	Bismuth-212	5 U	---	5	Filtered		DL
RD-24		Primary	10/25/01	Bismuth-214	5 U	---	5	Filtered		DL
RD-24		Primary	10/25/01	Lead-210	7 U	---	7	Filtered		DL
RD-24		Primary	10/25/01	Lead-212	7 U	---	7	Filtered		DL
RD-24		Primary	10/25/01	Lead-214	7 U	---	7	Filtered		DL
RD-24		Primary	10/25/01	Potassium-40	10 U	---	10	Filtered		DL
RD-24		Primary	10/25/01	Radium-226	3 U	---	3	Filtered		DL
RD-24		Primary	10/25/01	Thallium-208	5 U	---	5	Filtered		DL
RD-24		Primary	10/25/01	Thorium-234	3 U	---	3	Filtered		DL
RD-24		Primary	02/25/02	Actinium-228	5.43	0.84	0.93	Filtered		DL
RD-24		Primary	02/25/02	Bismuth-212	3 U	3	3	Filtered		DL
RD-24		Primary	02/25/02	Bismuth-214	3 U	3	3	Filtered		DL
RD-24		Primary	02/25/02	Lead-210	5 U	5	5	Filtered		DL
RD-24		Primary	02/25/02	Lead-212	3 U	3	3	Filtered		DL
RD-24		Primary	02/25/02	Lead-214	5 U	3	5	Filtered		DL
RD-24		Primary	02/25/02	Potassium-40	15.65	1.06	1	Filtered		DL
RD-24		Primary	02/25/02	Radium-226	3 U	3	3	Filtered		DL
RD-24		Primary	02/25/02	Thorium-234	5 U	5	5	Filtered		DL
RD-24		Primary	02/25/02	Uranium-235	5 U	3	5	Filtered		DL
RD-24		Primary	11/06/02	Actinium-228	17.7 U	---	17.7	Filtered		ES
RD-24		Primary	11/06/02	Bismuth-212	30.5 U	---	30.5	Filtered		ES
RD-24		Primary	11/06/02	Bismuth-214	8.27 U	---	8.27	Filtered		ES
RD-24		Primary	11/06/02	Lead-210	899 U	---	899	Filtered		ES
RD-24		Primary	11/06/02	Lead-212	5.58 U	---	5.58	Filtered		ES
RD-24		Primary	11/06/02	Lead-214	7.94 U	---	7.94	Filtered		ES
RD-24		Primary	11/06/02	Potassium-40	82.7 U	---	82.7	Filtered		ES
RD-24		Primary	11/06/02	Radium-226	62.7 U	---	62.7	Filtered		ES
RD-24		Primary	11/06/02	Thorium-234	126 U	---	126	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-24		Primary	11/06/02	Uranium-235	24.1 U	---	24.1	Filtered		ES
RD-24		Primary	02/12/03	Actinium-228	24.1 U	---	24.1	Filtered		ES
RD-24		Primary	02/12/03	Bismuth-212	33.6 U	---	33.6	Filtered		ES
RD-24		Primary	02/12/03	Bismuth-214	10.2 U	---	10.2	Filtered		ES
RD-24		Primary	02/12/03	Lead-210	353 U	---	353	Filtered		ES
RD-24		Primary	02/12/03	Lead-212	6.48 U	---	6.48	Filtered		ES
RD-24		Primary	02/12/03	Lead-214	9.65 U	---	9.65	Filtered		ES
RD-24		Primary	02/12/03	Potassium-40	137 U	---	137	Filtered		ES
RD-24		Primary	02/12/03	Radium-226	71.1 U	---	71.1	Filtered		ES
RD-24		Primary	02/12/03	Thorium-234	78.3 U	---	78.3	Filtered		ES
RD-24		Primary	02/12/03	Uranium-235	23.1 U	---	23.1	Filtered		ES
RD-24		Split	11/14/03	Actinium-228	-3.74 U	11.8	13	Filtered		STL
RD-24		Split	11/14/03	Bismuth-212	-0.48 U	22.7	38.8	Filtered		STL
RD-24		Split	11/14/03	Bismuth-214	4.74 U	7.96	6.86	Filtered		STL
RD-24		Split	11/14/03	Lead-212	1.04 U	4.29	3.39	Filtered		STL
RD-24		Split	11/14/03	Lead-214	-3.52 U	5.68	5.78	Filtered		STL
RD-24		Split	11/14/03	Potassium-40	-95.4 U	59.9	88.8	Filtered		STL
RD-24		Split	11/14/03	Thallium-208	1.65 U	3.64	2.74	Filtered		STL
RD-24		Split	11/14/03	Thorium-234	124 U	236	417	Filtered		STL
RD-24		Primary	11/14/03	Actinium-228	33.3 U	---	33.3	Filtered		ES
RD-24		Primary	11/14/03	Bismuth-212	50 U	---	50	Filtered		ES
RD-24		Primary	11/14/03	Bismuth-214	23.2 U	---	23.2	Filtered		ES
RD-24		Primary	11/14/03	Lead-210	473 U	---	473	Filtered		ES
RD-24		Primary	11/14/03	Lead-212	10.9 U	---	10.9	Filtered		ES
RD-24		Primary	11/14/03	Lead-214	26.7 U	---	26.7	Filtered		ES
RD-24		Primary	11/14/03	Potassium-40	145 U	---	145	Filtered		ES
RD-24		Primary	11/14/03	Radium-226	106 U	---	106	Filtered		ES
RD-24		Primary	11/14/03	Thallium-208	7.55 U	---	7.55	Filtered		ES
RD-24		Primary	11/14/03	Thorium-234	189 U	---	189	Filtered		ES
RD-24		Primary	11/14/03	Uranium-235	35.3 U	---	35.3	Filtered		ES
RD-24		Primary	02/23/04	Actinium-228	27.6 U	---	27.6	Filtered		ES
RD-24		Primary	02/23/04	Bismuth-212	50.7 U	---	50.7	Filtered		ES
RD-24		Primary	02/23/04	Bismuth-214	30 U	---	30	Filtered		ES
RD-24		Primary	02/23/04	Lead-210	1480 U	---	1480	Filtered		ES
RD-24		Primary	02/23/04	Lead-212	9.71 U	---	9.71	Filtered		ES
RD-24		Primary	02/23/04	Lead-214	39 U	---	39	Filtered		ES
RD-24		Primary	02/23/04	Potassium-40	122 U	---	122	Filtered		ES
RD-24		Primary	02/23/04	Radium-226	101 U	---	101	Filtered		ES
RD-24		Primary	02/23/04	Thallium-208	6.7 U	---	6.7	Filtered		ES
RD-24		Primary	02/23/04	Thorium-234	197 U	---	197	Filtered		ES
RD-24		Primary	02/23/04	Uranium-235	38.7 U	---	38.7	Filtered		ES
RD-24		Primary	08/26/04	Actinium-228	32.2 U	---	32.2	Filtered		ES
RD-24		Primary	08/26/04	Bismuth-212	66.3 U	---	66.3	Filtered		ES
RD-24		Primary	08/26/04	Bismuth-214	15.8 U	---	15.8	Filtered		ES
RD-24		Primary	08/26/04	Lead-210	101 U	---	101	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-24		Primary	08/26/04	Lead-212	10.8 U	---	10.8	Filtered		ES
RD-24		Primary	08/26/04	Lead-214	14.7 U	---	14.7	Filtered		ES
RD-24		Primary	08/26/04	Potassium-40	93.6 U	---	93.6	Filtered		ES
RD-24		Primary	08/26/04	Radium-226	99.6 U	---	99.6	Filtered		ES
RD-24		Primary	08/26/04	Thallium-208	7.7 U	---	7.7	Filtered		ES
RD-24		Primary	08/26/04	Thorium-234	121 U	---	121	Filtered		ES
RD-24		Primary	08/26/04	Uranium-235	33.7 U	---	33.7	Filtered		ES
RD-24		Primary	02/24/05	Potassium-40	22.1 J	17	13.4	Filtered		ES
RD-24		Primary	09/06/05	Potassium-40	9.81 U	---	9.81	Filtered		ES
RD-24		Primary	02/15/06	Potassium-40	47.6 U	---	47.6	Filtered		ES
RD-24		Primary	08/10/06	Potassium-40	46.8 U	---	46.8	Filtered		ES
RD-24		Primary	05/24/07	Potassium-40	30.6 U	---	30.6	Filtered		ES
RD-24		Primary	08/08/07	Potassium-40	19.7 U	---	19.7	Filtered		ES
RD-24		Primary	02/13/08	Potassium-40	13.3 U	---	13.3	Filtered		ES
RD-25		Primary	02/28/94	Actinium-228	1.5 U	3.9	14	Filtered		LAS
RD-25		Primary	02/28/94	Bismuth-214	4.8 U	2.7	8	Filtered		LAS
RD-25		Primary	02/28/94	Lead-212	3.5 U	4.9	6.9	Filtered		LAS
RD-25		Primary	02/28/94	Lead-214	2.9 U	2.5	8	Filtered		LAS
RD-25		Primary	02/28/94	Potassium-40	0 U	26	42	Filtered		LAS
RD-25		Primary	02/28/94	Radium-226	-6 U	48	67	Filtered		LAS
RD-25		Primary	02/28/94	Thallium-208	2.1 U	2.9	4	Filtered		LAS
RD-25		Primary	02/28/94	Thorium-234	-11 U	19	100	Filtered		LAS
RD-25		Primary	02/28/94	Uranium-235	4.6 U	6.3	18	Filtered		LAS
RD-25		Primary	08/17/94	Actinium-228	15 U	87	150	Filtered		LAS
RD-25		Primary	08/17/94	Bismuth-214	-35 U	53	83	Filtered		LAS
RD-25		Primary	08/17/94	Lead-212	-2 U	43	61	Filtered		LAS
RD-25		Primary	08/17/94	Lead-214	15 U	46	75	Filtered		LAS
RD-25		Primary	08/17/94	Potassium-40	30 U	310	490	Filtered		LAS
RD-25		Primary	08/17/94	Radium-226	-60 U	410	570	Filtered		LAS
RD-25		Primary	08/17/94	Thallium-208	-4 U	31	45	Filtered		LAS
RD-25		Primary	08/17/94	Thorium-234	60 U	270	680	Filtered		LAS
RD-25		Primary	08/17/94	Uranium-235	-77 U	84	160	Filtered		LAS
RD-25		Primary	02/09/95	Actinium-228	13 U	23	39	Filtered		LAS
RD-25		Primary	02/09/95	Bismuth-214	16 U	15	21	Filtered		LAS
RD-25		Primary	02/09/95	Lead-212	5 U	11	15	Filtered		LAS
RD-25		Primary	02/09/95	Lead-214	22	13	18	Filtered		LAS
RD-25		Primary	02/09/95	Potassium-40	-21 U	77	130	Filtered		LAS
RD-25		Primary	02/09/95	Thallium-208	-0.1 U	7.5	11	Filtered		LAS
RD-25		Primary	02/09/95	Thorium-234	-52 U	70	180	Filtered		LAS
RD-25		Primary	08/18/95	Actinium-228	-3 U	22	41	Filtered		LAS
RD-25		Primary	08/18/95	Bismuth-214	9 U	14	20	Filtered		LAS
RD-25		Primary	08/18/95	Lead-212	0.2 U	9.4	14	Filtered		LAS
RD-25		Primary	08/18/95	Lead-214	11 U	13	19	Filtered		LAS
RD-25		Primary	08/18/95	Potassium-40	-18 U	78	130	Filtered		LAS
RD-25		Primary	08/18/95	Thallium-208	3.1 U	6.8	9.2	Filtered		LAS

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-25		Primary	08/18/95	Thorium-234	13 U	69	170	Filtered		LAS
RD-25		Primary	02/06/96	Actinium-228	-9 U	22	42	Filtered		LAS
RD-25		Primary	02/06/96	Bismuth-214	26	15	18	Filtered		LAS
RD-25		Primary	02/06/96	Lead-212	2.7 U	9.7	14	Filtered		LAS
RD-25		Primary	02/06/96	Lead-214	13 U	12	18	Filtered		LAS
RD-25		Primary	02/06/96	Potassium-40	30 U	70	100	Filtered		LAS
RD-25		Primary	02/06/96	Thallium-208	2.7 U	7.4	10	Filtered		LAS
RD-25		Primary	02/06/96	Thorium-234	10 U	120	180	Filtered		LAS
RD-25		Primary	08/20/96	Actinium-228	8 U	22	40	Filtered		LAS
RD-25		Primary	08/20/96	Bismuth-214	46	16	19	Filtered		LAS
RD-25		Primary	08/20/96	Lead-212	7.5 U	9.7	13	Filtered		LAS
RD-25		Primary	08/20/96	Lead-214	38	14	17	Filtered		LAS
RD-25		Primary	08/20/96	Potassium-40	58 U	77	110	Filtered		LAS
RD-25		Primary	08/20/96	Thallium-208	-1.8 U	7	10	Filtered		LAS
RD-25		Primary	08/20/96	Thorium-234	-3 U	72	190	Filtered		LAS
RD-25		Primary	02/07/97	Actinium-228	-7.8 U	7.9	41	Filtered		LAS
RD-25		Primary	02/07/97	Bismuth-214	236	36	20	Filtered		LAS
RD-25		Primary	02/07/97	Lead-212	-1 U	11	16	Filtered		LAS
RD-25		Primary	02/07/97	Lead-214	237	28	20	Filtered		LAS
RD-25		Primary	02/07/97	Potassium-40	21 U	74	120	Filtered		LAS
RD-25		Primary	02/07/97	Thallium-208	6.5 U	7.7	10	Filtered		LAS
RD-25		Primary	02/07/97	Thorium-234	-30 U	140	210	Filtered		LAS
RD-25		Primary	08/21/97	Actinium-228	0 U	20	37	Filtered		LAS
RD-25		Primary	08/21/97	Bismuth-212	-1 U	45	63	Filtered		LAS
RD-25		Primary	08/21/97	Bismuth-214	20	13	16	Filtered		LAS
RD-25		Primary	08/21/97	Lead-210	0 U	120	180	Filtered		LAS
RD-25		Primary	08/21/97	Lead-212	-3.1 U	9.8	15	Filtered		LAS
RD-25		Primary	08/21/97	Lead-214	21	12	16	Filtered		LAS
RD-25		Primary	08/21/97	Potassium-40	-9 U	60	96	Filtered		LAS
RD-25		Primary	08/21/97	Thallium-208	-2.5 U	6.3	9.6	Filtered		LAS
RD-25		Primary	08/21/97	Thorium-234	62 U	79	150	Filtered		LAS
RD-25		Primary	02/05/98	Actinium-228	38.8 U	---	38.8	Filtered		TN
RD-25		Primary	02/05/98	Bismuth-212	70.3 U	---	70.3	Filtered		TN
RD-25		Primary	02/05/98	Bismuth-214	26	19	---	Filtered		TN
RD-25		Primary	02/05/98	Lead-210	108 U	---	108	Filtered		TN
RD-25		Primary	02/05/98	Lead-212	12.6 U	---	12.6	Filtered		TN
RD-25		Primary	02/05/98	Lead-214	29.8	18	---	Filtered		TN
RD-25		Primary	02/05/98	Potassium-40	98.9 U	---	98.9	Filtered		TN
RD-25		Primary	02/05/98	Thallium-208	9.15 U	---	9.15	Filtered		TN
RD-25		Primary	02/05/98	Thorium-234	157 U	---	157	Filtered		TN
RD-25		Primary	08/18/98	Actinium-228	51.7 U	---	51.7	Filtered		TN
RD-25		Primary	08/18/98	Bismuth-212	97.2 U	---	97.2	Filtered		TN
RD-25		Primary	08/18/98	Bismuth-214	27.7 U	---	27.7	Filtered		TN
RD-25		Primary	08/18/98	Lead-210	628 U	---	628	Filtered		TN
RD-25		Primary	08/18/98	Lead-212	18.9 U	---	18.9	Filtered		TN

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-25		Primary	08/18/98	Lead-214	25.1 U	---	25.1	Filtered		TN
RD-25		Primary	08/18/98	Potassium-40	171 U	---	171	Filtered		TN
RD-25		Primary	08/18/98	Thallium-208	12.9 U	---	12.9	Filtered		TN
RD-25		Primary	08/18/98	Thorium-234	331 U	---	331	Filtered		TN
RD-25		Primary	02/16/99	Actinium-228	67.2 U	---	67.2	Filtered		TN
RD-25		Primary	02/16/99	Bismuth-212	117 U	---	117	Filtered		TN
RD-25		Primary	02/16/99	Bismuth-214	29.2 U	---	29.2	Filtered		TN
RD-25		Primary	02/16/99	Lead-210	819 U	---	819	Filtered		TN
RD-25		Primary	02/16/99	Lead-212	23.2 U	---	23.2	Filtered		TN
RD-25		Primary	02/16/99	Lead-214	27.5 U	---	27.5	Filtered		TN
RD-25		Primary	02/16/99	Potassium-40	264 U	---	264	Filtered		TN
RD-25		Primary	02/16/99	Radium-226	215 U	---	215	Filtered		TN
RD-25		Primary	02/16/99	Thallium-208	16.4 U	---	16.4	Filtered		TN
RD-25		Primary	02/16/99	Thorium-234	338 U	---	338	Filtered		TN
RD-25		Primary	02/16/99	Uranium-235	83.6 U	---	83.6	Filtered		TN
RD-25		Primary	08/19/99	Actinium-228	70.6 U	---	70.6	Filtered		TN
RD-25		Primary	08/19/99	Bismuth-212	126 U	---	126	Filtered		TN
RD-25		Primary	08/19/99	Bismuth-214	29 U	---	29	Filtered		TN
RD-25		Primary	08/19/99	Lead-210	141 U	---	141	Filtered		TN
RD-25		Primary	08/19/99	Lead-212	20.6 U	---	20.6	Filtered		TN
RD-25		Primary	08/19/99	Lead-214	27.8 U	---	27.8	Filtered		TN
RD-25		Primary	08/19/99	Potassium-40	177 U	---	177	Filtered		TN
RD-25		Primary	08/19/99	Radium-226	186 U	---	186	Filtered		TN
RD-25		Primary	08/19/99	Thallium-208	16.1 U	---	16.1	Filtered		TN
RD-25		Primary	08/19/99	Thorium-234	240 U	---	240	Filtered		TN
RD-25		Primary	08/19/99	Uranium-235	57.5 U	---	57.5	Filtered		TN
RD-25		Primary	02/16/00	Actinium-228	60.4 U	---	60.4	Filtered		TR
RD-25		Primary	02/16/00	Bismuth-212	119 U	---	119	Filtered		TR
RD-25		Primary	02/16/00	Bismuth-214	26.3 U	---	26.3	Filtered		TR
RD-25		Primary	02/16/00	Lead-210	135 U	---	135	Filtered		TR
RD-25		Primary	02/16/00	Lead-212	14.8 U	---	14.8	Filtered		TR
RD-25		Primary	02/16/00	Lead-214	21 U	---	21	Filtered		TR
RD-25		Primary	02/16/00	Potassium-40	172 U	---	172	Filtered		TR
RD-25		Primary	02/16/00	Radium-226	140 U	---	140	Filtered		TR
RD-25		Primary	02/16/00	Thallium-208	12.5 U	---	12.5	Filtered		TR
RD-25		Primary	02/16/00	Thorium-234	196 U	---	196	Filtered		TR
RD-25		Primary	02/16/00	Uranium-235	46 U	---	46	Filtered		TR
RD-25		Primary	08/09/00	Actinium-228	55.4 U	---	55.4	Filtered		TR
RD-25		Primary	08/09/00	Bismuth-212	99.5 U	---	99.5	Filtered		TR
RD-25		Primary	08/09/00	Bismuth-214	24.6 U	---	24.6	Filtered		TR
RD-25		Primary	08/09/00	Lead-210	2880 U	---	2880	Filtered		TR
RD-25		Primary	08/09/00	Lead-212	17.9 U	---	17.9	Filtered		TR
RD-25		Primary	08/09/00	Lead-214	22 U	---	22	Filtered		TR
RD-25		Primary	08/09/00	Potassium-40	219 U	---	219	Filtered		TR
RD-25		Primary	08/09/00	Radium-226	322 U	---	322	Filtered		TR

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-25		Primary	08/09/00	Thallium-208	12.5 U	---	12.5	Filtered		TR
RD-25		Primary	08/09/00	Thorium-234	402 U	---	402	Filtered		TR
RD-25		Primary	08/09/00	Uranium-235	68.4 U	---	68.4	Filtered		TR
RD-25		Primary	02/07/01	Actinium-228	65.5 U	---	65.5	Filtered		ES
RD-25		Primary	02/07/01	Bismuth-212	107 U	---	107	Filtered		ES
RD-25		Primary	02/07/01	Bismuth-214	28 U	---	28	Filtered		ES
RD-25		Primary	02/07/01	Lead-210	989 U	---	989	Filtered		ES
RD-25		Primary	02/07/01	Lead-212	20.6 U	---	20.6	Filtered		ES
RD-25		Primary	02/07/01	Lead-214	24.7 U	---	24.7	Filtered		ES
RD-25		Primary	02/07/01	Potassium-40	249 U	---	249	Filtered		ES
RD-25		Primary	02/07/01	Radium-226	27.2 U	---	27.2	Filtered		ES
RD-25		Primary	02/07/01	Thallium-208	16.8 U	---	16.8	Filtered		ES
RD-25		Primary	02/07/01	Thorium-234	319 U	---	319	Filtered		ES
RD-25		Primary	02/07/01	Uranium-235	70.2 U	---	70.2	Filtered		ES
RD-25		Primary	10/25/01	Actinium-228	15 U	---	15	Filtered		DL
RD-25		Primary	10/25/01	Bismuth-212	7 U	---	7	Filtered		DL
RD-25		Primary	10/25/01	Bismuth-214	2.9 U	5	25	Filtered		DL
RD-25		Primary	10/25/01	Lead-210	7 U	---	7	Filtered		DL
RD-25		Primary	10/25/01	Lead-212	7 U	---	7	Filtered		DL
RD-25		Primary	10/25/01	Lead-214	2.9 U	5	5.6	Filtered		DL
RD-25		Primary	10/25/01	Potassium-40	14 U	---	14	Filtered		DL
RD-25		Primary	10/25/01	Radium-226	3 U	---	3	Filtered		DL
RD-25		Primary	10/25/01	Thallium-208	3 U	3	5	Filtered		DL
RD-25		Primary	10/25/01	Thorium-234	5 U	---	5	Filtered		DL
RD-25		Primary	03/07/02	Actinium-228	5 U	3	5	Filtered		DL
RD-25		Primary	03/07/02	Bismuth-212	3 U	3	3	Filtered		DL
RD-25		Primary	03/07/02	Bismuth-214	3 U	3	3	Filtered		DL
RD-25		Primary	03/07/02	Lead-210	5 U	5	5	Filtered		DL
RD-25		Primary	03/07/02	Lead-212	3 U	3	3	Filtered		DL
RD-25		Primary	03/07/02	Lead-214	5 U	3	5	Filtered		DL
RD-25		Primary	03/07/02	Potassium-40	5 U	3	5	Filtered		DL
RD-25		Primary	03/07/02	Radium-226	3 U	3	3	Filtered		DL
RD-25		Primary	03/07/02	Thorium-234	5 U	5	5	Filtered		DL
RD-25		Primary	03/07/02	Uranium-235	5 U	3	5	Filtered		DL
RD-25		Primary	11/06/02	Actinium-228	19.2 U	---	19.2	Filtered		ES
RD-25		Primary	11/06/02	Bismuth-212	27.7 U	---	27.7	Filtered		ES
RD-25		Primary	11/06/02	Bismuth-214	8.67 U	---	8.67	Filtered		ES
RD-25		Primary	11/06/02	Lead-210	289 U	---	289	Filtered		ES
RD-25		Primary	11/06/02	Lead-212	5.42 U	---	5.42	Filtered		ES
RD-25		Primary	11/06/02	Lead-214	8.09 U	---	8.09	Filtered		ES
RD-25		Primary	11/06/02	Potassium-40	110 U	---	110	Filtered		ES
RD-25		Primary	11/06/02	Radium-226	59.5 U	---	59.5	Filtered		ES
RD-25		Primary	11/06/02	Thorium-234	65.2 U	---	65.2	Filtered		ES
RD-25		Primary	11/06/02	Uranium-235	19.5 U	---	19.5	Filtered		ES
RD-25		Primary	02/24/03	Actinium-228	13.6 U	---	13.6	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-25		Primary	02/24/03	Bismuth-212	24.1 U	---	24.1	Filtered		ES
RD-25		Primary	02/24/03	Bismuth-214	9.54 U	---	9.54	Filtered		ES
RD-25		Primary	02/24/03	Lead-210	220 U	---	220	Filtered		ES
RD-25		Primary	02/24/03	Lead-212	4.52 U	---	4.52	Filtered		ES
RD-25		Primary	02/24/03	Lead-214	6.09 U	---	6.09	Filtered		ES
RD-25		Primary	02/24/03	Potassium-40	88.1 U	---	88.1	Filtered		ES
RD-25		Primary	02/24/03	Radium-226	46.1 U	---	46.1	Filtered		ES
RD-25		Primary	02/24/03	Thorium-234	70.4 U	---	70.4	Filtered		ES
RD-25		Primary	02/24/03	Uranium-235	17.5 U	---	17.5	Filtered		ES
RD-25		Primary	11/13/03	Actinium-228	56.7 U	---	56.7	Filtered		ES
RD-25		Primary	11/13/03	Bismuth-212	85.6 U	---	85.6	Filtered		ES
RD-25		Primary	11/13/03	Bismuth-214	49.2 U	---	49.2	Filtered		ES
RD-25		Primary	11/13/03	Lead-210	2720 U	---	2720	Filtered		ES
RD-25		Primary	11/13/03	Lead-212	18.8 U	---	18.8	Filtered		ES
RD-25		Primary	11/13/03	Lead-214	23.3 U	---	23.3	Filtered		ES
RD-25		Primary	11/13/03	Potassium-40	227 U	---	227	Filtered		ES
RD-25		Primary	11/13/03	Radium-226	224 U	---	224	Filtered		ES
RD-25		Primary	11/13/03	Thallium-208	12.8 U	---	12.8	Filtered		ES
RD-25		Primary	11/13/03	Thorium-234	368 U	---	368	Filtered		ES
RD-25		Primary	11/13/03	Uranium-235	74.7 U	---	74.7	Filtered		ES
RD-25		Primary	02/23/04	Actinium-228	15.9 U	---	15.9	Filtered		ES
RD-25		Primary	02/23/04	Bismuth-212	30.2 U	---	30.2	Filtered		ES
RD-25		Primary	02/23/04	Bismuth-214	27.2 U	---	27.2	Filtered		ES
RD-25		Primary	02/23/04	Lead-210	431 U	---	431	Filtered		ES
RD-25		Primary	02/23/04	Lead-212	5.7 U	---	5.7	Filtered		ES
RD-25		Primary	02/23/04	Lead-214	23.2 U	---	23.2	Filtered		ES
RD-25		Primary	02/23/04	Potassium-40	49 U	---	49	Filtered		ES
RD-25		Primary	02/23/04	Radium-226	59.5 U	---	59.5	Filtered		ES
RD-25		Primary	02/23/04	Thallium-208	4.04 U	---	4.04	Filtered		ES
RD-25		Primary	02/23/04	Thorium-234	102 U	---	102	Filtered		ES
RD-25		Primary	02/23/04	Uranium-235	17.8 U	---	17.8	Filtered		ES
RD-25		Split	02/23/04	Actinium-228	10.7	5.59	10.1	Filtered		STL
RD-25		Split	02/23/04	Bismuth-212	-6.13 U	20.1	33.6	Filtered		STL
RD-25		Split	02/23/04	Bismuth-214	2.04 U	4.84	5.76	Filtered		STL
RD-25		Split	02/23/04	Lead-212	0.336 U	3.4	3.21	Filtered		STL
RD-25		Split	02/23/04	Lead-214	3.76 U	2.86	4.9	Filtered		STL
RD-25		Split	02/23/04	Potassium-40	70.4	46	21.1	Filtered		STL
RD-25		Split	02/23/04	Thallium-208	1.95 U	1.53	2.71	Filtered		STL
RD-25		Split	02/23/04	Thorium-234	211 U	225	402	Filtered		STL
RD-25		Split	02/23/04	Uranium-235	-9.35 U	6.71	10.7	Filtered		STL
RD-27		Primary	02/05/96	Actinium-228	-4 U	26	46	Filtered		LAS
RD-27		Primary	02/05/96	Bismuth-214	24	16	19	Filtered		LAS
RD-27		Primary	02/05/96	Lead-212	22	12	14	Filtered		LAS
RD-27		Primary	02/05/96	Lead-214	9 U	12	17	Filtered		LAS
RD-27		Primary	02/05/96	Potassium-40	-45 U	21	120	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-27		Primary	02/05/96	Thallium-208	2.3 U	8.3	11	Filtered		LAS
RD-27		Primary	02/05/96	Thorium-234	-42 U	78	190	Filtered		LAS
RD-27		Primary	08/27/97	Actinium-228	3 U	19	32	Filtered		LAS
RD-27		Primary	08/27/97	Actinium-228	0 U	23	32	Unfiltered		LAS
RD-27		Primary	08/27/97	Bismuth-212	2 U	45	62	Filtered		LAS
RD-27		Primary	08/27/97	Bismuth-212	43 U	44	51	Unfiltered		LAS
RD-27		Primary	08/27/97	Bismuth-214	28	14	18	Filtered		LAS
RD-27		Primary	08/27/97	Bismuth-214	30	13	15	Unfiltered		LAS
RD-27		Primary	08/27/97	Lead-210	10 U	120	180	Filtered		LAS
RD-27		Primary	08/27/97	Lead-210	60 U	120	180	Unfiltered		LAS
RD-27		Primary	08/27/97	Lead-212	0 U	10	15	Filtered		LAS
RD-27		Primary	08/27/97	Lead-212	-4 U	10	16	Unfiltered		LAS
RD-27		Primary	08/27/97	Lead-214	30	12	16	Filtered		LAS
RD-27		Primary	08/27/97	Lead-214	34	12	16	Unfiltered		LAS
RD-27		Primary	08/27/97	Potassium-40	-18 U	65	110	Filtered		LAS
RD-27		Primary	08/27/97	Potassium-40	23 U	64	94	Unfiltered		LAS
RD-27		Primary	08/27/97	Thallium-208	0.1 U	6.5	9.3	Filtered		LAS
RD-27		Primary	08/27/97	Thallium-208	2.2 U	6.5	9.1	Unfiltered		LAS
RD-27		Primary	08/27/97	Thorium-234	-4 U	78	150	Filtered		LAS
RD-27		Primary	08/27/97	Thorium-234	-11 U	79	150	Unfiltered		LAS
RD-27		Primary	02/16/99	Actinium-228	29.8 U	---	29.8	Filtered		TN
RD-27		Primary	02/16/99	Bismuth-212	45.8 U	---	45.8	Filtered		TN
RD-27		Primary	02/16/99	Bismuth-214	11.8 U	---	11.8	Filtered		TN
RD-27		Primary	02/16/99	Lead-210	481 U	---	481	Filtered		TN
RD-27		Primary	02/16/99	Lead-212	10.6 U	---	10.6	Filtered		TN
RD-27		Primary	02/16/99	Lead-214	12 U	---	12	Filtered		TN
RD-27		Primary	02/16/99	Potassium-40	99.8 U	---	99.8	Filtered		TN
RD-27		Primary	02/16/99	Radium-226	148 U	---	148	Filtered		TN
RD-27		Primary	02/16/99	Thallium-208	6.22 U	---	6.22	Filtered		TN
RD-27		Primary	02/16/99	Thorium-234	182 U	---	182	Filtered		TN
RD-27		Primary	02/16/99	Uranium-235	32.8 U	---	32.8	Filtered		TN
RD-27		Primary	08/17/99	Actinium-228	26 U	---	26	Filtered		TN
RD-27		Primary	08/17/99	Bismuth-212	40 U	---	40	Filtered		TN
RD-27		Primary	08/17/99	Bismuth-214	12 U	---	12	Filtered		TN
RD-27		Primary	08/17/99	Lead-210	365 U	---	365	Filtered		TN
RD-27		Primary	08/17/99	Lead-212	9.75 U	---	9.75	Filtered		TN
RD-27		Primary	08/17/99	Lead-214	11 U	---	11	Filtered		TN
RD-27		Primary	08/17/99	Potassium-40	75 U	---	75	Filtered		TN
RD-27		Primary	08/17/99	Radium-226	91.7 U	---	91.7	Filtered		TN
RD-27		Primary	08/17/99	Thallium-208	5.77 U	---	5.77	Filtered		TN
RD-27		Primary	08/17/99	Thorium-234	151 U	---	151	Filtered		TN
RD-27		Primary	08/17/99	Uranium-235	28.9 U	---	28.9	Filtered		TN
RD-27		Primary	02/21/00	Actinium-228	28.7 U	---	28.7	Filtered		TR
RD-27		Primary	02/21/00	Bismuth-212	48.8 U	---	48.8	Filtered		TR
RD-27		Primary	02/21/00	Bismuth-214	13.9 U	---	13.9	Filtered		TR

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-27		Primary	02/21/00	Lead-210	478 U	---	478	Filtered		TR
RD-27		Primary	02/21/00	Lead-212	10.3 U	---	10.3	Filtered		TR
RD-27		Primary	02/21/00	Lead-214	16.2 U	---	16.2	Filtered		TR
RD-27		Primary	02/21/00	Potassium-40	86.8 U	---	86.8	Filtered		TR
RD-27		Primary	02/21/00	Radium-226	107 U	---	107	Filtered		TR
RD-27		Primary	02/21/00	Thallium-208	6.77 U	---	6.77	Filtered		TR
RD-27		Primary	02/21/00	Thorium-234	183 U	---	183	Filtered		TR
RD-27		Primary	02/21/00	Uranium-235	31.3 U	---	31.3	Filtered		TR
RD-27		Primary	08/04/00	Actinium-228	51 U	---	51	Filtered		TR
RD-27		Primary	08/04/00	Bismuth-212	79.7 U	---	79.7	Filtered		TR
RD-27		Primary	08/04/00	Bismuth-214	21.4 U	---	21.4	Filtered		TR
RD-27		Primary	08/04/00	Lead-210	2470 U	---	2470	Filtered		TR
RD-27		Primary	08/04/00	Lead-212	17.3 U	---	17.3	Filtered		TR
RD-27		Primary	08/04/00	Lead-214	21 U	---	21	Filtered		TR
RD-27		Primary	08/04/00	Potassium-40	203 U	---	203	Filtered		TR
RD-27		Primary	08/04/00	Radium-226	171 U	---	171	Filtered		TR
RD-27		Primary	08/04/00	Thallium-208	11.8 U	---	11.8	Filtered		TR
RD-27		Primary	08/04/00	Thorium-234	348 U	---	348	Filtered		TR
RD-27		Primary	08/04/00	Uranium-235	63.5 U	---	63.5	Filtered		TR
RD-27		Primary	02/14/01	Actinium-228	30.6 U	---	30.6	Filtered		ES
RD-27		Primary	02/14/01	Bismuth-212	53.8 U	---	53.8	Filtered		ES
RD-27		Primary	02/14/01	Bismuth-214	19.9 U	---	19.9	Filtered		ES
RD-27		Primary	02/14/01	Lead-210	502 U	---	502	Filtered		ES
RD-27		Primary	02/14/01	Lead-212	10 U	---	10	Filtered		ES
RD-27		Primary	02/14/01	Lead-214	22.8	13	13.2	Filtered		ES
RD-27		Primary	02/14/01	Potassium-40	97.7 U	---	97.7	Filtered		ES
RD-27		Primary	02/14/01	Radium-226	117 U	---	117	Filtered		ES
RD-27		Primary	02/14/01	Thallium-208	9.59 U	---	9.59	Filtered		ES
RD-27		Primary	02/14/01	Thorium-234	188 U	---	188	Filtered		ES
RD-27		Primary	02/14/01	Uranium-235	34.4 U	---	34.4	Filtered		ES
RD-27		Primary	10/26/01	Actinium-228	5 U	---	5	Filtered		DL
RD-27		Primary	10/26/01	Bismuth-212	5 U	---	5	Filtered		DL
RD-27		Primary	10/26/01	Bismuth-214	2.4 U	---	2.4	Filtered		DL
RD-27		Primary	10/26/01	Lead-210	8 U	---	8	Filtered		DL
RD-27		Primary	10/26/01	Lead-212	5 U	---	5	Filtered		DL
RD-27		Primary	10/26/01	Lead-214	5 U	---	5	Filtered		DL
RD-27		Primary	10/26/01	Potassium-40	13 U	---	13	Filtered		DL
RD-27		Primary	10/26/01	Radium-226	1.2 U	0.4	5	Filtered		DL
RD-27		Primary	10/26/01	Thallium-208	5 U	---	5	Filtered		DL
RD-27		Primary	10/26/01	Thorium-234	5 U	---	5	Filtered		DL
RD-27		Primary	03/06/02	Actinium-228	5 U	3	5	Filtered		DL
RD-27		Primary	03/06/02	Bismuth-212	3 U	3	3	Filtered		DL
RD-27		Primary	03/06/02	Bismuth-214	3 U	3	3	Filtered		DL
RD-27		Primary	03/06/02	Lead-210	5 U	5	5	Filtered		DL
RD-27		Primary	03/06/02	Lead-212	3 U	3	3	Filtered		DL

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-27		Primary	03/06/02	Lead-214	5 U	3	5	Filtered		DL
RD-27		Primary	03/06/02	Potassium-40	5 U	3	5	Filtered		DL
RD-27		Primary	03/06/02	Radium-226	3 U	3	3	Filtered		DL
RD-27		Primary	03/06/02	Thorium-234	5 U	5	5	Filtered		DL
RD-27		Primary	03/06/02	Uranium-235	1 U	0.38	1	Filtered		DL
RD-27		Primary	08/22/02	Actinium-228	354 U	---	354	Filtered		ES
RD-27		Primary	08/22/02	Bismuth-212	608 U	---	608	Filtered		ES
RD-27		Primary	08/22/02	Bismuth-214	182 U	---	182	Filtered		ES
RD-27		Primary	08/22/02	Lead-210	3850 U	---	3850	Filtered		ES
RD-27		Primary	08/22/02	Lead-212	159 U	---	159	Filtered		ES
RD-27		Primary	08/22/02	Lead-214	175 U	---	175	Filtered		ES
RD-27		Primary	08/22/02	Potassium-40	1430 U	---	1430	Filtered		ES
RD-27		Primary	08/22/02	Radium-226	1340 U	---	1340	Filtered		ES
RD-27		Primary	08/22/02	Thorium-234	1880 U	---	1880	Filtered		ES
RD-27		Primary	08/22/02	Uranium-235	498 U	---	498	Filtered		ES
RD-27		Primary	05/14/03	Actinium-228	5.67 U	---	5.67	Filtered		ES
RD-27		Primary	05/14/03	Bismuth-212	8.75 U	---	8.75	Filtered		ES
RD-27		Primary	05/14/03	Bismuth-214	2.64 U	---	2.64	Filtered		ES
RD-27		Primary	05/14/03	Lead-210	238 U	---	238	Filtered		ES
RD-27		Primary	05/14/03	Lead-212	1.9 U	---	1.9	Filtered		ES
RD-27		Primary	05/14/03	Lead-214	2.58 U	---	2.58	Filtered		ES
RD-27		Primary	05/14/03	Potassium-40	30.1 U	---	30.1	Filtered		ES
RD-27		Primary	05/14/03	Radium-226	18.8 U	---	18.8	Filtered		ES
RD-27		Primary	05/14/03	Thorium-234	37.6 U	---	37.6	Filtered		ES
RD-27		Primary	05/14/03	Uranium-235	7.2 U	---	7.2	Filtered		ES
RD-27		Split	11/14/03	Actinium-228	0.533 U	12	12.8	Filtered		STL
RD-27		Split	11/14/03	Bismuth-212	19.7 U	23.1	40.4	Filtered		STL
RD-27		Split	11/14/03	Bismuth-214	6.2 U	6.84	6.27	Filtered		STL
RD-27		Split	11/14/03	Lead-212	-1.89 U	4.24	4.15	Filtered		STL
RD-27		Split	11/14/03	Lead-214	0.587 U	5.38	5.41	Filtered		STL
RD-27		Split	11/14/03	Potassium-40	-29.1 U	53.2	77.1	Filtered		STL
RD-27		Split	11/14/03	Thallium-208	-0.815 U	3.29	3.13	Filtered		STL
RD-27		Split	11/14/03	Thorium-234	198 U	268	475	Filtered		STL
RD-27		Primary	11/14/03	Actinium-228	71.6 U	---	71.6	Filtered		ES
RD-27		Primary	11/14/03	Bismuth-212	112 U	---	112	Filtered		ES
RD-27		Primary	11/14/03	Bismuth-214	32.4 U	---	32.4	Filtered		ES
RD-27		Primary	11/14/03	Lead-210	522 U	---	522	Filtered		ES
RD-27		Primary	11/14/03	Lead-212	20.8 U	---	20.8	Filtered		ES
RD-27		Primary	11/14/03	Lead-214	27.6 U	---	27.6	Filtered		ES
RD-27		Primary	11/14/03	Potassium-40	429 U	---	429	Filtered		ES
RD-27		Primary	11/14/03	Radium-226	178 U	---	178	Filtered		ES
RD-27		Primary	11/14/03	Thallium-208	15.4 U	---	15.4	Filtered		ES
RD-27		Primary	11/14/03	Thorium-234	227 U	---	227	Filtered		ES
RD-27		Primary	11/14/03	Uranium-235	69.1 U	---	69.1	Filtered		ES
RD-27		Primary	02/23/04	Actinium-228	18.4 U	---	18.4	Filtered		ES

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-27		Primary	02/23/04	Bismuth-212	32.9 U	---	32.9	Filtered		ES
RD-27		Primary	02/23/04	Bismuth-214	9.22 U	---	9.22	Filtered		ES
RD-27		Primary	02/23/04	Lead-210	400 U	---	400	Filtered		ES
RD-27		Primary	02/23/04	Lead-212	6.39 U	---	6.39	Filtered		ES
RD-27		Primary	02/23/04	Lead-214	12.1 U	---	12.1	Filtered		ES
RD-27		Primary	02/23/04	Potassium-40	54.9 U	---	54.9	Filtered		ES
RD-27		Primary	02/23/04	Radium-226	64.6 U	---	64.6	Filtered		ES
RD-27		Primary	02/23/04	Thallium-208	4.48 U	---	4.48	Filtered		ES
RD-27		Primary	02/23/04	Thorium-234	118 U	---	118	Filtered		ES
RD-27		Primary	02/23/04	Uranium-235	20 U	---	20	Filtered		ES
RD-27		Primary	08/10/04	Actinium-228	68.9 U	---	68.9	Filtered		ES
RD-27		Primary	08/10/04	Bismuth-212	112 U	---	112	Filtered		ES
RD-27		Primary	08/10/04	Bismuth-214	35.1 U	---	35.1	Filtered		ES
RD-27		Primary	08/10/04	Lead-210	1020 U	---	1020	Filtered		ES
RD-27		Primary	08/10/04	Lead-212	22.2 U	---	22.2	Filtered		ES
RD-27		Primary	08/10/04	Lead-214	26.6 U	---	26.6	Filtered		ES
RD-27		Primary	08/10/04	Potassium-40	234 U	---	234	Filtered		ES
RD-27		Primary	08/10/04	Radium-226	217 U	---	217	Filtered		ES
RD-27		Primary	08/10/04	Thallium-208	16.6 U	---	16.6	Filtered		ES
RD-27		Primary	08/10/04	Thorium-234	311 U	---	311	Filtered		ES
RD-27		Primary	08/10/04	Uranium-235	74.3 U	---	74.3	Filtered		ES
RD-27		Primary	02/17/05	Potassium-40	14.2 U	---	14.2	Filtered		ES
RD-27		Primary	08/24/05	Potassium-40	24 U	---	24	Filtered		ES
RD-27		Primary	02/20/06	Potassium-40	42 U	---	42	Filtered		ES
RD-27		Primary	08/25/06	Potassium-40	32.5 U	---	32.5	Filtered		ES
RD-27		Primary	02/14/07	Potassium-40	7.7 U	---	7.7	Filtered		ES
RD-27		Split	02/14/07	Potassium-40	-7.95 U	23	33	Filtered		STL
RD-27		Primary	08/09/07	Potassium-40	10 U	---	10	Filtered		ES
RD-27		Primary	03/05/08	Potassium-40	26.9 U	---	26.9	Filtered		ES
RD-27		Primary	09/04/08	Aluminum-26	0.771 U	---	0.771	Filtered		ES
RD-27		Primary	09/04/08	Potassium-40	9.3 U	---	9.3	Filtered		ES
RD-28		Primary	02/24/94	Actinium-228	-0.6 U	4	15	Filtered		LAS
RD-28		Primary	02/24/94	Bismuth-214	-0.5 U	2.6	8.1	Filtered		LAS
RD-28		Primary	02/24/94	Lead-212	2.9 U	4.8	6.7	Filtered		LAS
RD-28		Primary	02/24/94	Lead-214	0.6 U	2.3	7.8	Filtered		LAS
RD-28		Primary	02/24/94	Potassium-40	-14 U	3	42	Filtered		LAS
RD-28		Primary	02/24/94	Radium-226	-8 U	48	67	Filtered		LAS
RD-28		Primary	02/24/94	Thallium-208	1.7 U	3	4.1	Filtered		LAS
RD-28		Primary	02/24/94	Thorium-234	20 U	19	100	Filtered		LAS
RD-28		Primary	02/24/94	Uranium-235	5.1 U	6.2	18	Filtered		LAS
RD-28		Primary	08/17/94	Actinium-228	100 U	120	190	Filtered		LAS
RD-28		Primary	08/17/94	Bismuth-214	-34 U	75	120	Filtered		LAS
RD-28		Primary	08/17/94	Lead-212	18 U	55	76	Filtered		LAS
RD-28		Primary	08/17/94	Lead-214	-34 U	60	100	Filtered		LAS
RD-28		Primary	08/17/94	Potassium-40	-110 U	410	690	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-28		Primary	08/17/94	Radium-226	-550 U	630	930	Filtered		LAS
RD-28		Primary	08/17/94	Thallium-208	-9 U	43	60	Filtered		LAS
RD-28		Primary	08/17/94	Thorium-234	-70 U	320	720	Filtered		LAS
RD-28		Primary	08/17/94	Uranium-235	30 U	140	200	Filtered		LAS
RD-28		Primary	02/09/95	Actinium-228	-3 U	25	47	Filtered		LAS
RD-28		Primary	02/09/95	Bismuth-214	18 U	17	23	Filtered		LAS
RD-28		Primary	02/09/95	Lead-212	-2 U	12	18	Filtered		LAS
RD-28		Primary	02/09/95	Lead-214	16 U	14	21	Filtered		LAS
RD-28		Primary	02/09/95	Potassium-40	38 U	95	140	Filtered		LAS
RD-28		Primary	02/09/95	Thallium-208	0.5 U	8	12	Filtered		LAS
RD-28		Primary	02/09/95	Thorium-234	0 U	120	180	Filtered		LAS
RD-28		Primary	08/18/95	Actinium-228	-20 U	11	41	Filtered		LAS
RD-28		Primary	08/18/95	Bismuth-214	14 U	14	18	Filtered		LAS
RD-28		Primary	08/18/95	Lead-212	-2 U	9.5	14	Filtered		LAS
RD-28		Primary	08/18/95	Lead-214	6 U	11	17	Filtered		LAS
RD-28		Primary	08/18/95	Potassium-40	1 U	65	100	Filtered		LAS
RD-28		Primary	08/18/95	Thallium-208	-1.9 U	6.7	11	Filtered		LAS
RD-28		Primary	08/18/95	Thorium-234	-40 U	64	150	Filtered		LAS
RD-28		Primary	02/06/96	Actinium-228	0.3 U	9.9	17	Filtered		LAS
RD-28		Primary	02/06/96	Bismuth-214	18.4	8.3	11	Filtered		LAS
RD-28		Primary	02/06/96	Lead-212	3.3 U	6.6	9.7	Filtered		LAS
RD-28		Primary	02/06/96	Lead-214	23.1	7.6	10	Filtered		LAS
RD-28		Primary	02/06/96	Potassium-40	3 U	34	55	Filtered		LAS
RD-28		Primary	02/06/96	Thallium-208	1 U	3.3	4.9	Filtered		LAS
RD-28		Primary	02/06/96	Thorium-234	19 U	62	210	Filtered		LAS
RD-28		Primary	08/20/96	Actinium-228	-5 U	12	41	Filtered		LAS
RD-28		Primary	08/20/96	Bismuth-214	29	16	20	Filtered		LAS
RD-28		Primary	08/20/96	Lead-212	4 U	10	14	Filtered		LAS
RD-28		Primary	08/20/96	Lead-214	16 U	12	18	Filtered		LAS
RD-28		Primary	08/20/96	Potassium-40	27 U	63	94	Filtered		LAS
RD-28		Primary	08/20/96	Thallium-208	0.6 U	6.9	10	Filtered		LAS
RD-28		Primary	08/20/96	Thorium-234	51 U	71	180	Filtered		LAS
RD-28		Primary	02/06/97	Actinium-228	15 U	26	39	Filtered		LAS
RD-28		Primary	02/06/97	Bismuth-214	15 U	16	22	Filtered		LAS
RD-28		Primary	02/06/97	Lead-212	-7 U	11	15	Filtered		LAS
RD-28		Primary	02/06/97	Lead-214	24	16	15	Filtered		LAS
RD-28		Primary	02/06/97	Potassium-40	-17 U	85	130	Filtered		LAS
RD-28		Primary	02/06/97	Thallium-208	-2.1 U	7.9	12	Filtered		LAS
RD-28		Primary	02/06/97	Thorium-234	5 U	81	5	Filtered		LAS
RD-28		Primary	08/28/97	Actinium-228	6 U	19	31	Filtered		LAS
RD-28		Primary	08/28/97	Actinium-228	0 U	19	31	Unfiltered		LAS
RD-28		Primary	08/28/97	Bismuth-212	6 U	47	64	Filtered		LAS
RD-28		Primary	08/28/97	Bismuth-212	-26 U	25	71	Unfiltered		LAS
RD-28		Primary	08/28/97	Bismuth-214	45	15	17	Filtered		LAS
RD-28		Primary	08/28/97	Bismuth-214	63	17	18	Unfiltered		LAS

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-28		Primary	08/28/97	Lead-210	-50 U	110	180	Filtered		LAS
RD-28		Primary	08/28/97	Lead-210	-50 U	110	180	Unfiltered		LAS
RD-28		Primary	08/28/97	Lead-212	6 U	10	15	Filtered		LAS
RD-28		Primary	08/28/97	Lead-212	-4 U	10	15	Unfiltered		LAS
RD-28		Primary	08/28/97	Lead-214	53	14	17	Filtered		LAS
RD-28		Primary	08/28/97	Lead-214	60	15	17	Unfiltered		LAS
RD-28		Primary	08/28/97	Potassium-40	20 U	72	110	Filtered		LAS
RD-28		Primary	08/28/97	Potassium-40	-36 U	62	110	Unfiltered		LAS
RD-28		Primary	08/28/97	Thallium-208	-0.1 U	6.4	9.3	Filtered		LAS
RD-28		Primary	08/28/97	Thallium-208	4.7 U	6.4	8.5	Unfiltered		LAS
RD-28		Primary	08/28/97	Thorium-234	-2 U	81	160	Filtered		LAS
RD-28		Primary	08/28/97	Thorium-234	-33 U	79	160	Unfiltered		LAS
RD-28		Primary	02/05/98	Actinium-228	42.1 U	---	42.1	Filtered		TN
RD-28		Primary	02/05/98	Bismuth-212	73.2 U	---	73.2	Filtered		TN
RD-28		Primary	02/05/98	Bismuth-214	29.1	18	---	Filtered		TN
RD-28		Primary	02/05/98	Lead-210	498 U	---	498	Filtered		TN
RD-28		Primary	02/05/98	Lead-212	13.1 U	---	13.1	Filtered		TN
RD-28		Primary	02/05/98	Lead-214	24	13	---	Filtered		TN
RD-28		Primary	02/05/98	Potassium-40	146 U	---	146	Filtered		TN
RD-28		Primary	02/05/98	Thallium-208	9.85 U	---	9.85	Filtered		TN
RD-28		Primary	02/05/98	Thorium-234	194 U	---	194	Filtered		TN
RD-28		Primary	08/18/98	Actinium-228	51.7 U	---	51.7	Filtered		TN
RD-28		Primary	08/18/98	Bismuth-212	68.4 U	---	68.4	Filtered		TN
RD-28		Primary	08/18/98	Bismuth-214	28.5 U	---	28.5	Filtered		TN
RD-28		Primary	08/18/98	Lead-210	572 U	---	572	Filtered		TN
RD-28		Primary	08/18/98	Lead-212	19.7 U	---	19.7	Filtered		TN
RD-28		Primary	08/18/98	Lead-214	25.6 U	---	25.6	Filtered		TN
RD-28		Primary	08/18/98	Potassium-40	161 U	---	161	Filtered		TN
RD-28		Primary	08/18/98	Thallium-208	12.1 U	---	12.1	Filtered		TN
RD-28		Primary	08/18/98	Thorium-234	333 U	---	333	Filtered		TN
RD-28		Primary	02/16/99	Actinium-228	46.2 U	---	46.2	Filtered		TN
RD-28		Primary	02/16/99	Bismuth-212	92.5 U	---	92.5	Filtered		TN
RD-28		Primary	02/16/99	Bismuth-214	23 U	---	23	Filtered		TN
RD-28		Primary	02/16/99	Lead-210	147 U	---	147	Filtered		TN
RD-28		Primary	02/16/99	Lead-212	14.9 U	---	14.9	Filtered		TN
RD-28		Primary	02/16/99	Lead-214	20.8 U	---	20.8	Filtered		TN
RD-28		Primary	02/16/99	Potassium-40	158 U	---	158	Filtered		TN
RD-28		Primary	02/16/99	Radium-226	141 U	---	141	Filtered		TN
RD-28		Primary	02/16/99	Thallium-208	11.8 U	---	11.8	Filtered		TN
RD-28		Primary	02/16/99	Thorium-234	187 U	---	187	Filtered		TN
RD-28		Primary	02/16/99	Uranium-235	40.9 U	---	40.9	Filtered		TN
RD-28		Primary	08/19/99	Actinium-228	72.3 U	---	72.3	Filtered		TN
RD-28		Primary	08/19/99	Bismuth-212	107 U	---	107	Filtered		TN
RD-28		Primary	08/19/99	Bismuth-214	30.1 U	---	30.1	Filtered		TN
RD-28		Primary	08/19/99	Lead-210	839 U	---	839	Filtered		TN

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-28		Primary	08/19/99	Lead-212	23.6 U	---	23.6	Filtered		TN
RD-28		Primary	08/19/99	Lead-214	28.8 U	---	28.8	Filtered		TN
RD-28		Primary	08/19/99	Potassium-40	439 U	---	439	Filtered		TN
RD-28		Primary	08/19/99	Radium-226	199 U	---	199	Filtered		TN
RD-28		Primary	08/19/99	Thallium-208	16.9 U	---	16.9	Filtered		TN
RD-28		Primary	08/19/99	Thorium-234	367 U	---	367	Filtered		TN
RD-28		Primary	08/19/99	Uranium-235	75.8 U	---	75.8	Filtered		TN
RD-28		Primary	02/16/00	Actinium-228	68.5 U	---	68.5	Filtered		TR
RD-28		Primary	02/16/00	Bismuth-212	118 U	---	118	Filtered		TR
RD-28		Primary	02/16/00	Bismuth-214	27 U	---	27	Filtered		TR
RD-28		Primary	02/16/00	Lead-210	998 U	---	998	Filtered		TR
RD-28		Primary	02/16/00	Lead-212	21.4 U	---	21.4	Filtered		TR
RD-28		Primary	02/16/00	Lead-214	25.5 U	---	25.5	Filtered		TR
RD-28		Primary	02/16/00	Potassium-40	271 U	---	271	Filtered		TR
RD-28		Primary	02/16/00	Radium-226	196 U	---	196	Filtered		TR
RD-28		Primary	02/16/00	Thallium-208	16 U	---	16	Filtered		TR
RD-28		Primary	02/16/00	Thorium-234	318 U	---	318	Filtered		TR
RD-28		Primary	02/16/00	Uranium-235	82.8 U	---	82.8	Filtered		TR
RD-28		Primary	08/09/00	Actinium-228	52.6 U	---	52.6	Filtered		TR
RD-28		Primary	08/09/00	Bismuth-212	88.4 U	---	88.4	Filtered		TR
RD-28		Primary	08/09/00	Bismuth-214	23.4 U	---	23.4	Filtered		TR
RD-28		Primary	08/09/00	Lead-210	2800 U	---	2800	Filtered		TR
RD-28		Primary	08/09/00	Lead-212	18.7 U	---	18.7	Filtered		TR
RD-28		Primary	08/09/00	Lead-214	22.9 U	---	22.9	Filtered		TR
RD-28		Primary	08/09/00	Potassium-40	220 U	---	220	Filtered		TR
RD-28		Primary	08/09/00	Radium-226	177 U	---	177	Filtered		TR
RD-28		Primary	08/09/00	Thallium-208	12.6 U	---	12.6	Filtered		TR
RD-28		Primary	08/09/00	Thorium-234	386 U	---	386	Filtered		TR
RD-28		Primary	08/09/00	Uranium-235	69.6 U	---	69.6	Filtered		TR
RD-28		Primary	02/07/01	Actinium-228	28.6 U	---	28.6	Filtered		ES
RD-28		Primary	02/07/01	Bismuth-212	50 U	---	50	Filtered		ES
RD-28		Primary	02/07/01	Bismuth-214	15.4 U	---	15.4	Filtered		ES
RD-28		Primary	02/07/01	Lead-210	505 U	---	505	Filtered		ES
RD-28		Primary	02/07/01	Lead-212	9.68 U	---	9.68	Filtered		ES
RD-28		Primary	02/07/01	Lead-214	23.7 U	---	23.7	Filtered		ES
RD-28		Primary	02/07/01	Potassium-40	80.3 U	---	80.3	Filtered		ES
RD-28		Primary	02/07/01	Radium-226	15 U	---	15	Filtered		ES
RD-28		Primary	02/07/01	Thallium-208	7.16 U	---	7.16	Filtered		ES
RD-28		Primary	02/07/01	Thorium-234	186 U	---	186	Filtered		ES
RD-28		Primary	02/07/01	Uranium-235	33.9 U	---	33.9	Filtered		ES
RD-28		Primary	10/25/01	Actinium-228	6.9 U	---	6.9	Filtered		DL
RD-28		Primary	10/25/01	Bismuth-212	51 U	18	70	Filtered		DL
RD-28		Primary	10/25/01	Bismuth-214	7.1	1.8	2.8	Filtered		DL
RD-28		Primary	10/25/01	Lead-210	7 U	---	7	Filtered		DL
RD-28		Primary	10/25/01	Lead-212	6.3 U	7	7	Filtered		DL

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-28		Primary	10/25/01	Lead-214	7.1	1.8	2.8	Filtered		DL
RD-28		Primary	10/25/01	Potassium-40	260	241	260	Filtered		DL
RD-28		Primary	10/25/01	Radium-226	3 U	---	3	Filtered		DL
RD-28		Primary	10/25/01	Thallium-208	5 U	---	5	Filtered		DL
RD-28		Primary	10/25/01	Thorium-234	5 U	---	210	Filtered		DL
RD-28		Primary	10/25/01	Uranium-235	5 U	---	5	Filtered		DL
RD-28		Primary	02/25/02	Actinium-228	5 U	3	5	Filtered		DL
RD-28		Primary	02/25/02	Bismuth-212	3 U	1.82	3	Filtered		DL
RD-28		Primary	02/25/02	Bismuth-214	3 U	1.08	3	Filtered		DL
RD-28		Primary	02/25/02	Lead-210	5 U	5	5	Filtered		DL
RD-28		Primary	02/25/02	Lead-212	3 U	3	3	Filtered		DL
RD-28		Primary	02/25/02	Lead-214	5 U	3	5	Filtered		DL
RD-28		Primary	02/25/02	Potassium-40	5 U	3	5	Filtered		DL
RD-28		Primary	02/25/02	Radium-226	3 U	1.82	3	Filtered		DL
RD-28		Primary	02/25/02	Thorium-234	5 U	5	5	Filtered		DL
RD-28		Primary	02/25/02	Uranium-235	5 U	3	5	Filtered		DL
RD-28		Primary	11/06/02	Actinium-228	21.3 U	---	21.3	Filtered		ES
RD-28		Primary	11/06/02	Bismuth-212	35 U	---	35	Filtered		ES
RD-28		Primary	11/06/02	Bismuth-214	8.81 U	---	8.81	Filtered		ES
RD-28		Primary	11/06/02	Lead-210	327 U	---	327	Filtered		ES
RD-28		Primary	11/06/02	Lead-212	6.71 U	---	6.71	Filtered		ES
RD-28		Primary	11/06/02	Lead-214	9.09 U	---	9.09	Filtered		ES
RD-28		Primary	11/06/02	Potassium-40	79.3 U	---	79.3	Filtered		ES
RD-28		Primary	11/06/02	Radium-226	69.2 U	---	69.2	Filtered		ES
RD-28		Primary	11/06/02	Thorium-234	105 U	---	105	Filtered		ES
RD-28		Primary	11/06/02	Uranium-235	25.8 U	---	25.8	Filtered		ES
RD-28		Primary	02/24/03	Actinium-228	6.56 U	---	6.56	Filtered		ES
RD-28		Primary	02/24/03	Bismuth-212	10.2 U	---	10.2	Filtered		ES
RD-28		Primary	02/24/03	Bismuth-214	3.17 U	---	3.17	Filtered		ES
RD-28		Primary	02/24/03	Lead-210	97.6 U	---	97.6	Filtered		ES
RD-28		Primary	02/24/03	Lead-212	1.96 U	---	1.96	Filtered		ES
RD-28		Primary	02/24/03	Lead-214	2.84 U	---	2.84	Filtered		ES
RD-28		Primary	02/24/03	Potassium-40	39.9 U	---	39.9	Filtered		ES
RD-28		Primary	02/24/03	Radium-226	21.4 U	---	21.4	Filtered		ES
RD-28		Primary	02/24/03	Thorium-234	23.7 U	---	23.7	Filtered		ES
RD-28		Primary	02/24/03	Uranium-235	7.16 U	---	7.16	Filtered		ES
RD-28		Primary	11/14/03	Actinium-228	46.9 U	---	46.9	Filtered		ES
RD-28		Primary	11/14/03	Bismuth-212	74.2 U	---	74.2	Filtered		ES
RD-28		Primary	11/14/03	Bismuth-214	58.2 U	---	58.2	Filtered		ES
RD-28		Primary	11/14/03	Lead-210	698 U	---	698	Filtered		ES
RD-28		Primary	11/14/03	Lead-212	24.3 U	---	24.3	Filtered		ES
RD-28		Primary	11/14/03	Lead-214	18.6 U	---	18.6	Filtered		ES
RD-28		Primary	11/14/03	Potassium-40	164 U	---	164	Filtered		ES
RD-28		Primary	11/14/03	Radium-226	135 U	---	135	Filtered		ES
RD-28		Primary	11/14/03	Thallium-208	10.7 U	---	10.7	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-28		Primary	11/14/03	Thorium-234	222 U	---	222	Filtered		ES
RD-28		Primary	11/14/03	Uranium-235	51.2 U	---	51.2	Filtered		ES
RD-28		Primary	02/23/04	Actinium-228	38.6 U	---	38.6	Filtered		ES
RD-28		Primary	02/23/04	Bismuth-212	65.1 U	---	65.1	Filtered		ES
RD-28		Primary	02/23/04	Bismuth-214	39.3 U	---	39.3	Filtered		ES
RD-28		Primary	02/23/04	Lead-210	563 U	---	563	Filtered		ES
RD-28		Primary	02/23/04	Lead-212	12.4 U	---	12.4	Filtered		ES
RD-28		Primary	02/23/04	Lead-214	30.8 U	---	30.8	Filtered		ES
RD-28		Primary	02/23/04	Potassium-40	133 U	---	133	Filtered		ES
RD-28		Primary	02/23/04	Radium-226	108 U	---	108	Filtered		ES
RD-28		Primary	02/23/04	Thallium-208	8.15 U	---	8.15	Filtered		ES
RD-28		Primary	02/23/04	Thorium-234	179 U	---	179	Filtered		ES
RD-28		Primary	02/23/04	Uranium-235	41.3 U	---	41.3	Filtered		ES
RD-28		Split	02/23/04	Actinium-228	-5.16 U	9.82	11	Filtered		STL
RD-28		Split	02/23/04	Bismuth-212	25.7 U	20.9	37.3	Filtered		STL
RD-28		Split	02/23/04	Bismuth-214	-0.951 U	4.97	5.88	Filtered		STL
RD-28		Split	02/23/04	Lead-212	1.7 U	3.15	3.03	Filtered		STL
RD-28		Split	02/23/04	Lead-214	-8.79 U	5.53	4.75	Filtered		STL
RD-28		Split	02/23/04	Potassium-40	-75.4 U	51.4	76.2	Filtered		STL
RD-28		Split	02/23/04	Thallium-208	-1.33 U	2.87	2.93	Filtered		STL
RD-28		Split	02/23/04	Thorium-234	271 U	237	427	Filtered		STL
RD-28		Split	02/23/04	Uranium-235	11.2	6	10.4	Filtered		STL
RD-29		Primary	02/26/94	Actinium-228	-9.2 U	8.8	30	Filtered		LAS
RD-29		Primary	02/26/94	Bismuth-214	-4.8 U	4.7	16	Filtered		LAS
RD-29		Primary	02/26/94	Lead-212	0.4 U	8.6	12	Filtered		LAS
RD-29		Primary	02/26/94	Lead-214	0.9 U	4.8	15	Filtered		LAS
RD-29		Primary	02/26/94	Potassium-40	-73 U	17	99	Filtered		LAS
RD-29		Primary	02/26/94	Radium-226	25 U	98	140	Filtered		LAS
RD-29		Primary	02/26/94	Thallium-208	1.7 U	6.6	8.5	Filtered		LAS
RD-29		Primary	02/26/94	Thorium-234	-3 U	28	130	Filtered		LAS
RD-29		Primary	02/26/94	Uranium-235	-5 U	12	34	Filtered		LAS
RD-29		Primary	05/09/01	Actinium-228	54.3 U	---	54.3	Filtered		ES
RD-29		Primary	05/09/01	Bismuth-212	91.3 U	---	91.3	Filtered		ES
RD-29		Primary	05/09/01	Bismuth-214	32.2	21	23.6	Filtered		ES
RD-29		Primary	05/09/01	Lead-210	2690 U	---	2690	Filtered		ES
RD-29		Primary	05/09/01	Lead-212	29.9 U	---	29.9	Filtered		ES
RD-29		Primary	05/09/01	Lead-214	21.6 U	---	21.6	Filtered		ES
RD-29		Primary	05/09/01	Potassium-40	223 U	---	223	Filtered		ES
RD-29		Primary	05/09/01	Radium-226	185 U	---	185	Filtered		ES
RD-29		Primary	05/09/01	Thallium-208	12 U	---	12	Filtered		ES
RD-29		Primary	05/09/01	Thorium-234	400 U	---	400	Filtered		ES
RD-29		Primary	05/09/01	Uranium-235	69.9 U	---	69.9	Filtered		ES
RD-29		Primary	05/03/02	Actinium-228	5 U	3	5	Filtered		DL
RD-29		Primary	05/03/02	Bismuth-212	3 U	3	3	Filtered		DL
RD-29		Primary	05/03/02	Bismuth-214	3 U	3	3	Filtered		DL

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-29		Primary	05/03/02	Lead-210	5 U	5	5	Filtered		DL
RD-29		Primary	05/03/02	Lead-212	3 U	3	3	Filtered		DL
RD-29		Primary	05/03/02	Lead-214	5 U	3	5	Filtered		DL
RD-29		Primary	05/03/02	Potassium-40	5 U	3	5	Filtered		DL
RD-29		Primary	05/03/02	Radium-226	3 U	3	3	Filtered		DL
RD-29		Primary	05/03/02	Thorium-234	5 U	5	5	Filtered		DL
RD-29		Primary	05/03/02	Uranium-235	1 U	1	1	Filtered		DL
RD-29		Primary	05/13/03	Actinium-228	7 U	---	7	Filtered		ES
RD-29		Primary	05/13/03	Bismuth-212	11.1 U	---	11.1	Filtered		ES
RD-29		Primary	05/13/03	Bismuth-214	3.36 U	---	3.36	Filtered		ES
RD-29		Primary	05/13/03	Lead-210	102 U	---	102	Filtered		ES
RD-29		Primary	05/13/03	Lead-212	2.04 U	---	2.04	Filtered		ES
RD-29		Primary	05/13/03	Lead-214	2.99 U	---	2.99	Filtered		ES
RD-29		Primary	05/13/03	Potassium-40	42.2 U	---	42.2	Filtered		ES
RD-29		Primary	05/13/03	Radium-226	22.2 U	---	22.2	Filtered		ES
RD-29		Primary	05/13/03	Thorium-234	24.1 U	---	24.1	Filtered		ES
RD-29		Primary	05/13/03	Uranium-235	7.2 U	---	7.2	Filtered		ES
RD-29		Primary	02/24/04	Actinium-228	30 U	---	30	Filtered		ES
RD-29		Primary	02/24/04	Bismuth-212	56.4 U	---	56.4	Filtered		ES
RD-29		Primary	02/24/04	Bismuth-214	21.6 U	---	21.6	Filtered		ES
RD-29		Primary	02/24/04	Lead-210	1780 U	---	1780	Filtered		ES
RD-29		Primary	02/24/04	Lead-212	11 U	---	11	Filtered		ES
RD-29		Primary	02/24/04	Lead-214	33.3 U	---	33.3	Filtered		ES
RD-29		Primary	02/24/04	Potassium-40	147 U	---	147	Filtered		ES
RD-29		Primary	02/24/04	Radium-226	174 U	---	174	Filtered		ES
RD-29		Primary	02/24/04	Thallium-208	7.78 U	---	7.78	Filtered		ES
RD-29		Primary	02/24/04	Thorium-234	232 U	---	232	Filtered		ES
RD-29		Primary	02/24/04	Uranium-235	43.2 U	---	43.2	Filtered		ES
RD-29		Primary	02/24/05	Potassium-40	23.9 U	---	23.9	Filtered		ES
RD-29		Primary	02/16/06	Potassium-40	52 U	---	52	Filtered		ES
RD-29		Primary	02/07/07	Potassium-40	22.4 U	---	22.4	Filtered		ES
RD-29		Primary	02/05/08	Potassium-40	32.8 U	---	32.8	Filtered		ES
RD-30		Primary	02/26/94	Actinium-228	0 U	0	34	Filtered		LAS
RD-30		Primary	02/26/94	Bismuth-214	-9.2 U	4.4	16	Filtered		LAS
RD-30		Primary	02/26/94	Lead-212	-1.1 U	8.7	12	Filtered		LAS
RD-30		Primary	02/26/94	Lead-214	-2.5 U	4.6	14	Filtered		LAS
RD-30		Primary	02/26/94	Potassium-40	0 U	56	86	Filtered		LAS
RD-30		Primary	02/26/94	Radium-226	0 U	100	150	Filtered		LAS
RD-30		Primary	02/26/94	Thallium-208	-0.4 U	7.1	10	Filtered		LAS
RD-30		Primary	02/26/94	Thorium-234	13 U	29	120	Filtered		LAS
RD-30		Primary	02/26/94	Uranium-235	-4 U	12	34	Filtered		LAS
RD-30		Primary	08/09/94	Actinium-228	0 U	19	34	Filtered		LAS
RD-30		Primary	08/09/94	Bismuth-214	17	13	17	Filtered		LAS
RD-30		Primary	08/09/94	Lead-212	10.3 U	9.5	12	Filtered		LAS
RD-30		Primary	08/09/94	Lead-214	16	11	14	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-30		Primary	08/09/94	Potassium-40	-3 U	66	97	Filtered		LAS
RD-30		Primary	08/09/94	Radium-226	-54 U	99	150	Filtered		LAS
RD-30		Primary	08/09/94	Thallium-208	3.9 U	7	8.8	Filtered		LAS
RD-30		Primary	08/09/94	Thorium-234	0 U	57	130	Filtered		LAS
RD-30		Primary	08/09/94	Uranium-235	-19 U	18	33	Filtered		LAS
RD-30		Primary	02/08/95	Actinium-228	8 U	27	42	Filtered		LAS
RD-30		Primary	02/08/95	Bismuth-214	88	26	27	Filtered		LAS
RD-30		Primary	02/08/95	Lead-212	6 U	13	19	Filtered		LAS
RD-30		Primary	02/08/95	Lead-214	114	22	24	Filtered		LAS
RD-30		Primary	02/08/95	Potassium-40	6 U	92	140	Filtered		LAS
RD-30		Primary	02/08/95	Thallium-208	-1.6 U	9	13	Filtered		LAS
RD-30		Primary	02/08/95	Thorium-234	-34 U	84	210	Filtered		LAS
RD-30		Primary	08/19/95	Actinium-228	-16 U	11	40	Filtered		LAS
RD-30		Primary	08/19/95	Bismuth-214	79	22	21	Filtered		LAS
RD-30		Primary	08/19/95	Lead-212	4 U	10	15	Filtered		LAS
RD-30		Primary	08/19/95	Lead-214	68	17	20	Filtered		LAS
RD-30		Primary	08/19/95	Potassium-40	-14 U	75	120	Filtered		LAS
RD-30		Primary	08/19/95	Thallium-208	7.1 U	7.5	10	Filtered		LAS
RD-30		Primary	08/19/95	Thorium-234	-30 U	110	160	Filtered		LAS
RD-30		Primary	02/28/96	Actinium-228	14 U	28	45	Filtered		LAS
RD-30		Primary	02/28/96	Bismuth-214	428	55	24	Filtered		LAS
RD-30		Primary	02/28/96	Lead-212	0 U	12	17	Filtered		LAS
RD-30		Primary	02/28/96	Lead-214	469	45	23	Filtered		LAS
RD-30		Primary	02/28/96	Potassium-40	-54 U	97	160	Filtered		LAS
RD-30		Primary	02/28/96	Thallium-208	0.3 U	9.1	13	Filtered		LAS
RD-30		Primary	02/28/96	Thorium-234	61 U	91	250	Filtered		LAS
RD-30		Primary	08/20/96	Actinium-228	0 U	20	39	Filtered		LAS
RD-30		Primary	08/20/96	Bismuth-214	222	35	22	Filtered		LAS
RD-30		Primary	08/20/96	Lead-212	-2 U	10	16	Filtered		LAS
RD-30		Primary	08/20/96	Lead-214	207	26	19	Filtered		LAS
RD-30		Primary	08/20/96	Potassium-40	-32 U	69	120	Filtered		LAS
RD-30		Primary	08/20/96	Thallium-208	-1.5 U	6.9	10	Filtered		LAS
RD-30		Primary	08/20/96	Thorium-234	30 U	130	210	Filtered		LAS
RD-30		Primary	02/25/97	Actinium-228	13 U	25	41	Filtered		LAS
RD-30		Primary	02/25/97	Bismuth-214	327	46	23	Filtered		LAS
RD-30		Primary	02/25/97	Lead-212	5 U	11	16	Filtered		LAS
RD-30		Primary	02/25/97	Lead-214	377	38	20	Filtered		LAS
RD-30		Primary	02/25/97	Potassium-40	12 U	89	140	Filtered		LAS
RD-30		Primary	02/25/97	Thallium-208	-7.2 U	4.6	13	Filtered		LAS
RD-30		Primary	02/25/97	Thorium-234	13 U	79	220	Filtered		LAS
RD-30		Primary	08/27/97	Actinium-228	-4 U	21	36	Filtered		LAS
RD-30		Primary	08/27/97	Actinium-228	0.9 U	9.7	18	Unfiltered		LAS
RD-30		Primary	08/27/97	Bismuth-212	-61 U	26	77	Filtered		LAS
RD-30		Primary	08/27/97	Bismuth-212	16 U	23	29	Unfiltered		LAS
RD-30		Primary	08/27/97	Bismuth-214	120	21	16	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-30		Primary	08/27/97	Bismuth-214	81	13	11	Unfiltered		LAS
RD-30		Primary	08/27/97	Lead-210	20 U	120	190	Filtered		LAS
RD-30		Primary	08/27/97	Lead-210	320 U	390	520	Unfiltered		LAS
RD-30		Primary	08/27/97	Lead-212	-1 U	10	15	Filtered		LAS
RD-30		Primary	08/27/97	Lead-212	6.4 U	6.2	8.7	Unfiltered		LAS
RD-30		Primary	08/27/97	Lead-214	125	19	19	Filtered		LAS
RD-30		Primary	08/27/97	Lead-214	94	13	11	Unfiltered		LAS
RD-30		Primary	08/27/97	Potassium-40	31 U	69	100	Filtered		LAS
RD-30		Primary	08/27/97	Potassium-40	16 U	33	50	Unfiltered		LAS
RD-30		Primary	08/27/97	Thallium-208	1.3 U	6.4	9.1	Filtered		LAS
RD-30		Primary	08/27/97	Thallium-208	0.4 U	3.5	5.2	Unfiltered		LAS
RD-30		Primary	08/27/97	Thorium-234	-52 U	81	160	Filtered		LAS
RD-30		Primary	08/27/97	Thorium-234	15 U	62	99	Unfiltered		LAS
RD-30		Primary	05/28/98	Actinium-228	28.9 U	---	28.9	Filtered		TN
RD-30		Primary	05/28/98	Bismuth-212	52.4 U	---	52.4	Filtered		TN
RD-30		Primary	05/28/98	Bismuth-214	13.7 U	---	13.7	Filtered		TN
RD-30		Primary	05/28/98	Lead-210	523 U	---	523	Filtered		TN
RD-30		Primary	05/28/98	Lead-212	10.4 U	---	10.4	Filtered		TN
RD-30		Primary	05/28/98	Lead-214	13.6 U	---	13.6	Filtered		TN
RD-30		Primary	05/28/98	Potassium-40	98.7 U	---	98.7	Filtered		TN
RD-30		Primary	05/28/98	Thallium-208	6.55 U	---	6.55	Filtered		TN
RD-30		Primary	05/28/98	Thorium-234	197 U	---	197	Filtered		TN
RD-30		Primary	08/05/98	Actinium-228	50.7 U	---	50.7	Filtered		TN
RD-30		Primary	08/05/98	Bismuth-212	80.4 U	---	80.4	Filtered		TN
RD-30		Primary	08/05/98	Bismuth-214	21.4 U	---	21.4	Filtered		TN
RD-30		Primary	08/05/98	Lead-210	439 U	---	439	Filtered		TN
RD-30		Primary	08/05/98	Lead-212	16.1 U	---	16.1	Filtered		TN
RD-30		Primary	08/05/98	Lead-214	21.7 U	---	21.7	Filtered		TN
RD-30		Primary	08/05/98	Potassium-40	144 U	---	144	Filtered		TN
RD-30		Primary	08/05/98	Thallium-208	13.6 U	---	13.6	Filtered		TN
RD-30		Primary	08/05/98	Thorium-234	290 U	---	290	Filtered		TN
RD-30		Primary	02/05/99	Actinium-228	26.6 U	---	26.6	Filtered		TN
RD-30		Primary	02/05/99	Bismuth-212	43.3 U	---	43.3	Filtered		TN
RD-30		Primary	02/05/99	Bismuth-214	20.2 U	---	20.2	Filtered		TN
RD-30		Primary	02/05/99	Lead-210	270 U	---	270	Filtered		TN
RD-30		Primary	02/05/99	Lead-212	10.5 U	---	10.5	Filtered		TN
RD-30		Primary	02/05/99	Lead-214	20.1 U	---	20.1	Filtered		TN
RD-30		Primary	02/05/99	Potassium-40	97.5 U	---	97.5	Filtered		TN
RD-30		Primary	02/05/99	Radium-226	95.2 U	---	95.2	Filtered		TN
RD-30		Primary	02/05/99	Thallium-208	6.22 U	---	6.22	Filtered		TN
RD-30		Primary	02/05/99	Thorium-234	174 U	---	174	Filtered		TN
RD-30		Primary	02/05/99	Uranium-235	31.9 U	---	31.9	Filtered		TN
RD-30		Primary	05/05/00	Actinium-228	52.6 U	---	52.6	Filtered		TR
RD-30		Primary	05/05/00	Bismuth-212	95.9 U	---	95.9	Filtered		TR
RD-30		Primary	05/05/00	Bismuth-214	36.2	24	26.1	Filtered		TR

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-30		Primary	05/05/00	Lead-210	2920 U	---	2920	Filtered		TR
RD-30		Primary	05/05/00	Lead-212	19.3 U	---	19.3	Filtered		TR
RD-30		Primary	05/05/00	Lead-214	34.5	25	28.1	Filtered		TR
RD-30		Primary	05/05/00	Potassium-40	208 U	---	208	Filtered		TR
RD-30		Primary	05/05/00	Radium-226	177 U	---	177	Filtered		TR
RD-30		Primary	05/05/00	Thallium-208	13 U	---	13	Filtered		TR
RD-30		Primary	05/05/00	Thorium-234	406 U	---	406	Filtered		TR
RD-30		Primary	05/05/00	Uranium-235	75 U	---	75	Filtered		TR
RD-30		Primary	08/08/00	Actinium-228	69.1 U	---	69.1	Filtered		TR
RD-30		Primary	08/08/00	Bismuth-212	102 U	---	102	Filtered		TR
RD-30		Primary	08/08/00	Bismuth-214	31.2 U	---	31.2	Filtered		TR
RD-30		Primary	08/08/00	Lead-210	473 U	---	473	Filtered		TR
RD-30		Primary	08/08/00	Lead-212	18.6 U	---	18.6	Filtered		TR
RD-30		Primary	08/08/00	Lead-214	28 U	---	28	Filtered		TR
RD-30		Primary	08/08/00	Potassium-40	421 U	---	421	Filtered		TR
RD-30		Primary	08/08/00	Radium-226	184 U	---	184	Filtered		TR
RD-30		Primary	08/08/00	Thallium-208	15.5 U	---	15.5	Filtered		TR
RD-30		Primary	08/08/00	Thorium-234	202 U	---	202	Filtered		TR
RD-30		Primary	08/08/00	Uranium-235	60.6 U	---	60.6	Filtered		TR
RD-30		Primary	05/09/01	Actinium-228	31.7 U	---	31.7	Filtered		ES
RD-30		Primary	05/09/01	Bismuth-212	56.9 U	---	56.9	Filtered		ES
RD-30		Primary	05/09/01	Bismuth-214	25.3 U	---	25.3	Filtered		ES
RD-30		Primary	05/09/01	Lead-210	425 U	---	425	Filtered		ES
RD-30		Primary	05/09/01	Lead-212	10.6 U	---	10.6	Filtered		ES
RD-30		Primary	05/09/01	Lead-214	15.2 U	---	15.2	Filtered		ES
RD-30		Primary	05/09/01	Potassium-40	94.5 U	---	94.5	Filtered		ES
RD-30		Primary	05/09/01	Radium-226	136 U	---	136	Filtered		ES
RD-30		Primary	05/09/01	Thallium-208	7.62 U	---	7.62	Filtered		ES
RD-30		Primary	05/09/01	Thorium-234	199 U	---	199	Filtered		ES
RD-30		Primary	05/09/01	Uranium-235	35 U	---	35	Filtered		ES
RD-30		Primary	11/09/01	Actinium-228	5 U	---	5	Filtered		DL
RD-30		Primary	11/09/01	Bismuth-212	2.8 U	1.9	5	Filtered		DL
RD-30		Primary	11/09/01	Bismuth-214	10 U	---	10	Filtered		DL
RD-30		Primary	11/09/01	Lead-210	8 U	---	8	Filtered		DL
RD-30		Primary	11/09/01	Lead-212	5 U	---	5	Filtered		DL
RD-30		Primary	11/09/01	Lead-214	5 U	---	5	Filtered		DL
RD-30		Primary	11/09/01	Potassium-40	10 U	---	10	Filtered		DL
RD-30		Primary	11/09/01	Radium-226	5 U	---	5	Filtered		DL
RD-30		Primary	11/09/01	Thallium-208	5 U	---	5	Filtered		DL
RD-30		Primary	11/09/01	Thorium-234	5 U	---	5	Filtered		DL
RD-30		Primary	11/09/01	Uranium-235	5 U	---	5	Filtered		DL
RD-30		Primary	03/11/02	Actinium-228	3 U	3	3	Filtered		DL
RD-30		Primary	03/11/02	Bismuth-212	3 U	3	3	Filtered		DL
RD-30		Primary	03/11/02	Bismuth-214	3 U	3	3	Filtered		DL
RD-30		Primary	03/11/02	Lead-210	3 U	5	3	Filtered		DL

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-30		Primary	03/11/02	Lead-212	3 U	3	3	Filtered		DL
RD-30		Primary	03/11/02	Lead-214	5 U	3	5	Filtered		DL
RD-30		Primary	03/11/02	Potassium-40	5 U	3	5	Filtered		DL
RD-30		Primary	03/11/02	Radium-226	3 U	3	3	Filtered		DL
RD-30		Primary	03/11/02	Thorium-234	5 U	5	5	Filtered		DL
RD-30		Primary	03/11/02	Uranium-235	5 U	3	5	Filtered		DL
RD-30		Primary	08/30/02	Actinium-228	41.7 U	---	41.7	Filtered		ES
RD-30		Primary	08/30/02	Bismuth-212	67 U	---	67	Filtered		ES
RD-30		Primary	08/30/02	Bismuth-214	25.3	20	22.8	Filtered		ES
RD-30		Primary	08/30/02	Lead-210	654 U	---	654	Filtered		ES
RD-30		Primary	08/30/02	Lead-212	13.6 U	---	13.6	Filtered		ES
RD-30		Primary	08/30/02	Lead-214	32.2	22	19.7	Filtered		ES
RD-30		Primary	08/30/02	Potassium-40	152 U	---	152	Filtered		ES
RD-30		Primary	08/30/02	Radium-226	136 U	---	136	Filtered		ES
RD-30		Primary	08/30/02	Thorium-234	207 U	---	207	Filtered		ES
RD-30		Primary	08/30/02	Uranium-235	52.5 U	---	52.5	Filtered		ES
RD-30		Primary	02/07/03	Actinium-228	57.3 U	---	57.3	Filtered		ES
RD-30		Primary	02/07/03	Bismuth-212	104 U	---	104	Filtered		ES
RD-30		Primary	02/07/03	Bismuth-214	25.4 U	---	25.4	Filtered		ES
RD-30		Primary	02/07/03	Lead-210	858 U	---	858	Filtered		ES
RD-30		Primary	02/07/03	Lead-212	18.3 U	---	18.3	Filtered		ES
RD-30		Primary	02/07/03	Lead-214	22.8 U	---	22.8	Filtered		ES
RD-30		Primary	02/07/03	Potassium-40	171 U	---	171	Filtered		ES
RD-30		Primary	02/07/03	Radium-226	182 U	---	182	Filtered		ES
RD-30		Primary	02/07/03	Thorium-234	308 U	---	308	Filtered		ES
RD-30		Primary	02/07/03	Uranium-235	52.6 U	---	52.6	Filtered		ES
RD-30		Primary	11/14/03	Actinium-228	46.9 U	---	46.9	Filtered		ES
RD-30		Primary	11/14/03	Bismuth-212	72.5 U	---	72.5	Filtered		ES
RD-30		Primary	11/14/03	Bismuth-214	46.7 U	---	46.7	Filtered		ES
RD-30		Primary	11/14/03	Lead-210	2550 U	---	2550	Filtered		ES
RD-30		Primary	11/14/03	Lead-212	18 U	---	18	Filtered		ES
RD-30		Primary	11/14/03	Lead-214	48.2 U	---	48.2	Filtered		ES
RD-30		Primary	11/14/03	Potassium-40	321 U	---	321	Filtered		ES
RD-30		Primary	11/14/03	Radium-226	367 U	---	367	Filtered		ES
RD-30		Primary	11/14/03	Thallium-208	12.5 U	---	12.5	Filtered		ES
RD-30		Primary	11/14/03	Thorium-234	341 U	---	341	Filtered		ES
RD-30		Primary	11/14/03	Uranium-235	66.8 U	---	66.8	Filtered		ES
RD-30		Primary	02/24/04	Actinium-228	44 U	---	44	Filtered		ES
RD-30		Primary	02/24/04	Bismuth-212	76.1 U	---	76.1	Filtered		ES
RD-30		Primary	02/24/04	Bismuth-214	51.9 U	---	51.9	Filtered		ES
RD-30		Primary	02/24/04	Lead-210	640 U	---	640	Filtered		ES
RD-30		Primary	02/24/04	Lead-212	31.3 U	---	31.3	Filtered		ES
RD-30		Primary	02/24/04	Lead-214	54.2 U	---	54.2	Filtered		ES
RD-30		Primary	02/24/04	Potassium-40	161 U	---	161	Filtered		ES
RD-30		Primary	02/24/04	Radium-226	126 U	---	126	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-30		Primary	02/24/04	Thallium-208	10.1 U	---	10.1	Filtered		ES
RD-30		Primary	02/24/04	Thorium-234	205 U	---	205	Filtered		ES
RD-30		Primary	02/24/04	Uranium-235	47.8 U	---	47.8	Filtered		ES
RD-30		Primary	08/10/04	Actinium-228	30.9 U	---	30.9	Filtered		ES
RD-30		Primary	08/10/04	Bismuth-212	49.1 U	---	49.1	Filtered		ES
RD-30		Primary	08/10/04	Bismuth-214	32.1	17	15.9	Filtered		ES
RD-30		Primary	08/10/04	Lead-210	423 U	---	423	Filtered		ES
RD-30		Primary	08/10/04	Lead-212	11.4 J	10	11.2	Filtered		ES
RD-30		Primary	08/10/04	Lead-214	41.1	15	15.5	Filtered		ES
RD-30		Primary	08/10/04	Potassium-40	82.3 U	---	82.3	Filtered		ES
RD-30		Primary	08/10/04	Radium-226	104 U	---	104	Filtered		ES
RD-30		Primary	08/10/04	Thallium-208	7.54 U	---	7.54	Filtered		ES
RD-30		Primary	08/10/04	Thorium-234	170 U	---	170	Filtered		ES
RD-30		Primary	08/10/04	Uranium-235	34.5 U	---	34.5	Filtered		ES
RD-30		Primary	08/29/05	Potassium-40	24.6 U	---	24.6	Filtered		ES
RD-30		Split	08/29/05	Potassium-40	-1.42 U	26	56.5	Filtered		STL
RD-30		Primary	02/17/06	Potassium-40	46.4 U	---	46.4	Filtered		ES
RD-30		Primary	08/09/06	Potassium-40	23.2 U	---	23.2	Filtered		ES
RD-30		Split	08/09/06	Potassium-40	-35.5 U	21	30.2	Filtered		STL
RD-30		Primary	05/24/07	Potassium-40	25.6 U	---	25.6	Filtered		ES
RD-30		Primary	08/21/07	Potassium-40	7.76 U	---	7.76	Filtered		ES
RD-30		Primary	02/06/08	Potassium-40	10 U	---	10	Filtered		ES
RD-30		Primary	08/13/08	Aluminum-26	0.877 U	---	0.877	Filtered		ES
RD-30		Primary	08/13/08	Potassium-40	9.88 U	---	9.88	Filtered		ES
RD-33A		Primary	02/27/94	Actinium-228	-9.2 U	4.1	31	Filtered		LAS
RD-33A		Primary	02/27/94	Bismuth-214	-5.5 U	5.5	17	Filtered		LAS
RD-33A		Primary	02/27/94	Lead-212	7.2 U	8.9	12	Filtered		LAS
RD-33A		Primary	02/27/94	Lead-214	5.4 U	4.9	15	Filtered		LAS
RD-33A		Primary	02/27/94	Potassium-40	-4 U	58	90	Filtered		LAS
RD-33A		Primary	02/27/94	Radium-226	-24 U	97	140	Filtered		LAS
RD-33A		Primary	02/27/94	Thallium-208	-4.4 U	6.5	9.7	Filtered		LAS
RD-33A		Primary	02/27/94	Thorium-234	4 U	28	120	Filtered		LAS
RD-33A		Primary	02/27/94	Uranium-235	-18.6 U	8.9	34	Filtered		LAS
RD-33A		Primary	05/10/94	Actinium-228	0 U	10	18	Filtered		LAS
RD-33A		Primary	05/10/94	Actinium-228	-5 U	12	31	Unfiltered		LAS
RD-33A		Primary	05/10/94	Bismuth-214	49	10	11	Filtered		LAS
RD-33A		Primary	05/10/94	Bismuth-214	73	17	15	Unfiltered		LAS
RD-33A		Primary	05/10/94	Lead-212	12.7	6.6	8.4	Filtered		LAS
RD-33A		Primary	05/10/94	Lead-212	9.5 U	9.7	13	Unfiltered		LAS
RD-33A		Primary	05/10/94	Lead-214	52.5	8.9	9.7	Filtered		LAS
RD-33A		Primary	05/10/94	Lead-214	69	14	14	Unfiltered		LAS
RD-33A		Primary	05/10/94	Potassium-40	-14 U	36	59	Filtered		LAS
RD-33A		Primary	05/10/94	Potassium-40	-3 U	62	95	Unfiltered		LAS
RD-33A		Primary	05/10/94	Thallium-208	5.5	4.2	5.5	Filtered		LAS
RD-33A		Primary	05/10/94	Thallium-208	1 U	7.2	9.8	Unfiltered		LAS

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-33A		Primary	05/10/94	Thorium-234	-7 U	51	140	Filtered		LAS
RD-33A		Primary	05/10/94	Thorium-234	27 U	57	130	Unfiltered		LAS
RD-33A		Primary	08/18/94	Actinium-228	-12 U	85	160	Filtered		LAS
RD-33A		Primary	08/18/94	Bismuth-214	37 U	58	87	Filtered		LAS
RD-33A		Primary	08/18/94	Lead-212	0 U	43	61	Filtered		LAS
RD-33A		Primary	08/18/94	Lead-214	-4 U	44	75	Filtered		LAS
RD-33A		Primary	08/18/94	Potassium-40	-20 U	280	460	Filtered		LAS
RD-33A		Primary	08/18/94	Radium-226	-850 U	410	570	Filtered		LAS
RD-33A		Primary	08/18/94	Thallium-208	13 U	31	43	Filtered		LAS
RD-33A		Primary	08/18/94	Thorium-234	110 U	270	700	Filtered		LAS
RD-33A		Primary	08/18/94	Uranium-235	0 U	110	140	Filtered		LAS
RD-33A		Primary	02/07/95	Actinium-228	20 U	23	37	Filtered		LAS
RD-33A		Primary	02/07/95	Bismuth-214	13 U	15	21	Filtered		LAS
RD-33A		Primary	02/07/95	Lead-212	3 U	10	15	Filtered		LAS
RD-33A		Primary	02/07/95	Lead-214	7 U	12	19	Filtered		LAS
RD-33A		Primary	02/07/95	Potassium-40	-35 U	69	120	Filtered		LAS
RD-33A		Primary	02/07/95	Thallium-208	0.9 U	6.8	9.7	Filtered		LAS
RD-33A		Primary	02/07/95	Thorium-234	-1 U	68	160	Filtered		LAS
RD-33A		Primary	08/09/95	Actinium-228	-9 U	11	38	Filtered		LAS
RD-33A		Primary	08/09/95	Bismuth-214	9 U	13	18	Filtered		LAS
RD-33A		Primary	08/09/95	Lead-212	2.6 U	9.2	13	Filtered		LAS
RD-33A		Primary	08/09/95	Lead-214	0 U	11	18	Filtered		LAS
RD-33A		Primary	08/09/95	Potassium-40	44 U	69	94	Filtered		LAS
RD-33A		Primary	08/09/95	Thallium-208	-0.2 U	6.9	10	Filtered		LAS
RD-33A		Primary	08/09/95	Thorium-234	33 U	66	150	Filtered		LAS
RD-33A		Primary	02/19/96	Actinium-228	3 U	22	38	Filtered		LAS
RD-33A		Primary	02/19/96	Bismuth-214	35	16	18	Filtered		LAS
RD-33A		Primary	02/19/96	Lead-212	2 U	10	15	Filtered		LAS
RD-33A		Primary	02/19/96	Lead-214	23	13	18	Filtered		LAS
RD-33A		Primary	02/19/96	Potassium-40	37 U	79	120	Filtered		LAS
RD-33A		Primary	02/19/96	Thallium-208	-1.4 U	7.8	12	Filtered		LAS
RD-33A		Primary	02/19/96	Thorium-234	-14 U	71	180	Filtered		LAS
RD-33A		Primary	08/23/96	Actinium-228	-3 U	22	42	Filtered		LAS
RD-33A		Primary	08/23/96	Bismuth-214	109	24	22	Filtered		LAS
RD-33A		Primary	08/23/96	Lead-212	12 U	10	13	Filtered		LAS
RD-33A		Primary	08/23/96	Lead-214	130	21	20	Filtered		LAS
RD-33A		Primary	08/23/96	Potassium-40	-24 U	86	150	Filtered		LAS
RD-33A		Primary	08/23/96	Thallium-208	4.9 U	7.3	9.6	Filtered		LAS
RD-33A		Primary	08/23/96	Thorium-234	-18 U	76	210	Filtered		LAS
RD-33A		Primary	02/25/97	Actinium-228	-5 U	23	42	Filtered		LAS
RD-33A		Primary	02/25/97	Bismuth-214	58	19	20	Filtered		LAS
RD-33A		Primary	02/25/97	Lead-212	8 U	10	14	Filtered		LAS
RD-33A		Primary	02/25/97	Lead-214	43	15	19	Filtered		LAS
RD-33A		Primary	02/25/97	Potassium-40	15 U	82	130	Filtered		LAS
RD-33A		Primary	02/25/97	Thallium-208	1.2 U	7	10	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-33A		Primary	02/25/97	Thorium-234	15 U	72	190	Filtered		LAS
RD-33A		Primary	08/27/97	Actinium-228	-16 U	17	38	Filtered		LAS
RD-33A		Primary	08/27/97	Actinium-228	7 U	23	40	Unfiltered		LAS
RD-33A		Primary	08/27/97	Bismuth-212	6 U	43	77	Filtered		LAS
RD-33A		Primary	08/27/97	Bismuth-212	-8 U	37	70	Unfiltered		LAS
RD-33A		Primary	08/27/97	Bismuth-214	34	16	18	Filtered		LAS
RD-33A		Primary	08/27/97	Bismuth-214	29	15	17	Unfiltered		LAS
RD-33A		Primary	08/27/97	Lead-210	80 U	110	160	Filtered		LAS
RD-33A		Primary	08/27/97	Lead-210	100 U	110	160	Unfiltered		LAS
RD-33A		Primary	08/27/97	Lead-212	8.5 U	9.9	13	Filtered		LAS
RD-33A		Primary	08/27/97	Lead-212	-1 U	10	15	Unfiltered		LAS
RD-33A		Primary	08/27/97	Lead-214	40	14	17	Filtered		LAS
RD-33A		Primary	08/27/97	Lead-214	24	13	18	Unfiltered		LAS
RD-33A		Primary	08/27/97	Potassium-40	1 U	67	110	Filtered		LAS
RD-33A		Primary	08/27/97	Potassium-40	18 U	73	110	Unfiltered		LAS
RD-33A		Primary	08/27/97	Thallium-208	7.8 U	7.3	8.9	Filtered		LAS
RD-33A		Primary	08/27/97	Thallium-208	-0.4 U	6.7	9.7	Unfiltered		LAS
RD-33A		Primary	08/27/97	Thorium-234	-4 U	73	140	Filtered		LAS
RD-33A		Primary	08/27/97	Thorium-234	-35 U	73	140	Unfiltered		LAS
RD-33A		Primary	05/27/98	Actinium-228	72.9 U	---	72.9	Filtered		TN
RD-33A		Primary	05/27/98	Bismuth-212	115 U	---	115	Filtered		TN
RD-33A		Primary	05/27/98	Bismuth-214	28.9 U	---	28.9	Filtered		TN
RD-33A		Primary	05/27/98	Lead-210	797 U	---	797	Filtered		TN
RD-33A		Primary	05/27/98	Lead-212	21.8 U	---	21.8	Filtered		TN
RD-33A		Primary	05/27/98	Lead-214	26.9 U	---	26.9	Filtered		TN
RD-33A		Primary	05/27/98	Potassium-40	264 U	---	264	Filtered		TN
RD-33A		Primary	05/27/98	Thallium-208	14.6 U	---	14.6	Filtered		TN
RD-33A		Primary	05/27/98	Thorium-234	318 U	---	318	Filtered		TN
RD-33A		Primary	08/17/98	Actinium-228	46.2 U	---	46.2	Filtered		TN
RD-33A		Primary	08/17/98	Bismuth-212	71.1 U	---	71.1	Filtered		TN
RD-33A		Primary	08/17/98	Bismuth-214	22.7 U	---	22.7	Filtered		TN
RD-33A		Primary	08/17/98	Lead-210	491 U	---	491	Filtered		TN
RD-33A		Primary	08/17/98	Lead-212	17.8 U	---	17.8	Filtered		TN
RD-33A		Primary	08/17/98	Lead-214	23.1 U	---	23.1	Filtered		TN
RD-33A		Primary	08/17/98	Potassium-40	127 U	---	127	Filtered		TN
RD-33A		Primary	08/17/98	Thallium-208	12 U	---	12	Filtered		TN
RD-33A		Primary	08/17/98	Thorium-234	290 U	---	290	Filtered		TN
RD-33A		Primary	02/03/99	Actinium-228	28 U	---	28	Filtered		TN
RD-33A		Primary	02/03/99	Bismuth-212	47.7 U	---	47.7	Filtered		TN
RD-33A		Primary	02/03/99	Bismuth-214	13.1 U	---	13.1	Filtered		TN
RD-33A		Primary	02/03/99	Lead-210	302 U	---	302	Filtered		TN
RD-33A		Primary	02/03/99	Lead-212	11.2 U	---	11.2	Filtered		TN
RD-33A		Primary	02/03/99	Lead-214	12.3 U	---	12.3	Filtered		TN
RD-33A		Primary	02/03/99	Potassium-40	93.5 U	---	93.5	Filtered		TN
RD-33A		Primary	02/03/99	Radium-226	106 U	---	106	Filtered		TN

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-33A		Primary	02/03/99	Thallium-208	6.84 U	---	6.84	Filtered		TN
RD-33A		Primary	02/03/99	Thorium-234	190 U	---	190	Filtered		TN
RD-33A		Primary	02/03/99	Uranium-235	32.8 U	---	32.8	Filtered		TN
RD-33A		Primary	02/09/00	Actinium-228	44.9 U	---	44.9	Filtered		TR
RD-33A		Primary	02/09/00	Bismuth-212	58 U	---	58	Filtered		TR
RD-33A		Primary	02/09/00	Bismuth-214	19.7 U	---	19.7	Filtered		TR
RD-33A		Primary	02/09/00	Lead-210	1440 U	---	1440	Filtered		TR
RD-33A		Primary	02/09/00	Lead-212	18.2 U	---	18.2	Filtered		TR
RD-33A		Primary	02/09/00	Lead-214	22.5 U	---	22.5	Filtered		TR
RD-33A		Primary	02/09/00	Potassium-40	335 U	---	335	Filtered		TR
RD-33A		Primary	02/09/00	Radium-226	188 U	---	188	Filtered		TR
RD-33A		Primary	02/09/00	Thallium-208	10.9 U	---	10.9	Filtered		TR
RD-33A		Primary	02/09/00	Thorium-234	327 U	---	327	Filtered		TR
RD-33A		Primary	02/09/00	Uranium-235	67.2 U	---	67.2	Filtered		TR
RD-33A		Primary	05/14/01	Actinium-228	47.4 U	---	47.4	Filtered		ES
RD-33A		Primary	05/14/01	Bismuth-212	80.1 U	---	80.1	Filtered		ES
RD-33A		Primary	05/14/01	Bismuth-214	21 U	---	21	Filtered		ES
RD-33A		Primary	05/14/01	Lead-210	2220 U	---	2220	Filtered		ES
RD-33A		Primary	05/14/01	Lead-212	15.2 U	---	15.2	Filtered		ES
RD-33A		Primary	05/14/01	Lead-214	19.6 U	---	19.6	Filtered		ES
RD-33A		Primary	05/14/01	Potassium-40	198 U	---	198	Filtered		ES
RD-33A		Primary	05/14/01	Radium-226	150 U	---	150	Filtered		ES
RD-33A		Primary	05/14/01	Thallium-208	10.4 U	---	10.4	Filtered		ES
RD-33A		Primary	05/14/01	Thorium-234	343 U	---	343	Filtered		ES
RD-33A		Primary	05/14/01	Uranium-235	59 U	---	59	Filtered		ES
RD-33A		Primary	02/15/02	Actinium-228	5 U	5	5	Filtered		DL
RD-33A		Primary	02/15/02	Bismuth-212	5 U	3	5	Filtered		DL
RD-33A		Primary	02/15/02	Bismuth-214	5 U	4	5	Filtered		DL
RD-33A		Primary	02/15/02	Lead-210	3 U	3	3	Filtered		DL
RD-33A		Primary	02/15/02	Lead-212	5 U	3	5	Filtered		DL
RD-33A		Primary	02/15/02	Lead-214	5 U	3	5	Filtered		DL
RD-33A		Primary	02/15/02	Potassium-40	38.59	6.2	8	Filtered		DL
RD-33A		Primary	02/15/02	Radium-226	5 U	3	5	Filtered		DL
RD-33A		Primary	02/15/02	Thorium-234	5 U	5	5	Filtered		DL
RD-33A		Primary	02/15/02	Uranium-235	5 U	3	5	Filtered		DL
RD-33A	Z4	Primary	01/30/03	Actinium-228	9.02 U	---	9.02	Filtered		ES
RD-33A	Z4	Primary	01/30/03	Bismuth-212	15 U	---	15	Filtered		ES
RD-33A	Z4	Primary	01/30/03	Bismuth-214	4.01 U	---	4.01	Filtered		ES
RD-33A	Z4	Primary	01/30/03	Lead-210	452 U	---	452	Filtered		ES
RD-33A	Z4	Primary	01/30/03	Lead-212	2.8 U	---	2.8	Filtered		ES
RD-33A	Z4	Primary	01/30/03	Lead-214	3.91 U	---	3.91	Filtered		ES
RD-33A	Z4	Primary	01/30/03	Potassium-40	41.5 U	---	41.5	Filtered		ES
RD-33A	Z4	Primary	01/30/03	Radium-226	31.4 U	---	31.4	Filtered		ES
RD-33A	Z4	Primary	01/30/03	Thorium-234	62.6 U	---	62.6	Filtered		ES
RD-33A	Z4	Primary	01/30/03	Uranium-235	12.2 U	---	12.2	Filtered		ES

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-33A	Z2	Primary	11/15/04	Potassium-40	52.2 U	---	52.2	Filtered		ES
RD-33A	Z3	Primary	02/17/05	Potassium-40	41.5 U	---	41.5	Filtered		ES
RD-33A	Z2	Primary	02/17/06	Potassium-40	18.7 U	---	18.7	Filtered		ES
RD-33A	Z2	Primary	02/08/07	Potassium-40	16.3 U	---	16.3	Filtered		ES
RD-33A	Z2	Primary	02/07/08	Potassium-40	18.4 U	---	18.4	Filtered		ES
RD-33B		Reanalysis of Primary	02/27/94	Actinium-228	-4.8 U	7.9	15	Filtered		LAS
RD-33B		Reanalysis of Primary	02/27/94	Bismuth-214	0.6 U	5.2	7.9	Filtered		LAS
RD-33B		Reanalysis of Primary	02/27/94	Lead-212	1 U	4.8	6.8	Filtered		LAS
RD-33B		Reanalysis of Primary	02/27/94	Lead-214	4.7 U	4.8	4.6	Filtered		LAS
RD-33B		Reanalysis of Primary	02/27/94	Potassium-40	-20 U	26	45	Filtered		LAS
RD-33B		Reanalysis of Primary	02/27/94	Radium-226	-12 U	48	67	Filtered		LAS
RD-33B		Reanalysis of Primary	02/27/94	Thallium-208	-1.2 U	2.9	4.3	Filtered		LAS
RD-33B		Reanalysis of Primary	02/27/94	Thorium-234	18 U	37	110	Filtered		LAS
RD-33B		Reanalysis of Primary	02/27/94	Uranium-235	-10.1 U	6.5	20	Filtered		LAS
RD-33B		Primary	05/10/94	Actinium-228	-3 U	9.1	30	Filtered		LAS
RD-33B		Primary	05/10/94	Actinium-228	-3 U	19	33	Unfiltered		LAS
RD-33B		Primary	05/10/94	Bismuth-214	6.9 U	8.3	15	Filtered		LAS
RD-33B		Primary	05/10/94	Bismuth-214	44	16	16	Unfiltered		LAS
RD-33B		Primary	05/10/94	Lead-212	4.3 U	9.2	13	Filtered		LAS
RD-33B		Primary	05/10/94	Lead-212	5.8 U	9.4	13	Unfiltered		LAS
RD-33B		Primary	05/10/94	Lead-214	24	11	14	Filtered		LAS
RD-33B		Primary	05/10/94	Lead-214	38	12	15	Unfiltered		LAS
RD-33B		Primary	05/10/94	Potassium-40	-25 U	61	99	Filtered		LAS
RD-33B		Primary	05/10/94	Potassium-40	71 U	73	95	Unfiltered		LAS
RD-33B		Primary	05/10/94	Thallium-208	-1.7 U	6.6	9.3	Filtered		LAS
RD-33B		Primary	05/10/94	Thallium-208	5.6 U	7	8.9	Unfiltered		LAS
RD-33B		Primary	05/10/94	Thorium-234	-8 U	55	120	Filtered		LAS
RD-33B		Primary	05/10/94	Thorium-234	37 U	57	130	Unfiltered		LAS
RD-33B		Primary	08/18/94	Actinium-228	0 U	100	190	Filtered		LAS
RD-33B		Primary	08/18/94	Bismuth-214	10 U	64	100	Filtered		LAS
RD-33B		Primary	08/18/94	Lead-212	-21 U	50	78	Filtered		LAS
RD-33B		Primary	08/18/94	Lead-214	-15 U	52	91	Filtered		LAS
RD-33B		Primary	08/18/94	Potassium-40	60 U	330	570	Filtered		LAS
RD-33B		Primary	08/18/94	Radium-226	90 U	500	730	Filtered		LAS
RD-33B		Primary	08/18/94	Thallium-208	0 U	37	57	Filtered		LAS
RD-33B		Primary	08/18/94	Thorium-234	-20 U	320	860	Filtered		LAS
RD-33B		Primary	08/18/94	Uranium-235	-50 U	110	200	Filtered		LAS
RD-33B		Primary	02/07/95	Actinium-228	-9 U	13	45	Filtered		LAS
RD-33B		Primary	02/07/95	Bismuth-214	6 U	13	20	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-33B		Primary	02/07/95	Lead-212	2 U	10	15	Filtered		LAS
RD-33B		Primary	02/07/95	Lead-214	-3 U	10	17	Filtered		LAS
RD-33B		Primary	02/07/95	Potassium-40	38 U	87	130	Filtered		LAS
RD-33B		Primary	02/07/95	Thallium-208	-0.3 U	7.4	11	Filtered		LAS
RD-33B		Primary	02/07/95	Thorium-234	-10 U	110	170	Filtered		LAS
RD-33B		Primary	08/09/95	Actinium-228	6 U	20	39	Filtered		LAS
RD-33B		Primary	08/09/95	Bismuth-214	0 U	13	21	Filtered		LAS
RD-33B		Primary	08/09/95	Lead-212	2.4 U	9.7	14	Filtered		LAS
RD-33B		Primary	08/09/95	Lead-214	-1.4 U	9.1	18	Filtered		LAS
RD-33B		Primary	08/09/95	Potassium-40	-10 U	75	120	Filtered		LAS
RD-33B		Primary	08/09/95	Thallium-208	0.3 U	6.7	9.7	Filtered		LAS
RD-33B		Primary	08/09/95	Thorium-234	10 U	100	160	Filtered		LAS
RD-33B		Primary	02/19/96	Actinium-228	-1 U	21	40	Filtered		LAS
RD-33B		Primary	02/19/96	Bismuth-214	13 U	14	20	Filtered		LAS
RD-33B		Primary	02/19/96	Lead-212	14	10	13	Filtered		LAS
RD-33B		Primary	02/19/96	Lead-214	9 U	12	19	Filtered		LAS
RD-33B		Primary	02/19/96	Potassium-40	40 U	79	110	Filtered		LAS
RD-33B		Primary	02/19/96	Thallium-208	-0.8 U	7.3	11	Filtered		LAS
RD-33B		Primary	02/19/96	Thorium-234	-37 U	69	190	Filtered		LAS
RD-33B		Primary	08/23/96	Actinium-228	6 U	22	38	Filtered		LAS
RD-33B		Primary	08/23/96	Bismuth-214	24	16	20	Filtered		LAS
RD-33B		Primary	08/23/96	Lead-212	1 U	10	15	Filtered		LAS
RD-33B		Primary	08/23/96	Lead-214	29	13	18	Filtered		LAS
RD-33B		Primary	08/23/96	Potassium-40	11 U	64	100	Filtered		LAS
RD-33B		Primary	08/23/96	Thallium-208	6.5 U	6.8	8.6	Filtered		LAS
RD-33B		Primary	08/23/96	Thorium-234	6 U	69	180	Filtered		LAS
RD-33B		Primary	02/25/97	Actinium-228	9 U	23	42	Filtered		LAS
RD-33B		Primary	02/25/97	Bismuth-214	3 U	13	19	Filtered		LAS
RD-33B		Primary	02/25/97	Lead-212	0.3 U	8.5	12	Filtered		LAS
RD-33B		Primary	02/25/97	Lead-214	-3 U	12	20	Filtered		LAS
RD-33B		Primary	02/25/97	Potassium-40	2 U	66	100	Filtered		LAS
RD-33B		Primary	02/25/97	Thallium-208	1 U	6.1	8.7	Filtered		LAS
RD-33B		Primary	02/25/97	Thorium-234	-10 U	110	170	Filtered		LAS
RD-33B		Primary	08/22/97	Actinium-228	11 U	22	38	Filtered		LAS
RD-33B		Primary	08/22/97	Bismuth-212	14 U	46	60	Filtered		LAS
RD-33B		Primary	08/22/97	Bismuth-214	-15.5 U	9.9	17	Filtered		LAS
RD-33B		Primary	08/22/97	Lead-210	-50 U	100	170	Filtered		LAS
RD-33B		Primary	08/22/97	Lead-212	0.1 U	8.6	12	Filtered		LAS
RD-33B		Primary	08/22/97	Lead-214	8 U	11	18	Filtered		LAS
RD-33B		Primary	08/22/97	Potassium-40	-16 U	66	120	Filtered		LAS
RD-33B		Primary	08/22/97	Thallium-208	-3.2 U	6.2	10	Filtered		LAS
RD-33B		Primary	08/22/97	Thorium-234	-47 U	69	140	Filtered		LAS
RD-33B		Primary	05/27/98	Actinium-228	29.1 U	---	29.1	Filtered		TN
RD-33B		Primary	05/27/98	Bismuth-212	41.3 U	---	41.3	Filtered		TN
RD-33B		Primary	05/27/98	Bismuth-214	11.9 U	---	11.9	Filtered		TN

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-33B		Primary	05/27/98	Lead-210	272 U	---	272	Filtered		TN
RD-33B		Primary	05/27/98	Lead-212	15.6 U	---	15.6	Filtered		TN
RD-33B		Primary	05/27/98	Lead-214	13.4 U	---	13.4	Filtered		TN
RD-33B		Primary	05/27/98	Potassium-40	75.6 U	---	75.6	Filtered		TN
RD-33B		Primary	05/27/98	Thallium-208	6.38 U	---	6.38	Filtered		TN
RD-33B		Primary	05/27/98	Thorium-234	166 U	---	166	Filtered		TN
RD-33B		Primary	08/17/98	Actinium-228	47 U	---	47	Filtered		TN
RD-33B		Primary	08/17/98	Bismuth-212	72.2 U	---	72.2	Filtered		TN
RD-33B		Primary	08/17/98	Bismuth-214	29.7 U	---	29.7	Filtered		TN
RD-33B		Primary	08/17/98	Lead-210	617 U	---	617	Filtered		TN
RD-33B		Primary	08/17/98	Lead-212	22.4 U	---	22.4	Filtered		TN
RD-33B		Primary	08/17/98	Lead-214	29.7 U	---	29.7	Filtered		TN
RD-33B		Primary	08/17/98	Potassium-40	186 U	---	186	Filtered		TN
RD-33B		Primary	08/17/98	Thallium-208	14.5 U	---	14.5	Filtered		TN
RD-33B		Primary	08/17/98	Thorium-234	362 U	---	362	Filtered		TN
RD-33B		Primary	02/03/99	Actinium-228	19.7 U	---	19.7	Filtered		TN
RD-33B		Primary	02/03/99	Bismuth-212	34.6 U	---	34.6	Filtered		TN
RD-33B		Primary	02/03/99	Bismuth-214	9.07 U	---	9.07	Filtered		TN
RD-33B		Primary	02/03/99	Lead-210	226 U	---	226	Filtered		TN
RD-33B		Primary	02/03/99	Lead-212	7.91 U	---	7.91	Filtered		TN
RD-33B		Primary	02/03/99	Lead-214	9.12 U	---	9.12	Filtered		TN
RD-33B		Primary	02/03/99	Potassium-40	71.7 U	---	71.7	Filtered		TN
RD-33B		Primary	02/03/99	Radium-226	76.3 U	---	76.3	Filtered		TN
RD-33B		Primary	02/03/99	Thallium-208	4.48 U	---	4.48	Filtered		TN
RD-33B		Primary	02/03/99	Thorium-234	136 U	---	136	Filtered		TN
RD-33B		Primary	02/03/99	Uranium-235	25.4 U	---	25.4	Filtered		TN
RD-33B		Primary	02/09/00	Actinium-228	48.6 U	---	48.6	Filtered		TR
RD-33B		Primary	02/09/00	Bismuth-212	88.2 U	---	88.2	Filtered		TR
RD-33B		Primary	02/09/00	Bismuth-214	22 U	---	22	Filtered		TR
RD-33B		Primary	02/09/00	Lead-210	280 U	---	280	Filtered		TR
RD-33B		Primary	02/09/00	Lead-212	12.3 U	---	12.3	Filtered		TR
RD-33B		Primary	02/09/00	Lead-214	18 U	---	18	Filtered		TR
RD-33B		Primary	02/09/00	Potassium-40	232 U	---	232	Filtered		TR
RD-33B		Primary	02/09/00	Radium-226	119 U	---	119	Filtered		TR
RD-33B		Primary	02/09/00	Thallium-208	11.4 U	---	11.4	Filtered		TR
RD-33B		Primary	02/09/00	Thorium-234	148 U	---	148	Filtered		TR
RD-33B		Primary	02/09/00	Uranium-235	35.9 U	---	35.9	Filtered		TR
RD-33B		Primary	02/17/01	Actinium-228	58.5 U	---	58.5	Filtered		ES
RD-33B		Primary	02/17/01	Bismuth-212	92 U	---	92	Filtered		ES
RD-33B		Primary	02/17/01	Bismuth-214	29.2 U	---	29.2	Filtered		ES
RD-33B		Primary	02/17/01	Lead-210	435 U	---	435	Filtered		ES
RD-33B		Primary	02/17/01	Lead-212	18.8 U	---	18.8	Filtered		ES
RD-33B		Primary	02/17/01	Lead-214	26.4 U	---	26.4	Filtered		ES
RD-33B		Primary	02/17/01	Potassium-40	386 U	---	386	Filtered		ES
RD-33B		Primary	02/17/01	Radium-226	175 U	---	175	Filtered		ES

See last page of table for notes and abbreviations.

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RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-33B		Primary	02/17/01	Thallium-208	13.8 U	---	13.8	Filtered		ES
RD-33B		Primary	02/17/01	Thorium-234	213 U	---	213	Filtered		ES
RD-33B		Primary	02/17/01	Uranium-235	58 U	---	58	Filtered		ES
RD-33B		Primary	02/15/02	Actinium-228	5 U	5	5	Filtered		DL
RD-33B		Primary	02/15/02	Bismuth-212	5 U	3	5	Filtered		DL
RD-33B		Primary	02/15/02	Bismuth-214	5 U	3	5	Filtered		DL
RD-33B		Primary	02/15/02	Lead-210	5 U	3	5	Filtered		DL
RD-33B		Primary	02/15/02	Lead-212	5 U	3	5	Filtered		DL
RD-33B		Primary	02/15/02	Lead-214	5 U	3	5	Filtered		DL
RD-33B		Primary	02/15/02	Potassium-40	6 U	3	6	Filtered		DL
RD-33B		Primary	02/15/02	Radium-226	5 U	5	5	Filtered		DL
RD-33B		Primary	02/15/02	Thorium-234	5 U	5	5	Filtered		DL
RD-33B		Primary	02/15/02	Uranium-235	5 U	3	5	Filtered		DL
RD-33B		Primary	02/11/03	Actinium-228	13.3 U	---	13.3	Filtered		ES
RD-33B		Primary	02/11/03	Bismuth-212	21.6 U	---	21.6	Filtered		ES
RD-33B		Primary	02/11/03	Bismuth-214	8.56 U	---	8.56	Filtered		ES
RD-33B		Primary	02/11/03	Lead-210	198 U	---	198	Filtered		ES
RD-33B		Primary	02/11/03	Lead-212	4.15 U	---	4.15	Filtered		ES
RD-33B		Primary	02/11/03	Lead-214	5.63 U	---	5.63	Filtered		ES
RD-33B		Primary	02/11/03	Potassium-40	60.8 U	---	60.8	Filtered		ES
RD-33B		Primary	02/11/03	Radium-226	42.3 U	---	42.3	Filtered		ES
RD-33B		Primary	02/11/03	Thorium-234	64.6 U	---	64.6	Filtered		ES
RD-33B		Primary	02/11/03	Uranium-235	16.1 U	---	16.1	Filtered		ES
RD-33B		Primary	11/04/04	Potassium-40	38.9 U	---	38.9	Filtered		ES
RD-33B		Primary	02/17/05	Potassium-40	39.7 U	---	39.7	Filtered		ES
RD-33B		Split	02/17/05	Potassium-40	-35.9 U	25	35.8	Filtered		STL
RD-33B		Primary	02/16/06	Potassium-40	37.9 U	---	37.9	Filtered		ES
RD-33B		Primary	02/07/07	Potassium-40	11.6 U	---	11.6	Filtered		ES
RD-33B		Primary	02/13/08	Potassium-40	34.7 U	---	34.7	Filtered		ES
RD-33C		Primary	02/27/94	Actinium-228	-6.7 U	4.2	31	Filtered		LAS
RD-33C		Primary	02/27/94	Bismuth-214	10.6 U	5.7	15	Filtered		LAS
RD-33C		Primary	02/27/94	Lead-212	2.7 U	8.8	12	Filtered		LAS
RD-33C		Primary	02/27/94	Lead-214	9.4 U	4.7	13	Filtered		LAS
RD-33C		Primary	02/27/94	Potassium-40	3 U	61	92	Filtered		LAS
RD-33C		Primary	02/27/94	Radium-226	-10 U	100	150	Filtered		LAS
RD-33C		Primary	02/27/94	Thallium-208	-7.9 U	2.9	10	Filtered		LAS
RD-33C		Primary	02/27/94	Thorium-234	5 U	28	120	Filtered		LAS
RD-33C		Primary	02/27/94	Uranium-235	-7 U	11	34	Filtered		LAS
RD-33C		Primary	05/09/94	Actinium-228	4 U	20	29	Filtered		LAS
RD-33C		Primary	05/09/94	Actinium-228	12 U	21	28	Unfiltered		LAS
RD-33C		Primary	05/09/94	Bismuth-214	28	15	18	Filtered		LAS
RD-33C		Primary	05/09/94	Bismuth-214	66	17	16	Unfiltered		LAS
RD-33C		Primary	05/09/94	Lead-212	1.1 U	8.9	12	Filtered		LAS
RD-33C		Primary	05/09/94	Lead-212	2.6 U	9.5	12	Unfiltered		LAS
RD-33C		Primary	05/09/94	Lead-214	35	12	16	Filtered		LAS

See last page of table for notes and abbreviations.

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RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-33C		Primary	05/09/94	Lead-214	60	14	14	Unfiltered		LAS
RD-33C		Primary	05/09/94	Potassium-40	-19 U	59	95	Filtered		LAS
RD-33C		Primary	05/09/94	Potassium-40	16 U	66	85	Unfiltered		LAS
RD-33C		Primary	05/09/94	Thallium-208	0.5 U	6.6	9.1	Filtered		LAS
RD-33C		Primary	05/09/94	Thallium-208	5.4 U	7.9	9.3	Unfiltered		LAS
RD-33C		Primary	05/09/94	Thorium-234	58 U	58	120	Filtered		LAS
RD-33C		Primary	05/09/94	Thorium-234	79 U	63	130	Unfiltered		LAS
RD-33C		Primary	08/17/94	Actinium-228	0 U	120	200	Filtered		LAS
RD-33C		Primary	08/17/94	Bismuth-214	37 U	71	97	Filtered		LAS
RD-33C		Primary	08/17/94	Lead-212	0 U	55	78	Filtered		LAS
RD-33C		Primary	08/17/94	Lead-214	-43 U	61	100	Filtered		LAS
RD-33C		Primary	08/17/94	Potassium-40	-220 U	420	720	Filtered		LAS
RD-33C		Primary	08/17/94	Radium-226	-130 U	630	900	Filtered		LAS
RD-33C		Primary	08/17/94	Thallium-208	2 U	45	60	Filtered		LAS
RD-33C		Primary	08/17/94	Thorium-234	-70 U	310	680	Filtered		LAS
RD-33C		Primary	08/17/94	Uranium-235	40 U	140	180	Filtered		LAS
RD-33C		Primary	02/07/95	Actinium-228	4 U	26	43	Filtered		LAS
RD-33C		Primary	02/07/95	Bismuth-214	26	16	19	Filtered		LAS
RD-33C		Primary	02/07/95	Lead-212	-10 U	11	18	Filtered		LAS
RD-33C		Primary	02/07/95	Lead-214	31	16	22	Filtered		LAS
RD-33C		Primary	02/07/95	Potassium-40	-3 U	75	120	Filtered		LAS
RD-33C		Primary	02/07/95	Thallium-208	-1.5 U	8.2	12	Filtered		LAS
RD-33C		Primary	02/07/95	Thorium-234	11 U	82	190	Filtered		LAS
RD-33C		Primary	08/09/95	Actinium-228	7 U	18	30	Filtered		LAS
RD-33C		Primary	08/09/95	Bismuth-214	8 U	14	20	Filtered		LAS
RD-33C		Primary	08/09/95	Lead-212	7 U	10	14	Filtered		LAS
RD-33C		Primary	08/09/95	Lead-214	9 U	12	19	Filtered		LAS
RD-33C		Primary	08/09/95	Potassium-40	33 U	79	110	Filtered		LAS
RD-33C		Primary	08/09/95	Thallium-208	-1.2 U	7	11	Filtered		LAS
RD-33C		Primary	08/09/95	Thorium-234	40 U	100	160	Filtered		LAS
RD-33C		Primary	02/19/96	Actinium-228	8 U	10	19	Filtered		LAS
RD-33C		Primary	02/19/96	Bismuth-214	12.7	7.7	11	Filtered		LAS
RD-33C		Primary	02/19/96	Lead-212	1.5 U	6.2	9.2	Filtered		LAS
RD-33C		Primary	02/19/96	Lead-214	20.3	7.4	10	Filtered		LAS
RD-33C		Primary	02/19/96	Potassium-40	4 U	33	51	Filtered		LAS
RD-33C		Primary	02/19/96	Thallium-208	-2.4 U	3.4	5.6	Filtered		LAS
RD-33C		Primary	02/19/96	Thorium-234	-8 U	62	220	Filtered		LAS
RD-33C		Primary	08/22/96	Actinium-228	7 U	23	39	Filtered		LAS
RD-33C		Primary	08/22/96	Bismuth-214	106	23	22	Filtered		LAS
RD-33C		Primary	08/22/96	Lead-212	4 U	10	14	Filtered		LAS
RD-33C		Primary	08/22/96	Lead-214	106	19	19	Filtered		LAS
RD-33C		Primary	08/22/96	Potassium-40	9 U	74	120	Filtered		LAS
RD-33C		Primary	08/22/96	Thallium-208	1 U	6.9	9.7	Filtered		LAS
RD-33C		Primary	08/22/96	Thorium-234	-24 U	73	190	Filtered		LAS
RD-33C		Primary	02/25/97	Actinium-228	-22 U	18	41	Filtered		LAS

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-33C		Primary	02/25/97	Bismuth-214	26	19	25	Filtered		LAS
RD-33C		Primary	02/25/97	Lead-212	6.4 U	9.5	13	Filtered		LAS
RD-33C		Primary	02/25/97	Lead-214	34	14	20	Filtered		LAS
RD-33C		Primary	02/25/97	Potassium-40	-1 U	65	110	Filtered		LAS
RD-33C		Primary	02/25/97	Thallium-208	2.1 U	6.6	9.3	Filtered		LAS
RD-33C		Primary	02/25/97	Thorium-234	49 U	74	180	Filtered		LAS
RD-33C		Primary	08/21/97	Actinium-228	0 U	21	38	Filtered		LAS
RD-33C		Primary	08/21/97	Bismuth-212	-37 U	24	69	Filtered		LAS
RD-33C		Primary	08/21/97	Bismuth-214	7 U	12	17	Filtered		LAS
RD-33C		Primary	08/21/97	Lead-210	-70 U	110	180	Filtered		LAS
RD-33C		Primary	08/21/97	Lead-212	6 U	10	15	Filtered		LAS
RD-33C		Primary	08/21/97	Lead-214	8 U	11	16	Filtered		LAS
RD-33C		Primary	08/21/97	Potassium-40	-9 U	62	97	Filtered		LAS
RD-33C		Primary	08/21/97	Thallium-208	1.5 U	6.4	9.1	Filtered		LAS
RD-33C		Primary	08/21/97	Thorium-234	19 U	79	160	Filtered		LAS
RD-33C		Primary	05/27/98	Actinium-228	64.7 U	---	64.7	Filtered		TN
RD-33C		Primary	05/27/98	Bismuth-212	116 U	---	116	Filtered		TN
RD-33C		Primary	05/27/98	Bismuth-214	27.5 U	---	27.5	Filtered		TN
RD-33C		Primary	05/27/98	Lead-210	138 U	---	138	Filtered		TN
RD-33C		Primary	05/27/98	Lead-212	18.6 U	---	18.6	Filtered		TN
RD-33C		Primary	05/27/98	Lead-214	29.1 U	---	29.1	Filtered		TN
RD-33C		Primary	05/27/98	Potassium-40	179 U	---	179	Filtered		TN
RD-33C		Primary	05/27/98	Thallium-208	13.7 U	---	13.7	Filtered		TN
RD-33C		Primary	05/27/98	Thorium-234	245 U	---	245	Filtered		TN
RD-33C		Primary	08/17/98	Actinium-228	118 U	---	118	Filtered		TN
RD-33C		Primary	08/17/98	Bismuth-212	208 U	---	208	Filtered		TN
RD-33C		Primary	08/17/98	Bismuth-214	54 U	---	54	Filtered		TN
RD-33C		Primary	08/17/98	Lead-210	274 U	---	274	Filtered		TN
RD-33C		Primary	08/17/98	Lead-212	41.1 U	---	41.1	Filtered		TN
RD-33C		Primary	08/17/98	Lead-214	47.2 U	---	47.2	Filtered		TN
RD-33C		Primary	08/17/98	Potassium-40	335 U	---	335	Filtered		TN
RD-33C		Primary	08/17/98	Thallium-208	30.2 U	---	30.2	Filtered		TN
RD-33C		Primary	08/17/98	Thorium-234	456 U	---	456	Filtered		TN
RD-33C		Primary	02/03/99	Actinium-228	50.2 U	---	50.2	Filtered		TN
RD-33C		Primary	02/03/99	Bismuth-212	91 U	---	91	Filtered		TN
RD-33C		Primary	02/03/99	Bismuth-214	22.4 U	---	22.4	Filtered		TN
RD-33C		Primary	02/03/99	Lead-210	88.8 U	64	92.5	Filtered		TN
RD-33C		Primary	02/03/99	Lead-212	24 U	---	24	Filtered		TN
RD-33C		Primary	02/03/99	Lead-214	20.8 U	---	20.8	Filtered		TN
RD-33C		Primary	02/03/99	Potassium-40	139 U	---	139	Filtered		TN
RD-33C		Primary	02/03/99	Radium-226	127 U	---	127	Filtered		TN
RD-33C		Primary	02/03/99	Thallium-208	9.78 U	---	9.78	Filtered		TN
RD-33C		Primary	02/03/99	Thorium-234	162 U	---	162	Filtered		TN
RD-33C		Primary	02/03/99	Uranium-235	38.7 U	---	38.7	Filtered		TN
RD-33C		Primary	02/09/00	Actinium-228	51.7 U	---	51.7	Filtered		TR

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-33C		Primary	02/09/00	Bismuth-212	87.2 U	---	87.2	Filtered		TR
RD-33C		Primary	02/09/00	Bismuth-214	21.5 U	---	21.5	Filtered		TR
RD-33C		Primary	02/09/00	Lead-210	2840 U	---	2840	Filtered		TR
RD-33C		Primary	02/09/00	Lead-212	18.5 U	---	18.5	Filtered		TR
RD-33C		Primary	02/09/00	Lead-214	22.2 U	---	22.2	Filtered		TR
RD-33C		Primary	02/09/00	Potassium-40	224 U	---	224	Filtered		TR
RD-33C		Primary	02/09/00	Radium-226	178 U	---	178	Filtered		TR
RD-33C		Primary	02/09/00	Thallium-208	11.7 U	---	11.7	Filtered		TR
RD-33C		Primary	02/09/00	Thorium-234	386 U	---	386	Filtered		TR
RD-33C		Primary	02/09/00	Uranium-235	70 U	---	70	Filtered		TR
RD-33C		Primary	02/17/01	Actinium-228	46.3 U	---	46.3	Filtered		ES
RD-33C		Primary	02/17/01	Bismuth-212	73.5 U	---	73.5	Filtered		ES
RD-33C		Primary	02/17/01	Bismuth-214	48.9	20	21.9	Filtered		ES
RD-33C		Primary	02/17/01	Lead-210	2280 U	---	2280	Filtered		ES
RD-33C		Primary	02/17/01	Lead-212	14.8 U	---	14.8	Filtered		ES
RD-33C		Primary	02/17/01	Lead-214	52.3	21	23.2	Filtered		ES
RD-33C		Primary	02/17/01	Potassium-40	185 U	---	185	Filtered		ES
RD-33C		Primary	02/17/01	Radium-226	158 U	---	158	Filtered		ES
RD-33C		Primary	02/17/01	Thallium-208	10.6 U	---	10.6	Filtered		ES
RD-33C		Primary	02/17/01	Thorium-234	307 U	---	307	Filtered		ES
RD-33C		Primary	02/17/01	Uranium-235	54.4 U	---	54.4	Filtered		ES
RD-33C		Primary	02/15/02	Actinium-228	5 U	5	5	Filtered		DL
RD-33C		Primary	02/15/02	Bismuth-212	3 U	3	3	Filtered		DL
RD-33C		Primary	02/15/02	Bismuth-214	5 U	5	5	Filtered		DL
RD-33C		Primary	02/15/02	Lead-210	8 U	3	8	Filtered		DL
RD-33C		Primary	02/15/02	Lead-212	3 U	3	3	Filtered		DL
RD-33C		Primary	02/15/02	Lead-214	5 U	5	5	Filtered		DL
RD-33C		Primary	02/15/02	Potassium-40	8 U	5	8	Filtered		DL
RD-33C		Primary	02/15/02	Radium-226	5 U	3.3	5	Filtered		DL
RD-33C		Primary	02/15/02	Thorium-234	5 U	5	5	Filtered		DL
RD-33C		Primary	02/15/02	Uranium-235	5 U	3	5	Filtered		DL
RD-33C		Primary	02/10/03	Actinium-228	11.8 U	---	11.8	Filtered		ES
RD-33C		Primary	02/10/03	Bismuth-212	18.9 U	---	18.9	Filtered		ES
RD-33C		Primary	02/10/03	Bismuth-214	5.06 U	---	5.06	Filtered		ES
RD-33C		Primary	02/10/03	Lead-210	550 U	---	550	Filtered		ES
RD-33C		Primary	02/10/03	Lead-212	3.4 U	---	3.4	Filtered		ES
RD-33C		Primary	02/10/03	Lead-214	4.82 U	---	4.82	Filtered		ES
RD-33C		Primary	02/10/03	Potassium-40	71.6	61	25.6	Filtered		ES
RD-33C		Primary	02/10/03	Radium-226	63.4 U	---	63.4	Filtered		ES
RD-33C		Primary	02/10/03	Thorium-234	76.5 U	---	76.5	Filtered		ES
RD-33C		Primary	02/10/03	Uranium-235	14.8 U	---	14.8	Filtered		ES
RD-33C		Primary	11/04/04	Potassium-40	37.4 U	---	37.4	Filtered		ES
RD-33C		Split	11/04/04	Potassium-40	-16.4 U	13	16.4	Filtered		STL
RD-33C		Primary	02/16/05	Potassium-40	14.6 U	---	14.6	Filtered		ES
RD-33C		Primary	02/16/06	Potassium-40	22.3 U	---	22.3	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-33C		Primary	02/06/07	Potassium-40	7.89 U	---	7.89	Filtered		ES
RD-33C		Primary	02/12/08	Potassium-40	41.2 U	---	41.2	Filtered		ES
RD-34A		Primary	11/18/93	Actinium-228	15.1 U	---	15.1	Filtered		LAS
RD-34A		Primary	11/18/93	Bismuth-212	57.6 U	---	57.6	Filtered		LAS
RD-34A		Primary	11/18/93	Bismuth-214	67.236	11.34	---	Filtered		LAS
RD-34A		Primary	11/18/93	Lead-210	115 U	---	115	Filtered		LAS
RD-34A		Primary	11/18/93	Lead-212	10.8 U	---	10.8	Filtered		LAS
RD-34A		Primary	11/18/93	Lead-214	79.345	11.46	---	Filtered		LAS
RD-34A		Primary	11/18/93	Potassium-40	57.3 U	---	57.3	Filtered		LAS
RD-34A		Primary	11/18/93	Thallium-208	5.57 U	---	5.57	Filtered		LAS
RD-34A		Primary	11/18/93	Thorium-234	113 U	---	113	Filtered		LAS
RD-34A		Primary	11/18/93	Uranium-235	6.19 U	---	6.19	Filtered		LAS
RD-34A		Reanalysis of Primary	02/26/94	Actinium-228	1.7 U	8.3	14	Filtered		LAS
RD-34A		Reanalysis of Primary	02/26/94	Bismuth-214	6.6 U	5.6	7.9	Filtered		LAS
RD-34A		Reanalysis of Primary	02/26/94	Lead-212	7.4	5	6.7	Filtered		LAS
RD-34A		Reanalysis of Primary	02/26/94	Lead-214	3.5 U	4.9	7.6	Filtered		LAS
RD-34A		Reanalysis of Primary	02/26/94	Potassium-40	-17 U	28	46	Filtered		LAS
RD-34A		Reanalysis of Primary	02/26/94	Radium-226	15 U	48	66	Filtered		LAS
RD-34A		Reanalysis of Primary	02/26/94	Thallium-208	0.3 U	3.2	4.5	Filtered		LAS
RD-34A		Reanalysis of Primary	02/26/94	Thorium-234	23 U	37	110	Filtered		LAS
RD-34A		Reanalysis of Primary	02/26/94	Uranium-235	-7 U	13	20	Filtered		LAS
RD-34A		Primary	05/09/94	Actinium-228	13 U	21	35	Filtered		LAS
RD-34A		Primary	05/09/94	Actinium-228	-3 U	13	38	Unfiltered		LAS
RD-34A		Primary	05/09/94	Bismuth-214	329	43	19	Filtered		LAS
RD-34A		Primary	05/09/94	Bismuth-214	517	60	18	Unfiltered		LAS
RD-34A		Primary	05/09/94	Lead-212	6 U	10	14	Filtered		LAS
RD-34A		Primary	05/09/94	Lead-212	3 U	11	16	Unfiltered		LAS
RD-34A		Primary	05/09/94	Lead-214	366	35	18	Filtered		LAS
RD-34A		Primary	05/09/94	Lead-214	586	50	19	Unfiltered		LAS
RD-34A		Primary	05/09/94	Potassium-40	15 U	70	100	Filtered		LAS
RD-34A		Primary	05/09/94	Potassium-40	-33 U	77	120	Unfiltered		LAS
RD-34A		Primary	05/09/94	Thallium-208	-1 U	6.8	9.6	Filtered		LAS
RD-34A		Primary	05/09/94	Thallium-208	-0.3 U	8	11	Unfiltered		LAS
RD-34A		Primary	05/09/94	Thorium-234	90 U	65	140	Filtered		LAS
RD-34A		Primary	05/09/94	Thorium-234	139 U	72	150	Unfiltered		LAS
RD-34A		Primary	08/09/94	Actinium-228	82	20	27	Filtered		LAS
RD-34A		Reanalysis of Primary	08/09/94	Actinium-228	-18 U	17	42	Filtered		LAS
RD-34A		Primary	08/09/94	Bismuth-214	55	14	16	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-34A		Reanalysis of Primary	08/09/94	Bismuth-214	-2 U	14	24	Filtered		LAS
RD-34A		Primary	08/09/94	Lead-212	6.4 U	8.9	13	Filtered		LAS
RD-34A		Reanalysis of Primary	08/09/94	Lead-212	8 U	10	15	Filtered		LAS
RD-34A		Primary	08/09/94	Lead-214	378	33	15	Filtered		LAS
RD-34A		Reanalysis of Primary	08/09/94	Lead-214	-7.8 U	9	19	Filtered		LAS
RD-34A		Primary	08/09/94	Potassium-40	1400	190	77	Filtered		LAS
RD-34A		Reanalysis of Primary	08/09/94	Potassium-40	-3 U	66	110	Filtered		LAS
RD-34A		Primary	08/09/94	Radium-226	-126 U	94	130	Filtered		LAS
RD-34A		Reanalysis of Primary	08/09/94	Radium-226	20 U	120	180	Filtered		LAS
RD-34A		Primary	08/09/94	Thallium-208	29.4	7.5	7.8	Filtered		LAS
RD-34A		Reanalysis of Primary	08/09/94	Thallium-208	1.2 U	8.4	12	Filtered		LAS
RD-34A		Primary	08/09/94	Thorium-234	38 U	70	230	Filtered		LAS
RD-34A		Reanalysis of Primary	08/09/94	Thorium-234	30 U	68	160	Filtered		LAS
RD-34A		Primary	08/09/94	Uranium-235	4 U	28	43	Filtered		LAS
RD-34A		Reanalysis of Primary	08/09/94	Uranium-235	-12 U	28	44	Filtered		LAS
RD-34A		Primary	02/07/95	Actinium-228	-5 U	10	39	Filtered		LAS
RD-34A		Primary	02/07/95	Bismuth-214	97	23	21	Filtered		LAS
RD-34A		Primary	02/07/95	Lead-212	-3 U	11	17	Filtered		LAS
RD-34A		Primary	02/07/95	Lead-214	91	19	21	Filtered		LAS
RD-34A		Primary	02/07/95	Potassium-40	-4 U	82	130	Filtered		LAS
RD-34A		Primary	02/07/95	Thallium-208	0.4 U	7.5	11	Filtered		LAS
RD-34A		Primary	02/07/95	Thorium-234	-17 U	70	160	Filtered		LAS
RD-34A		Primary	08/09/95	Actinium-228	-6 U	13	43	Filtered		LAS
RD-34A		Primary	08/09/95	Bismuth-214	25	16	21	Filtered		LAS
RD-34A		Primary	08/09/95	Lead-212	2.9 U	9.7	14	Filtered		LAS
RD-34A		Primary	08/09/95	Lead-214	20	13	18	Filtered		LAS
RD-34A		Primary	08/09/95	Potassium-40	49 U	82	110	Filtered		LAS
RD-34A		Primary	08/09/95	Thallium-208	-1.3 U	6.7	10	Filtered		LAS
RD-34A		Primary	08/09/95	Thorium-234	-25 U	66	160	Filtered		LAS
RD-34A		Primary	02/19/96	Actinium-228	-14 U	13	44	Filtered		LAS
RD-34A		Primary	02/19/96	Bismuth-214	149	28	22	Filtered		LAS
RD-34A		Primary	02/19/96	Lead-212	7 U	11	15	Filtered		LAS
RD-34A		Primary	02/19/96	Lead-214	115	20	19	Filtered		LAS
RD-34A		Primary	02/19/96	Potassium-40	30 U	68	100	Filtered		LAS
RD-34A		Primary	02/19/96	Thallium-208	4.9 U	7.6	11	Filtered		LAS
RD-34A		Primary	02/19/96	Thorium-234	67 U	76	200	Filtered		LAS
RD-34A		Primary	08/18/96	Actinium-228	8 U	24	44	Filtered		LAS
RD-34A		Primary	08/18/96	Bismuth-214	149	28	20	Filtered		LAS
RD-34A		Primary	08/18/96	Lead-212	1 U	10	15	Filtered		LAS
RD-34A		Primary	08/18/96	Lead-214	160	23	19	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-34A		Primary	08/18/96	Potassium-40	-51 U	18	130	Filtered		LAS
RD-34A		Primary	08/18/96	Thallium-208	-0.6 U	7.3	11	Filtered		LAS
RD-34A		Primary	08/18/96	Thorium-234	-1 U	76	210	Filtered		LAS
RD-34A		Primary	02/07/97	Actinium-228	0 U	13	23	Filtered		LAS
RD-34A		Primary	02/07/97	Bismuth-214	626	65	19	Filtered		LAS
RD-34A		Primary	02/07/97	Lead-212	0.1 U	8.3	13	Filtered		LAS
RD-34A		Primary	02/07/97	Lead-214	808	62	14	Filtered		LAS
RD-34A		Primary	02/07/97	Potassium-40	-25 U	42	71	Filtered		LAS
RD-34A		Primary	02/07/97	Thallium-208	0.2 U	4.4	6.6	Filtered		LAS
RD-34A		Primary	02/07/97	Thorium-234	-114 U	76	370	Filtered		LAS
RD-34A		Primary	05/27/98	Actinium-228	62.4 U	---	62.4	Filtered		TN
RD-34A		Primary	05/27/98	Bismuth-212	112 U	---	112	Filtered		TN
RD-34A		Primary	05/27/98	Bismuth-214	27.3 U	---	27.3	Filtered		TN
RD-34A		Primary	05/27/98	Lead-210	742 U	---	742	Filtered		TN
RD-34A		Primary	05/27/98	Lead-212	35.9 U	---	35.9	Filtered		TN
RD-34A		Primary	05/27/98	Lead-214	28.4 U	---	28.4	Filtered		TN
RD-34A		Primary	05/27/98	Potassium-40	253 U	---	253	Filtered		TN
RD-34A		Primary	05/27/98	Thallium-208	13.3 U	---	13.3	Filtered		TN
RD-34A		Primary	05/27/98	Thorium-234	311 U	---	311	Filtered		TN
RD-34A		Primary	08/18/98	Actinium-228	48.9 U	---	48.9	Filtered		TN
RD-34A		Primary	08/18/98	Bismuth-212	83.2 U	---	83.2	Filtered		TN
RD-34A		Primary	08/18/98	Bismuth-214	26.9 U	---	26.9	Filtered		TN
RD-34A		Primary	08/18/98	Lead-210	622 U	---	622	Filtered		TN
RD-34A		Primary	08/18/98	Lead-212	19 U	---	19	Filtered		TN
RD-34A		Primary	08/18/98	Lead-214	23.6 U	---	23.6	Filtered		TN
RD-34A		Primary	08/18/98	Potassium-40	144 U	---	144	Filtered		TN
RD-34A		Primary	08/18/98	Thallium-208	13.5 U	---	13.5	Filtered		TN
RD-34A		Primary	08/18/98	Thorium-234	347 U	---	347	Filtered		TN
RD-34A		Primary	05/09/01	Actinium-228	32.3 U	---	32.3	Filtered		ES
RD-34A		Primary	05/09/01	Bismuth-212	53.1 U	---	53.1	Filtered		ES
RD-34A		Primary	05/09/01	Bismuth-214	12.2 U	11	12.9	Filtered		ES
RD-34A		Primary	05/09/01	Lead-210	424 U	---	424	Filtered		ES
RD-34A		Primary	05/09/01	Lead-212	10.2 U	---	10.2	Filtered		ES
RD-34A		Primary	05/09/01	Lead-214	14.2 U	---	14.2	Filtered		ES
RD-34A		Primary	05/09/01	Potassium-40	71.3 U	---	71.3	Filtered		ES
RD-34A		Primary	05/09/01	Radium-226	110 U	---	110	Filtered		ES
RD-34A		Primary	05/09/01	Thallium-208	7.31 U	---	7.31	Filtered		ES
RD-34A		Primary	05/09/01	Thorium-234	188 U	---	188	Filtered		ES
RD-34A		Primary	05/09/01	Uranium-235	34.6 U	---	34.6	Filtered		ES
RD-34A		Primary	05/16/03	Actinium-228	4.11 U	---	4.11	Filtered		ES
RD-34A		Primary	05/16/03	Bismuth-212	7.08 U	---	7.08	Filtered		ES
RD-34A		Primary	05/16/03	Bismuth-214	1.88 U	---	1.88	Filtered		ES
RD-34A		Primary	05/16/03	Lead-210	53.4 U	---	53.4	Filtered		ES
RD-34A		Primary	05/16/03	Lead-212	1.45 U	---	1.45	Filtered		ES
RD-34A		Primary	05/16/03	Lead-214	1.71 U	---	1.71	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-34A		Primary	05/16/03	Potassium-40	11.2 U	---	11.2	Filtered		ES
RD-34A		Primary	05/16/03	Radium-226	23.2 U	---	23.2	Filtered		ES
RD-34A		Primary	05/16/03	Thorium-234	25.4 U	---	25.4	Filtered		ES
RD-34A		Primary	05/16/03	Uranium-235	4.68 U	---	4.68	Filtered		ES
RD-34A		Primary	05/17/04	Actinium-228	51 U	---	51	Filtered		ES
RD-34A		Primary	05/17/04	Bismuth-212	96.2 U	---	96.2	Filtered		ES
RD-34A		Primary	05/17/04	Bismuth-214	25.5 U	---	25.5	Filtered		ES
RD-34A		Primary	05/17/04	Lead-210	2740 U	---	2740	Filtered		ES
RD-34A		Primary	05/17/04	Lead-212	18.1 U	---	18.1	Filtered		ES
RD-34A		Primary	05/17/04	Lead-214	26.5 U	---	26.5	Filtered		ES
RD-34A		Primary	05/17/04	Potassium-40	306 U	---	306	Filtered		ES
RD-34A		Primary	05/17/04	Radium-226	268 U	---	268	Filtered		ES
RD-34A		Primary	05/17/04	Thallium-208	12.3 U	---	12.3	Filtered		ES
RD-34A		Primary	05/17/04	Thorium-234	368 U	---	368	Filtered		ES
RD-34A		Primary	05/17/04	Uranium-235	69.2 U	---	69.2	Filtered		ES
RD-34A		Primary	02/17/05	Potassium-40	14.8 U	---	14.8	Filtered		ES
RD-34A		Primary	02/21/06	Potassium-40	24.5 U	---	24.5	Filtered		ES
RD-34A		Primary	02/15/07	Potassium-40	22.4 U	---	22.4	Filtered		ES
RD-34A		Primary	02/06/08	Potassium-40	14 U	---	14	Filtered		ES
RD-34B		Primary	02/26/94	Actinium-228	1.3 U	9	29	Filtered		LAS
RD-34B		Primary	02/26/94	Bismuth-214	-1.2 U	5.4	16	Filtered		LAS
RD-34B		Primary	02/26/94	Lead-212	11.7 U	9.4	12	Filtered		LAS
RD-34B		Primary	02/26/94	Lead-214	-6.4 U	1.8	14	Filtered		LAS
RD-34B		Primary	02/26/94	Potassium-40	18 U	62	90	Filtered		LAS
RD-34B		Primary	02/26/94	Radium-226	14 U	95	140	Filtered		LAS
RD-34B		Primary	02/26/94	Thallium-208	-4.4 U	7	10	Filtered		LAS
RD-34B		Primary	02/26/94	Thorium-234	-5 U	28	120	Filtered		LAS
RD-34B		Primary	02/26/94	Uranium-235	0 U	12	34	Filtered		LAS
RD-34B		Primary	05/10/94	Actinium-228	5 U	11	19	Filtered		LAS
RD-34B		Primary	05/10/94	Actinium-228	3 U	20	36	Unfiltered		LAS
RD-34B		Primary	05/10/94	Bismuth-214	55	11	11	Filtered		LAS
RD-34B		Primary	05/10/94	Bismuth-214	126	23	17	Unfiltered		LAS
RD-34B		Primary	05/10/94	Lead-212	5.3 U	6.3	8.6	Filtered		LAS
RD-34B		Primary	05/10/94	Lead-212	5 U	9.2	12	Unfiltered		LAS
RD-34B		Primary	05/10/94	Lead-214	63.9	9.6	9.8	Filtered		LAS
RD-34B		Primary	05/10/94	Lead-214	147	20	15	Unfiltered		LAS
RD-34B		Primary	05/10/94	Potassium-40	21 U	39	60	Filtered		LAS
RD-34B		Primary	05/10/94	Potassium-40	23 U	65	93	Unfiltered		LAS
RD-34B		Primary	05/10/94	Thallium-208	2.6 U	3.9	5.4	Filtered		LAS
RD-34B		Primary	05/10/94	Thallium-208	3.2 U	6.6	8.7	Unfiltered		LAS
RD-34B		Primary	05/10/94	Thorium-234	34 U	51	150	Filtered		LAS
RD-34B		Primary	05/10/94	Thorium-234	-9 U	58	130	Unfiltered		LAS
RD-34B		Primary	08/09/94	Actinium-228	-19.2 U	9.8	36	Filtered		LAS
RD-34B		Primary	08/09/94	Bismuth-214	8 U	12	16	Filtered		LAS
RD-34B		Primary	08/09/94	Lead-212	4.7 U	8.9	12	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-34B		Primary	08/09/94	Lead-214	3.5 U	9.4	14	Filtered		LAS
RD-34B		Primary	08/09/94	Potassium-40	15 U	55	78	Filtered		LAS
RD-34B		Primary	08/09/94	Radium-226	-140 U	100	150	Filtered		LAS
RD-34B		Primary	08/09/94	Thallium-208	2.8 U	6.9	9.1	Filtered		LAS
RD-34B		Primary	08/09/94	Thorium-234	0 U	56	130	Filtered		LAS
RD-34B		Primary	08/09/94	Uranium-235	7 U	24	34	Filtered		LAS
RD-34B		Primary	02/07/95	Actinium-228	3 U	27	50	Filtered		LAS
RD-34B		Primary	02/07/95	Bismuth-214	23 U	19	26	Filtered		LAS
RD-34B		Primary	02/07/95	Lead-212	10 U	13	18	Filtered		LAS
RD-34B		Primary	02/07/95	Lead-214	23	15	21	Filtered		LAS
RD-34B		Primary	02/07/95	Potassium-40	-1 U	86	140	Filtered		LAS
RD-34B		Primary	02/07/95	Thallium-208	1.6 U	8.3	12	Filtered		LAS
RD-34B		Primary	02/07/95	Thorium-234	5 U	83	200	Filtered		LAS
RD-34B		Primary	08/10/95	Actinium-228	12 U	19	39	Filtered		LAS
RD-34B		Primary	08/10/95	Bismuth-214	13 U	14	20	Filtered		LAS
RD-34B		Primary	08/10/95	Lead-212	1 U	10	15	Filtered		LAS
RD-34B		Primary	08/10/95	Lead-214	12 U	12	17	Filtered		LAS
RD-34B		Primary	08/10/95	Potassium-40	30 U	71	100	Filtered		LAS
RD-34B		Primary	08/10/95	Thallium-208	3.1 U	6.2	8.6	Filtered		LAS
RD-34B		Primary	08/10/95	Thorium-234	-20 U	100	160	Filtered		LAS
RD-34B		Primary	02/19/96	Actinium-228	9 U	22	38	Filtered		LAS
RD-34B		Primary	02/19/96	Bismuth-214	68	19	18	Filtered		LAS
RD-34B		Primary	02/19/96	Lead-212	2.9 U	9.9	14	Filtered		LAS
RD-34B		Primary	02/19/96	Lead-214	62	16	17	Filtered		LAS
RD-34B		Primary	02/19/96	Potassium-40	64 U	78	110	Filtered		LAS
RD-34B		Primary	02/19/96	Thallium-208	-3.5 U	7.2	11	Filtered		LAS
RD-34B		Primary	02/19/96	Thorium-234	20 U	70	180	Filtered		LAS
RD-34B		Primary	08/18/96	Actinium-228	16 U	20	34	Filtered		LAS
RD-34B		Primary	08/18/96	Bismuth-214	33	17	23	Filtered		LAS
RD-34B		Primary	08/18/96	Lead-212	1.4 U	9.6	14	Filtered		LAS
RD-34B		Primary	08/18/96	Lead-214	46	15	20	Filtered		LAS
RD-34B		Primary	08/18/96	Potassium-40	16 U	70	110	Filtered		LAS
RD-34B		Primary	08/18/96	Thallium-208	1.7 U	7.3	10	Filtered		LAS
RD-34B		Primary	08/18/96	Thorium-234	20 U	120	190	Filtered		LAS
RD-34B		Primary	02/07/97	Actinium-228	8 U	24	38	Filtered		LAS
RD-34B		Primary	02/07/97	Bismuth-214	217	35	21	Filtered		LAS
RD-34B		Primary	02/07/97	Lead-212	-1 U	11	16	Filtered		LAS
RD-34B		Primary	02/07/97	Lead-214	234	28	20	Filtered		LAS
RD-34B		Primary	02/07/97	Potassium-40	50 U	78	110	Filtered		LAS
RD-34B		Primary	02/07/97	Thallium-208	-1.9 U	7.4	11	Filtered		LAS
RD-34B		Primary	02/07/97	Thorium-234	80 U	140	210	Filtered		LAS
RD-34B		Primary	08/21/97	Actinium-228	1 U	21	40	Filtered		LAS
RD-34B		Primary	08/21/97	Bismuth-212	-11 U	17	60	Filtered		LAS
RD-34B		Primary	08/21/97	Bismuth-214	65	19	17	Filtered		LAS
RD-34B		Primary	08/21/97	Lead-210	10 U	110	180	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-34B		Primary	08/21/97	Lead-212	8 U	10	14	Filtered		LAS
RD-34B		Primary	08/21/97	Lead-214	80	17	18	Filtered		LAS
RD-34B		Primary	08/21/97	Potassium-40	33 U	75	110	Filtered		LAS
RD-34B		Primary	08/21/97	Thallium-208	-2.7 U	6.5	10	Filtered		LAS
RD-34B		Primary	08/21/97	Thorium-234	7 U	72	140	Filtered		LAS
RD-34B		Primary	05/27/98	Actinium-228	60.2 U	---	60.2	Filtered		TN
RD-34B		Primary	05/27/98	Bismuth-212	110 U	---	110	Filtered		TN
RD-34B		Primary	05/27/98	Bismuth-214	27 U	---	27	Filtered		TN
RD-34B		Primary	05/27/98	Lead-210	118 U	---	118	Filtered		TN
RD-34B		Primary	05/27/98	Lead-212	16.9 U	---	16.9	Filtered		TN
RD-34B		Primary	05/27/98	Lead-214	24.7 U	---	24.7	Filtered		TN
RD-34B		Primary	05/27/98	Potassium-40	152 U	---	152	Filtered		TN
RD-34B		Primary	05/27/98	Radium-226	165 U	---	165	Filtered		TN
RD-34B		Primary	05/27/98	Thallium-208	13.1 U	---	13.1	Filtered		TN
RD-34B		Primary	05/27/98	Thorium-234	212 U	---	212	Filtered		TN
RD-34B		Primary	08/18/98	Actinium-228	60 U	---	60	Filtered		TN
RD-34B		Primary	08/18/98	Bismuth-212	98.5 U	---	98.5	Filtered		TN
RD-34B		Primary	08/18/98	Bismuth-214	24.6 U	---	24.6	Filtered		TN
RD-34B		Primary	08/18/98	Lead-210	609 U	---	609	Filtered		TN
RD-34B		Primary	08/18/98	Lead-212	31.7 U	---	31.7	Filtered		TN
RD-34B		Primary	08/18/98	Lead-214	27.8 U	---	27.8	Filtered		TN
RD-34B		Primary	08/18/98	Potassium-40	200 U	---	200	Filtered		TN
RD-34B		Primary	08/18/98	Thallium-208	13.8 U	---	13.8	Filtered		TN
RD-34B		Primary	08/18/98	Thorium-234	358 U	---	358	Filtered		TN
RD-34B		Primary	02/04/99	Actinium-228	64.8 U	---	64.8	Filtered		TN
RD-34B		Primary	02/04/99	Bismuth-212	98 U	---	98	Filtered		TN
RD-34B		Primary	02/04/99	Bismuth-214	26.3 U	---	26.3	Filtered		TN
RD-34B		Primary	02/04/99	Lead-210	738 U	---	738	Filtered		TN
RD-34B		Primary	02/04/99	Lead-212	32.2	26	25.9	Filtered		TN
RD-34B		Primary	02/04/99	Lead-214	27.1 U	---	27.1	Filtered		TN
RD-34B		Primary	02/04/99	Potassium-40	226 U	---	226	Filtered		TN
RD-34B		Primary	02/04/99	Radium-226	190 U	---	190	Filtered		TN
RD-34B		Primary	02/04/99	Thallium-208	13.6 U	---	13.6	Filtered		TN
RD-34B		Primary	02/04/99	Thorium-234	293 U	---	293	Filtered		TN
RD-34B		Primary	02/04/99	Uranium-235	74.5 U	---	74.5	Filtered		TN
RD-34B		Primary	02/05/00	Actinium-228	55.2 U	---	55.2	Filtered		TR
RD-34B		Primary	02/05/00	Bismuth-212	97.1 U	---	97.1	Filtered		TR
RD-34B		Primary	02/05/00	Bismuth-214	25.2 U	---	25.2	Filtered		TR
RD-34B		Primary	02/05/00	Lead-210	856 U	---	856	Filtered		TR
RD-34B		Primary	02/05/00	Lead-212	31.8 U	---	31.8	Filtered		TR
RD-34B		Primary	02/05/00	Lead-214	21.8 U	---	21.8	Filtered		TR
RD-34B		Primary	02/05/00	Potassium-40	215 U	---	215	Filtered		TR
RD-34B		Primary	02/05/00	Thallium-208	13.6 U	---	13.6	Filtered		TR
RD-34B		Primary	02/05/00	Thorium-234	297 U	---	297	Filtered		TR
RD-34B		Primary	02/05/00	Uranium-235	62.1 U	---	62.1	Filtered		TR

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-34B		Primary	02/16/01	Actinium-228	65.5 U	---	65.5	Filtered		ES
RD-34B		Primary	02/16/01	Bismuth-212	105 U	---	105	Filtered		ES
RD-34B		Primary	02/16/01	Bismuth-214	38.3 U	---	38.3	Filtered		ES
RD-34B		Primary	02/16/01	Lead-210	532 U	---	532	Filtered		ES
RD-34B		Primary	02/16/01	Lead-212	20.3 U	---	20.3	Filtered		ES
RD-34B		Primary	02/16/01	Lead-214	35.5 U	---	35.5	Filtered		ES
RD-34B		Primary	02/16/01	Potassium-40	394 U	---	394	Filtered		ES
RD-34B		Primary	02/16/01	Radium-226	200 U	---	200	Filtered		ES
RD-34B		Primary	02/16/01	Thallium-208	15.3 U	---	15.3	Filtered		ES
RD-34B		Primary	02/16/01	Thorium-234	242 U	---	242	Filtered		ES
RD-34B		Primary	02/16/01	Uranium-235	66.1 U	---	66.1	Filtered		ES
RD-34B		Primary	02/15/02	Actinium-228	5 U	5	5	Filtered		DL
RD-34B		Primary	02/15/02	Bismuth-212	5 U	3	5	Filtered		DL
RD-34B		Primary	02/15/02	Bismuth-214	5 U	3	5	Filtered		DL
RD-34B		Primary	02/15/02	Lead-210	5 U	3	5	Filtered		DL
RD-34B		Primary	02/15/02	Lead-212	5 U	3	5	Filtered		DL
RD-34B		Primary	02/15/02	Lead-214	5 U	3	5	Filtered		DL
RD-34B		Primary	02/15/02	Potassium-40	5 U	3	5	Filtered		DL
RD-34B		Primary	02/15/02	Radium-226	5 U	5	5	Filtered		DL
RD-34B		Primary	02/15/02	Thorium-234	5 U	5	5	Filtered		DL
RD-34B		Primary	02/15/02	Uranium-235	5 U	3	5	Filtered		DL
RD-34B		Primary	02/06/03	Actinium-228	10.6 U	---	10.6	Filtered		ES
RD-34B		Primary	02/06/03	Bismuth-212	17.6 U	---	17.6	Filtered		ES
RD-34B		Primary	02/06/03	Bismuth-214	4.38 U	---	4.38	Filtered		ES
RD-34B		Primary	02/06/03	Lead-210	167 U	---	167	Filtered		ES
RD-34B		Primary	02/06/03	Lead-212	3.38 U	---	3.38	Filtered		ES
RD-34B		Primary	02/06/03	Lead-214	4.57 U	---	4.57	Filtered		ES
RD-34B		Primary	02/06/03	Potassium-40	39.2 U	---	39.2	Filtered		ES
RD-34B		Primary	02/06/03	Radium-226	34.2 U	---	34.2	Filtered		ES
RD-34B		Primary	02/06/03	Thorium-234	51.7 U	---	51.7	Filtered		ES
RD-34B		Primary	02/06/03	Uranium-235	12.9 U	---	12.9	Filtered		ES
RD-34B		Primary	02/24/04	Actinium-228	41.4 U	---	41.4	Filtered		ES
RD-34B		Primary	02/24/04	Bismuth-212	71.5 U	---	71.5	Filtered		ES
RD-34B		Primary	02/24/04	Bismuth-214	18 U	---	18	Filtered		ES
RD-34B		Primary	02/24/04	Lead-210	652 U	---	652	Filtered		ES
RD-34B		Primary	02/24/04	Lead-212	14.6 U	---	14.6	Filtered		ES
RD-34B		Primary	02/24/04	Lead-214	18.3 U	---	18.3	Filtered		ES
RD-34B		Primary	02/24/04	Potassium-40	166 U	---	166	Filtered		ES
RD-34B		Primary	02/24/04	Radium-226	130 U	---	130	Filtered		ES
RD-34B		Primary	02/24/04	Thallium-208	10.4 U	---	10.4	Filtered		ES
RD-34B		Primary	02/24/04	Thorium-234	207 U	---	207	Filtered		ES
RD-34B		Primary	02/24/04	Uranium-235	46.9 U	---	46.9	Filtered		ES
RD-34B		Primary	02/15/05	Potassium-40	29.7 J	19	13.7	Filtered		ES
RD-34B		Primary	02/17/06	Potassium-40	18.9 U	---	18.9	Filtered		ES
RD-34B		Primary	08/14/07	Potassium-40	6.83 U	---	6.83	Filtered		ES

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-34B		Primary	02/06/08	Potassium-40	34.8 U	---	34.8	Filtered		ES
RD-34C		Primary	02/26/94	Actinium-228	-9.6 U	4.4	32	Filtered		LAS
RD-34C		Primary	02/26/94	Bismuth-214	-1.2 U	5.5	16	Filtered		LAS
RD-34C		Primary	02/26/94	Lead-212	-1.7 U	9	13	Filtered		LAS
RD-34C		Primary	02/26/94	Lead-214	1.7 U	4.8	14	Filtered		LAS
RD-34C		Primary	02/26/94	Potassium-40	10 U	56	82	Filtered		LAS
RD-34C		Primary	02/26/94	Radium-226	30 U	99	140	Filtered		LAS
RD-34C		Primary	02/26/94	Thallium-208	-2.1 U	7	10	Filtered		LAS
RD-34C		Primary	02/26/94	Thorium-234	2 U	28	120	Filtered		LAS
RD-34C		Primary	02/26/94	Uranium-235	-2.7 U	9.2	34	Filtered		LAS
RD-34C		Primary	05/09/94	Actinium-228	-2 U	11	28	Filtered		LAS
RD-34C		Primary	05/09/94	Actinium-228	-7 U	13	35	Unfiltered		LAS
RD-34C		Primary	05/09/94	Bismuth-214	32	14	14	Filtered		LAS
RD-34C		Primary	05/09/94	Bismuth-214	95	20	16	Unfiltered		LAS
RD-34C		Primary	05/09/94	Lead-212	-4 U	8.8	13	Filtered		LAS
RD-34C		Primary	05/09/94	Lead-212	11 U	10	14	Unfiltered		LAS
RD-34C		Primary	05/09/94	Lead-214	28	11	14	Filtered		LAS
RD-34C		Primary	05/09/94	Lead-214	78	15	15	Unfiltered		LAS
RD-34C		Primary	05/09/94	Potassium-40	-42 U	56	97	Filtered		LAS
RD-34C		Primary	05/09/94	Potassium-40	-52 U	62	110	Unfiltered		LAS
RD-34C		Primary	05/09/94	Thallium-208	-0.6 U	6.7	9.4	Filtered		LAS
RD-34C		Primary	05/09/94	Thallium-208	1.5 U	7.1	9.6	Unfiltered		LAS
RD-34C		Primary	05/09/94	Thorium-234	0 U	54	120	Filtered		LAS
RD-34C		Primary	05/09/94	Thorium-234	20 U	60	130	Unfiltered		LAS
RD-34C		Primary	08/09/94	Actinium-228	9 U	18	29	Filtered		LAS
RD-34C		Primary	08/09/94	Bismuth-214	7 U	11	15	Filtered		LAS
RD-34C		Primary	08/09/94	Lead-212	1 U	8.8	12	Filtered		LAS
RD-34C		Primary	08/09/94	Lead-214	6.8 U	9.5	14	Filtered		LAS
RD-34C		Primary	08/09/94	Potassium-40	7 U	56	82	Filtered		LAS
RD-34C		Primary	08/09/94	Radium-226	-57 U	98	150	Filtered		LAS
RD-34C		Primary	08/09/94	Thallium-208	0.6 U	6.1	8.3	Filtered		LAS
RD-34C		Primary	08/09/94	Thorium-234	33 U	57	130	Filtered		LAS
RD-34C		Primary	08/09/94	Uranium-235	-11 U	23	35	Filtered		LAS
RD-34C		Primary	02/07/95	Actinium-228	-13 U	18	38	Filtered		LAS
RD-34C		Primary	02/07/95	Bismuth-214	25	18	24	Filtered		LAS
RD-34C		Primary	02/07/95	Lead-212	10 U	11	16	Filtered		LAS
RD-34C		Primary	02/07/95	Lead-214	10 U	13	20	Filtered		LAS
RD-34C		Primary	02/07/95	Potassium-40	-51 U	29	130	Filtered		LAS
RD-34C		Primary	02/07/95	Thallium-208	1.5 U	8.5	13	Filtered		LAS
RD-34C		Primary	02/07/95	Thorium-234	-16 U	74	180	Filtered		LAS
RD-34C		Primary	08/10/95	Actinium-228	1 U	21	39	Filtered		LAS
RD-34C		Primary	08/10/95	Bismuth-214	2 U	12	18	Filtered		LAS
RD-34C		Primary	08/10/95	Lead-212	-6.8 U	9.4	15	Filtered		LAS
RD-34C		Primary	08/10/95	Lead-214	4 U	11	17	Filtered		LAS
RD-34C		Primary	08/10/95	Potassium-40	23 U	72	110	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-34C		Primary	08/10/95	Thallium-208	-1.5 U	6.9	11	Filtered		LAS
RD-34C		Primary	08/10/95	Thorium-234	10 U	100	160	Filtered		LAS
RD-34C		Primary	02/19/96	Actinium-228	6.6 U	9.8	16	Filtered		LAS
RD-34C		Primary	02/19/96	Bismuth-214	15.1	7.8	11	Filtered		LAS
RD-34C		Primary	02/19/96	Lead-212	-1.4 U	6.1	9.3	Filtered		LAS
RD-34C		Primary	02/19/96	Lead-214	12.7	6.9	10	Filtered		LAS
RD-34C		Primary	02/19/96	Potassium-40	18 U	38	56	Filtered		LAS
RD-34C		Primary	02/19/96	Thallium-208	2.4 U	3.7	5.3	Filtered		LAS
RD-34C		Primary	02/19/96	Thorium-234	-11 U	61	230	Filtered		LAS
RD-34C		Primary	08/19/96	Actinium-228	-8 U	12	39	Filtered		LAS
RD-34C		Primary	08/19/96	Bismuth-214	16 U	13	18	Filtered		LAS
RD-34C		Primary	08/19/96	Lead-212	89	17	14	Filtered		LAS
RD-34C		Primary	08/19/96	Lead-214	18 U	13	19	Filtered		LAS
RD-34C		Primary	08/19/96	Potassium-40	-73 U	28	130	Filtered		LAS
RD-34C		Primary	08/19/96	Thallium-208	27	10	10	Filtered		LAS
RD-34C		Primary	08/19/96	Thorium-234	3 U	74	190	Filtered		LAS
RD-34C		Primary	02/07/97	Actinium-228	2 U	10	17	Filtered		LAS
RD-34C		Primary	02/07/97	Bismuth-214	58	12	10	Filtered		LAS
RD-34C		Primary	02/07/97	Lead-212	2 U	6.5	9.6	Filtered		LAS
RD-34C		Primary	02/07/97	Lead-214	78	11	10	Filtered		LAS
RD-34C		Primary	02/07/97	Potassium-40	6 U	35	57	Filtered		LAS
RD-34C		Primary	02/07/97	Thallium-208	-0.3 U	3.4	5.1	Filtered		LAS
RD-34C		Primary	02/07/97	Thorium-234	-27 U	63	240	Filtered		LAS
RD-34C		Primary	08/21/97	Actinium-228	8 U	20	44	Filtered		LAS
RD-34C		Primary	08/21/97	Bismuth-212	17 U	48	64	Filtered		LAS
RD-34C		Primary	08/21/97	Bismuth-214	14 U	15	20	Filtered		LAS
RD-34C		Primary	08/21/97	Lead-210	-30 U	110	180	Filtered		LAS
RD-34C		Primary	08/21/97	Lead-212	-2.7 U	9.3	14	Filtered		LAS
RD-34C		Primary	08/21/97	Lead-214	12 U	12	19	Filtered		LAS
RD-34C		Primary	08/21/97	Potassium-40	36 U	73	110	Filtered		LAS
RD-34C		Primary	08/21/97	Thallium-208	-1.4 U	7	11	Filtered		LAS
RD-34C		Primary	08/21/97	Thorium-234	2 U	74	140	Filtered		LAS
RD-34C		Primary	05/27/98	Actinium-228	37.6 U	---	37.6	Filtered		TN
RD-34C		Primary	05/27/98	Bismuth-212	62.7 U	---	62.7	Filtered		TN
RD-34C		Primary	05/27/98	Bismuth-214	27.7 U	---	27.7	Filtered		TN
RD-34C		Primary	05/27/98	Lead-210	500 U	---	500	Filtered		TN
RD-34C		Primary	05/27/98	Lead-212	26.9 U	---	26.9	Filtered		TN
RD-34C		Primary	05/27/98	Lead-214	42.9 U	---	42.9	Filtered		TN
RD-34C		Primary	05/27/98	Potassium-40	158 U	---	158	Filtered		TN
RD-34C		Primary	05/27/98	Thallium-208	9.49 U	---	9.49	Filtered		TN
RD-34C		Primary	05/27/98	Thorium-234	200 U	---	200	Filtered		TN
RD-34C		Primary	08/17/98	Actinium-228	42 U	---	42	Filtered		TN
RD-34C		Primary	08/17/98	Bismuth-212	95.6 U	---	95.6	Filtered		TN
RD-34C		Primary	08/17/98	Bismuth-214	25.5 U	---	25.5	Filtered		TN
RD-34C		Primary	08/17/98	Lead-210	577 U	---	577	Filtered		TN

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-34C		Primary	08/17/98	Lead-212	21.8 U	---	21.8	Filtered		TN
RD-34C		Primary	08/17/98	Lead-214	26.2 U	---	26.2	Filtered		TN
RD-34C		Primary	08/17/98	Potassium-40	165 U	---	165	Filtered		TN
RD-34C		Primary	08/17/98	Thallium-208	13.6 U	---	13.6	Filtered		TN
RD-34C		Primary	08/17/98	Thorium-234	345 U	---	345	Filtered		TN
RD-34C		Primary	02/04/99	Actinium-228	43.3 U	---	43.3	Filtered		TN
RD-34C		Primary	02/04/99	Bismuth-212	81.1 U	---	81.1	Filtered		TN
RD-34C		Primary	02/04/99	Bismuth-214	20.5 U	---	20.5	Filtered		TN
RD-34C		Primary	02/04/99	Lead-210	94.2	62	87.9	Filtered		TN
RD-34C		Primary	02/04/99	Lead-212	13 U	---	13	Filtered		TN
RD-34C		Primary	02/04/99	Lead-214	18.7 U	---	18.7	Filtered		TN
RD-34C		Primary	02/04/99	Potassium-40	140 U	---	140	Filtered		TN
RD-34C		Primary	02/04/99	Radium-226	120 U	---	120	Filtered		TN
RD-34C		Primary	02/04/99	Thallium-208	9.64 U	---	9.64	Filtered		TN
RD-34C		Primary	02/04/99	Thorium-234	147 U	---	147	Filtered		TN
RD-34C		Primary	02/04/99	Uranium-235	36.9 U	---	36.9	Filtered		TN
RD-34C		Primary	02/05/00	Actinium-228	43.5 U	---	43.5	Filtered		TR
RD-34C		Primary	02/05/00	Bismuth-212	81.8 U	---	81.8	Filtered		TR
RD-34C		Primary	02/05/00	Bismuth-214	20 U	---	20	Filtered		TR
RD-34C		Primary	02/05/00	Lead-210	2660 U	---	2660	Filtered		TR
RD-34C		Primary	02/05/00	Lead-212	20.9 U	---	20.9	Filtered		TR
RD-34C		Primary	02/05/00	Lead-214	19.5 U	---	19.5	Filtered		TR
RD-34C		Primary	02/05/00	Potassium-40	190 U	---	190	Filtered		TR
RD-34C		Primary	02/05/00	Radium-226	174 U	---	174	Filtered		TR
RD-34C		Primary	02/05/00	Thallium-208	11.6 U	---	11.6	Filtered		TR
RD-34C		Primary	02/05/00	Thorium-234	334 U	---	334	Filtered		TR
RD-34C		Primary	02/05/00	Uranium-235	60.9 U	---	60.9	Filtered		TR
RD-34C		Primary	02/16/01	Actinium-228	50.5 U	---	50.5	Filtered		ES
RD-34C		Primary	02/16/01	Bismuth-212	99.4 U	---	99.4	Filtered		ES
RD-34C		Primary	02/16/01	Bismuth-214	30.6 U	---	30.6	Filtered		ES
RD-34C		Primary	02/16/01	Lead-210	117 U	---	117	Filtered		ES
RD-34C		Primary	02/16/01	Lead-212	13.4 U	---	13.4	Filtered		ES
RD-34C		Primary	02/16/01	Lead-214	31	18	19.4	Filtered		ES
RD-34C		Primary	02/16/01	Potassium-40	150 U	---	150	Filtered		ES
RD-34C		Primary	02/16/01	Radium-226	135 U	---	135	Filtered		ES
RD-34C		Primary	02/16/01	Thallium-208	11.3 U	---	11.3	Filtered		ES
RD-34C		Primary	02/16/01	Thorium-234	167 U	---	167	Filtered		ES
RD-34C		Primary	02/16/01	Uranium-235	38.2 U	---	38.2	Filtered		ES
RD-34C		Primary	02/14/02	Actinium-228	3 U	2.25	3	Filtered		DL
RD-34C		Primary	02/14/02	Bismuth-212	3 U	3	3	Filtered		DL
RD-34C		Primary	02/14/02	Bismuth-214	3 U	3	3	Filtered		DL
RD-34C		Primary	02/14/02	Lead-210	3 U	5	3	Filtered		DL
RD-34C		Primary	02/14/02	Lead-212	3 U	3	3	Filtered		DL
RD-34C		Primary	02/14/02	Lead-214	5 U	3.13	5	Filtered		DL
RD-34C		Primary	02/14/02	Potassium-40	32.2	11.03	5	Filtered		DL

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-34C		Primary	02/14/02	Radium-226	3 U	1.2	3	Filtered		DL
RD-34C		Primary	02/14/02	Thorium-234	5 U	5	5	Filtered		DL
RD-34C		Primary	02/14/02	Uranium-235	5 U	3	5	Filtered		DL
RD-34C		Primary	02/06/03	Actinium-228	9.17 U	---	9.17	Filtered		ES
RD-34C		Primary	02/06/03	Bismuth-212	13.5 U	---	13.5	Filtered		ES
RD-34C		Primary	02/06/03	Bismuth-214	3.93 U	---	3.93	Filtered		ES
RD-34C		Primary	02/06/03	Lead-210	145 U	---	145	Filtered		ES
RD-34C		Primary	02/06/03	Lead-212	2.5 U	---	2.5	Filtered		ES
RD-34C		Primary	02/06/03	Lead-214	3.71 U	---	3.71	Filtered		ES
RD-34C		Primary	02/06/03	Potassium-40	51.2 U	---	51.2	Filtered		ES
RD-34C		Primary	02/06/03	Radium-226	27.2 U	---	27.2	Filtered		ES
RD-34C		Primary	02/06/03	Thorium-234	30.4 U	---	30.4	Filtered		ES
RD-34C		Primary	02/06/03	Uranium-235	8.9 U	---	8.9	Filtered		ES
RD-34C		Primary	02/24/04	Actinium-228	20.7 U	---	20.7	Filtered		ES
RD-34C		Primary	02/24/04	Bismuth-212	35.4 U	---	35.4	Filtered		ES
RD-34C		Primary	02/24/04	Bismuth-214	19.8 U	---	19.8	Filtered		ES
RD-34C		Primary	02/24/04	Lead-210	499 U	---	499	Filtered		ES
RD-34C		Primary	02/24/04	Lead-212	6.64 U	---	6.64	Filtered		ES
RD-34C		Primary	02/24/04	Lead-214	8.41 U	---	8.41	Filtered		ES
RD-34C		Primary	02/24/04	Potassium-40	53.9 U	---	53.9	Filtered		ES
RD-34C		Primary	02/24/04	Radium-226	70.8 U	---	70.8	Filtered		ES
RD-34C		Primary	02/24/04	Thallium-208	4.88 U	---	4.88	Filtered		ES
RD-34C		Primary	02/24/04	Thorium-234	127 U	---	127	Filtered		ES
RD-34C		Primary	02/24/04	Uranium-235	20.6 U	---	20.6	Filtered		ES
RD-34C		Split	08/09/04	Actinium-228	6.15	3.11	5.59	Filtered		STL
RD-34C		Split	08/09/04	Bismuth-212	5.81 U	11.3	19.7	Filtered		STL
RD-34C		Split	08/09/04	Bismuth-214	1.7 U	1.74	3.02	Filtered		STL
RD-34C		Split	08/09/04	Lead-212	0.912 U	1.46	1.84	Filtered		STL
RD-34C		Split	08/09/04	Lead-214	1.68 U	1.49	2.56	Filtered		STL
RD-34C		Split	08/09/04	Potassium-40	-24.1 U	22	29.7	Filtered		STL
RD-34C		Split	08/09/04	Thallium-208	1.18 U	0.805	1.42	Filtered		STL
RD-34C		Primary	02/15/05	Potassium-40	37.5 U	---	37.5	Filtered		ES
RD-34C		Primary	02/21/06	Potassium-40	49.3 U	---	49.3	Filtered		ES
RD-34C		Split	02/21/06	Potassium-40	-4.81 U	20	39.5	Filtered		STL
RD-34C		Primary	02/07/07	Potassium-40	20.5 U	---	20.5	Filtered		ES
RD-34C		Primary	02/12/08	Potassium-40	5.58 U	---	5.58	Filtered		ES
RD-35B		Primary	05/07/99	Actinium-228	71.3 U	---	71.3	Filtered		TN
RD-35B		Primary	05/07/99	Bismuth-212	113 U	---	113	Filtered		TN
RD-35B		Primary	05/07/99	Bismuth-214	27.2 U	---	27.2	Filtered		TN
RD-35B		Primary	05/07/99	Lead-210	117 U	---	117	Filtered		TN
RD-35B		Primary	05/07/99	Lead-212	18.4 U	---	18.4	Filtered		TN
RD-35B		Primary	05/07/99	Lead-214	26.3 U	---	26.3	Filtered		TN
RD-35B		Primary	05/07/99	Potassium-40	181 U	---	181	Filtered		TN
RD-35B		Primary	05/07/99	Radium-226	176 U	---	176	Filtered		TN
RD-35B		Primary	05/07/99	Thallium-208	14.3 U	---	14.3	Filtered		TN

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-35B		Primary	05/07/99	Thorium-234	222 U	---	222	Filtered		TN
RD-35B		Primary	05/07/99	Uranium-235	54.2 U	---	54.2	Filtered		TN
RD-36D		Primary	11/13/97	Actinium-228	-15.7 U	9.4	38	Filtered		LAS
RD-36D		Primary	11/13/97	Bismuth-212	-24 U	27	79	Filtered		LAS
RD-36D		Primary	11/13/97	Bismuth-214	32	15	17	Filtered		LAS
RD-36D		Primary	11/13/97	Lead-210	70 U	110	180	Filtered		LAS
RD-36D		Primary	11/13/97	Lead-212	3 U	10	15	Filtered		LAS
RD-36D		Primary	11/13/97	Lead-214	30	14	19	Filtered		LAS
RD-36D		Primary	11/13/97	Potassium-40	30 U	73	110	Filtered		LAS
RD-36D		Primary	11/13/97	Radium-226	-40 U	120	190	Filtered		LAS
RD-36D		Primary	11/13/97	Thallium-208	-2 U	6.4	9.8	Filtered		LAS
RD-36D		Primary	11/13/97	Thorium-234	-40 U	71	140	Filtered		LAS
RD-36D		Primary	11/13/97	Uranium-235	37 U	30	41	Filtered		LAS
RD-38B		Primary	02/17/99	Actinium-228	63.2 U	---	63.2	Filtered		TN
RD-38B		Primary	02/17/99	Bismuth-212	127 U	---	127	Filtered		TN
RD-38B		Primary	02/17/99	Bismuth-214	27.3 U	---	27.3	Filtered		TN
RD-38B		Primary	02/17/99	Lead-210	193 U	---	193	Filtered		TN
RD-38B		Primary	02/17/99	Lead-212	18.6 U	---	18.6	Filtered		TN
RD-38B		Primary	02/17/99	Lead-214	24.1 U	---	24.1	Filtered		TN
RD-38B		Primary	02/17/99	Potassium-40	171 U	---	171	Filtered		TN
RD-38B		Primary	02/17/99	Radium-226	184 U	---	184	Filtered		TN
RD-38B		Primary	02/17/99	Thallium-208	13.6 U	---	13.6	Filtered		TN
RD-38B		Primary	02/17/99	Thorium-234	231 U	---	231	Filtered		TN
RD-38B		Primary	02/17/99	Uranium-235	51.1 U	---	51.1	Filtered		TN
RD-44		Primary	08/24/97	Actinium-228	-6 U	21	39	Filtered		LAS
RD-44		Primary	08/24/97	Bismuth-212	35 U	48	58	Filtered		LAS
RD-44		Primary	08/24/97	Bismuth-214	33	16	20	Filtered		LAS
RD-44		Primary	08/24/97	Lead-210	-20 U	110	170	Filtered		LAS
RD-44		Primary	08/24/97	Lead-212	7.2 U	9.5	13	Filtered		LAS
RD-44		Primary	08/24/97	Lead-214	14 U	12	19	Filtered		LAS
RD-44		Primary	08/24/97	Potassium-40	-5 U	76	130	Filtered		LAS
RD-44		Primary	08/24/97	Thallium-208	2.5 U	6.5	9.3	Filtered		LAS
RD-44		Primary	08/24/97	Thorium-234	-18 U	69	140	Filtered		LAS
RD-46B		Primary	02/15/99	Actinium-228	62.6 U	---	62.6	Filtered		TN
RD-46B		Primary	02/15/99	Bismuth-212	127 U	---	127	Filtered		TN
RD-46B		Primary	02/15/99	Bismuth-214	29.5 U	---	29.5	Filtered		TN
RD-46B		Primary	02/15/99	Lead-210	238 U	---	238	Filtered		TN
RD-46B		Primary	02/15/99	Lead-212	18.5 U	---	18.5	Filtered		TN
RD-46B		Primary	02/15/99	Lead-214	27.1 U	---	27.1	Filtered		TN
RD-46B		Primary	02/15/99	Potassium-40	168 U	---	168	Filtered		TN
RD-46B		Primary	02/15/99	Radium-226	177 U	---	177	Filtered		TN
RD-46B		Primary	02/15/99	Thallium-208	13.8 U	---	13.8	Filtered		TN
RD-46B		Primary	02/15/99	Thorium-234	216 U	---	216	Filtered		TN
RD-46B		Primary	02/15/99	Uranium-235	44.8 U	---	44.8	Filtered		TN

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-47		Primary	08/24/97	Actinium-228	-5 U	19	38	Filtered		LAS
RD-47		Primary	08/24/97	Bismuth-212	-7 U	30	78	Filtered		LAS
RD-47		Primary	08/24/97	Bismuth-214	56	18	18	Filtered		LAS
RD-47		Primary	08/24/97	Lead-210	-20 U	110	170	Filtered		LAS
RD-47		Primary	08/24/97	Lead-212	2.1 U	9.7	14	Filtered		LAS
RD-47		Primary	08/24/97	Lead-214	43	15	20	Filtered		LAS
RD-47		Primary	08/24/97	Potassium-40	30 U	77	120	Filtered		LAS
RD-47		Primary	08/24/97	Thallium-208	0.3 U	7.7	11	Filtered		LAS
RD-47		Primary	08/24/97	Thorium-234	-43 U	74	150	Filtered		LAS
RD-50		Primary	05/05/94	Actinium-228	-1 U	19	34	Filtered		LAS
RD-50		Primary	05/05/94	Bismuth-214	65	17	16	Filtered		LAS
RD-50		Primary	05/05/94	Lead-212	13.9	9.5	12	Filtered		LAS
RD-50		Primary	05/05/94	Lead-214	43	13	16	Filtered		LAS
RD-50		Primary	05/05/94	Potassium-40	-44 U	62	100	Filtered		LAS
RD-50		Primary	05/05/94	Thallium-208	4 U	7.3	9.6	Filtered		LAS
RD-50		Primary	05/05/94	Thorium-234	54 U	59	130	Filtered		LAS
RD-50		Primary	05/19/95	Actinium-228	-4.4 U	4.1	18	Filtered		LAS
RD-50		Primary	05/19/95	Bismuth-214	25.6	8.9	11	Filtered		LAS
RD-50		Primary	05/19/95	Lead-212	8.5 U	7	9.8	Filtered		LAS
RD-50		Primary	05/19/95	Lead-214	27.8	7.8	9.6	Filtered		LAS
RD-50		Primary	05/19/95	Potassium-40	-17 U	36	62	Filtered		LAS
RD-50		Primary	05/19/95	Thallium-208	1.6 U	3.7	5.4	Filtered		LAS
RD-50		Primary	05/19/95	Thorium-234	20 U	60	200	Filtered		LAS
RD-50		Primary	05/14/96	Actinium-228	1 U	28	46	Filtered		LAS
RD-50		Primary	05/14/96	Bismuth-214	44	19	21	Filtered		LAS
RD-50		Primary	05/14/96	Lead-212	-6 U	11	16	Filtered		LAS
RD-50		Primary	05/14/96	Lead-214	47	15	18	Filtered		LAS
RD-50		Primary	05/14/96	Potassium-40	25 U	92	130	Filtered		LAS
RD-50		Primary	05/14/96	Thallium-208	-2.8 U	7.7	11	Filtered		LAS
RD-50		Primary	05/14/96	Thorium-234	54 U	83	210	Filtered		LAS
RD-50		Primary	05/14/96	Uranium-235	3 U	29	41	Filtered		LAS
RD-50		Primary	05/05/97	Actinium-228	-30 U	16	44	Filtered		LAS
RD-50		Primary	05/05/97	Bismuth-214	14 U	16	21	Filtered		LAS
RD-50		Primary	05/05/97	Lead-212	12 U	11	13	Filtered		LAS
RD-50		Primary	05/05/97	Lead-214	13 U	13	20	Filtered		LAS
RD-50		Primary	05/05/97	Potassium-40	33 U	85	120	Filtered		LAS
RD-50		Primary	05/05/97	Thallium-208	-5.7 U	7.6	11	Filtered		LAS
RD-50		Primary	05/05/97	Thorium-234	-20 U	150	220	Filtered		LAS
RD-50		Primary	05/28/98	Actinium-228	71.6 U	---	71.6	Filtered		TN
RD-50		Primary	05/28/98	Bismuth-212	107 U	---	107	Filtered		TN
RD-50		Primary	05/28/98	Bismuth-214	31.8 U	---	31.8	Filtered		TN
RD-50		Primary	05/28/98	Lead-210	745 U	---	745	Filtered		TN
RD-50		Primary	05/28/98	Lead-212	32.2 U	---	32.2	Filtered		TN
RD-50		Primary	05/28/98	Lead-214	28.3 U	---	28.3	Filtered		TN
RD-50		Primary	05/28/98	Potassium-40	240 U	---	240	Filtered		TN

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-50		Primary	05/28/98	Thallium-208	16.7 U	---	16.7	Filtered		TN
RD-50		Primary	05/28/98	Thorium-234	308 U	---	308	Filtered		TN
RD-54A		Primary	05/08/94	Actinium-228	-15.3 U	8.9	33	Filtered		LAS
RD-54A		Primary	05/08/94	Bismuth-214	24	13	15	Filtered		LAS
RD-54A		Primary	05/08/94	Lead-212	-0.8 U	8.8	12	Filtered		LAS
RD-54A		Primary	05/08/94	Lead-214	19	11	15	Filtered		LAS
RD-54A		Primary	05/08/94	Potassium-40	-14 U	61	97	Filtered		LAS
RD-54A		Primary	05/08/94	Thallium-208	-1.1 U	6.6	9.2	Filtered		LAS
RD-54A		Primary	05/08/94	Thorium-234	47 U	56	120	Filtered		LAS
RD-54A		Primary	08/09/94	Actinium-228	6 U	13	26	Filtered		LAS
RD-54A		Primary	08/09/94	Bismuth-214	25	12	17	Filtered		LAS
RD-54A		Primary	08/09/94	Lead-212	8.4 U	8.2	12	Filtered		LAS
RD-54A		Primary	08/09/94	Lead-214	38	10	14	Filtered		LAS
RD-54A		Primary	08/09/94	Potassium-40	17 U	47	77	Filtered		LAS
RD-54A		Primary	08/09/94	Radium-226	-28 U	82	120	Filtered		LAS
RD-54A		Primary	08/09/94	Thallium-208	7 U	5.3	7.2	Filtered		LAS
RD-54A		Primary	08/09/94	Thorium-234	45 U	65	190	Filtered		LAS
RD-54A		Primary	08/09/94	Uranium-235	8 U	23	34	Filtered		LAS
RD-54A		Primary	08/03/95	Actinium-228	32 U	24	50	Filtered		LAS
RD-54A		Primary	08/03/95	Bismuth-214	13 U	19	26	Filtered		LAS
RD-54A		Primary	08/03/95	Lead-212	11 U	14	19	Filtered		LAS
RD-54A		Primary	08/03/95	Lead-214	15 U	16	25	Filtered		LAS
RD-54A		Primary	08/03/95	Potassium-40	1 U	97	150	Filtered		LAS
RD-54A		Primary	08/03/95	Thallium-208	0 U	10	15	Filtered		LAS
RD-54A		Primary	08/03/95	Thorium-234	-75 U	90	240	Filtered		LAS
RD-54A		Primary	05/16/96	Actinium-228	-1 U	9.3	16	Filtered		LAS
RD-54A		Primary	05/16/96	Bismuth-214	14.6	8	10	Filtered		LAS
RD-54A		Primary	05/16/96	Lead-212	0 U	5.9	9	Filtered		LAS
RD-54A		Primary	05/16/96	Lead-214	13.4	6.7	9.7	Filtered		LAS
RD-54A		Primary	05/16/96	Potassium-40	6 U	36	57	Filtered		LAS
RD-54A		Primary	05/16/96	Thallium-208	-0.1 U	3.3	5	Filtered		LAS
RD-54A		Primary	05/16/96	Thorium-234	11 U	63	230	Filtered		LAS
RD-54A		Primary	05/16/96	Uranium-235	1 U	18	28	Filtered		LAS
RD-54A		Primary	08/23/96	Actinium-228	-2 U	21	41	Filtered		LAS
RD-54A		Primary	08/23/96	Bismuth-214	54	18	21	Filtered		LAS
RD-54A		Primary	08/23/96	Lead-212	6.2 U	9.7	13	Filtered		LAS
RD-54A		Primary	08/23/96	Lead-214	56	15	19	Filtered		LAS
RD-54A		Primary	08/23/96	Potassium-40	-46 U	65	120	Filtered		LAS
RD-54A		Primary	08/23/96	Thallium-208	3.4 U	6.9	9.3	Filtered		LAS
RD-54A		Primary	08/23/96	Thorium-234	3 U	73	190	Filtered		LAS
RD-54A		Primary	05/05/97	Actinium-228	2 U	10	18	Filtered		LAS
RD-54A		Primary	05/05/97	Bismuth-214	12.5	8	11	Filtered		LAS
RD-54A		Primary	05/05/97	Lead-212	-3.9 U	6.2	9.6	Filtered		LAS
RD-54A		Primary	05/05/97	Lead-214	13.7	7.1	9.8	Filtered		LAS
RD-54A		Primary	05/05/97	Potassium-40	28 U	39	58	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-54A		Primary	05/05/97	Thallium-208	0.5 U	3.6	5.3	Filtered		LAS
RD-54A		Primary	05/05/97	Thorium-234	-30 U	170	230	Filtered		LAS
RD-54A		Primary	08/22/97	Actinium-228	-10.9 U	8.8	37	Filtered		LAS
RD-54A		Primary	08/22/97	Bismuth-212	-11 U	25	72	Filtered		LAS
RD-54A		Primary	08/22/97	Bismuth-214	20	15	19	Filtered		LAS
RD-54A		Primary	08/22/97	Lead-210	30 U	110	170	Filtered		LAS
RD-54A		Primary	08/22/97	Lead-212	-0.1 U	9.3	14	Filtered		LAS
RD-54A		Primary	08/22/97	Lead-214	12 U	12	19	Filtered		LAS
RD-54A		Primary	08/22/97	Potassium-40	17 U	80	130	Filtered		LAS
RD-54A		Primary	08/22/97	Thallium-208	-0.8 U	7.4	11	Filtered		LAS
RD-54A		Primary	08/22/97	Thorium-234	20 U	70	140	Filtered		LAS
RD-54A		Primary	02/08/98	Actinium-228	64.6 U	---	64.6	Filtered		TN
RD-54A		Primary	02/08/98	Bismuth-212	123 U	---	123	Filtered		TN
RD-54A		Primary	02/08/98	Bismuth-214	27.6 U	---	27.6	Filtered		TN
RD-54A		Primary	02/08/98	Lead-210	169	97	---	Filtered		TN
RD-54A		Primary	02/08/98	Lead-212	19 U	---	19	Filtered		TN
RD-54A		Primary	02/08/98	Lead-214	29.7 U	---	29.7	Filtered		TN
RD-54A		Primary	02/08/98	Potassium-40	198 U	---	198	Filtered		TN
RD-54A		Primary	02/08/98	Thallium-208	13 U	---	13	Filtered		TN
RD-54A		Primary	02/08/98	Thorium-234	244 U	---	244	Filtered		TN
RD-54A		Primary	08/07/98	Actinium-228	112 U	---	112	Filtered		TN
RD-54A		Primary	08/07/98	Bismuth-212	138 U	---	138	Filtered		TN
RD-54A		Primary	08/07/98	Bismuth-214	47.7 U	---	47.7	Filtered		TN
RD-54A		Primary	08/07/98	Lead-210	1240 U	---	1240	Filtered		TN
RD-54A		Primary	08/07/98	Lead-212	37 U	---	37	Filtered		TN
RD-54A		Primary	08/07/98	Lead-214	42.9 U	---	42.9	Filtered		TN
RD-54A		Primary	08/07/98	Potassium-40	455 U	---	455	Filtered		TN
RD-54A		Primary	08/07/98	Thallium-208	24.5 U	---	24.5	Filtered		TN
RD-54A		Primary	08/07/98	Thorium-234	526 U	---	526	Filtered		TN
RD-54A		Primary	02/08/99	Actinium-228	27.2 U	---	27.2	Filtered		TN
RD-54A		Primary	02/08/99	Bismuth-212	49.7 U	---	49.7	Filtered		TN
RD-54A		Primary	02/08/99	Lead-210	384 U	---	384	Filtered		TN
RD-54A		Primary	02/08/99	Lead-212	11.8 U	---	11.8	Filtered		TN
RD-54A		Primary	02/08/99	Lead-214	11.5 U	---	11.5	Filtered		TN
RD-54A		Primary	02/08/99	Potassium-40	100 U	---	100	Filtered		TN
RD-54A		Primary	02/08/99	Radium-226	107 U	---	107	Filtered		TN
RD-54A		Primary	02/08/99	Thallium-208	6.28 U	---	6.28	Filtered		TN
RD-54A		Primary	02/08/99	Thorium-234	177 U	---	177	Filtered		TN
RD-54A		Primary	02/08/99	Uranium-235	34.5 U	---	34.5	Filtered		TN
RD-54A		Primary	03/15/00	Actinium-228	41.4 U	---	41.4	Filtered		TR
RD-54A		Primary	03/15/00	Bismuth-212	65.1 U	---	65.1	Filtered		TR
RD-54A		Primary	03/15/00	Bismuth-214	19.2 U	---	19.2	Filtered		TR
RD-54A		Primary	03/15/00	Lead-210	439 U	---	439	Filtered		TR
RD-54A		Primary	03/15/00	Lead-212	13.3 U	---	13.3	Filtered		TR
RD-54A		Primary	03/15/00	Lead-214	17.3 U	---	17.3	Filtered		TR

See last page of table for notes and abbreviations.

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RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-54A		Primary	03/15/00	Potassium-40	268 U	---	268	Filtered		TR
RD-54A		Primary	03/15/00	Radium-226	116 U	---	116	Filtered		TR
RD-54A		Primary	03/15/00	Thallium-208	9.39 U	---	9.39	Filtered		TR
RD-54A		Primary	03/15/00	Thorium-234	154 U	---	154	Filtered		TR
RD-54A		Primary	03/15/00	Uranium-235	45.3 U	---	45.3	Filtered		TR
RD-54A		Primary	10/26/01	Actinium-228	5.6 U	---	5.6	Filtered		DL
RD-54A		Primary	10/26/01	Bismuth-212	0.4 U	1	5	Filtered		DL
RD-54A		Primary	10/26/01	Bismuth-214	5 U	---	5	Filtered		DL
RD-54A		Primary	10/26/01	Lead-210	8 U	---	8	Filtered		DL
RD-54A		Primary	10/26/01	Lead-212	0.4 U	1	5	Filtered		DL
RD-54A		Primary	10/26/01	Lead-214	5 U	---	5	Filtered		DL
RD-54A		Primary	10/26/01	Potassium-40	13 U	---	13	Filtered		DL
RD-54A		Primary	10/26/01	Radium-226	1.1 U	0.2	3	Filtered		DL
RD-54A		Primary	10/26/01	Thallium-208	5 U	---	5	Filtered		DL
RD-54A		Primary	10/26/01	Thorium-234	5 U	---	5	Filtered		DL
RD-54A		Primary	10/26/01	Uranium-235	1.3 U	0.7	5	Filtered		DL
RD-54A		Primary	02/27/02	Actinium-228	3 U	1	3	Filtered		DL
RD-54A		Primary	02/27/02	Bismuth-212	3 U	1.82	3	Filtered		DL
RD-54A		Primary	02/27/02	Bismuth-214	3 U	1.85	3	Filtered		DL
RD-54A		Primary	02/27/02	Lead-210	3 U	1.1	3	Filtered		DL
RD-54A		Primary	02/27/02	Lead-212	3 U	1.1	3	Filtered		DL
RD-54A		Primary	02/27/02	Lead-214	5 U	5	5	Filtered		DL
RD-54A		Primary	02/27/02	Potassium-40	5 U	3	5	Filtered		DL
RD-54A		Primary	02/27/02	Radium-226	3 U	2	3	Filtered		DL
RD-54A		Primary	02/27/02	Thorium-234	5 U	5	5	Filtered		DL
RD-54A		Primary	02/27/02	Uranium-235	5 U	3	5	Filtered		DL
RD-54A	Z2	Primary	02/18/03	Actinium-228	9.26 U	---	9.26	Filtered		ES
RD-54A	Z2	Primary	02/18/03	Bismuth-212	15.8 U	---	15.8	Filtered		ES
RD-54A	Z2	Primary	02/18/03	Bismuth-214	4.41 U	---	4.41	Filtered		ES
RD-54A	Z2	Primary	02/18/03	Lead-210	436 U	---	436	Filtered		ES
RD-54A	Z2	Primary	02/18/03	Lead-212	3.07 U	---	3.07	Filtered		ES
RD-54A	Z2	Primary	02/18/03	Lead-214	4.11 U	---	4.11	Filtered		ES
RD-54A	Z2	Primary	02/18/03	Potassium-40	49.7 U	---	49.7	Filtered		ES
RD-54A	Z2	Primary	02/18/03	Radium-226	30.7 U	---	30.7	Filtered		ES
RD-54A	Z2	Primary	02/18/03	Thorium-234	60.6 U	---	60.6	Filtered		ES
RD-54A	Z2	Primary	02/18/03	Uranium-235	12 U	---	12	Filtered		ES
RD-54A	Z2	Primary	11/03/04	Potassium-40	48.2 U	---	48.2	Filtered		ES
RD-54A	Z2	Primary	02/16/05	Potassium-40	27.4 U	---	27.4	Filtered		ES
RD-54A	Z2	Primary	02/16/06	Potassium-40	28.9 U	---	28.9	Filtered		ES
RD-54A	Z2	Primary	02/07/07	Potassium-40	28.3 U	---	28.3	Filtered		ES
RD-54A	Z2	Primary	02/06/08	Potassium-40	41.7 U	---	41.7	Filtered		ES
RD-54B		Primary	05/08/94	Actinium-228	0 U	20	32	Filtered		LAS
RD-54B		Primary	05/08/94	Bismuth-214	70	18	16	Filtered		LAS
RD-54B		Primary	05/08/94	Lead-212	-3 U	9.1	13	Filtered		LAS
RD-54B		Primary	05/08/94	Lead-214	64	14	16	Filtered		LAS

See last page of table for notes and abbreviations.

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RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-54B		Primary	05/08/94	Potassium-40	12 U	61	92	Filtered		LAS
RD-54B		Primary	05/08/94	Thallium-208	-0.9 U	7.2	10	Filtered		LAS
RD-54B		Primary	05/08/94	Thorium-234	-6 U	56	130	Filtered		LAS
RD-54B		Primary	08/08/94	Actinium-228	-26.7 U	4	22	Filtered		LAS
RD-54B		Primary	08/08/94	Bismuth-214	-19.6 U	3	12	Filtered		LAS
RD-54B		Primary	08/08/94	Lead-212	4.1 U	7.8	11	Filtered		LAS
RD-54B		Primary	08/08/94	Lead-214	48	11	14	Filtered		LAS
RD-54B		Primary	08/08/94	Potassium-40	-93 U	15	72	Filtered		LAS
RD-54B		Primary	08/08/94	Radium-226	39 U	80	110	Filtered		LAS
RD-54B		Primary	08/08/94	Thallium-208	-8.4 U	1.5	5.5	Filtered		LAS
RD-54B		Primary	08/08/94	Thorium-234	19 U	61	210	Filtered		LAS
RD-54B		Primary	08/08/94	Uranium-235	-20 U	12	35	Filtered		LAS
RD-54B		Primary	08/30/95	Actinium-228	17 U	21	36	Filtered		LAS
RD-54B		Primary	08/30/95	Bismuth-214	50	18	21	Filtered		LAS
RD-54B		Primary	08/30/95	Lead-212	-2 U	11	17	Filtered		LAS
RD-54B		Primary	08/30/95	Lead-214	59	16	19	Filtered		LAS
RD-54B		Primary	08/30/95	Potassium-40	11 U	65	100	Filtered		LAS
RD-54B		Primary	08/30/95	Thallium-208	2.1 U	7.6	11	Filtered		LAS
RD-54B		Primary	08/30/95	Thorium-234	-15 U	70	160	Filtered		LAS
RD-54B		Primary	05/14/96	Actinium-228	6 U	20	35	Filtered		LAS
RD-54B		Primary	05/14/96	Bismuth-214	13 U	15	21	Filtered		LAS
RD-54B		Primary	05/14/96	Lead-212	5.4 U	9.6	13	Filtered		LAS
RD-54B		Primary	05/14/96	Lead-214	22	12	18	Filtered		LAS
RD-54B		Primary	05/14/96	Potassium-40	4 U	66	100	Filtered		LAS
RD-54B		Primary	05/14/96	Thallium-208	1.1 U	7	10	Filtered		LAS
RD-54B		Primary	05/14/96	Thorium-234	65 U	72	180	Filtered		LAS
RD-54B		Primary	05/14/96	Uranium-235	14 U	28	40	Filtered		LAS
RD-54B		Primary	08/23/96	Actinium-228	11 U	22	43	Filtered		LAS
RD-54B		Primary	08/23/96	Bismuth-214	155	28	19	Filtered		LAS
RD-54B		Primary	08/23/96	Lead-212	-11.2 U	2.6	17	Filtered		LAS
RD-54B		Primary	08/23/96	Lead-214	167	23	19	Filtered		LAS
RD-54B		Primary	08/23/96	Potassium-40	54 U	79	110	Filtered		LAS
RD-54B		Primary	08/23/96	Thallium-208	7 U	9	10	Filtered		LAS
RD-54B		Primary	08/23/96	Thorium-234	-40 U	120	190	Filtered		LAS
RD-54B		Primary	08/22/97	Actinium-228	0.6 U	9.5	17	Filtered		LAS
RD-54B		Primary	08/22/97	Bismuth-212	-1 U	22	32	Filtered		LAS
RD-54B		Primary	08/22/97	Bismuth-214	7.7 U	7.1	10	Filtered		LAS
RD-54B		Primary	08/22/97	Lead-210	-40 U	370	540	Filtered		LAS
RD-54B		Primary	08/22/97	Lead-212	2.4 U	5.6	8.1	Filtered		LAS
RD-54B		Primary	08/22/97	Lead-214	7.7 U	6.4	9.7	Filtered		LAS
RD-54B		Primary	08/22/97	Potassium-40	29 U	39	58	Filtered		LAS
RD-54B		Primary	08/22/97	Thallium-208	3.2 U	3.5	4.6	Filtered		LAS
RD-54B		Primary	08/22/97	Thorium-234	-7 U	59	96	Filtered		LAS
RD-54B		Primary	02/08/98	Actinium-228	23.6 U	---	23.6	Filtered		TN
RD-54B		Primary	02/08/98	Bismuth-212	41.5 U	---	41.5	Filtered		TN

See last page of table for notes and abbreviations.

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RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-54B		Primary	02/08/98	Bismuth-214	10 U	---	10	Filtered		TN
RD-54B		Primary	02/08/98	Lead-210	197	150	---	Filtered		TN
RD-54B		Primary	02/08/98	Lead-212	8.84 U	---	8.84	Filtered		TN
RD-54B		Primary	02/08/98	Lead-214	10.1 U	---	10.1	Filtered		TN
RD-54B		Primary	02/08/98	Potassium-40	68.7 U	---	68.7	Filtered		TN
RD-54B		Primary	02/08/98	Thallium-208	5.12 U	---	5.12	Filtered		TN
RD-54B		Primary	02/08/98	Thorium-234	144 U	---	144	Filtered		TN
RD-54B		Primary	08/07/98	Actinium-228	50.6 U	---	50.6	Filtered		TN
RD-54B		Primary	08/07/98	Bismuth-212	72.1 U	---	72.1	Filtered		TN
RD-54B		Primary	08/07/98	Bismuth-214	20.4 U	---	20.4	Filtered		TN
RD-54B		Primary	08/07/98	Lead-210	479 U	---	479	Filtered		TN
RD-54B		Primary	08/07/98	Lead-212	16.6 U	---	16.6	Filtered		TN
RD-54B		Primary	08/07/98	Lead-214	19 U	---	19	Filtered		TN
RD-54B		Primary	08/07/98	Potassium-40	147 U	---	147	Filtered		TN
RD-54B		Primary	08/07/98	Thallium-208	10.9 U	---	10.9	Filtered		TN
RD-54B		Primary	08/07/98	Thorium-234	292 U	---	292	Filtered		TN
RD-54B		Primary	02/08/99	Actinium-228	65.3 U	---	65.3	Filtered		TN
RD-54B		Primary	02/08/99	Bismuth-212	111 U	---	111	Filtered		TN
RD-54B		Primary	02/08/99	Lead-210	771 U	---	771	Filtered		TN
RD-54B		Primary	02/08/99	Lead-212	22.4 U	---	22.4	Filtered		TN
RD-54B		Primary	02/08/99	Lead-214	24.9 U	---	24.9	Filtered		TN
RD-54B		Primary	02/08/99	Potassium-40	240 U	---	240	Filtered		TN
RD-54B		Primary	02/08/99	Radium-226	214 U	---	214	Filtered		TN
RD-54B		Primary	02/08/99	Thallium-208	15.8 U	---	15.8	Filtered		TN
RD-54B		Primary	02/08/99	Thorium-234	322 U	---	322	Filtered		TN
RD-54B		Primary	02/08/99	Uranium-235	82.6 U	---	82.6	Filtered		TN
RD-54B		Primary	03/15/00	Actinium-228	30.8 U	---	30.8	Filtered		TR
RD-54B		Primary	03/15/00	Bismuth-212	54.6 U	---	54.6	Filtered		TR
RD-54B		Primary	03/15/00	Bismuth-214	13.8 U	---	13.8	Filtered		TR
RD-54B		Primary	03/15/00	Lead-210	1740 U	---	1740	Filtered		TR
RD-54B		Primary	03/15/00	Lead-212	11.3 U	---	11.3	Filtered		TR
RD-54B		Primary	03/15/00	Lead-214	13.6 U	---	13.6	Filtered		TR
RD-54B		Primary	03/15/00	Potassium-40	130 U	---	130	Filtered		TR
RD-54B		Primary	03/15/00	Radium-226	110 U	---	110	Filtered		TR
RD-54B		Primary	03/15/00	Thallium-208	7.5 U	---	7.5	Filtered		TR
RD-54B		Primary	03/15/00	Thorium-234	242 U	---	242	Filtered		TR
RD-54B		Primary	03/15/00	Uranium-235	42.7 U	---	42.7	Filtered		TR
RD-54B		Primary	10/25/01	Actinium-228	5.6 U	---	5.6	Filtered		DL
RD-54B		Primary	10/25/01	Bismuth-212	2.3 U	3	3.3	Filtered		DL
RD-54B		Primary	10/25/01	Bismuth-214	2.4 U	---	2.4	Filtered		DL
RD-54B		Primary	10/25/01	Lead-210	8 U	---	8	Filtered		DL
RD-54B		Primary	10/25/01	Lead-212	1 U	3	3.3	Filtered		DL
RD-54B		Primary	10/25/01	Lead-214	2.4 U	---	2.4	Filtered		DL
RD-54B		Primary	10/25/01	Potassium-40	13 U	---	13	Filtered		DL
RD-54B		Primary	10/25/01	Radium-226	3.5 U	5	6	Filtered		DL

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-54B		Primary	10/25/01	Thallium-208	7 U	7.5	9.7	Filtered		DL
RD-54B		Primary	10/25/01	Thorium-234	5 U	---	5	Filtered		DL
RD-54B		Primary	10/25/01	Uranium-235	1.7 U	2.5	5	Filtered		DL
RD-54B		Primary	02/27/02	Actinium-228	5 U	5	5	Filtered		DL
RD-54B		Primary	02/27/02	Bismuth-212	3 U	3	3	Filtered		DL
RD-54B		Primary	02/27/02	Bismuth-214	5 U	4	5	Filtered		DL
RD-54B		Primary	02/27/02	Lead-210	8 U	3	8	Filtered		DL
RD-54B		Primary	02/27/02	Lead-212	3 U	3	3	Filtered		DL
RD-54B		Primary	02/27/02	Lead-214	5 U	4	5	Filtered		DL
RD-54B		Primary	02/27/02	Potassium-40	8 U	5	8	Filtered		DL
RD-54B		Primary	02/27/02	Radium-226	5 U	3	5	Filtered		DL
RD-54B		Primary	02/27/02	Thorium-234	5 U	5	5	Filtered		DL
RD-54B		Primary	02/27/02	Uranium-235	5 U	3	5	Filtered		DL
RD-54B		Primary	02/26/03	Actinium-228	7.99 U	---	7.99	Filtered		ES
RD-54B		Primary	02/26/03	Bismuth-212	12.6 U	---	12.6	Filtered		ES
RD-54B		Primary	02/26/03	Bismuth-214	3.84 U	---	3.84	Filtered		ES
RD-54B		Primary	02/26/03	Lead-210	326 U	---	326	Filtered		ES
RD-54B		Primary	02/26/03	Lead-212	2.8 U	---	2.8	Filtered		ES
RD-54B		Primary	02/26/03	Lead-214	3.71 U	---	3.71	Filtered		ES
RD-54B		Primary	02/26/03	Potassium-40	44.8 U	---	44.8	Filtered		ES
RD-54B		Primary	02/26/03	Radium-226	27.8 U	---	27.8	Filtered		ES
RD-54B		Primary	02/26/03	Thorium-234	55.7 U	---	55.7	Filtered		ES
RD-54B		Primary	02/26/03	Uranium-235	10.8 U	---	10.8	Filtered		ES
RD-54B		Primary	02/16/05	Potassium-40	12.9 U	---	12.9	Filtered		ES
RD-54B		Primary	02/20/06	Potassium-40	24.8 U	---	24.8	Filtered		ES
RD-54B		Primary	02/12/07	Potassium-40	28.2 U	---	28.2	Filtered		ES
RD-54B		Primary	02/14/08	Potassium-40	30.7 U	---	30.7	Filtered		ES
RD-54B		Primary	11/07/08	Actinium-228	3.34 U	---	3.34	Filtered		ES
RD-54B		Primary	11/07/08	Actinium-228	3.17 U	---	3.17	Unfiltered		ES
RD-54B		Primary	11/07/08	Potassium-40	8.97 U	---	8.97	Filtered		ES
RD-54B		Primary	11/07/08	Potassium-40	12.2 U	---	12.2	Unfiltered		ES
RD-54B		Primary	11/07/08	Radium-228	3.34 U	---	3.34	Filtered		ES
RD-54B		Primary	11/07/08	Radium-228	3.17 U	---	3.17	Unfiltered		ES
RD-54C		Primary	05/08/94	Actinium-228	28	21	24	Filtered		LAS
RD-54C		Primary	05/08/94	Bismuth-214	14 U	13	15	Filtered		LAS
RD-54C		Primary	05/08/94	Lead-212	18	10	11	Filtered		LAS
RD-54C		Primary	05/08/94	Lead-214	2 U	10	15	Filtered		LAS
RD-54C		Primary	05/08/94	Potassium-40	26 U	64	81	Filtered		LAS
RD-54C		Primary	05/08/94	Thallium-208	8.4 U	7.7	8.7	Filtered		LAS
RD-54C		Primary	05/08/94	Thorium-234	59 U	62	130	Filtered		LAS
RD-54C		Primary	08/08/94	Actinium-228	-15 U	86	160	Filtered		LAS
RD-54C		Primary	08/08/94	Bismuth-214	-13 U	54	86	Filtered		LAS
RD-54C		Primary	08/08/94	Lead-212	21 U	44	61	Filtered		LAS
RD-54C		Primary	08/08/94	Lead-214	6 U	44	73	Filtered		LAS
RD-54C		Primary	08/08/94	Potassium-40	-30 U	300	480	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-54C		Primary	08/08/94	Radium-226	-80 U	420	570	Filtered		LAS
RD-54C		Primary	08/08/94	Thallium-208	-3 U	31	44	Filtered		LAS
RD-54C		Primary	08/08/94	Thorium-234	90 U	280	700	Filtered		LAS
RD-54C		Primary	08/08/94	Uranium-235	-61 U	50	160	Filtered		LAS
RD-54C		Primary	08/30/95	Actinium-228	13 U	20	33	Filtered		LAS
RD-54C		Primary	08/30/95	Bismuth-214	5 U	13	21	Filtered		LAS
RD-54C		Primary	08/30/95	Lead-212	4 U	10	15	Filtered		LAS
RD-54C		Primary	08/30/95	Lead-214	19	13	19	Filtered		LAS
RD-54C		Primary	08/30/95	Potassium-40	-11 U	73	120	Filtered		LAS
RD-54C		Primary	08/30/95	Thallium-208	2.4 U	7.1	9.7	Filtered		LAS
RD-54C		Primary	08/30/95	Thorium-234	-10 U	100	160	Filtered		LAS
RD-54C		Primary	05/16/96	Actinium-228	-14 U	11	43	Filtered		LAS
RD-54C		Primary	05/16/96	Bismuth-214	24	16	18	Filtered		LAS
RD-54C		Primary	05/16/96	Lead-212	11 U	12	15	Filtered		LAS
RD-54C		Primary	05/16/96	Lead-214	21	14	19	Filtered		LAS
RD-54C		Primary	05/16/96	Potassium-40	11 U	86	130	Filtered		LAS
RD-54C		Primary	05/16/96	Thallium-208	13.3	8.7	9.7	Filtered		LAS
RD-54C		Primary	05/16/96	Thorium-234	30 U	150	220	Filtered		LAS
RD-54C		Primary	05/16/96	Uranium-235	-3 U	29	41	Filtered		LAS
RD-54C		Primary	08/23/96	Actinium-228	12 U	22	36	Filtered		LAS
RD-54C		Primary	08/23/96	Bismuth-214	17 U	13	19	Filtered		LAS
RD-54C		Primary	08/23/96	Lead-212	4.3 U	9.4	13	Filtered		LAS
RD-54C		Primary	08/23/96	Lead-214	5 U	11	18	Filtered		LAS
RD-54C		Primary	08/23/96	Potassium-40	20 U	67	110	Filtered		LAS
RD-54C		Primary	08/23/96	Thallium-208	2.2 U	6.7	9.3	Filtered		LAS
RD-54C		Primary	08/23/96	Thorium-234	-4 U	72	190	Filtered		LAS
RD-54C		Primary	05/05/97	Actinium-228	1.9 U	9.9	17	Filtered		LAS
RD-54C		Primary	05/05/97	Bismuth-214	-3.9 U	5.4	11	Filtered		LAS
RD-54C		Primary	05/05/97	Lead-212	1.5 U	5.9	8.8	Filtered		LAS
RD-54C		Primary	05/05/97	Lead-214	3.1 U	5.7	8.8	Filtered		LAS
RD-54C		Primary	05/05/97	Potassium-40	-2 U	32	55	Filtered		LAS
RD-54C		Primary	05/05/97	Thallium-208	1.2 U	3.8	5.5	Filtered		LAS
RD-54C		Primary	05/05/97	Thorium-234	10 U	64	210	Filtered		LAS
RD-54C		Primary	08/24/97	Actinium-228	-20 U	11	38	Filtered		LAS
RD-54C		Primary	08/24/97	Bismuth-212	19 U	46	60	Filtered		LAS
RD-54C		Primary	08/24/97	Bismuth-214	18	13	17	Filtered		LAS
RD-54C		Primary	08/24/97	Lead-210	0 U	120	190	Filtered		LAS
RD-54C		Primary	08/24/97	Lead-212	5 U	11	5	Filtered		LAS
RD-54C		Primary	08/24/97	Lead-214	21	12	17	Filtered		LAS
RD-54C		Primary	08/24/97	Potassium-40	-9 U	64	100	Filtered		LAS
RD-54C		Primary	08/24/97	Thallium-208	-1.6 U	7	10	Filtered		LAS
RD-54C		Primary	08/24/97	Thorium-234	-12 U	79	160	Filtered		LAS
RD-54C		Primary	02/08/98	Actinium-228	53.1 U	---	53.1	Filtered		TN
RD-54C		Primary	02/08/98	Bismuth-212	92 U	---	92	Filtered		TN
RD-54C		Primary	02/08/98	Bismuth-214	25.6 U	---	25.6	Filtered		TN

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-54C		Primary	02/08/98	Lead-210	667 U	---	667	Filtered		TN
RD-54C		Primary	02/08/98	Lead-212	16.4 U	---	16.4	Filtered		TN
RD-54C		Primary	02/08/98	Lead-214	22.8 U	---	22.8	Filtered		TN
RD-54C		Primary	02/08/98	Potassium-40	227 U	---	227	Filtered		TN
RD-54C		Primary	02/08/98	Thallium-208	13.4 U	---	13.4	Filtered		TN
RD-54C		Primary	02/08/98	Thorium-234	256 U	---	256	Filtered		TN
RD-54C		Primary	08/07/98	Actinium-228	80.1 U	---	80.1	Filtered		TN
RD-54C		Primary	08/07/98	Bismuth-212	180 U	---	180	Filtered		TN
RD-54C		Primary	08/07/98	Bismuth-214	48.8 U	---	48.8	Filtered		TN
RD-54C		Primary	08/07/98	Lead-210	1200 U	---	1200	Filtered		TN
RD-54C		Primary	08/07/98	Lead-212	34.8 U	---	34.8	Filtered		TN
RD-54C		Primary	08/07/98	Lead-214	41.6 U	---	41.6	Filtered		TN
RD-54C		Primary	08/07/98	Potassium-40	423 U	---	423	Filtered		TN
RD-54C		Primary	08/07/98	Thallium-208	22.9 U	---	22.9	Filtered		TN
RD-54C		Primary	08/07/98	Thorium-234	501 U	---	501	Filtered		TN
RD-54C		Primary	02/09/99	Actinium-228	65.3 U	---	65.3	Filtered		TN
RD-54C		Primary	02/09/99	Bismuth-212	126 U	---	126	Filtered		TN
RD-54C		Primary	02/09/99	Lead-210	168 U	---	168	Filtered		TN
RD-54C		Primary	02/09/99	Lead-212	19.2 U	---	19.2	Filtered		TN
RD-54C		Primary	02/09/99	Lead-214	25.4 U	---	25.4	Filtered		TN
RD-54C		Primary	02/09/99	Potassium-40	180 U	---	180	Filtered		TN
RD-54C		Primary	02/09/99	Radium-226	182 U	---	182	Filtered		TN
RD-54C		Primary	02/09/99	Thallium-208	13.9 U	---	13.9	Filtered		TN
RD-54C		Primary	02/09/99	Thorium-234	236 U	---	236	Filtered		TN
RD-54C		Primary	02/09/99	Uranium-235	51.4 U	---	51.4	Filtered		TN
RD-54C		Primary	03/15/00	Actinium-228	16.9 U	---	16.9	Filtered		TR
RD-54C		Primary	03/15/00	Bismuth-212	30.8 U	---	30.8	Filtered		TR
RD-54C		Primary	03/15/00	Bismuth-214	7.16 U	---	7.16	Filtered		TR
RD-54C		Primary	03/15/00	Lead-210	494 U	---	494	Filtered		TR
RD-54C		Primary	03/15/00	Lead-212	5.91 U	---	5.91	Filtered		TR
RD-54C		Primary	03/15/00	Lead-214	7.07 U	---	7.07	Filtered		TR
RD-54C		Primary	03/15/00	Potassium-40	48.2 U	---	48.2	Filtered		TR
RD-54C		Primary	03/15/00	Radium-226	62.9 U	---	62.9	Filtered		TR
RD-54C		Primary	03/15/00	Thallium-208	6.51 U	---	6.51	Filtered		TR
RD-54C		Primary	03/15/00	Thorium-234	116 U	---	116	Filtered		TR
RD-54C		Primary	03/15/00	Uranium-235	18.6 U	---	18.6	Filtered		TR
RD-54C		Primary	11/02/01	Actinium-228	5 U	---	5	Filtered		DL
RD-54C		Primary	11/02/01	Bismuth-212	5 U	---	5	Filtered		DL
RD-54C		Primary	11/02/01	Bismuth-214	10 U	---	10	Filtered		DL
RD-54C		Primary	11/02/01	Lead-210	8 U	---	8	Filtered		DL
RD-54C		Primary	11/02/01	Lead-212	5 U	---	15	Filtered		DL
RD-54C		Primary	11/02/01	Lead-214	5 U	---	5	Filtered		DL
RD-54C		Primary	11/02/01	Potassium-40	13 U	---	13	Filtered		DL
RD-54C		Primary	11/02/01	Radium-226	5 U	---	5	Filtered		DL
RD-54C		Primary	11/02/01	Thallium-208	5 U	---	5	Filtered		DL

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-54C		Primary	11/02/01	Thorium-234	5 U	---	5	Filtered		DL
RD-54C		Primary	11/02/01	Uranium-235	1 U	3	5	Filtered		DL
RD-54C		Primary	02/27/02	Actinium-228	5 U	3	5	Filtered		DL
RD-54C		Primary	02/27/02	Bismuth-212	5 U	5	5	Filtered		DL
RD-54C		Primary	02/27/02	Bismuth-214	5 U	5	5	Filtered		DL
RD-54C		Primary	02/27/02	Lead-210	5 U	3	5	Filtered		DL
RD-54C		Primary	02/27/02	Lead-212	7 U	5	7	Filtered		DL
RD-54C		Primary	02/27/02	Lead-214	5.6	5	5.6	Filtered		DL
RD-54C		Primary	02/27/02	Potassium-40	5 U	5	5	Filtered		DL
RD-54C		Primary	02/27/02	Radium-226	5 U	3.3	5	Filtered		DL
RD-54C		Primary	02/27/02	Thorium-234	5 U	5	5	Filtered		DL
RD-54C		Primary	02/27/02	Uranium-235	5 U	3	5	Filtered		DL
RD-54C		Primary	02/26/03	Actinium-228	6.76 U	---	6.76	Filtered		ES
RD-54C		Primary	02/26/03	Bismuth-212	12 U	---	12	Filtered		ES
RD-54C		Primary	02/26/03	Bismuth-214	3.02 U	---	3.02	Filtered		ES
RD-54C		Primary	02/26/03	Lead-210	234 U	---	234	Filtered		ES
RD-54C		Primary	02/26/03	Lead-212	2.24 U	---	2.24	Filtered		ES
RD-54C		Primary	02/26/03	Lead-214	2.83 U	---	2.83	Filtered		ES
RD-54C		Primary	02/26/03	Potassium-40	20 U	---	20	Filtered		ES
RD-54C		Primary	02/26/03	Radium-226	22.9 U	---	22.9	Filtered		ES
RD-54C		Primary	02/26/03	Thorium-234	43.7 U	---	43.7	Filtered		ES
RD-54C		Primary	02/26/03	Uranium-235	6.95 U	---	6.95	Filtered		ES
RD-54C		Primary	11/05/04	Potassium-40	36.4 U	---	36.4	Filtered		ES
RD-54C		Primary	02/17/05	Potassium-40	26.5 U	---	26.5	Filtered		ES
RD-54C		Split	02/17/05	Potassium-40	-48.2 U	28	41.6	Filtered		STL
RD-54C		Primary	02/23/06	Potassium-40	18.5 U	---	18.5	Filtered		ES
RD-54C		Primary	02/12/07	Potassium-40	22.7 U	---	22.7	Filtered		ES
RD-54C		Primary	02/14/08	Potassium-40	33.3 U	---	33.3	Filtered		ES
RD-56A		Primary	05/28/98	Actinium-228	27.5 U	---	27.5	Filtered		TN
RD-56A		Primary	05/28/98	Bismuth-212	44.4 U	---	44.4	Filtered		TN
RD-56A		Primary	05/28/98	Bismuth-214	12 U	---	12	Filtered		TN
RD-56A		Primary	05/28/98	Lead-210	300 U	---	300	Filtered		TN
RD-56A		Primary	05/28/98	Lead-212	10.4 U	---	10.4	Filtered		TN
RD-56A		Primary	05/28/98	Lead-214	12.2 U	---	12.2	Filtered		TN
RD-56A		Primary	05/28/98	Potassium-40	88.3 U	---	88.3	Filtered		TN
RD-56A		Primary	05/28/98	Thallium-208	6.76 U	---	6.76	Filtered		TN
RD-56A		Primary	05/28/98	Thorium-234	179 U	---	179	Filtered		TN
RD-56B		Primary	05/28/98	Actinium-228	68.1 U	---	68.1	Filtered		TN
RD-56B		Primary	05/28/98	Bismuth-212	110 U	---	110	Filtered		TN
RD-56B		Primary	05/28/98	Bismuth-214	28.8 U	---	28.8	Filtered		TN
RD-56B		Primary	05/28/98	Lead-210	761 U	---	761	Filtered		TN
RD-56B		Primary	05/28/98	Lead-212	22.9 U	---	22.9	Filtered		TN
RD-56B		Primary	05/28/98	Lead-214	27.9 U	---	27.9	Filtered		TN
RD-56B		Primary	05/28/98	Potassium-40	290 U	---	290	Filtered		TN
RD-56B		Primary	05/28/98	Thallium-208	16.1 U	---	16.1	Filtered		TN

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-56B		Primary	05/28/98	Thorium-234	314 U	---	314	Filtered		TN
RD-57		Primary	05/10/94	Actinium-228	5 U	10	18	Filtered		LAS
RD-57		Primary	05/10/94	Bismuth-214	47	10	11	Filtered		LAS
RD-57		Primary	05/10/94	Lead-212	12.5	6.5	8.4	Filtered		LAS
RD-57		Primary	05/10/94	Lead-214	34.8	7.8	9.8	Filtered		LAS
RD-57		Primary	05/10/94	Potassium-40	-2 U	37	59	Filtered		LAS
RD-57		Primary	05/10/94	Thallium-208	2 U	4.1	5.7	Filtered		LAS
RD-57		Primary	05/10/94	Thorium-234	43 U	50	140	Filtered		LAS
RD-57		Primary	08/18/94	Actinium-228	9 U	95	190	Filtered		LAS
RD-57		Primary	08/18/94	Bismuth-214	-12 U	58	93	Filtered		LAS
RD-57		Primary	08/18/94	Lead-212	3 U	48	72	Filtered		LAS
RD-57		Primary	08/18/94	Lead-214	-17 U	48	87	Filtered		LAS
RD-57		Primary	08/18/94	Potassium-40	-40 U	340	580	Filtered		LAS
RD-57		Primary	08/18/94	Radium-226	30 U	460	670	Filtered		LAS
RD-57		Primary	08/18/94	Thallium-208	5 U	33	50	Filtered		LAS
RD-57		Primary	08/18/94	Thorium-234	-20 U	300	820	Filtered		LAS
RD-57		Primary	08/18/94	Uranium-235	-90 U	100	190	Filtered		LAS
RD-57		Primary	02/07/95	Actinium-228	-22 U	18	38	Filtered		LAS
RD-57		Primary	02/07/95	Bismuth-214	-4 U	11	20	Filtered		LAS
RD-57		Primary	02/07/95	Lead-212	7.1 U	9.4	13	Filtered		LAS
RD-57		Primary	02/07/95	Lead-214	3 U	12	19	Filtered		LAS
RD-57		Primary	02/07/95	Potassium-40	27 U	82	120	Filtered		LAS
RD-57		Primary	02/07/95	Thallium-208	-3 U	7.1	11	Filtered		LAS
RD-57		Primary	02/07/95	Thorium-234	13 U	72	170	Filtered		LAS
RD-57		Primary	08/09/95	Actinium-228	-28 U	17	40	Filtered		LAS
RD-57		Primary	08/09/95	Bismuth-214	61	20	22	Filtered		LAS
RD-57		Primary	08/09/95	Lead-212	5 U	11	15	Filtered		LAS
RD-57		Primary	08/09/95	Lead-214	58	15	17	Filtered		LAS
RD-57		Primary	08/09/95	Potassium-40	-53 U	42	140	Filtered		LAS
RD-57		Primary	08/09/95	Thallium-208	2.7 U	6.9	9.4	Filtered		LAS
RD-57		Primary	08/09/95	Thorium-234	-8 U	68	160	Filtered		LAS
RD-57		Primary	02/19/96	Actinium-228	12 U	22	34	Filtered		LAS
RD-57		Primary	02/19/96	Bismuth-214	18 U	14	19	Filtered		LAS
RD-57		Primary	02/19/96	Lead-212	6 U	9.7	13	Filtered		LAS
RD-57		Primary	02/19/96	Lead-214	10 U	12	17	Filtered		LAS
RD-57		Primary	02/19/96	Potassium-40	-15 U	77	130	Filtered		LAS
RD-57		Primary	02/19/96	Thallium-208	-2.8 U	6.8	11	Filtered		LAS
RD-57		Primary	02/19/96	Thorium-234	-42 U	71	190	Filtered		LAS
RD-57		Primary	08/22/96	Actinium-228	14 U	19	34	Filtered		LAS
RD-57		Primary	08/22/96	Bismuth-214	35	17	21	Filtered		LAS
RD-57		Primary	08/22/96	Lead-212	-4.9 U	9.4	14	Filtered		LAS
RD-57		Primary	08/22/96	Lead-214	30	13	19	Filtered		LAS
RD-57		Primary	08/22/96	Potassium-40	0 U	71	120	Filtered		LAS
RD-57		Primary	08/22/96	Thallium-208	-2.1 U	6.8	10	Filtered		LAS
RD-57		Primary	08/22/96	Thorium-234	1 U	69	180	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-57		Primary	02/25/97	Actinium-228	7 U	21	38	Filtered		LAS
RD-57		Primary	02/25/97	Bismuth-214	9 U	13	19	Filtered		LAS
RD-57		Primary	02/25/97	Lead-212	8.8 U	9.4	12	Filtered		LAS
RD-57		Primary	02/25/97	Lead-214	21	12	17	Filtered		LAS
RD-57		Primary	02/25/97	Potassium-40	51 U	72	97	Filtered		LAS
RD-57		Primary	02/25/97	Thallium-208	-6.4 U	3.7	11	Filtered		LAS
RD-57		Primary	02/25/97	Thorium-234	18 U	69	180	Filtered		LAS
RD-57		Primary	08/27/97	Actinium-228	6 U	22	40	Filtered		LAS
RD-57		Primary	08/27/97	Actinium-228	-13 U	11	40	Unfiltered		LAS
RD-57		Primary	08/27/97	Bismuth-212	-14 U	37	72	Filtered		LAS
RD-57		Primary	08/27/97	Bismuth-212	24 U	33	55	Unfiltered		LAS
RD-57		Primary	08/27/97	Bismuth-214	13 U	14	18	Filtered		LAS
RD-57		Primary	08/27/97	Bismuth-214	8 U	14	19	Unfiltered		LAS
RD-57		Primary	08/27/97	Lead-210	-30 U	110	180	Filtered		LAS
RD-57		Primary	08/27/97	Lead-210	10 U	120	190	Unfiltered		LAS
RD-57		Primary	08/27/97	Lead-212	-7 U	10	16	Filtered		LAS
RD-57		Primary	08/27/97	Lead-212	7.3 U	9.8	14	Unfiltered		LAS
RD-57		Primary	08/27/97	Lead-214	10 U	11	17	Filtered		LAS
RD-57		Primary	08/27/97	Lead-214	7 U	11	17	Unfiltered		LAS
RD-57		Primary	08/27/97	Potassium-40	2 U	81	130	Filtered		LAS
RD-57		Primary	08/27/97	Potassium-40	13 U	67	100	Unfiltered		LAS
RD-57		Primary	08/27/97	Thallium-208	-3.3 U	3.2	10	Filtered		LAS
RD-57		Primary	08/27/97	Thallium-208	1.7 U	6.7	9.4	Unfiltered		LAS
RD-57		Primary	08/27/97	Thorium-234	-21 U	70	140	Filtered		LAS
RD-57		Primary	08/27/97	Thorium-234	-8 U	73	140	Unfiltered		LAS
RD-57		Primary	05/26/98	Actinium-228	27.6 U	---	27.6	Filtered		TN
RD-57		Primary	05/26/98	Bismuth-212	46 U	---	46	Filtered		TN
RD-57		Primary	05/26/98	Bismuth-214	12.8 U	---	12.8	Filtered		TN
RD-57		Primary	05/26/98	Lead-210	497 U	---	497	Filtered		TN
RD-57		Primary	05/26/98	Lead-212	10.5 U	---	10.5	Filtered		TN
RD-57		Primary	05/26/98	Lead-214	12.9 U	---	12.9	Filtered		TN
RD-57		Primary	05/26/98	Potassium-40	86.7 U	---	86.7	Filtered		TN
RD-57		Primary	05/26/98	Thallium-208	6.27 U	---	6.27	Filtered		TN
RD-57		Primary	05/26/98	Thorium-234	178 U	---	178	Filtered		TN
RD-57		Primary	08/17/98	Actinium-228	47.7 U	---	47.7	Filtered		TN
RD-57		Primary	08/17/98	Bismuth-212	101 U	---	101	Filtered		TN
RD-57		Primary	08/17/98	Bismuth-214	27.7 U	---	27.7	Filtered		TN
RD-57		Primary	08/17/98	Lead-210	611 U	---	611	Filtered		TN
RD-57		Primary	08/17/98	Lead-212	20.4 U	---	20.4	Filtered		TN
RD-57		Primary	08/17/98	Lead-214	28 U	---	28	Filtered		TN
RD-57		Primary	08/17/98	Potassium-40	180 U	---	180	Filtered		TN
RD-57		Primary	08/17/98	Thallium-208	14.2 U	---	14.2	Filtered		TN
RD-57		Primary	08/17/98	Thorium-234	376 U	---	376	Filtered		TN
RD-57		Primary	05/13/99	Actinium-228	27.1 U	---	27.1	Filtered		TN
RD-57		Primary	05/13/99	Bismuth-212	49.1 U	---	49.1	Filtered		TN

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-57		Primary	05/13/99	Bismuth-214	11.4 U	---	11.4	Filtered		TN
RD-57		Primary	05/13/99	Lead-210	468 U	---	468	Filtered		TN
RD-57		Primary	05/13/99	Lead-212	10.7 U	---	10.7	Filtered		TN
RD-57		Primary	05/13/99	Lead-214	11.9 U	---	11.9	Filtered		TN
RD-57		Primary	05/13/99	Potassium-40	91.7 U	---	91.7	Filtered		TN
RD-57		Primary	05/13/99	Radium-226	135 U	---	135	Filtered		TN
RD-57		Primary	05/13/99	Thallium-208	6.22 U	---	6.22	Filtered		TN
RD-57		Primary	05/13/99	Thorium-234	174 U	---	174	Filtered		TN
RD-57		Primary	05/13/99	Uranium-235	32.2 U	---	32.2	Filtered		TN
RD-57		Primary	02/09/00	Actinium-228	61.5 U	---	61.5	Filtered		TR
RD-57		Primary	02/09/00	Bismuth-212	96.9 U	---	96.9	Filtered		TR
RD-57		Primary	02/09/00	Bismuth-214	28.4 U	---	28.4	Filtered		TR
RD-57		Primary	02/09/00	Lead-210	556 U	---	556	Filtered		TR
RD-57		Primary	02/09/00	Lead-212	17.9 U	---	17.9	Filtered		TR
RD-57		Primary	02/09/00	Lead-214	24.6 U	---	24.6	Filtered		TR
RD-57		Primary	02/09/00	Potassium-40	373 U	---	373	Filtered		TR
RD-57		Primary	02/09/00	Radium-226	278 U	---	278	Filtered		TR
RD-57		Primary	02/09/00	Thallium-208	13.5 U	---	13.5	Filtered		TR
RD-57		Primary	02/09/00	Thorium-234	209 U	---	209	Filtered		TR
RD-57		Primary	02/09/00	Uranium-235	59.9 U	---	59.9	Filtered		TR
RD-57		Primary	05/11/01	Actinium-228	26 U	---	26	Filtered		ES
RD-57		Primary	05/11/01	Bismuth-212	45.6 U	---	45.6	Filtered		ES
RD-57		Primary	05/11/01	Bismuth-214	12.6 U	---	12.6	Filtered		ES
RD-57		Primary	05/11/01	Lead-210	545 U	---	545	Filtered		ES
RD-57		Primary	05/11/01	Lead-212	19.4 U	---	19.4	Filtered		ES
RD-57		Primary	05/11/01	Lead-214	14.4 U	---	14.4	Filtered		ES
RD-57		Primary	05/11/01	Potassium-40	74.7 U	---	74.7	Filtered		ES
RD-57		Primary	05/11/01	Radium-226	91.2 U	---	91.2	Filtered		ES
RD-57		Primary	05/11/01	Thallium-208	6.41 U	---	6.41	Filtered		ES
RD-57		Primary	05/11/01	Thorium-234	160 U	---	160	Filtered		ES
RD-57		Primary	05/11/01	Uranium-235	26.1 U	---	26.1	Filtered		ES
RD-57		Primary	02/14/02	Actinium-228	5 U	1	5	Filtered		DL
RD-57		Primary	02/14/02	Bismuth-212	5 U	3	5	Filtered		DL
RD-57		Primary	02/14/02	Bismuth-214	5 U	5	5	Filtered		DL
RD-57		Primary	02/14/02	Lead-210	5 U	3	5	Filtered		DL
RD-57		Primary	02/14/02	Lead-212	7 U	5	7	Filtered		DL
RD-57		Primary	02/14/02	Lead-214	5.6	5	5.6	Filtered		DL
RD-57		Primary	02/14/02	Potassium-40	29.04	10.42	15	Filtered		DL
RD-57		Primary	02/14/02	Radium-226	5 U	3.3	5	Filtered		DL
RD-57		Primary	02/14/02	Thorium-234	5 U	5	5	Filtered		DL
RD-57		Primary	02/14/02	Uranium-235	5 U	3	5	Filtered		DL
RD-57	Z8	Primary	01/29/03	Actinium-228	7.2 U	---	7.2	Filtered		ES
RD-57	Z8	Primary	01/29/03	Bismuth-212	12.2 U	---	12.2	Filtered		ES
RD-57	Z8	Primary	01/29/03	Bismuth-214	3.35 U	---	3.35	Filtered		ES
RD-57	Z8	Primary	01/29/03	Lead-210	317 U	---	317	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-57	Z8	Primary	01/29/03	Lead-212	2.41 U	---	2.41	Filtered		ES
RD-57	Z8	Primary	01/29/03	Lead-214	3.21 U	---	3.21	Filtered		ES
RD-57	Z8	Primary	01/29/03	Potassium-40	40 U	---	40	Filtered		ES
RD-57	Z8	Primary	01/29/03	Radium-226	23.4 U	---	23.4	Filtered		ES
RD-57	Z8	Primary	01/29/03	Thorium-234	43.7 U	---	43.7	Filtered		ES
RD-57	Z8	Primary	01/29/03	Uranium-235	8.96 U	---	8.96	Filtered		ES
RD-57	Z8	Primary	04/30/03	Actinium-228	5.26 U	---	5.26	Filtered		ES
RD-57	Z8	Primary	04/30/03	Bismuth-212	8.85 U	---	8.85	Filtered		ES
RD-57	Z8	Primary	04/30/03	Bismuth-214	2.6 U	---	2.6	Filtered		ES
RD-57	Z8	Primary	04/30/03	Lead-210	301 U	---	301	Filtered		ES
RD-57	Z8	Primary	04/30/03	Lead-212	1.86 U	---	1.86	Filtered		ES
RD-57	Z8	Primary	04/30/03	Lead-214	2.48 U	---	2.48	Filtered		ES
RD-57	Z8	Primary	04/30/03	Potassium-40	30.9 U	---	30.9	Filtered		ES
RD-57	Z8	Primary	04/30/03	Radium-226	18.1 U	---	18.1	Filtered		ES
RD-57	Z8	Primary	04/30/03	Thorium-234	36.4 U	---	36.4	Filtered		ES
RD-57	Z8	Primary	04/30/03	Uranium-235	6.22 U	---	6.22	Filtered		ES
RD-57	Z7	Primary	03/08/05	Potassium-40	25.9 U	---	25.9	Filtered		ES
RD-57	Z7	Primary	02/20/06	Potassium-40	19 U	---	19	Filtered		ES
RD-57	Z7	Primary	02/08/07	Potassium-40	25.2 U	---	25.2	Filtered		ES
RD-57	Z8	Primary	02/07/08	Potassium-40	17.4 U	---	17.4	Filtered		ES
RD-59A		Primary	08/16/94	Actinium-228	30 U	110	220	Filtered		LAS
RD-59A		Primary	08/16/94	Bismuth-214	-3 U	68	110	Filtered		LAS
RD-59A		Primary	08/16/94	Lead-212	-2 U	53	84	Filtered		LAS
RD-59A		Primary	08/16/94	Lead-214	-4 U	55	100	Filtered		LAS
RD-59A		Primary	08/16/94	Potassium-40	40 U	390	690	Filtered		LAS
RD-59A		Primary	08/16/94	Thallium-208	-12 U	39	63	Filtered		LAS
RD-59A		Primary	08/16/94	Thorium-234	-80 U	330	920	Filtered		LAS
RD-59A		Primary	08/16/94	Uranium-235	100 U	140	200	Filtered		LAS
RD-59A		Primary	02/06/95	Actinium-228	1 U	25	46	Filtered		LAS
RD-59A		Duplicate	02/06/95	Actinium-228	13 U	22	33	Filtered		LAS
RD-59A		Primary	02/06/95	Bismuth-214	80	23	22	Filtered		LAS
RD-59A		Duplicate	02/06/95	Bismuth-214	90	23	22	Filtered		LAS
RD-59A		Primary	02/06/95	Lead-212	8 U	12	18	Filtered		LAS
RD-59A		Duplicate	02/06/95	Lead-212	6 U	11	15	Filtered		LAS
RD-59A		Primary	02/06/95	Lead-214	74	18	20	Filtered		LAS
RD-59A		Duplicate	02/06/95	Lead-214	81	18	20	Filtered		LAS
RD-59A		Primary	02/06/95	Potassium-40	17 U	86	130	Filtered		LAS
RD-59A		Duplicate	02/06/95	Potassium-40	-13 U	76	120	Filtered		LAS
RD-59A		Primary	02/06/95	Thallium-208	4.8 U	8.7	12	Filtered		LAS
RD-59A		Duplicate	02/06/95	Thallium-208	2.1 U	7	9.8	Filtered		LAS
RD-59A		Primary	02/06/95	Thorium-234	12 U	77	180	Filtered		LAS
RD-59A		Duplicate	02/06/95	Thorium-234	11 U	70	170	Filtered		LAS
RD-59A		Primary	08/08/95	Actinium-228	-3 U	20	39	Filtered		LAS
RD-59A		Primary	08/08/95	Bismuth-214	54	20	22	Filtered		LAS
RD-59A		Primary	08/08/95	Lead-212	8 U	11	15	Filtered		LAS

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-59A		Primary	08/08/95	Lead-214	55	16	18	Filtered		LAS
RD-59A		Primary	08/08/95	Potassium-40	-29 U	70	120	Filtered		LAS
RD-59A		Primary	08/08/95	Thallium-208	0.3 U	7.2	11	Filtered		LAS
RD-59A		Primary	08/08/95	Thorium-234	20 U	110	170	Filtered		LAS
RD-59A		Primary	03/12/96	Actinium-228	-7 U	24	44	Filtered		LAS
RD-59A		Primary	03/12/96	Bismuth-214	182	31	22	Filtered		LAS
RD-59A		Primary	03/12/96	Lead-212	5 U	12	16	Filtered		LAS
RD-59A		Primary	03/12/96	Lead-214	180	25	20	Filtered		LAS
RD-59A		Primary	03/12/96	Potassium-40	52 U	92	120	Filtered		LAS
RD-59A		Primary	03/12/96	Thallium-208	-1 U	8.2	12	Filtered		LAS
RD-59A		Primary	03/12/96	Thorium-234	-13 U	86	240	Filtered		LAS
RD-59A		Primary	08/21/96	Actinium-228	-17 U	13	45	Filtered		LAS
RD-59A		Primary	08/21/96	Bismuth-214	281	40	23	Filtered		LAS
RD-59A		Primary	08/21/96	Lead-212	4 U	11	16	Filtered		LAS
RD-59A		Primary	08/21/96	Lead-214	302	33	22	Filtered		LAS
RD-59A		Primary	08/21/96	Potassium-40	75 U	80	110	Filtered		LAS
RD-59A		Primary	08/21/96	Thallium-208	-1.5 U	3.5	5.5	Filtered		LAS
RD-59A		Primary	08/21/96	Thorium-234	30 U	140	220	Filtered		LAS
RD-59A		Primary	02/16/97	Actinium-228	-13 U	24	43	Filtered		LAS
RD-59A		Primary	02/16/97	Bismuth-214	163	30	21	Filtered		LAS
RD-59A		Primary	02/16/97	Lead-212	-2 U	11	16	Filtered		LAS
RD-59A		Primary	02/16/97	Lead-214	185	25	19	Filtered		LAS
RD-59A		Primary	02/16/97	Potassium-40	45 U	89	130	Filtered		LAS
RD-59A		Primary	02/16/97	Thallium-208	-0.4 U	8.5	12	Filtered		LAS
RD-59A		Primary	02/16/97	Thorium-234	5 U	85	230	Filtered		LAS
RD-59A		Primary	08/22/97	Actinium-228	1 U	10	19	Filtered		LAS
RD-59A		Primary	08/22/97	Bismuth-212	2 U	22	31	Filtered		LAS
RD-59A		Primary	08/22/97	Bismuth-214	99	15	11	Filtered		LAS
RD-59A		Primary	08/22/97	Lead-210	-110 U	390	580	Filtered		LAS
RD-59A		Primary	08/22/97	Lead-212	5.2 U	6.8	9.6	Filtered		LAS
RD-59A		Primary	08/22/97	Lead-214	129	15	10	Filtered		LAS
RD-59A		Primary	08/22/97	Potassium-40	-7 U	34	58	Filtered		LAS
RD-59A		Primary	08/22/97	Thallium-208	-1.5 U	7.6	11	Filtered		LAS
RD-59A		Primary	08/22/97	Thorium-234	-4 U	61	98	Filtered		LAS
RD-59A		Primary	08/19/98	Actinium-228	153 U	---	153	Filtered		TN
RD-59A		Primary	08/19/98	Bismuth-212	254 U	---	254	Filtered		TN
RD-59A		Primary	08/19/98	Bismuth-214	57.9 U	---	57.9	Filtered		TN
RD-59A		Primary	08/19/98	Lead-210	1540 U	---	1540	Filtered		TN
RD-59A		Primary	08/19/98	Lead-212	40.8 U	---	40.8	Filtered		TN
RD-59A		Primary	08/19/98	Lead-214	53.3 U	---	53.3	Filtered		TN
RD-59A		Primary	08/19/98	Potassium-40	390 U	---	390	Filtered		TN
RD-59A		Primary	08/19/98	Thallium-208	30.7 U	---	30.7	Filtered		TN
RD-59A		Primary	08/19/98	Thorium-234	718 U	---	718	Filtered		TN
RD-59A		Primary	02/16/99	Actinium-228	25.8 U	---	25.8	Filtered		TN
RD-59A		Primary	02/16/99	Bismuth-212	45 U	---	45	Filtered		TN

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-59A		Primary	02/16/99	Bismuth-214	11.8 U	---	11.8	Filtered		TN
RD-59A		Primary	02/16/99	Lead-210	425 U	---	425	Filtered		TN
RD-59A		Primary	02/16/99	Lead-212	10.5 U	---	10.5	Filtered		TN
RD-59A		Primary	02/16/99	Lead-214	11.9 U	---	11.9	Filtered		TN
RD-59A		Primary	02/16/99	Potassium-40	87 U	---	87	Filtered		TN
RD-59A		Primary	02/16/99	Radium-226	102 U	---	102	Filtered		TN
RD-59A		Primary	02/16/99	Thallium-208	6.01 U	---	6.01	Filtered		TN
RD-59A		Primary	02/16/99	Thorium-234	161 U	---	161	Filtered		TN
RD-59A		Primary	02/16/99	Uranium-235	31.3 U	---	31.3	Filtered		TN
RD-59A		Primary	03/14/00	Actinium-228	62.4 U	---	62.4	Filtered		TR
RD-59A		Primary	03/14/00	Bismuth-212	122 U	---	122	Filtered		TR
RD-59A		Primary	03/14/00	Bismuth-214	31.7 U	---	31.7	Filtered		TR
RD-59A		Primary	03/14/00	Lead-210	960 U	---	960	Filtered		TR
RD-59A		Primary	03/14/00	Lead-212	20.9 U	---	20.9	Filtered		TR
RD-59A		Primary	03/14/00	Lead-214	33.1 U	---	33.1	Filtered		TR
RD-59A		Primary	03/14/00	Potassium-40	263 U	---	263	Filtered		TR
RD-59A		Primary	03/14/00	Radium-226	200 U	---	200	Filtered		TR
RD-59A		Primary	03/14/00	Thallium-208	12.7 U	---	12.7	Filtered		TR
RD-59A		Primary	03/14/00	Thorium-234	318 U	---	318	Filtered		TR
RD-59A		Primary	03/14/00	Uranium-235	78.1 U	---	78.1	Filtered		TR
RD-59A		Primary	05/16/01	Actinium-228	57.2 U	---	57.2	Filtered		ES
RD-59A		Primary	05/16/01	Bismuth-212	89.4 U	---	89.4	Filtered		ES
RD-59A		Primary	05/16/01	Bismuth-214	25.1 U	---	25.1	Filtered		ES
RD-59A		Primary	05/16/01	Lead-210	487 U	---	487	Filtered		ES
RD-59A		Primary	05/16/01	Lead-212	44 U	---	44	Filtered		ES
RD-59A		Primary	05/16/01	Lead-214	23.7 U	---	23.7	Filtered		ES
RD-59A		Primary	05/16/01	Potassium-40	359 U	---	359	Filtered		ES
RD-59A		Primary	05/16/01	Radium-226	169 U	---	169	Filtered		ES
RD-59A		Primary	05/16/01	Thallium-208	12.1 U	---	12.1	Filtered		ES
RD-59A		Primary	05/16/01	Thorium-234	179 U	---	179	Filtered		ES
RD-59A		Primary	05/16/01	Uranium-235	54 U	---	54	Filtered		ES
RD-59A		Primary	02/28/02	Actinium-228	5 U	5	5	Filtered		DL
RD-59A		Primary	02/28/02	Bismuth-212	5 U	3	5	Filtered		DL
RD-59A		Primary	02/28/02	Bismuth-214	5 U	3	5	Filtered		DL
RD-59A		Primary	02/28/02	Lead-210	5 U	3	5	Filtered		DL
RD-59A		Primary	02/28/02	Lead-212	5 U	3	5	Filtered		DL
RD-59A		Primary	02/28/02	Lead-214	5 U	3	5	Filtered		DL
RD-59A		Primary	02/28/02	Potassium-40	16.54	6.8	10	Filtered		DL
RD-59A		Primary	02/28/02	Radium-226	5 U	5	5	Filtered		DL
RD-59A		Primary	02/28/02	Thorium-234	5 U	5	5	Filtered		DL
RD-59A		Primary	02/28/02	Uranium-235	5 U	3	5	Filtered		DL
RD-59A		Primary	01/31/03	Actinium-228	5.39 U	---	5.39	Filtered		ES
RD-59A		Primary	01/31/03	Bismuth-212	10.1 U	---	10.1	Filtered		ES
RD-59A		Primary	01/31/03	Bismuth-214	2.6 U	---	2.6	Filtered		ES
RD-59A		Primary	01/31/03	Lead-210	121 U	---	121	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-59A		Primary	01/31/03	Lead-212	2.18 U	---	2.18	Filtered		ES
RD-59A		Primary	01/31/03	Lead-214	2.75 U	---	2.75	Filtered		ES
RD-59A		Primary	01/31/03	Potassium-40	14 U	---	14	Filtered		ES
RD-59A		Primary	01/31/03	Radium-226	22.1 U	---	22.1	Filtered		ES
RD-59A		Primary	01/31/03	Thorium-234	42.4 U	---	42.4	Filtered		ES
RD-59A		Primary	01/31/03	Uranium-235	8.15 U	---	8.15	Filtered		ES
RD-59A		Primary	05/15/03	Actinium-228	6.54 U	---	6.54	Filtered		ES
RD-59A		Primary	05/15/03	Bismuth-212	11.9 U	---	11.9	Filtered		ES
RD-59A		Primary	05/15/03	Bismuth-214	4.7 U	---	4.7	Filtered		ES
RD-59A		Primary	05/15/03	Lead-210	395 U	---	395	Filtered		ES
RD-59A		Primary	05/15/03	Lead-212	2.32 U	---	2.32	Filtered		ES
RD-59A		Primary	05/15/03	Lead-214	2.98 U	---	2.98	Filtered		ES
RD-59A		Primary	05/15/03	Potassium-40	30.6 U	---	30.6	Filtered		ES
RD-59A		Primary	05/15/03	Radium-226	24.2 U	---	24.2	Filtered		ES
RD-59A		Primary	05/15/03	Thorium-234	54.3 U	---	54.3	Filtered		ES
RD-59A		Primary	05/15/03	Uranium-235	9.36 U	---	9.36	Filtered		ES
RD-59A		Primary	11/16/04	Potassium-40	35 U	---	35	Filtered		ES
RD-59A		Primary	09/07/05	Potassium-40	9.84 U	---	9.84	Filtered		ES
RD-59A		Primary	08/23/06	Potassium-40	39.8 U	---	39.8	Filtered		ES
RD-59A		Primary	11/14/06	Potassium-40	54.5 U	---	54.5	Filtered		ES
RD-59A		Primary	02/28/07	Potassium-40	21.6 U	---	21.6	Filtered		ES
RD-59A		Primary	05/20/08	Potassium-40	26.5 U	---	26.5	Filtered		ES
RD-59B		Primary	08/16/94	Actinium-228	50 U	120	190	Filtered		LAS
RD-59B		Primary	08/16/94	Bismuth-214	-35 U	59	110	Filtered		LAS
RD-59B		Primary	08/16/94	Lead-212	-31 U	34	79	Filtered		LAS
RD-59B		Primary	08/16/94	Lead-214	-47 U	62	100	Filtered		LAS
RD-59B		Primary	08/16/94	Potassium-40	-180 U	380	660	Filtered		LAS
RD-59B		Primary	08/16/94	Thallium-208	-3 U	47	65	Filtered		LAS
RD-59B		Primary	08/16/94	Thorium-234	-80 U	320	710	Filtered		LAS
RD-59B		Primary	08/16/94	Uranium-235	0.07 U	0.7	1.2	Filtered		LAS
RD-59B		Primary	02/06/95	Actinium-228	-14 U	21	40	Filtered		LAS
RD-59B		Primary	02/06/95	Bismuth-214	0 U	13	20	Filtered		LAS
RD-59B		Primary	02/06/95	Lead-212	5 U	10	14	Filtered		LAS
RD-59B		Primary	02/06/95	Lead-214	14 U	13	19	Filtered		LAS
RD-59B		Primary	02/06/95	Potassium-40	5 U	76	120	Filtered		LAS
RD-59B		Primary	02/06/95	Thallium-208	1.8 U	7.8	11	Filtered		LAS
RD-59B		Primary	02/06/95	Thorium-234	1 U	71	170	Filtered		LAS
RD-59B		Primary	08/08/95	Actinium-228	-4 U	18	36	Filtered		LAS
RD-59B		Primary	08/08/95	Bismuth-214	3 U	13	20	Filtered		LAS
RD-59B		Primary	08/08/95	Lead-212	0.3 U	9.5	14	Filtered		LAS
RD-59B		Primary	08/08/95	Lead-214	-2 U	12	21	Filtered		LAS
RD-59B		Primary	08/08/95	Potassium-40	-30 U	19	110	Filtered		LAS
RD-59B		Primary	08/08/95	Thallium-208	1.1 U	7.1	10	Filtered		LAS
RD-59B		Primary	08/08/95	Thorium-234	6 U	69	160	Filtered		LAS
RD-59B		Primary	03/12/96	Actinium-228	-1.9 U	9	17	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-59B		Primary	03/12/96	Bismuth-214	32.3	9.4	11	Filtered		LAS
RD-59B		Primary	03/12/96	Lead-212	0.8 U	6.5	9.7	Filtered		LAS
RD-59B		Primary	03/12/96	Lead-214	31.6	8.2	10	Filtered		LAS
RD-59B		Primary	03/12/96	Potassium-40	-19 U	35	61	Filtered		LAS
RD-59B		Primary	03/12/96	Thallium-208	3.7 U	3.8	5.2	Filtered		LAS
RD-59B		Primary	03/12/96	Thorium-234	-15 U	61	220	Filtered		LAS
RD-59B		Primary	08/21/96	Actinium-228	11 U	20	38	Filtered		LAS
RD-59B		Primary	08/21/96	Bismuth-214	76	20	18	Filtered		LAS
RD-59B		Primary	08/21/96	Lead-212	1 U	10	15	Filtered		LAS
RD-59B		Primary	08/21/96	Lead-214	72	16	19	Filtered		LAS
RD-59B		Primary	08/21/96	Potassium-40	0 U	69	110	Filtered		LAS
RD-59B		Primary	08/21/96	Thallium-208	-1.7 U	6.7	10	Filtered		LAS
RD-59B		Primary	08/21/96	Thorium-234	-8 U	71	190	Filtered		LAS
RD-59B		Primary	02/16/97	Actinium-228	-1 U	26	48	Filtered		LAS
RD-59B		Primary	02/16/97	Bismuth-214	2 U	14	20	Filtered		LAS
RD-59B		Primary	02/16/97	Lead-212	4 U	11	15	Filtered		LAS
RD-59B		Primary	02/16/97	Lead-214	22	14	20	Filtered		LAS
RD-59B		Primary	02/16/97	Potassium-40	9 U	88	130	Filtered		LAS
RD-59B		Primary	02/16/97	Thallium-208	-0.4 U	8	11	Filtered		LAS
RD-59B		Primary	02/16/97	Thorium-234	15 U	81	210	Filtered		LAS
RD-59B		Primary	08/22/97	Actinium-228	-5.8 U	9.5	19	Filtered		LAS
RD-59B		Primary	08/22/97	Bismuth-212	18 U	20	25	Filtered		LAS
RD-59B		Primary	08/22/97	Bismuth-214	5.9 U	7.2	11	Filtered		LAS
RD-59B		Primary	08/22/97	Lead-210	-160 U	370	550	Filtered		LAS
RD-59B		Primary	08/22/97	Lead-212	8.1 U	6.3	8.6	Filtered		LAS
RD-59B		Primary	08/22/97	Lead-214	11.7	6.8	10	Filtered		LAS
RD-59B		Primary	08/22/97	Potassium-40	-17 U	32	58	Filtered		LAS
RD-59B		Primary	08/22/97	Thallium-208	1.7 U	3.6	5.1	Filtered		LAS
RD-59B		Primary	08/22/97	Thorium-234	8 U	60	97	Filtered		LAS
RD-59B		Primary	08/19/98	Actinium-228	59.5 U	---	59.5	Filtered		TN
RD-59B		Primary	08/19/98	Bismuth-212	90.5 U	---	90.5	Filtered		TN
RD-59B		Primary	08/19/98	Bismuth-214	46.5 U	---	46.5	Filtered		TN
RD-59B		Primary	08/19/98	Lead-210	563 U	---	563	Filtered		TN
RD-59B		Primary	08/19/98	Lead-212	20.3 U	---	20.3	Filtered		TN
RD-59B		Primary	08/19/98	Lead-214	30.6 U	---	30.6	Filtered		TN
RD-59B		Primary	08/19/98	Potassium-40	146 U	---	146	Filtered		TN
RD-59B		Primary	08/19/98	Thallium-208	14.9 U	---	14.9	Filtered		TN
RD-59B		Primary	08/19/98	Thorium-234	336 U	---	336	Filtered		TN
RD-59B		Primary	02/16/99	Actinium-228	66.6 U	---	66.6	Filtered		TN
RD-59B		Primary	02/16/99	Bismuth-212	104 U	---	104	Filtered		TN
RD-59B		Primary	02/16/99	Bismuth-214	28.1 U	---	28.1	Filtered		TN
RD-59B		Primary	02/16/99	Lead-210	765 U	---	765	Filtered		TN
RD-59B		Primary	02/16/99	Lead-212	21.7 U	---	21.7	Filtered		TN
RD-59B		Primary	02/16/99	Lead-214	26.6 U	---	26.6	Filtered		TN
RD-59B		Primary	02/16/99	Potassium-40	262 U	---	262	Filtered		TN

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-59B		Primary	02/16/99	Radium-226	204 U	---	204	Filtered		TN
RD-59B		Primary	02/16/99	Thallium-208	14.8 U	---	14.8	Filtered		TN
RD-59B		Primary	02/16/99	Thorium-234	324 U	---	324	Filtered		TN
RD-59B		Primary	02/16/99	Uranium-235	80.4 U	---	80.4	Filtered		TN
RD-59B		Primary	03/14/00	Actinium-228	30.2 U	---	30.2	Filtered		TR
RD-59B		Primary	03/14/00	Bismuth-212	53.1 U	---	53.1	Filtered		TR
RD-59B		Primary	03/14/00	Bismuth-214	12.3 U	---	12.3	Filtered		TR
RD-59B		Primary	03/14/00	Lead-210	815 U	---	815	Filtered		TR
RD-59B		Primary	03/14/00	Lead-212	15.3 U	---	15.3	Filtered		TR
RD-59B		Primary	03/14/00	Lead-214	12.6 U	---	12.6	Filtered		TR
RD-59B		Primary	03/14/00	Potassium-40	85.8 U	---	85.8	Filtered		TR
RD-59B		Primary	03/14/00	Radium-226	145 U	---	145	Filtered		TR
RD-59B		Primary	03/14/00	Thallium-208	7.34 U	---	7.34	Filtered		TR
RD-59B		Primary	03/14/00	Thorium-234	191 U	---	191	Filtered		TR
RD-59B		Primary	03/14/00	Uranium-235	35.3 U	---	35.3	Filtered		TR
RD-59B		Primary	02/17/01	Actinium-228	66.7 U	---	66.7	Filtered		ES
RD-59B		Primary	02/17/01	Bismuth-212	98.8 U	---	98.8	Filtered		ES
RD-59B		Primary	02/17/01	Bismuth-214	32.6 U	---	32.6	Filtered		ES
RD-59B		Primary	02/17/01	Lead-210	134 U	---	134	Filtered		ES
RD-59B		Primary	02/17/01	Lead-212	15.2 U	---	15.2	Filtered		ES
RD-59B		Primary	02/17/01	Lead-214	33.4	21	24.1	Filtered		ES
RD-59B		Primary	02/17/01	Potassium-40	156 U	---	156	Filtered		ES
RD-59B		Primary	02/17/01	Radium-226	157 U	---	157	Filtered		ES
RD-59B		Primary	02/17/01	Thallium-208	11.5 U	---	11.5	Filtered		ES
RD-59B		Primary	02/17/01	Thorium-234	203 U	---	203	Filtered		ES
RD-59B		Primary	02/17/01	Uranium-235	45 U	---	45	Filtered		ES
RD-59B		Primary	02/28/02	Actinium-228	5 U	5	5	Filtered		DL
RD-59B		Primary	02/28/02	Bismuth-212	5 U	3	5	Filtered		DL
RD-59B		Primary	02/28/02	Bismuth-214	5 U	3	5	Filtered		DL
RD-59B		Primary	02/28/02	Lead-210	5 U	3	5	Filtered		DL
RD-59B		Primary	02/28/02	Lead-212	5 U	3	5	Filtered		DL
RD-59B		Primary	02/28/02	Lead-214	5 U	3	5	Filtered		DL
RD-59B		Primary	02/28/02	Potassium-40	5 U	3	5	Filtered		DL
RD-59B		Primary	02/28/02	Radium-226	5 U	5	5	Filtered		DL
RD-59B		Primary	02/28/02	Thorium-234	5 U	5	5	Filtered		DL
RD-59B		Primary	02/28/02	Uranium-235	5 U	3	5	Filtered		DL
RD-59B		Primary	01/31/03	Actinium-228	9.42 U	---	9.42	Filtered		ES
RD-59B		Primary	01/31/03	Bismuth-212	14.9 U	---	14.9	Filtered		ES
RD-59B		Primary	01/31/03	Bismuth-214	4.08 U	---	4.08	Filtered		ES
RD-59B		Primary	01/31/03	Lead-210	449 U	---	449	Filtered		ES
RD-59B		Primary	01/31/03	Lead-212	2.78 U	---	2.78	Filtered		ES
RD-59B		Primary	01/31/03	Lead-214	3.94 U	---	3.94	Filtered		ES
RD-59B		Primary	01/31/03	Potassium-40	42.6 U	---	42.6	Filtered		ES
RD-59B		Primary	01/31/03	Radium-226	31 U	---	31	Filtered		ES
RD-59B		Primary	01/31/03	Thorium-234	62.9 U	---	62.9	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-59B		Primary	01/31/03	Uranium-235	12.1 U	---	12.1	Filtered		ES
RD-59B		Primary	11/05/04	Potassium-40	37 U	---	37	Filtered		ES
RD-59B		Primary	09/07/05	Potassium-40	14.5 U	---	14.5	Filtered		ES
RD-59B		Primary	02/22/06	Potassium-40	40.9 U	---	40.9	Filtered		ES
RD-59B		Primary	11/14/06	Potassium-40	30.7 U	---	30.7	Filtered		ES
RD-59B		Primary	02/28/07	Potassium-40	16.6 U	---	16.6	Filtered		ES
RD-59B		Split	02/28/07	Potassium-40	-20.4 U	24	31.6	Filtered		STL
RD-59B		Primary	05/20/08	Potassium-40	26.9 U	---	26.9	Filtered		ES
RD-59C		Primary	08/16/94	Actinium-228	20 U	130	210	Filtered		LAS
RD-59C		Primary	08/16/94	Bismuth-214	16 U	81	120	Filtered		LAS
RD-59C		Primary	08/16/94	Lead-212	28 U	57	78	Filtered		LAS
RD-59C		Primary	08/16/94	Lead-214	21 U	61	96	Filtered		LAS
RD-59C		Primary	08/16/94	Potassium-40	-70 U	390	650	Filtered		LAS
RD-59C		Primary	08/16/94	Thallium-208	-23 U	44	62	Filtered		LAS
RD-59C		Primary	08/16/94	Thorium-234	150 U	330	700	Filtered		LAS
RD-59C		Primary	08/16/94	Uranium-235	50 U	150	200	Filtered		LAS
RD-59C		Primary	02/06/95	Actinium-228	13 U	23	41	Filtered		LAS
RD-59C		Primary	02/06/95	Bismuth-214	12 U	16	23	Filtered		LAS
RD-59C		Primary	02/06/95	Lead-212	-2 U	11	17	Filtered		LAS
RD-59C		Primary	02/06/95	Lead-214	6 U	13	21	Filtered		LAS
RD-59C		Primary	02/06/95	Potassium-40	-36 U	83	140	Filtered		LAS
RD-59C		Primary	02/06/95	Thallium-208	3.7 U	8.3	12	Filtered		LAS
RD-59C		Primary	02/06/95	Thorium-234	-48 U	76	190	Filtered		LAS
RD-59C		Primary	08/08/95	Actinium-228	-13 U	16	52	Filtered		LAS
RD-59C		Primary	08/08/95	Bismuth-214	3 U	15	23	Filtered		LAS
RD-59C		Primary	08/08/95	Lead-212	-6.2 U	9.7	15	Filtered		LAS
RD-59C		Primary	08/08/95	Lead-214	10 U	12	19	Filtered		LAS
RD-59C		Primary	08/08/95	Potassium-40	-27 U	80	130	Filtered		LAS
RD-59C		Primary	08/08/95	Thallium-208	0.8 U	8.2	12	Filtered		LAS
RD-59C		Primary	08/08/95	Thorium-234	20 U	110	170	Filtered		LAS
RD-59C		Primary	03/12/96	Actinium-228	-38 U	18	41	Filtered		LAS
RD-59C		Primary	03/12/96	Bismuth-214	60	19	19	Filtered		LAS
RD-59C		Primary	03/12/96	Lead-212	3.4 U	9.7	14	Filtered		LAS
RD-59C		Primary	03/12/96	Lead-214	62	16	19	Filtered		LAS
RD-59C		Primary	03/12/96	Potassium-40	45 U	72	97	Filtered		LAS
RD-59C		Primary	03/12/96	Thallium-208	0.9 U	6.5	9.2	Filtered		LAS
RD-59C		Primary	03/12/96	Thorium-234	-3 U	71	190	Filtered		LAS
RD-59C		Primary	03/12/96	Uranium-235	11 U	28	41	Filtered		LAS
RD-59C		Primary	08/21/96	Actinium-228	8 U	20	37	Filtered		LAS
RD-59C		Primary	08/21/96	Bismuth-214	36	16	20	Filtered		LAS
RD-59C		Primary	08/21/96	Lead-212	-3.4 U	9.4	14	Filtered		LAS
RD-59C		Primary	08/21/96	Lead-214	41	14	18	Filtered		LAS
RD-59C		Primary	08/21/96	Potassium-40	-13 U	74	130	Filtered		LAS
RD-59C		Primary	08/21/96	Thallium-208	-2.4 U	6.9	10	Filtered		LAS
RD-59C		Primary	08/21/96	Thorium-234	2 U	72	190	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-59C		Primary	02/16/97	Actinium-228	-15 U	18	41	Filtered		LAS
RD-59C		Primary	02/16/97	Bismuth-214	9 U	14	20	Filtered		LAS
RD-59C		Primary	02/16/97	Lead-212	3 U	9.6	14	Filtered		LAS
RD-59C		Primary	02/16/97	Lead-214	15 U	12	19	Filtered		LAS
RD-59C		Primary	02/16/97	Potassium-40	-10 U	69	120	Filtered		LAS
RD-59C		Primary	02/16/97	Thallium-208	4.2 U	7.3	10	Filtered		LAS
RD-59C		Primary	02/16/97	Thorium-234	-31 U	70	180	Filtered		LAS
RD-59C		Primary	08/22/97	Actinium-228	0.4 U	9.1	16	Filtered		LAS
RD-59C		Primary	08/22/97	Bismuth-212	5 U	20	27	Filtered		LAS
RD-59C		Primary	08/22/97	Bismuth-214	15.4	7.8	10	Filtered		LAS
RD-59C		Primary	08/22/97	Lead-210	-190 U	350	530	Filtered		LAS
RD-59C		Primary	08/22/97	Lead-212	2.5 U	6.1	8.8	Filtered		LAS
RD-59C		Primary	08/22/97	Lead-214	16.3	6.7	8.7	Filtered		LAS
RD-59C		Primary	08/22/97	Potassium-40	14 U	33	52	Filtered		LAS
RD-59C		Primary	08/22/97	Thallium-208	2.3 U	3.6	5	Filtered		LAS
RD-59C		Primary	08/22/97	Thorium-234	-36 U	59	99	Filtered		LAS
RD-59C		Primary	08/19/98	Actinium-228	49.9 U	---	49.9	Filtered		TN
RD-59C		Primary	08/19/98	Bismuth-212	99.7 U	---	99.7	Filtered		TN
RD-59C		Primary	08/19/98	Bismuth-214	28 U	---	28	Filtered		TN
RD-59C		Primary	08/19/98	Lead-210	601 U	---	601	Filtered		TN
RD-59C		Primary	08/19/98	Lead-212	21.6 U	---	21.6	Filtered		TN
RD-59C		Primary	08/19/98	Lead-214	26.3 U	---	26.3	Filtered		TN
RD-59C		Primary	08/19/98	Potassium-40	159 U	---	159	Filtered		TN
RD-59C		Primary	08/19/98	Thallium-208	14.4 U	---	14.4	Filtered		TN
RD-59C		Primary	08/19/98	Thorium-234	369 U	---	369	Filtered		TN
RD-59C		Primary	02/16/99	Actinium-228	28 U	---	28	Filtered		TN
RD-59C		Primary	02/16/99	Bismuth-212	52.2 U	---	52.2	Filtered		TN
RD-59C		Primary	02/16/99	Bismuth-214	13.3 U	---	13.3	Filtered		TN
RD-59C		Primary	02/16/99	Lead-210	280 U	---	280	Filtered		TN
RD-59C		Primary	02/16/99	Lead-212	11.6 U	---	11.6	Filtered		TN
RD-59C		Primary	02/16/99	Lead-214	12.2 U	---	12.2	Filtered		TN
RD-59C		Primary	02/16/99	Potassium-40	102 U	---	102	Filtered		TN
RD-59C		Primary	02/16/99	Radium-226	121 U	---	121	Filtered		TN
RD-59C		Primary	02/16/99	Thallium-208	6.8 U	---	6.8	Filtered		TN
RD-59C		Primary	02/16/99	Thorium-234	176 U	---	176	Filtered		TN
RD-59C		Primary	02/16/99	Uranium-235	35.4 U	---	35.4	Filtered		TN
RD-59C		Primary	03/14/00	Actinium-228	70 U	---	70	Filtered		TR
RD-59C		Primary	03/14/00	Bismuth-212	113 U	---	113	Filtered		TR
RD-59C		Primary	03/14/00	Bismuth-214	32.2 U	---	32.2	Filtered		TR
RD-59C		Primary	03/14/00	Lead-210	637 U	---	637	Filtered		TR
RD-59C		Primary	03/14/00	Lead-212	20.6 U	---	20.6	Filtered		TR
RD-59C		Primary	03/14/00	Lead-214	29 U	---	29	Filtered		TR
RD-59C		Primary	03/14/00	Potassium-40	436 U	---	436	Filtered		TR
RD-59C		Primary	03/14/00	Radium-226	285 U	---	285	Filtered		TR
RD-59C		Primary	03/14/00	Thallium-208	33.1 U	---	33.1	Filtered		TR

See last page of table for notes and abbreviations.

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RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-59C		Primary	03/14/00	Thorium-234	235 U	---	235	Filtered		TR
RD-59C		Primary	03/14/00	Uranium-235	75.5 U	---	75.5	Filtered		TR
RD-59C		Primary	02/17/01	Actinium-228	53.3 U	---	53.3	Filtered		ES
RD-59C		Primary	02/17/01	Bismuth-212	93 U	---	93	Filtered		ES
RD-59C		Primary	02/17/01	Bismuth-214	28.6	24	26.5	Filtered		ES
RD-59C		Primary	02/17/01	Lead-210	897 U	---	897	Filtered		ES
RD-59C		Primary	02/17/01	Lead-212	18 U	---	18	Filtered		ES
RD-59C		Primary	02/17/01	Lead-214	55.2	27	30.1	Filtered		ES
RD-59C		Primary	02/17/01	Potassium-40	218 U	---	218	Filtered		ES
RD-59C		Primary	02/17/01	Radium-226	185 U	---	185	Filtered		ES
RD-59C		Primary	02/17/01	Thallium-208	13.7 U	---	13.7	Filtered		ES
RD-59C		Primary	02/17/01	Thorium-234	287 U	---	287	Filtered		ES
RD-59C		Primary	02/17/01	Uranium-235	66.4 U	---	66.4	Filtered		ES
RD-59C		Primary	02/28/02	Actinium-228	5 U	5	5	Filtered		DL
RD-59C		Primary	02/28/02	Bismuth-212	5 U	3	5	Filtered		DL
RD-59C		Primary	02/28/02	Bismuth-214	5 U	3	5	Filtered		DL
RD-59C		Primary	02/28/02	Lead-210	5 U	3	5	Filtered		DL
RD-59C		Primary	02/28/02	Lead-212	5 U	3	5	Filtered		DL
RD-59C		Primary	02/28/02	Lead-214	5 U	3	5	Filtered		DL
RD-59C		Primary	02/28/02	Potassium-40	5 U	3	5	Filtered		DL
RD-59C		Primary	02/28/02	Radium-226	5 U	5	5	Filtered		DL
RD-59C		Primary	02/28/02	Thorium-234	5 U	5	5	Filtered		DL
RD-59C		Primary	02/28/02	Uranium-235	5 U	3	5	Filtered		DL
RD-59C		Primary	01/31/03	Actinium-228	9.29 U	---	9.29	Filtered		ES
RD-59C		Primary	01/31/03	Bismuth-212	16.4 U	---	16.4	Filtered		ES
RD-59C		Primary	01/31/03	Bismuth-214	4.01 U	---	4.01	Filtered		ES
RD-59C		Primary	01/31/03	Lead-210	172 U	---	172	Filtered		ES
RD-59C		Primary	01/31/03	Lead-212	3.1 U	---	3.1	Filtered		ES
RD-59C		Primary	01/31/03	Lead-214	4.3 U	---	4.3	Filtered		ES
RD-59C		Primary	01/31/03	Potassium-40	28.8 U	---	28.8	Filtered		ES
RD-59C		Primary	01/31/03	Radium-226	32.7 U	---	32.7	Filtered		ES
RD-59C		Primary	01/31/03	Thorium-234	51.5 U	---	51.5	Filtered		ES
RD-59C		Primary	01/31/03	Uranium-235	12.7 U	---	12.7	Filtered		ES
RD-59C		Primary	11/05/04	Potassium-40	9.69 U	---	9.69	Filtered		ES
RD-59C		Primary	09/07/05	Potassium-40	25.3 U	---	25.3	Filtered		ES
RD-59C		Primary	02/22/06	Potassium-40	19.2 U	---	19.2	Filtered		ES
RD-59C		Split	02/22/06	Potassium-40	-27.2 U	22	39.1	Filtered		STL
RD-59C		Primary	11/14/06	Potassium-40	22 U	---	22	Filtered		ES
RD-59C		Primary	02/28/07	Potassium-40	23.8 U	---	23.8	Filtered		ES
RD-59C		Primary	05/20/08	Potassium-40	33.2 U	---	33.2	Filtered		ES
RD-61		Primary	05/28/98	Actinium-228	29.2 U	---	29.2	Filtered		TN
RD-61		Primary	05/28/98	Bismuth-212	49.7 U	---	49.7	Filtered		TN
RD-61		Primary	05/28/98	Bismuth-214	13.2 U	---	13.2	Filtered		TN
RD-61		Primary	05/28/98	Lead-210	534 U	---	534	Filtered		TN
RD-61		Primary	05/28/98	Lead-212	10 U	---	10	Filtered		TN

See last page of table for notes and abbreviations.

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RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-61		Primary	05/28/98	Lead-214	12.7 U	---	12.7	Filtered		TN
RD-61		Primary	05/28/98	Potassium-40	83.5 U	---	83.5	Filtered		TN
RD-61		Primary	05/28/98	Thallium-208	7.19 U	---	7.19	Filtered		TN
RD-61		Primary	05/28/98	Thorium-234	180 U	---	180	Filtered		TN
RD-63		Primary	02/02/99	Actinium-228	30 U	---	30	Filtered		TN
RD-63		Primary	02/02/99	Bismuth-212	45.7 U	---	45.7	Filtered		TN
RD-63		Primary	02/02/99	Bismuth-214	13 U	---	13	Filtered		TN
RD-63		Primary	02/02/99	Lead-210	327 U	---	327	Filtered		TN
RD-63		Primary	02/02/99	Lead-212	10.6 U	---	10.6	Filtered		TN
RD-63		Primary	02/02/99	Lead-214	12.7 U	---	12.7	Filtered		TN
RD-63		Primary	02/02/99	Potassium-40	100 U	---	100	Filtered		TN
RD-63		Primary	02/02/99	Radium-226	108 U	---	108	Filtered		TN
RD-63		Primary	02/02/99	Thallium-208	10.3 U	---	10.3	Filtered		TN
RD-63		Primary	02/02/99	Thorium-234	195 U	---	195	Filtered		TN
RD-63		Primary	02/02/99	Uranium-235	35.4 U	---	35.4	Filtered		TN
RD-63		Primary	02/16/00	Actinium-228	52.1 U	---	52.1	Filtered		TR
RD-63		Primary	02/16/00	Bismuth-212	134 U	---	134	Filtered		TR
RD-63		Primary	02/16/00	Bismuth-214	24.5 U	---	24.5	Filtered		TR
RD-63		Primary	02/16/00	Lead-210	477 U	---	477	Filtered		TR
RD-63		Primary	02/16/00	Lead-212	16.4 U	---	16.4	Filtered		TR
RD-63		Primary	02/16/00	Lead-214	46.3 U	---	46.3	Filtered		TR
RD-63		Primary	02/16/00	Potassium-40	345 U	---	345	Filtered		TR
RD-63		Primary	02/16/00	Radium-226	225 U	---	225	Filtered		TR
RD-63		Primary	02/16/00	Thallium-208	19 U	---	19	Filtered		TR
RD-63		Primary	02/16/00	Thorium-234	190 U	---	190	Filtered		TR
RD-63		Primary	02/16/00	Uranium-235	58.5 U	---	58.5	Filtered		TR
RD-63		Primary	02/23/01	Actinium-228	54.1 U	---	54.1	Filtered		ES
RD-63		Primary	02/23/01	Bismuth-212	92.7 U	---	92.7	Filtered		ES
RD-63		Primary	02/23/01	Bismuth-214	220	32	30.1	Filtered		ES
RD-63		Primary	02/23/01	Lead-210	3160 U	---	3160	Filtered		ES
RD-63		Primary	02/23/01	Lead-212	19.6 U	---	19.6	Filtered		ES
RD-63		Primary	02/23/01	Lead-214	218	32	33.8	Filtered		ES
RD-63		Primary	02/23/01	Potassium-40	239 U	---	239	Filtered		ES
RD-63		Primary	02/23/01	Radium-226	362 U	---	362	Filtered		ES
RD-63		Primary	02/23/01	Thallium-208	18.4 U	---	18.4	Filtered		ES
RD-63		Primary	02/23/01	Thorium-234	394 U	---	394	Filtered		ES
RD-63		Primary	02/23/01	Uranium-235	75.8 U	---	75.8	Filtered		ES
RD-63		Primary	02/14/02	Actinium-228	3 U	0.16	3	Filtered		DL
RD-63		Primary	02/14/02	Bismuth-212	3 U	3	3	Filtered		DL
RD-63		Primary	02/14/02	Bismuth-214	3 U	3	3	Filtered		DL
RD-63		Primary	02/14/02	Lead-210	5 U	5	5	Filtered		DL
RD-63		Primary	02/14/02	Lead-212	3 U	3	3	Filtered		DL
RD-63		Primary	02/14/02	Lead-214	5 U	3	5	Filtered		DL
RD-63		Primary	02/14/02	Potassium-40	5 U	3	5	Filtered		DL
RD-63		Primary	02/14/02	Radium-226	3 U	3	3	Filtered		DL

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-63		Primary	02/14/02	Thorium-234	5 U	5	5	Filtered		DL
RD-63		Primary	02/14/02	Uranium-235	5 U	0.7	5	Filtered		DL
RD-63		Primary	02/05/03	Actinium-228	9.39 U	---	9.39	Filtered		ES
RD-63		Primary	02/05/03	Bismuth-212	15.6 U	---	15.6	Filtered		ES
RD-63		Primary	02/05/03	Bismuth-214	4.39 U	---	4.39	Filtered		ES
RD-63		Primary	02/05/03	Lead-210	302 U	---	302	Filtered		ES
RD-63		Primary	02/05/03	Lead-212	2.94 U	---	2.94	Filtered		ES
RD-63		Primary	02/05/03	Lead-214	3.9 U	---	3.9	Filtered		ES
RD-63		Primary	02/05/03	Potassium-40	51.2 U	---	51.2	Filtered		ES
RD-63		Primary	02/05/03	Radium-226	28.5 U	---	28.5	Filtered		ES
RD-63		Primary	02/05/03	Thorium-234	57 U	---	57	Filtered		ES
RD-63		Primary	02/05/03	Uranium-235	10.9 U	---	10.9	Filtered		ES
RD-63		Primary	02/24/04	Actinium-228	36.1 U	---	36.1	Filtered		ES
RD-63		Primary	02/24/04	Bismuth-212	60.1 U	---	60.1	Filtered		ES
RD-63		Primary	02/24/04	Bismuth-214	19.5 U	---	19.5	Filtered		ES
RD-63		Primary	02/24/04	Lead-210	1660 U	---	1660	Filtered		ES
RD-63		Primary	02/24/04	Lead-212	11.7 U	---	11.7	Filtered		ES
RD-63		Primary	02/24/04	Lead-214	22.2 U	---	22.2	Filtered		ES
RD-63		Primary	02/24/04	Potassium-40	156 U	---	156	Filtered		ES
RD-63		Primary	02/24/04	Radium-226	118 U	---	118	Filtered		ES
RD-63		Primary	02/24/04	Thallium-208	8.46 U	---	8.46	Filtered		ES
RD-63		Primary	02/24/04	Thorium-234	235 U	---	235	Filtered		ES
RD-63		Primary	02/24/04	Uranium-235	46.7 U	---	46.7	Filtered		ES
RD-63		Primary	08/25/05	Potassium-40	14.3 U	---	14.3	Filtered		ES
RD-63		Primary	02/16/06	Potassium-40	46.3 U	---	46.3	Filtered		ES
RD-63		Primary	05/24/07	Potassium-40	17.3 U	---	17.3	Filtered		ES
RD-63		Split	05/24/07	Potassium-40	-42.4 U	27	38.8	Filtered		STL
RD-63		Primary	02/06/08	Potassium-40	10.3 U	---	10.3	Filtered		ES
RD-64		Primary	05/10/01	Actinium-228	26.7 U	---	26.7	Filtered		ES
RD-64		Primary	05/10/01	Bismuth-212	45.9 U	---	45.9	Filtered		ES
RD-64		Primary	05/10/01	Bismuth-214	11.5 U	---	11.5	Filtered		ES
RD-64		Primary	05/10/01	Lead-210	676 U	---	676	Filtered		ES
RD-64		Primary	05/10/01	Lead-212	13.4 U	---	13.4	Filtered		ES
RD-64		Primary	05/10/01	Lead-214	10.9 U	---	10.9	Filtered		ES
RD-64		Primary	05/10/01	Potassium-40	70.1 U	---	70.1	Filtered		ES
RD-64		Primary	05/10/01	Radium-226	92.2 U	---	92.2	Filtered		ES
RD-64		Primary	05/10/01	Thallium-208	9.4 U	---	9.4	Filtered		ES
RD-64		Primary	05/10/01	Thorium-234	157 U	---	157	Filtered		ES
RD-64		Primary	05/10/01	Uranium-235	27 U	---	27	Filtered		ES
RD-64		Primary	02/28/02	Actinium-228	5 U	5	5	Filtered		DL
RD-64		Primary	02/28/02	Bismuth-212	5 U	3	5	Filtered		DL
RD-64		Primary	02/28/02	Bismuth-214	3 U	3	3	Filtered		DL
RD-64		Primary	02/28/02	Lead-210	3 U	3	3	Filtered		DL
RD-64		Primary	02/28/02	Lead-212	5 U	3	5	Filtered		DL
RD-64		Primary	02/28/02	Lead-214	5 U	3	5	Filtered		DL

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-64		Primary	02/28/02	Potassium-40	7	3	6	Filtered		DL
RD-64		Primary	02/28/02	Radium-226	5 U	3	5	Filtered		DL
RD-64		Primary	02/28/02	Thorium-234	5 U	5	5	Filtered		DL
RD-64	Z6	Primary	01/29/03	Actinium-228	3.38 U	---	3.38	Filtered		ES
RD-64	Z6	Primary	01/29/03	Bismuth-212	6.65 U	---	6.65	Filtered		ES
RD-64	Z6	Primary	01/29/03	Bismuth-214	1.77 U	---	1.77	Filtered		ES
RD-64	Z6	Primary	01/29/03	Lead-210	79.1 U	---	79.1	Filtered		ES
RD-64	Z6	Primary	01/29/03	Lead-212	1.44 U	---	1.44	Filtered		ES
RD-64	Z6	Primary	01/29/03	Lead-214	1.83 U	---	1.83	Filtered		ES
RD-64	Z6	Primary	01/29/03	Potassium-40	9.26 U	---	9.26	Filtered		ES
RD-64	Z6	Primary	01/29/03	Radium-226	14.6 U	---	14.6	Filtered		ES
RD-64	Z6	Primary	01/29/03	Thorium-234	28.5 U	---	28.5	Filtered		ES
RD-64	Z6	Primary	01/29/03	Uranium-235	5.37 U	---	5.37	Filtered		ES
RD-64	Z6	Primary	02/14/05	Potassium-40	13.6 U	---	13.6	Filtered		ES
RD-64	Z6	Primary	02/16/06	Potassium-40	51.2 U	---	51.2	Filtered		ES
RD-64	Z6	Primary	02/08/07	Potassium-40	21.5 U	---	21.5	Filtered		ES
RD-64	Z7	Primary	02/06/08	Potassium-40	22.2 U	---	22.2	Filtered		ES
RD-66		Primary	09/30/97	Actinium-228	-1 U	10	20	Filtered		LAS
RD-66		Primary	09/30/97	Bismuth-212	20 U	22	28	Filtered		LAS
RD-66		Primary	09/30/97	Bismuth-214	66	12	11	Filtered		LAS
RD-66		Primary	09/30/97	Lead-210	-20 U	380	520	Filtered		LAS
RD-66		Primary	09/30/97	Lead-212	3 U	6.4	9.3	Filtered		LAS
RD-66		Primary	09/30/97	Lead-214	76	11	11	Filtered		LAS
RD-66		Primary	09/30/97	Potassium-40	30 U	38	55	Filtered		LAS
RD-66		Primary	09/30/97	Radium-226	22 U	75	110	Filtered		LAS
RD-66		Primary	09/30/97	Thallium-208	1.2 U	3.6	5.3	Filtered		LAS
RD-66		Primary	09/30/97	Thorium-234	-5 U	63	100	Filtered		LAS
RD-66		Primary	09/30/97	Uranium-235	3 U	20	30	Filtered		LAS
RD-68A		Primary	07/09/97	Actinium-228	-1 U	20	37	Filtered		LAS
RD-68A		Primary	07/09/97	Bismuth-212	-10 U	51	77	Filtered		LAS
RD-68A		Primary	07/09/97	Bismuth-214	12 U	13	17	Filtered		LAS
RD-68A		Primary	07/09/97	Lead-210	-41 U	98	160	Filtered		LAS
RD-68A		Primary	07/09/97	Lead-212	-1.3 U	9.2	14	Filtered		LAS
RD-68A		Primary	07/09/97	Lead-214	14 U	11	18	Filtered		LAS
RD-68A		Primary	07/09/97	Potassium-40	0 U	68	110	Filtered		LAS
RD-68A		Primary	07/09/97	Radium-226	50 U	120	170	Filtered		LAS
RD-68A		Primary	07/09/97	Thallium-208	3.1 U	7.6	9.1	Filtered		LAS
RD-68A		Primary	07/09/97	Thorium-234	10 U	68	140	Filtered		LAS
RD-68A		Primary	07/09/97	Uranium-235	-4 U	27	42	Filtered		LAS
RD-68B		Primary	07/10/97	Actinium-228	11 U	22	38	Filtered		LAS
RD-68B		Primary	07/10/97	Bismuth-212	-25 U	23	74	Filtered		LAS
RD-68B		Primary	07/10/97	Bismuth-214	22	14	18	Filtered		LAS
RD-68B		Primary	07/10/97	Lead-210	20 U	110	170	Filtered		LAS
RD-68B		Primary	07/10/97	Lead-212	4.7 U	9.5	13	Filtered		LAS
RD-68B		Primary	07/10/97	Lead-214	19	12	18	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-68B		Primary	07/10/97	Potassium-40	35 U	80	120	Filtered		LAS
RD-68B		Primary	07/10/97	Radium-226	10 U	110	170	Filtered		LAS
RD-68B		Primary	07/10/97	Thallium-208	5 U	7.4	9.9	Filtered		LAS
RD-68B		Primary	07/10/97	Thorium-234	-10 U	70	140	Filtered		LAS
RD-68B		Primary	07/10/97	Uranium-235	1 U	27	42	Filtered		LAS
RD-69		Primary	05/28/98	Actinium-228	23.4 U	---	23.4	Filtered		TN
RD-69		Primary	05/28/98	Bismuth-212	52.3 U	---	52.3	Filtered		TN
RD-69		Primary	05/28/98	Bismuth-214	13.5 U	---	13.5	Filtered		TN
RD-69		Primary	05/28/98	Lead-210	315 U	---	315	Filtered		TN
RD-69		Primary	05/28/98	Lead-212	10.1 U	---	10.1	Filtered		TN
RD-69		Primary	05/28/98	Lead-214	18.4 U	---	18.4	Filtered		TN
RD-69		Primary	05/28/98	Potassium-40	81 U	---	81	Filtered		TN
RD-69		Primary	05/28/98	Thallium-208	7.09 U	---	7.09	Filtered		TN
RD-69		Primary	05/28/98	Thorium-234	182 U	---	182	Filtered		TN
RD-71		Primary	09/30/97	Actinium-228	9 U	10	19	Filtered		LAS
RD-71		Primary	09/30/97	Bismuth-212	-3 U	22	33	Filtered		LAS
RD-71		Primary	09/30/97	Bismuth-214	156	19	12	Filtered		LAS
RD-71		Primary	09/30/97	Lead-210	270 U	420	560	Filtered		LAS
RD-71		Primary	09/30/97	Lead-212	2.3 U	6.7	9.9	Filtered		LAS
RD-71		Primary	09/30/97	Lead-214	184 U	19	11	Filtered		LAS
RD-71		Primary	09/30/97	Potassium-40	16 U	39	60	Filtered		LAS
RD-71		Primary	09/30/97	Radium-226	-3 U	77	120	Filtered		LAS
RD-71		Primary	09/30/97	Thallium-208	-1.8 U	3.7	5.8	Filtered		LAS
RD-71		Primary	09/30/97	Thorium-234	-25 U	65	110	Filtered		LAS
RD-71		Primary	09/30/97	Uranium-235	-5 U	14	34	Filtered		LAS
RD-74		Primary	05/13/99	Actinium-228	61.4 U	---	61.4	Filtered		TN
RD-74		Primary	05/13/99	Bismuth-212	100 U	---	100	Filtered		TN
RD-74		Primary	05/13/99	Bismuth-214	27.4 U	---	27.4	Filtered		TN
RD-74		Primary	05/13/99	Lead-210	111 U	---	111	Filtered		TN
RD-74		Primary	05/13/99	Lead-212	18.4 U	---	18.4	Filtered		TN
RD-74		Primary	05/13/99	Lead-214	26.3 U	---	26.3	Filtered		TN
RD-74		Primary	05/13/99	Potassium-40	179 U	---	179	Filtered		TN
RD-74		Primary	05/13/99	Radium-226	172 U	---	172	Filtered		TN
RD-74		Primary	05/13/99	Thallium-208	12.2 U	---	12.2	Filtered		TN
RD-74		Primary	05/13/99	Thorium-234	238 U	---	238	Filtered		TN
RD-74		Primary	05/13/99	Uranium-235	51.4 U	---	51.4	Filtered		TN
RD-75		Primary	08/30/05	Potassium-40	59.1 U	---	59.1	Filtered		ES
RD-85		Primary	08/13/04	Actinium-228	44 U	---	44	Filtered		ES
RD-85		Primary	08/13/04	Bismuth-212	80.3 U	---	80.3	Filtered		ES
RD-85		Primary	08/13/04	Bismuth-214	24 U	---	24	Filtered		ES
RD-85		Primary	08/13/04	Lead-210	400 U	---	400	Filtered		ES
RD-85		Primary	08/13/04	Lead-212	14.5 U	---	14.5	Filtered		ES
RD-85		Primary	08/13/04	Lead-214	20.7 U	---	20.7	Filtered		ES
RD-85		Primary	08/13/04	Potassium-40	128 U	---	128	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-85		Primary	08/13/04	Radium-226	135 U	---	135	Filtered		ES
RD-85		Primary	08/13/04	Thallium-208	9.91 U	---	9.91	Filtered		ES
RD-85		Primary	08/13/04	Thorium-234	150 U	---	150	Filtered		ES
RD-85		Primary	08/13/04	Uranium-235	43.5 U	---	43.5	Filtered		ES
RD-85		Primary	02/23/05	Potassium-40	58.4 U	---	58.4	Filtered		ES
RD-86		Primary	08/13/04	Actinium-228	69.6 U	---	69.6	Filtered		ES
RD-86		Primary	08/13/04	Bismuth-212	115 U	---	115	Filtered		ES
RD-86		Primary	08/13/04	Bismuth-214	28.8 U	---	28.8	Filtered		ES
RD-86		Primary	08/13/04	Lead-210	2980 U	---	2980	Filtered		ES
RD-86		Primary	08/13/04	Lead-212	22.4 U	---	22.4	Filtered		ES
RD-86		Primary	08/13/04	Lead-214	27.5 U	---	27.5	Filtered		ES
RD-86		Primary	08/13/04	Potassium-40	257 U	---	257	Filtered		ES
RD-86		Primary	08/13/04	Radium-226	211 U	---	211	Filtered		ES
RD-86		Primary	08/13/04	Thallium-208	15 U	---	15	Filtered		ES
RD-86		Primary	08/13/04	Thorium-234	420 U	---	420	Filtered		ES
RD-86		Primary	08/13/04	Uranium-235	78.3 U	---	78.3	Filtered		ES
RD-86		Primary	02/23/05	Potassium-40	48.6 J	33	19.7	Filtered		ES
RD-87		Primary	08/18/04	Actinium-228	64.4 U	---	64.4	Filtered		ES
RD-87		Primary	08/18/04	Bismuth-212	110 U	---	110	Filtered		ES
RD-87		Primary	08/18/04	Bismuth-214	42.1 U	---	42.1	Filtered		ES
RD-87		Primary	08/18/04	Lead-210	959 U	---	959	Filtered		ES
RD-87		Primary	08/18/04	Lead-212	21.5 U	---	21.5	Filtered		ES
RD-87		Primary	08/18/04	Lead-214	27.6 U	---	27.6	Filtered		ES
RD-87		Primary	08/18/04	Potassium-40	222 U	---	222	Filtered		ES
RD-87		Primary	08/18/04	Radium-226	196 U	---	196	Filtered		ES
RD-87		Primary	08/18/04	Thallium-208	14.6 U	---	14.6	Filtered		ES
RD-87		Primary	08/18/04	Thorium-234	311 U	---	311	Filtered		ES
RD-87		Primary	08/18/04	Uranium-235	71.7 U	---	71.7	Filtered		ES
RD-87		Primary	08/24/05	Potassium-40	14.5 U	---	14.5	Filtered		ES
RD-88		Primary	08/20/04	Actinium-228	48.5 U	---	48.5	Filtered		ES
RD-88		Primary	08/20/04	Bismuth-212	83.3 U	---	83.3	Filtered		ES
RD-88		Primary	08/20/04	Bismuth-214	29 U	---	29	Filtered		ES
RD-88		Primary	08/20/04	Lead-210	134 U	---	134	Filtered		ES
RD-88		Primary	08/20/04	Lead-212	15.6 U	---	15.6	Filtered		ES
RD-88		Primary	08/20/04	Lead-214	26.8 U	---	26.8	Filtered		ES
RD-88		Primary	08/20/04	Potassium-40	119 U	---	119	Filtered		ES
RD-88		Primary	08/20/04	Radium-226	141 U	---	141	Filtered		ES
RD-88		Primary	08/20/04	Thallium-208	11 U	---	11	Filtered		ES
RD-88		Primary	08/20/04	Thorium-234	155 U	---	155	Filtered		ES
RD-88		Primary	08/20/04	Uranium-235	47 U	---	47	Filtered		ES
RD-88		Primary	08/25/05	Potassium-40	30.8 U	---	30.8	Filtered		ES
RD-89		Primary	05/24/05	Potassium-40	37 U	---	37	Filtered		ES
RD-89		Duplicate	05/24/05	Potassium-40	21.3 U	---	21.3	Filtered		ES
RD-89		Primary	06/01/05	Potassium-40	25 U	---	25	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-90		Primary	03/25/04	Actinium-228	45.8 U	---	45.8	Filtered		ES
RD-90		Primary	03/25/04	Bismuth-212	73.5 U	---	73.5	Filtered		ES
RD-90		Primary	03/25/04	Bismuth-214	19.3 U	---	19.3	Filtered		ES
RD-90		Primary	03/25/04	Lead-210	703 U	---	703	Filtered		ES
RD-90		Primary	03/25/04	Lead-212	14.8 U	---	14.8	Filtered		ES
RD-90		Primary	03/25/04	Lead-214	17.8 U	---	17.8	Filtered		ES
RD-90		Primary	03/25/04	Potassium-40	149	140	110	Filtered		ES
RD-90		Primary	03/25/04	Radium-226	135 U	---	135	Filtered		ES
RD-90		Primary	03/25/04	Thallium-208	16.1 U	---	16.1	Filtered		ES
RD-90		Primary	03/25/04	Thorium-234	229 U	---	229	Filtered		ES
RD-90		Primary	03/25/04	Uranium-235	49.5 U	---	49.5	Filtered		ES
RD-90		Primary	04/15/04	Actinium-228	56.6 U	---	56.6	Filtered		ES
RD-90		Primary	04/15/04	Bismuth-212	87.9 U	---	87.9	Filtered		ES
RD-90		Primary	04/15/04	Bismuth-214	25 U	---	25	Filtered		ES
RD-90		Primary	04/15/04	Lead-210	2600 U	---	2600	Filtered		ES
RD-90		Primary	04/15/04	Lead-212	17.6 U	---	17.6	Filtered		ES
RD-90		Primary	04/15/04	Lead-214	21.8 U	---	21.8	Filtered		ES
RD-90		Primary	04/15/04	Potassium-40	241 U	---	241	Filtered		ES
RD-90		Primary	04/15/04	Radium-226	174 U	---	174	Filtered		ES
RD-90		Primary	04/15/04	Thallium-208	11.8 U	---	11.8	Filtered		ES
RD-90		Primary	04/15/04	Thorium-234	357 U	---	357	Filtered		ES
RD-90		Primary	04/15/04	Uranium-235	70 U	---	70	Filtered		ES
RD-90		Primary	08/25/05	Potassium-40	8.6 U	---	8.6	Filtered		ES
RD-91		Primary	03/25/04	Actinium-228	21.1 U	---	21.1	Filtered		ES
RD-91		Primary	03/25/04	Bismuth-212	35.3 U	---	35.3	Filtered		ES
RD-91		Primary	03/25/04	Bismuth-214	10 U	---	10	Filtered		ES
RD-91		Primary	03/25/04	Lead-210	319 U	---	319	Filtered		ES
RD-91		Primary	03/25/04	Lead-212	6.83 U	---	6.83	Filtered		ES
RD-91		Primary	03/25/04	Lead-214	8.86 U	---	8.86	Filtered		ES
RD-91		Primary	03/25/04	Potassium-40	78 U	---	78	Filtered		ES
RD-91		Primary	03/25/04	Radium-226	68.6 U	---	68.6	Filtered		ES
RD-91		Primary	03/25/04	Thallium-208	4.93 U	---	4.93	Filtered		ES
RD-91		Primary	03/25/04	Thorium-234	124 U	---	124	Filtered		ES
RD-91		Primary	03/25/04	Uranium-235	21.5 U	---	21.5	Filtered		ES
RD-91		Primary	04/15/04	Actinium-228	34.1 U	---	34.1	Filtered		ES
RD-91		Primary	04/15/04	Bismuth-212	70.4 U	---	70.4	Filtered		ES
RD-91		Primary	04/15/04	Bismuth-214	18.5 U	---	18.5	Filtered		ES
RD-91		Primary	04/15/04	Lead-210	173 U	---	173	Filtered		ES
RD-91		Primary	04/15/04	Lead-212	20.4 U	---	20.4	Filtered		ES
RD-91		Primary	04/15/04	Lead-214	17.9 U	---	17.9	Filtered		ES
RD-91		Primary	04/15/04	Potassium-40	86.1 U	---	86.1	Filtered		ES
RD-91		Primary	04/15/04	Radium-226	133 U	---	133	Filtered		ES
RD-91		Primary	04/15/04	Thallium-208	9.22 U	---	9.22	Filtered		ES
RD-91		Primary	04/15/04	Thorium-234	180 U	---	180	Filtered		ES
RD-91		Primary	04/15/04	Uranium-235	47.9 U	---	47.9	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-92		Primary	03/25/04	Actinium-228	182 U	---	182	Filtered		ES
RD-92		Primary	03/25/04	Bismuth-212	364 U	---	364	Filtered		ES
RD-92		Primary	03/25/04	Bismuth-214	81.9 U	---	81.9	Filtered		ES
RD-92		Primary	03/25/04	Lead-212	66.4 U	---	66.4	Filtered		ES
RD-92		Primary	03/25/04	Lead-214	78.8 U	---	78.8	Filtered		ES
RD-92		Primary	03/25/04	Potassium-40	70.4	46	21.1	Filtered		ES
RD-92		Primary	03/25/04	Thallium-208	49.5 U	---	402	Filtered		ES
RD-92		Primary	03/25/04	Uranium-235	220 U	---	220	Filtered		ES
RD-92		Primary	04/15/04	Actinium-228	39.6 U	---	39.6	Filtered		ES
RD-92		Primary	04/15/04	Bismuth-212	75.7 U	---	75.7	Filtered		ES
RD-92		Primary	04/15/04	Bismuth-214	17 U	---	17	Filtered		ES
RD-92		Primary	04/15/04	Lead-210	637 U	---	637	Filtered		ES
RD-92		Primary	04/15/04	Lead-212	13.1 U	---	13.1	Filtered		ES
RD-92		Primary	04/15/04	Lead-214	21.5 U	---	21.5	Filtered		ES
RD-92		Primary	04/15/04	Potassium-40	169 U	---	169	Filtered		ES
RD-92		Primary	04/15/04	Radium-226	139 U	---	139	Filtered		ES
RD-92		Primary	04/15/04	Thallium-208	9.94 U	---	9.94	Filtered		ES
RD-92		Primary	04/15/04	Thorium-234	204 U	---	204	Filtered		ES
RD-92		Primary	04/15/04	Uranium-235	46.3 U	---	46.3	Filtered		ES
RD-93		Primary	05/23/05	Potassium-40	15 U	---	15	Filtered		ES
RD-93		Duplicate	05/23/05	Potassium-40	35.5 U	---	35.5	Filtered		ES
RD-93		Primary	06/01/05	Potassium-40	27.5 U	---	27.5	Filtered		ES
RD-93		Primary	08/24/05	Potassium-40	9.94 U	---	9.94	Filtered		ES
RD-94		Primary	05/23/05	Potassium-40	23.6 U	---	23.6	Filtered		ES
RD-94		Primary	06/01/05	Potassium-40	14.6 U	---	14.6	Filtered		ES
RD-94		Primary	08/25/05	Potassium-40	25.5 U	---	25.5	Filtered		ES
RD-95		Primary	05/23/05	Potassium-40	44 U	---	44	Filtered		ES
RD-95		Primary	06/01/05	Potassium-40	25 U	---	25	Filtered		ES
RD-95		Primary	08/24/05	Potassium-40	26.2 U	---	26.2	Filtered		ES
RD-96		Primary	05/09/06	Potassium-40	26.9 U	---	26.9	Unfiltered		ES
RD-96		Primary	05/09/06	Potassium-40	54.9 U	---	54.9	Filtered		ES
RD-97		Primary	05/09/06	Potassium-40	33.3 U	---	33.3	Unfiltered		ES
RD-97		Primary	05/09/06	Potassium-40	29.8 U	---	29.8	Filtered		ES
RD-98		Primary	06/26/08	Aluminum-26	0.893 U	---	0.893	Filtered		ES
RD-98		Primary	06/26/08	Potassium-40	28.6 U	---	28.6	Filtered		ES
RD-98		Primary	09/11/08	Aluminum-26	0.894 U	---	0.894	Filtered		ES
RD-98		Primary	09/11/08	Potassium-40	8.64 U	---	8.64	Filtered		ES
RD-98		Primary	11/14/08	Actinium-228	3.21 U	---	3.21	Filtered		ES
RD-98		Primary	11/14/08	Actinium-228	5.45 U	---	5.45	Unfiltered		ES
RD-98		Primary	11/14/08	Potassium-40	12.9 U	---	12.9	Filtered		ES
RD-98		Primary	11/14/08	Potassium-40	23.9 U	---	23.9	Unfiltered		ES
RD-98		Primary	11/14/08	Radium-228	3.21 U	---	3.21	Filtered		ES
RD-98		Primary	11/14/08	Radium-228	5.45 U	---	5.45	Unfiltered		ES

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Private Off-site Wells										
OS-01		Primary	02/23/94	Actinium-228	-20.9 U	6.8	32	Filtered		LAS
OS-01		Primary	02/23/94	Bismuth-214	19.8	6.3	15	Filtered		LAS
OS-01		Primary	02/23/94	Lead-212	2.4 U	9.1	13	Filtered		LAS
OS-01		Primary	02/23/94	Lead-214	2.6 U	4.9	14	Filtered		LAS
OS-01		Primary	02/23/94	Potassium-40	-26 U	62	110	Filtered		LAS
OS-01		Primary	02/23/94	Radium-226	0 U	97	140	Filtered		LAS
OS-01		Primary	02/23/94	Thallium-208	2.9 U	6.7	8.5	Filtered		LAS
OS-01		Primary	02/23/94	Thorium-234	13 U	28	120	Filtered		LAS
OS-01		Primary	02/23/94	Uranium-235	-9 U	12	37	Filtered		LAS
OS-01		Primary	08/15/94	Actinium-228	-20 U	110	170	Filtered		LAS
OS-01		Primary	08/15/94	Bismuth-214	-68 U	57	110	Filtered		LAS
OS-01		Primary	08/15/94	Lead-212	-24 U	55	79	Filtered		LAS
OS-01		Primary	08/15/94	Lead-214	60 U	63	94	Filtered		LAS
OS-01		Primary	08/15/94	Potassium-40	-20 U	420	680	Filtered		LAS
OS-01		Primary	08/15/94	Radium-226	-990 U	610	900	Filtered		LAS
OS-01		Primary	08/15/94	Thallium-208	-23 U	43	61	Filtered		LAS
OS-01		Primary	08/15/94	Thorium-234	-130 U	310	680	Filtered		LAS
OS-01		Primary	08/15/94	Uranium-235	30 U	140	200	Filtered		LAS
OS-02		Primary	02/23/94	Actinium-228	-1.7 U	9	32	Filtered		LAS
OS-02		Primary	02/23/94	Bismuth-214	32.6	7.2	17	Filtered		LAS
OS-02		Primary	02/23/94	Lead-212	9.2 U	9.3	12	Filtered		LAS
OS-02		Primary	02/23/94	Lead-214	12.3 U	5.2	15	Filtered		LAS
OS-02		Primary	02/23/94	Potassium-40	-15 U	58	97	Filtered		LAS
OS-02		Primary	02/23/94	Radium-226	-25 U	98	140	Filtered		LAS
OS-02		Primary	02/23/94	Thallium-208	2 U	6.9	8.9	Filtered		LAS
OS-02		Primary	02/23/94	Thorium-234	15 U	28	130	Filtered		LAS
OS-02		Primary	02/23/94	Uranium-235	-13 U	12	36	Filtered		LAS
OS-02		Primary	08/15/94	Actinium-228	52 U	80	140	Filtered		LAS
OS-02		Primary	08/15/94	Bismuth-214	24 U	55	81	Filtered		LAS
OS-02		Primary	08/15/94	Lead-212	-8 U	44	64	Filtered		LAS
OS-02		Primary	08/15/94	Lead-214	-17 U	44	74	Filtered		LAS
OS-02		Primary	08/15/94	Potassium-40	-140 U	300	500	Filtered		LAS
OS-02		Primary	08/15/94	Radium-226	-360 U	430	610	Filtered		LAS
OS-02		Primary	08/15/94	Thallium-208	-9 U	30	44	Filtered		LAS
OS-02		Primary	08/15/94	Thorium-234	120 U	270	690	Filtered		LAS
OS-02		Primary	08/15/94	Uranium-235	30 U	120	160	Filtered		LAS
OS-03		Primary	02/23/94	Actinium-228	5.3 U	9.4	29	Filtered		LAS
OS-03		Primary	02/23/94	Bismuth-214	22.9	6.2	14	Filtered		LAS
OS-03		Primary	02/23/94	Lead-212	36	11	12	Filtered		LAS
OS-03		Primary	02/23/94	Lead-214	10.3 U	4.8	12	Filtered		LAS
OS-03		Primary	02/23/94	Potassium-40	-15 U	62	97	Filtered		LAS
OS-03		Primary	02/23/94	Radium-226	-40 U	100	150	Filtered		LAS
OS-03		Primary	02/23/94	Thallium-208	6.9 U	7.8	10	Filtered		LAS
OS-03		Primary	02/23/94	Thorium-234	25 U	29	130	Filtered		LAS
OS-03		Primary	02/23/94	Uranium-235	0 U	12	36	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Private Off-site Wells										
OS-03		Primary	08/15/94	Actinium-228	36 U	83	150	Filtered		LAS
OS-03		Primary	08/15/94	Bismuth-214	5 U	55	82	Filtered		LAS
OS-03		Primary	08/15/94	Lead-212	12 U	42	60	Filtered		LAS
OS-03		Primary	08/15/94	Lead-214	0 U	44	72	Filtered		LAS
OS-03		Primary	08/15/94	Potassium-40	120 U	310	470	Filtered		LAS
OS-03		Primary	08/15/94	Radium-226	-60 U	440	610	Filtered		LAS
OS-03		Primary	08/15/94	Thallium-208	8 U	29	42	Filtered		LAS
OS-03		Primary	08/15/94	Thorium-234	-20 U	270	690	Filtered		LAS
OS-03		Primary	08/15/94	Uranium-235	0 U	110	160	Filtered		LAS
OS-04		Primary	02/23/94	Actinium-228	-3 U	9.4	33	Filtered		LAS
OS-04		Primary	02/23/94	Bismuth-214	-4 U	4.4	16	Filtered		LAS
OS-04		Primary	02/23/94	Lead-212	2.6 U	8.5	12	Filtered		LAS
OS-04		Primary	02/23/94	Lead-214	6.3 U	5.1	15	Filtered		LAS
OS-04		Primary	02/23/94	Potassium-40	-19 U	57	97	Filtered		LAS
OS-04		Primary	02/23/94	Radium-226	5 U	98	140	Filtered		LAS
OS-04		Primary	02/23/94	Thallium-208	4.8 U	6.4	7.7	Filtered		LAS
OS-04		Primary	02/23/94	Thorium-234	12 U	28	120	Filtered		LAS
OS-04		Primary	02/23/94	Uranium-235	-9 U	12	35	Filtered		LAS
OS-04		Primary	08/15/94	Actinium-228	0 U	130	220	Filtered		LAS
OS-04		Primary	08/15/94	Bismuth-214	-2 U	72	110	Filtered		LAS
OS-04		Primary	08/15/94	Lead-212	32 U	55	74	Filtered		LAS
OS-04		Primary	08/15/94	Lead-214	26 U	62	92	Filtered		LAS
OS-04		Primary	08/15/94	Potassium-40	190 U	360	520	Filtered		LAS
OS-04		Primary	08/15/94	Radium-226	300 U	630	900	Filtered		LAS
OS-04		Primary	08/15/94	Thallium-208	-30 U	20	66	Filtered		LAS
OS-04		Primary	08/15/94	Thorium-234	-180 U	310	700	Filtered		LAS
OS-04		Primary	08/15/94	Uranium-235	30 U	140	190	Filtered		LAS
OS-05		Primary	02/23/94	Actinium-228	0.4 U	9.3	30	Filtered		LAS
OS-05		Primary	02/23/94	Bismuth-214	138	12	17	Filtered		LAS
OS-05		Primary	02/23/94	Lead-212	42	12	14	Filtered		LAS
OS-05		Primary	02/23/94	Lead-214	71.5	7.4	15	Filtered		LAS
OS-05		Primary	02/23/94	Potassium-40	62 U	73	97	Filtered		LAS
OS-05		Primary	02/23/94	Radium-226	-30 U	110	160	Filtered		LAS
OS-05		Primary	02/23/94	Thallium-208	11.7	8.3	10	Filtered		LAS
OS-05		Primary	02/23/94	Thorium-234	40 U	30	130	Filtered		LAS
OS-05		Primary	02/23/94	Uranium-235	-8 U	13	40	Filtered		LAS
OS-08		Primary	08/15/94	Actinium-228	-22 U	80	150	Filtered		LAS
OS-08		Primary	08/15/94	Bismuth-214	13 U	55	83	Filtered		LAS
OS-08		Primary	08/15/94	Lead-212	18 U	42	59	Filtered		LAS
OS-08		Primary	08/15/94	Lead-214	-7 U	44	75	Filtered		LAS
OS-08		Primary	08/15/94	Potassium-40	50 U	310	480	Filtered		LAS
OS-08		Primary	08/15/94	Radium-226	-170 U	410	580	Filtered		LAS
OS-08		Primary	08/15/94	Thallium-208	13 U	30	42	Filtered		LAS
OS-08		Primary	08/15/94	Thorium-234	-90 U	270	690	Filtered		LAS
OS-08		Primary	08/15/94	Uranium-235	-30 U	49	150	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Private Off-site Wells										
OS-09R		Primary	01/26/04	Actinium-228	31.6 U	---	31.6	Filtered		ES
OS-09R		Primary	01/26/04	Bismuth-212	58.7 U	---	58.7	Filtered		ES
OS-09R		Primary	01/26/04	Bismuth-214	56.1	17	16.1	Filtered		ES
OS-09R		Primary	01/26/04	Lead-210	479 U	---	479	Filtered		ES
OS-09R		Primary	01/26/04	Lead-212	11 U	---	11	Filtered		ES
OS-09R		Primary	01/26/04	Lead-214	55.7	15	15.3	Filtered		ES
OS-09R		Primary	01/26/04	Potassium-40	91.1 U	---	91.1	Filtered		ES
OS-09R		Primary	01/26/04	Radium-226	108 U	---	108	Filtered		ES
OS-09R		Primary	01/26/04	Thallium-208	7.25 U	---	7.25	Filtered		ES
OS-09R		Primary	01/26/04	Thorium-234	207 U	---	207	Filtered		ES
OS-09R		Primary	01/26/04	Uranium-235	34.7 U	---	34.7	Filtered		ES
OS-10		Primary	08/05/94	Actinium-228	-63 U	77	200	Filtered		LAS
OS-10		Primary	08/05/94	Bismuth-214	-14 U	69	110	Filtered		LAS
OS-10		Primary	08/05/94	Lead-212	11 U	56	77	Filtered		LAS
OS-10		Primary	08/05/94	Lead-214	8 U	61	92	Filtered		LAS
OS-10		Primary	08/05/94	Potassium-40	390 U	360	460	Filtered		LAS
OS-10		Primary	08/05/94	Radium-226	-2720 U	690	900	Filtered		LAS
OS-10		Primary	08/05/94	Thallium-208	-32 U	19	66	Filtered		LAS
OS-10		Primary	08/05/94	Thorium-234	60 U	330	700	Filtered		LAS
OS-10		Primary	08/05/94	Uranium-235	80 U	140	200	Filtered		LAS
OS-27		Primary	05/15/97	Actinium-228	0 U	12	22	Filtered		LAS
OS-27		Primary	05/15/97	Bismuth-214	303	35	13	Filtered		LAS
OS-27		Primary	05/15/97	Lead-212	2.2 U	7.2	11	Filtered		LAS
OS-27		Primary	05/15/97	Lead-214	362	31	13	Filtered		LAS
OS-27		Primary	05/15/97	Potassium-40	5 U	38	62	Filtered		LAS
OS-27		Primary	05/15/97	Thallium-208	-0.4 U	3.8	5.9	Filtered		LAS
OS-27		Primary	05/15/97	Thorium-234	24 U	73	290	Filtered		LAS
OS-27		Primary	05/15/97	Uranium-235	-13 U	22	41	Filtered		LAS
Municipal Water Supply										
Facility Water		Primary	08/10/04	Actinium-228	31.1 U	---	31.1	Unfiltered		ES
Facility Water		Primary	08/10/04	Bismuth-212	57.8 U	---	57.8	Unfiltered		ES
Facility Water		Primary	08/10/04	Bismuth-214	13.4 U	---	13.4	Unfiltered		ES
Facility Water		Primary	08/10/04	Lead-210	457 U	---	457	Unfiltered		ES
Facility Water		Primary	08/10/04	Lead-212	11.5 U	---	11.5	Unfiltered		ES
Facility Water		Primary	08/10/04	Lead-214	12.5 U	---	12.5	Unfiltered		ES
Facility Water		Primary	08/10/04	Potassium-40	76.9 U	---	76.9	Unfiltered		ES
Facility Water		Primary	08/10/04	Radium-226	109 U	---	109	Unfiltered		ES
Facility Water		Primary	08/10/04	Thallium-208	7.04 U	---	7.04	Unfiltered		ES
Facility Water		Primary	08/10/04	Thorium-234	188 U	---	188	Unfiltered		ES
Facility Water		Primary	08/10/04	Uranium-235	34.9 U	---	34.9	Unfiltered		ES
Facility Fire Hydrant										
Hydrant Water		Primary	03/16/04	Actinium-228	37.7 U	---	37.7	Unfiltered		ES
Hydrant Water		Primary	03/16/04	Bismuth-212	67.1 U	---	67.1	Unfiltered		ES
Hydrant Water		Primary	03/16/04	Bismuth-214	16.4 U	---	16.4	Unfiltered		ES

See last page of table for notes and abbreviations.

TABLE E-IV

RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Facility Fire Hydrant										
Hydrant Water		Primary	03/16/04	Lead-210	1800 U	---	1800	Unfiltered		ES
Hydrant Water		Primary	03/16/04	Lead-212	12.2 U	---	12.2	Unfiltered		ES
Hydrant Water		Primary	03/16/04	Lead-214	14.7 U	---	14.7	Unfiltered		ES
Hydrant Water		Primary	03/16/04	Potassium-40	178 U	---	178	Unfiltered		ES
Hydrant Water		Primary	03/16/04	Radium-226	128 U	---	128	Unfiltered		ES
Hydrant Water		Primary	03/16/04	Thallium-208	8.48 U	---	8.48	Unfiltered		ES
Hydrant Water		Primary	03/16/04	Thorium-234	256 U	---	256	Unfiltered		ES
Hydrant Water		Primary	03/16/04	Uranium-235	47.9 U	---	47.9	Unfiltered		ES

TABLE E-IV
RESULTS OF ANALYSES FOR NATURALLY OCCURRING GAMMA-EMITTING RADIONUCLIDES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

NOTES AND ABBREVIATIONS

DL = Davi Laboratories, Pinole, California
ES = Eberline Services, (formerly Thermo Retec), Richmond, California
LAS = LAS Laboratories, (formerly Lockheed Martin), Las Vegas, Nevada
STL = Severn Trent Laboratories, (formerly International Technologies, Inc.), Richland, Washington
TN = Thermo NUtech, (formerly Thermoanalytical Inc. (TMA/NORCAL)), Richmond, California
TR = Thermo Retec, (formerly Thermo NUtech), Richmond, California

MDA	=	Minimum detectable activity.
Z	=	Flute port number.
---	=	Data do not exist.
J	=	Result is less than contract-required MDA and greater than or equal to the MDA.
U	=	Not detected above the MDA; numerical value is the activity for the radionuclide.
pCi/L	=	picoCuries per liter.

NOTES:
Radium-226, radium-228, and uranium-235 analyzed by EPA method 901.1 for gamma-emitting radionuclides or an equivalent or superior in-house laboratory procedure are included in this table. Results of radium-226, radium-228, and uranium-235 analyzed by EPA methods 903.1, 904.0, and 908.0 are included in Table E-V. Laboratories used the most current promulgated version of each EPA method at the time of analysis.

Naturally occurring gamma-emitting radionuclides analyzed by EPA method 901.1 or equivalent or superior in-house laboratory procedures include actinium-228, aluminum-26, bismuth-212, bismuth-214, lead-210, lead-212, lead-214, potassium-40, radium-226, radium-228, thallium-208, thorium-234, and uranium-235.

Any activity detected is reported by the laboratory, though the reported activity may be less than the overall laboratory error. Analytical results that are less than the instrument background count are shown as negative values.

As discussed in Appendix D, project specific MDAs were not always attained due in part to matrix conditions (e.g., dissolved and suspended solids) and limitations in the prescribed analytical methods (e.g., sample volumes, counting times).

Filtered samples were collected using a 0.45 micron filter in the field.

TABLE E-V

RESULTS OF ANALYSES FOR SPECIFIC ISOTOPES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Shallow Wells										
ES-31		Primary	03/10/05	Radium-226	-0.165 U	0.24	0.503	Filtered		ES
ES-31		Primary	03/10/05	Radium-228	0.054 U	0.19	0.527	Filtered		ES
ES-31		Primary	12/07/05	Radium-226	-0.135 U	0.34	0.673	Filtered		ES
ES-31		Split	12/07/05	Radium-226	0.181 U	0.126	0.181	Filtered		STL
ES-31		Primary	12/07/05	Radium-228	0.298 U	0.19	0.5	Filtered		ES
ES-31		Split	12/07/05	Radium-228	0.428 U	0.361	0.77	Filtered		STL
ES-31		Primary	02/21/06	Radium-226	0.042 U	0.44	0.836	Filtered		ES
ES-31		Primary	02/21/06	Radium-228	0.136 U	0.17	0.475	Filtered		ES
ES-31		Primary	08/15/06	Radium-226	0.14 U	0.43	0.875	Filtered		ES
ES-31		Primary	08/15/06	Radium-228	0.115 U	0.17	0.472	Filtered		ES
ES-31		Primary	02/28/07	Radium-226	0.145 U	0.34	0.6	Filtered		ES
ES-31		Primary	02/28/07	Radium-228	0.197 U	0.16	0.407	Filtered		ES
ES-31		Primary	08/16/07	Radium-226	0.097 U	0.32	0.608	Filtered		ES
ES-31		Primary	08/16/07	Radium-228	0.047 U	0.13	0.361	Filtered		ES
ES-31		Primary	02/01/08	Radium-226	0.17 U	0.4	0.715	Filtered		ES
ES-31		Primary	02/01/08	Radium-228	-0.032 U	0.17	0.405	Filtered		ES
ES-31		Primary	02/01/08	Strontium-90	-0.011 U	0.26	0.504	Filtered		ES
ES-31		Primary	08/19/08	Radium-226	-0.02 U	0.36	0.705	Filtered		ES
ES-31		Primary	08/19/08	Radium-228	0.45 U	0.24	0.593	Filtered		ES
HAR-14		Primary	03/16/93	Radium-226	0.6 U	---	0.6	Filtered		CEP
HAR-14		Primary	03/16/93	Radium-228	1 U	---	1	Filtered		CEP
HAR-14		Primary	06/08/93	Radium-226	2.7	1	0.6	Filtered		CEP
HAR-14		Primary	08/09/93	Radium-226	0.6 U	---	0.6	Filtered		CEP
HAR-14		Primary	11/04/93	Radium-226	0.16 U	0.15	0.24	Filtered		CEP
HAR-15		Primary	03/16/93	Radium-226	0.6 U	---	0.6	Filtered		CEP
HAR-15		Primary	03/16/93	Radium-226	29.5	4.2	0.6	Filtered	Correspondence suggests that sample may be unfiltered.	CEP
HAR-15		Reanalysis of Primary	03/16/93	Radium-226	0.6 U	---	0.6	Filtered		CEP
HAR-15		Primary	03/16/93	Radium-228	1 U	---	1	Filtered	Correspondence suggests that sample may be unfiltered.	CEP
HAR-15		Reanalysis of Primary	03/16/93	Radium-228	1 U	---	1	Filtered		CEP
HAR-15		Primary	03/16/93	Uranium-233/234	6.9	3	0.6	Filtered		CEP
HAR-15		Primary	03/16/93	Uranium-235	0.51 U	0.2	0.6	Filtered		CEP
HAR-15		Primary	03/16/93	Uranium-238	15.9	5.8	0.6	Filtered		CEP
HAR-15		Primary	06/08/93	Radium-226	0.6 U	---	0.6	Filtered		CEP
HAR-15		Primary	06/08/93	Radium-226	24.9	4.3	0.6	Filtered	Correspondence suggests that sample may be unfiltered.	CEP
HAR-15		Reanalysis of Primary	06/08/93	Radium-226	0.6 U	---	0.6	Filtered		CEP
HAR-15		Primary	06/08/93	Radium-228	2	1	1	Filtered		CEP
HAR-15		Primary	08/09/93	Radium-226	0.6 U	---	0.6	Filtered		CEP
HAR-15		Primary	11/04/93	Radium-226	1.18	0.28	0.048	Filtered		CEP

See last page of table for notes and abbreviations.

TABLE E-V
RESULTS OF ANALYSES FOR SPECIFIC ISOTOPES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Shallow Wells										
HAR-15		Primary	11/04/93	Uranium-233/234	0.841	0.39	0.2	Filtered		LAS
HAR-15		Primary	11/04/93	Uranium-235	0.08 U	0.12	0.11	Filtered		LAS
HAR-15		Primary	11/04/93	Uranium-238	0.88	0.39	0.15	Filtered		LAS
RS-05		Primary	10/31/89	Radium-226	-0.0035 U	0.046	---	Filtered		UST
RS-05		Primary	10/31/89	Radium-226	0.359	0.124	---	Unfiltered		UST
RS-05		Primary	10/31/89	Radium-228	1.16	0.487	---	Filtered		UST
RS-05		Primary	10/31/89	Radium-228	2.19	0.657	---	Unfiltered		UST
RS-05		Primary	10/31/89	Thorium-228	0.0345 U	0.035	---	Filtered		UST
RS-05		Primary	10/31/89	Thorium-228	1.2	0.463	---	Unfiltered		UST
RS-05		Primary	10/31/89	Thorium-230	0.00827 U	0.012	---	Filtered		UST
RS-05		Primary	10/31/89	Thorium-230	0.917	0.309	---	Unfiltered		UST
RS-05		Primary	10/31/89	Thorium-232	0.0393	0.020	---	Filtered		UST
RS-05		Primary	10/31/89	Thorium-232	1.68	0.44	---	Unfiltered		UST
RS-05		Primary	10/31/89	Uranium-233/234	5.81	0.83	---	Filtered		UST
RS-05		Primary	10/31/89	Uranium-233/234	5.73	0.988	---	Unfiltered		UST
RS-05		Primary	10/31/89	Uranium-235	0.0883	0.082	---	Filtered		UST
RS-05		Primary	10/31/89	Uranium-235	0.241	0.202	---	Unfiltered		UST
RS-05		Primary	10/31/89	Uranium-238	5.04	0.741	---	Filtered		UST
RS-05		Primary	10/31/89	Uranium-238	5.83	0.991	---	Unfiltered		UST
RS-08		Primary	03/18/93	Radium-226	3	2.3	0.6	Filtered		CEP
RS-08		Primary	03/18/93	Radium-228	1 U	---	1	Filtered		CEP
RS-08		Primary	06/08/93	Radium-226	2.4	1	0.6	Filtered		CEP
RS-08		Primary	08/09/93	Radium-226	0.6 U	---	0.6	Filtered		CEP
RS-08		Primary	11/08/93	Radium-226	0.09 U	0.13	0.22	Filtered		CEP
RS-08		Primary	11/08/93	Uranium-233/234	15.01	2	0.16	Filtered		LAS
RS-08		Primary	11/08/93	Uranium-235	0.62	0.32	0.11	Filtered		LAS
RS-08		Primary	11/08/93	Uranium-238	14.6	1.9	0.18	Filtered		LAS
RS-11		Primary	02/17/05	Radium-226	0.228 U	0.4	0.69	Filtered		ES
RS-11		Primary	02/17/05	Radium-228	0.165 U	0.21	0.568	Filtered		ES
RS-11		Primary	02/17/05	Uranium-233/234	20	1.2	0.083	Filtered		ES
RS-11		Primary	02/17/05	Uranium-235	0.9 J	0.13	0.027	Filtered		ES
RS-11		Primary	02/17/05	Uranium-238	17.9	1.1	0.078	Filtered		ES
RS-11		Primary	08/29/05	Radium-226	0.492 U	0.36	0.515	Filtered		ES
RS-11		Primary	08/29/05	Radium-228	0.682 J	0.25	0.611	Filtered		ES
RS-11		Primary	02/21/06	Radium-226	0.024 U	0.45	0.841	Filtered		ES
RS-11		Primary	02/21/06	Radium-228	0.33 U	0.23	0.581	Filtered		ES
RS-11		Primary	08/10/06	Radium-226	0.084 U	0.45	0.836	Filtered		ES
RS-11		Primary	08/10/06	Radium-228	0.065 U	0.19	0.494	Filtered		ES
RS-11		Primary	02/28/07	Radium-226	0.344 U	0.3	0.46	Filtered		ES
RS-11		Primary	02/28/07	Radium-228	-0.104 U	0.28	0.491	Filtered		ES
RS-11		Primary	05/02/08	Americium-241	7.57 U	---	7.57	Filtered		ES
RS-11		Primary	05/02/08	Radium-226	0.129 U	0.32	0.583	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-V
RESULTS OF ANALYSES FOR SPECIFIC ISOTOPES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Shallow Wells										
RS-11		Primary	05/02/08	Radium-228	-0.004 U	0.34	0.362	Filtered		ES
RS-11		Primary	05/02/08	Strontium-90	-0.214 U	0.24	0.517	Filtered		ES
RS-16		Primary	02/23/05	Radium-226	0.227 U	0.41	0.696	Filtered		ES
RS-16		Primary	02/23/05	Radium-228	0.167 U	0.26	0.618	Filtered		ES
RS-16		Primary	02/01/08	Radium-226	0.486 U	0.43	0.638	Filtered		ES
RS-16		Primary	02/01/08	Radium-228	0.219 U	0.01	0.424	Filtered		ES
RS-16		Primary	02/01/08	Strontium-90	0.142 U	0.29	0.522	Filtered		ES
RS-18		Primary	03/04/92	Uranium-233/234	2.75	0.62	0.6	Unfiltered		CEP
RS-18		Primary	03/04/92	Uranium-235	0.6 U	---	0.6	Unfiltered		CEP
RS-18		Primary	03/04/92	Uranium-238	3.6	0.7	0.6	Unfiltered		CEP
RS-18		Primary	09/10/92	Radium-226	3.5	2	0.6	Filtered		CEP
RS-18		Primary	09/10/92	Radium-228	1 U	---	1	Filtered		CEP
RS-18		Primary	09/10/92	Uranium-233/234	36.6	6	0.6	Unfiltered		CEP
RS-18		Primary	09/10/92	Uranium-235	1.8	0.9	0.6	Unfiltered		CEP
RS-18		Primary	09/10/92	Uranium-238	41.9	6.6	0.6	Unfiltered		CEP
RS-18		Primary	12/15/92	Thorium-228	0.6 U	---	0.6	Filtered		CEP
RS-18		Primary	12/15/92	Thorium-230	0.6 U	---	0.6	Filtered		CEP
RS-18		Primary	12/15/92	Thorium-232	0.6 U	---	0.6	Filtered		CEP
RS-18		Primary	12/15/92	Uranium-233/234	5.17	0.69	0.6	Unfiltered		CEP
RS-18		Primary	12/15/92	Uranium-235	0.6 U	---	0.6	Unfiltered		CEP
RS-18		Primary	12/15/92	Uranium-238	5.67	0.77	0.6	Unfiltered		CEP
RS-18		Primary	06/23/93	Uranium-233/234	1.8	3	0.6	Filtered		CEP
RS-18		Primary	06/23/93	Uranium-235	0.1 U	0.1	0.6	Filtered		CEP
RS-18		Primary	06/23/93	Uranium-236	2.1	0.4	0.6	Filtered		CEP
RS-18		Primary	11/06/93	Americium-241	16.2 U	---	16.2	Filtered		LAS
RS-18		Primary	11/06/93	Radium-226	25.9 U	---	25.9	Filtered		LAS
RS-18		Primary	11/06/93	Thorium-228	0.2 U	0.27	0.29	Filtered		LAS
RS-18		Primary	11/06/93	Thorium-230	0.53	0.3	0.14	Filtered		LAS
RS-18		Primary	11/06/93	Thorium-232	0.19	0.18	0.17	Filtered		LAS
RS-18		Primary	11/06/93	Uranium-233/234	16.3	2.2	0.21	Filtered		LAS
RS-18		Primary	11/06/93	Uranium-235	0.42	0.27	0.13	Filtered		LAS
RS-18		Primary	11/06/93	Uranium-238	14.6	2	0.2	Filtered		LAS
RS-18		Primary	05/04/94	Radium-226	50 U	110	140	Filtered		LAS
RS-18		Primary	05/04/94	Thorium-228	-0.014 U	0.058	0.11	Filtered		LAS
RS-18		Primary	05/04/94	Thorium-230	0.103	0.058	0.086	Filtered		LAS
RS-18		Primary	05/04/94	Thorium-232	0.056	0.025	0.0075	Filtered		LAS
RS-18		Primary	05/04/94	Uranium-233/234	19.9	1.8	0.13	Filtered		LAS
RS-18		Primary	05/04/94	Uranium-235	0.9	0.33	0.084	Filtered		LAS
RS-18		Primary	05/04/94	Uranium-235	-1 U	25	31	Filtered		LAS
RS-18		Primary	05/04/94	Uranium-238	19.2	1.8	0.13	Filtered		LAS
RS-18		Primary	02/17/95	Thorium-228	-0.05 U	0.18	0.26	Filtered		LAS
RS-18		Primary	02/17/95	Thorium-230	0.24	0.16	0.12	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-V

RESULTS OF ANALYSES FOR SPECIFIC ISOTOPES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Shallow Wells										
RS-18		Primary	02/17/95	Thorium-232	0.057 U	0.079	0.099	Filtered		LAS
RS-18		Primary	02/17/95	Uranium-233/234	8.98	0.96	0.12	Filtered		LAS
RS-18		Primary	02/17/95	Uranium-235	-17 U	29	43	Filtered		LAS
RS-18		Primary	02/17/95	Uranium-235	0.49	0.21	0.12	Filtered		LAS
RS-18		Primary	02/17/95	Uranium-238	7.67	0.87	0.11	Filtered		LAS
RS-18		Primary	08/10/95	Thorium-228	-0.05 U	0.28	0.4	Filtered		LAS
RS-18		Primary	08/10/95	Thorium-230	-0.022 U	0.076	0.16	Filtered		LAS
RS-18		Primary	08/10/95	Thorium-232	0.037 U	0.095	0.15	Filtered		LAS
RS-18		Primary	08/10/95	Uranium-233/234	15	0.92	0.071	Filtered		LAS
RS-18		Primary	08/10/95	Uranium-235	0.78	0.13	0.06	Filtered		LAS
RS-18		Primary	08/10/95	Uranium-235	7 U	27	40	Filtered		LAS
RS-18		Primary	08/10/95	Uranium-238	15.19	0.93	0.076	Filtered		LAS
RS-18		Primary	05/16/96	Thorium-228	-0.07 U	0.17	0.26	Filtered		LAS
RS-18		Primary	05/16/96	Thorium-230	-0.027 U	0.048	0.11	Filtered		LAS
RS-18		Primary	05/16/96	Thorium-232	0.013 U	0.07	0.12	Filtered		LAS
RS-18		Primary	05/16/96	Uranium-233/234	11.5	1.1	0.13	Filtered		LAS
RS-18		Primary	05/16/96	Uranium-235	0.89	0.28	0.12	Filtered		LAS
RS-18		Primary	05/16/96	Uranium-238	10.8	1.1	0.13	Filtered		LAS
RS-18		Primary	02/03/97	Thorium-228	0.1 U	0.17	0.22	Filtered		LAS
RS-18		Primary	02/03/97	Thorium-230	0.009 U	0.043	0.082	Filtered		LAS
RS-18		Primary	02/03/97	Thorium-232	-0.009 U	0.034	0.087	Filtered		LAS
RS-18		Primary	02/03/97	Uranium-233/234	14.2	1.3	0.13	Filtered		LAS
RS-18		Primary	02/03/97	Uranium-235	14 U	74	100	Filtered		LAS
RS-18		Primary	02/03/97	Uranium-235	0.53	0.21	0.056	Filtered		LAS
RS-18		Primary	02/03/97	Uranium-238	13.9	1.3	0.12	Filtered		LAS
RS-18		Primary	02/05/98	Radium-226	66.2 U	---	66.2	Filtered		TN
RS-18		Primary	02/05/98	Thorium-228	-0.009 U	0.023	0.048	Filtered		TN
RS-18		Primary	02/05/98	Thorium-230	0.138 U	---	0.138	Filtered		TN
RS-18		Primary	02/05/98	Thorium-232	0 U	0.012	0.022	Filtered		TN
RS-18		Primary	02/05/98	Uranium-233/234	14.2	0.94	0.126	Filtered		TN
RS-18		Primary	02/05/98	Uranium-235	0.943	0.17	0.055	Filtered		TN
RS-18		Primary	02/05/98	Uranium-235	20.7 U	---	20.7	Filtered		TN
RS-18		Primary	02/05/98	Uranium-238	12.9	0.88	0.122	Filtered		TN
RS-18		Primary	08/05/98	Radium-226	359 U	---	359	Filtered		TN
RS-18		Primary	08/05/98	Thorium-228	0.014 U	0.019	0.036	Filtered		TN
RS-18		Primary	08/05/98	Thorium-230	0.08 U	---	0.08	Filtered		TN
RS-18		Primary	08/05/98	Thorium-232	0.005 U	0.019	0.036	Filtered		TN
RS-18		Primary	08/05/98	Uranium-233/234	13.7	0.72	0.091	Filtered		TN
RS-18		Primary	08/05/98	Uranium-235	134 U	---	134	Filtered		TN
RS-18		Primary	08/05/98	Uranium-235	0.793	0.13	0.036	Filtered		TN
RS-18		Primary	08/05/98	Uranium-238	13.3	0.71	0.087	Filtered		TN
RS-18		Primary	05/09/00	Thorium-228	0.166 U	---	0.166	Filtered		TR

TABLE E-V

RESULTS OF ANALYSES FOR SPECIFIC ISOTOPES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Shallow Wells										
RS-18		Primary	05/09/00	Thorium-230	0.219 U	---	0.219	Filtered		TR
RS-18		Primary	05/09/00	Thorium-232	0.037 U	0.05	0.095	Filtered		TR
RS-18		Primary	05/09/00	Uranium-233/234	15.1	0.97	0.168	Filtered		TR
RS-18		Primary	05/09/00	Uranium-235	0.795	0.19	0.088	Filtered		TR
RS-18		Primary	05/09/00	Uranium-238	13.2	0.89	0.154	Filtered		TR
RS-18		Primary	02/19/01	Thorium-228	0.04 U	0.081	0.157	Filtered		ES
RS-18		Primary	02/19/01	Thorium-230	0 U	0.069	0.106	Filtered		ES
RS-18		Primary	02/19/01	Thorium-232	0 U	0.035	0.071	Filtered		ES
RS-18		Primary	02/19/01	Uranium-233/234	8.4	0.38	0.052	Filtered		ES
RS-18		Primary	02/19/01	Uranium-235	0.442	0.072	0.021	Filtered		ES
RS-18		Primary	02/19/01	Uranium-238	7.89	0.36	0.048	Filtered		ES
RS-18		Primary	05/02/03	Thorium-228	-0.009 U	0.037	0.074	Filtered		ES
RS-18		Primary	05/02/03	Thorium-230	0.018 U	0.046	0.104	Filtered		ES
RS-18		Primary	05/02/03	Thorium-232	0.005 U	0.009	0.035	Filtered		ES
RS-18		Primary	05/02/03	Uranium-233/234	20.3	1.2	0.076	Filtered		ES
RS-18		Primary	05/02/03	Uranium-235	1.05	0.12	0.021	Filtered		ES
RS-18		Primary	05/02/03	Uranium-238	19.3	1.1	0.073	Filtered		ES
RS-18		Primary	02/23/05	Radium-226	0.232 U	0.2	0.296	Filtered		ES
RS-18		Primary	02/23/05	Radium-228	0.054 U	0.2	0.538	Filtered		ES
RS-18		Primary	02/23/05	Thorium-228	-0.007 U	0.022	0.04	Filtered		ES
RS-18		Primary	02/23/05	Thorium-230	0.083 U	0.065	0.096	Filtered		ES
RS-18		Primary	02/23/05	Thorium-232	0 U	0.014	0.034	Filtered		ES
RS-18		Primary	02/23/05	Uranium-233/234	9.85	0.69	0.074	Filtered		ES
RS-18		Primary	02/23/05	Uranium-235	0.467 J	0.098	0.036	Filtered		ES
RS-18		Primary	02/23/05	Uranium-238	9.43	0.67	0.069	Filtered		ES
RS-18		Primary	08/26/05	Radium-226	0.544 U	0.44	0.676	Filtered		ES
RS-18		Primary	08/26/05	Radium-228	0.278 U	0.21	0.57	Filtered		ES
RS-18		Primary	08/26/05	Thorium-228	0.012 U	0.025	0.034	Filtered		ES
RS-18		Primary	08/26/05	Thorium-230	0.028 U	0.055	0.096	Filtered		ES
RS-18		Primary	08/26/05	Thorium-232	-0.006 U	0.006	0.023	Filtered		ES
RS-18		Primary	08/26/05	Uranium-233/234	7.1	0.5	0.052	Filtered		ES
RS-18		Primary	08/26/05	Uranium-235	0.307 J	0.07	0.029	Filtered		ES
RS-18		Primary	08/26/05	Uranium-238	6.52	0.46	0.05	Filtered		ES
RS-18		Primary	02/20/06	Radium-226	0.425 U	0.42	0.662	Filtered		ES
RS-18		Primary	02/20/06	Radium-228	0.585 J	0.19	0.468	Filtered		ES
RS-18		Primary	02/20/06	Thorium-228	-0.002 U	0.03	0.055	Filtered		ES
RS-18		Primary	02/20/06	Thorium-230	0.012 U	0.049	0.101	Filtered		ES
RS-18		Primary	02/20/06	Thorium-232	-0.01 U	0.015	0.036	Filtered		ES
RS-18		Primary	02/20/06	Uranium-233/234	6.32	0.46	0.052	Filtered		ES
RS-18		Primary	02/20/06	Uranium-235	0.27 J	0.068	0.028	Filtered		ES
RS-18		Primary	02/20/06	Uranium-238	6.03	0.44	0.047	Filtered		ES
RS-18		Primary	02/04/08	Radium-226	-0.075 U	0.35	0.721	Filtered		ES

TABLE E-V
RESULTS OF ANALYSES FOR SPECIFIC ISOTOPES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Shallow Wells										
RS-18		Primary	02/04/08	Radium-228	0.091 U	0.15	0.501	Filtered		ES
RS-18		Primary	02/04/08	Strontium-90	0.029 U	0.37	0.623	Filtered		ES
RS-18		Primary	02/04/08	Thorium-228	0.012 U	0.036	0.057	Filtered		ES
RS-18		Primary	02/04/08	Thorium-230	-0.033 U	0.054	0.11	Filtered		ES
RS-18		Primary	02/04/08	Thorium-232	-0.006 U	0.018	0.04	Filtered		ES
RS-18		Primary	02/04/08	Uranium-234	4.33	0.32	0.05	Filtered		ES
RS-18		Primary	02/04/08	Uranium-235	0.174 J	0.05	0.038	Filtered		ES
RS-18		Primary	02/04/08	Uranium-238	3.75	0.29	0.041	Filtered		ES
RS-25		Primary	02/25/03	Uranium-233/234	1.98	0.16	0.038	Filtered		ES
RS-25		Primary	02/25/03	Uranium-235	0.09	0.035	0.026	Filtered		ES
RS-25		Primary	02/25/03	Uranium-238	2.02	0.16	0.035	Filtered		ES
RS-25		Primary	02/13/08	Radium-226	0.373 U	0.44	0.717	Filtered		ES
RS-25		Primary	02/13/08	Radium-228	0.941 J	0.31	0.418	Filtered		ES
RS-25		Primary	02/13/08	Strontium-90	-0.087 U	0.2	0.359	Filtered		ES
RS-25		Primary	02/13/08	Uranium-234	3.04	0.39	0.074	Filtered		ES
RS-25		Primary	02/13/08	Uranium-235	0.108 J	0.059	0.069	Filtered		ES
RS-25		Primary	02/13/08	Uranium-238	2.74	0.36	0.066	Filtered		ES
RS-28		Primary	11/01/89	Radium-226	0.0296 U	0.06	---	Filtered		UST
RS-28		Primary	11/01/89	Radium-226	0.105	0.085	---	Unfiltered		UST
RS-28		Primary	11/01/89	Radium-228	0.686	0.54	---	Filtered		UST
RS-28		Primary	11/01/89	Radium-228	0.726	0.669	---	Unfiltered		UST
RS-28		Primary	11/01/89	Thorium-228	0.0222 U	0.028	---	Filtered		UST
RS-28		Primary	11/01/89	Thorium-228	0.586	0.093	---	Unfiltered		UST
RS-28		Primary	11/01/89	Thorium-230	0.0058 U	0.010	---	Filtered		UST
RS-28		Primary	11/01/89	Thorium-230	0.147	0.038	---	Unfiltered		UST
RS-28		Primary	11/01/89	Thorium-232	0.00193 U	0.004	---	Filtered		UST
RS-28		Primary	11/01/89	Thorium-232	0.662	0.096	---	Unfiltered		UST
RS-28		Primary	11/01/89	Uranium-233/234	4.59	0.181	---	Filtered		UST
RS-28		Primary	11/01/89	Uranium-235	0.153	0.014	---	Filtered		UST
RS-28		Primary	11/01/89	Uranium-238	4.24	0.147	---	Filtered		UST
RS-28		Primary	11/06/93	Americium-241	10.4 U	---	10.4	Filtered		LAS
RS-28		Primary	11/06/93	Radium-226	63.7 U	---	63.7	Filtered		LAS
RS-28		Primary	05/07/94	Radium-226	-110 U	110	150	Filtered		LAS
RS-28		Primary	05/07/94	Uranium-235	3 U	26	38	Filtered		LAS
RS-28		Primary	05/17/95	Uranium-235	-6 U	32	47	Filtered		LAS
RS-28		Primary	05/08/98	Radium-226	182 U	---	182	Filtered		TN
RS-28		Primary	05/08/98	Uranium-235	77.2 U	---	77.2	Filtered		TN
RS-28		Primary	11/16/98	Radium-226	127 U	---	127	Filtered		TN
RS-28		Primary	11/16/98	Uranium-235	34.4 U	---	34.4	Filtered		TN
RS-28		Primary	05/20/05	Radium-226	0.645 U	0.44	0.67	Filtered		ES
RS-28		Primary	05/20/05	Radium-228	0.518 J	0.22	0.478	Filtered		ES
RS-28		Primary	08/30/05	Radium-226	0.29 U	0.36	0.597	Filtered		ES
RS-28		Primary	08/30/05	Radium-228	0.187 U	0.27	0.679	Filtered		ES
RS-28		Primary	02/17/06	Radium-226	-0.06 U	0.4	0.758	Filtered		ES
RS-28		Primary	02/17/06	Radium-228	-0.059 U	0.49	0.531	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-V
RESULTS OF ANALYSES FOR SPECIFIC ISOTOPES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Shallow Wells										
RS-28		Primary	08/11/06	Radium-226	0.251 U	0.4	0.695	Filtered		ES
RS-28		Primary	08/11/06	Radium-228	1.03	0.21	0.458	Filtered		ES
RS-28		Primary	02/13/07	Radium-226	0.723 J	0.47	0.707	Filtered		ES
RS-28		Primary	02/13/07	Radium-228	0.549 J	0.14	0.339	Filtered		ES
RS-28		Primary	11/05/07	Radium-226	0.479 U	0.54	0.88	Filtered		ES
RS-28		Primary	11/05/07	Radium-228	0.303 U	0.28	0.388	Filtered		ES
RS-28		Primary	02/06/08	Radium-226	0.786 J	0.54	0.76	Filtered		ES
RS-28		Primary	02/06/08	Radium-228	0.384 U	0.16	0.399	Filtered		ES
RS-28		Primary	02/06/08	Strontium-90	0.044 U	0.23	0.451	Filtered		ES
RS-28		Primary	08/19/08	Radium-226	-0.032 U	0.3	0.606	Filtered		ES
RS-28		Primary	08/19/08	Radium-228	0.425 U	0.21	0.538	Filtered		ES
RS-54		Primary	05/07/94	Radium-226	-100 U	110	160	Filtered		LAS
RS-54		Primary	05/07/94	Uranium-233/234	26.4	2.4	0.15	Filtered		LAS
RS-54		Primary	05/07/94	Uranium-235	-3 U	25	37	Filtered		LAS
RS-54		Primary	05/07/94	Uranium-235	2.15	0.59	0.17	Filtered		LAS
RS-54		Primary	05/07/94	Uranium-238	26.5	2.4	0.11	Filtered		LAS
RS-54		Primary	08/03/95	Uranium-235	-20 U	22	40	Filtered		LAS
RS-54		Primary	08/23/96	Uranium-235	-6 U	29	45	Filtered		LAS
RS-54		Primary	05/03/97	Uranium-235	-10 U	31	45	Filtered		LAS
RS-54		Primary	08/02/97	Radium-226	0 U	130	210	Filtered		LAS
RS-54		Primary	08/02/97	Uranium-235	24 U	32	47	Filtered		LAS
RS-54		Primary	08/03/97	Uranium-233/234	16.4	1.2	0.16	Filtered		LAS
RS-54		Primary	08/03/97	Uranium-235	0.69	0.19	0.068	Filtered		LAS
RS-54		Primary	08/03/97	Uranium-238	14.8	1.2	0.11	Filtered		LAS
RS-54		Primary	08/27/97	Radium-226	-19 U	70	110	Filtered		LAS
RS-54		Primary	08/27/97	Radium-226	-13 U	73	110	Unfiltered		LAS
RS-54		Primary	08/27/97	Uranium-233/234	15.9	1.2	0.11	Filtered		LAS
RS-54		Primary	08/27/97	Uranium-233/234	16.6	1.2	0.11	Unfiltered		LAS
RS-54		Primary	08/27/97	Uranium-235	0.84	0.19	0.031	Filtered		LAS
RS-54		Primary	08/27/97	Uranium-235	10 U	20	31	Filtered		LAS
RS-54		Primary	08/27/97	Uranium-235	0.75	0.2	0.062	Unfiltered		LAS
RS-54		Primary	08/27/97	Uranium-235	9 U	20	29	Unfiltered		LAS
RS-54		Primary	08/27/97	Uranium-238	14.5	1.1	0.088	Filtered		LAS
RS-54		Primary	08/27/97	Uranium-238	15.6	1.2	0.081	Unfiltered		LAS
RS-54		Primary	02/08/98	Radium-226	213 U	---	213	Filtered		TN
RS-54		Primary	02/08/98	Thorium-228	-0.011 U	0.028	0.058	Filtered		TN
RS-54		Primary	02/08/98	Thorium-230	0.039 U	0.044	0.075	Filtered		TN
RS-54		Primary	02/08/98	Thorium-232	0.006 U	0.011	0.021	Filtered		TN
RS-54		Primary	02/08/98	Uranium-233/234	8.75	0.39	0.054	Filtered		TN
RS-54		Primary	02/08/98	Uranium-235	0.478	0.072	0.021	Filtered		TN
RS-54		Primary	02/08/98	Uranium-235	73 U	---	73	Filtered		TN
RS-54		Primary	02/08/98	Uranium-238	7.9	0.36	0.052	Filtered		TN
RS-54		Primary	08/04/98	Radium-226	183 U	---	183	Filtered		TN

See last page of table for notes and abbreviations.

TABLE E-V

RESULTS OF ANALYSES FOR SPECIFIC ISOTOPES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Shallow Wells										
RS-54		Primary	08/04/98	Thorium-228	0.028 U	0.028	0.035	Filtered		TN
RS-54		Primary	08/04/98	Thorium-230	0.081 U	---	0.081	Filtered		TN
RS-54		Primary	08/04/98	Thorium-232	0.018 U	0.028	0.035	Filtered		TN
RS-54		Primary	08/04/98	Uranium-233/234	7.91	0.48	0.076	Filtered		TN
RS-54		Primary	08/04/98	Uranium-235	68.2 U	---	68.2	Filtered		TN
RS-54		Primary	08/04/98	Uranium-235	0.509	0.098	0.037	Filtered		TN
RS-54		Primary	08/04/98	Uranium-238	7.24	0.45	0.073	Filtered		TN
RS-54		Primary	02/02/99	Thorium-228	0.012 U	0.02	0.031	Filtered		TN
RS-54		Primary	02/02/99	Thorium-230	0.034 U	0.04	0.072	Filtered		TN
RS-54		Primary	02/02/99	Thorium-232	-0.002 U	0.008	0.015	Filtered		TN
RS-54		Primary	02/02/99	Uranium-233/234	11.7	0.75	0.109	Filtered		TN
RS-54		Primary	02/02/99	Uranium-235	0.745	0.15	0.051	Filtered		TN
RS-54		Primary	02/02/99	Uranium-238	10.7	0.7	0.101	Filtered		TN
RS-54		Primary	08/18/99	Thorium-228	0.03 U	0.12	0.213	Filtered		TN
RS-54		Primary	08/18/99	Thorium-230	0.112 U	0.12	0.187	Filtered		TN
RS-54		Primary	08/18/99	Thorium-232	0 U	0.041	0.097	Filtered		TN
RS-54		Primary	08/18/99	Uranium-233/234	15.7	1.1	0.236	Filtered		TN
RS-54		Primary	08/18/99	Uranium-235	1.23	0.25	0.133	Filtered		TN
RS-54		Primary	08/18/99	Uranium-238	14	1	0.183	Filtered		TN
RS-54		Primary	03/15/00	Thorium-228	0 U	0.091	0.202	Filtered		TN
RS-54		Primary	03/15/00	Thorium-230	1.28 B	0.31	0.202	Filtered		TR
RS-54		Primary	03/15/00	Thorium-232	0.06 U	0.091	0.115	Filtered		TR
RS-54		Primary	03/15/00	Uranium-233/234	9.08	0.9	0.231	Filtered		TR
RS-54		Primary	03/15/00	Uranium-235	0.486	0.2	0.149	Filtered		TR
RS-54		Primary	03/15/00	Uranium-238	8.77 B	0.87	0.178	Filtered		TR
RS-54		Primary	11/01/01	Thorium-228	0 U	1	0.7	Filtered		TR
RS-54		Primary	11/01/01	Thorium-230	0 U	1	0.7	Filtered		DL
RS-54		Primary	11/01/01	Thorium-232	0 U	1	0.7	Filtered		DL
RS-54		Primary	11/01/01	Uranium-233/234	20.59	0.39	0.14	Filtered		DL
RS-54		Primary	11/01/01	Uranium-235	0.72	0.07	0.09	Filtered		DL
RS-54		Primary	11/01/01	Uranium-238	14.8	0.33	0.11	Filtered		DL
RS-54		Primary	03/01/02	Thorium-228	0.43 U	1	1	Filtered		DL
RS-54		Primary	03/01/02	Thorium-230	0 U	1	1	Filtered		DL
RS-54		Primary	03/01/02	Thorium-232	0 U	1	1	Filtered		DL
RS-54		Primary	03/01/02	Uranium-233/234	16.44	5	1	Filtered		DL
RS-54		Primary	03/01/02	Uranium-235	0.66 U	1	1	Filtered		DL
RS-54		Primary	03/01/02	Uranium-238	16.38	5	1	Filtered		DL
RS-54		Primary	11/07/02	Thorium-228	0.033 U	0.049	0.091	Filtered		ES
RS-54		Primary	11/07/02	Thorium-230	0.037 U	0.057	0.03	Filtered		ES
RS-54		Primary	11/07/02	Thorium-232	0 U	0.008	0.031	Filtered		ES
RS-54		Primary	11/07/02	Uranium-233/234	14.9	0.71	0.079	Filtered		ES
RS-54		Primary	11/07/02	Uranium-235	0.629	0.1	0.03	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-V

RESULTS OF ANALYSES FOR SPECIFIC ISOTOPES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Shallow Wells										
RS-54		Primary	11/07/02	Uranium-238	13.3	0.65	0.07	Filtered		ES
RS-54		Primary	02/16/05	Radium-226	-0.492 U	0.46	0.967	Filtered		ES
RS-54		Primary	02/16/05	Radium-228	0.214 U	0.22	0.572	Filtered		ES
RS-54		Primary	02/16/05	Thorium-228	0.033 U	0.029	0.045	Filtered		ES
RS-54		Primary	02/16/05	Thorium-230	0.095 U	0.066	0.096	Filtered		ES
RS-54		Primary	02/16/05	Thorium-232	-0.011 U	0.015	0.035	Filtered		ES
RS-54		Primary	02/16/05	Uranium-233/234	15.2	1	0.098	Filtered		ES
RS-54		Primary	02/16/05	Uranium-235	0.807 J	0.14	0.037	Filtered		ES
RS-54		Primary	02/16/05	Uranium-238	14.2	0.96	0.092	Filtered		ES
RS-54		Primary	09/06/05	Radium-226	0.269 U	0.43	0.734	Filtered		ES
RS-54		Primary	09/06/05	Radium-228	0.889 J	0.24	0.559	Filtered		ES
RS-54		Primary	09/06/05	Thorium-228	-0.013 U	0.035	0.067	Filtered		ES
RS-54		Primary	09/06/05	Thorium-230	-0.035 U	0.053	0.119	Filtered		ES
RS-54		Primary	09/06/05	Thorium-232	-0.009 U	0.009	0.033	Filtered		ES
RS-54		Primary	09/06/05	Uranium-233/234	13	0.83	0.073	Filtered		ES
RS-54		Primary	09/06/05	Uranium-235	0.665 J	0.11	0.027	Filtered		ES
RS-54		Primary	09/06/05	Uranium-238	11.5	0.75	0.068	Filtered		ES
RS-54		Primary	02/23/06	Radium-226	0.319 U	0.39	0.638	Filtered		ES
RS-54		Split	02/23/06	Radium-226	0.307 J	0.179	0.218	Filtered		STL
RS-54		Primary	02/23/06	Radium-228	0.466 U	0.21	0.488	Filtered		ES
RS-54		Split	02/23/06	Radium-228	0.588 J	0.278	0.475	Filtered		STL
RS-54		Primary	02/23/06	Thorium-228	0.01 U	0.035	0.057	Filtered		ES
RS-54		Split	02/23/06	Thorium-228	-0.035 U	0.035	0.301	Filtered		STL
RS-54		Primary	02/23/06	Thorium-230	-0.038 U	0.045	0.102	Filtered		ES
RS-54		Split	02/23/06	Thorium-230	-0.00851 U	0.017	0.204	Filtered		STL
RS-54		Primary	02/23/06	Thorium-232	-0.008 U	0.01	0.031	Filtered		ES
RS-54		Split	02/23/06	Thorium-232	0.0425 U	0.853	0.115	Filtered		STL
RS-54		Primary	02/23/06	Uranium-233/234	15.7	0.99	0.074	Filtered		ES
RS-54		Split	02/23/06	Uranium-233/234	15.6	3.63	0.0969	Filtered		STL
RS-54		Primary	02/23/06	Uranium-235	0.682 J	0.12	0.028	Filtered		ES
RS-54		Split	02/23/06	Uranium-235	0.422 J	0.264	0.171	Filtered		STL
RS-54		Primary	02/23/06	Uranium-238	14.2	0.91	0.07	Filtered		ES
RS-54		Split	02/23/06	Uranium-238	15.8	3.67	0.171	Filtered		STL
RS-54		Primary	02/15/07	Radium-226	-0.001 U	0.31	0.584	Filtered		ES
RS-54		Primary	02/15/07	Radium-228	0.063 U	0.28	0.381	Filtered		ES
RS-54		Primary	02/15/07	Thorium-228	0.016 U	0.037	0.063	Filtered		ES
RS-54		Primary	02/15/07	Thorium-230	-0.007 U	0.047	0.096	Filtered		ES
RS-54		Primary	02/15/07	Thorium-232	-0.005 U	0.014	0.031	Filtered		ES
RS-54		Primary	02/15/07	Uranium-234	12.7	1.1	0.134	Filtered		ES
RS-54		Primary	02/15/07	Uranium-235	0.641 J	0.16	0.077	Filtered		ES
RS-54		Primary	02/15/07	Uranium-238	11.6	1	0.119	Filtered		ES
RS-54		Primary	02/22/08	Radium-226	0.017 U	0.42	0.79	Filtered		ES
RS-54		Primary	02/22/08	Radium-228	0.323 U	0.43	0.353	Filtered		ES
RS-54		Primary	02/22/08	Strontium-90	-0.058 U	0.25	0.378	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-V
RESULTS OF ANALYSES FOR SPECIFIC ISOTOPES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Shallow Wells										
RS-54		Primary	02/22/08	Thorium-228	0.031 U	0.11	0.184	Filtered		ES
RS-54		Primary	02/22/08	Thorium-230	0.183	0.099	0.116	Filtered		ES
RS-54		Primary	02/22/08	Thorium-232	0.006 U	0.024	0.058	Filtered		ES
RS-54		Primary	02/22/08	Uranium-234	11.2	1.1	0.111	Filtered		ES
RS-54		Primary	02/22/08	Uranium-235	0.64 J	0.16	0.056	Filtered		ES
RS-54		Primary	02/22/08	Uranium-238	10.8	1.1	0.102	Filtered		ES
RS-54		Primary	09/04/08	Radium-226	0.043 U	0.39	0.734	Filtered		ES
RS-54		Primary	09/04/08	Radium-228	-0.091 U	1.5	1.38	Filtered		ES
SH-04		Primary	03/18/93	Radium-226	3.3	2.6	0.6	Filtered		CEP
SH-04		Primary	03/18/93	Radium-228	1 U	---	1	Filtered		CEP
SH-04		Primary	06/09/93	Radium-226	3.1	1	0.6	Filtered		CEP
SH-04		Primary	08/09/93	Radium-226	0.6 U	---	0.6	Filtered		CEP
SH-04		Primary	11/04/93	Radium-226	0.14 U	0.12	0.16	Filtered		LAS
SH-04		Primary	05/06/94	Uranium-233/234	4.54	0.79	0.17	Filtered		LAS
SH-04		Primary	05/06/94	Uranium-235	0.43	0.24	0.14	Filtered		LAS
SH-04		Primary	05/06/94	Uranium-238	3.73	0.71	0.088	Filtered		LAS
SH-11		Primary	10/31/89	Radium-226	0.254	0.098	---	Filtered		UST
SH-11		Primary	10/31/89	Radium-226	0.425	0.12	---	Unfiltered		UST
SH-11		Primary	10/31/89	Radium-228	0.842	0.405	---	Filtered		UST
SH-11		Primary	10/31/89	Radium-228	1.23	0.493	---	Unfiltered		UST
SH-11		Primary	10/31/89	Thorium-228	-0.0205 U	0.024	---	Filtered		UST
SH-11		Primary	10/31/89	Thorium-228	0.575	0.333	---	Unfiltered		UST
SH-11		Primary	10/31/89	Thorium-230	0.00785 U	0.008	---	Filtered		UST
SH-11		Primary	10/31/89	Thorium-230	0.284	0.137	---	Unfiltered		UST
SH-11		Primary	10/31/89	Thorium-232	0.00981 U	0.010	---	Filtered		UST
SH-11		Primary	10/31/89	Thorium-232	0.583	0.201	---	Unfiltered		UST
SH-11		Primary	10/31/89	Uranium-233/234	3.29	0.577	---	Filtered		UST
SH-11		Primary	10/31/89	Uranium-233/234	3.91	0.702	0.6	Unfiltered		CEP
SH-11		Primary	10/31/89	Uranium-235	0.0843 U	0.085	---	Filtered		UST
SH-11		Primary	10/31/89	Uranium-235	0.144	0.127	---	Unfiltered		UST
SH-11		Primary	10/31/89	Uranium-238	3.42	0.585	---	Filtered		UST
SH-11		Primary	10/31/89	Uranium-238	2.94	0.608	---	Unfiltered		UST
Chatsworth Formation Wells										
HAR-07		Primary	03/15/93	Radium-226	0.6 U	---	0.6	Filtered		CEP
HAR-07		Primary	03/15/93	Radium-228	1 U	---	1	Filtered		CEP
HAR-07		Primary	06/09/93	Radium-226	9	3.5	0.6	Filtered		CEP
HAR-07		Reanalysis of Primary	06/09/93	Radium-226	0.6 U	---	0.6	Filtered		CEP
HAR-07		Reanalysis of Primary	06/09/93	Radium-228	2	1	1	Filtered		CEP
HAR-07		Primary	08/09/93	Radium-226	0.6 U	---	0.6	Filtered		CEP
HAR-07		Primary	11/04/93	Radium-226	0.33	0.15	0.046	Filtered		CEP
HAR-16		Primary	03/15/93	Radium-226	0.6 U	---	0.6	Filtered		CEP
HAR-16		Primary	03/15/93	Radium-228	1 U	---	1	Filtered		CEP

See last page of table for notes and abbreviations.

TABLE E-V
RESULTS OF ANALYSES FOR SPECIFIC ISOTOPES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
HAR-16		Primary	06/09/93	Radium-226	0.6 U	---	0.6	Filtered		CEP
HAR-16		Primary	08/09/93	Radium-226	461	500	0.6	Filtered		CEP
HAR-16		Reanalysis of Primary	08/09/93	Radium-226	0.6 U	---	0.6	Filtered		CEP
HAR-16		Primary	08/09/93	Radium-228	1 U	---	1	Filtered		CEP
HAR-16		Primary	11/22/93	Radium-226	0.25	0.16	0.19	Filtered		CEP
HAR-16		Primary	02/04/94	Radium-226	0.15 U	0.17	0.27	Filtered		LAS
HAR-17		Primary	03/17/93	Radium-226	0.6 U	---	0.6	Filtered		CEP
HAR-17		Primary	03/17/93	Radium-228	1 U	---	1	Filtered		CEP
HAR-17		Primary	06/09/93	Radium-226	3.3	1.4	0.6	Filtered		CEP
HAR-17		Primary	08/09/93	Radium-226	0.6 U	---	0.6	Filtered		CEP
HAR-17		Primary	11/08/93	Radium-226	0 U	0.1	0.23	Filtered		CEP
HAR-18		Primary	05/08/94	Uranium-233/234	12.1	1.4	0.16	Filtered		LAS
HAR-18		Primary	05/08/94	Uranium-235	0.55	0.27	0.11	Filtered		LAS
HAR-18		Primary	05/08/94	Uranium-238	11.6	1.3	0.12	Filtered		LAS
RD-05B		Primary	03/16/93	Radium-226	0.6 U	---	0.6	Filtered		CEP
RD-05B		Primary	03/16/93	Radium-228	1 U	---	1	Filtered		CEP
RD-05B		Primary	06/07/93	Radium-226	4.9	2	0.6	Filtered		CEP
RD-05B		Primary	08/09/93	Radium-226	0.6 U	---	0.6	Filtered		CEP
RD-05B		Primary	11/22/93	Radium-226	0.77	0.27	0.17	Filtered		CEP
RD-06		Primary	10/31/89	Radium-226	0.825	0.202	---	Filtered		UST
RD-06		Primary	10/31/89	Radium-226	1.23	0.268	---	Unfiltered		UST
RD-06		Primary	10/31/89	Thorium-228	0.0428	0.036	---	Filtered		UST
RD-06		Primary	10/31/89	Thorium-228	0.0714	0.032	---	Unfiltered		UST
RD-06		Primary	10/31/89	Thorium-230	0.00196 U	0.004	---	Filtered		UST
RD-06		Primary	10/31/89	Thorium-230	0.00185 U	0.006	---	Unfiltered		UST
RD-06		Primary	10/31/89	Thorium-232	0 U	0.006	---	Filtered		UST
RD-06		Primary	10/31/89	Thorium-232	0.00185 U	0.004	---	Unfiltered		UST
RD-06		Primary	10/31/89	Uranium-233/234	0.892	0.227	---	Filtered		UST
RD-06		Primary	10/31/89	Uranium-233/234	1.2	0.302	---	Unfiltered		UST
RD-06		Primary	10/31/89	Uranium-235	0.0143 U	0.051	---	Filtered		UST
RD-06		Primary	10/31/89	Uranium-235	0.154	0.111	---	Unfiltered		UST
RD-06		Primary	10/31/89	Uranium-238	0.71	0.193	---	Filtered		UST
RD-06		Primary	10/31/89	Uranium-238	1.08	0.274	---	Unfiltered		UST
RD-06		Primary	03/16/93	Radium-226	0.6 U	---	0.6	Filtered		CEP
RD-06		Primary	03/16/93	Radium-228	1 U	---	1	Filtered		CEP
RD-06		Primary	06/07/93	Radium-226	3.5	2.7	0.6	Filtered		CEP
RD-06		Primary	08/09/93	Radium-226	0.6 U	---	0.6	Filtered		CEP
RD-06		Primary	11/22/93	Radium-226	1.32	0.34	0.22	Filtered		CEP
RD-07		Primary	08/25/97	Radium-226	-31 U	72	110	Filtered		LAS
RD-07		Primary	08/25/97	Radium-226	30 U	130	200	Unfiltered		LAS
RD-07		Primary	08/25/97	Uranium-235	8 U	20	29	Filtered		LAS
RD-07		Primary	08/25/97	Uranium-235	-21 U	26	45	Unfiltered		LAS

See last page of table for notes and abbreviations.

TABLE E-V
RESULTS OF ANALYSES FOR SPECIFIC ISOTOPES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-07		Primary	02/05/98	Thorium-228	0.032 U	0.032	0.051	Filtered		TN
RD-07		Primary	02/05/98	Thorium-230	0.04 U	0.043	0.07	Filtered		TN
RD-07		Primary	02/05/98	Thorium-232	0 U	0.005	0.021	Filtered		TN
RD-07		Primary	02/05/98	Uranium-233/234	5.46	0.28	0.043	Filtered		TN
RD-07		Primary	02/05/98	Uranium-235	0.226	0.048	0.025	Filtered		TN
RD-07		Primary	02/05/98	Uranium-238	4.87	0.26	0.039	Filtered		TN
RD-07		Primary	02/06/99	Thorium-228	0.026	0.016	0.022	Filtered		TN
RD-07		Primary	02/06/99	Thorium-230	0.028 U	0.04	0.072	Filtered		TN
RD-07		Primary	02/06/99	Thorium-232	0 U	0.008	0.015	Filtered		TN
RD-07		Primary	02/06/99	Uranium-233/234	7.76	0.51	0.084	Filtered		TN
RD-07		Primary	02/06/99	Uranium-235	0.414	0.1	0.042	Filtered		TN
RD-07		Primary	02/06/99	Uranium-238	6.68	0.45	0.077	Filtered		TN
RD-07		Primary	03/16/00	Thorium-228	-0.098 U	0.14	0.286	Filtered		TN
RD-07		Primary	03/16/00	Thorium-230	0.644 B	0.23	0.188	Filtered		TR
RD-07		Primary	03/16/00	Thorium-232	0.014 U	0.028	0.107	Filtered		TR
RD-07		Primary	03/16/00	Uranium-233/234	4.37	0.4	0.093	Filtered		TR
RD-07		Primary	03/16/00	Uranium-235	0.193	0.092	0.07	Filtered		TR
RD-07		Primary	03/16/00	Uranium-238	3.62 B	0.36	0.073	Filtered		TR
RD-07		Primary	02/23/01	Thorium-228	0.056 U	0.79	0.134	Filtered		TR
RD-07		Primary	02/23/01	Thorium-230	-0.028 U	0.045	0.091	Filtered		ES
RD-07		Primary	02/23/01	Thorium-232	0 U	0.023	0.043	Filtered		ES
RD-07		Primary	02/23/01	Uranium-233/234	5.26	0.39	0.071	Filtered		ES
RD-07		Primary	02/23/01	Uranium-235	0.322	0.091	0.043	Filtered		ES
RD-07		Primary	02/23/01	Uranium-238	4.22	0.34	0.067	Filtered		ES
RD-07		Primary	02/22/02	Thorium-228	0.21 U	1	1	Filtered		DL
RD-07		Primary	02/22/02	Thorium-230	0 U	1	1	Filtered		DL
RD-07		Primary	02/22/02	Thorium-232	0 U	1	1	Filtered		DL
RD-07		Primary	02/22/02	Uranium-233/234	9.22	3	3	Filtered		DL
RD-07		Primary	02/22/02	Uranium-235	0.33 U	1	3	Filtered		DL
RD-07		Primary	02/22/02	Uranium-238	8.19	3	3	Filtered		DL
RD-07	Z3	Primary	01/29/03	Thorium-228	0.058 J	0.02	0.018	Filtered		ES
RD-07	Z3	Primary	01/29/03	Thorium-230	0.029 U	0.047	0.108	Filtered		ES
RD-07	Z3	Primary	01/29/03	Thorium-232	0.004 U	0.008	0.013	Filtered		ES
RD-07	Z3	Primary	01/29/03	Uranium-233/234	14.7	0.51	0.064	Filtered		ES
RD-07	Z3	Primary	01/29/03	Uranium-235	0.551	0.084	0.024	Filtered		ES
RD-07	Z3	Primary	01/29/03	Uranium-238	11.8	0.44	0.06	Filtered		ES
RD-07	Z13	Primary	08/28/03	Radium-226	0.289 J	0.035	0.016	Filtered		ES
RD-07	Z13	Primary	08/28/03	Radium-228	1.17	0.25	0.57	Unfiltered		ES
RD-07	Z4	Primary	08/25/04	Radium-226	0.259 J	0.039	0.021	Filtered		ES
RD-07	Z4	Primary	08/25/04	Radium-228	0.539 U	0.24	0.584	Filtered		ES
RD-07	Z4	Primary	08/25/04	Thorium-228	0.021 U	0.028	0.044	Filtered		ES
RD-07	Z4	Primary	08/25/04	Thorium-230	-0.014 U	0.056	0.11	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-V
RESULTS OF ANALYSES FOR SPECIFIC ISOTOPES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-07	Z4	Primary	08/25/04	Thorium-232	-0.011 U	0.014	0.034	Filtered		ES
RD-07	Z5	Primary	08/25/04	Radium-226	0.169 J	0.033	0.023	Filtered		ES
RD-07	Z5	Primary	08/25/04	Radium-228	0.493 U	0.27	0.66	Filtered		ES
RD-07	Z5	Primary	08/25/04	Thorium-228	0.008 U	0.024	0.044	Filtered		ES
RD-07	Z5	Primary	08/25/04	Thorium-230	0.083 U	0.071	0.109	Filtered		ES
RD-07	Z5	Primary	08/25/04	Thorium-232	-0.004 U	0.016	0.038	Filtered		ES
RD-07	Z6	Primary	08/25/04	Radium-226	0.729 J	0.069	0.026	Filtered		ES
RD-07	Z6	Primary	08/25/04	Radium-228	1.36	0.33	0.718	Filtered		ES
RD-07	Z6	Primary	08/25/04	Thorium-228	0 U	0.021	0.042	Filtered		ES
RD-07	Z6	Primary	08/25/04	Thorium-230	-0.014 U	0.055	0.108	Filtered		ES
RD-07	Z6	Primary	08/25/04	Thorium-232	-0.01 U	0.014	0.033	Filtered		ES
RD-07	Z7	Primary	08/25/04	Radium-226	0.302 J	0.046	0.027	Filtered		ES
RD-07	Z7	Primary	08/25/04	Radium-228	0.772 J	0.35	0.629	Filtered		ES
RD-07	Z7	Primary	08/25/04	Thorium-228	0.004 U	0.03	0.05	Filtered		ES
RD-07	Z7	Primary	08/25/04	Thorium-230	0.007 U	0.052	0.103	Filtered		ES
RD-07	Z7	Primary	08/25/04	Thorium-232	-0.011 U	0.015	0.036	Filtered		ES
RD-07	Z8	Primary	08/25/04	Radium-226	0.399 J	0.051	0.025	Filtered		ES
RD-07	Z8	Primary	08/25/04	Radium-228	0.797 J	0.28	0.677	Filtered		ES
RD-07	Z8	Primary	08/25/04	Thorium-228	0.019 U	0.023	0.036	Filtered		ES
RD-07	Z8	Primary	08/25/04	Thorium-230	0.068 U	0.061	0.103	Filtered		ES
RD-07	Z8	Primary	08/25/04	Thorium-232	-0.008 U	0.015	0.036	Filtered		ES
RD-07	Z9	Primary	08/25/04	Radium-226	0.302 J	0.044	0.025	Filtered		ES
RD-07	Z9	Primary	08/25/04	Radium-228	0.949 J	0.31	0.718	Filtered		ES
RD-07	Z9	Primary	08/25/04	Thorium-228	0.048 J	0.037	0.045	Filtered		ES
RD-07	Z9	Primary	08/25/04	Thorium-230	0.029 U	0.058	0.096	Filtered		ES
RD-07	Z9	Primary	08/25/04	Thorium-232	-0.004 U	0.015	0.028	Filtered		ES
RD-07	Z10	Primary	08/25/04	Radium-226	0.297 J	0.043	0.023	Filtered		ES
RD-07	Z10	Primary	08/25/04	Radium-228	0.87 J	0.24	0.558	Filtered		ES
RD-07	Z10	Primary	08/25/04	Thorium-228	0.015 U	0.024	0.042	Filtered		ES
RD-07	Z10	Primary	08/25/04	Thorium-230	0.029 U	0.059	0.106	Filtered		ES
RD-07	Z10	Primary	08/25/04	Thorium-232	-0.006 U	0.012	0.036	Filtered		ES
RD-07	Z11	Primary	08/25/04	Radium-226	0.298 J	0.044	0.026	Filtered		ES
RD-07	Z11	Primary	08/25/04	Radium-228	0.861 J	0.29	0.686	Filtered		ES
RD-07	Z11	Primary	08/25/04	Thorium-228	0.009 U	0.023	0.04	Filtered		ES
RD-07	Z11	Primary	08/25/04	Thorium-230	-0.005 U	0.047	0.095	Filtered		ES
RD-07	Z11	Primary	08/25/04	Thorium-232	0.005 U	0.014	0.031	Filtered		ES
RD-07	Z12	Primary	08/25/04	Radium-226	0.323 J	0.045	0.024	Filtered		ES
RD-07	Z12	Primary	08/25/04	Radium-228	0.847 J	0.28	0.612	Filtered		ES
RD-07	Z12	Primary	08/25/04	Thorium-228	0.03 U	0.033	0.044	Filtered		ES
RD-07	Z12	Primary	08/25/04	Thorium-230	-0.003 U	0.053	0.103	Filtered		ES
RD-07	Z12	Primary	08/25/04	Thorium-232	-0.003 U	0.013	0.032	Filtered		ES
RD-07	Z13	Primary	08/25/04	Radium-226	0.344 J	0.047	0.024	Filtered		ES
RD-07	Z13	Primary	08/25/04	Radium-228	0.835 J	0.27	0.62	Filtered		ES
RD-07	Z13	Primary	08/25/04	Thorium-228	0.045 J	0.034	0.042	Filtered		ES
RD-07	Z13	Primary	08/25/04	Thorium-230	-0.017 U	0.055	0.107	Filtered		ES
RD-07	Z13	Primary	08/25/04	Thorium-232	0.007 U	0.021	0.033	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-V

RESULTS OF ANALYSES FOR SPECIFIC ISOTOPES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-07	Z3	Primary	02/17/05	Radium-226	0.085 U	0.32	0.589	Filtered		ES
RD-07	Z3	Primary	02/17/05	Radium-228	0.36 U	0.24	0.62	Filtered		ES
RD-07	Z3	Primary	02/17/05	Thorium-228	-0.007 U	0.022	0.04	Filtered		ES
RD-07	Z3	Primary	02/17/05	Thorium-230	0.18	0.073	0.097	Filtered		ES
RD-07	Z3	Primary	02/17/05	Thorium-232	0.018 U	0.022	0.034	Filtered		ES
RD-07	Z3	Primary	02/17/05	Uranium-233/234	5.26	0.42	0.052	Filtered		ES
RD-07	Z3	Primary	02/17/05	Uranium-235	0.187 J	0.057	0.036	Filtered		ES
RD-07	Z3	Primary	02/17/05	Uranium-238	4.22	0.35	0.052	Filtered		ES
RD-07	Z3	Primary	08/31/05	Radium-226	0.205 U	0.35	0.601	Filtered		ES
RD-07	Z3	Primary	08/31/05	Radium-228	0.404 U	0.22	0.55	Filtered		ES
RD-07	Z3	Primary	02/16/06	Radium-226	0.219 U	0.42	0.739	Filtered		ES
RD-07	Z3	Primary	02/16/06	Radium-228	0.088 U	0.76	0.424	Filtered		ES
RD-07	Z3	Primary	02/16/06	Thorium-228	-0.006 U	0.023	0.046	Filtered		ES
RD-07	Z3	Primary	02/16/06	Thorium-230	-0.04 U	0.046	0.103	Filtered		ES
RD-07	Z3	Primary	02/16/06	Thorium-232	-0.011 U	0.011	0.035	Filtered		ES
RD-07	Z3	Primary	02/16/06	Uranium-233/234	22.2	1.3	0.076	Filtered		ES
RD-07	Z3	Primary	02/16/06	Uranium-235	0.948 J	0.12	0.023	Filtered		ES
RD-07	Z3	Primary	02/16/06	Uranium-238	17.5	1.1	0.074	Filtered		ES
RD-07	Z3	Primary	08/16/06	Radium-226	-0.007 U	0.41	0.832	Filtered		ES
RD-07	Z3	Primary	08/16/06	Radium-228	0.218 U	0.61	0.43	Filtered		ES
RD-07	Z3	Primary	08/16/06	Uranium-233/234	27.8	1.6	0.086	Filtered		ES
RD-07	Z3	Primary	08/16/06	Uranium-235	1.77	0.16	0.021	Filtered		ES
RD-07	Z3	Primary	08/16/06	Uranium-238	22	1.3	0.081	Filtered		ES
RD-07	Z3	Primary	02/08/07	Radium-226	0.428 U	0.46	0.739	Filtered		ES
RD-07	Z3	Primary	02/08/07	Radium-228	1.35	1.2	0.475	Filtered		ES
RD-07	Z3	Primary	02/08/07	Thorium-228	0.009 U	0.036	0.062	Filtered		ES
RD-07	Z3	Primary	02/08/07	Thorium-230	-0.023 U	0.05	0.103	Filtered		ES
RD-07	Z3	Primary	02/08/07	Thorium-232	-0.005 U	0.014	0.028	Filtered		ES
RD-07	Z3	Primary	02/08/07	Uranium-234	30	1.8	0.094	Filtered		ES
RD-07	Z3	Primary	02/08/07	Uranium-235	1.22	0.15	0.027	Filtered		ES
RD-07	Z3	Primary	02/08/07	Uranium-238	24	1.5	0.091	Filtered		ES
RD-07	Z3	Primary	08/09/07	Radium-226	0.076 U	0.41	0.801	Filtered		ES
RD-07	Z3	Primary	08/09/07	Radium-228	1.2	0.22	0.472	Filtered		ES
RD-07	Z3	Primary	08/09/07	Uranium-233/234	26	1.8	0.131	Filtered		ES
RD-07	Z3	Primary	08/09/07	Uranium-235	1.14	0.2	0.054	Filtered		ES
RD-07	Z3	Primary	08/09/07	Uranium-238	20.8	1.5	0.125	Filtered		ES
RD-07	Z3	Primary	02/05/08	Radium-226	-0.077 U	0.37	0.716	Filtered		ES
RD-07	Z3	Primary	02/05/08	Radium-228	0.081 U	0.32	0.389	Filtered		ES
RD-07	Z3	Primary	02/05/08	Strontium-90	0.05 U	0.25	0.475	Filtered		ES
RD-07	Z3	Primary	02/05/08	Thorium-228	-0.006 U	0.023	0.049	Filtered		ES
RD-07	Z3	Primary	02/05/08	Thorium-230	-0.049 U	0.051	0.107	Filtered		ES
RD-07	Z3	Primary	02/05/08	Thorium-232	-0.02 U	0.017	0.046	Filtered		ES
RD-07	Z3	Primary	02/05/08	Uranium-234	26.3	1.6	0.087	Filtered		ES
RD-07	Z3	Primary	02/05/08	Uranium-235	1.17	0.13	0.03	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-V
RESULTS OF ANALYSES FOR SPECIFIC ISOTOPES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-07	Z3	Primary	02/05/08	Uranium-238	21.3	1.3	0.082	Filtered		ES
RD-07	Z3	Primary	08/06/08	Radium-226	0.306 U	0.42	0.71	Filtered		ES
RD-07	Z3	Primary	08/06/08	Radium-228	1.16	0.35	0.542	Filtered		ES
RD-13		Primary	10/31/89	Plutonium-238	-0.00077 U	0.006	---	Filtered		UST
RD-13		Primary	10/31/89	Plutonium-239/240	0.00239 U	0.006	---	Filtered		ES
RD-13		Primary	08/26/97	Radium-226	20 U	130	190	Filtered		LAS
RD-13		Primary	08/26/97	Radium-226	30 U	120	190	Unfiltered		LAS
RD-13		Primary	08/26/97	Uranium-233/234	2.06	0.32	0.1	Filtered		LAS
RD-13		Primary	08/26/97	Uranium-233/234	2.22	0.33	0.078	Unfiltered		LAS
RD-13		Primary	08/26/97	Uranium-235	0.089	0.065	0.059	Filtered		LAS
RD-13		Primary	08/26/97	Uranium-235	13 U	29	41	Filtered		LAS
RD-13		Primary	08/26/97	Uranium-235	0.124	0.077	0.06	Unfiltered		LAS
RD-13		Primary	08/26/97	Uranium-238	1.29	0.24	0.081	Filtered		LAS
RD-13		Primary	08/26/97	Uranium-238	1.38	0.25	0.073	Unfiltered		LAS
RD-14		Primary	10/31/89	Radium-226	0.469	0.137	---	Unfiltered		UST
RD-14		Primary	10/31/89	Radium-228	0.585	0.16	---	Filtered		UST
RD-14		Primary	10/31/89	Radium-228	0.901	0.492	---	Filtered		UST
RD-14		Primary	10/31/89	Radium-228	0.747	0.391	---	Unfiltered		UST
RD-14		Primary	10/31/89	Thorium-228	0.0406	0.035	---	Filtered		UST
RD-14		Primary	10/31/89	Thorium-228	0.0404	0.029	---	Unfiltered		UST
RD-14		Primary	10/31/89	Thorium-230	0.0055 U	0.014	---	Filtered		UST
RD-14		Primary	10/31/89	Thorium-230	0.00388 U	0.006	---	Unfiltered		UST
RD-14		Primary	10/31/89	Thorium-232	0.0136	0.010	---	Unfiltered		UST
RD-14		Primary	10/31/89	Uranium-233/234	2.63	0.453	---	Filtered		UST
RD-14		Primary	10/31/89	Uranium-233/234	2.99	0.539	---	Unfiltered		UST
RD-14		Primary	10/31/89	Uranium-235	0.131	0.089	---	Filtered		UST
RD-14		Primary	10/31/89	Uranium-235	0.0662 U	0.088	---	Unfiltered		UST
RD-14		Primary	10/31/89	Uranium-238	2.57	0.441	---	Filtered		UST
RD-14		Primary	10/31/89	Uranium-238	2.68	0.495	---	Unfiltered		UST
RD-15		Primary	05/10/01	Uranium-233/234	4.81	0.88	0.234	Filtered		UST
RD-15		Primary	05/10/01	Uranium-235	0.296	0.22	0.284	Filtered		ES
RD-15		Primary	05/10/01	Uranium-238	4.59	0.82	0.234	Filtered		ES
RD-15		Primary	03/06/02	Uranium-233/234	3.07	1	1	Filtered		DL
RD-15		Primary	03/06/02	Uranium-235	0.3 U	1	1	Filtered		DL
RD-15		Primary	03/06/02	Uranium-238	2.84	1	1	Filtered		DL
RD-15		Primary	02/26/03	Uranium-233/234	2.86	0.2	0.043	Filtered		ES
RD-15		Primary	02/26/03	Uranium-235	0.122	0.043	0.027	Filtered		ES
RD-15		Primary	02/26/03	Uranium-238	2.71	0.19	0.036	Filtered		ES
RD-15		Primary	02/24/04	Radium-226	0.624 J	0.083	0.035	Filtered		ES
RD-15		Primary	02/24/04	Radium-228	0.825 J	0.17	0.378	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-V
RESULTS OF ANALYSES FOR SPECIFIC ISOTOPES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-15		Primary	02/24/04	Uranium-233/234	5.51	0.39	0.051	Filtered		ES
RD-15		Primary	02/24/04	Uranium-235	0.274 J	0.063	0.026	Filtered		ES
RD-15		Primary	02/24/04	Uranium-238	5.41	0.39	0.045	Filtered		ES
RD-15		Primary	08/09/04	Radium-226	0.962 J	0.11	0.054	Filtered		ES
RD-15		Primary	08/09/04	Radium-228	0.984 J	0.21	0.443	Filtered		ES
RD-15		Primary	02/14/05	Radium-226	0.946 J	0.34	0.394	Filtered		ES
RD-15		Primary	02/14/05	Radium-228	1.49	0.28	0.554	Filtered		ES
RD-15		Primary	02/14/05	Uranium-233/234	4.19	0.36	0.059	Filtered		ES
RD-15		Primary	02/14/05	Uranium-235	0.257 J	0.071	0.038	Filtered		ES
RD-15		Primary	02/14/05	Uranium-238	4.08	0.35	0.055	Filtered		ES
RD-15		Primary	08/24/05	Radium-226	0.061 J	0.024	0.032	Filtered		ES
RD-15		Primary	08/24/05	Radium-228	1.58	0.27	0.526	Filtered		ES
RD-15		Primary	02/16/06	Radium-226	0.747 U	0.59	0.894	Filtered		ES
RD-15		Split	02/16/06	Radium-226	0.766 J	0.233	0.144	Filtered		STL
RD-15		Primary	02/16/06	Radium-228	1.23	0.23	0.501	Filtered		ES
RD-15		Split	02/16/06	Radium-228	1.17	0.357	0.492	Filtered		STL
RD-15		Primary	02/16/06	Uranium-233/234	3.46	0.35	0.065	Filtered		ES
RD-15		Split	02/16/06	Uranium-233/234	3.49	1.11	0.13	Filtered		STL
RD-15		Primary	02/16/06	Uranium-235	0.086 J	0.057	0.055	Filtered		ES
RD-15		Split	02/16/06	Uranium-235	0.191 J	0.196	0.13	Filtered		STL
RD-15		Primary	02/16/06	Uranium-238	3.02	0.32	0.045	Filtered		ES
RD-15		Split	02/16/06	Uranium-238	2.72	0.93	0.229	Filtered		STL
RD-15		Primary	08/08/06	Radium-226	0.479 U	0.46	0.746	Filtered		ES
RD-15		Split	08/08/06	Radium-226	0.746 J	0.22	0.156	Filtered		STL
RD-15		Primary	08/08/06	Radium-228	1.59	0.28	0.562	Filtered		ES
RD-15		Split	08/08/06	Radium-228	2.4	0.44	0.446	Filtered		STL
RD-15		Primary	02/06/07	Radium-226	0.579 U	0.49	0.774	Filtered		ES
RD-15		Primary	02/06/07	Radium-228	0.752 J	0.41	0.432	Filtered		ES
RD-15		Primary	02/06/07	Uranium-234	3.09	0.38	0.065	Filtered		ES
RD-15		Primary	02/06/07	Uranium-235	0.133 J	0.082	0.078	Filtered		ES
RD-15		Primary	02/06/07	Uranium-238	3.01	0.38	0.065	Filtered		ES
RD-15		Primary	08/07/07	Radium-226	1.44	0.64	0.747	Filtered		ES
RD-15		Primary	08/07/07	Radium-228	1.18	0.26	0.435	Filtered		ES
RD-15		Primary	02/20/08	Radium-226	0.682 U	0.51	0.755	Filtered		ES
RD-15		Primary	02/20/08	Radium-228	0.492 J	0.38	0.358	Filtered		ES
RD-15		Primary	02/20/08	Strontium-90	0.044 U	0.28	0.558	Filtered		ES
RD-15		Primary	02/20/08	Uranium-234	3.51	0.45	0.091	Filtered		ES
RD-15		Primary	02/20/08	Uranium-235	0.272 J	0.1	0.063	Filtered		ES
RD-15		Primary	02/20/08	Uranium-238	3.15	0.42	0.075	Filtered		ES
RD-15		Primary	08/06/08	Radium-226	0.666 J	0.43	0.598	Filtered		ES
RD-15		Primary	08/06/08	Radium-228	1	0.25	0.512	Filtered		ES
RD-16		Primary	05/27/98	Radium-226	188 U	---	188	Filtered		TN
RD-16		Primary	05/27/98	Uranium-235	54.3 U	---	54.3	Filtered		TN

See last page of table for notes and abbreviations.

TABLE E-V
RESULTS OF ANALYSES FOR SPECIFIC ISOTOPES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-17		Primary	02/08/99	Thorium-228	0.018 U	0.048	0.093	Filtered		ES
RD-17		Primary	02/08/99	Thorium-230	0.072 U	0.06	0.074	Filtered		TN
RD-17		Primary	02/08/99	Thorium-232	0.012 U	0.024	0.046	Filtered		TN
RD-17		Primary	02/08/99	Uranium-233/234	1.56	0.16	0.039	Filtered		TN
RD-17		Primary	02/08/99	Uranium-235	0.103	0.043	0.033	Filtered		TN
RD-17		Primary	02/08/99	Uranium-238	1.19	0.14	0.034	Filtered		TN
RD-17		Primary	02/23/04	Radium-226	1.28	0.13	0.04	Filtered		ES
RD-17		Primary	02/23/04	Radium-228	1.5	0.21	0.407	Filtered		ES
RD-17		Primary	08/09/04	Radium-226	1.07	0.12	0.055	Filtered		ES
RD-17		Primary	08/09/04	Radium-228	1.44	0.24	0.475	Filtered		ES
RD-17		Primary	02/15/05	Radium-226	1.07	0.38	0.471	Filtered		ES
RD-17		Primary	02/15/05	Radium-228	1.2	0.26	0.532	Filtered		ES
RD-17		Primary	08/23/05	Radium-226	0.526 U	0.48	0.743	Filtered		ES
RD-17		Primary	08/23/05	Radium-228	1.26	0.32	0.65	Filtered		ES
RD-17		Primary	02/16/06	Radium-226	1.51	0.61	0.837	Filtered		ES
RD-17		Primary	02/16/06	Radium-228	1.75	0.28	0.506	Filtered		ES
RD-17		Primary	08/10/06	Radium-226	0.734 U	0.61	0.946	Filtered		ES
RD-17		Primary	08/10/06	Radium-228	0.517 J	0.19	0.437	Filtered		ES
RD-17		Primary	02/06/07	Radium-226	1.04	0.53	0.716	Filtered		ES
RD-17		Split	02/06/07	Radium-226	1.15	0.31	0.142	Filtered		STL
RD-17		Primary	02/06/07	Radium-228	0.676 J	0.25	0.345	Filtered		ES
RD-17		Split	02/06/07	Radium-228	1.48	0.35	0.465	Filtered		STL
RD-17		Primary	08/06/07	Radium-226	0.966 J	0.59	0.845	Filtered		ES
RD-17		Primary	08/06/07	Radium-228	0.713 J	0.21	0.484	Filtered		ES
RD-17		Primary	02/22/08	Radium-226	0.893 J	0.57	0.799	Filtered		ES
RD-17		Primary	02/22/08	Radium-228	1.51	0.28	0.43	Filtered		ES
RD-17		Primary	02/22/08	Strontium-90	-0.169 U	0.22	0.463	Filtered		ES
RD-17		Primary	08/06/08	Radium-226	1.51	0.58	0.562	Filtered		ES
RD-17		Primary	08/06/08	Radium-228	0.894 J	0.25	0.516	Filtered		ES
RD-18		Primary	03/17/93	Radium-226	4	2.4	0.6	Filtered		TN
RD-18		Primary	03/17/93	Radium-228	1 U	---	1	Filtered		TN
RD-18		Primary	06/08/93	Radium-226	10.8	3.8	0.6	Filtered		CEP
RD-18		Primary	06/08/93	Radium-228	1 U	---	1	Filtered		CEP
RD-18		Primary	08/09/93	Radium-226	0.6 U	---	0.6	Filtered		CEP
RD-18		Primary	11/04/93	Radium-226	0.84	0.27	0.24	Filtered		CEP
RD-18		Primary	06/08/99	Radium-228	1 U	---	1	Filtered		CEP
RD-19		Primary	03/08/93	Uranium-233/234	12.8	2.8	0.6	Filtered		CEP
RD-19		Primary	03/08/93	Uranium-235	0.51 U	0.2	0.6	Filtered		CEP
RD-19		Primary	03/08/93	Uranium-238	16.3	3.2	0.6	Filtered		CEP
RD-19		Primary	02/06/96	Uranium-233/234	3.71	0.55	0.16	Filtered		CEP
RD-19		Primary	02/06/96	Uranium-235	0.32	0.16	0.13	Filtered		LAS
RD-19		Primary	02/06/96	Uranium-238	3.22	0.5	0.13	Filtered		LAS
RD-19		Primary	02/06/98	Thorium-228	0.008 U	0.031	0.052	Filtered		TN
RD-19		Primary	02/06/98	Thorium-230	0.069 U	---	0.069	Filtered		TN

See last page of table for notes and abbreviations.

TABLE E-V

RESULTS OF ANALYSES FOR SPECIFIC ISOTOPES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-19		Primary	02/06/98	Thorium-232	0.018 U	0.015	0.02	Filtered		TN
RD-19		Primary	02/06/98	Uranium-233/234	13	0.54	0.067	Filtered		TN
RD-19		Primary	02/06/98	Uranium-235	0.723	0.092	0.021	Filtered		TN
RD-19		Primary	02/06/98	Uranium-238	12.4	0.52	0.063	Filtered		TN
RD-21		Primary	11/06/93	Americium-241	12.9 U	---	12.9	Filtered		LAS
RD-21		Primary	11/06/93	Radium-226	85.3 U	---	85.3	Filtered		LAS
RD-21		Primary	02/08/95	Uranium-235	21 U	27	38	Filtered		LAS
RD-21		Primary	08/31/95	Uranium-235	-24 U	27	48	Filtered		LAS
RD-21		Primary	02/16/96	Uranium-235	21 U	28	42	Filtered		LAS
RD-21		Primary	08/18/96	Uranium-235	6 U	30	45	Filtered		LAS
RD-21		Primary	02/06/97	Uranium-235	-13 U	28	41	Filtered		LAS
RD-21		Primary	02/09/98	Radium-226	102 U	---	102	Filtered		TN
RD-21		Primary	02/09/98	Uranium-235	32.3 U	---	32.3	Filtered		TN
RD-21		Primary	10/24/01	Uranium-233/234	6.91	0.21	0.14	Filtered		TN
RD-21		Primary	10/24/01	Uranium-235	0.21	0.08	0.13	Filtered		DL
RD-21		Primary	10/24/01	Uranium-238	6.4	0.2	0.15	Filtered		DL
RD-21	Z2	Primary	11/04/04	Radium-226	1.33	0.41	0.408	Filtered		ES
RD-21	Z2	Primary	11/04/04	Radium-228	-0.23 U	0.33	0.679	Filtered		ES
RD-21	Z2	Primary	11/04/04	Uranium-233/234	5.6	0.4	0.049	Filtered		ES
RD-21	Z2	Primary	11/04/04	Uranium-235	0.285 J	0.065	0.027	Filtered		ES
RD-21	Z2	Primary	11/04/04	Uranium-238	4.88	0.36	0.049	Filtered		ES
RD-21	Z2	Primary	02/16/05	Radium-226	0.243 U	0.38	0.654	Filtered		ES
RD-21	Z2	Primary	02/16/05	Radium-228	0.312 U	0.21	0.539	Filtered		ES
RD-21	Z2	Primary	02/16/05	Uranium-233/234	5.78	0.42	0.051	Filtered		ES
RD-21	Z2	Primary	02/16/05	Uranium-235	0.267 J	0.062	0.029	Filtered		ES
RD-21	Z2	Primary	02/16/05	Uranium-238	4.67	0.36	0.048	Filtered		ES
RD-21	Z2	Primary	09/01/05	Radium-226	0.393 U	0.4	0.647	Filtered		ES
RD-21	Z2	Primary	09/01/05	Radium-228	0.418 U	0.23	0.597	Filtered		ES
RD-21	Z2	Primary	09/01/05	Uranium-233/234	5.7	0.43	0.055	Filtered		ES
RD-21	Z2	Primary	09/01/05	Uranium-235	0.269 J	0.068	0.032	Filtered		ES
RD-21	Z2	Primary	09/01/05	Uranium-238	4.64	0.36	0.052	Filtered		ES
RD-21	Z2	Primary	02/16/06	Radium-226	0.346 U	0.45	0.755	Filtered		ES
RD-21	Z2	Primary	02/16/06	Radium-228	-0.029 U	0.4	0.39	Filtered		ES
RD-21	Z2	Primary	02/16/06	Uranium-233/234	5.32	0.4	0.05	Filtered		ES
RD-21	Z2	Primary	02/16/06	Uranium-235	0.224 J	0.064	0.03	Filtered		ES
RD-21	Z2	Primary	02/16/06	Uranium-238	4.61	0.36	0.05	Filtered		ES
RD-21	Z2	Primary	08/16/06	Radium-226	0.092 U	0.42	0.758	Filtered		ES
RD-21	Z2	Primary	08/16/06	Radium-228	0.684 J	0.2	0.453	Filtered		ES
RD-21	Z2	Primary	08/16/06	Uranium-233/234	8.4	0.57	0.058	Filtered		ES
RD-21	Z2	Primary	08/16/06	Uranium-235	0.367 J	0.074	0.027	Filtered		ES
RD-21	Z2	Primary	08/16/06	Uranium-238	7.98	0.54	0.052	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-V
RESULTS OF ANALYSES FOR SPECIFIC ISOTOPES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-21	Z2	Primary	05/21/07	Radium-226	0.332 U	0.4	0.664	Filtered		ES
RD-21	Z2	Primary	05/21/07	Radium-228	0.25 U	0.46	0.396	Filtered		ES
RD-21	Z2	Primary	05/21/07	Uranium-234	5.86	0.45	0.058	Filtered		ES
RD-21	Z2	Primary	05/21/07	Uranium-235	0.29 J	0.071	0.033	Filtered		ES
RD-21	Z2	Primary	05/21/07	Uranium-238	5.17	0.4	0.058	Filtered		ES
RD-21	Z2	Primary	08/09/07	Radium-226	0.753 U	0.6	0.926	Filtered		ES
RD-21	Z2	Primary	08/09/07	Radium-228	0.459 J	0.18	0.433	Filtered		ES
RD-21	Z2	Primary	08/09/07	Uranium-233/234	6.23	0.45	0.051	Filtered		ES
RD-21	Z2	Primary	08/09/07	Uranium-235	0.257 J	0.059	0.028	Filtered		ES
RD-21	Z2	Primary	08/09/07	Uranium-238	5.56	0.41	0.046	Filtered		ES
RD-21	Z2	Primary	02/05/08	Radium-226	0.999 J	0.57	0.747	Filtered		ES
RD-21	Z2	Primary	02/05/08	Radium-228	0.227 U	0.19	0.381	Filtered		ES
RD-21	Z2	Primary	02/05/08	Strontium-90	-0.133 U	0.23	0.478	Filtered		ES
RD-21	Z2	Primary	02/05/08	Uranium-234	4.31	0.35	0.05	Filtered		ES
RD-21	Z2	Primary	02/05/08	Uranium-235	0.148 J	0.052	0.032	Filtered		ES
RD-21	Z2	Primary	02/05/08	Uranium-238	3.5	0.31	0.047	Filtered		ES
RD-21	Z3	Primary	08/06/08	Radium-226	0.105 U	0.29	0.516	Filtered		ES
RD-21	Z3	Primary	08/06/08	Radium-228	0.108 U	0.29	0.507	Filtered		ES
RD-21	Z3	Primary	08/06/08	Uranium-234	3.95	0.41	0.051	Filtered		ES
RD-21	Z3	Primary	08/06/08	Uranium-235	0.197 J	0.059	0.038	Filtered		ES
RD-21	Z3	Primary	08/06/08	Uranium-238	3.35	0.35	0.048	Filtered		ES
RD-22		Primary	11/21/93	Americium-241	14 U	---	14	Filtered		LAS
RD-22		Primary	11/21/93	Radium-226	90.8 U	---	90.8	Filtered		LAS
RD-22		Primary	02/17/95	Uranium-235	-29 U	14	45	Filtered		LAS
RD-22		Primary	08/29/95	Uranium-235	1 U	31	44	Filtered		LAS
RD-22		Primary	02/16/96	Uranium-235	-12.6 U	9.8	29	Filtered		LAS
RD-22		Primary	08/18/96	Uranium-235	-15 U	27	43	Filtered		LAS
RD-22		Primary	02/26/97	Uranium-235	-8 U	27	42	Filtered		LAS
RD-22		Primary	05/28/98	Radium-226	192 U	---	192	Filtered		TN
RD-22		Primary	05/28/98	Uranium-235	74.7 U	---	74.7	Filtered		TN
RD-22	Z2	Primary	11/12/04	Radium-226	1.81	0.44	0.382	Filtered		ES
RD-22	Z2	Primary	11/12/04	Radium-228	2.36	0.32	0.565	Filtered		ES
RD-22	Z2	Primary	02/17/05	Radium-226	1.27	0.52	0.601	Filtered		ES
RD-22	Z2	Primary	02/17/05	Radium-228	3.34	0.37	0.564	Filtered		ES
RD-22	Z2	Primary	08/31/05	Radium-226	1.15	0.46	0.662	Filtered		ES
RD-22	Z2	Primary	08/31/05	Radium-228	2.87	0.35	0.582	Filtered		ES
RD-22	Z2	Primary	02/15/06	Radium-226	1.52	0.48	0.45	Filtered		ES
RD-22	Z2	Primary	02/15/06	Radium-228	2.86	0.41	0.586	Filtered		ES
RD-22	Z2	Primary	08/16/06	Radium-226	1.11	0.57	0.753	Filtered		ES
RD-22	Z2	Primary	08/16/06	Radium-228	2.7	0.3	0.503	Filtered		ES
RD-22	Z2	Primary	02/07/07	Radium-226	1.31	0.62	0.819	Filtered		ES
RD-22	Z2	Primary	02/07/07	Radium-228	2.07	0.77	0.334	Filtered		ES
RD-22	Z2	Primary	08/09/07	Radium-226	1.49	0.62	0.766	Filtered		ES
RD-22	Z2	Primary	08/09/07	Radium-228	2.38	0.28	0.483	Filtered		ES
RD-22	Z2	Primary	02/05/08	Radium-226	1.13	0.54	0.722	Filtered		ES
RD-22	Z2	Primary	02/05/08	Radium-228	2.88	0.32	0.38	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-V
RESULTS OF ANALYSES FOR SPECIFIC ISOTOPES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-22	Z2	Primary	02/05/08	Strontium-90	-0.129 U	0.23	0.474	Filtered		ES
RD-22	Z2	Primary	08/06/08	Radium-226	1.52	0.62	0.669	Filtered		ES
RD-22	Z2	Primary	08/06/08	Radium-228	2.62	0.49	0.553	Filtered		ES
RD-23		Primary	11/06/93	Americium-241	16.4 U	---	16.4	Filtered		LAS
RD-23		Primary	11/06/93	Radium-226	38.6 U	---	38.6	Filtered		LAS
RD-23		Primary	02/05/95	Uranium-235	4 U	27	40	Filtered		LAS
RD-23		Primary	08/03/95	Uranium-235	-2 U	28	44	Filtered		LAS
RD-23		Primary	02/16/96	Uranium-235	-9 U	15	28	Filtered		LAS
RD-23		Primary	08/18/96	Uranium-235	6 U	28	42	Filtered		LAS
RD-23		Primary	02/27/97	Uranium-235	-24 U	22	43	Filtered		LAS
RD-23		Primary	02/07/98	Radium-226	108 U	---	108	Filtered		TN
RD-23		Primary	02/07/98	Uranium-235	35.2 U	---	35.2	Filtered		TN
RD-23		Primary	02/08/99	Thorium-228	0.073	0.04	0.048	Filtered		TN
RD-23		Primary	02/08/99	Thorium-230	0.016 U	0.046	0.073	Filtered		TN
RD-23		Primary	02/08/99	Thorium-232	0.003 U	0.013	0.025	Filtered		TN
RD-23		Primary	02/08/99	Uranium-233/234	1.16	0.15	0.06	Filtered		TN
RD-23		Primary	02/08/99	Uranium-235	0.097	0.041	0.039	Filtered		TN
RD-23		Primary	02/08/99	Uranium-238	1.08	0.14	0.04	Filtered		TN
RD-23	Z2	Primary	11/03/04	Radium-226	1.23	0.4	0.415	Filtered		ES
RD-23	Z2	Primary	11/03/04	Radium-228	0.824 J	0.26	0.612	Filtered		ES
RD-23	Z2	Primary	02/14/05	Radium-226	0.512 J	0.35	0.479	Filtered		ES
RD-23	Z2	Primary	02/14/05	Radium-228	1.04	0.29	0.648	Filtered		ES
RD-23	Z3	Primary	09/12/05	Radium-226	0.759 J	0.47	0.675	Filtered		ES
RD-23	Z3	Primary	09/12/05	Radium-228	0.68 J	0.37	0.568	Filtered		ES
RD-23	Z3	Primary	02/17/06	Radium-226	1.24	0.55	0.709	Filtered		ES
RD-23	Z3	Primary	02/17/06	Radium-228	0.857 J	0.17	0.384	Filtered		ES
RD-23	Z3	Primary	08/17/06	Radium-226	0.687 J	0.46	0.62	Filtered		ES
RD-23	Z3	Primary	08/17/06	Radium-228	0.662 J	0.21	0.477	Filtered		ES
RD-23	Z3	Primary	02/07/07	Radium-226	1.06	0.57	0.757	Filtered		ES
RD-23	Z3	Primary	02/07/07	Radium-228	0.624 J	0.16	0.363	Filtered		ES
RD-23	Z3	Primary	02/07/07	Uranium-234	0.677 J	0.1	0.032	Filtered		ES
RD-23	Z3	Primary	02/07/07	Uranium-235	0.02 U	0.016	0.031	Filtered		ES
RD-23	Z3	Primary	02/07/07	Uranium-238	0.525 J	0.093	0.032	Filtered		ES
RD-23	Z3	Primary	08/09/07	Radium-226	1.16	0.61	0.707	Filtered		ES
RD-23	Z3	Primary	08/09/07	Radium-228	0.844 J	0.23	0.503	Filtered		ES
RD-23	Z3	Primary	02/06/08	Radium-226	1.8	0.68	0.873	Filtered		ES
RD-23	Z3	Primary	02/06/08	Radium-228	-0.091 U	0.13	0.381	Filtered		ES
RD-23	Z3	Primary	02/06/08	Strontium-90	0.107 U	0.29	0.53	Filtered		ES
RD-23	Z2	Primary	08/07/08	Radium-226	0.899 J	0.5	0.664	Filtered		ES
RD-23	Z2	Primary	08/07/08	Radium-228	0.669 J	0.24	0.546	Filtered		ES
RD-24		Primary	02/16/95	Uranium-235	-11 U	23	44	Filtered		LAS
RD-24		Primary	02/07/96	Uranium-235	-8 U	22	41	Filtered		LAS
RD-24		Primary	02/07/97	Uranium-235	8 U	30	46	Filtered		LAS
RD-24		Primary	02/18/98	Radium-226	107 U	---	107	Filtered		TN
RD-24		Primary	02/18/98	Uranium-235	34.6 U	---	34.6	Filtered		TN

See last page of table for notes and abbreviations.

TABLE E-V
RESULTS OF ANALYSES FOR SPECIFIC ISOTOPES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-24		Primary	05/05/98	Radium-226	182 U	---	182	Filtered		TN
RD-24		Primary	05/05/98	Uranium-235	56.9 U	---	56.9	Filtered		TN
RD-24		Primary	10/25/01	Uranium-235	0.2 U	0.1	5	Filtered		DL
RD-24		Split	11/14/03	Radium-226	1.15	0.338	0.255	Filtered		STL
RD-24		Split	11/14/03	Radium-228	2.93 J	0.884	0.778	Filtered		STL
RD-24		Split	11/14/03	Uranium-235	11.3 U	7.28	12.5	Filtered		STL
RD-24		Primary	11/14/03	Radium-226	0.654 J	0.075	0.029	Filtered		ES
RD-24		Primary	11/14/03	Radium-228	1.61	0.27	0.522	Filtered		ES
RD-24		Primary	02/23/04	Radium-226	0.423 J	0.065	0.034	Filtered		ES
RD-24		Primary	02/23/04	Radium-228	1.02	0.19	0.395	Filtered		ES
RD-24		Primary	08/26/04	Radium-226	0.686 J	0.067	0.024	Filtered		ES
RD-24		Primary	08/26/04	Radium-228	1.85	0.32	0.628	Filtered		ES
RD-24		Primary	02/24/05	Radium-226	0.802 J	0.37	0.49	Filtered		ES
RD-24		Primary	02/24/05	Radium-228	1.82	0.26	0.484	Filtered		ES
RD-24		Primary	09/06/05	Radium-226	0.893 J	0.48	0.67	Filtered		ES
RD-24		Primary	09/06/05	Radium-228	1.63	0.25	0.504	Filtered		ES
RD-24		Primary	02/15/06	Radium-226	0.453 U	0.49	0.784	Filtered		ES
RD-24		Primary	02/15/06	Radium-228	2.63	0.33	0.521	Filtered		ES
RD-24		Primary	08/10/06	Radium-226	0.315 U	0.53	0.912	Filtered		ES
RD-24		Primary	08/10/06	Radium-228	1.78	0.31	0.434	Filtered		ES
RD-24		Primary	05/24/07	Radium-226	0.667 U	0.48	0.725	Filtered		ES
RD-24		Primary	05/24/07	Radium-228	1.97	0.25	0.45	Filtered		ES
RD-24		Primary	08/08/07	Radium-226	1.3	0.58	0.696	Filtered		ES
RD-24		Primary	08/08/07	Radium-228	1.63	0.24	0.485	Filtered		ES
RD-24		Primary	02/13/08	Radium-226	0.565 U	0.51	0.771	Filtered		ES
RD-24		Primary	02/13/08	Radium-228	0.77 J	0.23	0.422	Filtered		ES
RD-24		Primary	02/13/08	Strontium-90	-0.173 U	0.24	0.543	Filtered		ES
RD-25		Primary	02/09/95	Uranium-233/234	7	0.69	0.1	Filtered		LAS
RD-25		Primary	02/09/95	Uranium-233/234	7	0.69	0.1	Unfiltered		LAS
RD-25		Primary	02/09/95	Uranium-235	-6 U	28	44	Filtered		LAS
RD-25		Primary	02/09/95	Uranium-235	0.43	0.15	0.058	Filtered		LAS
RD-25		Primary	02/09/95	Uranium-235	0.43	0.15	0.058	Unfiltered		LAS
RD-25		Primary	02/09/95	Uranium-238	6.35	0.65	0.087	Filtered		LAS
RD-25		Primary	02/09/95	Uranium-238	6.35	0.65	0.087	Unfiltered		LAS
RD-25		Primary	08/18/95	Uranium-235	-26 U	14	43	Filtered		LAS
RD-25		Primary	02/06/96	Uranium-235	-18 U	22	41	Filtered		LAS
RD-25		Primary	08/20/96	Uranium-235	1 U	27	42	Filtered		LAS
RD-25		Primary	02/07/97	Uranium-235	-21 U	28	51	Filtered		LAS
RD-25		Primary	08/21/97	Radium-226	40 U	130	200	Filtered		LAS
RD-25		Primary	08/21/97	Uranium-235	6 U	27	41	Filtered		LAS
RD-25		Primary	02/05/98	Radium-226	115 U	---	115	Filtered		TN
RD-25		Primary	02/05/98	Uranium-235	38.6 U	---	38.6	Filtered		TN
RD-25		Primary	08/18/98	Radium-226	283 U	---	283	Filtered		TN
RD-25		Primary	08/18/98	Uranium-235	72.8 U	---	72.8	Filtered		TN
RD-25		Primary	11/13/03	Radium-226	0.63 J	0.073	0.029	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-V
RESULTS OF ANALYSES FOR SPECIFIC ISOTOPES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-25		Primary	11/13/03	Radium-228	0.971 J	0.21	0.44	Filtered		ES
RD-25		Primary	02/23/04	Radium-226	0.443 J	0.064	0.034	Filtered		ES
RD-25		Primary	02/23/04	Radium-228	1.4	0.19	0.356	Filtered		ES
RD-25		Split	02/23/04	Radium-226	0.575 J	0.222	0.181	Filtered		STL
RD-25		Split	02/23/04	Radium-228	1.03 J	0.503	0.759	Filtered		STL
RD-27		Primary	02/05/96	Uranium-235	4 U	30	42	Filtered		LAS
RD-27		Primary	08/27/97	Radium-226	-70 U	130	210	Filtered		LAS
RD-27		Primary	08/27/97	Radium-226	-40 U	130	210	Unfiltered		LAS
RD-27		Primary	08/27/97	Uranium-235	5 U	27	41	Filtered		LAS
RD-27		Primary	08/27/97	Uranium-235	1 U	28	43	Unfiltered		LAS
RD-27		Split	11/14/03	Uranium-235	5.76 U	7	11.7	Filtered		STL
RD-27		Primary	02/23/04	Radium-226	0.904 J	0.1	0.038	Filtered		ES
RD-27		Primary	02/23/04	Radium-228	2.06	0.22	0.338	Filtered		ES
RD-27		Primary	08/10/04	Radium-226	1.36	0.15	0.055	Filtered		ES
RD-27		Primary	08/10/04	Radium-228	2.18	0.28	0.497	Filtered		ES
RD-27		Primary	02/17/05	Radium-226	1.27	0.41	0.481	Filtered		ES
RD-27		Primary	02/17/05	Radium-228	2.44	0.3	0.51	Filtered		ES
RD-27		Primary	02/17/05	Thorium-228	0.052 J	0.037	0.046	Filtered		ES
RD-27		Primary	02/17/05	Thorium-230	0.104	0.067	0.099	Filtered		ES
RD-27		Primary	02/17/05	Thorium-232	-0.004 U	0.015	0.028	Filtered		ES
RD-27		Primary	08/24/05	Radium-226	0.057 J	0.027	0.039	Filtered		ES
RD-27		Primary	08/24/05	Radium-228	2.9	0.37	0.61	Filtered		ES
RD-27		Primary	02/20/06	Radium-226	0.999 J	0.47	0.561	Filtered		ES
RD-27		Primary	02/20/06	Radium-228	2.83	0.29	0.49	Filtered		ES
RD-27		Primary	08/25/06	Radium-226	0.974 J	0.63	0.896	Filtered		ES
RD-27		Primary	08/25/06	Radium-228	2.29	0.33	0.482	Filtered		ES
RD-27		Primary	02/14/07	Radium-226	1.96	0.6	0.631	Filtered		ES
RD-27		Split	02/14/07	Radium-226	1.27	0.32	0.113	Filtered		STL
RD-27		Primary	02/14/07	Radium-228	2.4	0.54	0.367	Filtered		ES
RD-27		Split	02/14/07	Radium-228	2.89	0.52	0.532	Filtered		STL
RD-27		Primary	08/09/07	Radium-226	1.62	0.69	0.814	Filtered		ES
RD-27		Primary	08/09/07	Radium-228	2.52	0.34	0.6	Filtered		ES
RD-27		Primary	03/05/08	Radium-226	1.52	0.69	0.817	Filtered		ES
RD-27		Primary	03/05/08	Radium-228	2.5	0.33	0.35	Filtered		ES
RD-27		Primary	03/05/08	Strontium-90	0.007 U	0.24	0.473	Filtered		ES
RD-27		Primary	09/04/08	Americium-241	0.889 U	---	0.889	Filtered		ES
RD-27		Primary	09/04/08	Radium-226	2.11	0.73	0.665	Filtered		ES
RD-27		Primary	09/04/08	Radium-228	3.01	0.39	0.392	Filtered		ES
RD-28		Primary	02/09/95	Uranium-233/234	8.08	0.73	0.096	Filtered		LAS
RD-28		Primary	02/09/95	Uranium-233/234	8.08	0.73	0.096	Unfiltered		LAS
RD-28		Primary	02/09/95	Uranium-235	0.57	0.16	0.06	Filtered		LAS
RD-28		Primary	02/09/95	Uranium-235	7 U	32	48	Filtered		LAS
RD-28		Primary	02/09/95	Uranium-235	0.57	0.16	0.06	Unfiltered		LAS
RD-28		Primary	02/09/95	Uranium-238	7.29	0.68	0.072	Filtered		LAS
RD-28		Primary	02/09/95	Uranium-238	7.29	0.68	0.072	Unfiltered		LAS

See last page of table for notes and abbreviations.

TABLE E-V
RESULTS OF ANALYSES FOR SPECIFIC ISOTOPES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-28		Primary	08/18/95	Uranium-235	4 U	26	40	Filtered		LAS
RD-28		Primary	02/06/96	Uranium-235	0 U	19	30	Filtered		LAS
RD-28		Primary	08/20/96	Uranium-235	-23 U	22	40	Filtered		LAS
RD-28		Primary	02/06/97	Uranium-235	-11 U	30	43	Filtered		LAS
RD-28		Primary	08/28/97	Radium-226	10 U	130	210	Filtered		LAS
RD-28		Primary	08/28/97	Radium-226	50 U	140	210	Unfiltered		LAS
RD-28		Primary	08/28/97	Uranium-233/234	15.5	1.1	0.095	Filtered		LAS
RD-28		Primary	08/28/97	Uranium-235	0.86	0.2	0.063	Filtered		LAS
RD-28		Primary	08/28/97	Uranium-235	15 U	27	40	Filtered		LAS
RD-28		Primary	08/28/97	Uranium-235	6 U	29	43	Unfiltered		LAS
RD-28		Primary	08/28/97	Uranium-238	14.7	1.1	0.063	Filtered		LAS
RD-28		Primary	02/05/98	Radium-226	161 U	---	161	Filtered		TN
RD-28		Primary	02/05/98	Thorium-228	0.009 U	0.036	0.065	Filtered		TN
RD-28		Primary	02/05/98	Thorium-230	0.158 U	---	0.158	Filtered		TN
RD-28		Primary	02/05/98	Thorium-232	0.009 U	0.018	0.35	Filtered		TN
RD-28		Primary	02/05/98	Uranium-233/234	12.9	0.76	0.104	Filtered		TN
RD-28		Primary	02/05/98	Uranium-235	46.2 U	---	46.2	Filtered		TN
RD-28		Primary	02/05/98	Uranium-235	0.848	0.15	0.042	Filtered		TN
RD-28		Primary	02/05/98	Uranium-238	12	0.71	0.097	Filtered		TN
RD-28		Primary	08/18/98	Radium-226	184 U	---	184	Filtered		TN
RD-28		Primary	08/18/98	Uranium-235	66.9 U	---	66.9	Filtered		TN
RD-28		Primary	02/16/99	Thorium-228	0.014 U	0.017	0.03	Filtered		TN
RD-28		Primary	02/16/99	Thorium-230	0.061 U	0.041	0.069	Filtered		TN
RD-28		Primary	02/16/99	Thorium-232	0.013 U	---	0.013	Filtered		TN
RD-28		Primary	02/16/99	Uranium-233/234	12.1	0.83	0.119	Filtered		TN
RD-28		Primary	02/16/99	Uranium-235	0.741	0.16	0.058	Filtered		TN
RD-28		Primary	02/16/99	Uranium-238	11.6	0.8	0.11	Filtered		TN
RD-28		Primary	02/16/00	Thorium-228	0.039 U	0.11	0.212	Filtered		TN
RD-28		Primary	02/16/00	Thorium-230	0.421 B	0.21	0.233	Filtered		TR
RD-28		Primary	02/16/00	Thorium-232	0.066 U	0.079	0.101	Filtered		TR
RD-28		Primary	02/16/00	Uranium-233/234	8.9	0.81	0.191	Filtered		TR
RD-28		Primary	02/16/00	Uranium-235	0.562	0.19	0.123	Filtered		TR
RD-28		Primary	02/16/00	Uranium-238	8.7	0.8	0.163	Filtered		TR
RD-28		Primary	02/07/01	Thorium-228	0.027 U	0.08	0.14	Filtered		TR
RD-28		Primary	02/07/01	Thorium-230	0.053 U	0.066	0.081	Filtered		ES
RD-28		Primary	02/07/01	Thorium-232	0.007 U	0.013	0.051	Filtered		ES
RD-28		Primary	02/07/01	Uranium-233/234	9	0.4	0.056	Filtered		ES
RD-28		Primary	02/07/01	Uranium-235	0.485	0.073	0.021	Filtered		ES
RD-28		Primary	02/07/01	Uranium-238	8.2	0.37	0.053	Filtered		ES
RD-28		Primary	02/25/02	Thorium-228	0 U	1	1	Filtered		DL
RD-28		Primary	02/25/02	Thorium-230	0 U	1	1	Filtered		DL
RD-28		Primary	02/25/02	Thorium-232	0 U	1	1	Filtered		DL

See last page of table for notes and abbreviations.

TABLE E-V

RESULTS OF ANALYSES FOR SPECIFIC ISOTOPES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-28		Primary	02/25/02	Uranium-233/234	4.5	0.5	0.5	Filtered		DL
RD-28		Primary	02/25/02	Uranium-235	0.2 U	0.5	0.5	Filtered		DL
RD-28		Primary	02/25/02	Uranium-238	4.5	0.5	0.5	Filtered		DL
RD-28		Primary	02/24/03	Thorium-228	0.044 J	0.031	0.042	Filtered		ES
RD-28		Primary	02/24/03	Thorium-230	0.037 U	0.05	0.112	Filtered		ES
RD-28		Primary	02/24/03	Thorium-232	0.016 U	0.012	0.024	Filtered		ES
RD-28		Primary	02/24/03	Uranium-233/234	9.37	0.4	0.061	Filtered		ES
RD-28		Primary	02/24/03	Uranium-235	0.409	0.078	0.027	Filtered		ES
RD-28		Primary	02/24/03	Uranium-238	9.31	0.4	0.056	Filtered		ES
RD-28		Primary	11/14/03	Radium-226	0.659 J	0.076	0.029	Filtered		ES
RD-28		Primary	11/14/03	Radium-228	1.32	0.27	0.56	Filtered		ES
RD-28		Primary	02/23/04	Radium-226	0.485 J	0.08	0.044	Filtered		ES
RD-28		Primary	02/23/04	Radium-228	0.83 J	0.18	0.411	Filtered		ES
RD-28		Primary	02/23/04	Thorium-228	0.012 U	0.017	0.032	Filtered		ES
RD-28		Primary	02/23/04	Thorium-230	0.025 U	0.033	0.051	Filtered		ES
RD-28		Primary	02/23/04	Thorium-232	0 U	0.008	0.032	Filtered		ES
RD-28		Primary	02/23/04	Uranium-233/234	11.1	0.72	0.069	Filtered		ES
RD-28		Primary	02/23/04	Uranium-235	0.64 J	0.1	0.026	Filtered		ES
RD-28		Primary	02/23/04	Uranium-238	11.2	0.73	0.068	Filtered		ES
RD-28		Split	02/23/04	Radium-226	0.6 J	0.265	0.254	Filtered		STL
RD-28		Split	02/23/04	Radium-228	0.985 J	0.507	0.764	Filtered		STL
RD-28		Split	02/23/04	Thorium-228	0.109 U	0.328	0.846	Filtered		STL
RD-28		Split	02/23/04	Thorium-230	0.185 U	0.315	0.589	Filtered		STL
RD-28		Split	02/23/04	Thorium-232	-0.0441 U	0.04	0.623	Filtered		STL
RD-28		Split	02/23/04	Uranium-233/234	13.9	2.71	0.189	Filtered		STL
RD-28		Split	02/23/04	Uranium-235	0.534 J	0.282	0.0904	Filtered		STL
RD-28		Split	02/23/04	Uranium-238	11.2	2.25	0.16	Filtered		STL
RD-29		Primary	12/08/89	Radium-226	0.832	0.188	---	Filtered		UST
RD-29		Primary	12/08/89	Radium-226	0.844	0.205	---	Unfiltered		UST
RD-29		Primary	12/08/89	Radium-228	1.17	0.474	---	Filtered		UST
RD-29		Primary	12/08/89	Radium-228	1.61	0.592	---	Unfiltered		UST
RD-29		Primary	12/08/89	Total uranium alpha radioactivity	30.8	8.58	---	Filtered		UST
RD-29		Primary	12/08/89	Total uranium alpha radioactivity	22.2	6.2	---	Unfiltered		UST
RD-29		Primary	12/08/89	Uranium-233/234	15.6	1.61	---	Unfiltered		UST
RD-29		Primary	12/08/89	Uranium-235	0.626	0.142	---	Unfiltered		UST
RD-29		Primary	12/08/89	Uranium-238	14.1	1.46	---	Unfiltered		UST
RD-29		Primary	03/27/90	Radium-226	0.636	0.171	---	Unfiltered		UST
RD-29		Primary	03/27/90	Radium-228	0.816	0.414	---	Unfiltered		UST
RD-29		Primary	03/27/90	Uranium-233/234	15.7	2.49	---	Unfiltered		UST

See last page of table for notes and abbreviations.

TABLE E-V
RESULTS OF ANALYSES FOR SPECIFIC ISOTOPES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-29		Primary	03/27/90	Uranium-235	1.39	0.36	---	Unfiltered		UST
RD-29		Primary	03/27/90	Uranium-238	16.8	2.67	---	Unfiltered		UST
RD-29		Primary	03/05/91	Uranium-233/234	9.54	0.971	0.1	Filtered		UST
RD-29		Primary	03/05/91	Uranium-235	0.324	0.075	0.1	Filtered		IT
RD-29		Primary	03/05/91	Uranium-238	9.21	0.94	0.1	Filtered		IT
RD-29		Primary	03/03/92	Uranium-233/234	1.32	0.57	0.6	Unfiltered		IT
RD-29		Primary	03/03/92	Uranium-235	0.6 U	---	0.6	Unfiltered		CEP
RD-29		Primary	03/03/92	Uranium-238	1.44	0.58	0.6	Unfiltered		CEP
RD-29		Primary	05/09/01	Uranium-233/234	3.19	0.28	0.061	Filtered		CEP
RD-29		Primary	05/09/01	Uranium-235	0.18	0.072	0.046	Filtered		ES
RD-29		Primary	05/09/01	Uranium-238	3.14	0.27	0.061	Filtered		ES
RD-29		Primary	05/03/02	Uranium-233/234	9.74	0.3	0.2	Filtered		DL
RD-29		Primary	05/03/02	Uranium-235	0.51	0.11	0.16	Filtered		DL
RD-29		Primary	05/03/02	Uranium-238	9.23	0.31	0.26	Filtered		DL
RD-29		Primary	05/13/03	Uranium-233/234	8.74	0.55	0.049	Filtered		ES
RD-29		Primary	05/13/03	Uranium-235	0.366	0.069	0.021	Filtered		ES
RD-29		Primary	05/13/03	Uranium-238	8.21	0.52	0.047	Filtered		ES
RD-29		Primary	02/24/04	Radium-226	0.397 J	0.067	0.039	Filtered		ES
RD-29		Primary	02/24/04	Radium-228	0.445 J	0.16	0.381	Filtered		ES
RD-29		Primary	02/24/04	Uranium-233/234	9.44	0.62	0.064	Filtered		ES
RD-29		Primary	02/24/04	Uranium-235	0.518 J	0.085	0.026	Filtered		ES
RD-29		Primary	02/24/04	Uranium-238	9.18	0.6	0.061	Filtered		ES
RD-29		Primary	08/09/04	Radium-226	0.541 J	0.091	0.056	Filtered		ES
RD-29		Primary	08/09/04	Radium-228	0.591 J	0.18	0.435	Filtered		ES
RD-29		Primary	08/09/04	Uranium-233/234	9.7	0.78	0.097	Filtered		ES
RD-29		Primary	08/09/04	Uranium-235	0.429 J	0.12	0.059	Filtered		ES
RD-29		Primary	08/09/04	Uranium-238	9.11	0.75	0.091	Filtered		ES
RD-29		Primary	02/24/05	Radium-226	0.47 J	0.27	0.365	Filtered		ES
RD-29		Primary	02/24/05	Radium-228	0.158 U	0.2	0.528	Filtered		ES
RD-29		Primary	02/24/05	Uranium-233/234	3.16	0.26	0.038	Filtered		ES
RD-29		Primary	02/24/05	Uranium-235	0.134 J	0.042	0.026	Filtered		ES
RD-29		Primary	02/24/05	Uranium-238	2.9	0.25	0.035	Filtered		ES
RD-29		Primary	08/25/05	Radium-226	0.273 U	0.41	0.701	Filtered		ES
RD-29		Primary	08/25/05	Radium-228	0.728 J	0.24	0.58	Filtered		ES
RD-29		Primary	02/16/06	Radium-226	-0.014 U	0.35	0.704	Filtered		ES
RD-29		Primary	02/16/06	Radium-228	0.771 J	0.24	0.512	Filtered		ES
RD-29		Primary	02/16/06	Uranium-233/234	6.92	0.49	0.056	Filtered		ES
RD-29		Primary	02/16/06	Uranium-235	0.318 J	0.074	0.027	Filtered		ES
RD-29		Primary	02/16/06	Uranium-238	6.5	0.46	0.054	Filtered		ES
RD-29		Primary	08/11/06	Radium-226	0.263 U	0.44	0.774	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-V
RESULTS OF ANALYSES FOR SPECIFIC ISOTOPES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-29		Primary	08/11/06	Radium-228	0.078 U	0.36	0.51	Filtered		ES
RD-29		Primary	08/11/06	Uranium-233/234	8.26	0.59	0.064	Filtered		ES
RD-29		Primary	08/11/06	Uranium-235	0.393 J	0.087	0.032	Filtered		ES
RD-29		Primary	08/11/06	Uranium-238	7.86	0.57	0.059	Filtered		ES
RD-29		Primary	02/07/07	Radium-226	0.487 U	0.45	0.717	Filtered		ES
RD-29		Primary	02/07/07	Radium-228	0.6 J	0.28	0.353	Filtered		ES
RD-29		Primary	02/07/07	Uranium-234	8.96	1	0.204	Filtered		ES
RD-29		Primary	02/07/07	Uranium-235	0.48 J	0.17	0.131	Filtered		ES
RD-29		Primary	02/07/07	Uranium-238	8.94	1	0.174	Filtered		ES
RD-29		Primary	08/08/07	Radium-226	0.307 U	0.44	0.752	Filtered		ES
RD-29		Primary	08/08/07	Radium-228	1.07	0.22	0.478	Filtered		ES
RD-29		Primary	08/08/07	Uranium-233/234	10.8	0.69	0.058	Filtered		ES
RD-29		Primary	08/08/07	Uranium-235	0.45 J	0.074	0.022	Filtered		ES
RD-29		Primary	08/08/07	Uranium-238	9.82	0.63	0.054	Filtered		ES
RD-29		Primary	02/05/08	Radium-226	0.039 U	0.4	0.792	Filtered		ES
RD-29		Primary	02/05/08	Radium-228	0.556 J	0.14	0.379	Filtered		ES
RD-29		Primary	02/05/08	Strontium-90	-0.187 U	0.22	0.485	Filtered		ES
RD-29		Primary	02/05/08	Uranium-234	10.9	0.73	0.072	Filtered		ES
RD-29		Primary	02/05/08	Uranium-235	0.528 J	0.1	0.03	Filtered		ES
RD-29		Primary	02/05/08	Uranium-238	10.6	0.72	0.066	Filtered		ES
RD-29		Primary	08/11/08	Radium-226	-0.023 U	0.37	0.728	Filtered		ES
RD-29		Primary	08/11/08	Radium-228	0.69 J	0.63	0.52	Filtered		ES
RD-29		Primary	08/11/08	Uranium-234	8.05	0.92	0.123	Filtered		ES
RD-29		Primary	08/11/08	Uranium-235	0.435 J	0.15	0.099	Filtered		ES
RD-29		Primary	08/11/08	Uranium-238	7.87	0.9	0.114	Filtered		ES
RD-30		Primary	02/08/95	Uranium-235	10 U	36	54	Filtered		LAS
RD-30		Primary	08/19/95	Uranium-235	-5 U	31	52	Filtered		LAS
RD-30		Primary	02/28/96	Uranium-235	-5 U	28	43	Filtered		LAS
RD-30		Primary	08/20/96	Uranium-233/234	5.63	0.61	0.11	Filtered		ES
RD-30		Primary	08/20/96	Uranium-235	0.49	0.16	0.078	Filtered		LAS
RD-30		Primary	08/20/96	Uranium-235	-2 U	27	47	Filtered		LAS
RD-30		Primary	08/20/96	Uranium-238	5.54	0.6	0.11	Filtered		LAS
RD-30		Primary	02/25/97	Uranium-235	-46 U	24	60	Filtered		LAS
RD-30		Primary	08/27/97	Radium-226	-10 U	130	210	Filtered		LAS
RD-30		Primary	08/27/97	Radium-226	-3 U	75	110	Unfiltered		LAS
RD-30		Primary	08/27/97	Uranium-235	7 U	29	44	Filtered		LAS
RD-30		Primary	08/27/97	Uranium-235	7 U	20	30	Unfiltered		LAS
RD-30		Primary	05/28/98	Radium-226	111 U	---	111	Filtered		TN
RD-30		Primary	05/28/98	Uranium-235	34.2 U	---	34.2	Filtered		TN
RD-30		Primary	08/05/98	Radium-226	170 U	---	170	Filtered		TN
RD-30		Primary	08/05/98	Uranium-235	52.8 U	---	52.8	Filtered		TN
RD-30		Primary	11/14/03	Radium-226	0.235 J	0.045	0.025	Filtered		ES
RD-30		Primary	11/14/03	Radium-228	0.261 U	0.2	0.515	Filtered		ES
RD-30		Primary	02/24/04	Radium-226	0.424 J	0.072	0.037	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-V
RESULTS OF ANALYSES FOR SPECIFIC ISOTOPES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-30		Primary	02/24/04	Radium-228	0.35 U	0.14	0.358	Filtered		ES
RD-30		Primary	08/10/04	Radium-226	0.429 J	0.081	0.058	Filtered		ES
RD-30		Primary	08/10/04	Radium-228	0.368 U	0.19	0.497	Filtered		ES
RD-30		Primary	08/29/05	Radium-226	0.728 J	0.42	0.624	Filtered		ES
RD-30		Split	08/29/05	Radium-226	0.401 J	0.16	0.145	Filtered		STL
RD-30		Primary	08/29/05	Radium-228	0.363 U	0.26	0.677	Filtered		ES
RD-30		Split	08/29/05	Radium-228	1.09	0.34	0.34	Filtered		STL
RD-30		Primary	02/17/06	Radium-226	0.474 U	0.42	0.677	Filtered		ES
RD-30		Primary	02/17/06	Radium-228	0.228 U	0.81	0.396	Filtered		ES
RD-30		Primary	08/09/06	Radium-226	0.318 U	0.46	0.778	Filtered		ES
RD-30		Split	08/09/06	Radium-226	0.333 J	0.17	0.216	Filtered		STL
RD-30		Primary	08/09/06	Radium-228	0.568 J	0.17	0.408	Filtered		ES
RD-30		Split	08/09/06	Radium-228	0.7 J	0.35	0.673	Filtered		STL
RD-30		Primary	05/24/07	Radium-226	0.129 U	0.32	0.582	Filtered		ES
RD-30		Primary	05/24/07	Radium-228	0.684 J	0.15	0.396	Filtered		ES
RD-30		Primary	08/21/07	Radium-226	0.788 J	0.46	0.579	Filtered		ES
RD-30		Primary	08/21/07	Radium-228	0.248 U	0.22	0.378	Filtered		ES
RD-30		Primary	02/06/08	Radium-226	0.314 U	0.5	0.859	Filtered		ES
RD-30		Primary	02/06/08	Radium-228	-0.116 U	0.13	0.375	Filtered		ES
RD-30		Primary	02/06/08	Strontium-90	-0.088 U	0.27	0.562	Filtered		ES
RD-30		Primary	08/13/08	Americium-241	0.966 U	---	0.966	Filtered		ES
RD-30		Primary	08/13/08	Radium-226	0.161 U	0.43	0.78	Filtered		ES
RD-30		Primary	08/13/08	Radium-228	0.817 J	0.43	0.531	Filtered		ES
RD-33A		Primary	05/10/94	Radium-226	-7 U	60	81	Filtered		LAS
RD-33A		Primary	05/10/94	Radium-226	-230 U	100	150	Unfiltered		LAS
RD-33A		Primary	05/10/94	Strontium-90	-0.07 U	0.64	0.8	Filtered		LAS
RD-33A		Primary	05/10/94	Uranium-235	0 U	18	26	Filtered		LAS
RD-33A		Primary	05/10/94	Uranium-235	17 U	25	35	Unfiltered		LAS
RD-33A		Primary	02/07/95	Uranium-235	-5 U	28	44	Filtered		LAS
RD-33A		Primary	08/09/95	Uranium-235	-21.9 U	7.3	43	Filtered		LAS
RD-33A		Primary	02/19/96	Uranium-235	3 U	28	42	Filtered		LAS
RD-33A		Primary	08/23/96	Uranium-235	-21 U	25	47	Filtered		LAS
RD-33A		Primary	02/25/97	Uranium-235	-14 U	24	43	Filtered		LAS
RD-33A		Primary	08/27/97	Radium-226	-30 U	120	190	Filtered		LAS
RD-33A		Primary	08/27/97	Radium-226	60 U	120	180	Unfiltered		LAS
RD-33A		Primary	08/27/97	Uranium-235	24 U	28	39	Filtered		LAS
RD-33A		Primary	08/27/97	Uranium-235	20 U	30	44	Unfiltered		LAS
RD-33A		Primary	05/27/98	Radium-226	218 U	---	218	Filtered		TN
RD-33A		Primary	05/27/98	Uranium-235	80.6 U	---	80.6	Filtered		TN
RD-33A		Primary	08/17/98	Radium-226	171 U	---	171	Filtered		TN
RD-33A		Primary	08/17/98	Uranium-235	63 U	---	63	Filtered		TN
RD-33A	Z2	Primary	11/15/04	Radium-226	0.247 U	0.26	0.41	Filtered		ES
RD-33A	Z2	Primary	11/15/04	Radium-228	1.65	0.29	0.54	Filtered		ES
RD-33A	Z3	Primary	02/17/05	Radium-226	0.78 J	0.47	0.657	Filtered		ES
RD-33A	Z3	Primary	02/17/05	Radium-228	2.19	0.32	0.584	Filtered		ES
RD-33A	Z3	Primary	09/01/05	Radium-226	0.604 J	0.3	0.373	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-V
RESULTS OF ANALYSES FOR SPECIFIC ISOTOPES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-33A	Z3	Primary	09/01/05	Radium-228	2.69	0.42	0.8	Filtered		ES
RD-33A	Z2	Primary	02/17/06	Radium-226	1.29	0.55	0.649	Filtered		ES
RD-33A	Z2	Primary	02/17/06	Radium-228	1.89	0.25	0.447	Filtered		ES
RD-33A	Z3	Primary	08/18/06	Radium-226	0.549 U	0.51	0.803	Filtered		ES
RD-33A	Z3	Primary	08/18/06	Radium-228	2.16	0.26	0.461	Filtered		ES
RD-33A	Z2	Primary	02/08/07	Radium-226	0.539 U	0.46	0.719	Filtered		ES
RD-33A	Z2	Primary	02/08/07	Radium-228	1.14	0.48	0.39	Filtered		ES
RD-33A	Z2	Primary	08/13/07	Radium-226	0.262 U	0.34	0.568	Filtered		ES
RD-33A	Z2	Primary	08/13/07	Radium-228	1.93	0.24	0.43	Filtered		ES
RD-33A	Z2	Primary	02/07/08	Radium-226	0.837 J	0.5	0.716	Filtered		ES
RD-33A	Z2	Primary	02/07/08	Radium-228	5.98	0.43	0.392	Filtered		ES
RD-33A	Z2	Primary	02/07/08	Strontium-90	0.043 U	0.24	0.439	Filtered		ES
RD-33A	Z2	Primary	08/08/08	Radium-226	0.963 J	0.51	0.64	Filtered		ES
RD-33A	Z2	Primary	08/08/08	Radium-228	1.95	0.34	0.55	Filtered		ES
RD-33B		Primary	05/10/94	Radium-226	-30 U	100	150	Filtered		LAS
RD-33B		Primary	05/10/94	Radium-226	0 U	110	150	Unfiltered		LAS
RD-33B		Primary	05/10/94	Strontium-90	0.06 U	0.69	0.84	Filtered		LAS
RD-33B		Primary	05/10/94	Uranium-235	-7 U	23	33	Filtered		LAS
RD-33B		Primary	05/10/94	Uranium-235	-11 U	19	34	Unfiltered		LAS
RD-33B		Primary	02/07/95	Uranium-235	-8 U	28	44	Filtered		LAS
RD-33B		Primary	08/09/95	Uranium-235	13 U	26	38	Filtered		LAS
RD-33B		Primary	02/19/96	Uranium-235	-2 U	27	42	Filtered		LAS
RD-33B		Primary	08/23/96	Uranium-235	-5 U	24	42	Filtered		LAS
RD-33B		Primary	02/25/97	Uranium-235	-2 U	26	40	Filtered		LAS
RD-33B		Primary	08/22/97	Radium-226	-40 U	110	170	Filtered		LAS
RD-33B		Primary	08/22/97	Uranium-235	0 U	26	40	Filtered		LAS
RD-33B		Primary	05/27/98	Radium-226	92.8 U	---	92.8	Filtered		TN
RD-33B		Primary	05/27/98	Uranium-235	28 U	---	28	Filtered		TN
RD-33B		Primary	08/17/98	Radium-226	205 U	---	205	Filtered		TN
RD-33B		Primary	08/17/98	Uranium-235	72.2 U	---	72.2	Filtered		TN
RD-33B		Primary	11/04/04	Radium-226	1.38	0.41	0.403	Filtered		ES
RD-33B		Primary	11/04/04	Radium-228	1.13	0.29	0.638	Filtered		ES
RD-33B		Primary	02/17/05	Radium-226	1.05	0.32	0.255	Filtered		ES
RD-33B		Split	02/17/05	Radium-226	1.34	0.31	0.0766	Filtered		STL
RD-33B		Primary	02/17/05	Radium-228	1.38	0.32	0.606	Filtered		ES
RD-33B		Split	02/17/05	Radium-228	2.47	0.6	0.385	Filtered		STL
RD-33B		Primary	08/22/05	Radium-226	0.041 J	0.026	0.039	Filtered		ES
RD-33B		Primary	08/22/05	Radium-228	1.26	0.25	0.527	Filtered		ES
RD-33B		Split	08/22/05	Radium-226	0.949 J	0.26	0.155	Filtered		STL
RD-33B		Split	08/22/05	Radium-228	1.89	0.5	0.383	Filtered		STL
RD-33B		Primary	02/16/06	Radium-226	0.805 J	0.53	0.78	Filtered		ES
RD-33B		Primary	02/16/06	Radium-228	1.41	0.24	0.503	Filtered		ES
RD-33B		Primary	08/09/06	Radium-226	1.18	0.57	0.723	Filtered		ES
RD-33B		Split	08/09/06	Radium-226	0.876 J	0.25	0.181	Filtered		STL
RD-33B		Primary	08/09/06	Radium-228	1.4	0.22	0.444	Filtered		ES
RD-33B		Split	08/09/06	Radium-228	2.18	0.43	0.464	Filtered		STL

See last page of table for notes and abbreviations.

TABLE E-V
RESULTS OF ANALYSES FOR SPECIFIC ISOTOPES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-33B		Primary	02/07/07	Radium-226	1.37	0.62	0.789	Filtered		ES
RD-33B		Primary	02/07/07	Radium-228	1.32	0.43	0.34	Filtered		ES
RD-33B		Primary	08/14/07	Radium-226	0.772 J	0.47	0.658	Filtered		ES
RD-33B		Primary	08/14/07	Radium-228	0.978 J	0.23	0.494	Filtered		ES
RD-33B		Primary	02/13/08	Radium-226	0.056 U	0.46	0.872	Filtered		ES
RD-33B		Primary	02/13/08	Radium-228	1.18	0.25	0.394	Filtered		ES
RD-33B		Primary	02/13/08	Strontium-90	0.014 U	0.3	0.599	Filtered		ES
RD-33B		Primary	08/07/08	Radium-226	0.575 J	0.33	0.419	Filtered		ES
RD-33B		Primary	08/07/08	Radium-228	0.844 J	0.24	0.51	Filtered		ES
RD-33C		Primary	05/09/94	Radium-226	-60 U	100	140	Filtered		LAS
RD-33C		Primary	05/09/94	Radium-226	10 U	110	140	Unfiltered		LAS
RD-33C		Primary	05/09/94	Strontium-90	-0.04 U	0.8	0.99	Filtered		LAS
RD-33C		Primary	05/09/94	Uranium-235	-2 U	24	35	Filtered		LAS
RD-33C		Primary	05/09/94	Uranium-235	-18 U	15	34	Unfiltered		LAS
RD-33C		Primary	02/07/95	Uranium-235	-17 U	28	53	Filtered		LAS
RD-33C		Primary	08/09/95	Uranium-235	-3 U	26	40	Filtered		LAS
RD-33C		Primary	02/19/96	Uranium-235	-11 U	16	28	Filtered		LAS
RD-33C		Primary	08/22/96	Uranium-235	-2 U	29	46	Filtered		LAS
RD-33C		Primary	02/25/97	Uranium-235	-24 U	16	45	Filtered		LAS
RD-33C		Primary	08/21/97	Radium-226	40 U	130	200	Filtered		LAS
RD-33C		Primary	08/21/97	Uranium-235	-7 U	27	41	Filtered		LAS
RD-33C		Primary	05/27/98	Radium-226	193 U	---	193	Filtered		TN
RD-33C		Primary	05/27/98	Uranium-235	60.4 U	---	60.4	Filtered		TN
RD-33C		Primary	08/17/98	Radium-226	332 U	---	332	Filtered		TN
RD-33C		Primary	08/17/98	Uranium-235	116 U	---	116	Filtered		TN
RD-33C		Primary	11/04/04	Radium-226	1.04	0.37	0.411	Filtered		ES
RD-33C		Split	11/04/04	Radium-226	1.63	0.36	0.0752	Filtered		STL
RD-33C		Primary	11/04/04	Radium-228	2.08	0.31	0.578	Filtered		ES
RD-33C		Split	11/04/04	Radium-228	2.57	0.62	0.359	Filtered		STL
RD-33C		Primary	02/16/05	Radium-226	1.57	0.43	0.453	Filtered		ES
RD-33C		Primary	02/16/05	Radium-228	2.09	0.3	0.56	Filtered		ES
RD-33C		Primary	08/22/05	Radium-226	0.036 J	0.021	0.028	Filtered		ES
RD-33C		Primary	08/22/05	Radium-228	2.87	0.31	0.493	Filtered		ES
RD-33C		Primary	02/16/06	Radium-226	1.43	0.66	0.828	Filtered		ES
RD-33C		Primary	02/16/06	Radium-228	2.06	0.28	0.518	Filtered		ES
RD-33C		Primary	08/08/06	Radium-226	1.49	0.57	0.72	Filtered		ES
RD-33C		Primary	08/08/06	Radium-228	2.02	0.25	0.445	Filtered		ES
RD-33C		Primary	02/06/07	Radium-226	1.67	0.55	0.575	Filtered		ES
RD-33C		Primary	02/06/07	Radium-228	1.61	0.88	0.387	Filtered		ES
RD-33C		Primary	08/07/07	Radium-226	1.93	0.66	0.614	Filtered		ES
RD-33C		Primary	08/07/07	Radium-228	2.13	0.25	0.431	Filtered		ES
RD-33C		Primary	02/12/08	Radium-226	1.33	0.65	0.802	Filtered		ES
RD-33C		Primary	02/12/08	Radium-228	1.66	0.26	0.39	Filtered		ES
RD-33C		Primary	02/12/08	Strontium-90	-0.065 U	0.3	0.6	Filtered		ES
RD-33C		Primary	08/07/08	Radium-226	1.6	0.61	0.616	Filtered		ES
RD-33C		Primary	08/07/08	Radium-228	2.31	0.34	0.426	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-V
RESULTS OF ANALYSES FOR SPECIFIC ISOTOPES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-34A		Primary	09/13/92	Radium-226	1.6	0.3	0.6	Filtered		CEP
RD-34A		Primary	09/13/92	Radium-228	1 U	---	1	Filtered		CEP
RD-34A		Primary	09/13/92	Uranium-233/234	15.4	4.4	0.6	Unfiltered		CEP
RD-34A		Primary	09/13/92	Uranium-235	0.9	0.5	0.6	Unfiltered		CEP
RD-34A		Primary	09/13/92	Uranium-238	19.3	4.9	0.6	Unfiltered		CEP
RD-34A		Primary	12/05/92	Thorium-228	0.6 U	---	0.6	Filtered		CEP
RD-34A		Primary	12/05/92	Thorium-230	0.6 U	---	0.6	Filtered		CEP
RD-34A		Primary	12/05/92	Thorium-232	0.6 U	---	0.6	Filtered		CEP
RD-34A		Primary	12/05/92	Uranium-233/234	1.22	0.92	0.6	Unfiltered		CEP
RD-34A		Primary	12/05/92	Uranium-235	0.6 U	---	0.6	Unfiltered		CEP
RD-34A		Primary	12/05/92	Uranium-238	1.42	0.44	0.6	Unfiltered		CEP
RD-34A		Primary	03/09/93	Thorium-228	0.6 U	---	0.6	Filtered		CEP
RD-34A		Primary	03/09/93	Thorium-230	0.6 U	---	0.6	Filtered		CEP
RD-34A		Primary	03/09/93	Thorium-232	0.6 U	---	0.6	Filtered		CEP
RD-34A		Primary	03/09/93	Uranium-233/234	12.1	4.9	0.6	Filtered		CEP
RD-34A		Primary	03/09/93	Uranium-235	0.6 U	---	0.6	Filtered		CEP
RD-34A		Primary	03/09/93	Uranium-238	10.8	5.4	0.6	Filtered		CEP
RD-34A		Primary	06/22/93	Uranium-233/234	0.9	0.2	0.6	Filtered		CEP
RD-34A		Primary	06/22/93	Uranium-235	0.3 U	0.3	0.6	Filtered		CEP
RD-34A		Primary	06/22/93	Uranium-238	1.3	0.2	0.6	Filtered		CEP
RD-34A		Primary	08/24/93	Uranium-233/234	4.6	0.6	0.6	Filtered		CEP
RD-34A		Primary	08/24/93	Uranium-233/234	10.3	1.6	0.6	Filtered		LAS
RD-34A		Primary	08/24/93	Uranium-235	0.78	0.39	0.13	Filtered		LAS
RD-34A		Primary	08/24/93	Uranium-235	0.2 U	0.1	0.6	Filtered		CEP
RD-34A		Primary	08/24/93	Uranium-238	4.9	0.7	0.6	Filtered		CEP
RD-34A		Primary	08/24/93	Uranium-238	11.7	1.8	0.2	Filtered		LAS
RD-34A		Primary	11/18/93	Americium-241	15.7 U	---	15.7	Filtered		LAS
RD-34A		Primary	11/18/93	Radium-226	79.731	57.96	---	Filtered		LAS
RD-34A		Primary	11/18/93	Thorium-228	-0.12 U	0.22	0.34	Filtered		LAS
RD-34A		Primary	11/18/93	Thorium-230	0.76	0.37	0.21	Filtered		LAS
RD-34A		Primary	11/18/93	Thorium-232	0.33	0.25	0.19	Filtered		LAS
RD-34A		Primary	11/18/93	Uranium-233/234	10.3	1.6	0.2	Filtered		CEP
RD-34A		Primary	11/18/93	Uranium-235	0.78	0.39	0.6	Filtered		LAS
RD-34A		Primary	11/18/93	Uranium-238	11.7	1.8	0.6	Filtered		LAS
RD-34A		Primary	05/09/94	Radium-226	40 U	120	170	Filtered		LAS
RD-34A		Primary	05/09/94	Radium-226	100 U	130	180	Unfiltered		LAS
RD-34A		Primary	05/09/94	Strontium-90	-0.28 U	0.63	0.8	Filtered		LAS
RD-34A		Primary	05/09/94	Uranium-235	-23 U	25	46	Filtered		LAS
RD-34A		Primary	05/09/94	Uranium-235	-12 U	15	51	Unfiltered		LAS
RD-34A		Primary	11/09/94	Technetium-99	1.3 U	1.1	1.8	Unfiltered		LAS
RD-34A		Primary	02/07/95	Uranium-235	2 U	26	46	Filtered		LAS
RD-34A		Primary	08/09/95	Uranium-235	10 U	26	39	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-V
RESULTS OF ANALYSES FOR SPECIFIC ISOTOPES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-34A		Primary	02/19/96	Uranium-235	-14.9 U	7.2	45	Filtered		LAS
RD-34A		Primary	08/18/96	Uranium-235	9 U	31	48	Filtered		LAS
RD-34A		Primary	02/07/97	Uranium-235	29 U	29	45	Filtered		LAS
RD-34A		Primary	05/27/98	Radium-226	209 U	---	209	Filtered		TN
RD-34A		Primary	05/27/98	Thorium-228	0.04 U	---	0.04	Filtered		TN
RD-34A		Primary	05/27/98	Thorium-230	0.08 U	---	0.08	Filtered		TN
RD-34A		Primary	05/27/98	Thorium-232	0.01 U	0.02	0.04	Filtered		TN
RD-34A		Primary	05/27/98	Uranium-233/234	9.6	0.89	0.15	Filtered		TN
RD-34A		Primary	05/27/98	Uranium-235	82.7 U	---	82.7	Filtered		TN
RD-34A		Primary	05/27/98	Uranium-235	0.57	0.18	0.1	Filtered		TN
RD-34A		Primary	05/27/98	Uranium-238	10.5	0.95	0.14	Filtered		TN
RD-34A		Primary	08/18/98	Radium-226	221 U	---	221	Filtered		TN
RD-34A		Primary	08/18/98	Uranium-235	69 U	---	69	Filtered		TN
RD-34A		Primary	05/09/01	Thorium-228	0.05 U	0.17	0.32	Filtered		TN
RD-34A		Primary	05/09/01	Thorium-230	0.05 U	0.13	0.185	Filtered		ES
RD-34A		Primary	05/09/01	Thorium-232	0.034 U	0.034	0.128	Filtered		ES
RD-34A		Primary	05/09/01	Uranium-233/234	10	0.54	0.091	Filtered		ES
RD-34A		Primary	05/09/01	Uranium-235	0.523	0.096	0.041	Filtered		ES
RD-34A		Primary	05/09/01	Uranium-238	10.6	0.56	0.072	Filtered		ES
RD-34A		Primary	05/16/03	Thorium-228	0.017 U	0.058	0.111	Filtered		ES
RD-34A		Primary	05/16/03	Thorium-230	0.058 U	0.058	0.126	Filtered		ES
RD-34A		Primary	05/16/03	Thorium-232	0.006 U	0.023	0.045	Filtered		ES
RD-34A		Primary	05/16/03	Uranium-233/234	8.23	0.62	0.09	Filtered		ES
RD-34A		Primary	05/16/03	Uranium-235	0.362	0.098	0.057	Filtered		ES
RD-34A		Primary	05/16/03	Uranium-238	8.52	0.64	0.079	Filtered		ES
RD-34A		Primary	05/17/04	Radium-226	0.397 J	0.06	0.035	Filtered		ES
RD-34A		Primary	05/17/04	Radium-228	0.891 J	0.2	0.463	Filtered		ES
RD-34A		Primary	05/17/04	Thorium-228	0.02 U	0.026	0.04	Filtered		ES
RD-34A		Primary	05/17/04	Thorium-230	-0.02 U	0.046	0.102	Filtered		ES
RD-34A		Primary	05/17/04	Thorium-232	-0.013 U	0.007	0.031	Filtered		ES
RD-34A		Primary	05/17/04	Uranium-233/234	7.82	0.55	0.067	Filtered		ES
RD-34A		Primary	05/17/04	Uranium-235	0.433 J	0.086	0.031	Filtered		ES
RD-34A		Primary	05/17/04	Uranium-238	7.79	0.55	0.062	Filtered		ES
RD-34A		Primary	08/09/04	Radium-226	0.284 J	0.068	0.058	Filtered		ES
RD-34A		Primary	08/09/04	Radium-228	0.726 J	0.18	0.421	Filtered		ES
RD-34A		Primary	08/09/04	Uranium-233/234	7.16	0.64	0.101	Filtered		ES
RD-34A		Primary	08/09/04	Uranium-235	0.366 J	0.12	0.065	Filtered		ES
RD-34A		Primary	08/09/04	Uranium-238	7.84	0.69	0.086	Filtered		ES
RD-34A		Primary	02/17/05	Radium-226	0.231 U	0.32	0.535	Filtered		ES
RD-34A		Primary	02/17/05	Radium-228	0.24 U	0.2	0.547	Filtered		ES
RD-34A		Primary	02/17/05	Thorium-228	0.011 U	0.021	0.034	Filtered		ES
RD-34A		Primary	02/17/05	Thorium-230	0.214	0.08	0.097	Filtered		ES
RD-34A		Primary	02/17/05	Thorium-232	0.018 U	0.021	0.034	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-V
RESULTS OF ANALYSES FOR SPECIFIC ISOTOPES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-34A		Primary	02/17/05	Uranium-233/234	8.18	0.58	0.068	Filtered		ES
RD-34A		Primary	02/17/05	Uranium-235	0.401 J	0.086	0.032	Filtered		ES
RD-34A		Primary	02/17/05	Uranium-238	8.47	0.6	0.064	Filtered		ES
RD-34A		Primary	08/25/05	Radium-226	0.096 U	0.43	0.794	Filtered		ES
RD-34A		Primary	08/25/05	Radium-228	1.34	0.27	0.571	Filtered		ES
RD-34A		Primary	08/25/05	Uranium-233/234	9.06	0.61	0.069	Filtered		ES
RD-34A		Primary	08/25/05	Uranium-235	0.519 J	0.096	0.029	Filtered		ES
RD-34A		Primary	08/25/05	Uranium-238	9.34	0.63	0.064	Filtered		ES
RD-34A		Primary	02/21/06	Radium-226	0.277 U	0.39	0.666	Filtered		ES
RD-34A		Primary	02/21/06	Radium-228	-0.103 U	0.53	0.422	Filtered		ES
RD-34A		Primary	02/21/06	Thorium-228	0.01 U	0.026	0.046	Filtered		ES
RD-34A		Primary	02/21/06	Thorium-230	0.003 U	0.051	0.1	Filtered		ES
RD-34A		Primary	02/21/06	Thorium-232	0.003 U	0.019	0.031	Filtered		ES
RD-34A		Primary	02/21/06	Uranium-233/234	8.82	0.57	0.054	Filtered		ES
RD-34A		Primary	02/21/06	Uranium-235	0.418 J	0.074	0.023	Filtered		ES
RD-34A		Primary	02/21/06	Uranium-238	9	0.58	0.05	Filtered		ES
RD-34A		Primary	11/16/06	Radium-226	0.801 J	0.52	0.75	Filtered		ES
RD-34A		Primary	11/16/06	Radium-228	0.859 J	0.22	0.499	Filtered		ES
RD-34A		Primary	11/16/06	Uranium-233/234	11	0.73	0.074	Filtered		ES
RD-34A		Primary	11/16/06	Uranium-235	0.628 BJ	0.1	0.029	Filtered		ES
RD-34A		Primary	11/16/06	Uranium-238	11.2	0.75	0.071	Filtered		ES
RD-34A		Primary	02/15/07	Radium-226	0.194 U	0.32	0.545	Filtered		ES
RD-34A		Primary	02/15/07	Radium-228	0.079 U	0.16	0.372	Filtered		ES
RD-34A		Primary	02/15/07	Thorium-228	0.007 U	0.043	0.073	Filtered		ES
RD-34A		Primary	02/15/07	Thorium-230	0.002 U	0.047	0.098	Filtered		ES
RD-34A		Primary	02/15/07	Thorium-232	-0.014 U	0.01	0.034	Filtered		ES
RD-34A		Primary	02/15/07	Uranium-234	9.94	0.84	0.114	Filtered		ES
RD-34A		Primary	02/15/07	Uranium-235	0.547 J	0.14	0.065	Filtered		ES
RD-34A		Primary	02/15/07	Uranium-238	10.1	0.85	0.102	Filtered		ES
RD-34A		Primary	08/15/07	Radium-226	0.602 U	0.45	0.665	Filtered		ES
RD-34A		Primary	08/15/07	Radium-228	1.14	0.2	0.418	Filtered		ES
RD-34A		Primary	08/15/07	Uranium-233/234	9.89	0.64	0.064	Filtered		ES
RD-34A		Primary	08/15/07	Uranium-235	0.534 J	0.088	0.024	Filtered		ES
RD-34A		Primary	08/15/07	Uranium-238	10.7	0.69	0.058	Filtered		ES
RD-34A		Primary	02/06/08	Radium-226	0.5 U	0.5	0.803	Filtered		ES
RD-34A		Primary	02/06/08	Radium-228	-0.059 U	0.13	0.374	Filtered		ES
RD-34A		Primary	02/06/08	Strontium-90	-0.044 U	0.25	0.487	Filtered		ES
RD-34A		Primary	02/06/08	Thorium-228	0.016 U	0.065	0.112	Filtered		ES
RD-34A		Primary	02/06/08	Thorium-230	0.024 U	0.065	0.112	Filtered		ES
RD-34A		Primary	02/06/08	Thorium-232	0 U	0.016	0.039	Filtered		ES
RD-34A		Primary	02/06/08	Uranium-234	9.56	0.64	0.069	Filtered		ES
RD-34A		Primary	02/06/08	Uranium-235	0.554 J	0.099	0.034	Filtered		ES
RD-34A		Primary	02/06/08	Uranium-238	10.3	0.69	0.064	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-V
RESULTS OF ANALYSES FOR SPECIFIC ISOTOPES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-34A		Primary	08/07/08	Radium-226	0.618 J	0.43	0.616	Filtered		ES
RD-34A		Primary	08/07/08	Radium-228	0.162 U	0.12	0.403	Filtered		ES
RD-34A		Primary	08/07/08	Uranium-234	9.22	0.86	0.069	Filtered		ES
RD-34A		Primary	08/07/08	Uranium-235	0.485 J	0.097	0.03	Filtered		ES
RD-34A		Primary	08/07/08	Uranium-238	9.85	0.91	0.063	Filtered		ES
RD-34B		Primary	05/10/94	Radium-226	-42 U	62	85	Filtered		LAS
RD-34B		Primary	05/10/94	Radium-226	-70 U	100	150	Unfiltered		LAS
RD-34B		Primary	05/10/94	Strontium-90	-0.09 U	0.66	0.82	Filtered		ES
RD-34B		Primary	05/10/94	Uranium-235	0 U	18	25	Filtered		LAS
RD-34B		Primary	05/10/94	Uranium-235	-15 U	14	40	Unfiltered		LAS
RD-34B		Primary	02/07/95	Uranium-235	-9 U	27	54	Filtered		LAS
RD-34B		Primary	08/10/95	Uranium-235	-19 U	16	44	Filtered		LAS
RD-34B		Primary	02/19/96	Uranium-235	3 U	27	42	Filtered		LAS
RD-34B		Primary	08/18/96	Uranium-235	-4 U	28	42	Filtered		LAS
RD-34B		Primary	02/07/97	Uranium-235	-25 U	20	53	Filtered		LAS
RD-34B		Primary	08/21/97	Radium-226	30 U	120	180	Filtered		LAS
RD-34B		Primary	08/21/97	Uranium-235	-5 U	28	43	Filtered		LAS
RD-34B		Primary	05/27/98	Uranium-235	49.6 U	---	49.6	Filtered		TN
RD-34B		Primary	08/18/98	Radium-226	349 U	---	349	Filtered		TN
RD-34B		Primary	08/18/98	Uranium-235	76.9 U	---	76.9	Filtered		TN
RD-34B		Primary	02/05/00	Radium-226	165 U	---	165	Filtered		TR
RD-34B		Primary	02/24/04	Radium-226	0.899 J	0.1	0.039	Filtered		ES
RD-34B		Primary	02/24/04	Radium-228	1.52	0.2	0.363	Filtered		ES
RD-34B		Primary	02/24/04	Uranium-233/234	0.443 J	0.076	0.026	Filtered		ES
RD-34B		Primary	02/24/04	Uranium-235	0.01 U	0.02	0.032	Filtered		ES
RD-34B		Primary	02/24/04	Uranium-238	0.246 J	0.057	0.021	Filtered		ES
RD-34B		Primary	08/09/04	Radium-226	1.14	0.12	0.058	Filtered		ES
RD-34B		Primary	08/09/04	Radium-228	1.39	0.22	0.449	Filtered		ES
RD-34B		Primary	02/15/05	Radium-226	1.39	0.41	0.431	Filtered		ES
RD-34B		Primary	02/15/05	Radium-228	2.47	0.37	0.524	Filtered		ES
RD-34B		Primary	02/15/05	Uranium-233/234	1.39	0.17	0.029	Filtered		ES
RD-34B		Primary	02/15/05	Uranium-235	0.051 J	0.037	0.036	Filtered		ES
RD-34B		Primary	02/15/05	Uranium-238	1.2	0.15	0.029	Filtered		ES
RD-34B		Primary	08/23/05	Radium-226	1.26	0.57	0.723	Filtered		ES
RD-34B		Primary	08/23/05	Radium-228	2.45	0.3	0.494	Filtered		ES
RD-34B		Primary	02/17/06	Radium-226	1.52	0.55	0.672	Filtered		ES
RD-34B		Primary	02/17/06	Radium-228	0.044 U	0.35	0.626	Filtered		ES
RD-34B		Primary	02/17/06	Uranium-233/234	0.474 J	0.083	0.031	Filtered		ES
RD-34B		Primary	02/17/06	Uranium-235	0.024 U	0.024	0.03	Filtered		ES
RD-34B		Primary	02/17/06	Uranium-238	0.484 J	0.084	0.036	Filtered		ES
RD-34B		Primary	08/09/06	Radium-226	1.9	0.7	0.807	Filtered		ES
RD-34B		Primary	08/09/06	Radium-228	1.94	0.42	0.418	Filtered		ES
RD-34B		Primary	08/14/07	Radium-226	0.949 J	0.49	0.644	Filtered		ES
RD-34B		Primary	08/14/07	Radium-228	1.24	0.24	0.394	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-V
RESULTS OF ANALYSES FOR SPECIFIC ISOTOPES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-34B		Primary	08/14/07	Uranium-233/234	0.592 J	0.089	0.028	Filtered		ES
RD-34B		Primary	08/14/07	Uranium-235	0.029 J	0.022	0.027	Filtered		ES
RD-34B		Primary	08/14/07	Uranium-238	0.51 J	0.082	0.028	Filtered		ES
RD-34B		Primary	02/06/08	Radium-226	1.36	0.59	0.72	Filtered		ES
RD-34B		Primary	02/06/08	Radium-228	0.01 U	0.008	0.012	Filtered		ES
RD-34B		Primary	02/06/08	Strontium-90	0.084 U	0.27	0.513	Filtered		ES
RD-34B		Primary	02/06/08	Uranium-234	1.34	0.16	0.041	Filtered		ES
RD-34B		Primary	02/06/08	Uranium-235	0.04 J	0.032	0.031	Filtered		ES
RD-34B		Primary	02/06/08	Uranium-238	1.18	0.14	0.032	Filtered		ES
RD-34B		Primary	08/07/08	Radium-226	0.468 J	0.33	0.455	Filtered		ES
RD-34B		Primary	08/07/08	Radium-228	1.39	0.25	0.4	Filtered		ES
RD-34C		Primary	05/09/94	Radium-226	-210 U	100	150	Filtered		LAS
RD-34C		Primary	05/09/94	Radium-226	0 U	110	160	Unfiltered		LAS
RD-34C		Primary	05/09/94	Strontium-90	-0.47 U	0.6	0.78	Filtered		LAS
RD-34C		Primary	05/09/94	Uranium-235	15 U	24	32	Filtered		LAS
RD-34C		Primary	05/09/94	Uranium-235	0 U	26	37	Unfiltered		LAS
RD-34C		Primary	02/07/95	Uranium-235	-2 U	25	44	Filtered		LAS
RD-34C		Primary	08/10/95	Uranium-235	11 U	26	38	Filtered		LAS
RD-34C		Primary	02/19/96	Uranium-235	-7 U	16	28	Filtered		LAS
RD-34C		Primary	08/19/96	Uranium-235	-11 U	28	45	Filtered		LAS
RD-34C		Primary	02/07/97	Uranium-235	4 U	16	28	Filtered		LAS
RD-34C		Primary	08/21/97	Radium-226	20 U	120	190	Filtered		LAS
RD-34C		Primary	08/21/97	Uranium-235	0 U	29	45	Filtered		LAS
RD-34C		Primary	05/27/98	Radium-226	125 U	---	125	Filtered		TN
RD-34C		Primary	05/27/98	Uranium-235	49.7 U	---	49.7	Filtered		TN
RD-34C		Primary	08/17/98	Radium-226	199 U	---	199	Filtered		TN
RD-34C		Primary	08/17/98	Uranium-235	72.2 U	---	72.2	Filtered		TN
RD-34C		Primary	02/24/04	Radium-226	0.789 J	0.097	0.034	Filtered		ES
RD-34C		Primary	02/24/04	Radium-228	1.35	0.19	0.36	Filtered		ES
RD-34C		Primary	08/09/04	Radium-226	0.439 J	0.08	0.051	Filtered		ES
RD-34C		Split	08/09/04	Radium-226	0.892 J	0.347	0.0671	Filtered		STL
RD-34C		Primary	08/09/04	Radium-228	1.34	0.22	0.424	Filtered		ES
RD-34C		Split	08/09/04	Radium-228	3.18	0.936	0.995	Filtered		STL
RD-34C		Primary	02/15/05	Radium-226	0.458 U	0.34	0.522	Filtered		ES
RD-34C		Primary	02/15/05	Radium-228	1.8	0.28	0.549	Filtered		ES
RD-34C		Primary	08/23/05	Radium-226	0.433 U	0.49	0.794	Filtered		ES
RD-34C		Primary	08/23/05	Radium-228	1.78	0.28	0.543	Filtered		ES
RD-34C		Primary	02/21/06	Radium-226	0.55 U	0.44	0.682	Filtered		ES
RD-34C		Split	02/21/06	Radium-228	1.64	0.426	0.53	Filtered		ES
RD-34C		Split	02/21/06	Radium-226	0.546 J	0.23	0.249	Filtered		STL
RD-34C		Primary	02/21/06	Radium-228	1.64	0.27	0.509	Filtered		STL
RD-34C		Primary	08/09/06	Radium-226	0.981 J	0.54	0.743	Filtered		ES
RD-34C		Primary	08/09/06	Radium-228	1.68	0.24	0.445	Filtered		ES
RD-34C		Primary	02/07/07	Radium-226	1.19	0.61	0.78	Filtered		ES
RD-34C		Primary	02/07/07	Radium-228	1.1	0.26	0.354	Filtered		ES
RD-34C		Primary	08/08/07	Radium-226	1.07	0.61	0.827	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-V
RESULTS OF ANALYSES FOR SPECIFIC ISOTOPES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-34C		Primary	08/08/07	Radium-228	1.41	0.21	0.427	Filtered		ES
RD-34C		Primary	02/12/08	Radium-226	1.31	0.67	0.791	Filtered		ES
RD-34C		Primary	02/12/08	Radium-228	1.41	0.24	0.389	Filtered		ES
RD-34C		Primary	02/12/08	Strontium-90	-0.106 U	0.39	0.675	Filtered		ES
RD-34C		Primary	08/07/08	Radium-226	0.827 J	0.48	0.651	Filtered		ES
RD-34C		Primary	08/07/08	Radium-228	0.907 J	0.9	0.403	Filtered		ES
RD-35B		Primary	08/18/99	Thorium-228	0 U	0.18	0.376	Filtered		TN
RD-35B		Primary	08/18/99	Thorium-230	-0.044 U	0.13	0.212	Filtered		TN
RD-35B		Primary	08/18/99	Thorium-232	0.022 U	0.044	0.17	Filtered		TN
RD-35B		Primary	08/18/99	Uranium-233/234	0.713	0.19	0.099	Filtered		TN
RD-35B		Primary	08/18/99	Uranium-235	0.05 U	0.05	0.096	Filtered		TN
RD-35B		Primary	08/18/99	Uranium-238	0.362	0.13	0.079	Filtered		TN
RD-44		Primary	08/24/97	Radium-226	0 U	120	180	Filtered		LAS
RD-44		Primary	08/24/97	Radon-222	358	31	---	Unfiltered		TN
RD-44		Primary	08/24/97	Uranium-235	7 U	27	39	Filtered		LAS
RD-47		Primary	08/24/97	Radium-226	-50 U	120	190	Filtered		LAS
RD-47		Primary	08/24/97	Radon-222	698	47	---	Unfiltered		LAS
RD-47		Primary	08/24/97	Uranium-235	-14 U	28	45	Filtered		LAS
RD-50		Primary	05/05/94	Radium-226	0 U	110	150	Filtered		LAS
RD-50		Primary	05/05/94	Uranium-233/234	5.85	0.89	0.15	Filtered		LAS
RD-50		Primary	05/05/94	Uranium-235	-4 U	20	34	Filtered		LAS
RD-50		Primary	05/05/94	Uranium-235	1.22	0.39	0.12	Filtered		LAS
RD-50		Primary	05/05/94	Uranium-238	3.24	0.65	0.17	Filtered		LAS
RD-50		Primary	05/19/95	Uranium-235	-2 U	19	30	Filtered		LAS
RD-50		Primary	05/05/97	Uranium-235	0 U	29	41	Filtered		LAS
RD-50		Primary	05/28/98	Radium-226	193 U	---	193	Filtered		TN
RD-50		Primary	05/28/98	Uranium-235	71 U	---	71	Filtered		TN
RD-54A		Primary	05/08/94	Radium-226	-84 U	96	150	Filtered		LAS
RD-54A		Primary	05/08/94	Uranium-235	4 U	23	32	Filtered		LAS
RD-54A		Primary	08/03/95	Uranium-235	0 U	33	52	Filtered		LAS
RD-54A		Primary	08/23/96	Uranium-235	-9 U	28	44	Filtered		LAS
RD-54A		Primary	05/05/97	Uranium-235	-8 U	18	29	Filtered		LAS
RD-54A		Primary	08/22/97	Radium-226	0 U	120	180	Filtered		LAS
RD-54A		Primary	08/22/97	Uranium-235	-5 U	27	42	Filtered		LAS
RD-54A		Primary	02/08/98	Radium-226	185 U	---	185	Filtered		TN
RD-54A		Primary	02/08/98	Thorium-228	0.011 U	0.034	0.057	Filtered		TN
RD-54A		Primary	02/08/98	Thorium-230	0.077 U	---	0.077	Filtered		TN
RD-54A		Primary	02/08/98	Thorium-232	0.025	0.017	0.022	Filtered		TN
RD-54A		Primary	02/08/98	Uranium-233/234	0.65	0.079	0.023	Filtered		TN
RD-54A		Primary	02/08/98	Uranium-235	59.4 U	---	59.4	Filtered		TN
RD-54A		Primary	02/08/98	Uranium-235	0.015 U	0.015	0.02	Filtered		TN
RD-54A		Primary	02/08/98	Uranium-238	0.496	0.065	0.016	Filtered		TN
RD-54A		Primary	08/07/98	Radium-226	301 U	---	301	Filtered		TN

See last page of table for notes and abbreviations.

TABLE E-V
RESULTS OF ANALYSES FOR SPECIFIC ISOTOPES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-54A		Primary	08/07/98	Uranium-235	134 U	---	134	Filtered		TN
RD-54A		Primary	02/08/99	Thorium-228	0.007 U	0.07	0.124	Filtered		TN
RD-54A		Primary	02/08/99	Thorium-230	0.028 U	0.07	0.094	Filtered		TN
RD-54A		Primary	02/08/99	Thorium-232	0 U	0.014	0.054	Filtered		TN
RD-54A		Primary	02/08/99	Uranium-233/234	6.58	0.42	0.074	Filtered		TN
RD-54A		Primary	02/08/99	Uranium-235	0.307	0.079	0.037	Filtered		TN
RD-54A		Primary	02/08/99	Uranium-238	5.79	0.39	0.058	Filtered		TN
RD-54A		Primary	03/15/00	Thorium-228	0.09 U	0.13	0.208	Filtered		TN
RD-54A		Primary	03/15/00	Thorium-230	0.822 B	0.26	0.237	Filtered		TR
RD-54A		Primary	03/15/00	Thorium-232	0.026 U	0.051	0.098	Filtered		TR
RD-54A		Primary	03/15/00	Uranium-233/234	1.55	0.34	0.126	Filtered		TR
RD-54A		Primary	03/15/00	Uranium-235	0.08 U	0.08	0.152	Filtered		TR
RD-54A		Primary	03/15/00	Uranium-238	1.53 B	0.34	0.126	Filtered		TR
RD-54A		Primary	10/26/01	Thorium-228	0.36	0.2	0.25	Filtered		TR
RD-54A		Primary	10/26/01	Thorium-230	0.44	0.61	0.11	Filtered		DL
RD-54A		Primary	10/26/01	Thorium-232	0.55	0.05	0.09	Filtered		DL
RD-54A		Primary	10/26/01	Uranium-233/234	8.82	0.23	0.06	Filtered		DL
RD-54A		Primary	10/26/01	Uranium-235	0.22	0.04	0.04	Filtered		DL
RD-54A		Primary	10/26/01	Uranium-238	7.34	0.21	0.05	Filtered		DL
RD-54A		Primary	02/27/02	Thorium-228	0 U	1	1	Filtered		DL
RD-54A		Primary	02/27/02	Thorium-230	0 U	1	1	Filtered		DL
RD-54A		Primary	02/27/02	Thorium-232	0 U	1	1	Filtered		DL
RD-54A		Primary	02/27/02	Uranium-233/234	4.1	0.19	1	Filtered		DL
RD-54A		Primary	02/27/02	Uranium-235	0.1 U	0.1	1	Filtered		DL
RD-54A		Primary	02/27/02	Uranium-238	4	0.17	1	Filtered		DL
RD-54A	Z2	Primary	02/18/03	Thorium-228	0.052 U	0.048	0.067	Filtered		ES
RD-54A	Z2	Primary	02/18/03	Thorium-230	0.091 U	0.1	0.235	Filtered		ES
RD-54A	Z2	Primary	02/18/03	Thorium-232	-0.004 U	0.016	0.038	Filtered		ES
RD-54A	Z2	Primary	02/18/03	Uranium-233/234	7.13	0.5	0.105	Filtered		ES
RD-54A	Z2	Primary	02/18/03	Uranium-235	0.389	0.12	0.068	Filtered		ES
RD-54A	Z2	Primary	02/18/03	Uranium-238	6.18	0.45	0.098	Filtered		ES
RD-54A	Z2	Primary	11/03/04	Radium-226	0.687 J	0.32	0.395	Filtered		ES
RD-54A	Z2	Primary	11/03/04	Radium-228	1.62	0.29	0.597	Filtered		ES
RD-54A	Z2	Primary	11/03/04	Thorium-228	0.016 U	0.026	0.04	Filtered		ES
RD-54A	Z2	Primary	11/03/04	Thorium-230	-0.003 U	0.052	0.1	Filtered		ES
RD-54A	Z2	Primary	11/03/04	Thorium-232	-0.003 U	0.013	0.025	Filtered		ES
RD-54A	Z2	Primary	02/16/05	Radium-226	1.27	0.55	0.689	Filtered		ES
RD-54A	Z2	Primary	02/16/05	Radium-228	1.96	0.33	0.602	Filtered		ES
RD-54A	Z2	Primary	02/16/05	Thorium-228	0.01 U	0.02	0.033	Filtered		ES
RD-54A	Z2	Primary	02/16/05	Thorium-230	0.129	0.068	0.107	Filtered		ES
RD-54A	Z2	Primary	02/16/05	Thorium-232	0.034 J	0.027	0.026	Filtered		ES
RD-54A	Z2	Primary	02/16/05	Uranium-233/234	5.06	0.38	0.046	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-V
RESULTS OF ANALYSES FOR SPECIFIC ISOTOPES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-54A	Z2	Primary	02/16/05	Uranium-235	0.172 J	0.053	0.028	Filtered		ES
RD-54A	Z2	Primary	02/16/05	Uranium-238	4.12	0.32	0.044	Filtered		ES
RD-54A	Z2	Primary	08/31/05	Radium-226	0.636 J	0.41	0.581	Filtered		ES
RD-54A	Z2	Primary	08/31/05	Radium-228	2.52	0.35	0.646	Filtered		ES
RD-54A	Z2	Primary	08/31/05	Uranium-233/234	10.5	0.7	0.065	Filtered		ES
RD-54A	Z2	Primary	08/31/05	Uranium-235	0.454 J	0.089	0.03	Filtered		ES
RD-54A	Z2	Primary	08/31/05	Uranium-238	9.3	0.63	0.061	Filtered		ES
RD-54A	Z2	Primary	02/16/06	Radium-226	1.84	0.61	0.632	Filtered		ES
RD-54A	Z2	Primary	02/16/06	Radium-228	0.178 U	0.8	0.385	Filtered		ES
RD-54A	Z2	Primary	02/16/06	Thorium-228	0.061 U	0.051	0.068	Filtered		ES
RD-54A	Z2	Primary	02/16/06	Thorium-230	0.036 U	0.061	0.11	Filtered		ES
RD-54A	Z2	Primary	02/16/06	Thorium-232	-0.01 U	0.01	0.039	Filtered		ES
RD-54A	Z2	Primary	02/16/06	Uranium-233/234	10.6	0.72	0.071	Filtered		ES
RD-54A	Z2	Primary	02/16/06	Uranium-235	0.455 J	0.091	0.033	Filtered		ES
RD-54A	Z2	Primary	02/16/06	Uranium-238	9.47	0.66	0.066	Filtered		ES
RD-54A	Z2	Primary	08/17/06	Radium-226	1.01	0.61	0.872	Filtered		ES
RD-54A	Z2	Primary	08/17/06	Radium-228	1.16	0.2	0.424	Filtered		ES
RD-54A	Z2	Primary	02/07/07	Radium-226	1.29	0.63	0.825	Filtered		ES
RD-54A	Z2	Primary	02/07/07	Radium-228	1.07	0.27	0.328	Filtered		ES
RD-54A	Z2	Primary	02/07/07	Thorium-228	0.038 U	0.038	0.058	Filtered		ES
RD-54A	Z2	Primary	02/07/07	Thorium-230	-0.034 U	0.053	0.103	Filtered		ES
RD-54A	Z2	Primary	02/07/07	Thorium-232	0 U	0.015	0.029	Filtered		ES
RD-54A	Z2	Primary	08/10/07	Radium-226	1.46	0.6	0.701	Filtered		ES
RD-54A	Z2	Primary	08/10/07	Radium-228	1.39	0.23	0.462	Filtered		ES
RD-54A	Z2	Primary	08/10/07	Uranium-233/234	8	0.68	0.084	Filtered		ES
RD-54A	Z2	Primary	08/10/07	Uranium-235	0.312 J	0.093	0.058	Filtered		ES
RD-54A	Z2	Primary	08/10/07	Uranium-238	6.9	0.61	0.077	Filtered		ES
RD-54A	Z2	Primary	02/06/08	Radium-226	1.56	0.61	0.746	Filtered		ES
RD-54A	Z2	Primary	02/06/08	Radium-228	1.12	0.067	0.41	Filtered		ES
RD-54A	Z2	Primary	02/06/08	Strontium-90	-0.115 U	0.24	0.498	Filtered		ES
RD-54A	Z2	Primary	02/06/08	Thorium-228	0.051 U	0.065	0.105	Filtered		ES
RD-54A	Z2	Primary	02/06/08	Thorium-230	0.018 U	0.064	0.109	Filtered		ES
RD-54A	Z2	Primary	02/06/08	Thorium-232	-0.009 U	0.018	0.044	Filtered		ES
RD-54A	Z2	Primary	02/06/08	Uranium-234	7.18	0.51	0.056	Filtered		ES
RD-54A	Z2	Primary	02/06/08	Uranium-235	0.279 J	0.07	0.029	Filtered		ES
RD-54A	Z2	Primary	02/06/08	Uranium-238	5.82	0.43	0.048	Filtered		ES
RD-54A	Z2	Primary	08/07/08	Radium-226	0.609 J	0.41	0.583	Filtered		ES
RD-54A	Z2	Primary	08/07/08	Radium-228	0.937 J	0.44	0.483	Filtered		ES
RD-54B		Primary	05/08/94	Radium-226	20 U	110	150	Filtered		LAS
RD-54B		Primary	05/08/94	Uranium-235	-9 U	25	37	Filtered		LAS
RD-54B		Primary	08/30/95	Uranium-235	19 U	28	41	Filtered		LAS
RD-54B		Primary	08/23/96	Uranium-235	17 U	31	45	Filtered		LAS
RD-54B		Primary	08/22/97	Radium-226	35 U	70	100	Filtered		LAS
RD-54B		Primary	08/22/97	Uranium-235	-10.4 U	9.6	28	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-V
RESULTS OF ANALYSES FOR SPECIFIC ISOTOPES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-54B		Primary	02/08/98	Radium-226	85.7 U	---	85.7	Filtered		TN
RD-54B		Primary	02/08/98	Uranium-235	27.3 U	---	27.3	Filtered		TN
RD-54B		Primary	08/07/98	Radium-226	161 U	---	161	Filtered		TN
RD-54B		Primary	08/07/98	Uranium-235	56 U	---	56	Filtered		TN
RD-54B		Primary	02/08/99	Thorium-228	0.084 U	---	0.084	Filtered		TR
RD-54B		Primary	02/08/99	Thorium-230	-0.013 U	0.05	0.077	Filtered		TN
RD-54B		Primary	02/08/99	Thorium-232	-0.006 U	0.013	0.048	Filtered		TN
RD-54B		Primary	02/08/99	Uranium-233/234	0.062 U	0.048	0.064	Filtered		TN
RD-54B		Primary	02/08/99	Uranium-235	0.012 U	0.012	0.044	Filtered		TN
RD-54B		Primary	02/08/99	Uranium-238	0.048	0.029	0.036	Filtered		TN
RD-54B		Primary	02/16/05	Radium-226	1.11	0.36	0.422	Filtered		ES
RD-54B		Primary	02/16/05	Radium-228	2.86	0.31	0.492	Filtered		ES
RD-54B		Primary	08/22/05	Radium-226	0.079 J	0.028	0.033	Filtered		ES
RD-54B		Primary	08/22/05	Radium-228	4.01	0.39	0.54	Filtered		ES
RD-54B		Primary	02/20/06	Radium-226	1.71	0.56	0.676	Filtered		ES
RD-54B		Primary	02/20/06	Radium-228	3.05	0.31	0.518	Filtered		ES
RD-54B		Primary	08/23/06	Radium-226	2.21	0.71	0.728	Filtered		ES
RD-54B		Primary	08/23/06	Radium-228	2.91	0.27	0.412	Filtered		ES
RD-54B		Primary	02/12/07	Radium-226	1.24	0.51	0.654	Filtered		ES
RD-54B		Primary	02/12/07	Radium-228	1.99	1.3	0.374	Filtered		ES
RD-54B		Primary	08/14/07	Radium-226	2.51	0.65	0.621	Filtered		ES
RD-54B		Primary	08/14/07	Radium-228	2.66	0.25	0.413	Filtered		ES
RD-54B		Primary	02/14/08	Radium-226	0.983 J	0.58	0.733	Filtered		ES
RD-54B		Primary	02/14/08	Radium-228	2.26	0.34	0.43	Filtered		ES
RD-54B		Primary	02/14/08	Strontium-90	-0.005 U	0.26	0.502	Filtered		ES
RD-54B		Primary	11/07/08	Strontium-90	0.01 U	0.22	0.44	Filtered		ES
RD-54B		Primary	11/07/08	Strontium-90	-0.142 U	0.26	0.484	Unfiltered		ES
RD-54C		Primary	05/08/94	Radium-226	-20 U	30	200	Filtered		LAS
RD-54C		Primary	05/08/94	Uranium-235	0 U	0	32	Filtered		LAS
RD-54C		Primary	08/30/95	Uranium-235	-20 U	16	45	Filtered		LAS
RD-54C		Primary	08/23/96	Uranium-235	-8 U	26	41	Filtered		LAS
RD-54C		Primary	05/05/97	Uranium-235	-2 U	15	29	Filtered		LAS
RD-54C		Primary	08/24/97	Radium-226	-20 U	100	130	Filtered		LAS
RD-54C		Primary	08/24/97	Uranium-235	-4 U	28	45	Filtered		LAS
RD-54C		Primary	02/08/98	Radium-226	166 U	---	166	Filtered		TN
RD-54C		Primary	02/08/98	Uranium-235	58.3 U	---	58.3	Filtered		TN
RD-54C		Primary	08/07/98	Radium-226	312 U	---	312	Filtered		TN
RD-54C		Primary	08/07/98	Uranium-235	112 U	---	112	Filtered		TN
RD-54C		Primary	02/09/99	Thorium-228	0.013 U	0.038	0.071	Filtered		TN
RD-54C		Primary	02/09/99	Thorium-230	0.064 U	0.064	0.086	Filtered		TN
RD-54C		Primary	02/09/99	Thorium-232	0.006 U	0.013	0.049	Filtered		TN
RD-54C		Primary	02/09/99	Uranium-233/234	0 U	0.036	0.065	Filtered		TN
RD-54C		Primary	02/09/99	Uranium-235	0.011 U	0.022	0.042	Filtered		TN
RD-54C		Primary	02/09/99	Uranium-238	0.018 U	0.018	0.034	Filtered		TN
RD-54C		Primary	11/05/04	Radium-226	0.986 J	0.37	0.419	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-V
RESULTS OF ANALYSES FOR SPECIFIC ISOTOPES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-54C		Primary	11/05/04	Radium-228	1.57	0.28	0.577	Filtered		ES
RD-54C		Primary	02/17/05	Radium-226	0.398 U	0.29	0.431	Filtered		ES
RD-54C		Primary	02/17/05	Radium-228	0.303 U	0.25	0.579	Filtered		ES
RD-54C		Split	02/17/05	Radium-226	0.0999 J	0.059	0.0633	Filtered		STL
RD-54C		Split	02/17/05	Radium-228	2.18	0.55	0.397	Filtered		STL
RD-54C		Primary	08/22/05	Radium-226	0.013 U	0.018	0.031	Filtered		ES
RD-54C		Primary	08/22/05	Radium-228	1.3	0.24	0.49	Filtered		ES
RD-54C		Primary	02/23/06	Radium-226	0.67 U	0.46	0.69	Filtered		ES
RD-54C		Primary	02/23/06	Radium-228	1.03	0.24	0.522	Filtered		ES
RD-54C		Primary	08/10/06	Radium-226	0.585 U	0.49	0.762	Filtered		ES
RD-54C		Primary	08/10/06	Radium-228	0.959 J	0.29	0.614	Filtered		ES
RD-54C		Primary	02/12/07	Radium-226	0.46 U	0.49	0.794	Filtered		ES
RD-54C		Primary	02/12/07	Radium-228	1.1	0.81	0.346	Filtered		ES
RD-54C		Primary	08/07/07	Radium-226	0.218 U	0.5	0.886	Filtered		ES
RD-54C		Primary	08/07/07	Radium-228	0.628 J	0.19	0.444	Filtered		ES
RD-54C		Primary	02/14/08	Radium-226	0.528 U	0.54	0.84	Filtered		ES
RD-54C		Primary	02/14/08	Radium-228	0.402 U	0.23	0.516	Filtered		ES
RD-54C		Primary	02/14/08	Strontium-90	0.002 U	0.24	0.401	Filtered		ES
RD-54C		Primary	08/07/08	Radium-226	0.3 U	0.34	0.556	Filtered		ES
RD-54C		Primary	08/07/08	Radium-228	0.411 U	0.18	0.489	Filtered		ES
RD-56A		Primary	05/10/94	Strontium-90	-0.08 U	0.62	0.77	Filtered		LAS
RD-56A		Primary	05/10/94	Thorium-228	0.035 U	0.059	0.1	Filtered		LAS
RD-56A		Primary	05/10/94	Thorium-230	0.005 U	0.037	0.068	Filtered		LAS
RD-56A		Primary	05/10/94	Thorium-232	0.024 U	0.022	0.033	Filtered		LAS
RD-56A		Primary	05/10/94	Uranium-233/234	2.61	0.59	0.16	Filtered		TN
RD-56A		Primary	05/10/94	Uranium-235	0.34	0.21	0.13	Filtered		LAS
RD-56A		Primary	05/10/94	Uranium-238	2.08	0.53	0.17	Filtered		LAS
RD-56A		Primary	05/28/98	Radium-226	99.5 U	---	99.5	Filtered		TN
RD-56A		Primary	05/28/98	Uranium-235	34.3 U	---	34.3	Filtered		TN
RD-56B		Primary	05/28/98	Radium-226	205 U	---	205	Filtered		TN
RD-56B		Primary	05/28/98	Uranium-235	72.6 U	---	72.6	Filtered		TN
RD-57		Primary	05/10/94	Radium-226	-5 U	60	83	Filtered		LAS
RD-57		Primary	05/10/94	Strontium-90	-0.03 U	0.7	0.87	Filtered		LAS
RD-57		Primary	05/10/94	Thorium-228	0.014 U	0.062	0.11	Filtered		LAS
RD-57		Primary	05/10/94	Thorium-230	0.019 U	0.04	0.071	Filtered		LAS
RD-57		Primary	05/10/94	Thorium-232	0.008 U	0.016	0.029	Filtered		LAS
RD-57		Primary	05/10/94	Uranium-233/234	1.2	0.33	0.11	Filtered		LAS
RD-57		Primary	05/10/94	Uranium-235	-4 U	17	25	Filtered		LAS
RD-57		Primary	05/10/94	Uranium-235	0.3	0.16	0.084	Filtered		LAS
RD-57		Primary	05/10/94	Uranium-238	0.93	0.29	0.094	Filtered		LAS
RD-57		Primary	02/07/95	Uranium-235	-4 U	26	40	Filtered		LAS
RD-57		Primary	08/09/95	Uranium-235	22 U	28	41	Filtered		LAS
RD-57		Primary	02/19/96	Uranium-235	-28 U	13	42	Filtered		LAS
RD-57		Primary	08/22/96	Uranium-235	-23 U	21	42	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-V

RESULTS OF ANALYSES FOR SPECIFIC ISOTOPES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-57		Primary	02/25/97	Uranium-235	-5 U	27	43	Filtered		LAS
RD-57		Primary	08/27/97	Radium-226	-40 U	120	190	Filtered		LAS
RD-57		Primary	08/27/97	Radium-226	-30 U	130	200	Unfiltered		LAS
RD-57		Primary	08/27/97	Uranium-235	-9 U	28	43	Filtered		LAS
RD-57		Primary	08/27/97	Uranium-235	-19 U	15	45	Unfiltered		LAS
RD-57		Primary	05/26/98	Radium-226	104 U	---	104	Filtered		TN
RD-57		Primary	05/26/98	Uranium-235	32 U	---	32	Filtered		TN
RD-57		Primary	08/17/98	Radium-226	207 U	---	207	Filtered		TN
RD-57		Primary	08/17/98	Uranium-235	75.9 U	---	75.9	Filtered		TN
RD-57	Z7	Primary	03/08/05	Radium-226	-0.083 U	0.34	0.64	Filtered		ES
RD-57	Z7	Primary	03/08/05	Radium-228	1.05	0.21	0.433	Filtered		ES
RD-57	Z7	Primary	09/01/05	Radium-226	0.836 J	0.4	0.563	Filtered		ES
RD-57	Z7	Primary	09/01/05	Radium-228	1.11	0.23	0.496	Filtered		ES
RD-57	Z7	Primary	02/20/06	Radium-226	0.803 U	0.57	0.833	Filtered		ES
RD-57	Z7	Primary	02/20/06	Radium-228	1.75	0.28	0.522	Filtered		ES
RD-57	Z7	Primary	08/18/06	Radium-226	0.71 U	0.59	0.911	Filtered		ES
RD-57	Z7	Primary	08/18/06	Radium-228	1.04	0.22	0.461	Filtered		ES
RD-57	Z7	Primary	02/08/07	Radium-226	1.01	0.52	0.714	Filtered		ES
RD-57	Z7	Primary	02/08/07	Radium-228	1.08	0.19	0.397	Filtered		ES
RD-57	Z8	Primary	02/07/08	Strontium-90	-0.029 U	0.23	0.432	Filtered		ES
RD-57	Z5	Primary	08/08/08	Radium-226	-0.066 U	0.31	0.625	Filtered		ES
RD-59A		Primary	08/16/94	Radium-226	-1370 U	520	780	Filtered		LAS
RD-59A		Primary	08/16/94	Strontium-90	0.56 U	0.68	1.1	Filtered		LAS
RD-59A		Primary	02/06/95	Uranium-235	16 U	21	30	Filtered		LAS
RD-59A		Duplicate	02/06/95	Uranium-235	8 U	29	44	Filtered		LAS
RD-59A		Primary	08/08/95	Uranium-235	-25 U	16	47	Filtered		LAS
RD-59A		Primary	03/12/96	Uranium-235	12 U	33	47	Filtered		LAS
RD-59A		Primary	08/21/96	Uranium-235	-21 U	14	50	Filtered		LAS
RD-59A		Primary	02/16/97	Uranium-235	-4 U	31	45	Filtered		LAS
RD-59A		Primary	08/22/97	Radium-226	31 U	72	110	Filtered		LAS
RD-59A		Primary	08/22/97	Uranium-235	16 U	33	49	Filtered		LAS
RD-59A		Primary	08/19/98	Radium-226	400 U	---	400	Filtered		TN
RD-59A		Primary	08/19/98	Uranium-235	145 U	---	145	Filtered		TN
RD-59A		Primary	11/16/04	Radium-226	0.288 U	0.23	0.349	Filtered		ES
RD-59A		Primary	11/16/04	Radium-228	0.211 U	0.19	0.5	Filtered		ES
RD-59A		Primary	09/07/05	Radium-226	-0.025 U	0.37	0.696	Filtered		ES
RD-59A		Primary	09/07/05	Radium-228	0.443 U	0.22	0.545	Filtered		ES
RD-59A		Primary	08/23/06	Radium-226	0.349 U	0.52	0.875	Filtered		ES
RD-59A		Primary	08/23/06	Radium-228	0.235 U	0.18	0.441	Filtered		ES
RD-59A		Primary	02/28/07	Radium-226	0.6 U	0.48	0.717	Filtered		ES
RD-59A		Primary	02/28/07	Radium-228	0.35 U	0.16	0.39	Filtered		ES
RD-59A		Primary	08/16/07	Radium-226	0.514 U	0.47	0.724	Filtered		ES
RD-59A		Primary	08/16/07	Radium-228	0.297 U	0.15	0.372	Filtered		ES
RD-59A		Primary	05/20/08	Americium-241	6.33 U	---	6.33	Filtered		ES
RD-59A		Primary	05/20/08	Radium-226	0.335 U	0.41	0.672	Filtered		ES
RD-59A		Primary	05/20/08	Radium-228	0.754 J	0.2	0.405	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-V
RESULTS OF ANALYSES FOR SPECIFIC ISOTOPES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-59A		Primary	05/20/08	Strontium-90	-0.207 U	0.21	0.459	Filtered		ES
RD-59A		Primary	08/14/08	Radium-226	1.07	0.63	0.834	Filtered		ES
RD-59A		Primary	08/14/08	Radium-228	0.336 U	0.2	0.51	Filtered		ES
RD-59B		Primary	08/16/94	Radium-226	-730 U	640	930	Filtered		LAS
RD-59B		Primary	08/16/94	Strontium-90	0.07 U	0.7	1.2	Filtered		LAS
RD-59B		Primary	02/06/95	Uranium-235	-3 U	29	45	Filtered		LAS
RD-59B		Primary	08/08/95	Uranium-235	1 U	29	45	Filtered		LAS
RD-59B		Primary	03/12/96	Uranium-235	10 U	19	28	Filtered		LAS
RD-59B		Primary	08/21/96	Uranium-235	12 U	28	40	Filtered		LAS
RD-59B		Primary	02/16/97	Uranium-235	-29 U	24	43	Filtered		LAS
RD-59B		Primary	08/22/97	Radium-226	17 U	70	100	Filtered		LAS
RD-59B		Primary	08/22/97	Uranium-235	-2 U	19	30	Filtered		LAS
RD-59B		Primary	08/19/98	Radium-226	246 U	---	246	Filtered		TN
RD-59B		Primary	08/19/98	Uranium-235	66.9 U	---	66.9	Filtered		TN
RD-59B		Primary	11/05/04	Radium-226	0.97 J	0.36	0.403	Filtered		ES
RD-59B		Primary	11/05/04	Radium-228	1.3	0.29	0.624	Filtered		ES
RD-59B		Primary	09/07/05	Radium-226	0.611 U	0.43	0.666	Filtered		ES
RD-59B		Primary	09/07/05	Radium-228	1.32	0.26	0.501	Filtered		ES
RD-59B		Primary	02/22/06	Radium-226	0.76 J	0.46	0.596	Filtered		ES
RD-59B		Primary	02/22/06	Radium-228	1.35	0.22	0.454	Filtered		ES
RD-59B		Primary	08/23/06	Radium-226	0.753 U	0.56	0.849	Filtered		ES
RD-59B		Primary	08/23/06	Radium-228	1.77	0.28	0.441	Filtered		ES
RD-59B		Primary	02/28/07	Radium-226	0.58 U	0.48	0.718	Filtered		ES
RD-59B		Primary	02/28/07	Radium-228	1.2	0.32	0.407	Filtered		ES
RD-59B		Split	02/28/07	Radium-226	0.532 J	0.19	0.157	Filtered		STL
RD-59B		Split	02/28/07	Radium-228	1.18	0.32	0.414	Filtered		STL
RD-59B		Primary	08/16/07	Radium-226	0.234 U	0.47	0.829	Filtered		ES
RD-59B		Primary	08/16/07	Radium-228	1.5	0.2	0.392	Filtered		ES
RD-59B		Primary	05/20/08	Americium-241	5.94 U	---	5.94	Filtered		ES
RD-59B		Primary	05/20/08	Radium-226	1.03	0.48	0.546	Filtered		ES
RD-59B		Primary	05/20/08	Radium-228	1.33	0.23	0.362	Filtered		ES
RD-59B		Primary	05/20/08	Strontium-90	-0.068 U	0.24	0.483	Filtered		ES
RD-59B		Primary	08/14/08	Radium-226	0.452 U	0.42	0.639	Filtered		ES
RD-59B		Primary	08/14/08	Radium-228	1.02	0.25	0.519	Filtered		ES
RD-59C		Primary	08/16/94	Radium-226	-990 U	640	900	Filtered		LAS
RD-59C		Primary	08/16/94	Strontium-90	-0.33 U	0.74	1.3	Filtered		LAS
RD-59C		Primary	02/06/95	Uranium-235	5 U	30	45	Filtered		LAS
RD-59C		Primary	08/08/95	Uranium-235	-5 U	28	44	Filtered		LAS
RD-59C		Primary	08/21/96	Uranium-235	-20 U	14	42	Filtered		LAS
RD-59C		Primary	02/16/97	Uranium-235	27 U	28	38	Filtered		LAS
RD-59C		Primary	08/22/97	Radium-226	-33 U	66	100	Filtered		LAS
RD-59C		Primary	08/22/97	Uranium-235	-1 U	18	27	Filtered		LAS
RD-59C		Primary	08/19/98	Radium-226	206 U	---	206	Filtered		TN
RD-59C		Primary	08/19/98	Uranium-235	72.9 U	---	72.9	Filtered		TN
RD-59C		Primary	11/05/04	Radium-226	0.279 U	0.27	0.419	Filtered		ES
RD-59C		Primary	11/05/04	Radium-228	1.18	0.27	0.579	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-V
RESULTS OF ANALYSES FOR SPECIFIC ISOTOPES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-59C		Primary	09/07/05	Radium-226	0.412 U	0.36	0.56	Filtered		ES
RD-59C		Primary	09/07/05	Radium-228	1.17	0.23	0.478	Filtered		ES
RD-59C		Primary	02/22/06	Radium-226	0.196 U	0.4	0.699	Filtered		ES
RD-59C		Split	02/22/06	Radium-226	0.619 J	0.234	0.197	Filtered		STL
RD-59C		Primary	02/22/06	Radium-228	1.17	0.22	0.467	Filtered		ES
RD-59C		Split	02/22/06	Radium-228	1.35	0.382	0.517	Filtered		STL
RD-59C		Primary	08/23/06	Radium-226	0.103 U	0.46	0.862	Filtered		ES
RD-59C		Primary	08/23/06	Radium-228	1.27	0.21	0.432	Filtered		ES
RD-59C		Primary	02/28/07	Radium-226	0.706 J	0.38	0.532	Filtered		ES
RD-59C		Primary	02/28/07	Radium-228	0.479 J	0.17	0.423	Filtered		ES
RD-59C		Primary	08/16/07	Radium-226	0.375 U	0.4	0.65	Filtered		ES
RD-59C		Primary	08/16/07	Radium-228	1.36	0.24	0.397	Filtered		ES
RD-59C		Primary	05/20/08	Americium-241	1.54 U	---	1.54	Filtered		ES
RD-59C		Primary	05/20/08	Radium-226	0.756 J	0.46	0.638	Filtered		ES
RD-59C		Primary	05/20/08	Radium-228	1.14	0.24	0.357	Filtered		ES
RD-59C		Primary	05/20/08	Strontium-90	0.033 U	0.3	0.568	Filtered		ES
RD-59C		Primary	08/14/08	Radium-226	0.388 U	0.43	0.702	Filtered		ES
RD-59C		Primary	08/14/08	Radium-228	1.09	0.25	0.496	Filtered		ES
RD-61		Primary	05/28/98	Radium-226	107 U	---	107	Filtered		TN
RD-61		Primary	05/28/98	Uranium-235	33.4 U	---	33.4	Filtered		TN
RD-63		Primary	11/06/96	Uranium-233/234	3.66	0.4	---	Filtered		LAS
RD-63		Primary	11/06/96	Uranium-235	0.207	0.085	---	Filtered		LAS
RD-63		Primary	11/06/96	Uranium-238	2.92	0.35	---	Filtered		LAS
RD-63		Primary	02/24/04	Radium-226	1.59	0.14	0.037	Filtered		ES
RD-63		Primary	02/24/04	Radium-228	2.34	0.24	0.347	Filtered		ES
RD-63		Primary	08/25/05	Radium-226	0.089 U	0.42	0.78	Filtered		ES
RD-63		Primary	08/25/05	Radium-228	3.66	0.36	0.513	Filtered		ES
RD-63		Primary	02/16/06	Radium-226	3.22	0.79	0.634	Filtered		ES
RD-63		Primary	02/16/06	Radium-228	2.8	0.28	0.452	Filtered		ES
RD-63		Primary	08/09/06	Radium-226	1.79	0.64	0.691	Filtered		ES
RD-63		Split	08/09/06	Radium-226	2.1	0.48	0.167	Filtered		STL
RD-63		Primary	08/09/06	Radium-228	2.37	0.29	0.463	Filtered		ES
RD-63		Split	08/09/06	Radium-228	3.78	0.61	0.479	Filtered		STL
RD-63		Primary	05/24/07	Radium-226	1.87	0.62	0.702	Filtered		ES
RD-63		Split	05/24/07	Radium-226	1.72	0.46	0.205	Filtered		STL
RD-63		Primary	05/24/07	Radium-228	1.3	0.39	0.415	Filtered		ES
RD-63		Split	05/24/07	Radium-228	1.72	0.44	0.563	Filtered		STL
RD-63		Primary	08/21/07	Radium-226	1.03	0.57	0.757	Filtered		ES
RD-63		Primary	08/21/07	Radium-228	1.94	0.36	0.423	Filtered		ES
RD-63		Primary	02/06/08	Radium-226	1.1	0.62	0.837	Filtered		ES
RD-63		Primary	02/06/08	Radium-228	1.35	0.081	0.494	Filtered		ES
RD-63		Primary	02/06/08	Strontium-90	0.022 U	0.24	0.472	Filtered		ES
RD-63		Primary	08/12/08	Radium-226	1.69	0.62	0.644	Filtered		ES
RD-63		Primary	08/12/08	Radium-228	1.51	0.82	0.511	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-V

RESULTS OF ANALYSES FOR SPECIFIC ISOTOPES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-64		Primary	05/10/01	Uranium-233/234	2.21	0.2	0.065	Filtered		ES
RD-64		Primary	05/10/01	Uranium-235	0.116	0.054	0.049	Filtered		ES
RD-64		Primary	05/10/01	Uranium-238	1.67	0.17	0.05	Filtered		ES
RD-64		Primary	02/28/02	Uranium-233/234	2.87	0.15	1	Filtered		DL
RD-64		Primary	02/28/02	Uranium-238	1.7	0.14	1	Filtered		DL
RD-64	Z6	Primary	01/29/03	Uranium-233/234	2.43	0.2	0.044	Filtered		ES
RD-64	Z6	Primary	01/29/03	Uranium-235	0.096	0.044	0.033	Filtered		ES
RD-64	Z6	Primary	01/29/03	Uranium-238	2.04	0.18	0.04	Filtered		ES
RD-64	Z6	Primary	11/12/04	Radium-226	0.347 U	0.26	0.384	Filtered		ES
RD-64	Z6	Primary	11/12/04	Radium-228	1.68	0.29	0.564	Filtered		ES
RD-64	Z6	Primary	11/12/04	Uranium-233/234	2.46	0.23	0.042	Filtered		ES
RD-64	Z6	Primary	11/12/04	Uranium-235	0.087 J	0.038	0.029	Filtered		ES
RD-64	Z6	Primary	11/12/04	Uranium-238	1.86	0.19	0.034	Filtered		ES
RD-64	Z6	Primary	02/14/05	Radium-226	1.5	0.57	0.671	Filtered		ES
RD-64	Z6	Primary	02/14/05	Radium-228	1.85	0.3	0.601	Filtered		ES
RD-64	Z6	Primary	02/14/05	Uranium-233/234	2.7	0.24	0.044	Filtered		ES
RD-64	Z6	Primary	02/14/05	Uranium-235	0.09 J	0.037	0.029	Filtered		ES
RD-64	Z6	Primary	02/14/05	Uranium-238	1.8	0.18	0.038	Filtered		ES
RD-64	Z6	Primary	08/31/05	Radium-226	1.32	0.52	0.633	Filtered		ES
RD-64	Z6	Primary	08/31/05	Radium-228	1.84	0.31	0.615	Filtered		ES
RD-64	Z6	Primary	08/31/05	Uranium-233/234	3.39	0.26	0.04	Filtered		ES
RD-64	Z6	Primary	08/31/05	Uranium-235	0.121 J	0.04	0.022	Filtered		ES
RD-64	Z6	Primary	08/31/05	Uranium-238	2.59	0.21	0.032	Filtered		ES
RD-64	Z6	Primary	02/16/06	Radium-226	1.54	0.6	0.757	Filtered		ES
RD-64	Z6	Primary	02/16/06	Radium-228	1.5	0.2	0.379	Filtered		ES
RD-64	Z6	Primary	02/16/06	Uranium-233/234	3.01	0.26	0.046	Filtered		ES
RD-64	Z6	Primary	02/16/06	Uranium-235	0.124 J	0.046	0.03	Filtered		ES
RD-64	Z6	Primary	02/16/06	Uranium-238	2.31	0.21	0.035	Filtered		ES
RD-64	Z6	Primary	08/17/06	Radium-226	1.42	0.65	0.791	Filtered		ES
RD-64	Z6	Primary	08/17/06	Radium-228	1.46	0.24	0.488	Filtered		ES
RD-64	Z6	Primary	08/17/06	Uranium-233/234	3.57	0.29	0.042	Filtered		ES
RD-64	Z6	Primary	08/17/06	Uranium-235	0.149 J	0.051	0.027	Filtered		ES
RD-64	Z6	Primary	08/17/06	Uranium-238	2.79	0.24	0.036	Filtered		ES
RD-64	Z6	Primary	02/08/07	Radium-226	1.62	0.66	0.815	Filtered		ES
RD-64	Z6	Primary	02/08/07	Radium-228	1.2	0.35	0.381	Filtered		ES
RD-64	Z6	Primary	02/08/07	Uranium-234	3.45	0.3	0.047	Filtered		ES
RD-64	Z6	Primary	02/08/07	Uranium-235	0.154 J	0.049	0.03	Filtered		ES
RD-64	Z6	Primary	02/08/07	Uranium-238	2.62	0.24	0.044	Filtered		ES
RD-64	Z2	Primary	08/10/07	Radium-226	1.24	0.56	0.654	Filtered		ES
RD-64	Z2	Primary	08/10/07	Radium-228	1.33	0.26	0.547	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-V
RESULTS OF ANALYSES FOR SPECIFIC ISOTOPES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-64	Z2	Primary	08/10/07	Uranium-233/234	3.11	0.26	0.033	Filtered		ES
RD-64	Z2	Primary	08/10/07	Uranium-235	0.075 J	0.036	0.027	Filtered		ES
RD-64	Z2	Primary	08/10/07	Uranium-238	2.45	0.22	0.028	Filtered		ES
RD-64	Z7	Primary	02/06/08	Radium-226	1.12	0.58	0.752	Filtered		ES
RD-64	Z7	Primary	02/06/08	Radium-228	1.44	0.19	0.373	Filtered		ES
RD-64	Z7	Primary	02/06/08	Strontium-90	0.062 U	0.26	0.486	Filtered		ES
RD-64	Z7	Primary	02/06/08	Uranium-234	2.96	0.27	0.055	Filtered		ES
RD-64	Z7	Primary	02/06/08	Uranium-235	0.161 J	0.056	0.035	Filtered		ES
RD-64	Z7	Primary	02/06/08	Uranium-238	2.18	0.22	0.047	Filtered		ES
RD-64	Z7	Primary	08/07/08	Radium-226	1.61	0.61	0.656	Filtered		ES
RD-64	Z7	Primary	08/07/08	Radium-228	0.843 J	0.76	0.448	Filtered		ES
RD-64	Z7	Primary	08/07/08	Uranium-234	2.88	0.32	0.048	Filtered		ES
RD-64	Z7	Primary	08/07/08	Uranium-235	0.112 J	0.044	0.033	Filtered		ES
RD-64	Z7	Primary	08/07/08	Uranium-238	2.35	0.27	0.044	Filtered		ES
RD-69		Primary	05/28/98	Radium-226	106 U	---	106	Filtered		TN
RD-69		Primary	05/28/98	Uranium-235	33 U	---	33	Filtered		TN
RD-75		Primary	08/30/05	Radium-226	0.789 J	0.37	0.492	Filtered		ES
RD-75		Primary	08/30/05	Radium-228	2.69	0.42	0.602	Filtered		ES
RD-88		Primary	08/25/05	Radium-226	0.314 U	0.4	0.673	Filtered		ES
RD-88		Primary	08/25/05	Radium-228	0.067 U	0.048	0.621	Filtered		ES
RD-90		Primary	08/25/05	Radium-226	0.148 U	0.41	0.732	Filtered		ES
RD-90		Primary	08/25/05	Radium-228	0.242 U	0.13	0.67	Filtered		ES
RD-90		Primary	08/25/05	Uranium-233/234	13.9	0.93	0.095	Filtered		ES
RD-90		Primary	08/25/05	Uranium-235	0.649 J	0.12	0.042	Filtered		ES
RD-90		Primary	08/25/05	Uranium-238	12.3	0.83	0.09	Filtered		ES
RD-94		Primary	08/25/05	Radium-226	0.71 J	0.45	0.605	Filtered		ES
RD-94		Primary	08/25/05	Radium-228	0.025 U	0.069	0.49	Filtered		ES
RD-96		Primary	05/09/06	Radium-226	1.46	0.7	0.821	Unfiltered		ES
RD-96		Primary	05/09/06	Radium-228	1.56	0.28	0.512	Unfiltered		ES
RD-96		Primary	05/09/06	Uranium-233/234	6.24	0.45	0.058	Unfiltered		ES
RD-96		Primary	05/09/06	Uranium-235	0.356 J	0.074	0.027	Unfiltered		ES
RD-96		Primary	05/09/06	Uranium-238	6.07	0.44	0.052	Unfiltered		ES
RD-97		Primary	05/09/06	Radium-226	1.11	0.64	0.813	Filtered		ES
RD-97		Primary	05/09/06	Radium-226	3.46	0.89	0.812	Unfiltered		ES
RD-97		Primary	05/09/06	Radium-228	2.55	0.4	0.476	Filtered		ES
RD-97		Primary	05/09/06	Radium-228	5.16	0.36	0.468	Unfiltered		ES
RD-97		Primary	05/09/06	Uranium-233/234	7.16	0.5	0.06	Unfiltered		ES
RD-97		Primary	05/09/06	Uranium-235	0.429 J	0.082	0.027	Unfiltered		ES
RD-97		Primary	05/09/06	Uranium-238	6.35	0.46	0.056	Unfiltered		ES
RD-98		Primary	06/26/08	Americium-241	5.44 U	---	5.44	Filtered		ES
RD-98		Primary	06/26/08	Americium-241	0.075 U	0.084	0.103	Filtered		ES
RD-98		Primary	06/26/08	Plutonium-238	0.12 U	0.12	0.191	Filtered		ES

See last page of table for notes and abbreviations.

TABLE E-V

RESULTS OF ANALYSES FOR SPECIFIC ISOTOPES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Chatsworth Formation Wells										
RD-98		Primary	06/26/08	Plutonium-239	0.04 U	0.04	0.152	Filtered		ES
RD-98		Primary	06/26/08	Strontium-90	2.35	0.52	0.522	Filtered		ES
RD-98		Primary	06/26/08	Thorium-228	0.046 U	0.04	0.065	Filtered		ES
RD-98		Primary	06/26/08	Thorium-230	-0.003 U	0.034	0.052	Filtered		ES
RD-98		Primary	06/26/08	Thorium-232	0.003 U	0.017	0.027	Filtered		ES
RD-98		Primary	09/11/08	Americium-241	0.831 U	---	0.831	Filtered		ES
RD-98		Primary	09/11/08	Plutonium-238	-0.027 U	0.055	0.139	Filtered		ES
RD-98		Primary	09/11/08	Plutonium-239	-0.018 U	0.018	0.087	Filtered		ES
RD-98		Primary	09/11/08	Radium-226	0.43 U	0.51	0.841	Filtered		ES
RD-98		Primary	09/11/08	Radium-228	0.673 J	0.47	0.37	Filtered		ES
RD-98		Primary	09/11/08	Strontium-90	2.18	0.45	0.423	Filtered		ES
RD-98		Primary	09/11/08	Thorium-228	0.028 U	0.056	0.096	Filtered		ES
RD-98		Primary	09/11/08	Thorium-230	0.035 U	0.042	0.043	Filtered		ES
RD-98		Primary	09/11/08	Thorium-232	0.011 U	0.014	0.027	Filtered		ES
RD-98		Primary	09/11/08	Uranium-234	2.4	0.28	0.037	Filtered		ES
RD-98		Primary	09/11/08	Uranium-235	0.09 J	0.042	0.031	Filtered		ES
RD-98		Primary	09/11/08	Uranium-238	1.85	0.23	0.032	Filtered		ES
RD-98		Primary	11/14/08	Strontium-90	2.63	0.51	0.46	Filtered		ES
RD-98		Primary	11/14/08	Strontium-90	2.3	0.46	0.422	Unfiltered		ES
WS-04A		Primary	03/18/93	Radium-226	0.6 U	---	0.6	Filtered		CEP
WS-04A		Primary	03/18/93	Radium-228	1 U	---	1	Filtered		CEP
WS-04A		Primary	06/10/93	Radium-226	2.3	1	0.6	Filtered		CEP
WS-04A		Primary	08/23/93	Radium-226	0.6 U	---	0.6	Filtered		CEP
WS-04A		Primary	11/04/93	Radium-226	0.79	0.25	0.14	Filtered		CEP
WS-13		Duplicate	11/01/89	Polonium-210	0.0103 U	0.014	---	Filtered		UST
WS-13		Duplicate	11/01/89	Polonium-210	0.0533	0.025	---	Unfiltered		UST
WS-13		Duplicate	11/01/89	Radium-226	0.484	0.152	---	Filtered		UST
WS-13		Duplicate	11/01/89	Radium-226	0.487	0.143	---	Unfiltered		UST
WS-13		Duplicate	11/01/89	Radium-228	0.859	0.531	---	Filtered		UST
WS-13		Duplicate	11/01/89	Radium-228	0.879	0.479	---	Unfiltered		UST
WS-13		Duplicate	11/01/89	Thorium-228	0.0906	0.039	---	Filtered		UST
WS-13		Duplicate	11/01/89	Thorium-228	0.039	0.032	---	Unfiltered		UST
WS-13		Duplicate	11/01/89	Thorium-230	0.0163	0.011	---	Filtered		UST
WS-13		Duplicate	11/01/89	Thorium-230	0.00562 U	0.008	---	Unfiltered		UST
WS-13		Duplicate	11/01/89	Thorium-232	0.0507	0.020	---	Filtered		UST
WS-13		Duplicate	11/01/89	Thorium-232	0.0262	0.015	---	Unfiltered		UST
WS-13		Primary	11/01/89	Uranium-233/234	2.01	0.226	---	Filtered		UST
WS-13		Duplicate	11/01/89	Uranium-233/234	2.01	0.226	---	Filtered		UST
WS-13		Primary	11/01/89	Uranium-235	0.0697	0.024	---	Filtered		UST
WS-13		Primary	11/01/89	Uranium-238	1.31	0.159	---	Filtered		UST
Private Off-site Wells										
OS-01		Primary	08/15/94	Strontium-90	-0.33 U	0.75	1.3	Filtered		LAS
OS-02		Primary	08/15/94	Strontium-90	-0.13 U	0.59	1	Filtered		LAS
OS-03		Primary	08/15/94	Strontium-90	-0.17 U	0.63	1.1	Filtered		LAS

See last page of table for notes and abbreviations.

TABLE E-V
RESULTS OF ANALYSES FOR SPECIFIC ISOTOPES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Private Off-site Wells										
OS-04		Primary	08/15/94	Strontium-90	0.18 U	0.74	1.3	Filtered		LAS
OS-08		Primary	08/15/94	Strontium-90	0.39 U	0.67	1.1	Filtered		LAS
OS-09R		Primary	01/26/04	Thorium-228	-0.004 U	0.008	0.029	Filtered		ES
OS-09R		Primary	01/26/04	Thorium-230	-0.012 U	0.054	0.103	Filtered		ES
OS-09R		Primary	01/26/04	Thorium-232	-0.008 U	0.015	0.037	Filtered		ES
OS-10		Primary	08/05/94	Strontium-90	-0.48 U	0.65	1.2	Filtered		LAS
OS-16		Primary	11/01/89	Polonium-210	0.0265	0.022	---	Filtered		UST
OS-16		Primary	11/01/89	Polonium-210	0.0357	0.021	---	Unfiltered		UST
OS-16		Primary	11/01/89	Radium-226	0.968	0.227	---	Filtered		UST
OS-16		Primary	11/01/89	Radium-226	1.07	0.239	---	Unfiltered		UST
OS-16		Duplicate	11/01/89	Radium-226	1.09	0.23	---	Filtered		UST
OS-16		Duplicate	11/01/89	Radium-226	0.993	0.223	---	Unfiltered		UST
OS-16		Primary	11/01/89	Radium-228	1.5	0.723	---	Filtered		UST
OS-16		Primary	11/01/89	Radium-228	1.94	0.767	---	Unfiltered		UST
OS-16		Primary	11/01/89	Radium-228	1.94	0.767	---	Unfiltered		UST
OS-16		Primary	11/01/89	Radium-228	0.0357	0.021	---	Unfiltered		UST
OS-16		Duplicate	11/01/89	Radium-228	1.62	0.587	---	Filtered		UST
OS-16		Duplicate	11/01/89	Radium-228	1.84	0.644	---	Unfiltered		UST
OS-16		Primary	11/01/89	Thorium-228	0.0319 U	0.035	---	Filtered		UST
OS-16		Primary	11/01/89	Thorium-228	0.109	0.041	---	Unfiltered		UST
OS-16		Duplicate	11/01/89	Thorium-228	0.025 U	0.03	---	Filtered		UST
OS-16		Duplicate	11/01/89	Thorium-228	0.0456	0.027	---	Unfiltered		UST
OS-16		Primary	11/01/89	Thorium-230	0.00942 U	0.009	---	Filtered		UST
OS-16		Primary	11/01/89	Thorium-230	0.00534 U	0.006	---	Unfiltered		UST
OS-16		Duplicate	11/01/89	Thorium-230	0.00369 U	0.007	---	Filtered		UST
OS-16		Duplicate	11/01/89	Thorium-230	0.00175 U	0.004	---	Unfiltered		UST
OS-16		Primary	11/01/89	Thorium-232	0 U	0.007	---	Filtered		UST
OS-16		Primary	11/01/89	Thorium-232	0.0889	0.027	---	Unfiltered		UST
OS-16		Duplicate	11/01/89	Thorium-232	0 U	0.006	---	Filtered		UST
OS-16		Duplicate	11/01/89	Thorium-232	0 U	0.005	---	Unfiltered		UST
OS-16		Primary	11/01/89	Uranium-233/234	2.42	0.275	---	Filtered		UST
OS-16		Duplicate	11/01/89	Uranium-233/234	2.48	0.277	---	Filtered		UST
OS-16		Primary	11/01/89	Uranium-235	0.0541	0.023	---	Filtered		UST
OS-16		Primary	11/01/89	Uranium-235	0.084	0.029	---	Filtered		UST
OS-16		Duplicate	11/01/89	Uranium-235	0.0541	0.023	---	Filtered		UST
OS-16		Primary	11/01/89	Uranium-238	1.99	0.25	---	Filtered		UST
OS-16		Primary	11/01/89	Uranium-238	2.03	0.237	---	Filtered		UST
OS-16		Primary	11/01/89	Uranium-238	1.07	0.239	---	Unfiltered		UST
OS-16		Duplicate	11/01/89	Uranium-238	1.99	0.25	---	Filtered		UST
OS-21		Primary	11/01/89	Radium-226	0.756	0.189	---	Filtered		UST
OS-21		Primary	11/01/89	Radium-226	0.778	0.196	---	Unfiltered		UST
OS-21		Primary	11/01/89	Radium-228	1.95	0.704	---	Filtered		UST
OS-21		Primary	11/01/89	Radium-228	1.46	0.597	---	Unfiltered		UST
OS-21		Primary	11/01/89	Thorium-228	0.149	0.047	---	Filtered		UST

See last page of table for notes and abbreviations.

TABLE E-V

RESULTS OF ANALYSES FOR SPECIFIC ISOTOPES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identification	Sample Port	Sample Type	Date Sampled	Radionuclide	Result (pCi/L) Activity	Error	MDA	Sample Handling	Sample Comments	Lab
Private Off-site Wells										
OS-21		Primary	11/01/89	Thorium-228	0 U	0.036	---	Unfiltered		UST
OS-21		Primary	11/01/89	Thorium-230	0.0795	0.027	---	Filtered		UST
OS-21		Primary	11/01/89	Thorium-230	0.00359 U	0.005	---	Unfiltered		UST
OS-21		Primary	11/01/89	Thorium-232	0.0659	0.025	---	Filtered		UST
OS-21		Primary	11/01/89	Thorium-232	0 U	0.005	---	Unfiltered		UST
OS-21		Primary	11/01/89	Uranium-233/234	1.54	0.185	---	Filtered		UST
OS-21		Primary	11/01/89	Uranium-235	0.0306	0.016	---	Filtered		UST
OS-21		Primary	11/01/89	Uranium-238	1.06	0.137	---	Filtered		UST

TABLE E-V
RESULTS OF ANALYSES FOR SPECIFIC ISOTOPES IN GROUNDWATER
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

NOTES AND ABBREVIATIONS

CEP = Controls for Environmental Pollution, Santa Fe, New Mexico
DL = Davi Laboratories, Pinole, California
ES = Eberline Services, (formerly Thermo Retec), Richmond, California
IT = International Technologies, Inc., (formerly United States Testing), Richland, Washington
LAS = LAS Laboratories, (formerly Lockheed Martin), Las Vegas, Nevada
STL = Severn Trent Laboratories, (formerly International Technologies, Inc.), Richland, Washington
TN = Thermo NUtech, (formerly Thermoanalytical Inc. (TMA/NORCAL)), Richmond, California
TR = Thermo Retec, (formerly Thermo NUtech), Richmond, California
UST = United States Testing, Richland, Washington

MDA = Minimum Detectable Activity.
Z = FLUTe port number.
--- = Data do not exist.
B = Radionuclide detected in associated method blank.
J = Result is less than contract-required MDA and greater than or equal to the MDA.
U = Not detected above the MDA; numerical value is the activity for the radionuclide.
pCi/L = picoCuries per liter.

NOTES:
Radium-226, radium-228, and uranium-235 analyzed by EPA methods 903.1, 904.0, and 908.0 or equivalent or superior in-house laboratory procedures are included in this table. Results of radium-226, radium-228, and uranium-235 analyzed by EPA method 901.1 are included in Table E-IV. Laboratories used the most current promulgated version of each EPA method at the time of analysis.

Any activity detected is reported by the laboratory, though the reported activity may be less than the overall laboratory error. Analytical results that are less than the instrument background count are shown as negative values.

As discussed in Appendix D, project specific MDAs were not always attained due in part to matrix conditions (e.g., dissolved and suspended solids) and limitations in the prescribed analytical methods (e.g., sample volumes, counting times).

Filtered samples were collected using a 0.45 micron filter in the field.

Radionuclides were analyzed according to EPA methods or equivalent or superior in-house laboratory procedures.

Radionuclide	Method(s)
Americium-241	EPA method 901.1 or HASL-300
Plutonium-238	HASL-300 or Ion exchange separation, alpha count
Plutonium-239	HASL-300
Plutonium-239/240	Ion exchange separation, alpha count
Polonium-210	EPA method 901.1
Radium-226	EPA methods 903.0 or 903.1; or RICHRC5005
Radium-228	EPA method 904.0 or RICHRC5005
Radon-222	EPA method 903.1
Strontium-90	EPA method 903.1 or 905.0
Technetium-99	LAL-0169, LAS in-house procedure
Isotopic thorium (thorium-228, thorium-230, and thorium-232)	EPA method 907.0; LAL-0108, LAS in-house procedure; or RICHRC5011
Isotopic uranium (total uranium, U-233/234, U-234, U-235, U-236, and U-238)	EPA methods 907.0, 908.0, or 908.1; ASTM method D3972-82; RICHRC5067; or LAL-0108, LAS in-house procedure.

APPENDIX F

Constituents of Concern and Perchlorate Concentration versus Time Plots

APPENDIX F

CONSTITUENTS OF CONCERN AND PERCHLORATE CONCENTRATION VERSUS TIME PLOTS

TABLE OF CONTENTS

FIGURES (provided electronically on CD)

APPENDIX F

CONSTITUENTS OF CONCERN AND PERCHLORATE CONCENTRATION VERSUS TIME PLOTS

Concentration versus time plots presented in this Appendix include results from 1999 to present for the principal constituents of concern and perchlorate at permitted wells. Plots for 1,3-dinitrobenzene, methyl ethyl ketone (synonym 2-butanone), acetone, ammonia, formaldehyde, trichlorofluoromethane, 1,1,2-trichloro-1,2,2-trifluoroethane (synonym trichlorotrifluoroethane), m- and p-xylenes, and o-xylene are not presented. Tabulated summaries of constituent of concern analytical results are presented for 2008 in this report, for 2000 through and 2007 in Haley & Aldrich reports (2001, 2002a, 2002b, 2003a, 2003b, 2004, 2005, 2006, 2007, 2008a), and for samples collected through 1999 in Groundwater Resources Consultants (2000). Laboratory, field, or equipment contaminants were not included in the plots. Only primary sample results are presented in the plots.

FIGURE F-1. 1,1,1-TCA in STL-IV AREA SHALLOW WELLS

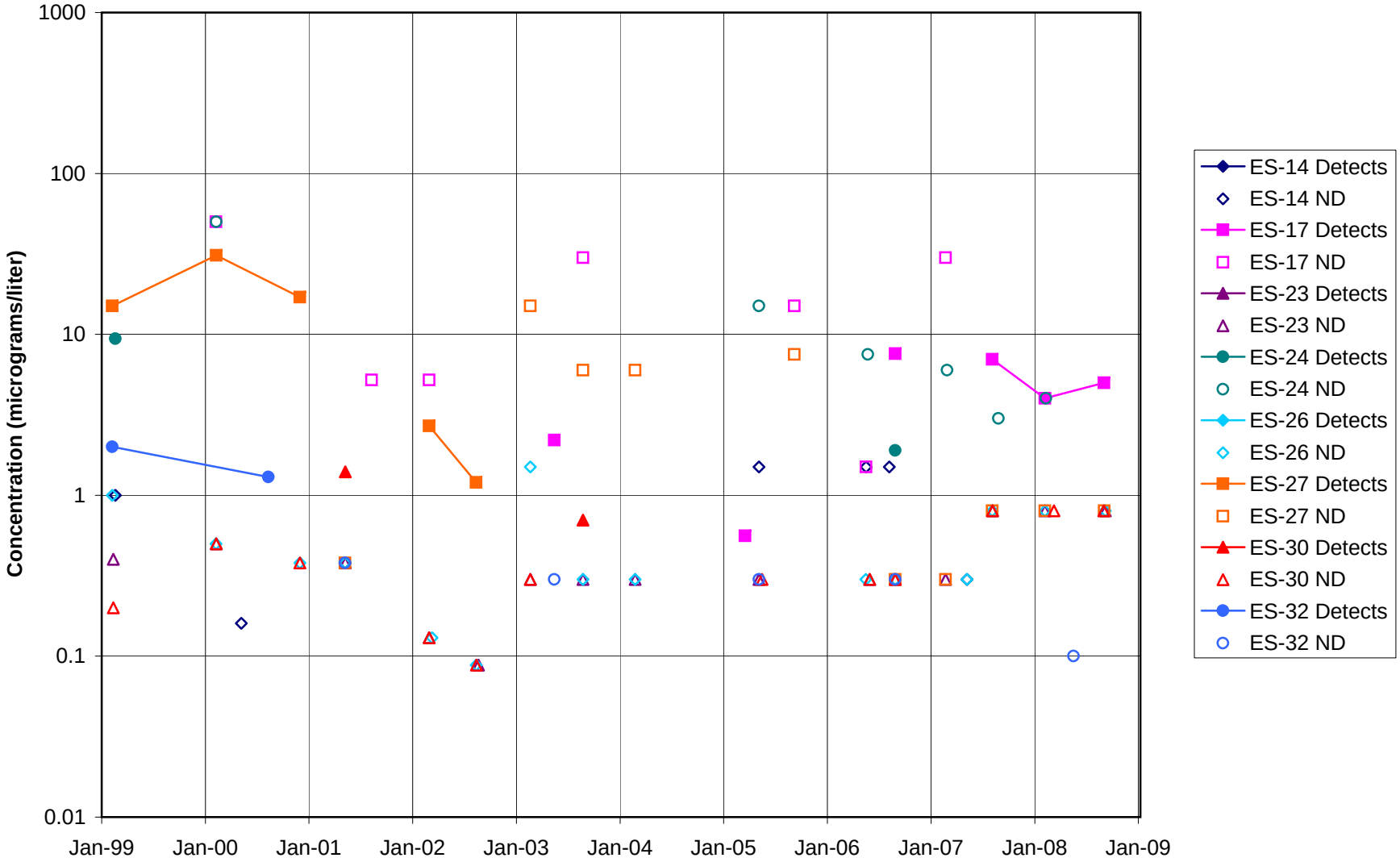


FIGURE F-2. 1,1,1-TCA in STL-IV AREA CHATSWORTH FORMATION WELLS

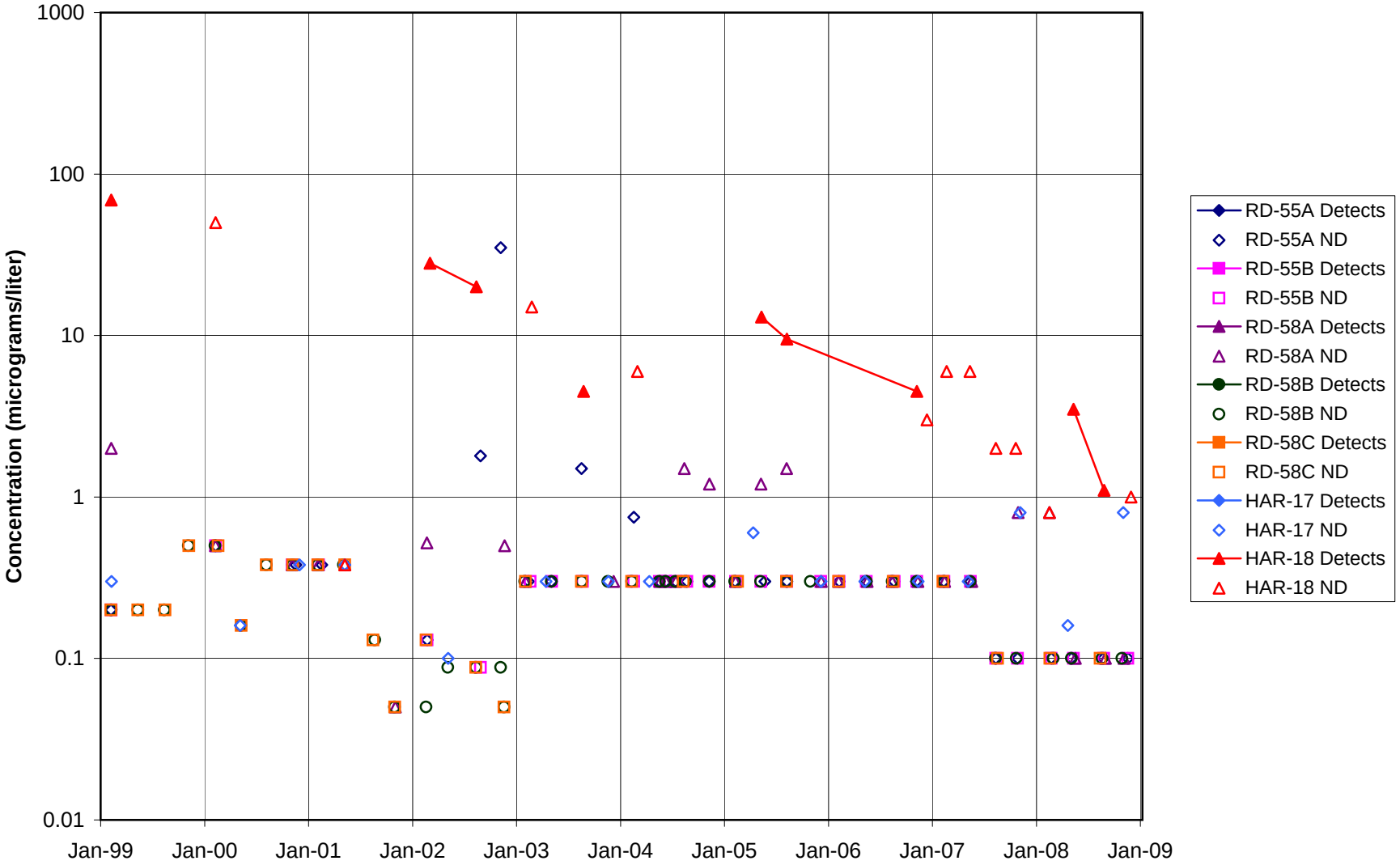


FIGURE F-3. 1,1,1-TCA in MAIN GATE AREA WELLS - 1

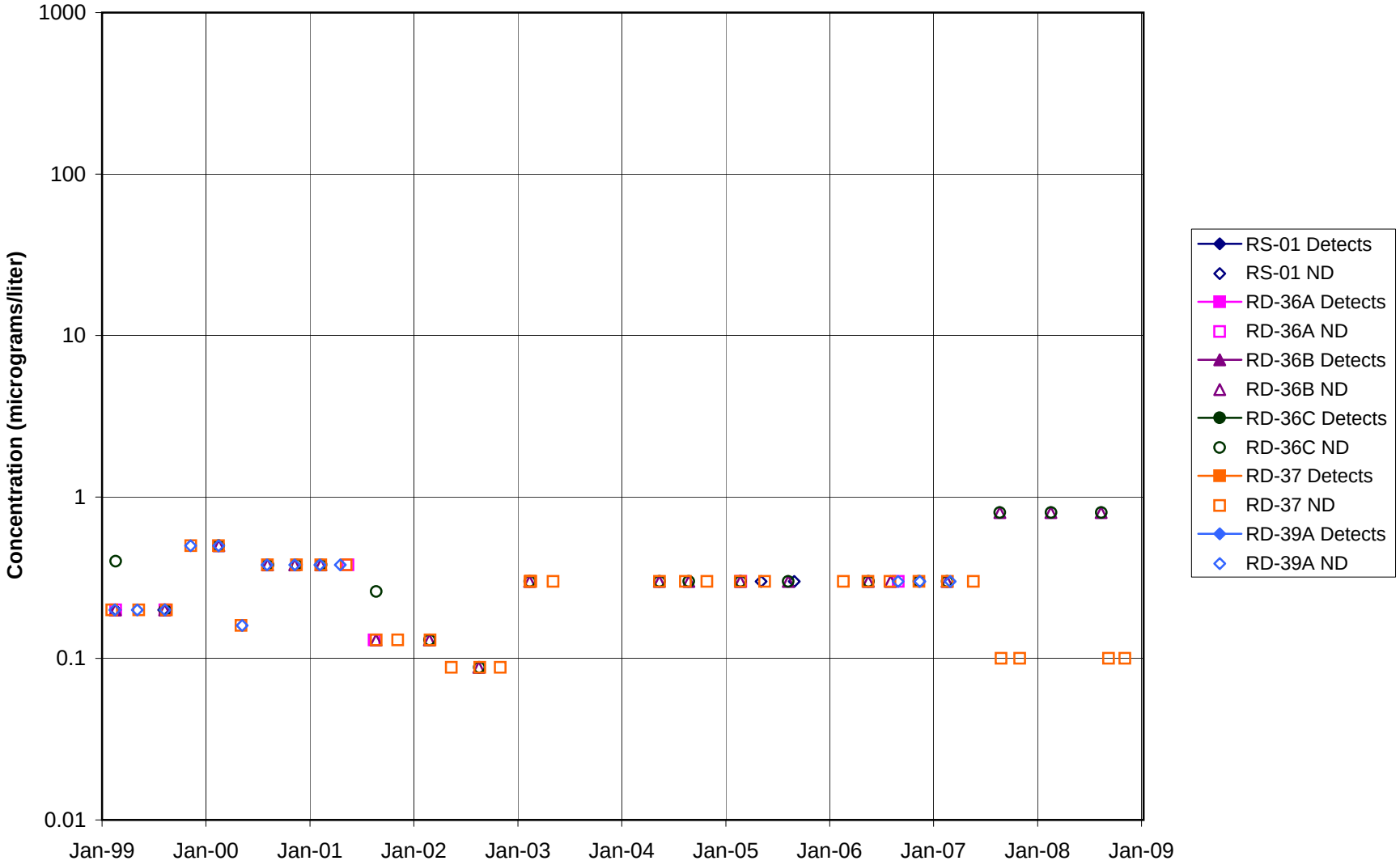


FIGURE F-4. 1,1,1-TCA in MAIN GATE AREA WELLS - 2

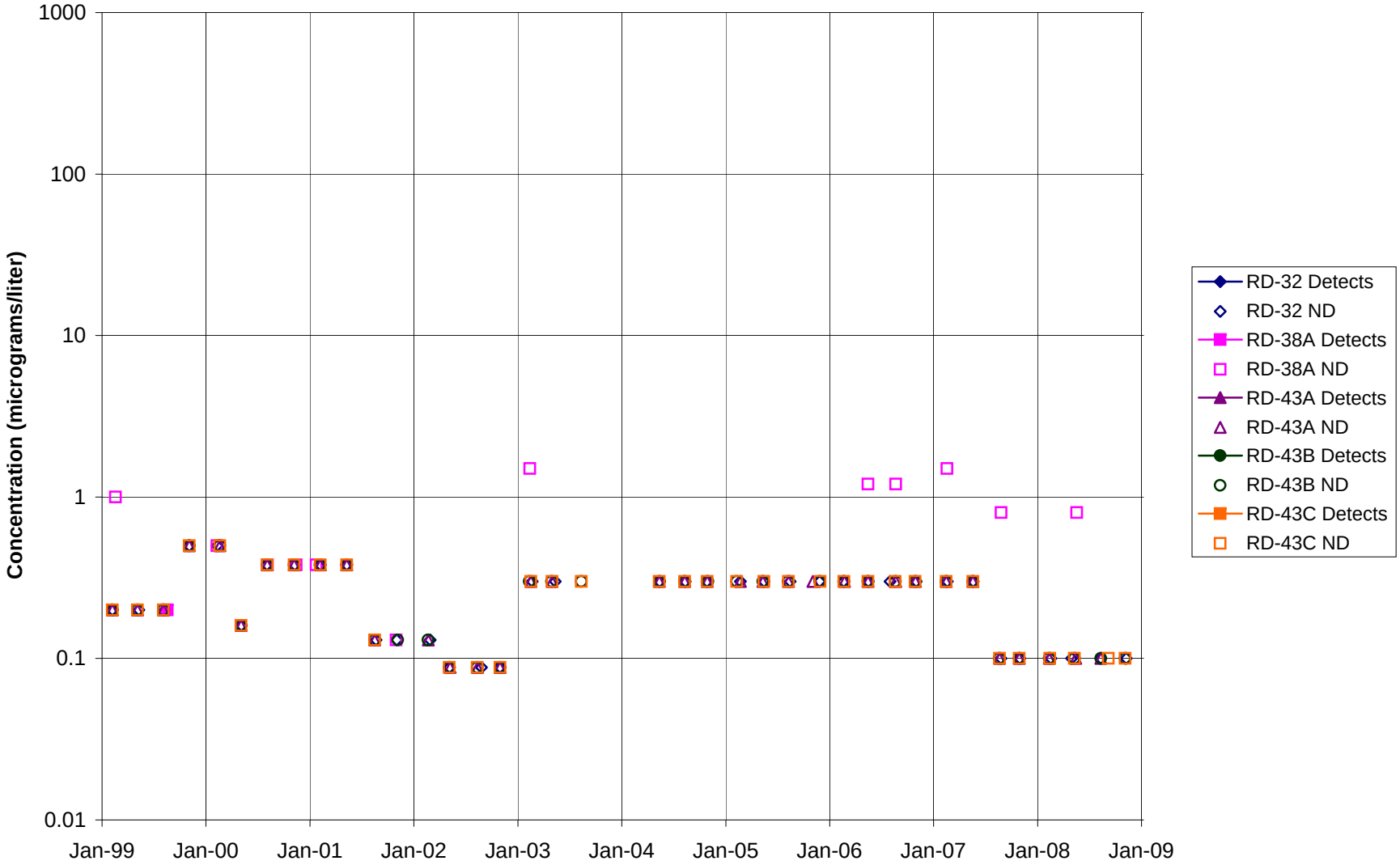


FIGURE F-5. 1,1,1-TCA in APTF, CANYON, & HAPPY VALLEY AREA WELLS - 1

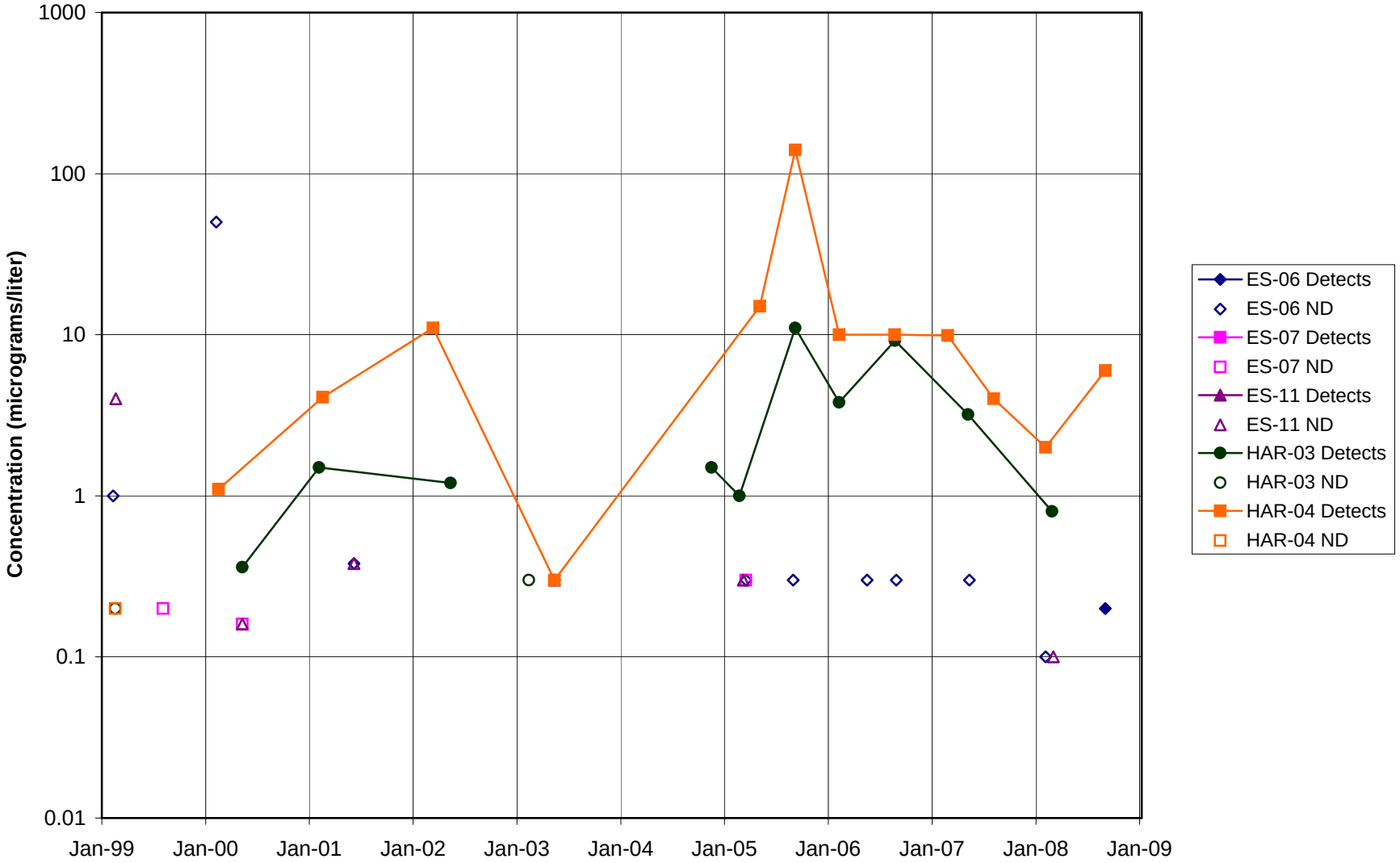


FIGURE F-6. 1,1,1-TCA in APTF, CANYON, & HAPPY VALLEY AREA WELLS - 2

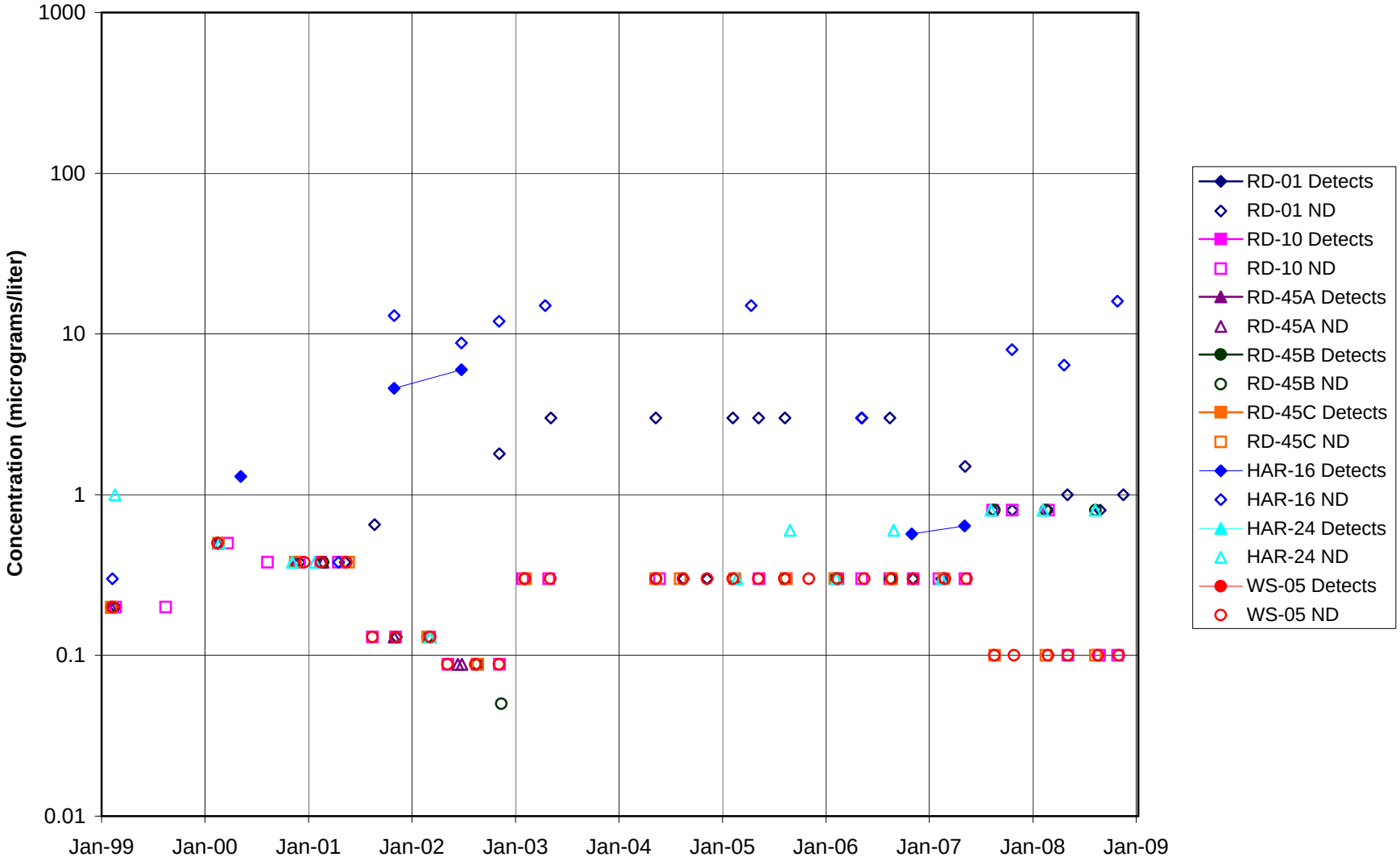


FIGURE F-7. 1,1,1-TCA in CTL-III / PERIMETER POND AREA WELLS

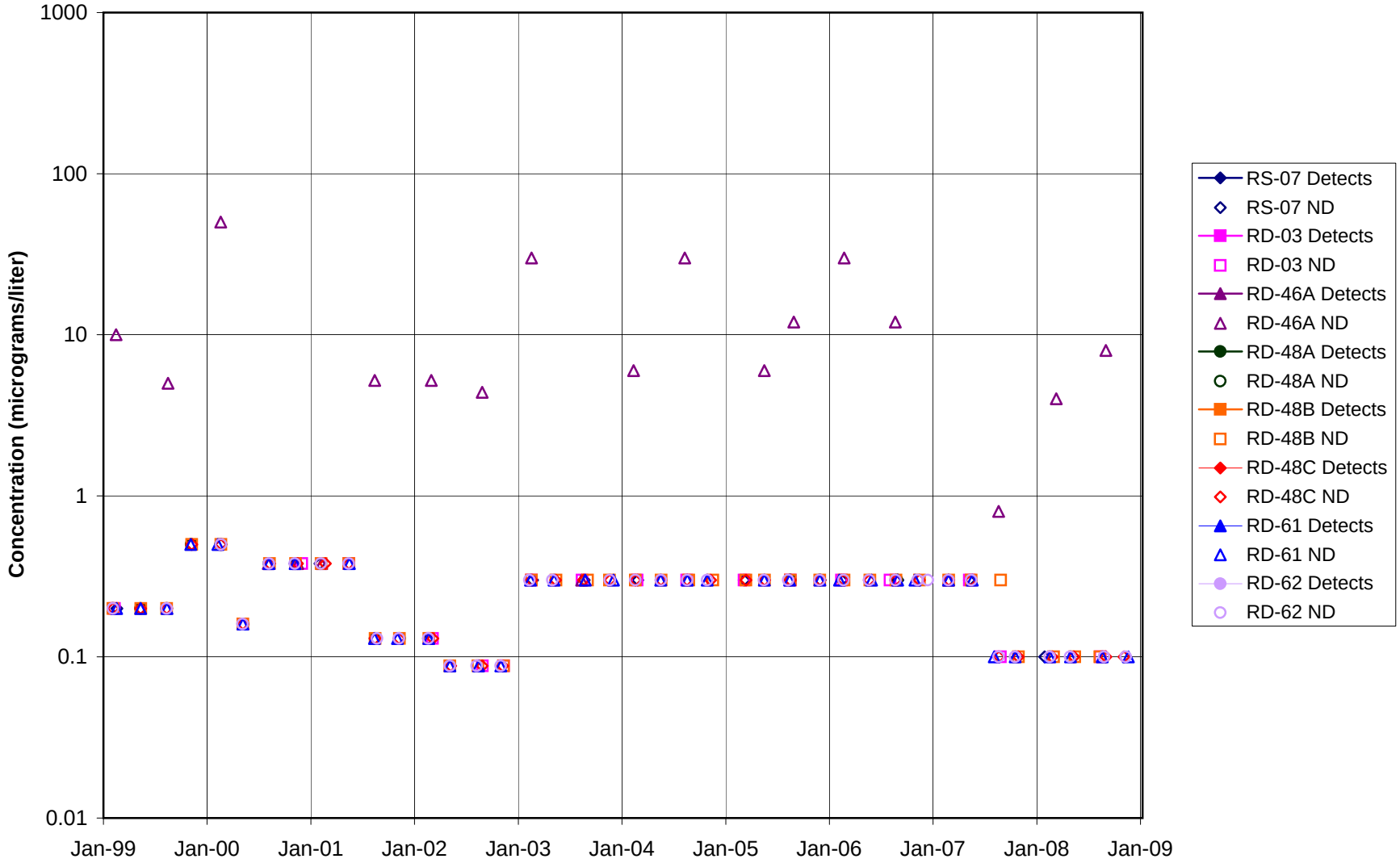


FIGURE F-8. 1,1,1-TCA in BOWL AREA WELLS

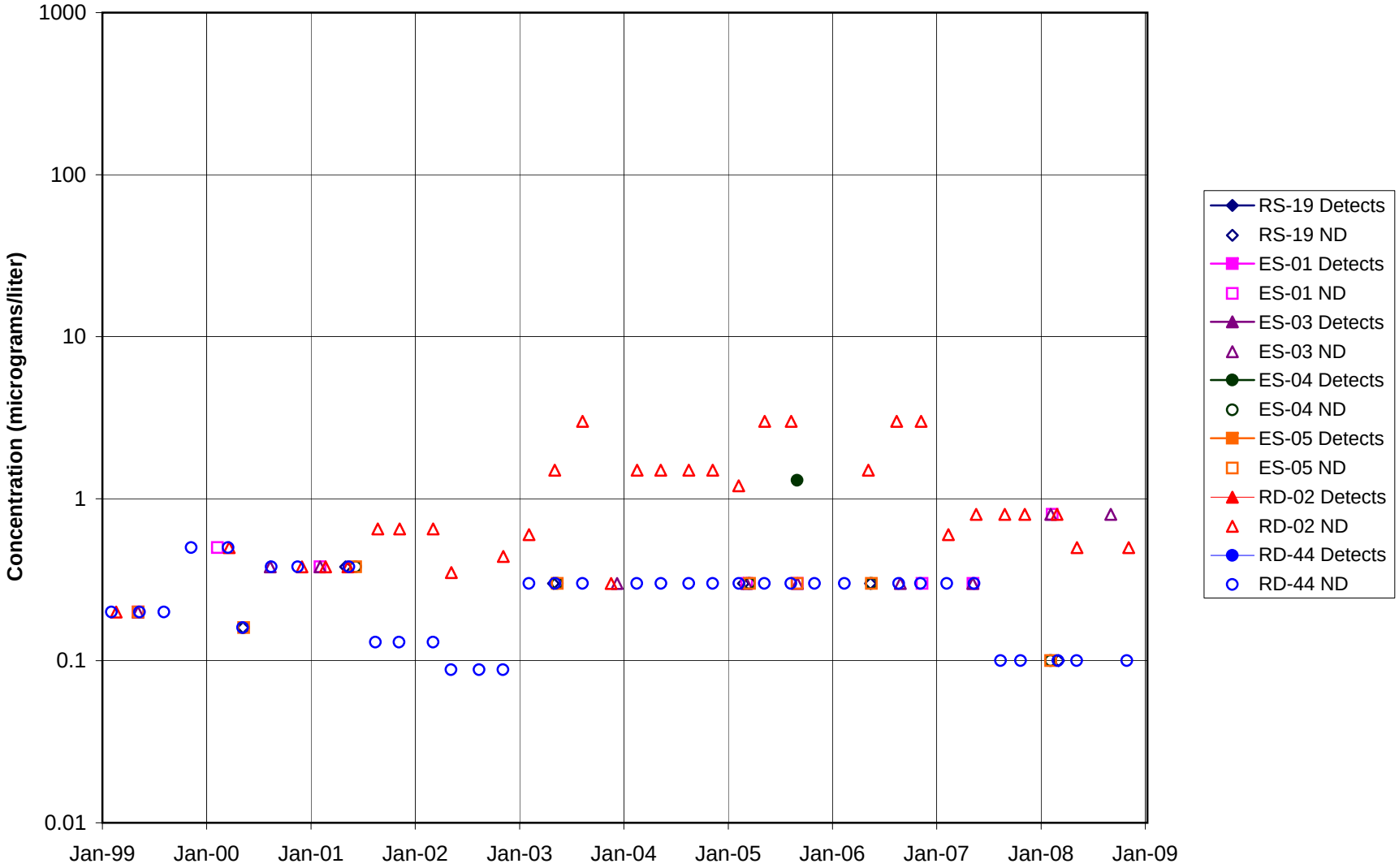


FIGURE F-9. 1,1,1-TCA in ECL AREA WELLS

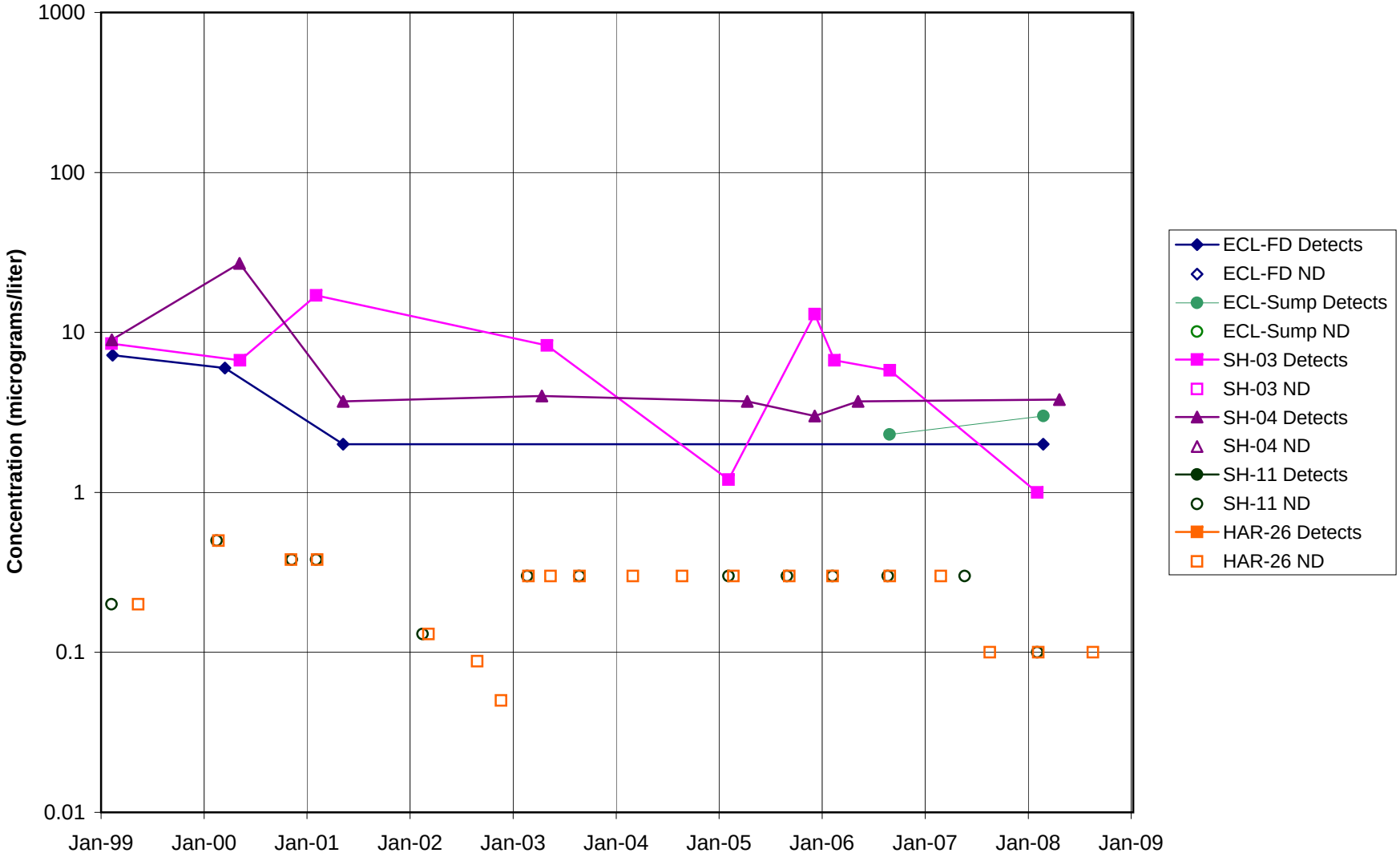


FIGURE F-10. 1,1,1-TCA in FORMER LOX PLANT AREA WELLS

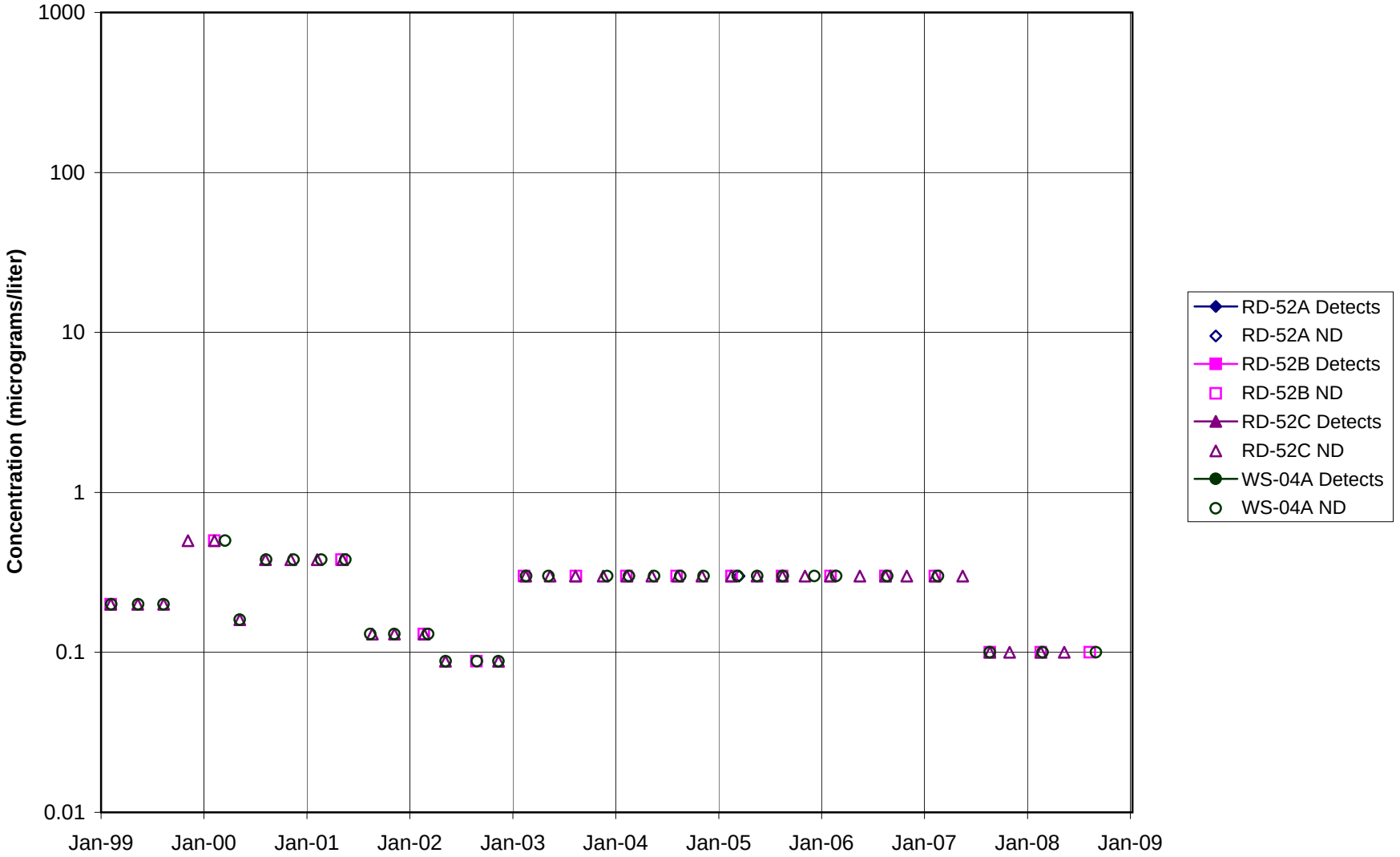


FIGURE F-11. 1,1,1-TCA in RD-09 AREA WELLS

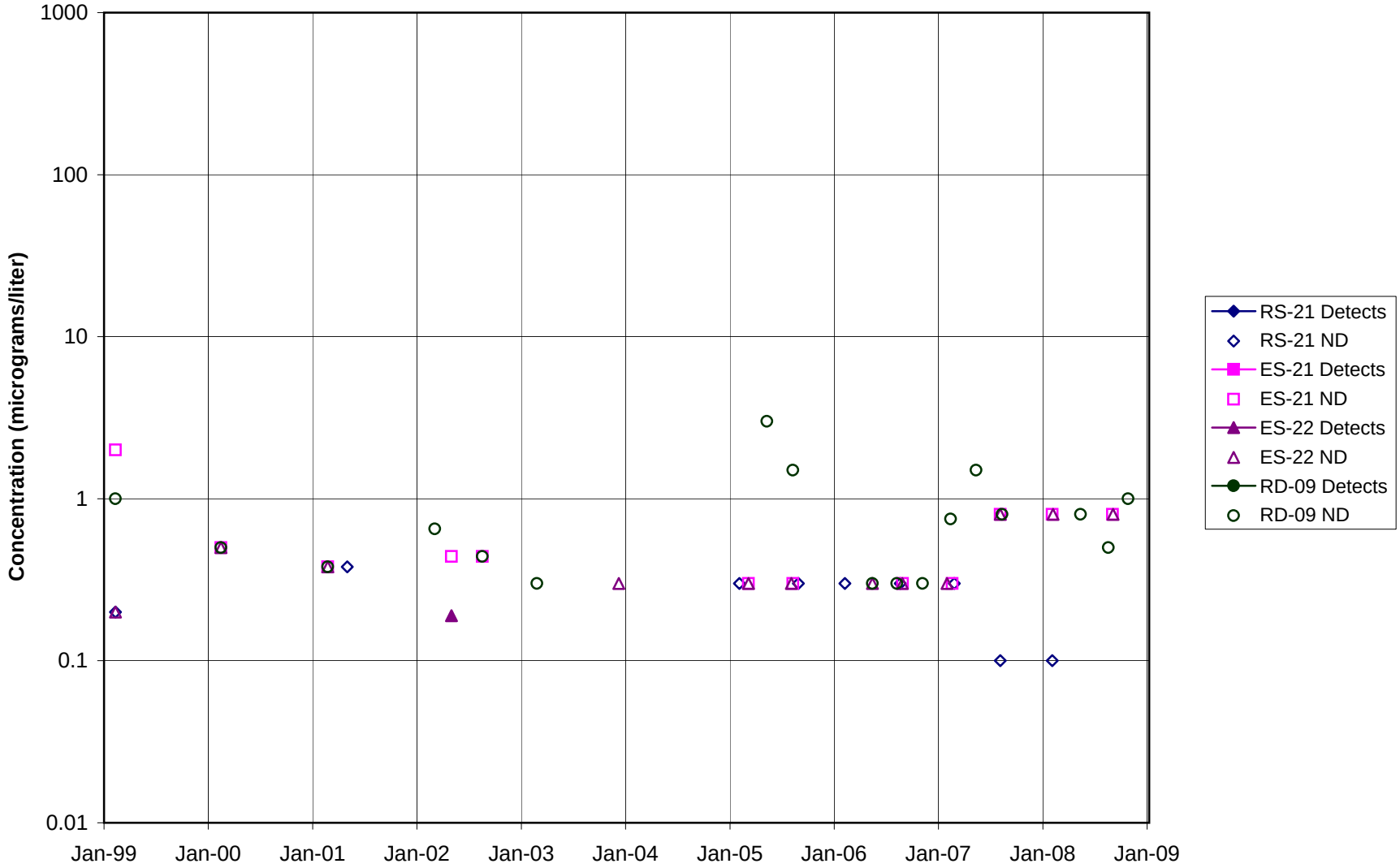


FIGURE F-12. 1,1,1-TCA in HELIPORT, B/204 AREA WELLS

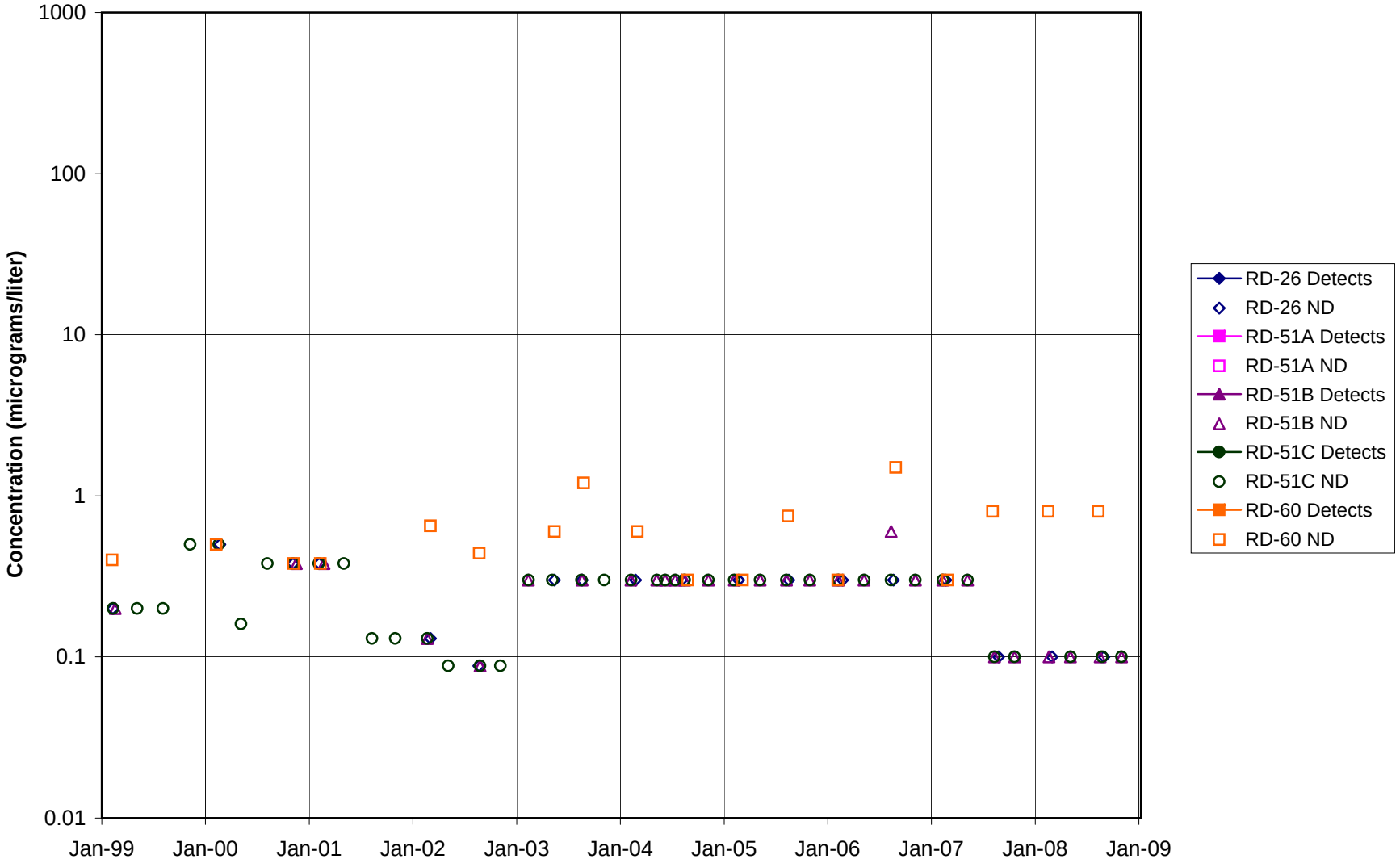


FIGURE F-13. 1,1,1-TCA in ALFA / BRAVO AREA WELLS

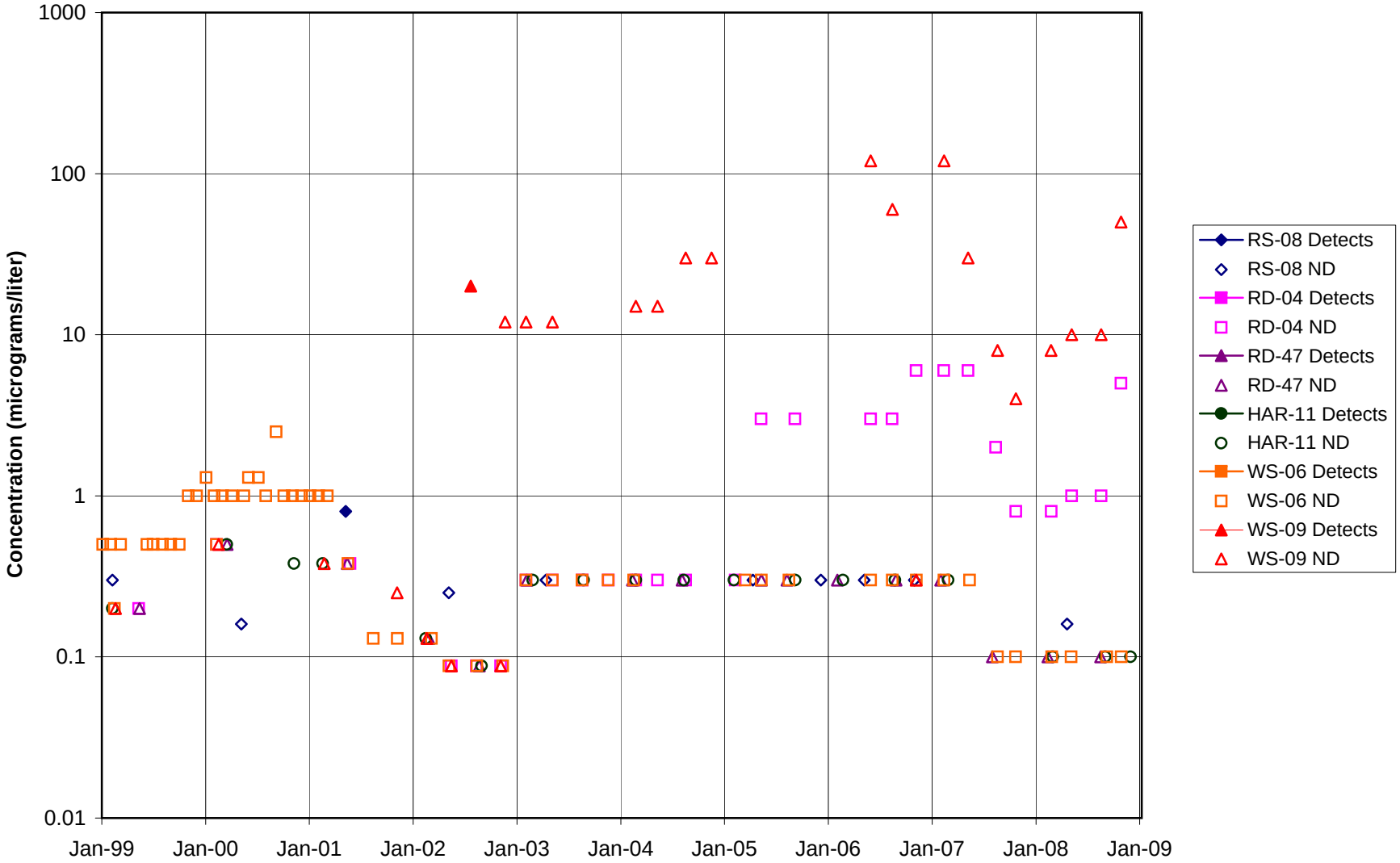


FIGURE F-14. 1,1,1-TCA in SPA AREA WELLS

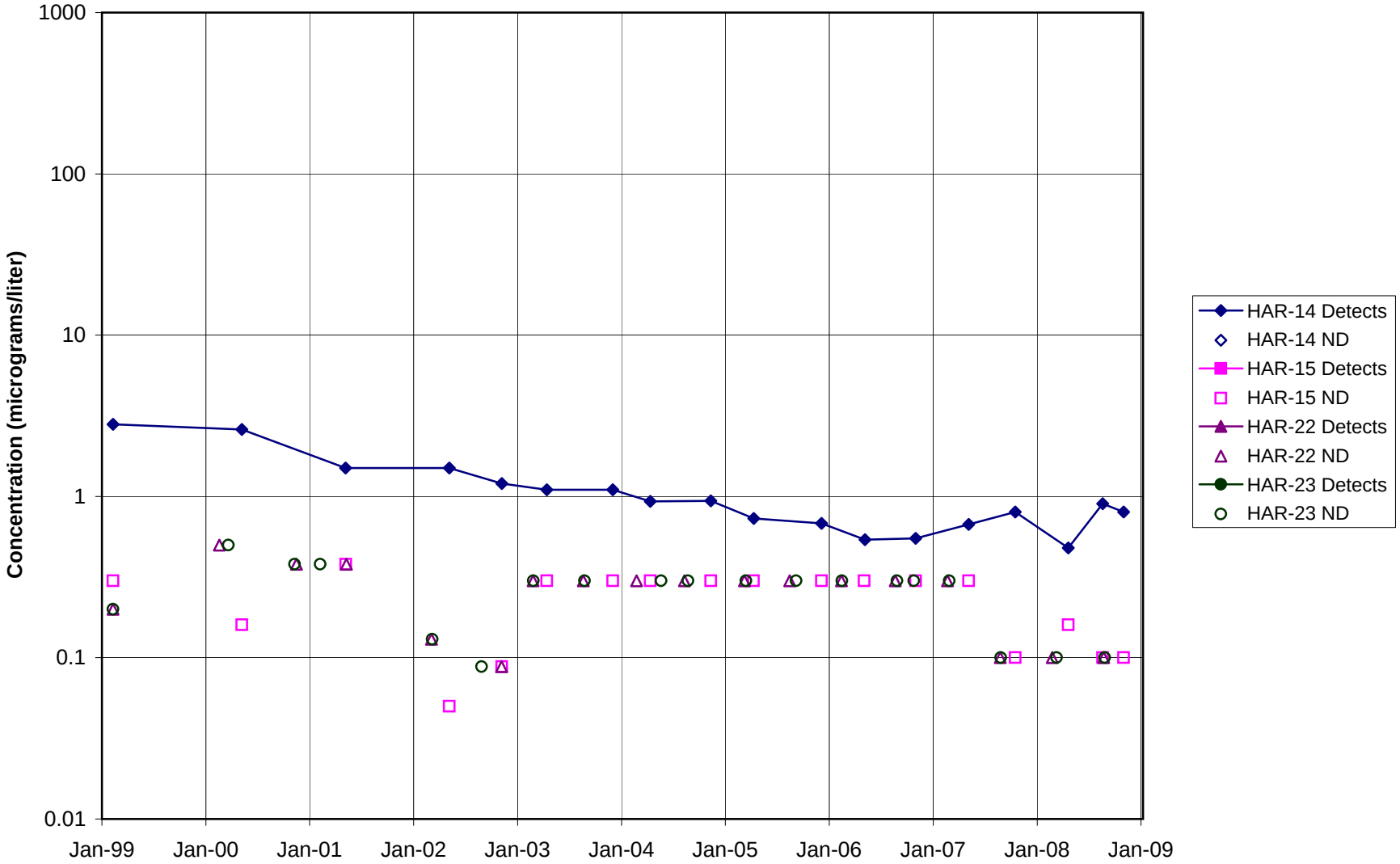


FIGURE F-15. 1,1,1-TCA in COCA / PLF AREA WELLS

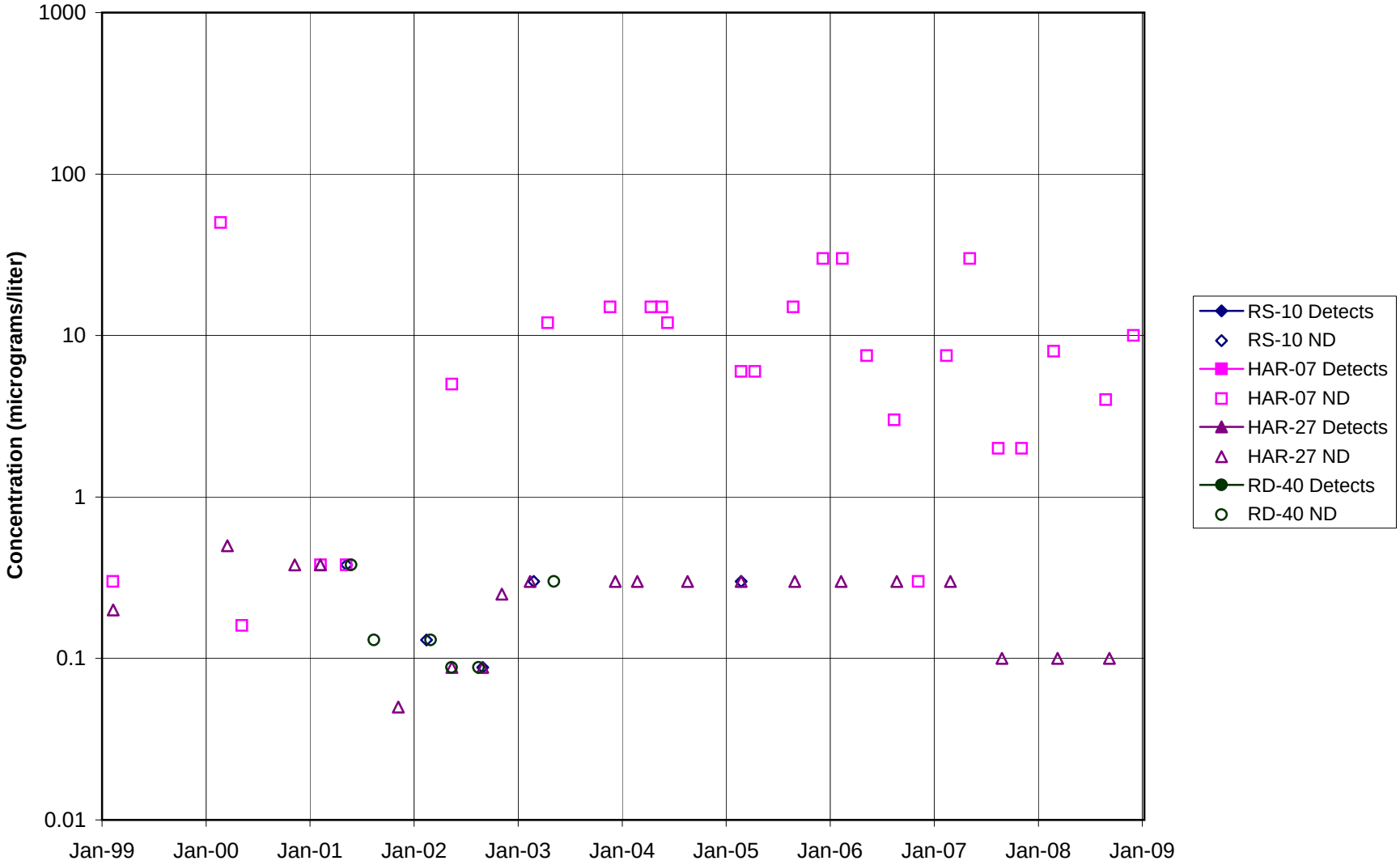


FIGURE F-16. 1,1,1-TCA in DELTA / BUFFER ZONE AREA WELLS

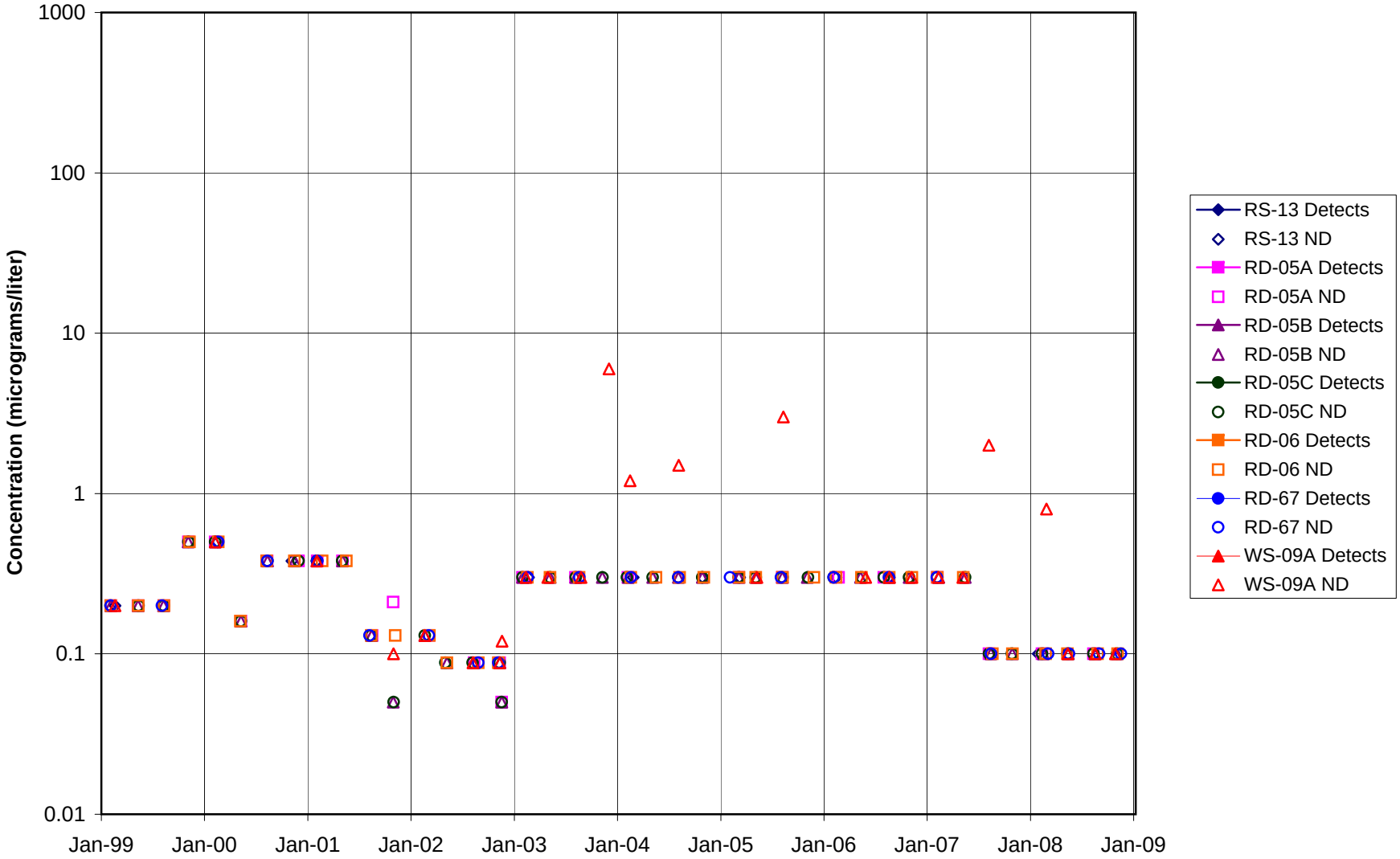


FIGURE F-17. 1,1,1-TCA in AREA IV WELLS

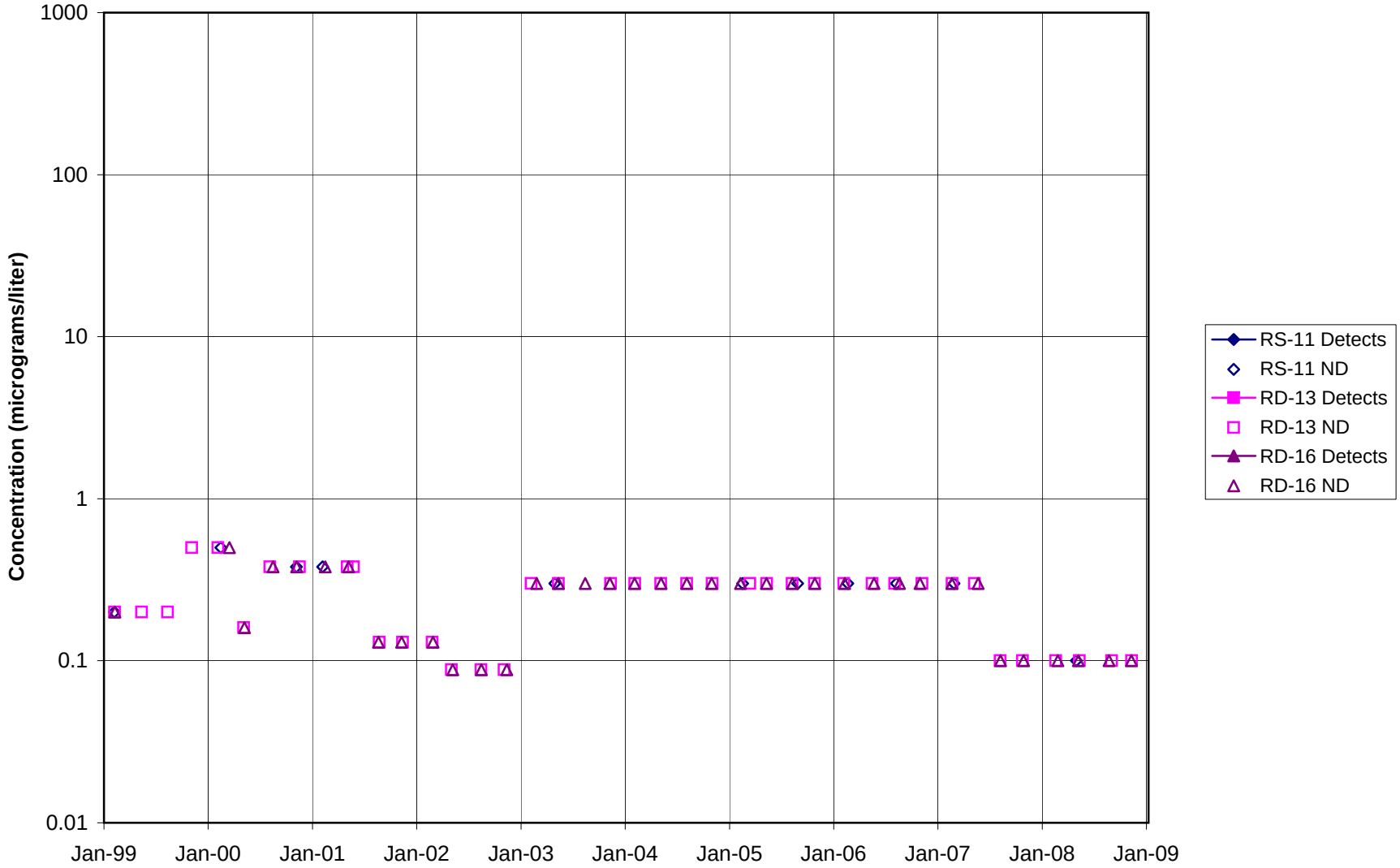


FIGURE F-18. 1,1,2-TCA in STL-IV AREA SHALLOW WELLS

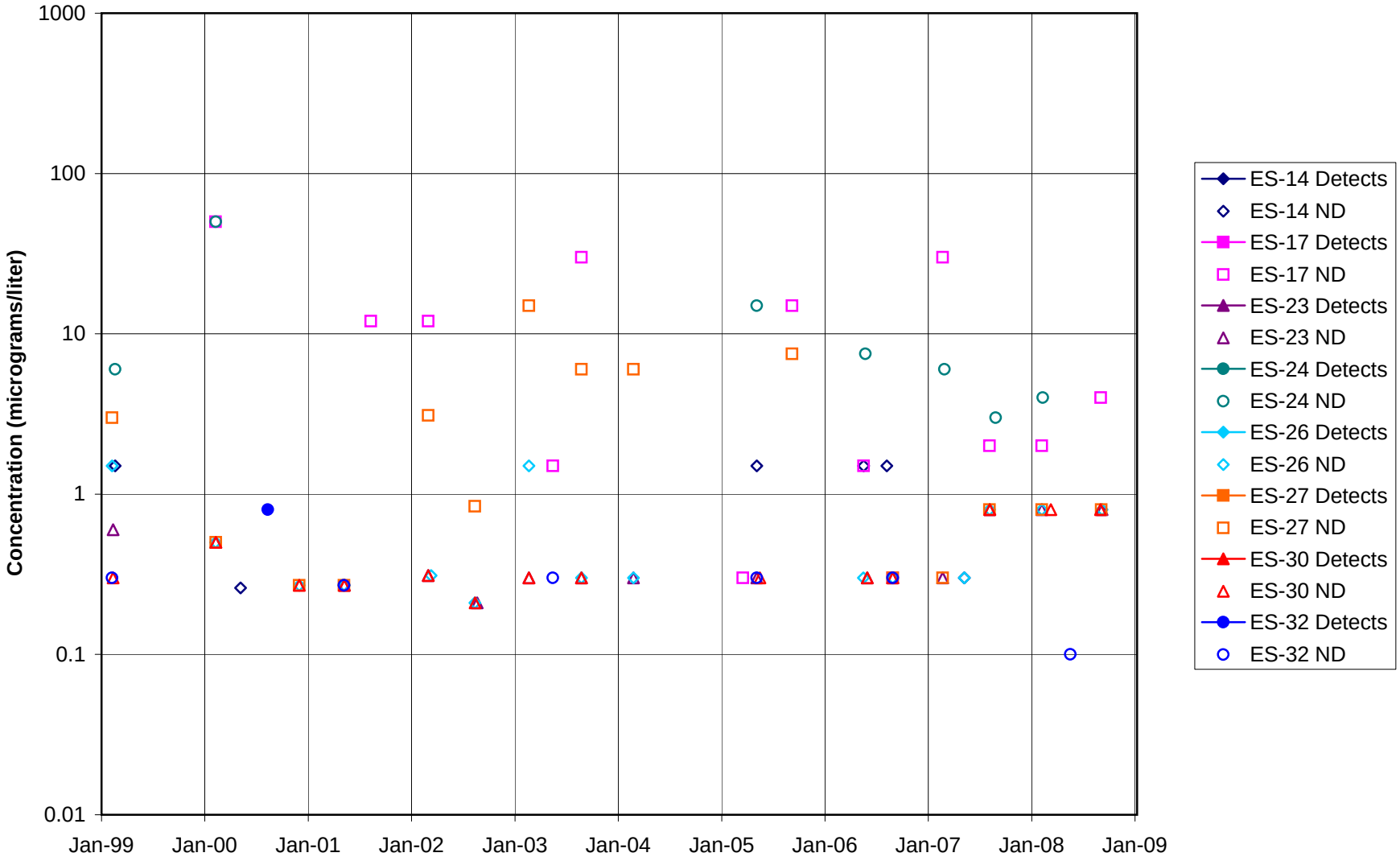


FIGURE F-19. 1,1,2-TCA in STL-IV AREA CHATSWORTH FORMATION WELLS

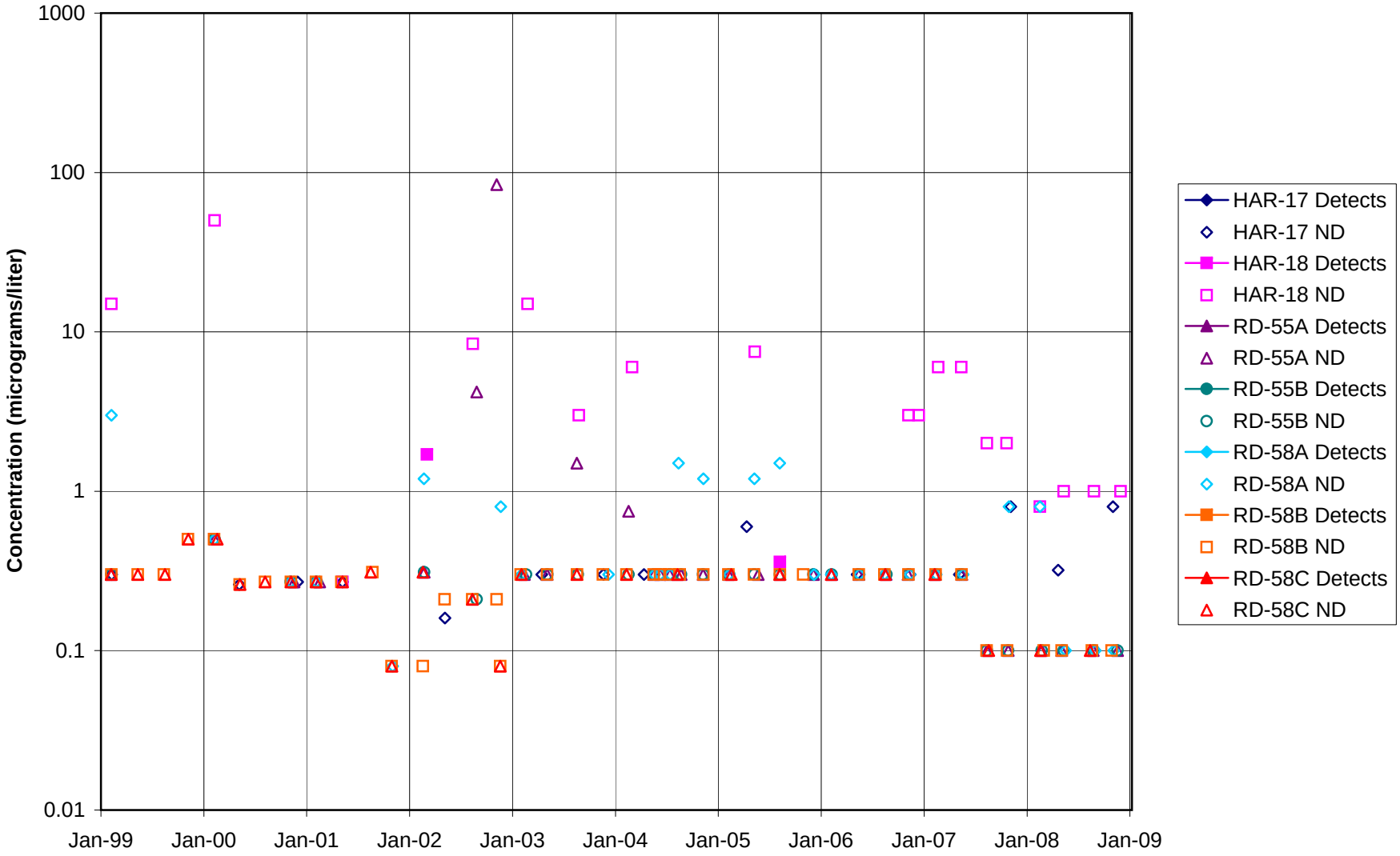


FIGURE F-20. 1,1,2-TCA in MAIN GATE AREA WELLS - 1

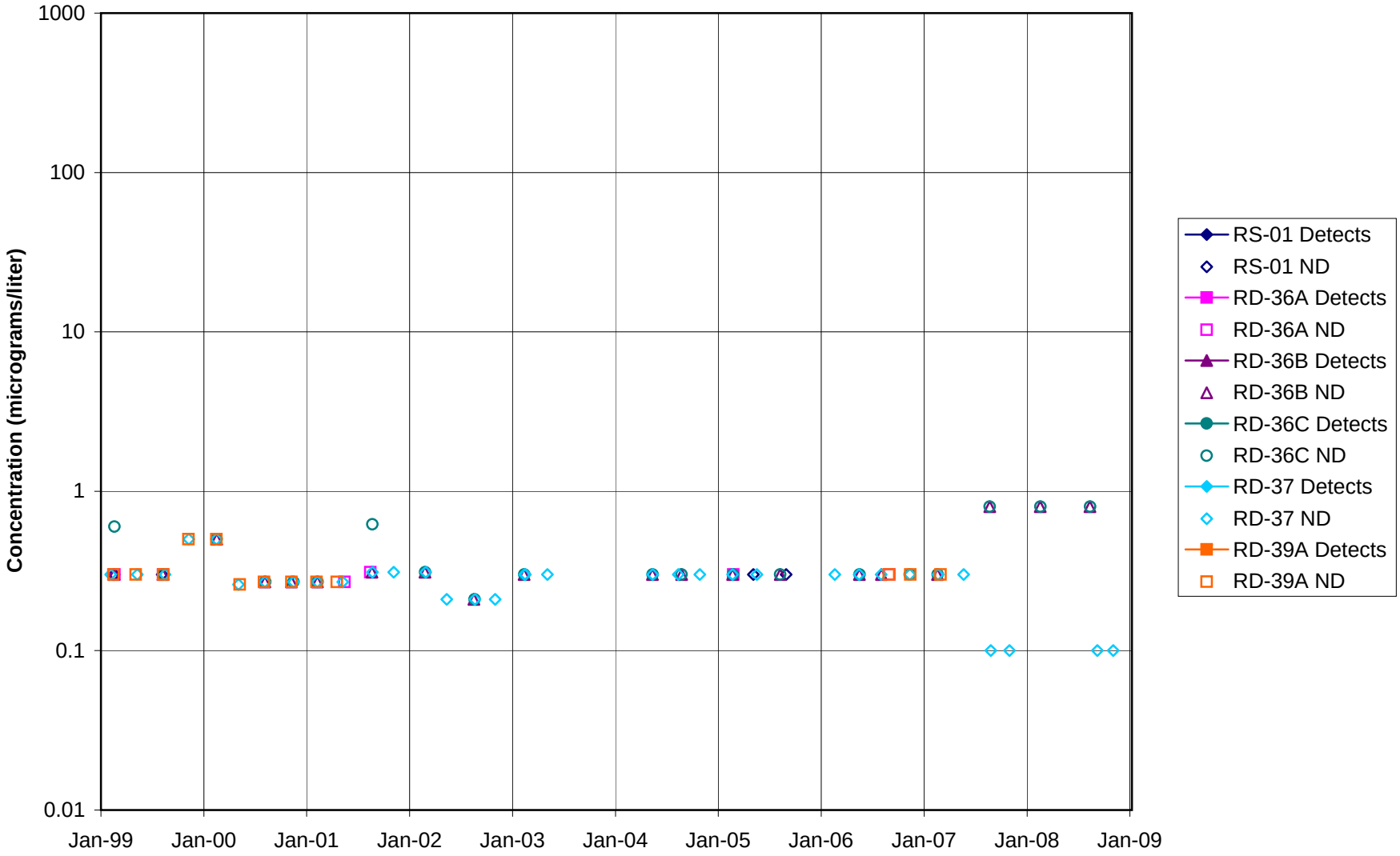


FIGURE F-21. 1,1,2-TCA in MAIN GATE AREA WELLS - 2

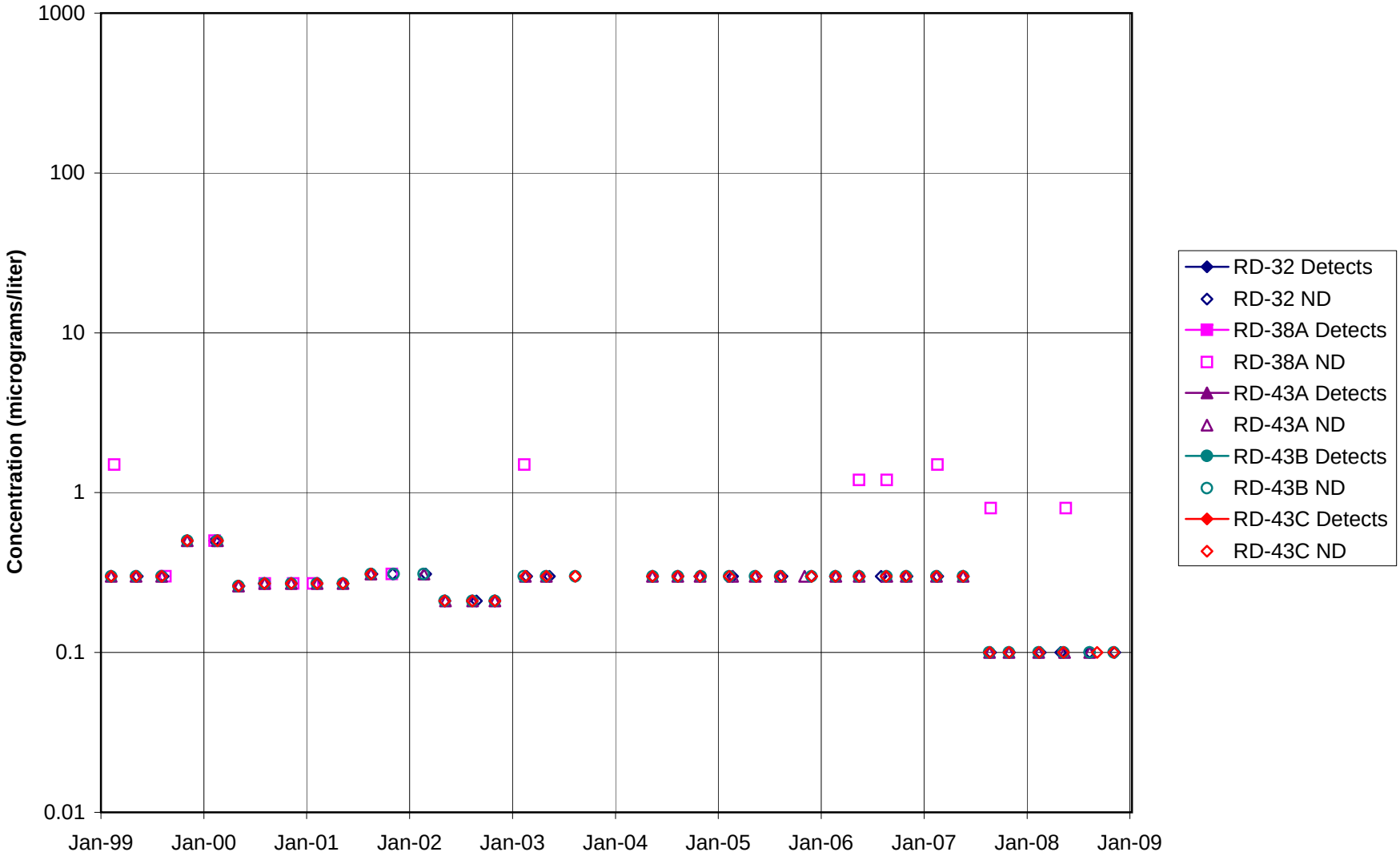


FIGURE F-22. 1,1,2-TCA in APTF, CANYON, & HAPPY VALLEY AREA WELLS - 1

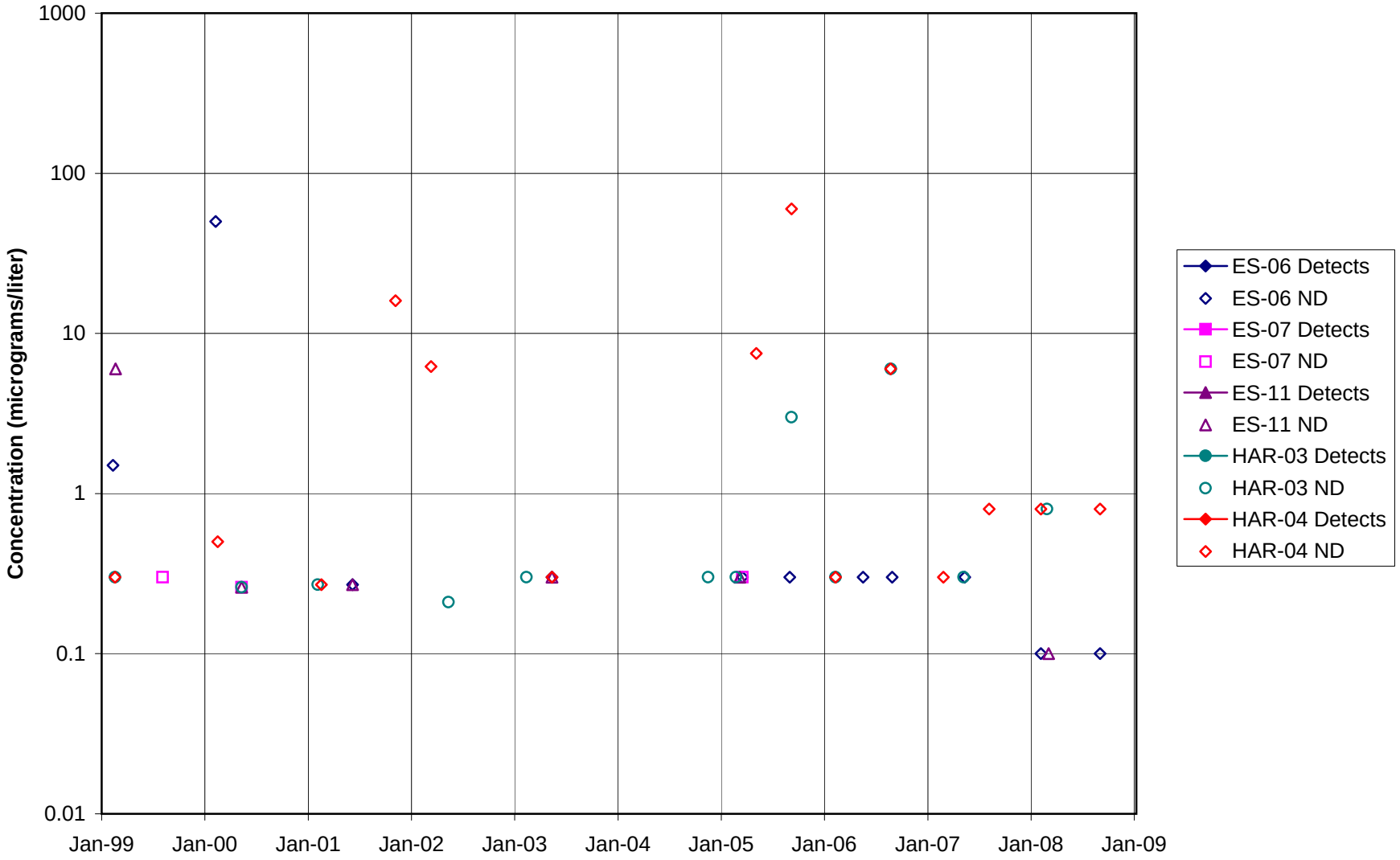


FIGURE F-23. 1,1,2-TCA in APTF, CANYON, & HAPPY VALLEY AREA WELLS - 2

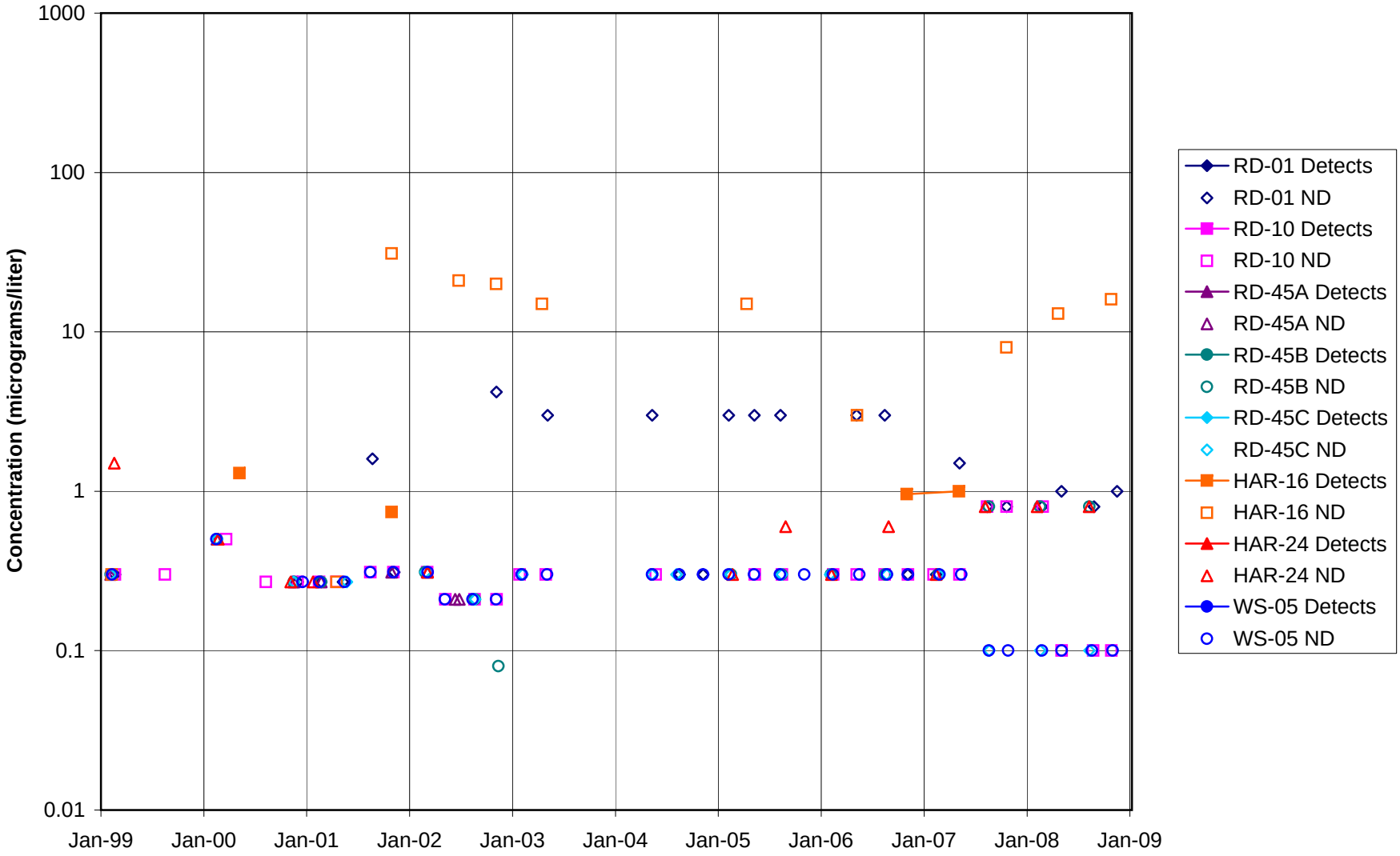


FIGURE F-24. 1,1,2-TCA in CTL-III / PERIMETER POND AREA WELLS

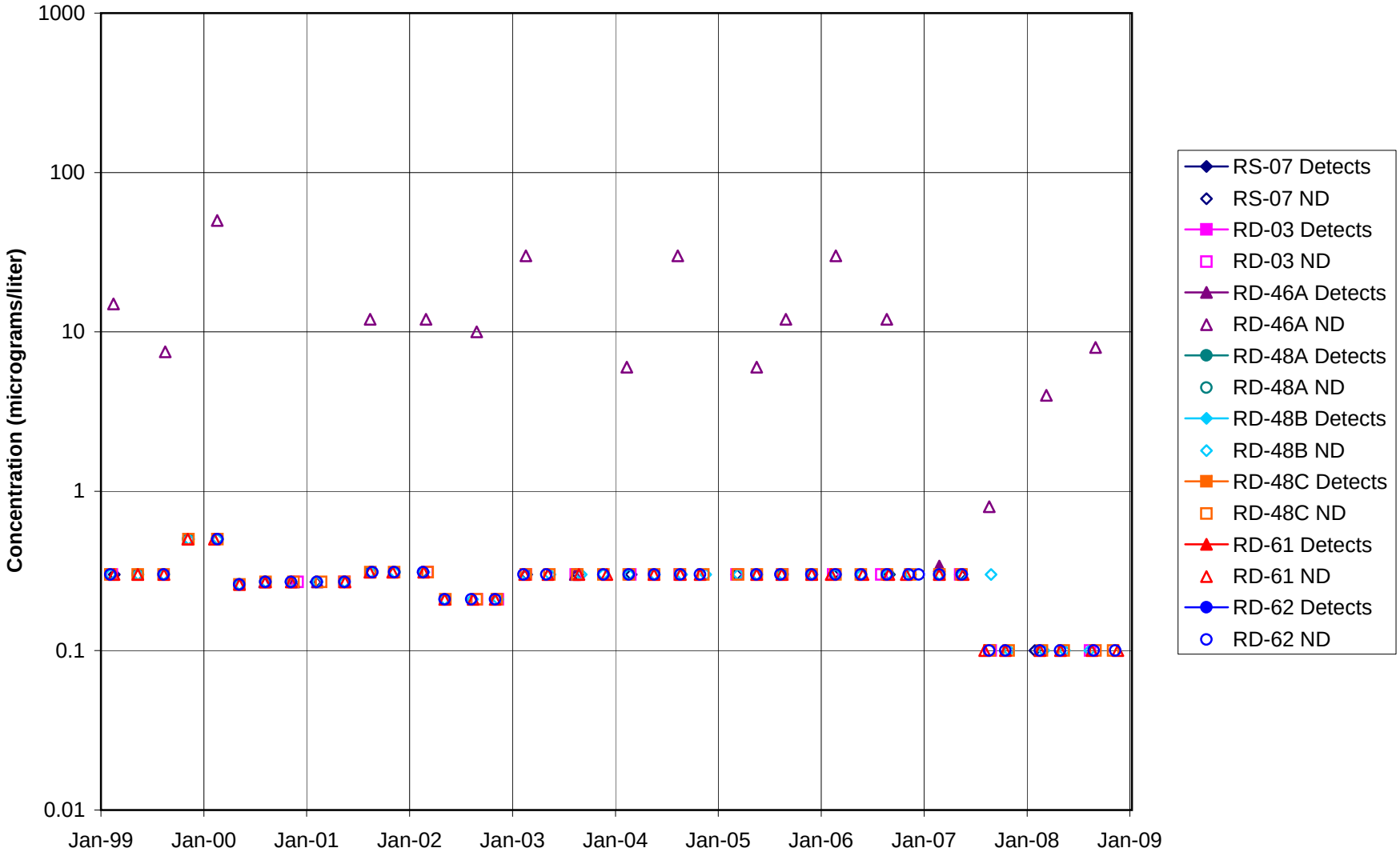


FIGURE F-25. 1,1,2-TCA in BOWL AREA WELLS

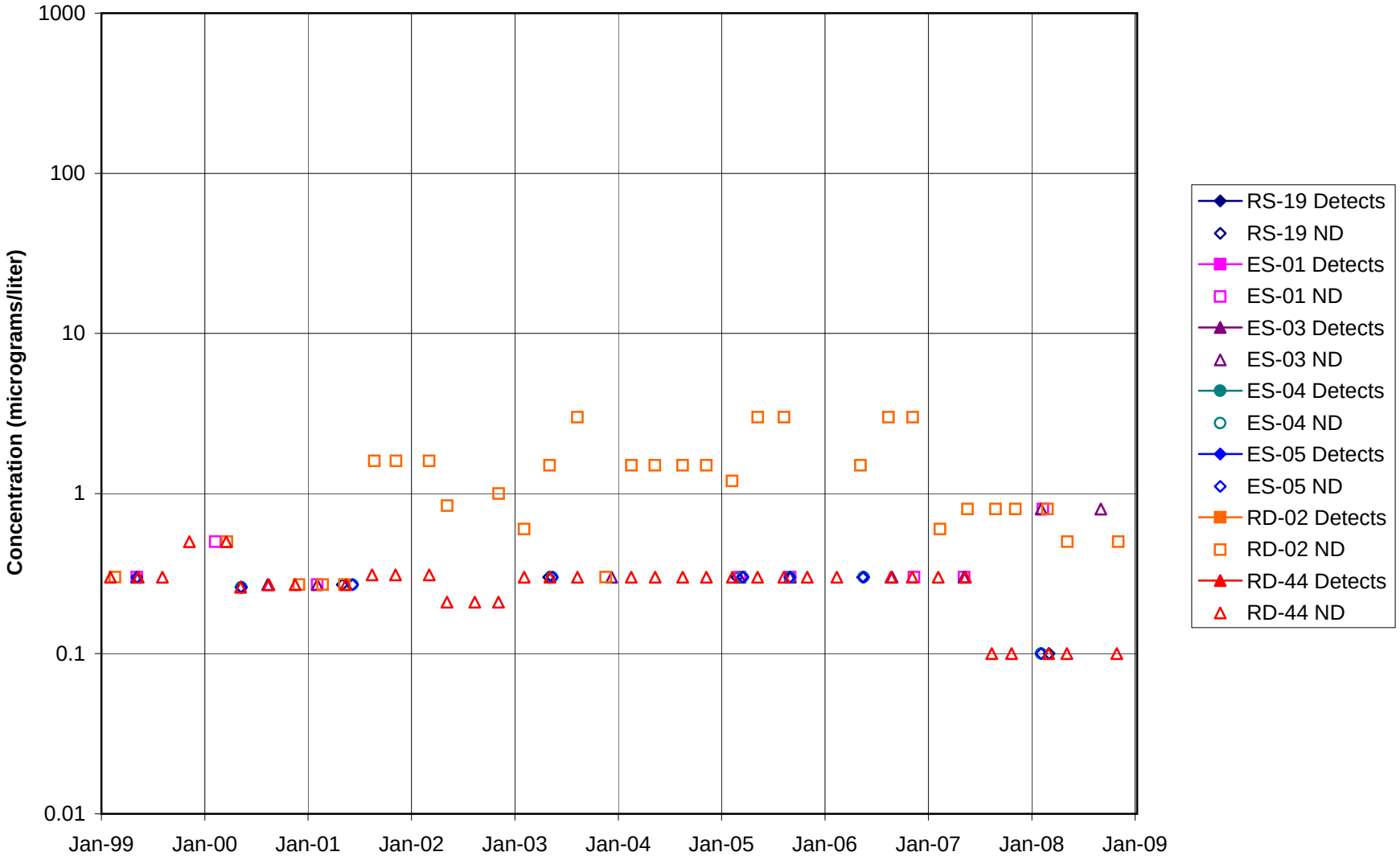


FIGURE F-26. 1,1,2-TCA in ECL AREA WELLS

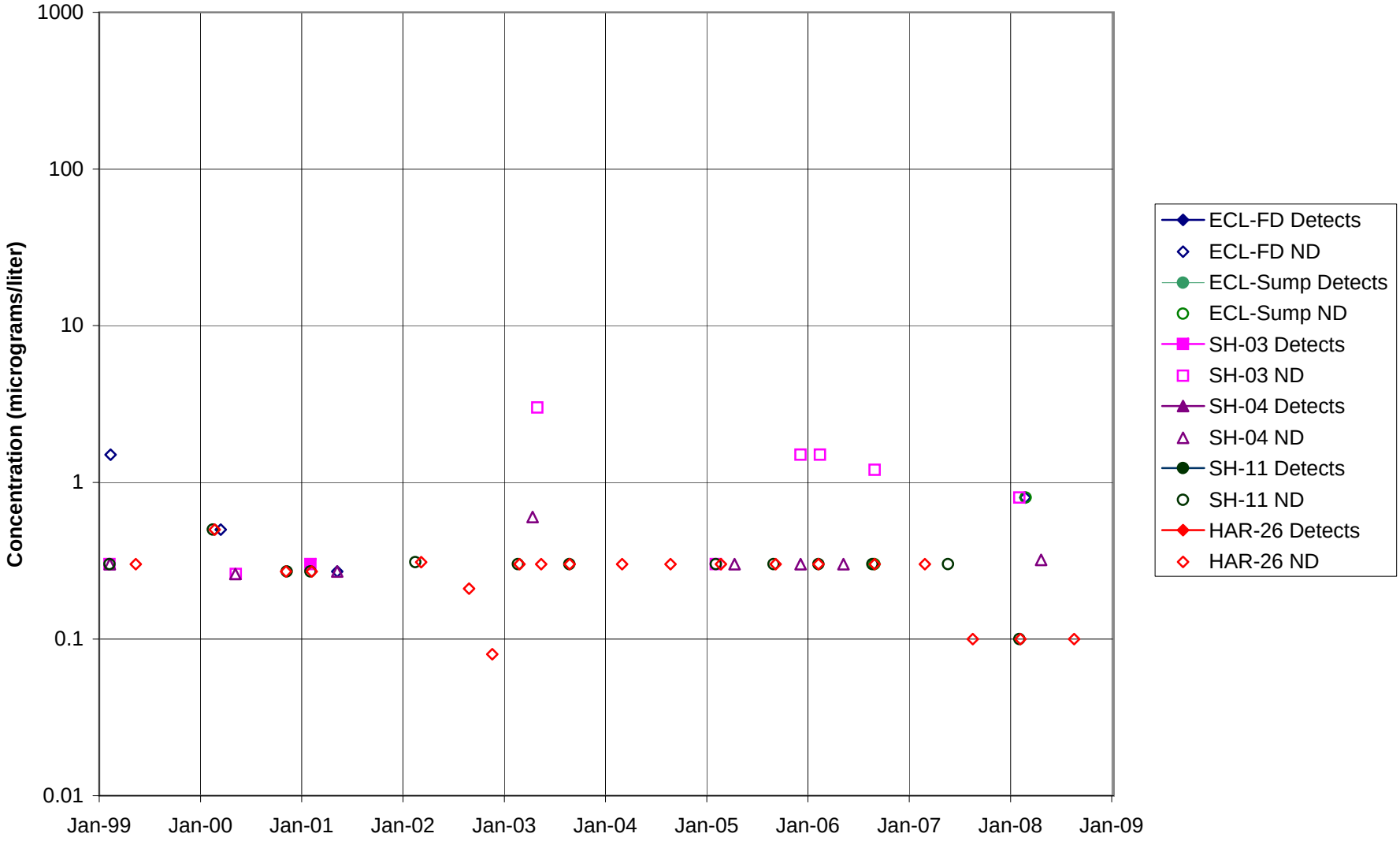


FIGURE F-27. 1,1,2-TCA in FORMER LOX PLANT AREA WELLS

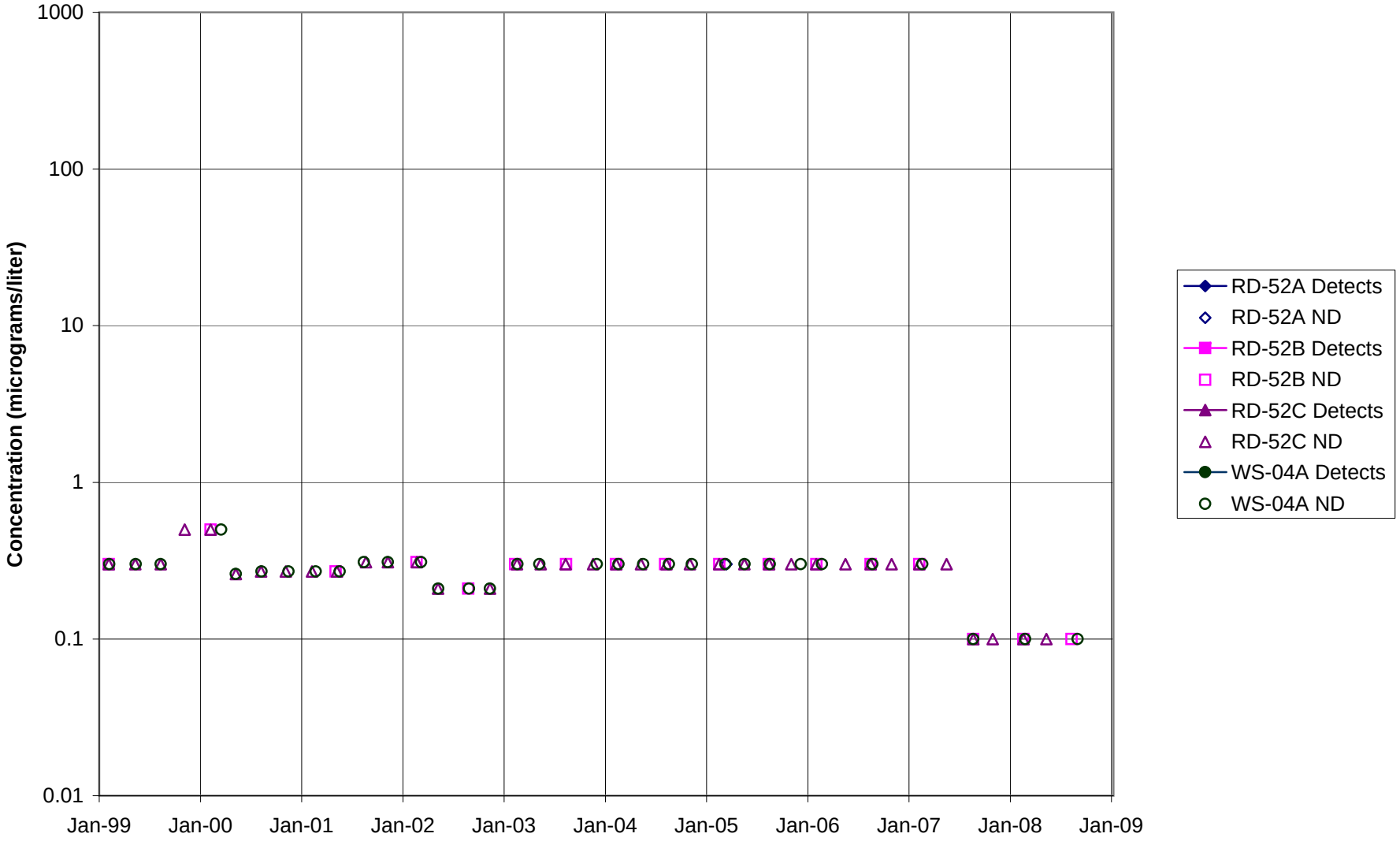


FIGURE F-28. 1,1,2-TCA in RD-09 AREA WELLS

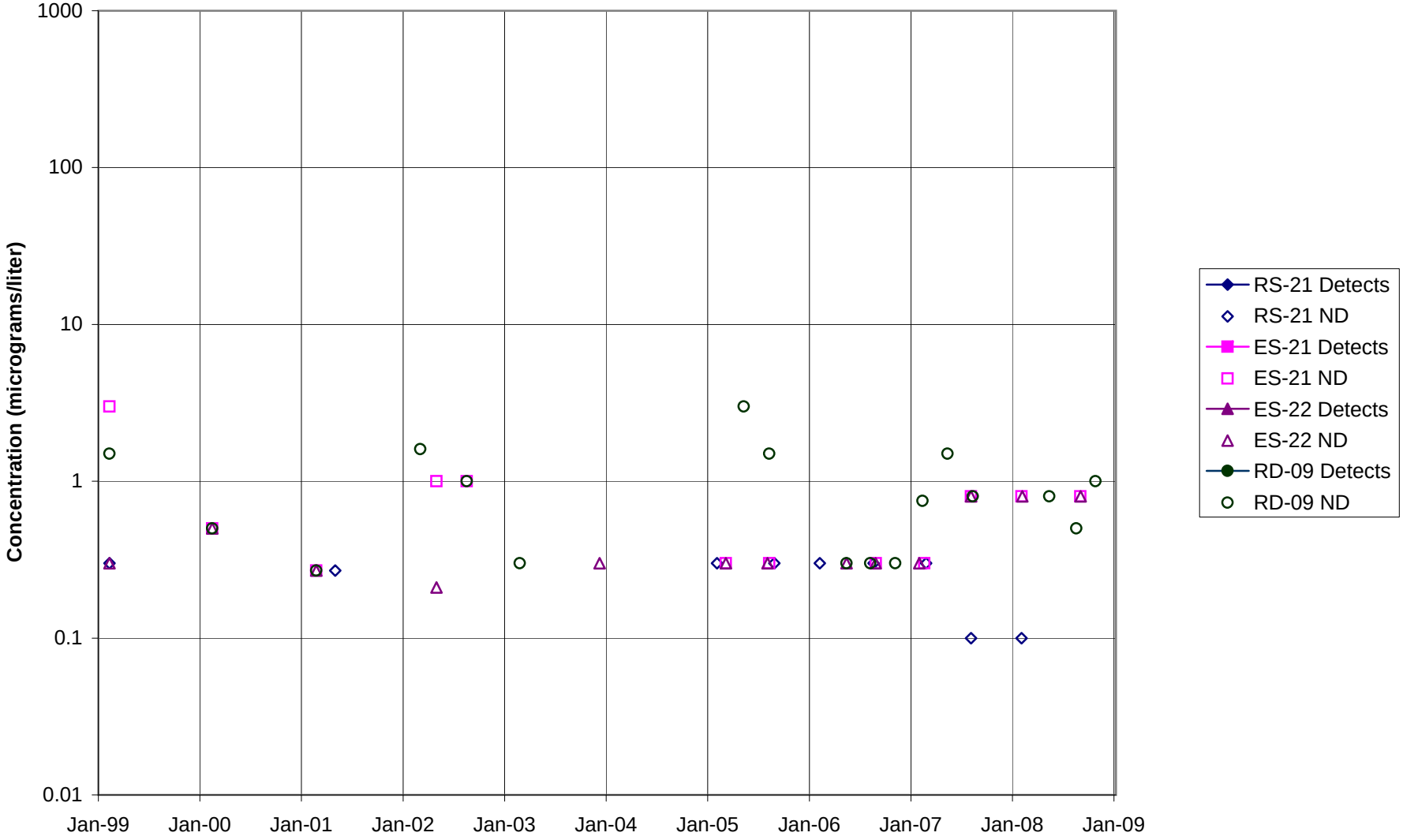


FIGURE F-29. 1,1,2-TCA in HELIPORT, B/204 AREA WELLS

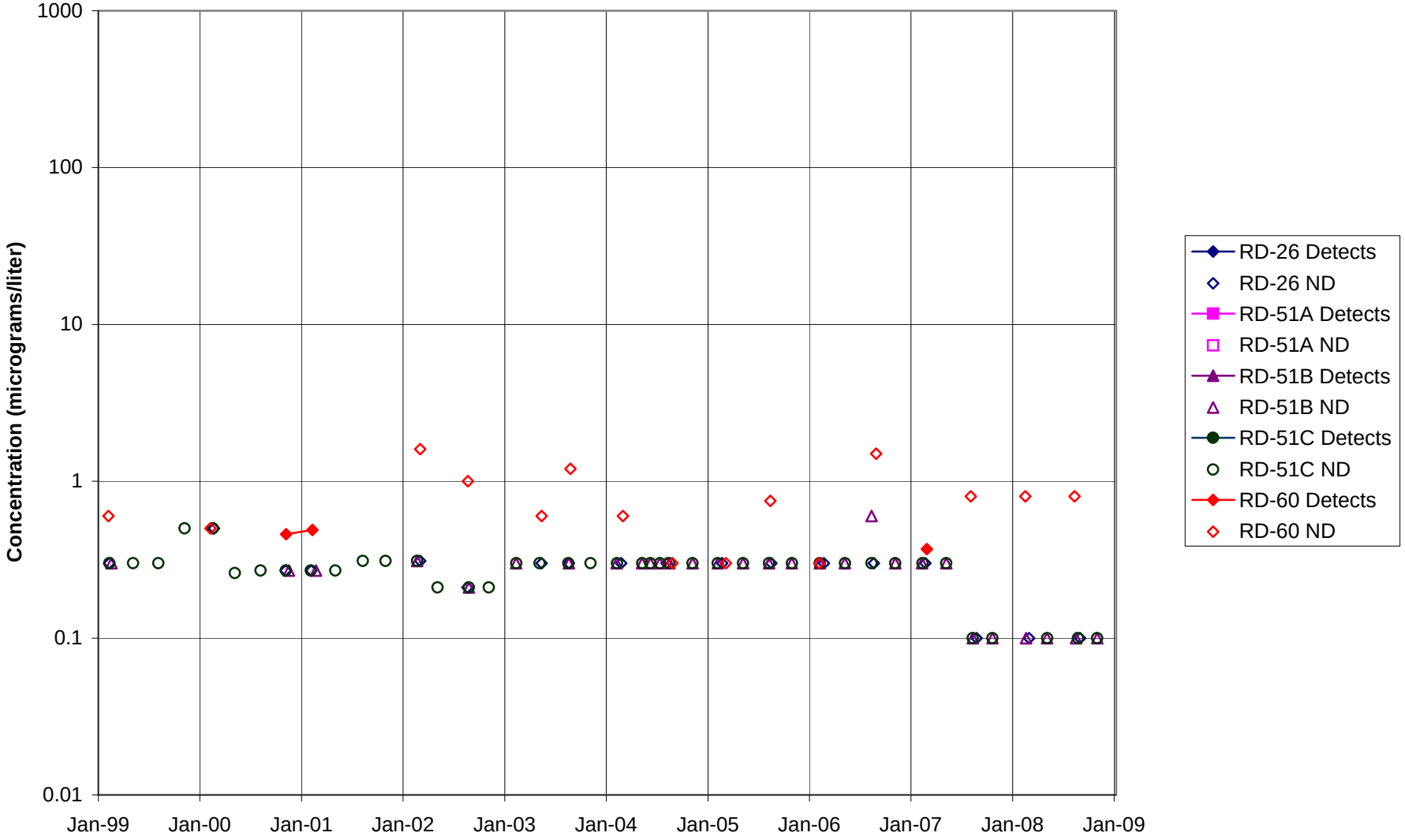


FIGURE F-30. 1,1,2-TCA in ALFA / BRAVO AREA WELLS

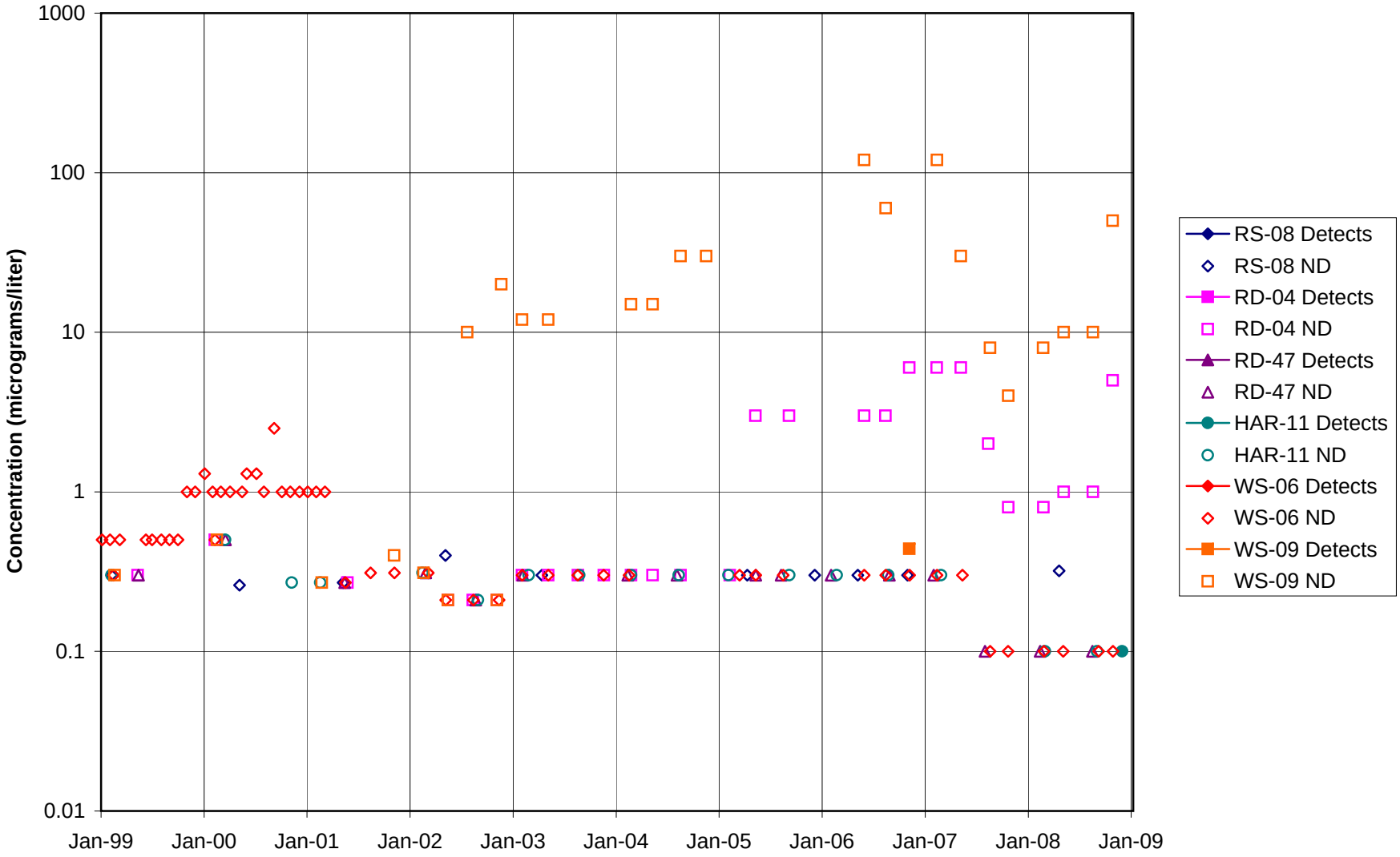


FIGURE F-31. 1,1,2-TCA in SPA AREA WELLS

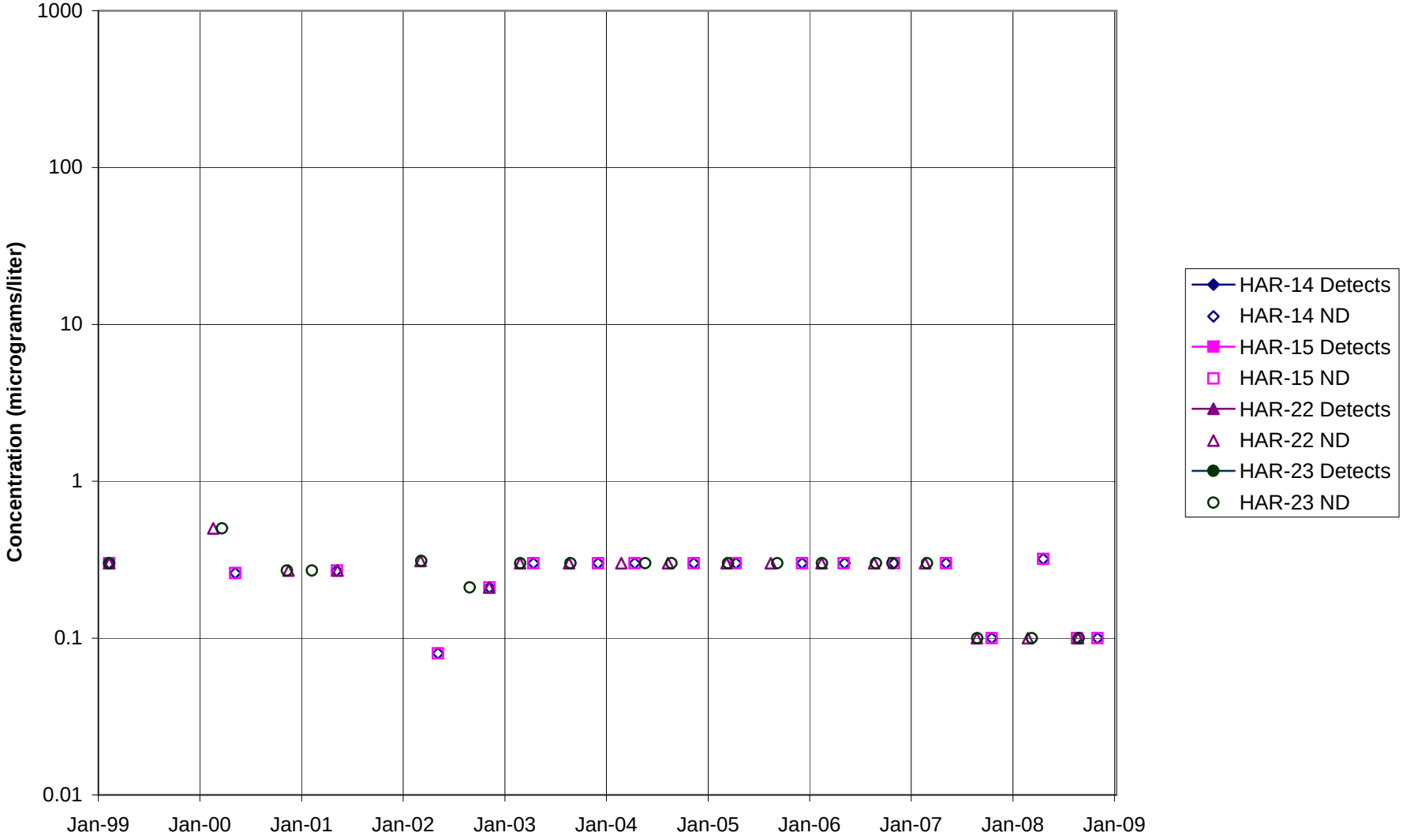


FIGURE F-32. 1,1,2-TCA in COCA / PLF AREA WELLS

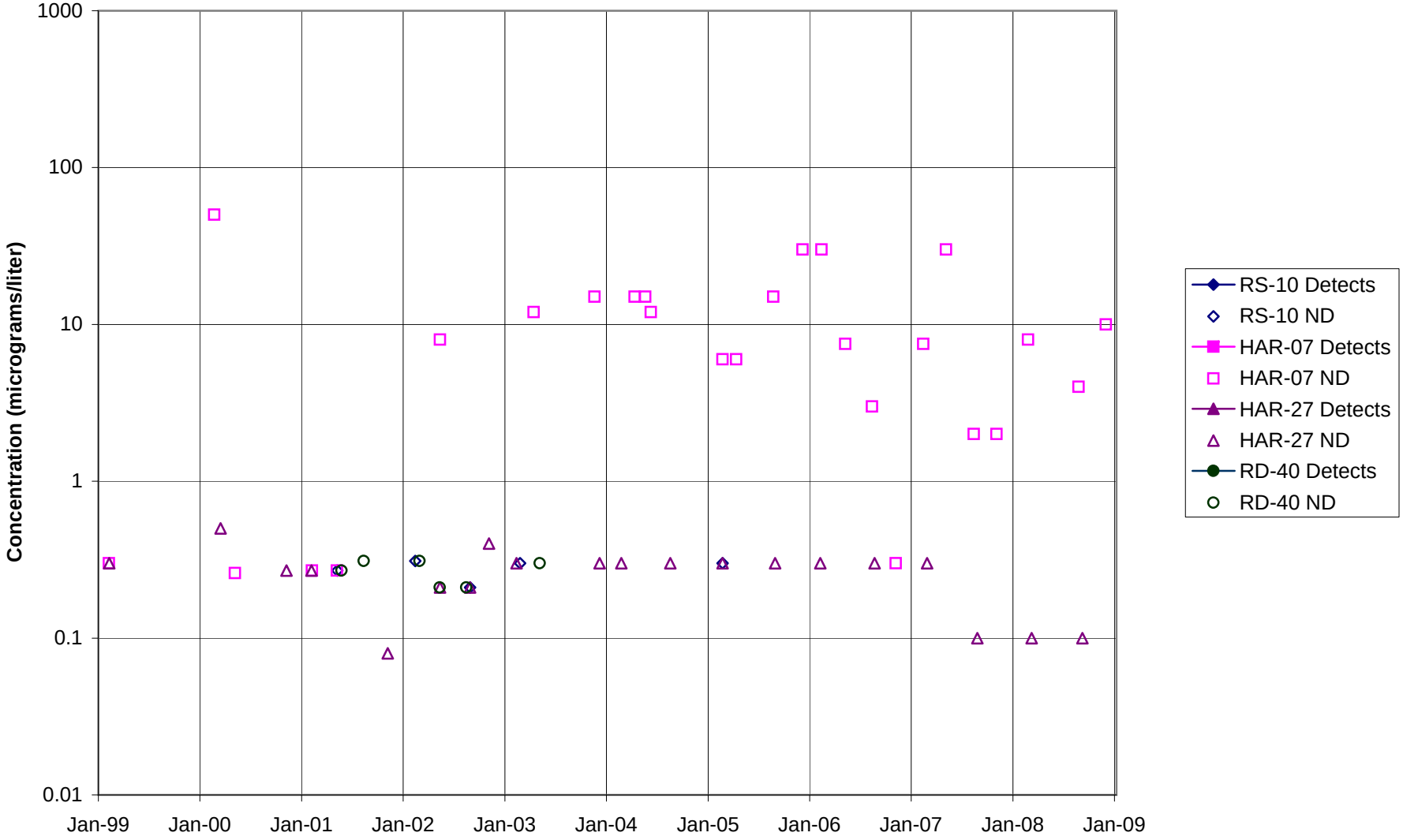


FIGURE F-33. 1,1,2-TCA in DELTA / BUFFER ZONE AREA WELLS

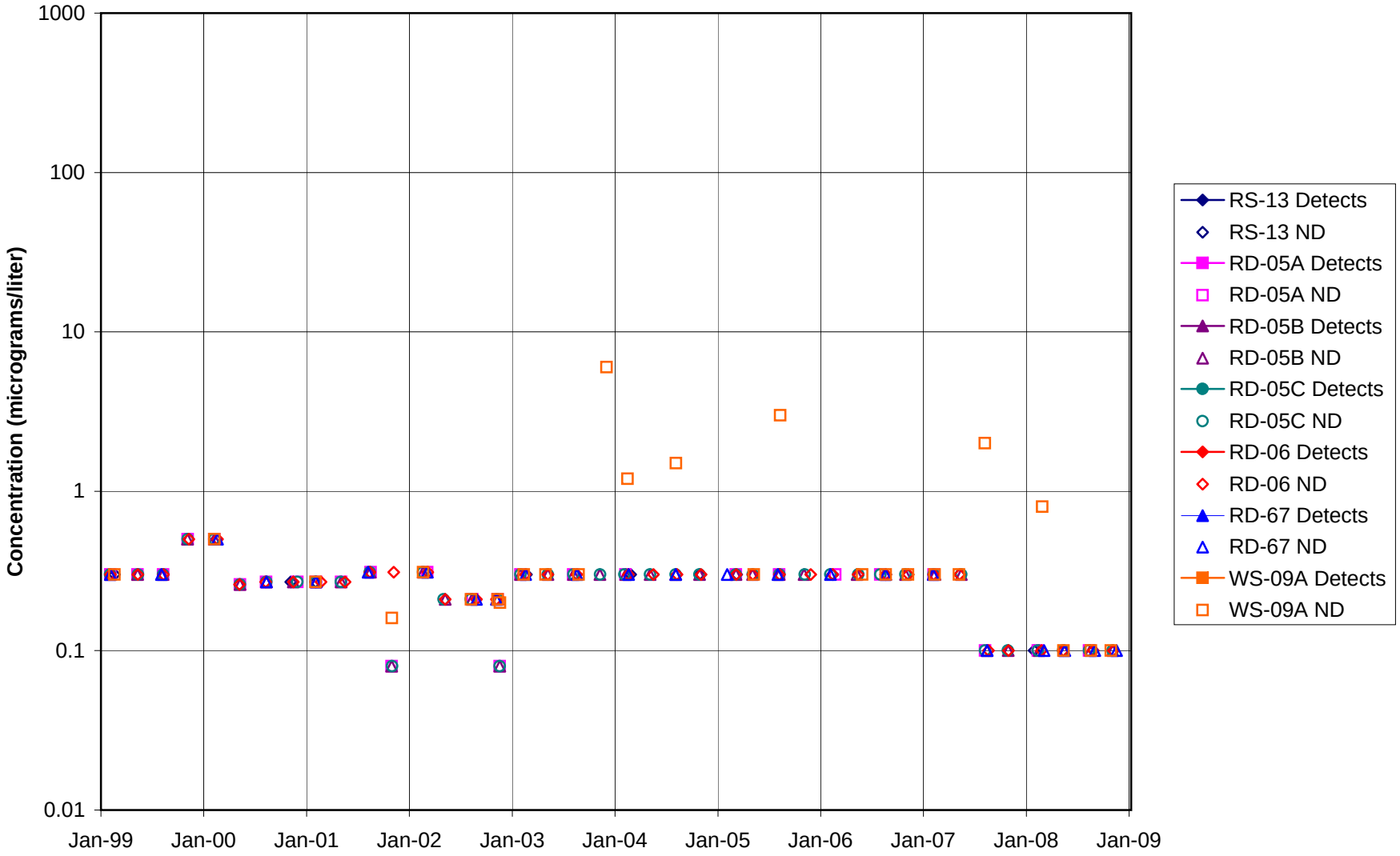


FIGURE F-34. 1,1,2-TCA in AREA IV WELLS

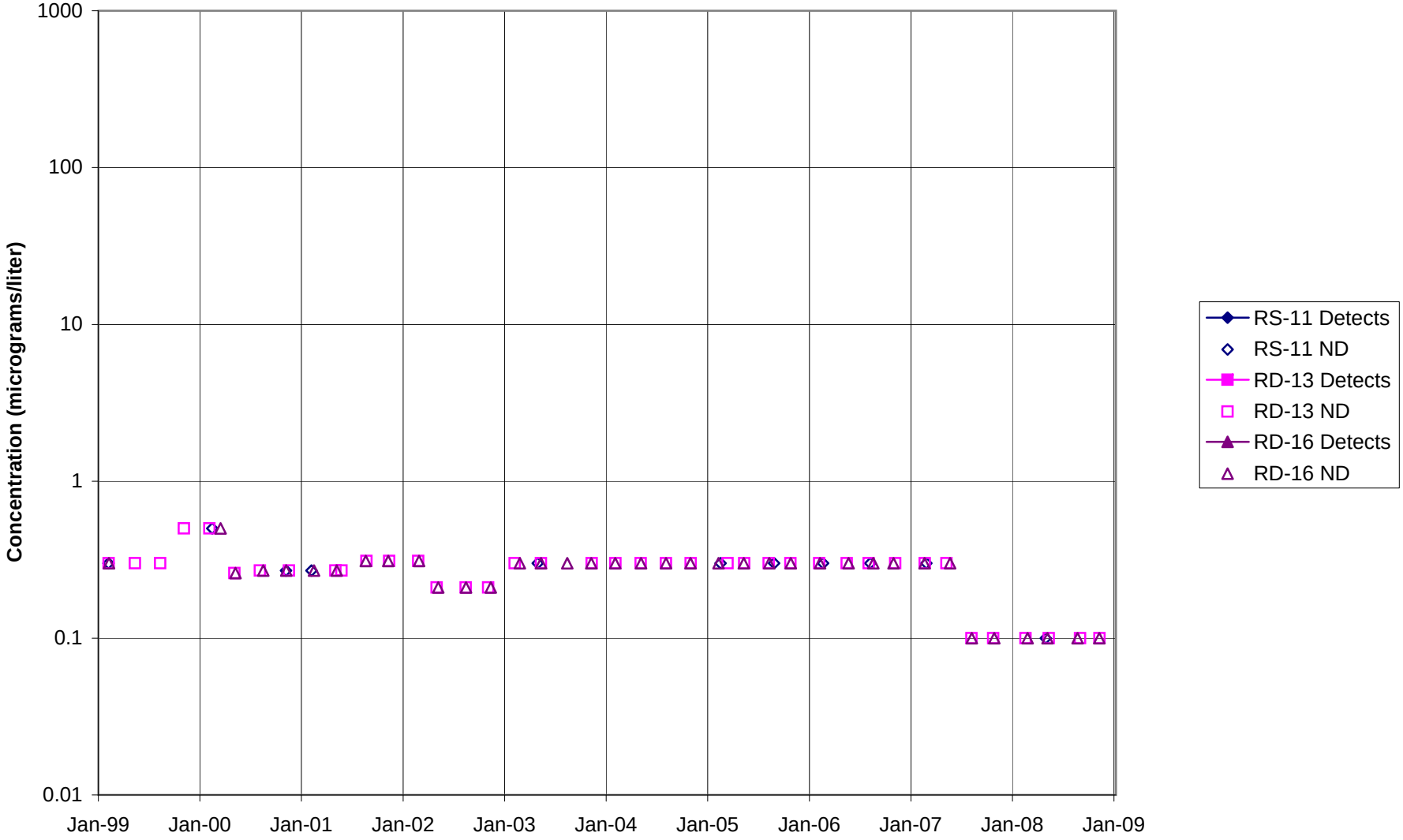


FIGURE F-35. 1,1-DCE in STL-IV AREA SHALLOW WELLS

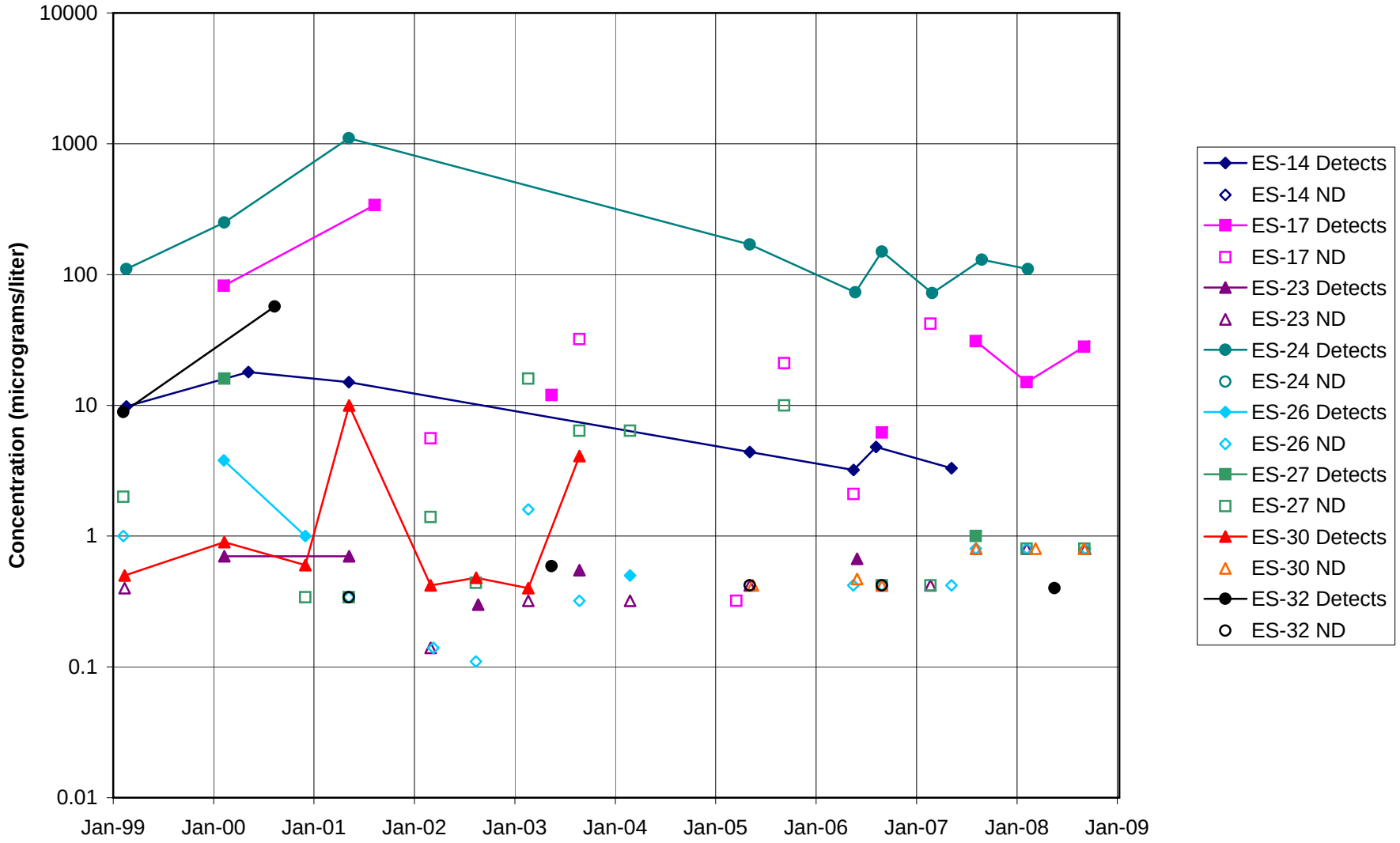


FIGURE F-36. 1,1-DCE in STL-IV AREA CHATSWORTH FORMATION WELLS

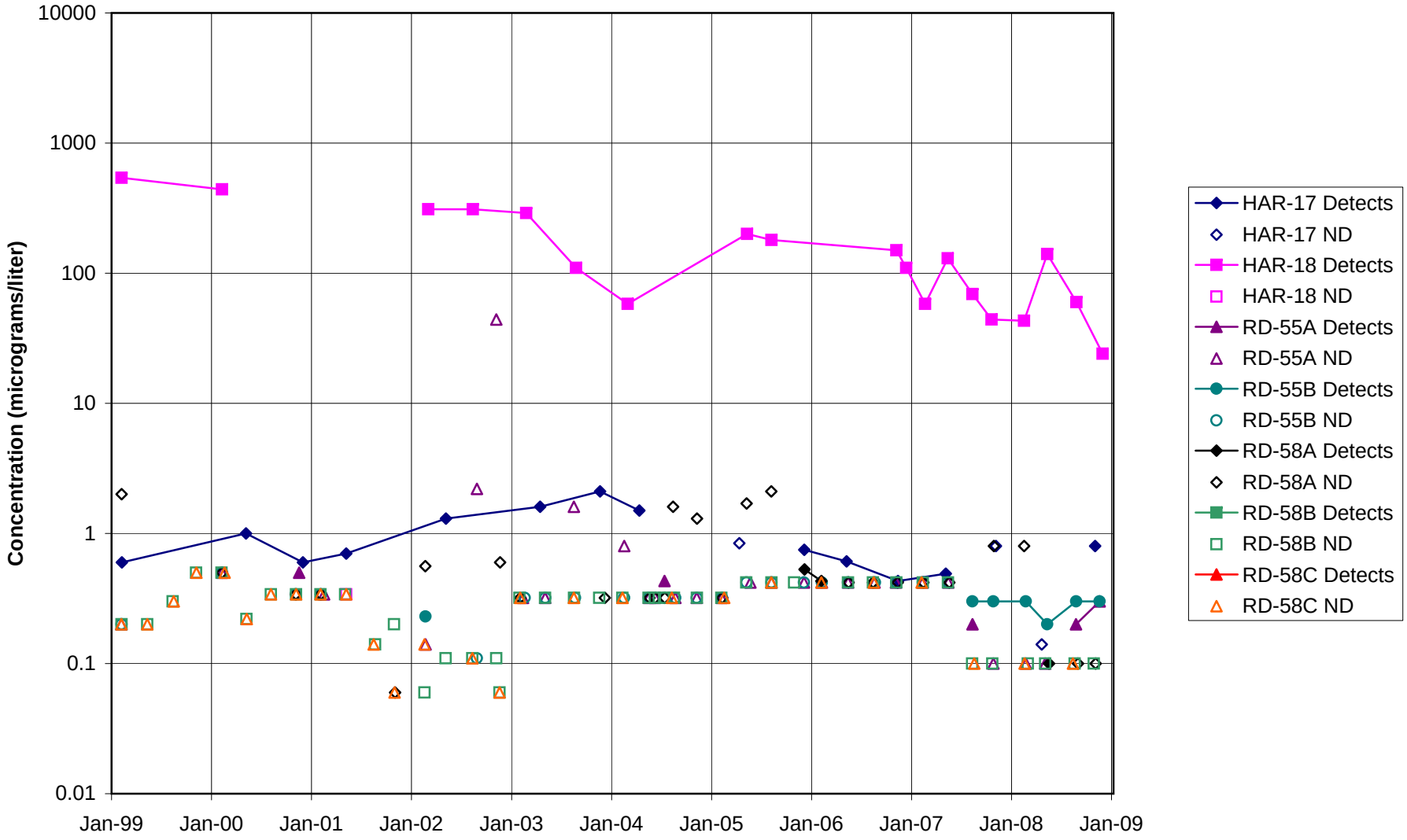


FIGURE F-37. 1,1-DCE in MAIN GATE AREA WELLS - 1

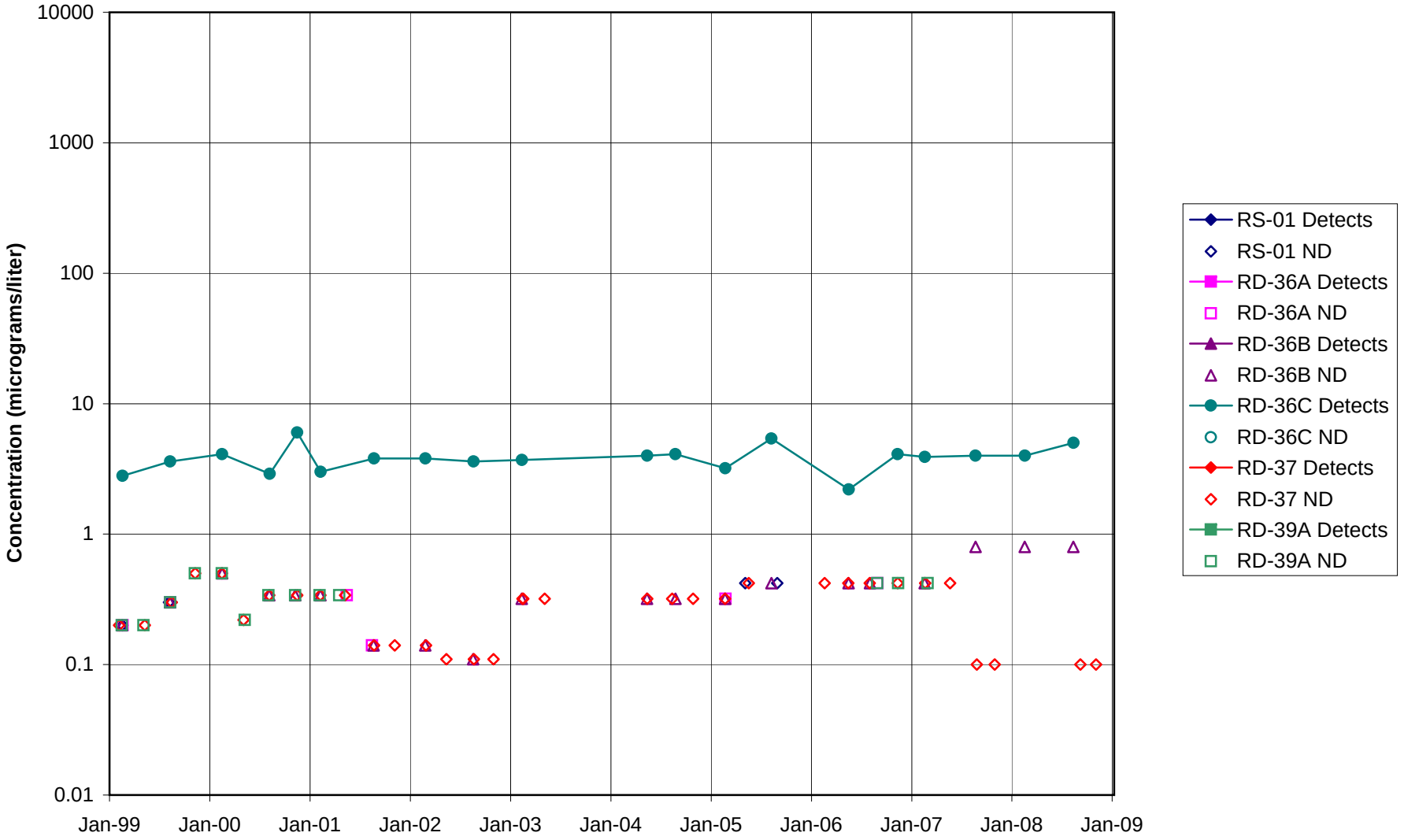


FIGURE F-38. 1,1-DCE in MAIN GATE AREA WELLS - 2

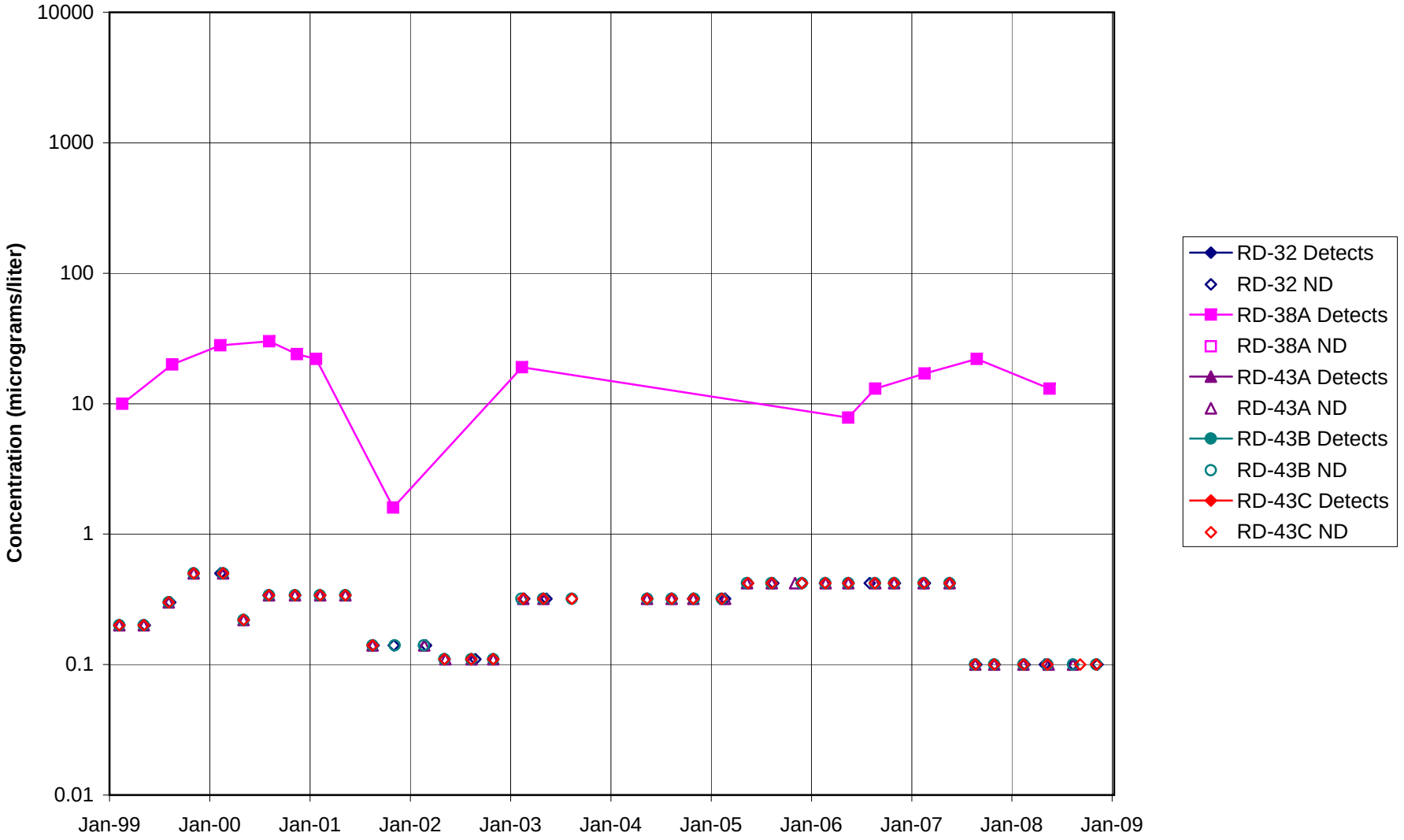


FIGURE F-39. 1,1-DCE in APTF, CANYON, & HAPPY VALLEY AREA WELLS - 1

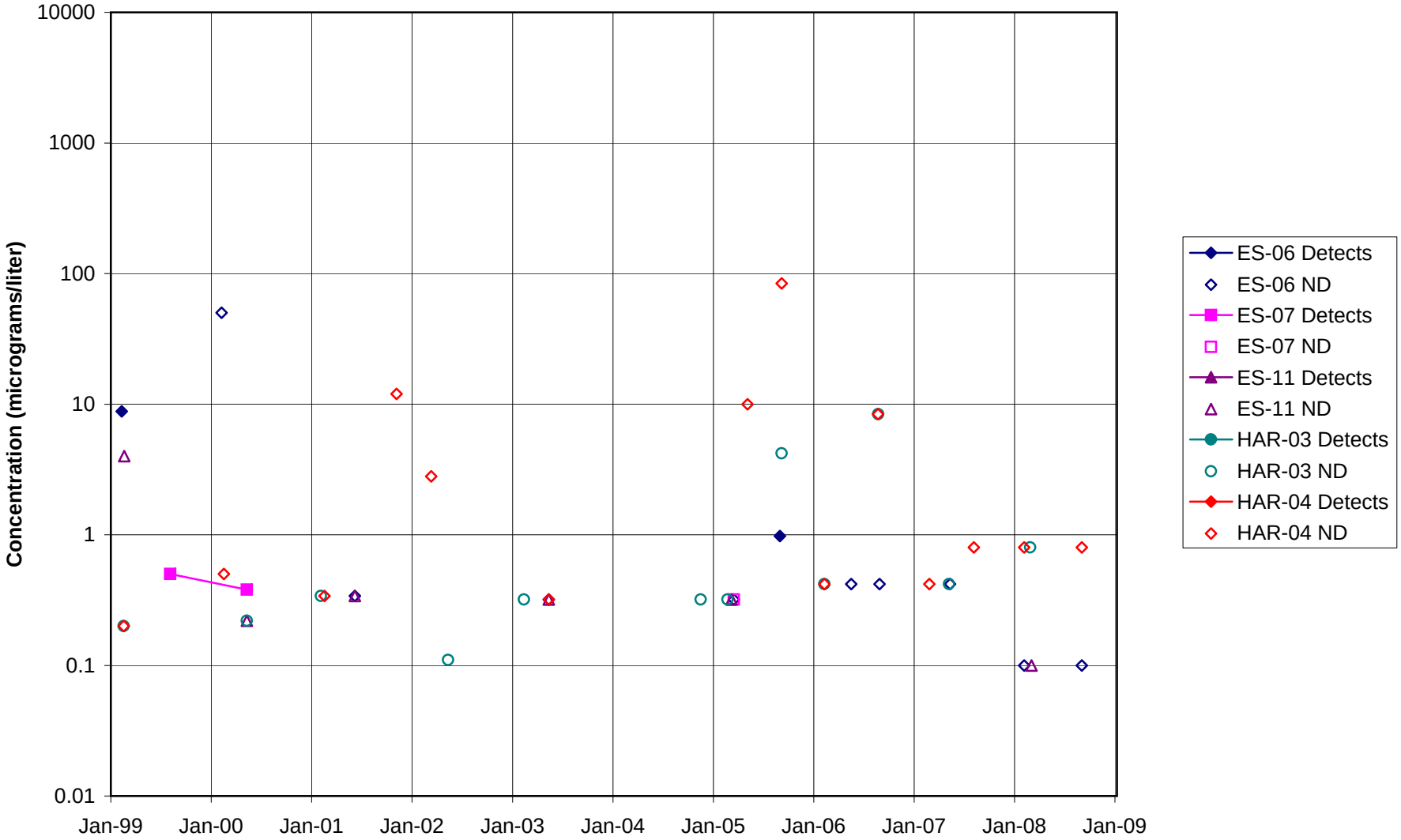


FIGURE F-40. 1,1-DCE in APTF, CANYON, & HAPPY VALLEY AREA WELLS - 2

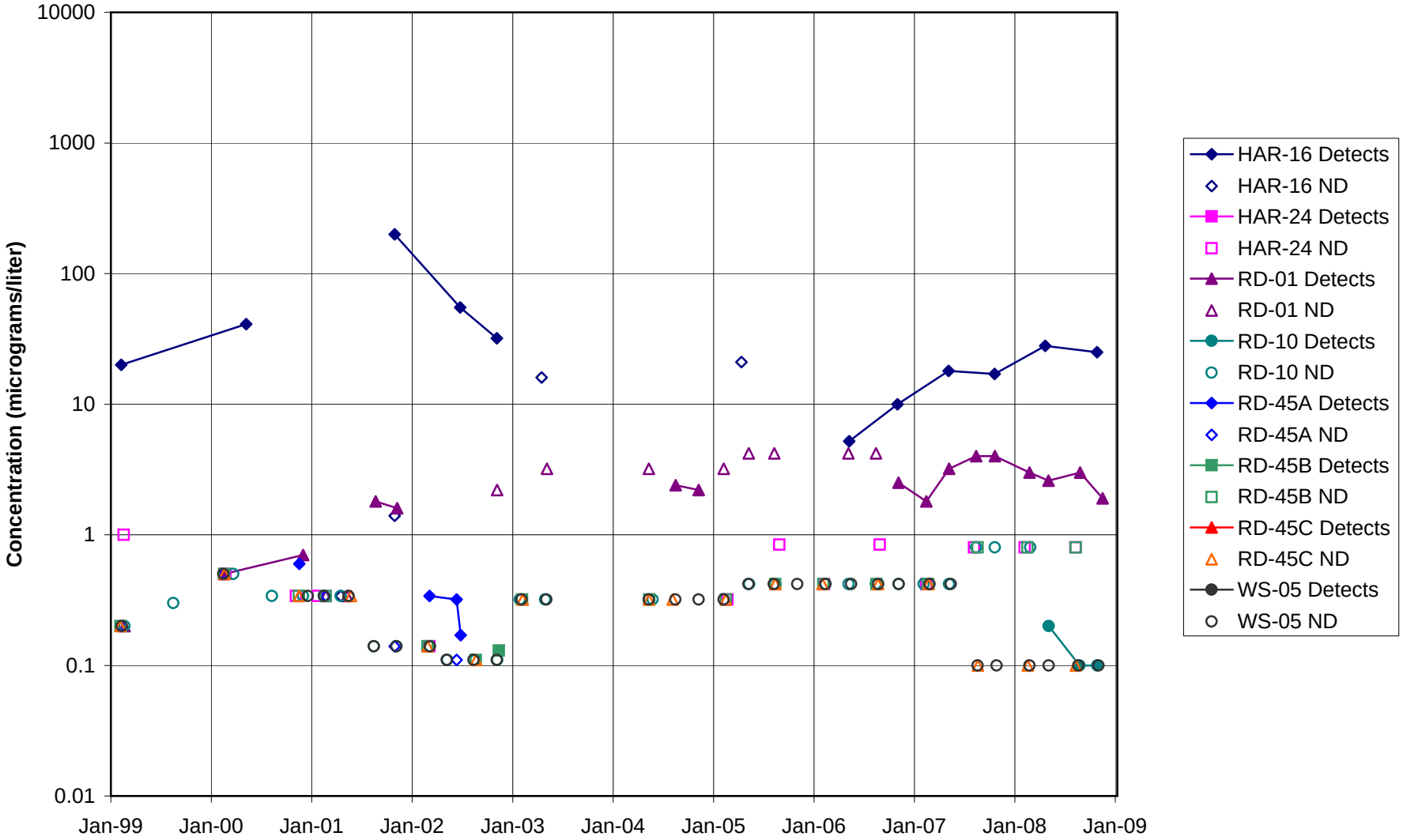


FIGURE F-41. 1,1-DCE in CTL-III / PERIMETER POND AREA WELLS

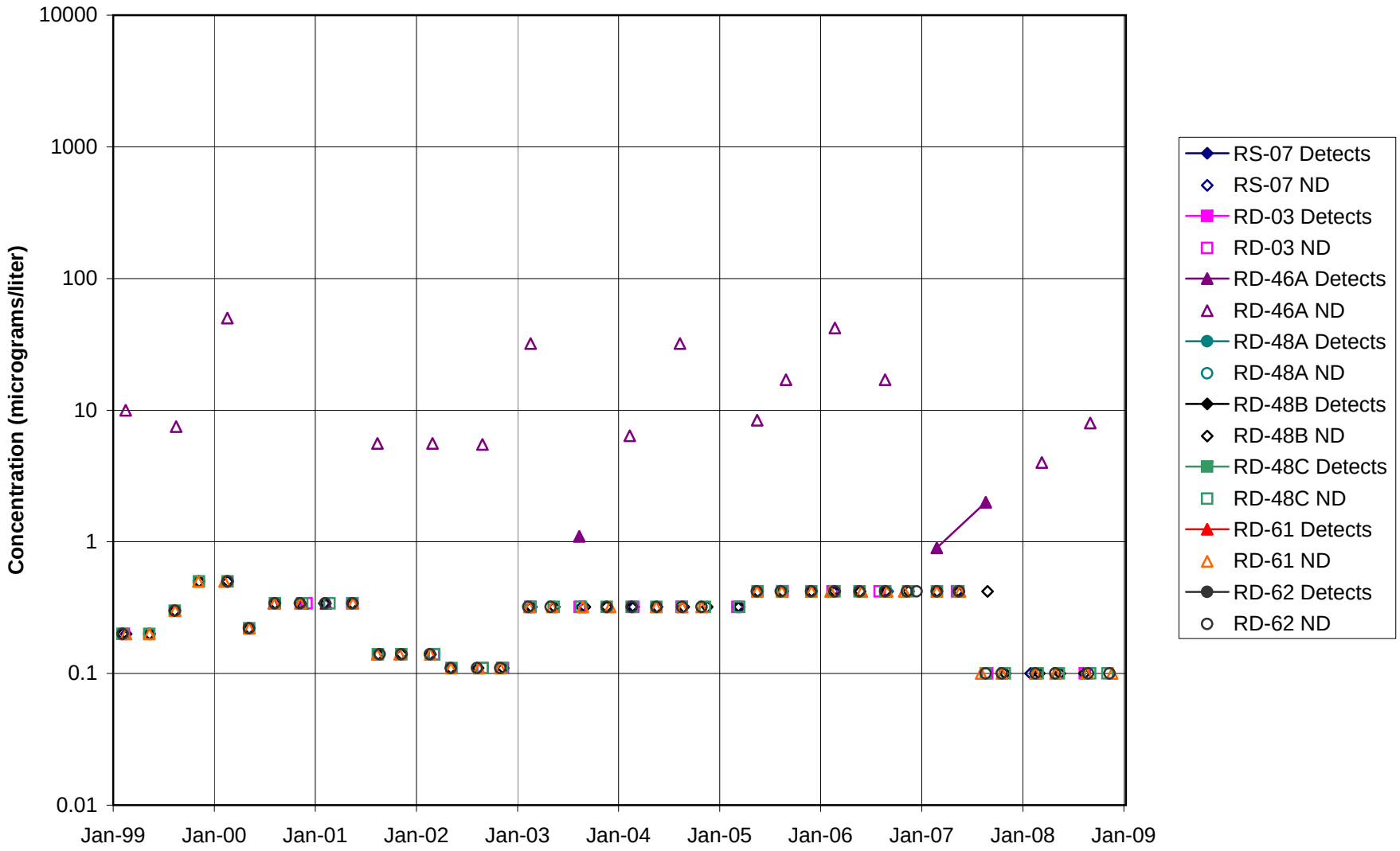


FIGURE F-42. 1,1-DCE in BOWL AREA WELLS

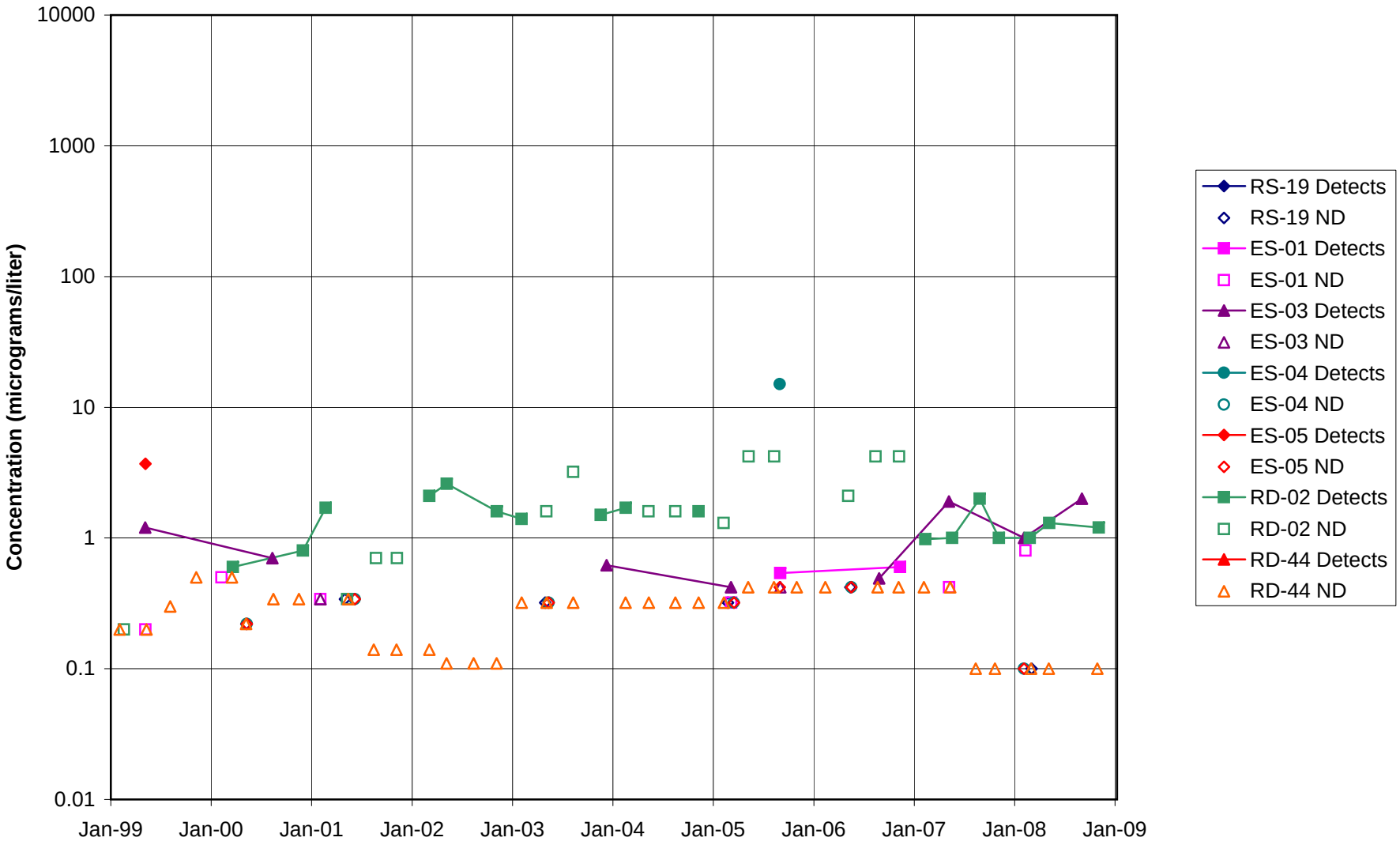


FIGURE F-43. 1,1-DCE in ECL AREA WELLS

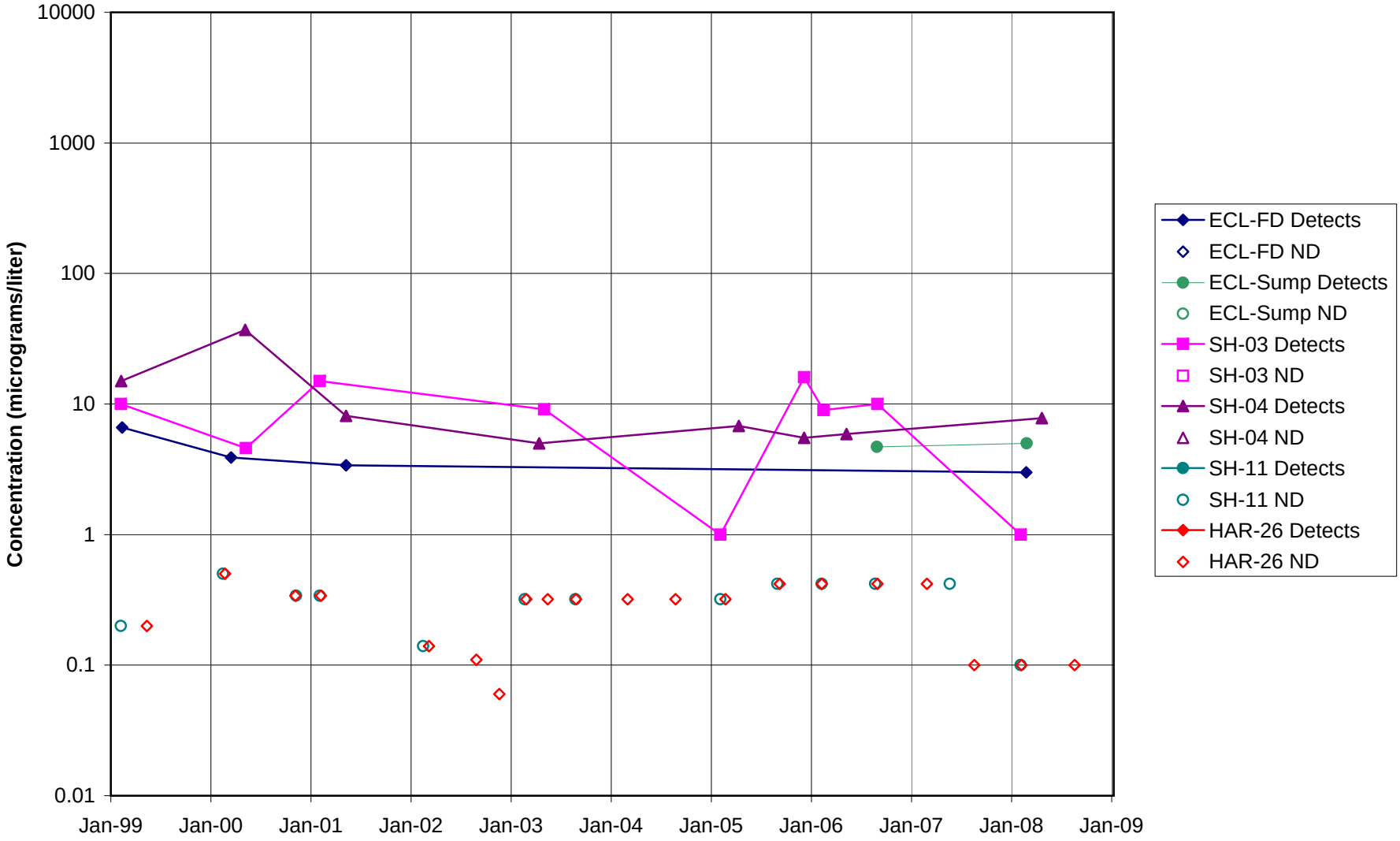


FIGURE F-44. 1,1-DCE in FORMER LOX PLANT AREA WELLS

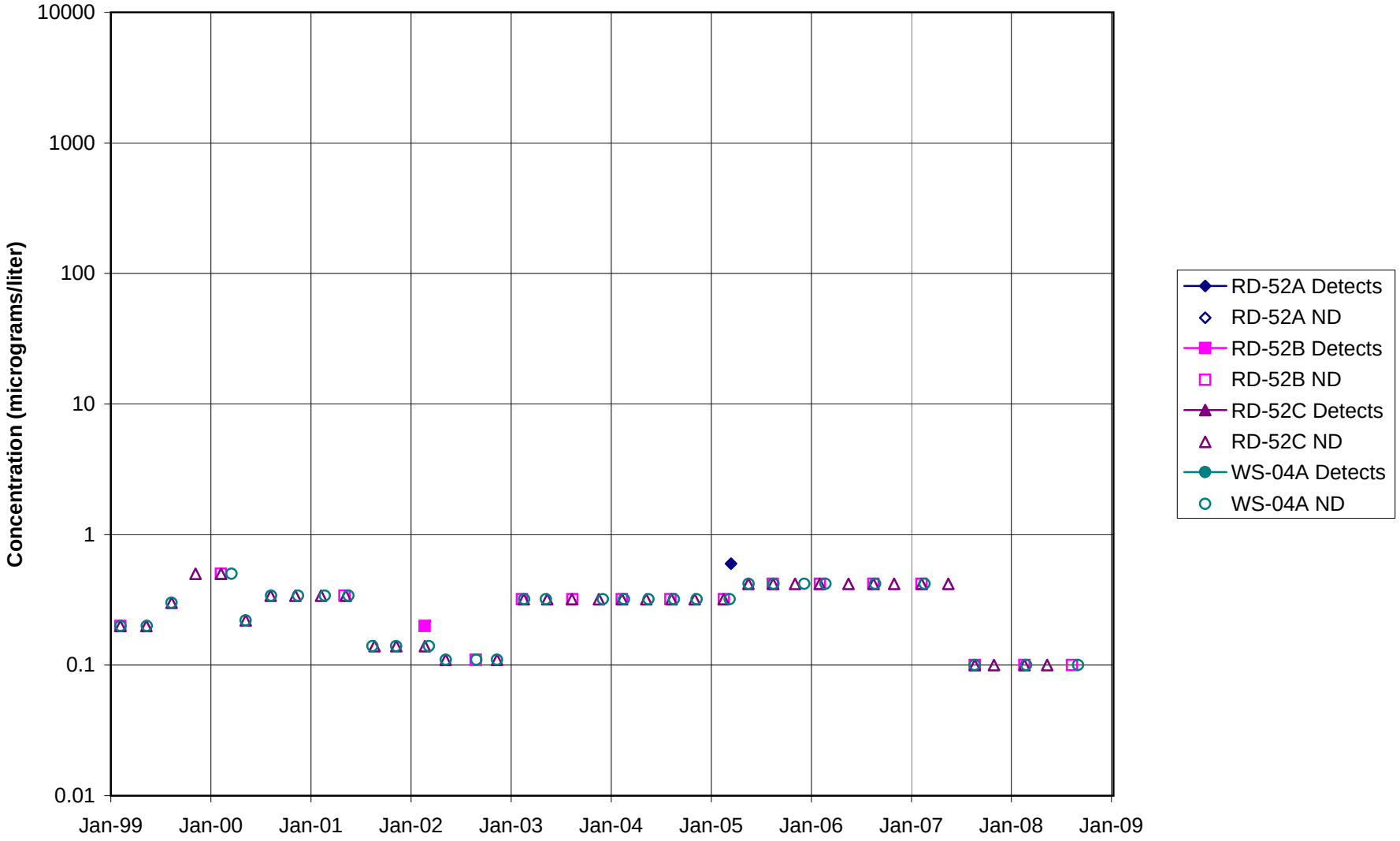


FIGURE F-45. 1,1-DCE in RD-09 AREA WELLS

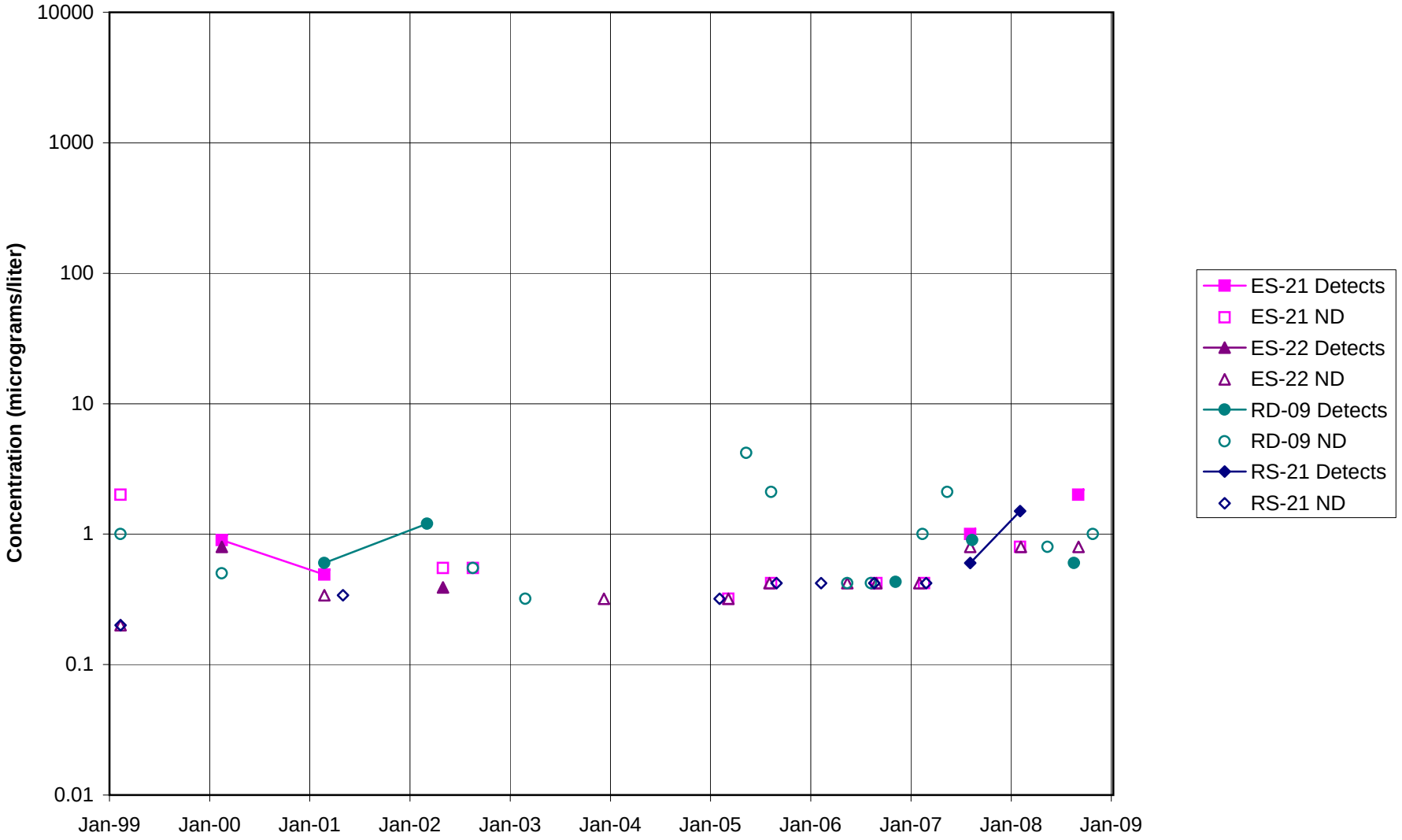


FIGURE F-46. 1,1-DCE in HELIPORT, B/204 AREA WELLS

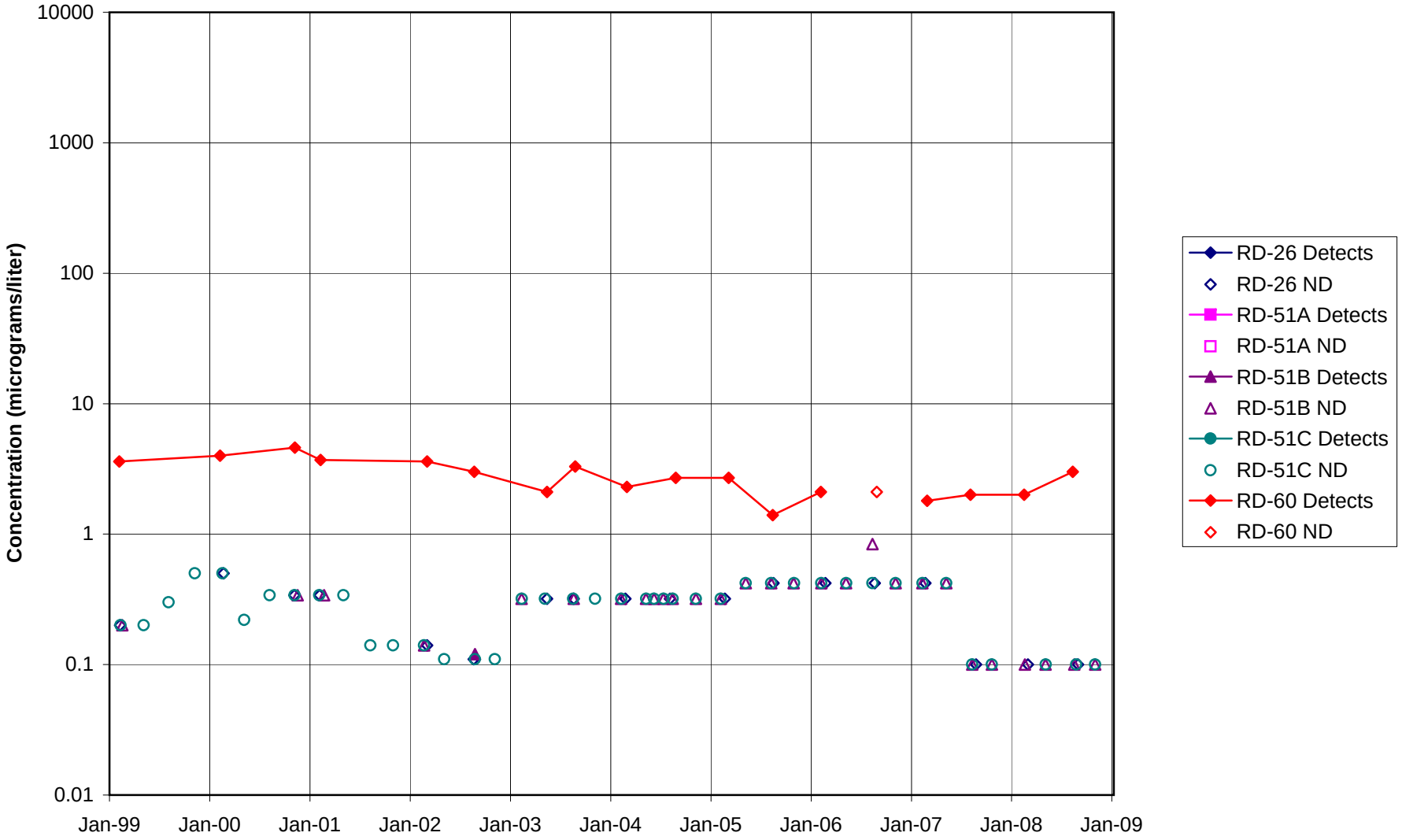


FIGURE F-47. 1,1-DCE in ALFA / BRAVO AREA WELLS

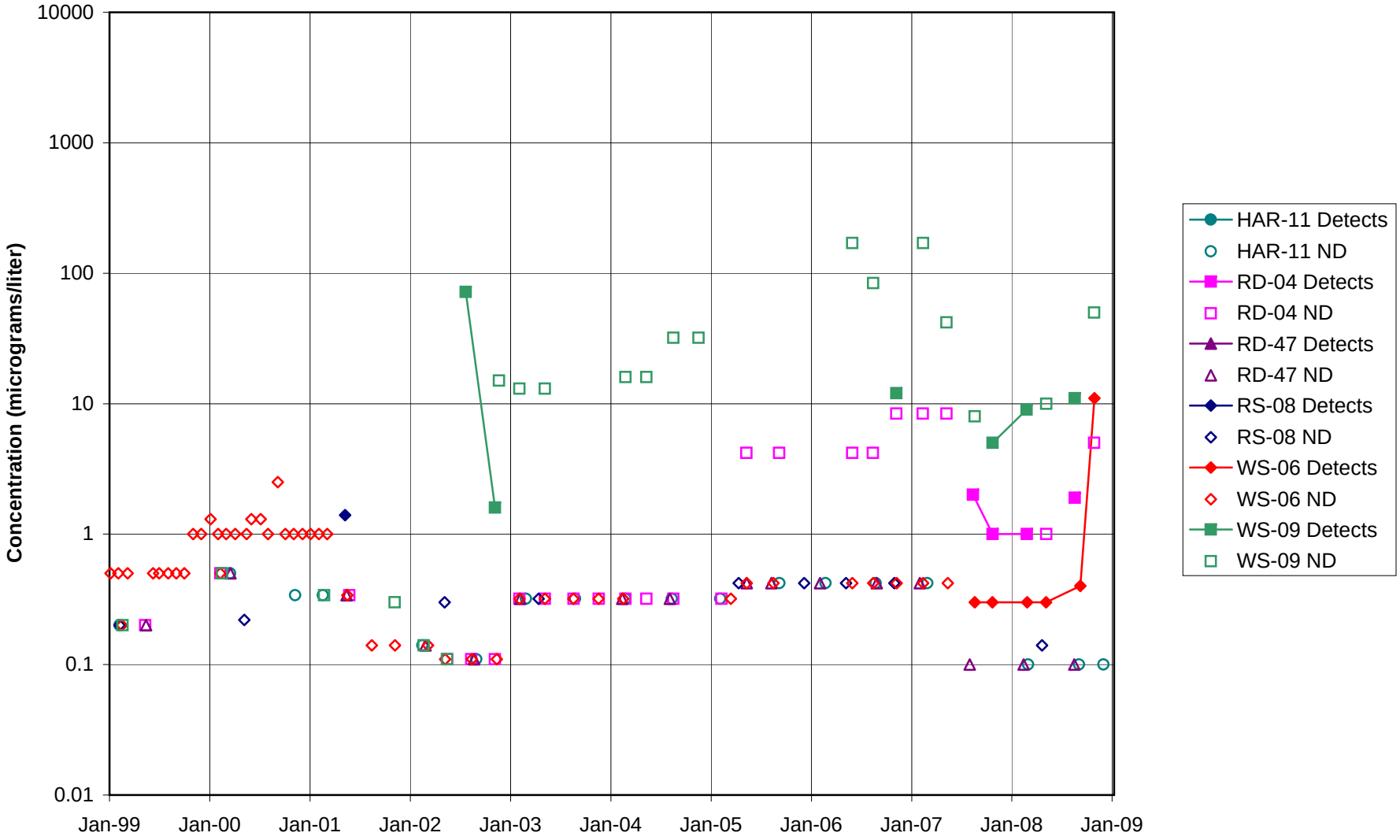


FIGURE F-48. 1,1-DCE in SPA AREA WELLS

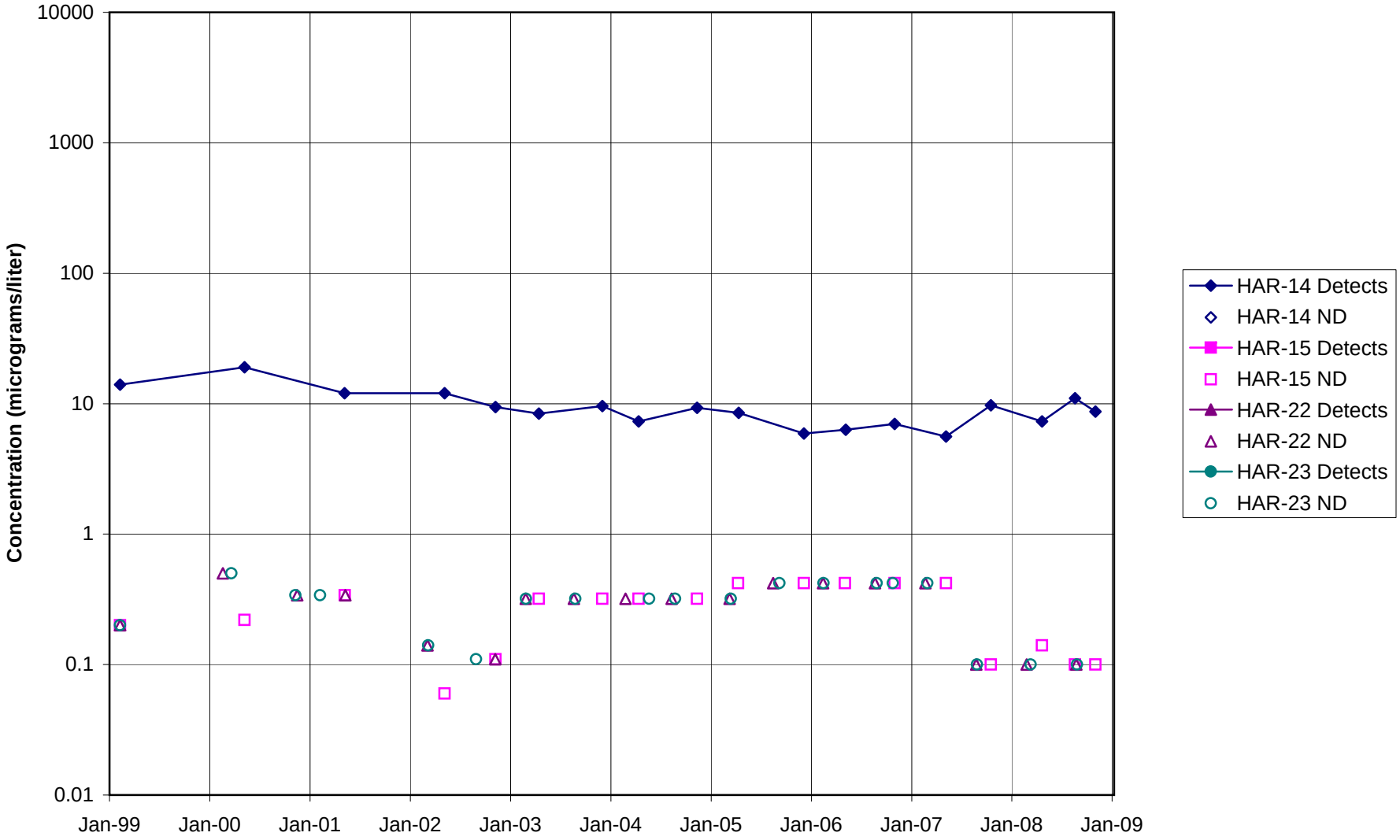


FIGURE F-49. 1,1-DCE in COCA / PLF AREA WELLS

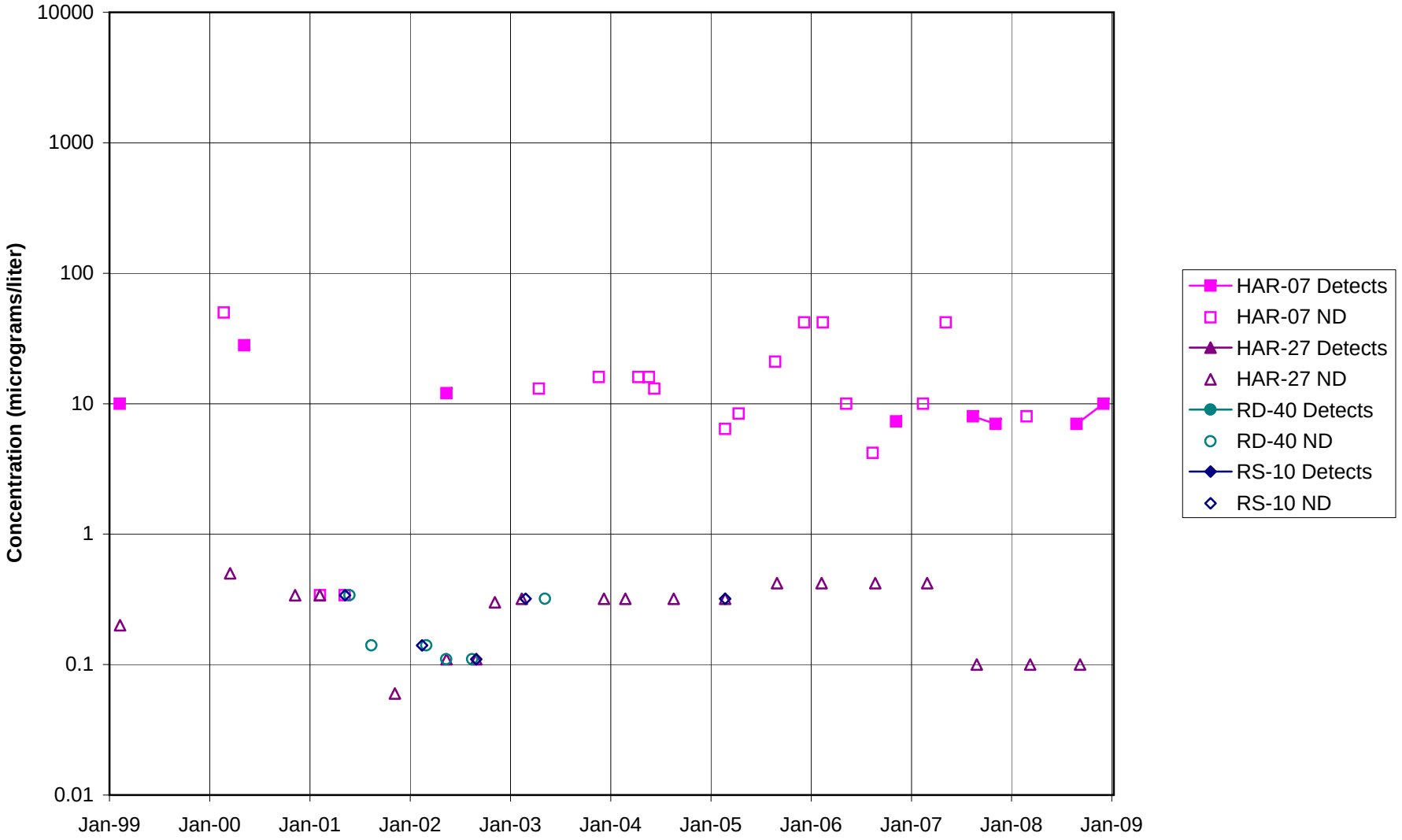


FIGURE F-50. 1,1-DCE in DELTA / BUFFER ZONE AREA WELLS

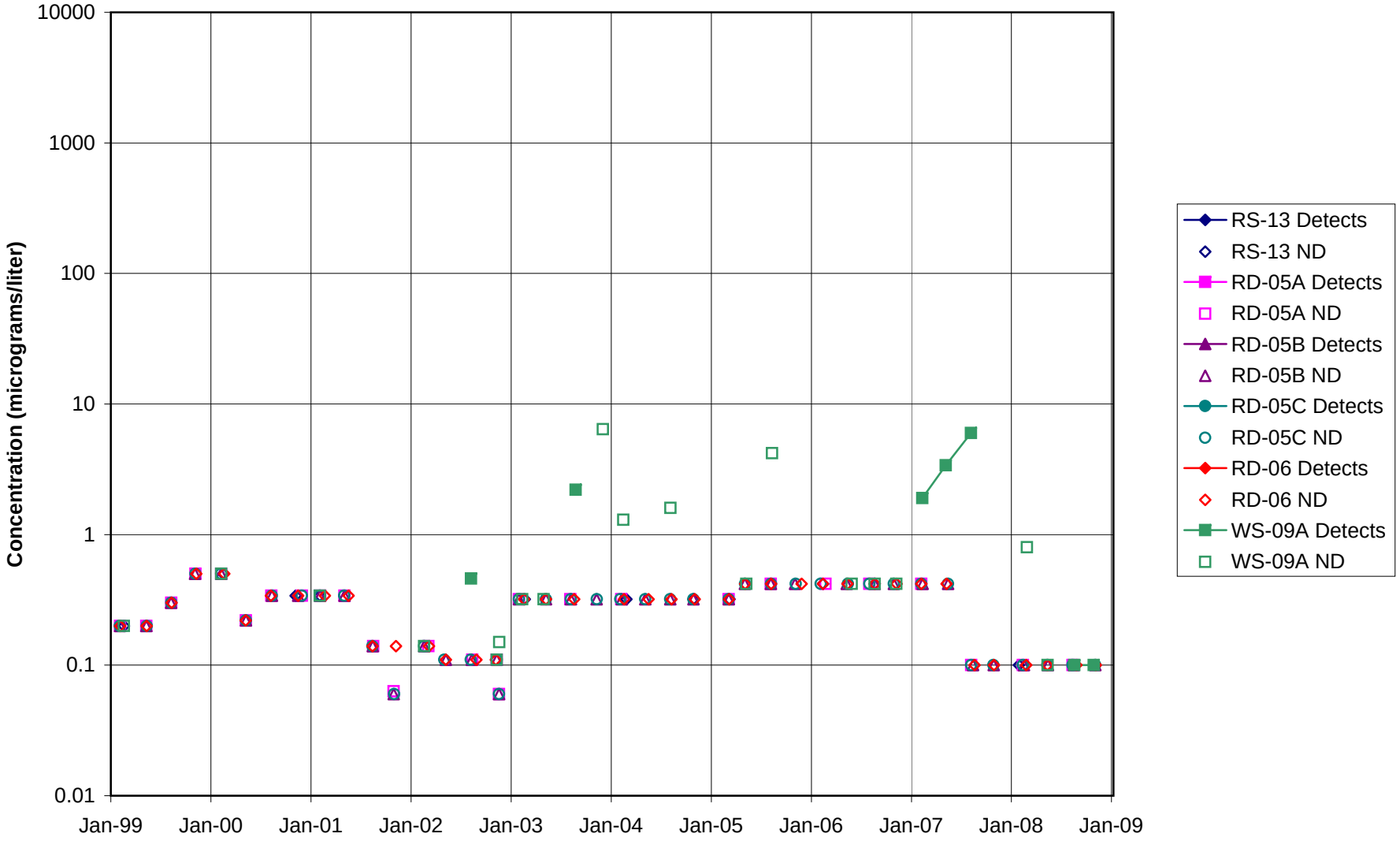


FIGURE F-51. 1,1-DCE in AREA IV WELLS

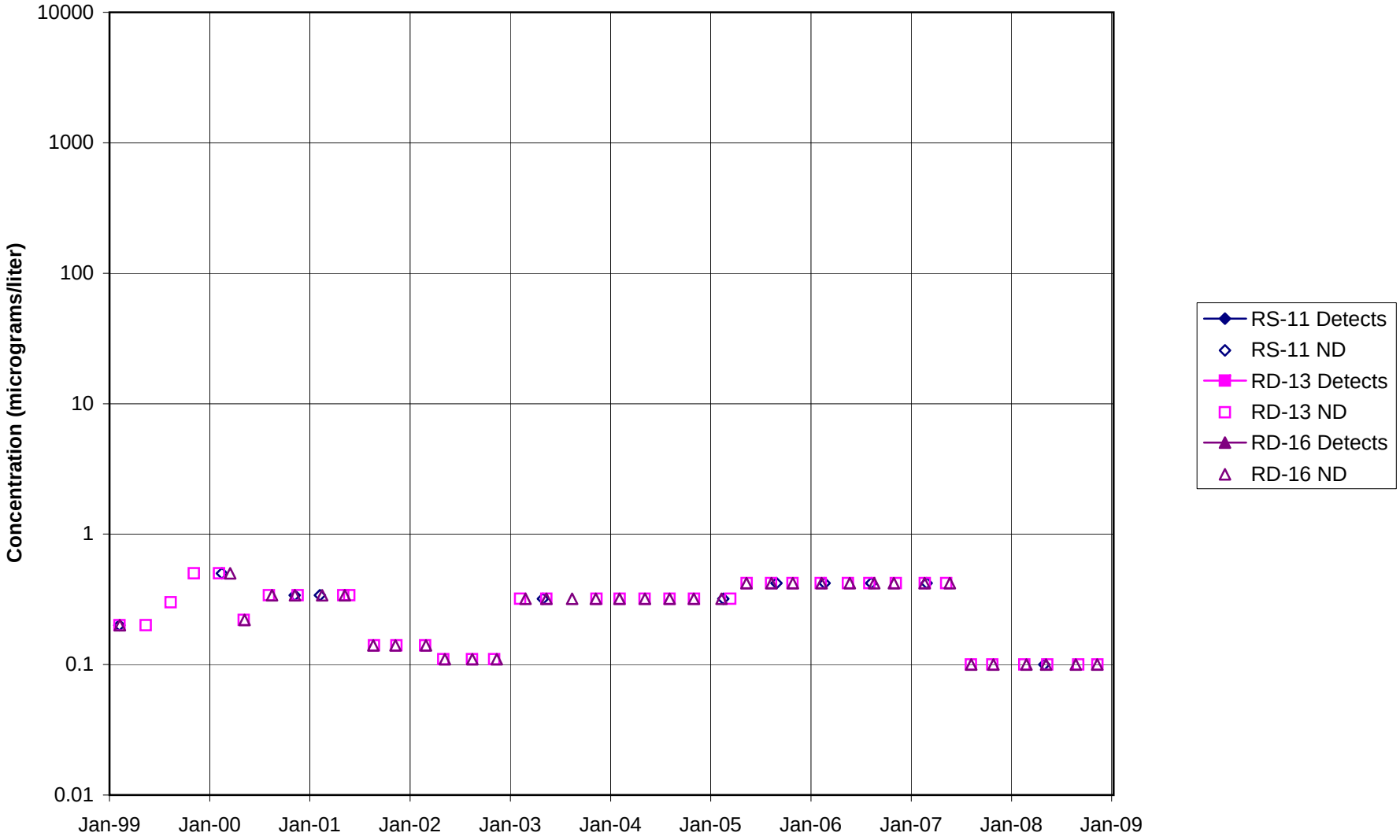


FIGURE F-52. 1,1-DCA IN STL-IV AREA SHALLOW WELLS

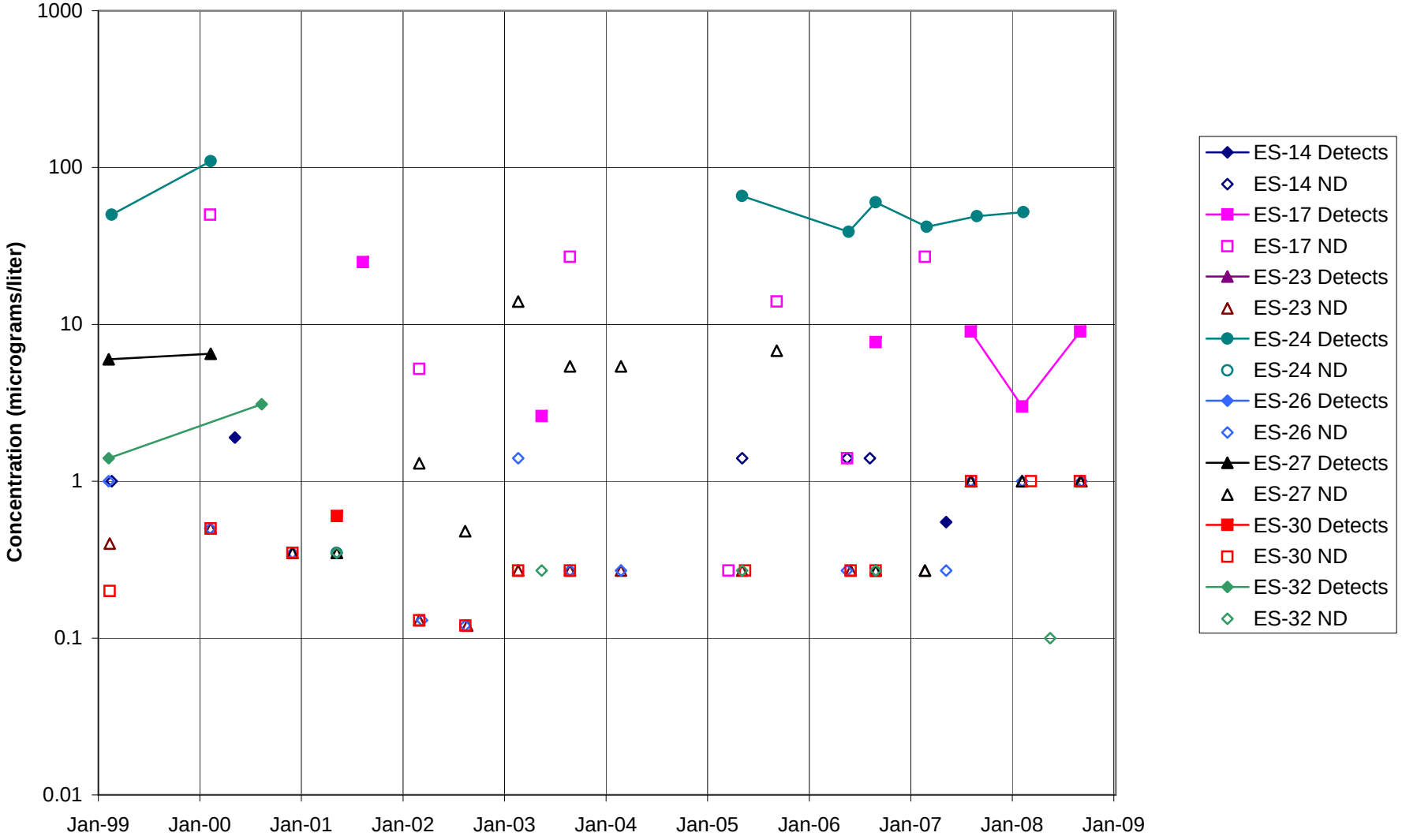


FIGURE F-53. 1,1-DCA IN STL-IV AREA CHATSWORTH FORMATION WELLS

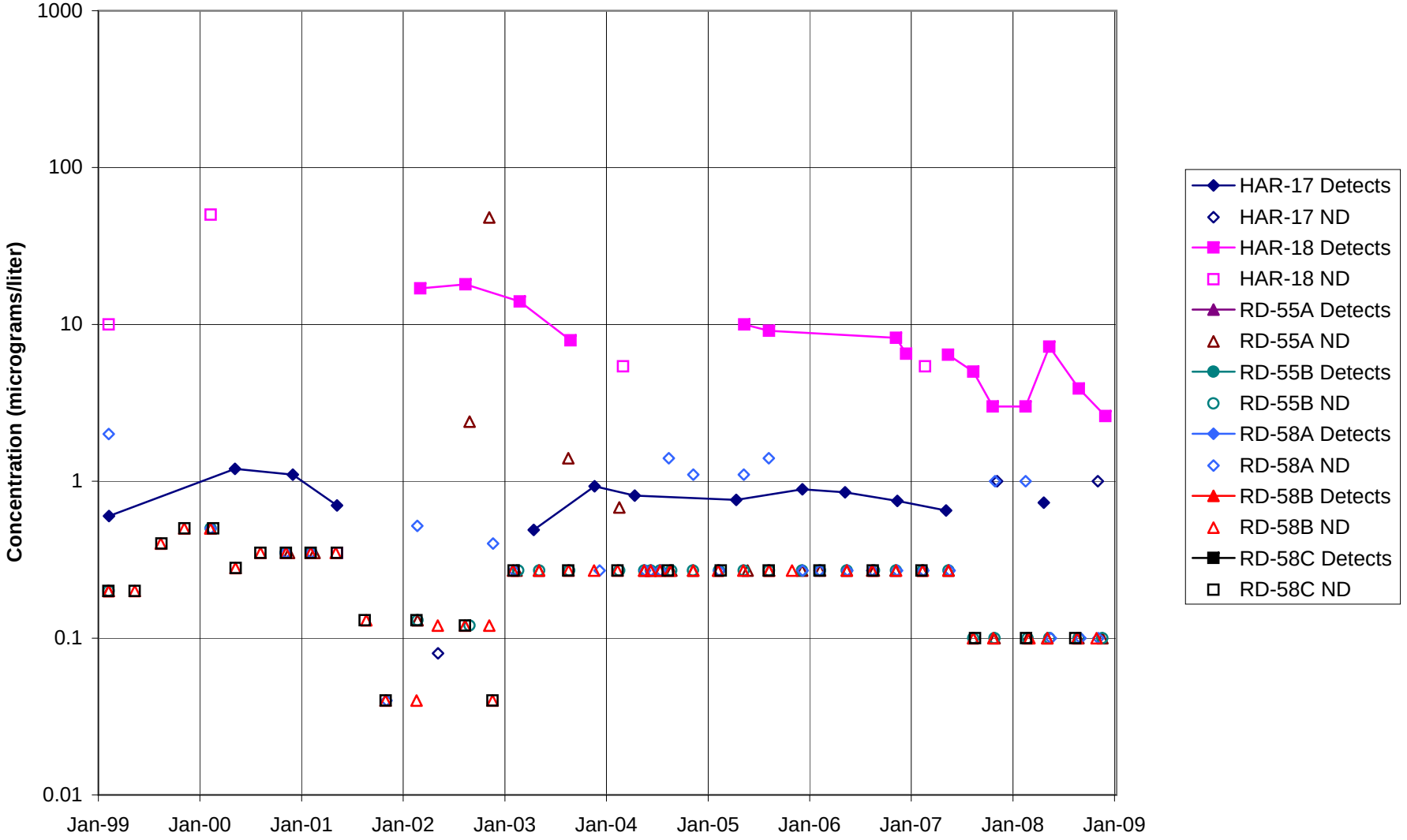


FIGURE F-54. 1,1-DCA IN MAIN GATE AREA WELLS - 1

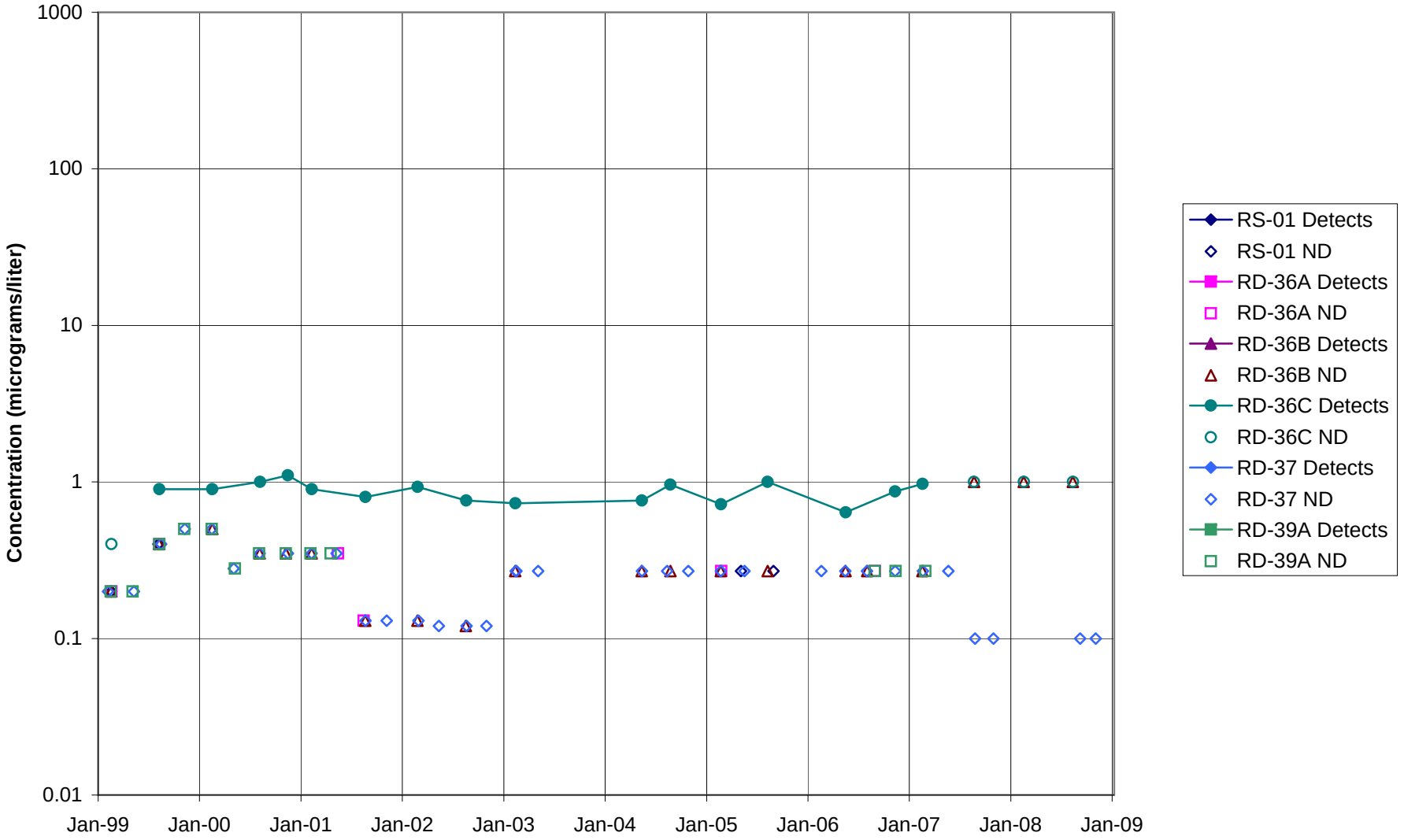


FIGURE F-55. 1,1-DCA IN MAIN GATE AREA WELLS - 2

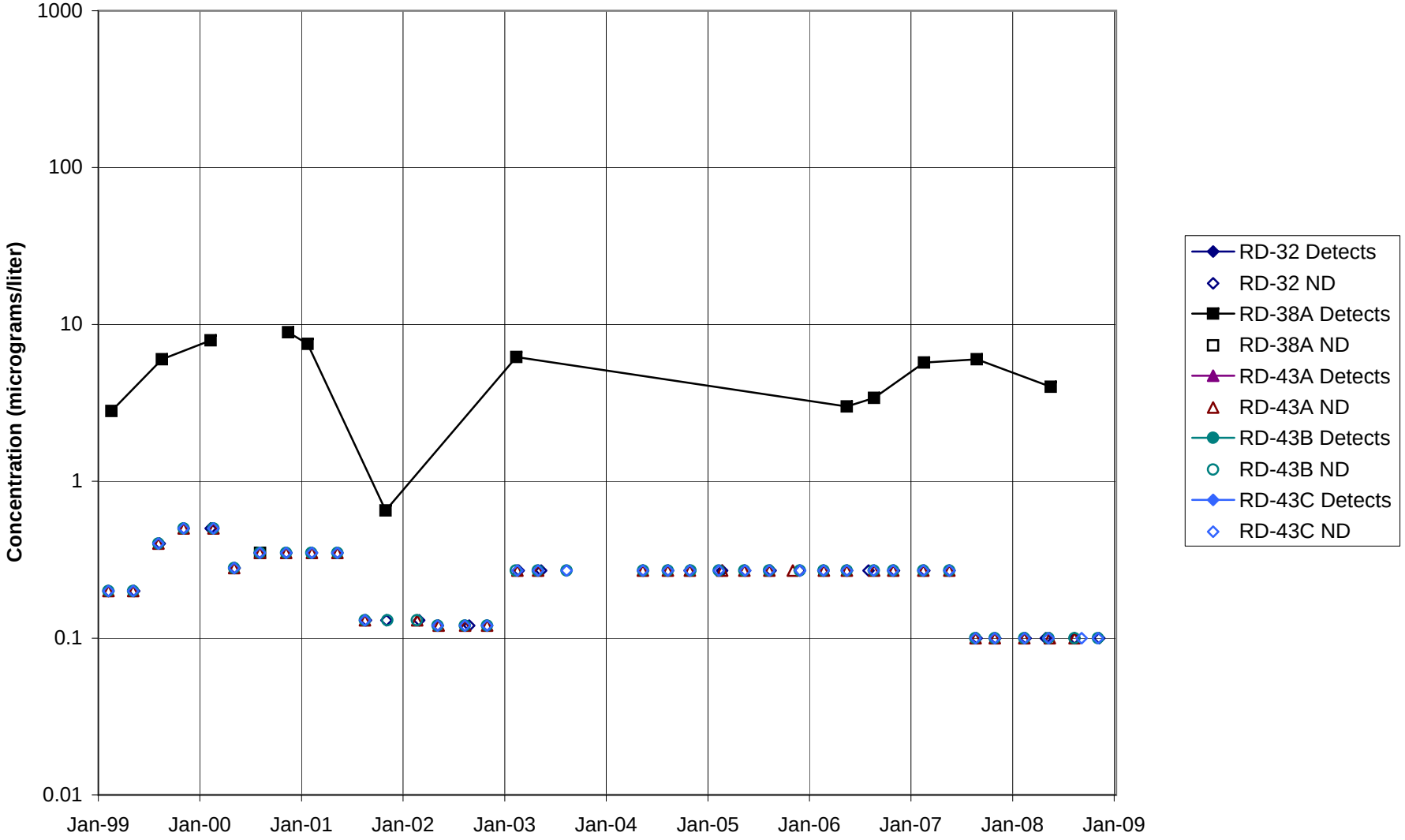


FIGURE F-56. 1,1-DCA IN APTF, CANYON, & HAPPY VALLEY AREA WELLS - 1

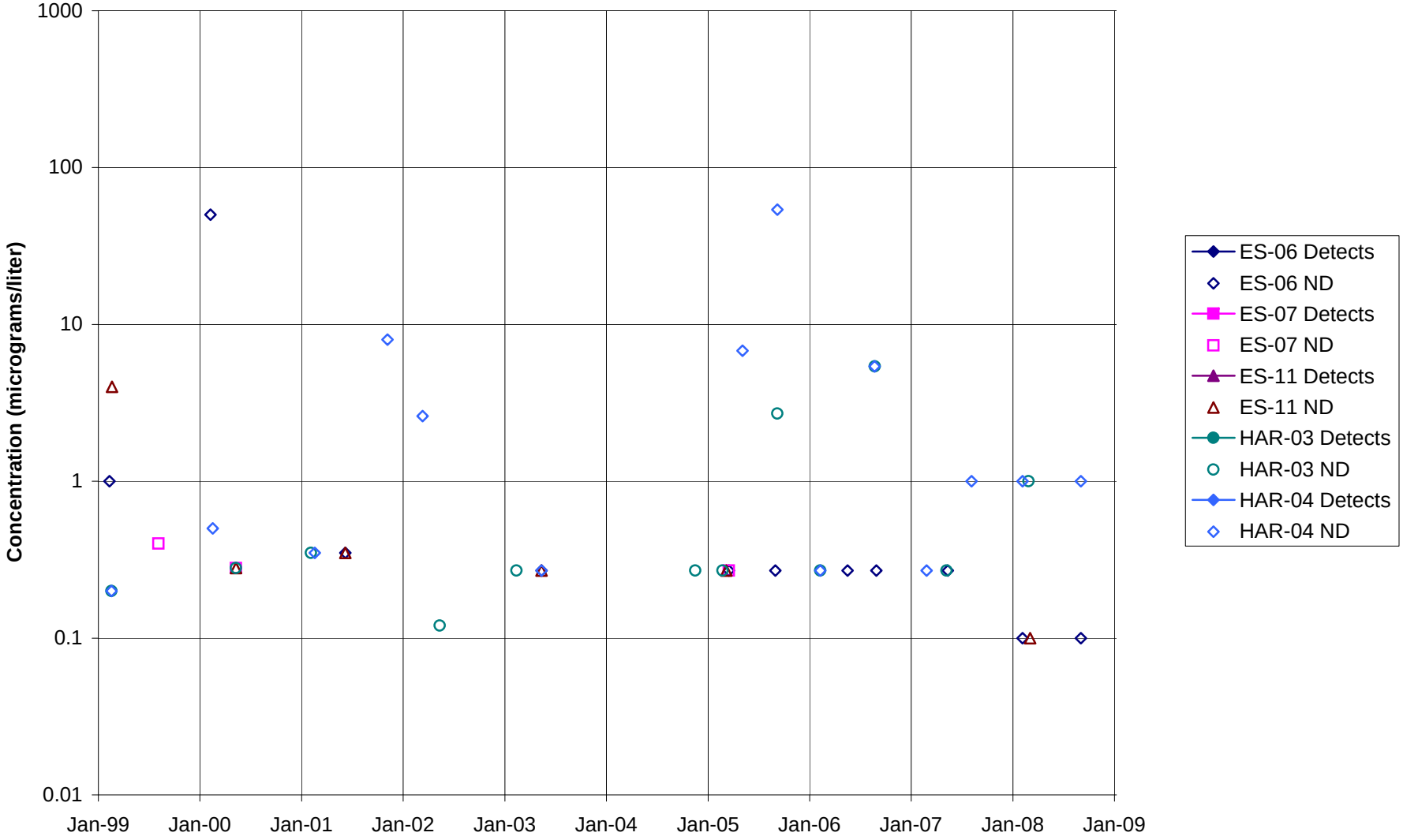


FIGURE F-57. 1,1-DCA IN APTF, CANYON, & HAPPY VALLEY AREA WELLS - 2

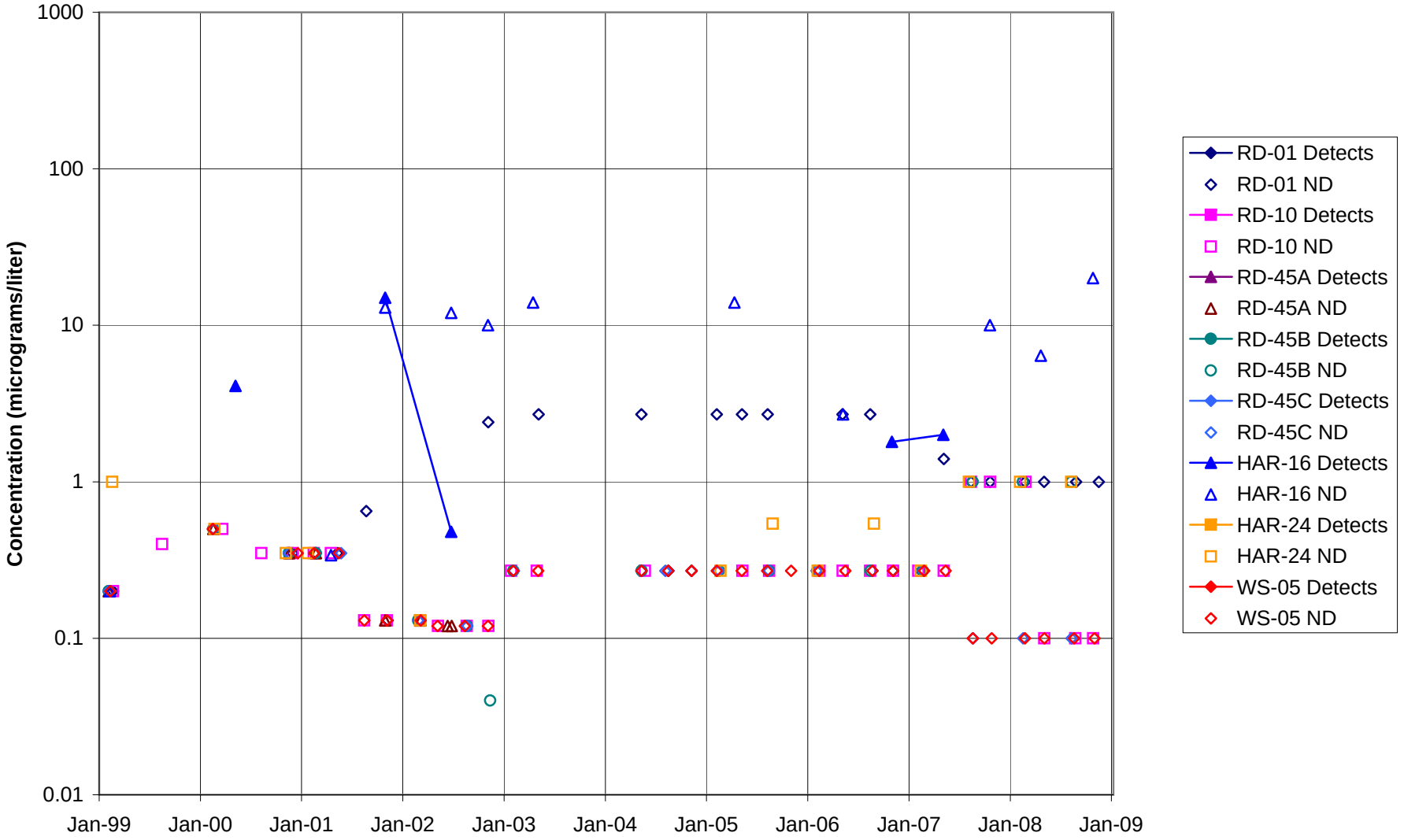


FIGURE F-58. 1,1-DCA IN CTL-III / PERIMETER POND AREA WELLS

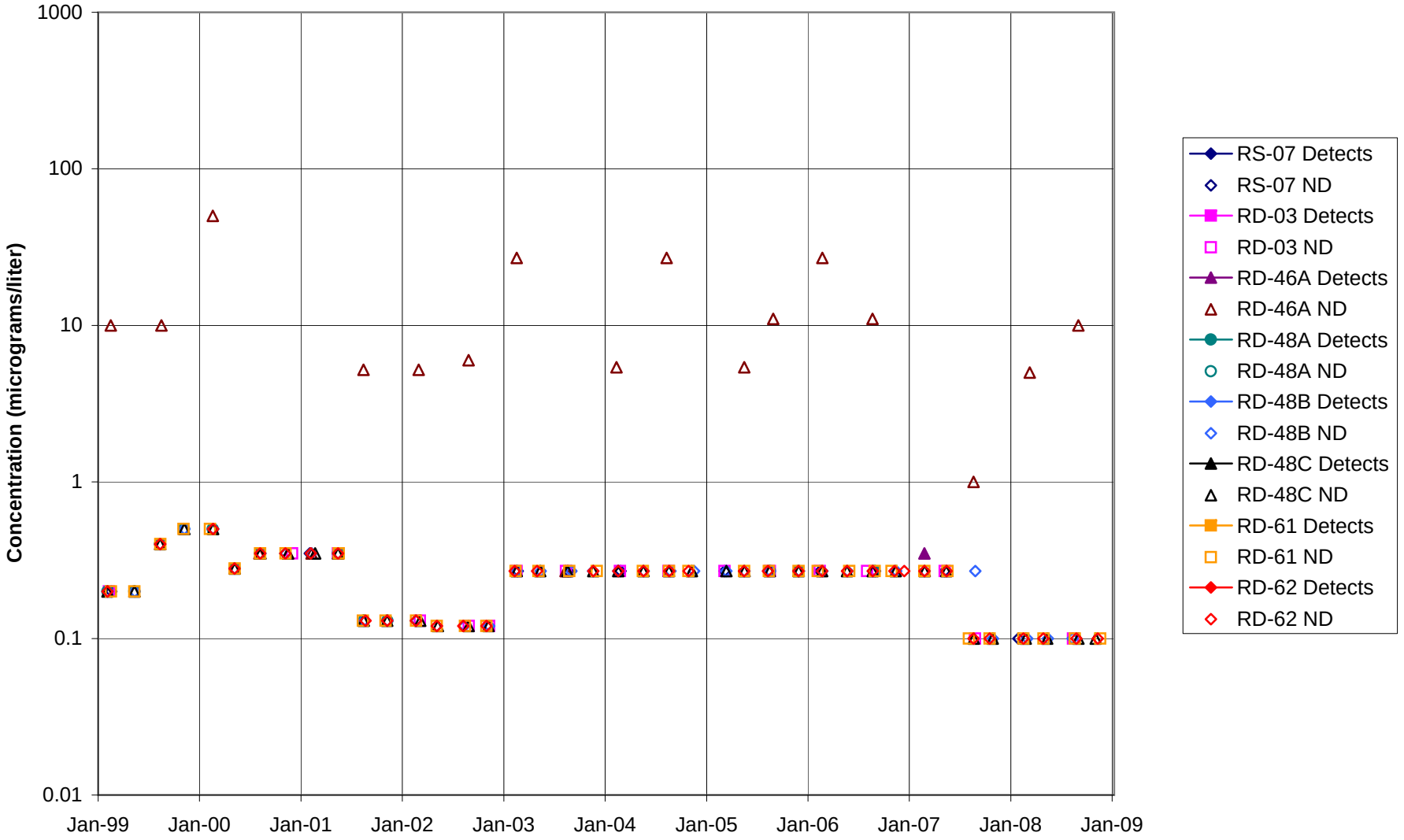


FIGURE F-59. 1,1-DCA IN BOWL AREA WELLS

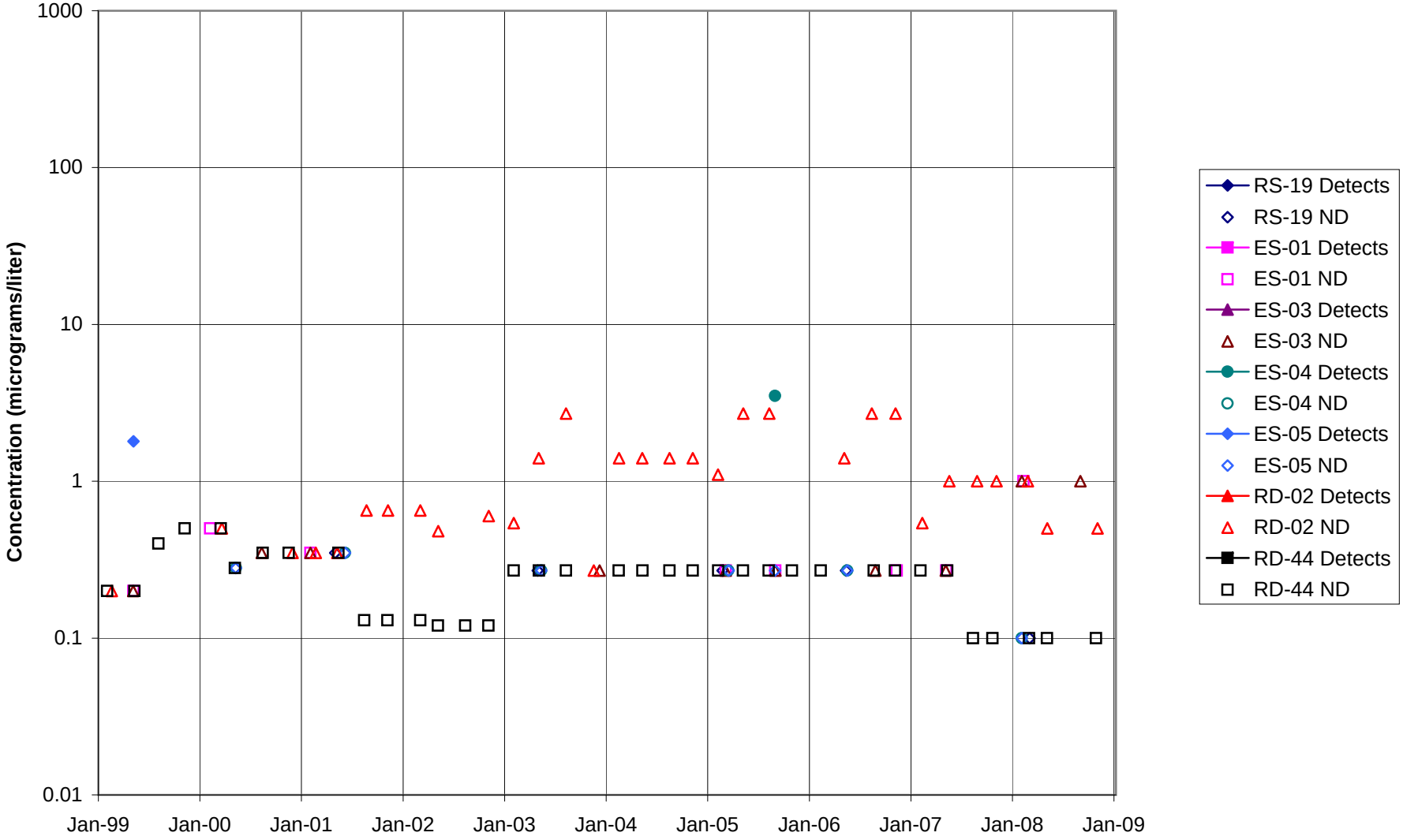


FIGURE F-60. 1,1-DCA IN ECL AREA WELLS

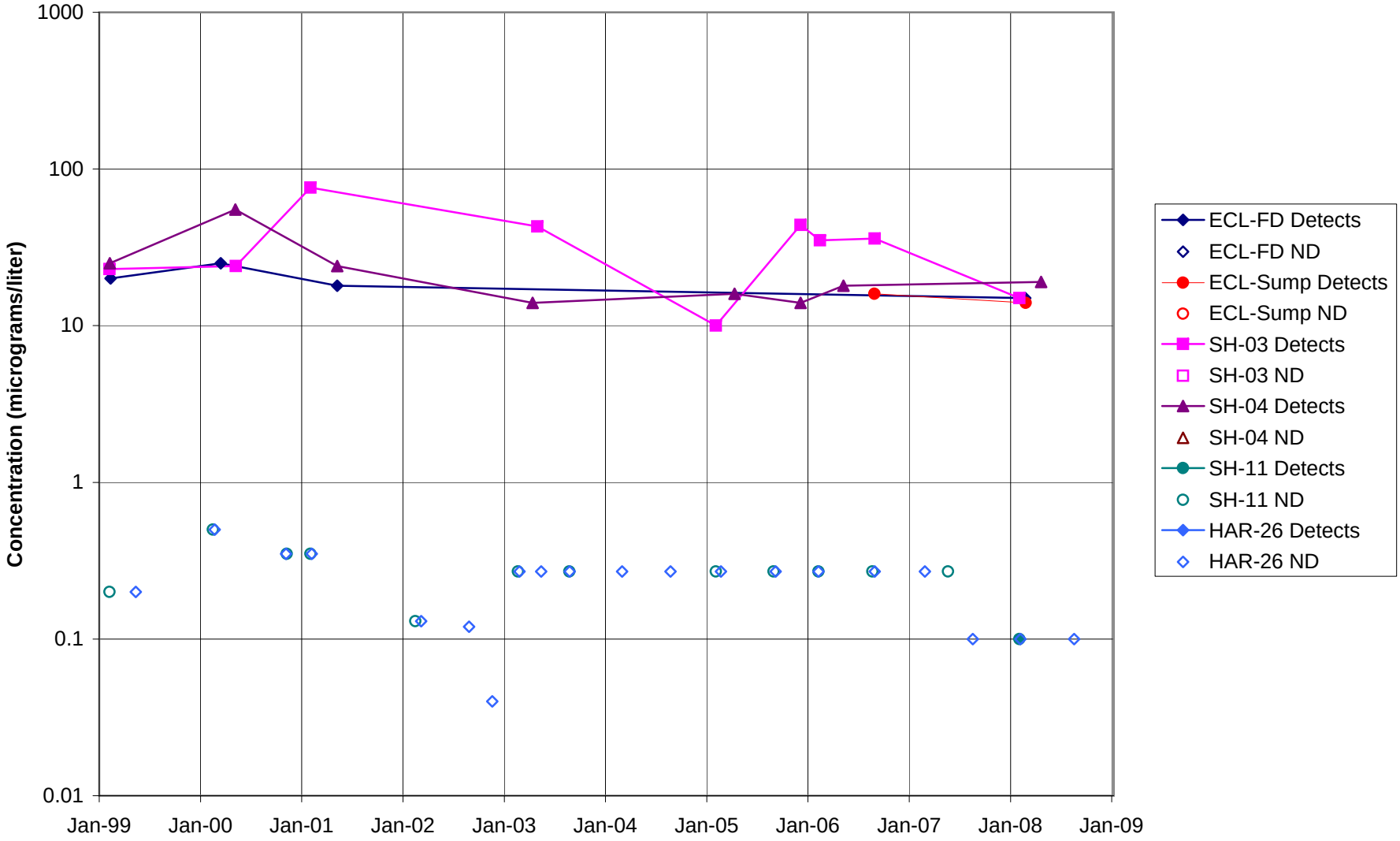


FIGURE F-61. 1,1-DCA IN FORMER LOX PLANT AREA WELLS

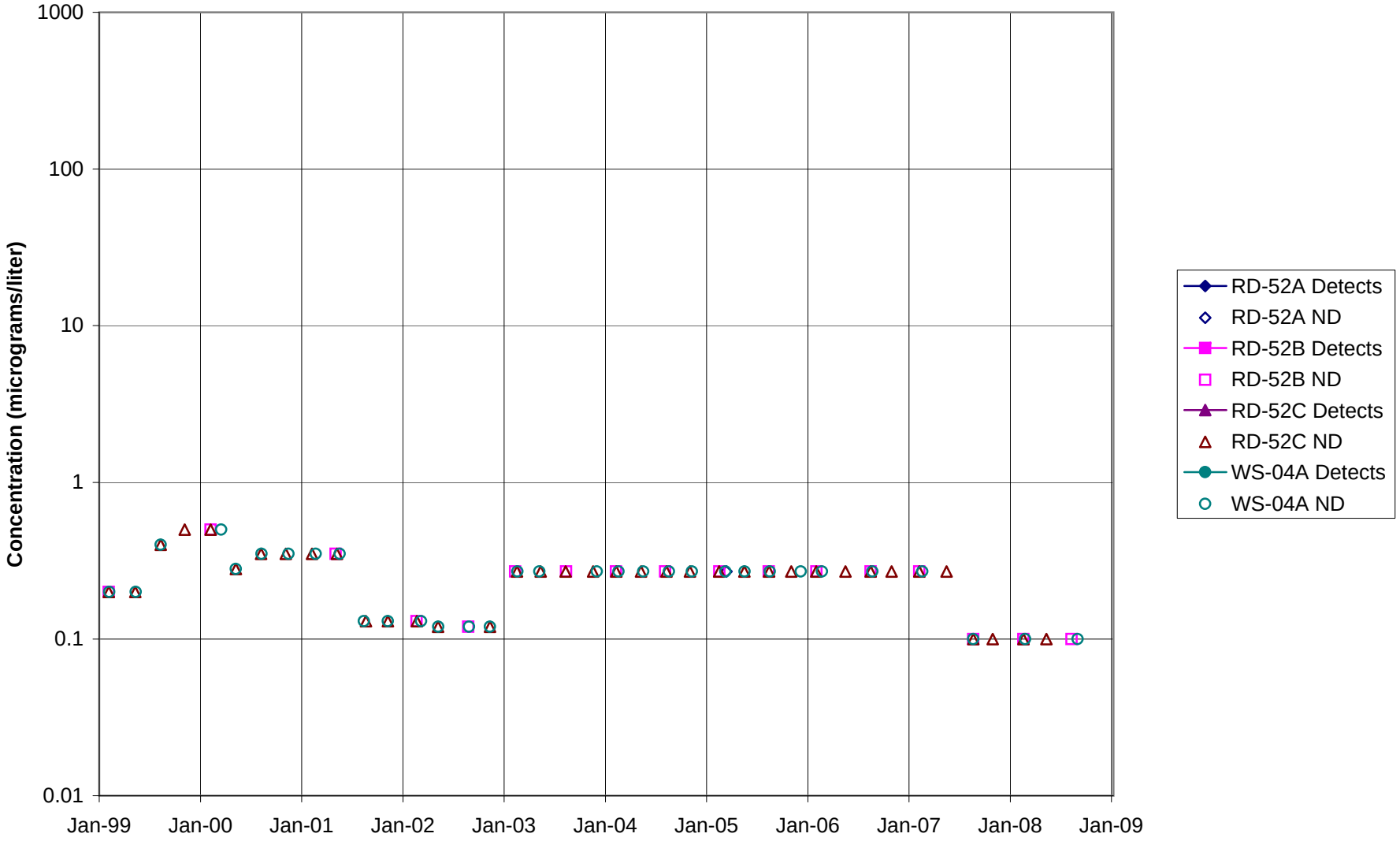


FIGURE F-62. 1,1-DCA IN RD-09 AREA WELLS

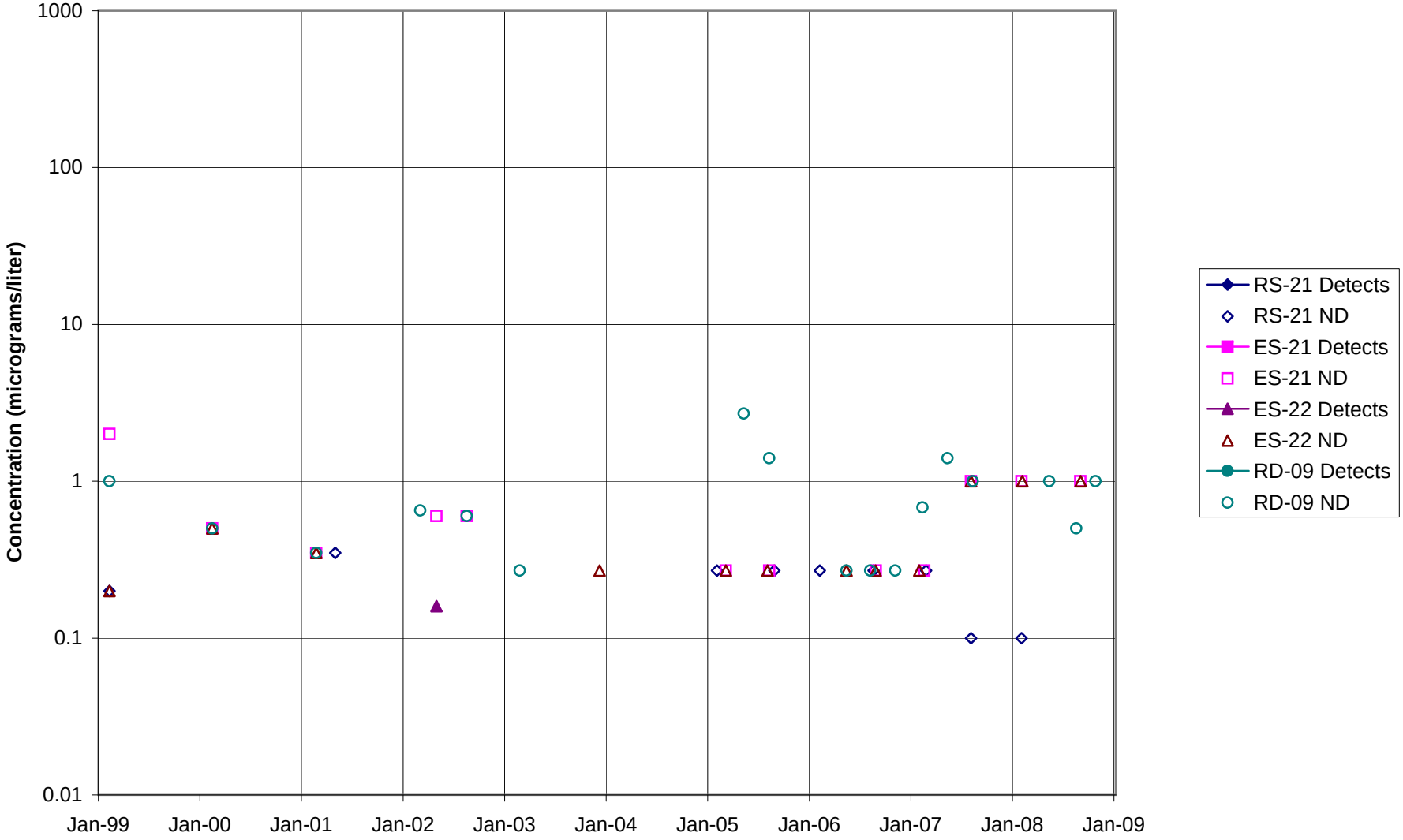


FIGURE F-63. 1,1-DCA IN HELIPORT, B/204 AREA WELLS

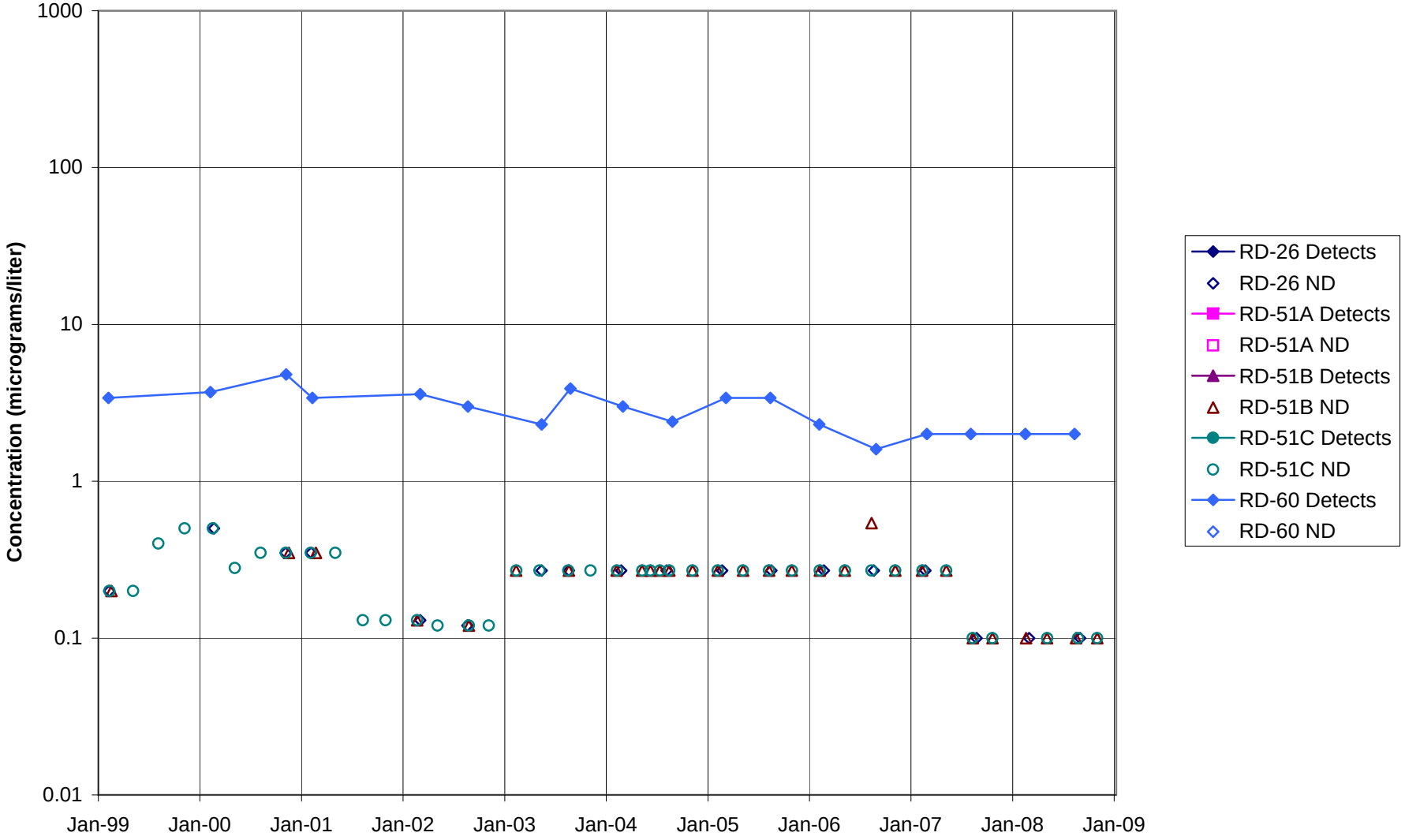


FIGURE F-64. 1,1-DCA IN ALFA / BRAVO AREA WELLS

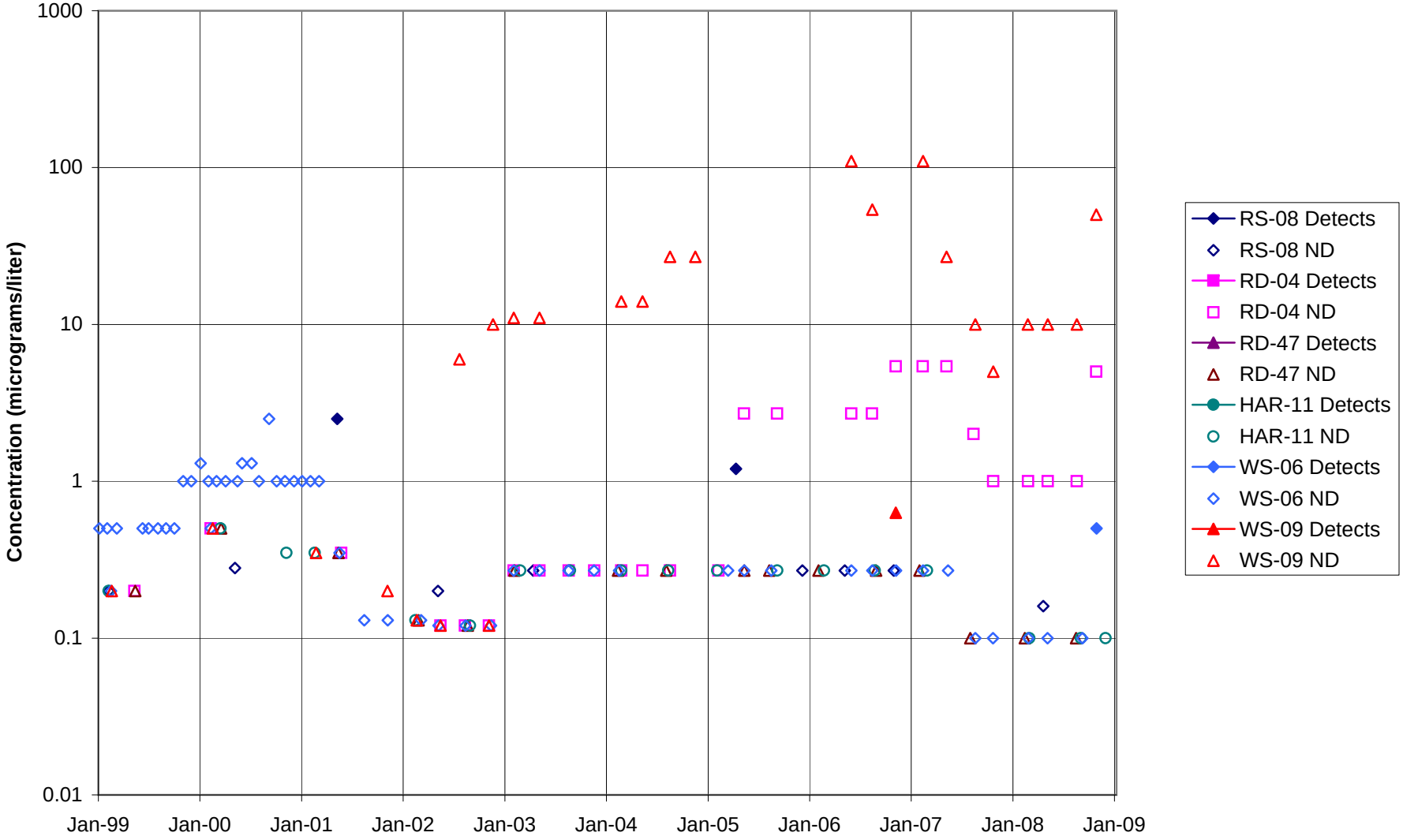


FIGURE F-65. 1,1-DCA IN SPA AREA WELLS

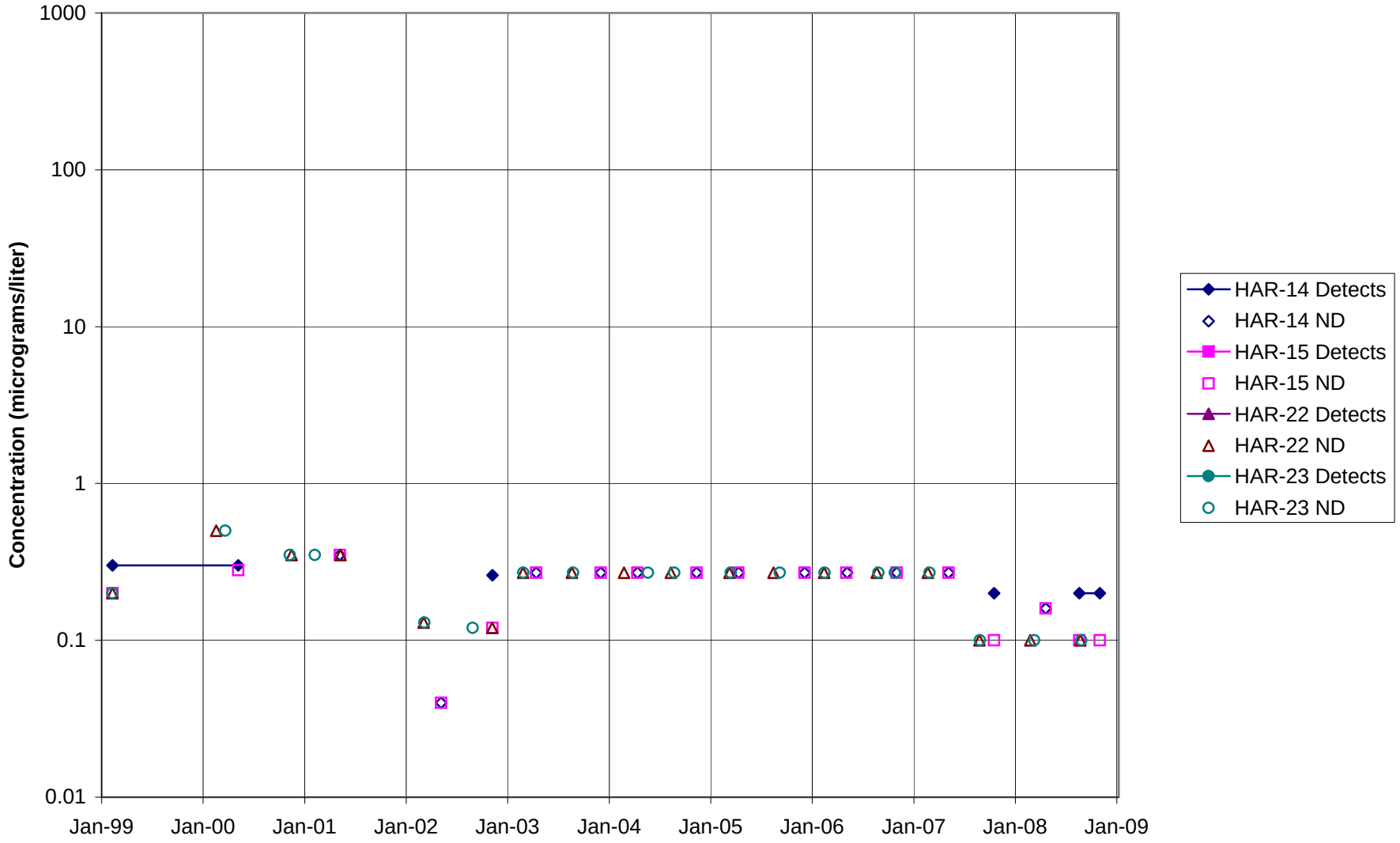


FIGURE F-66. 1,1-DCA IN COCA / PLF AREA WELLS

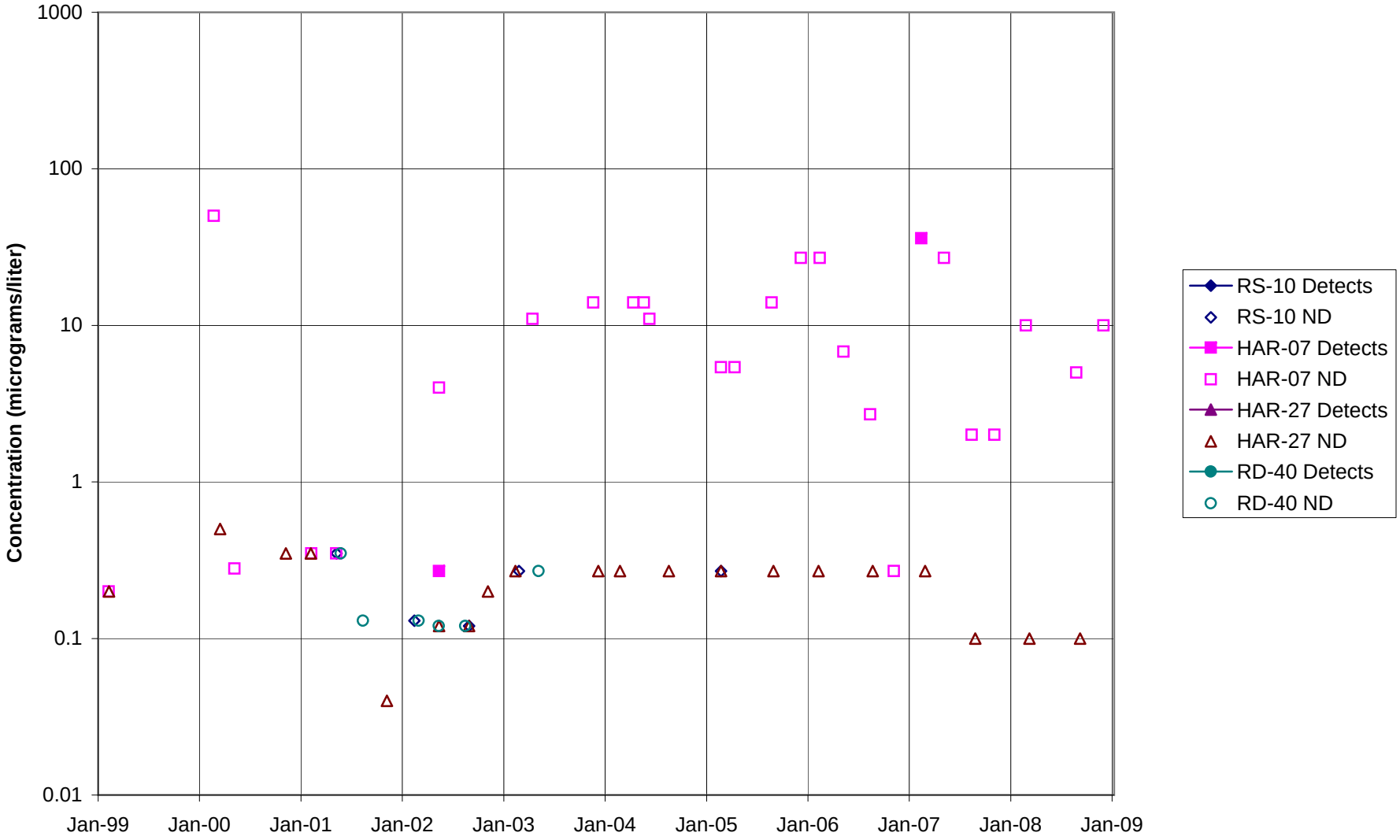


FIGURE F-67. 1,1-DCA IN DELTA / BUFFER ZONE AREA WELLS

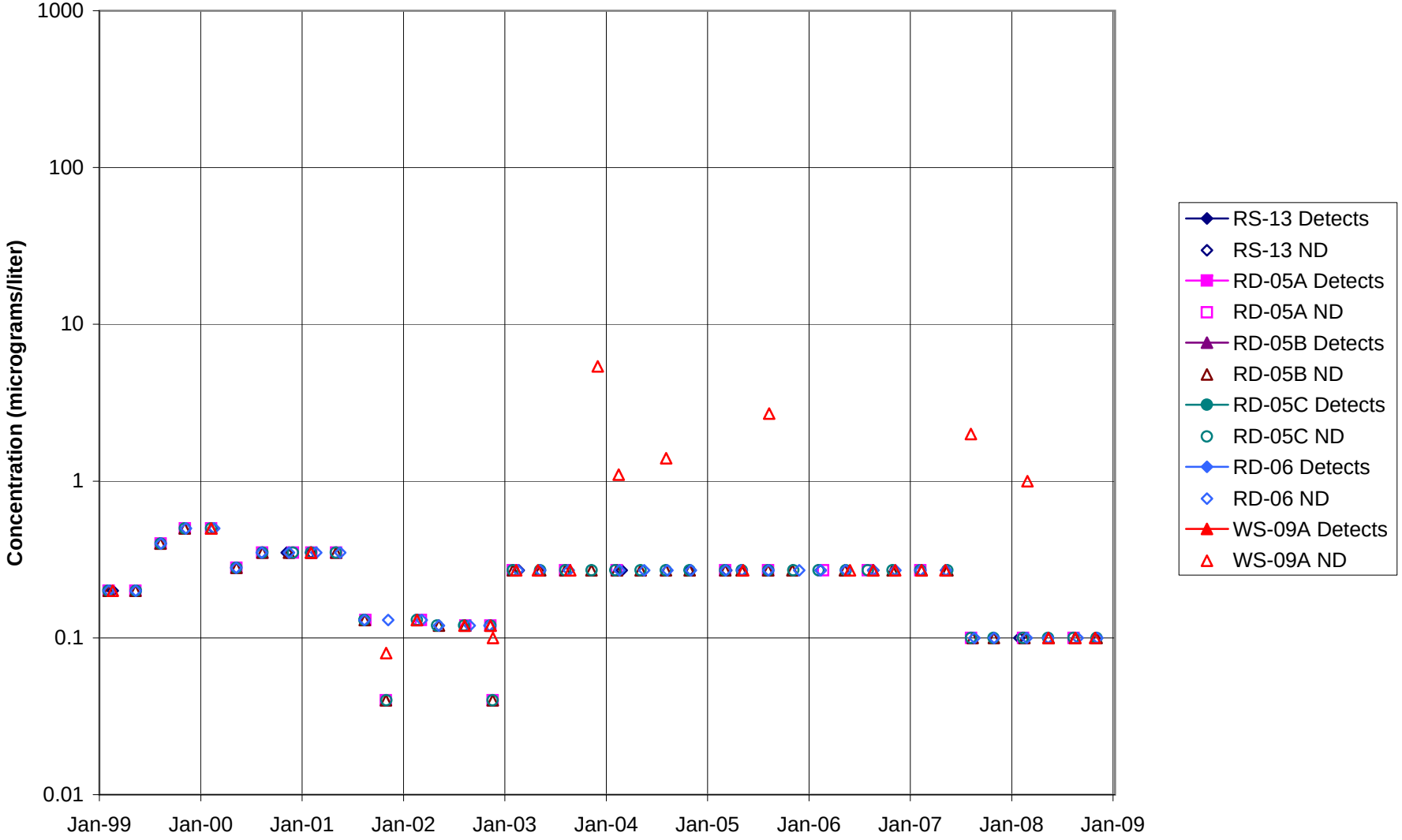


FIGURE F-68. 1,1-DCA IN AREA IV WELLS

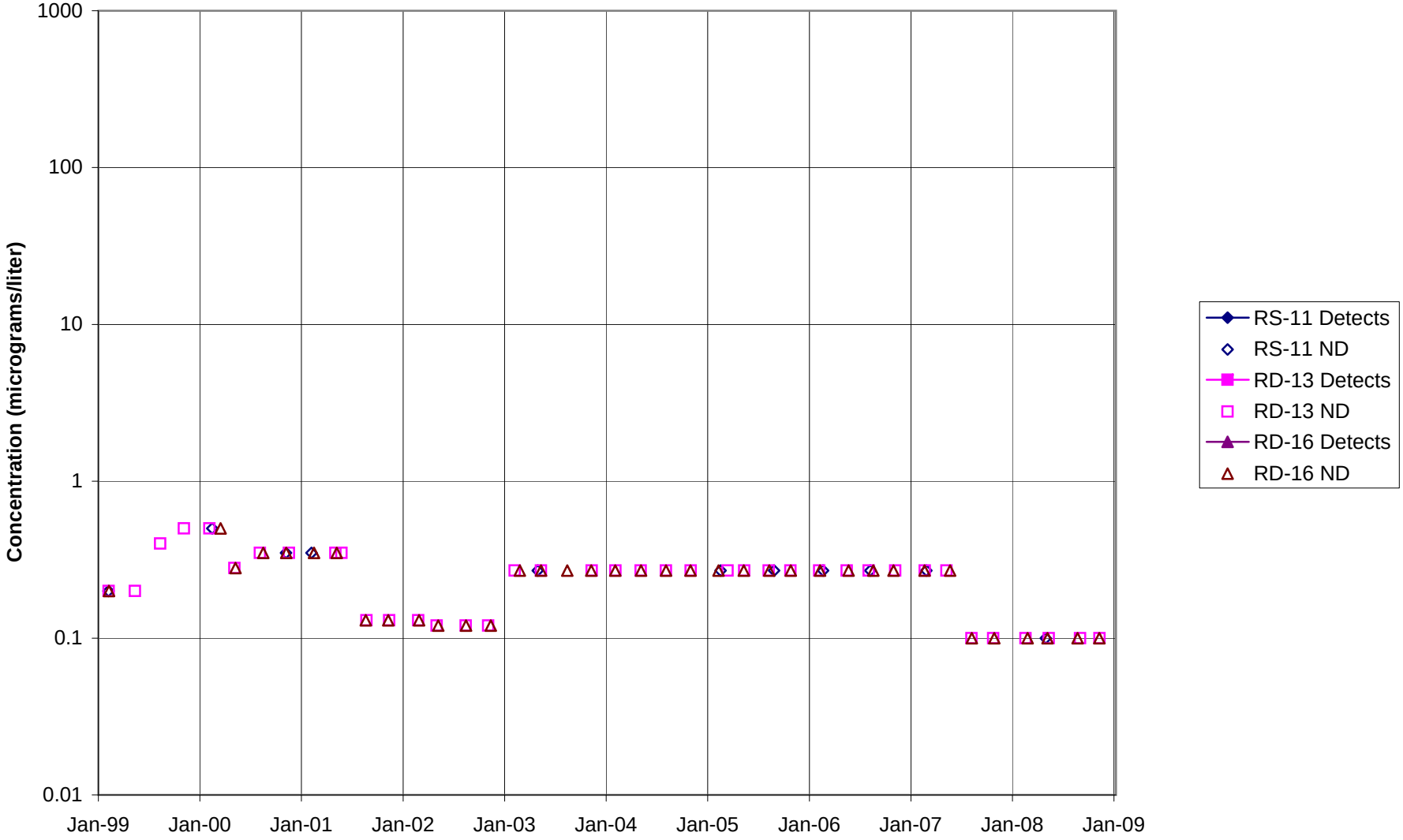


FIGURE F-69. 1,2-DCA in STL-IV AREA SHALLOW WELLS

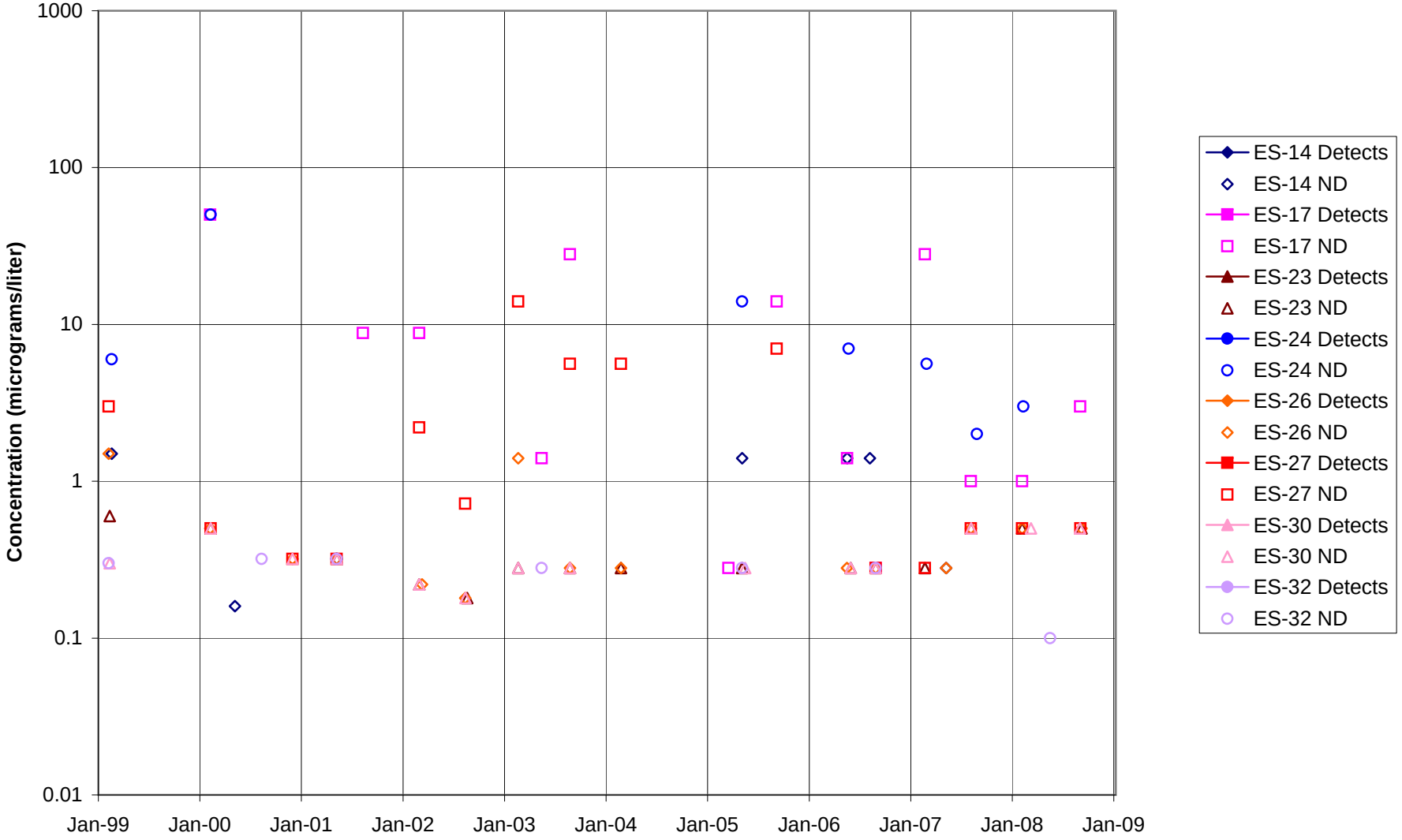


FIGURE F-70. 1,2-DCA in STL-IV AREA CHATSWORTH FORMATION WELLS

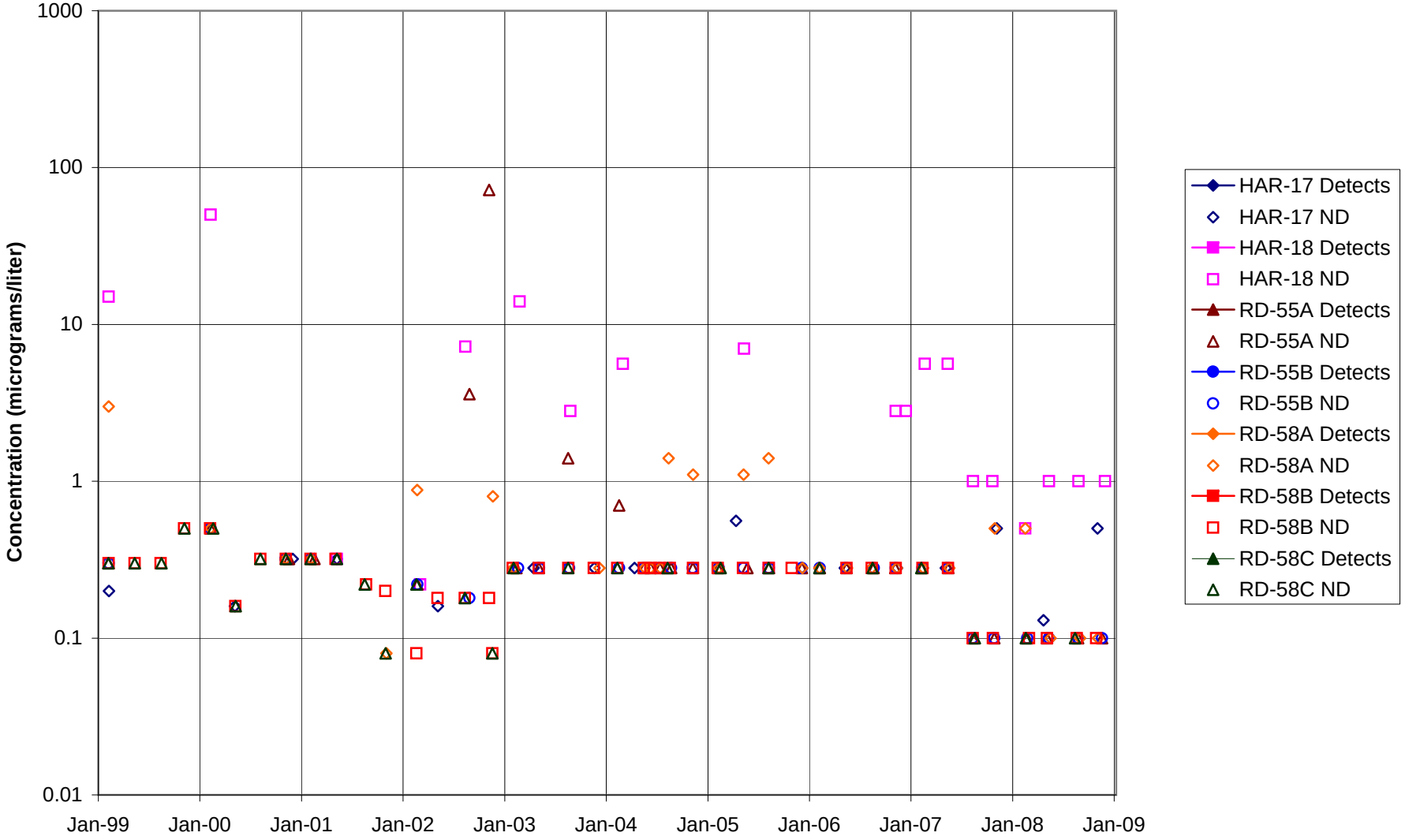


FIGURE F-71. 1,2-DCA in MAIN GATE AREA WELLS - 1

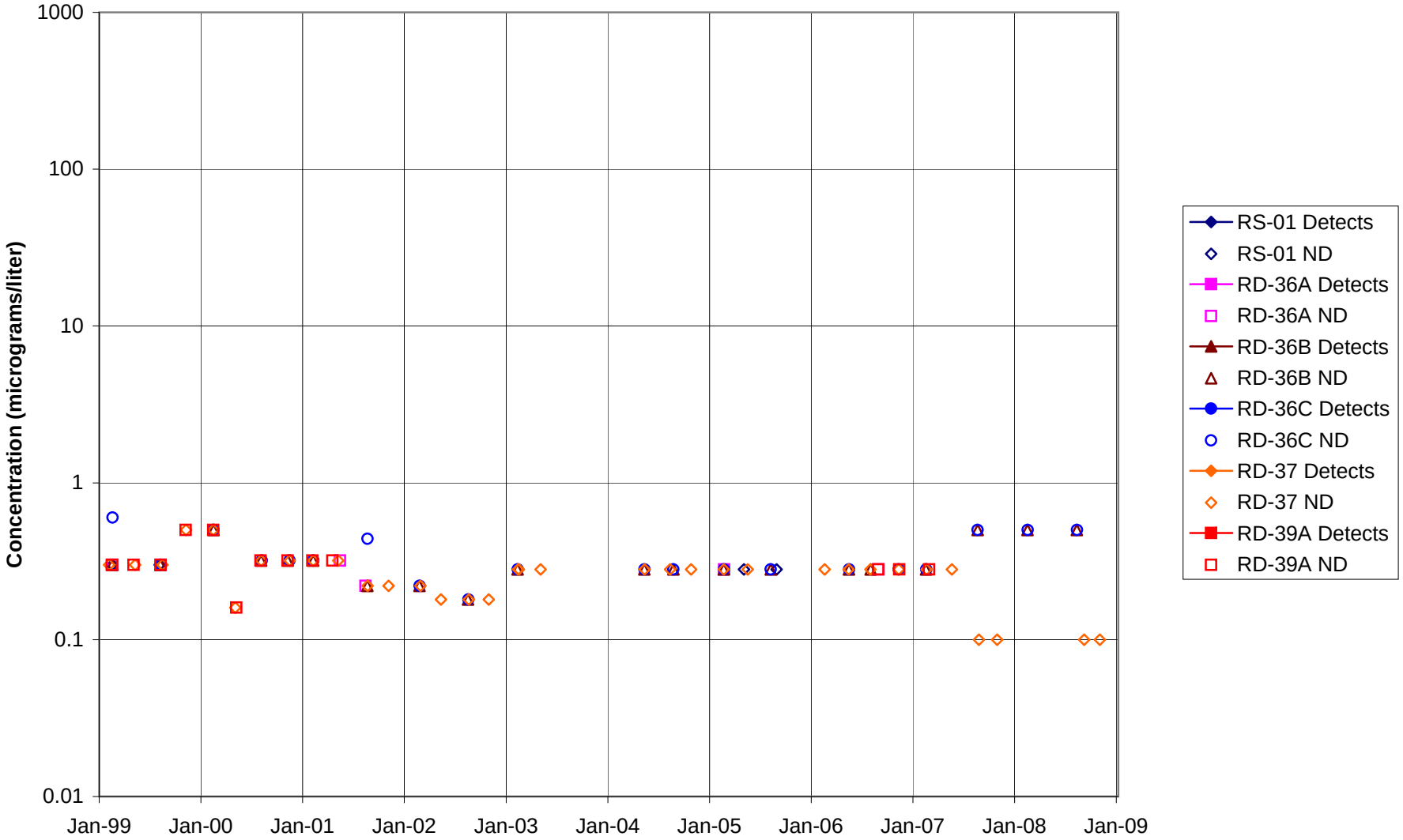


FIGURE F-72. 1,2-DCA in MAIN GATE AREA WELLS - 2

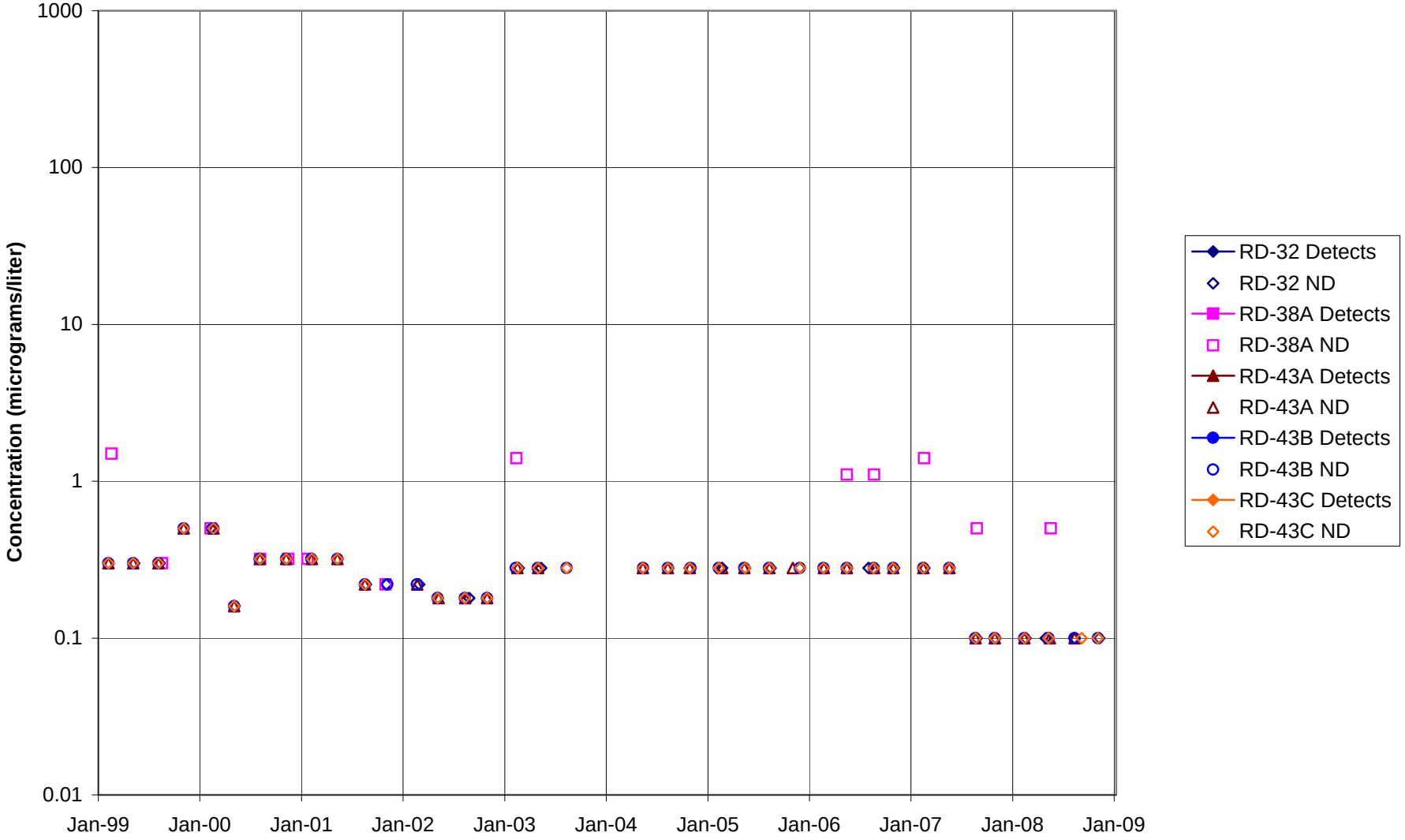


FIGURE F-73. 1,2-DCA in APTF, CANYON, & HAPPY VALLEY AREA WELLS - 1

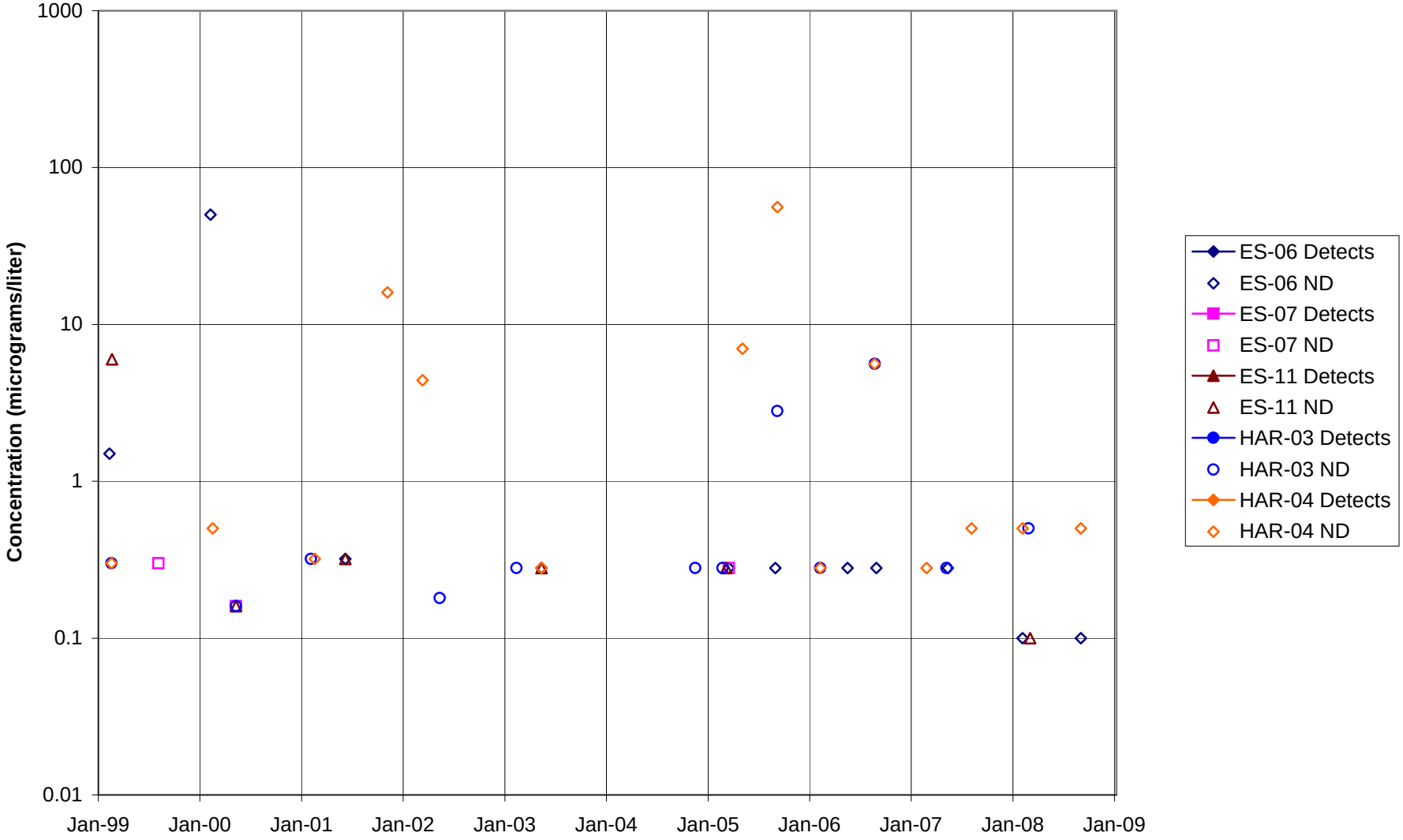


FIGURE F-74. 1,2-DCA in APTF, CANYON, & HAPPY VALLEY AREA WELLS - 2

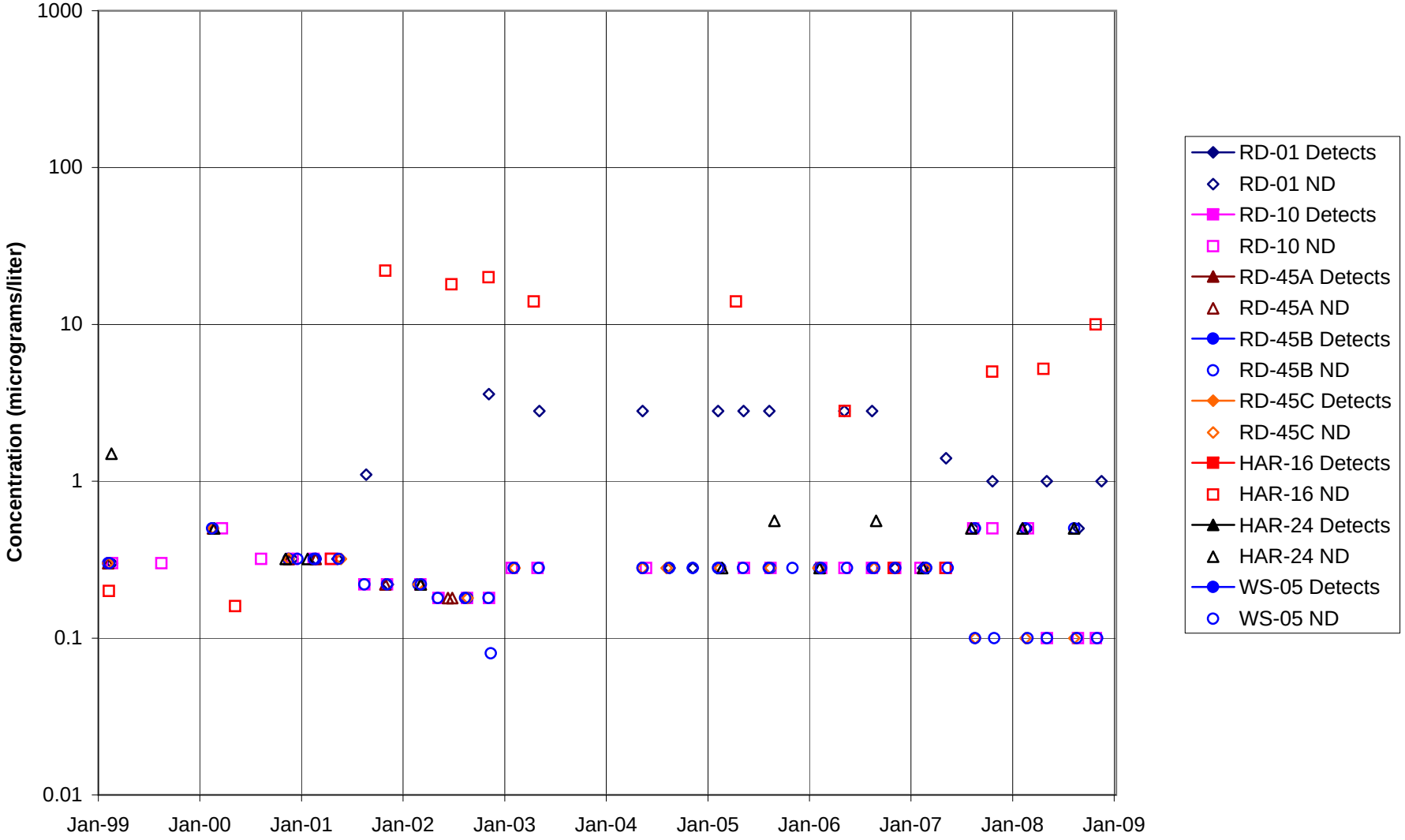


FIGURE F-75. 1,2-DCA in CTL-III / PERIMETER POND AREA WELLS

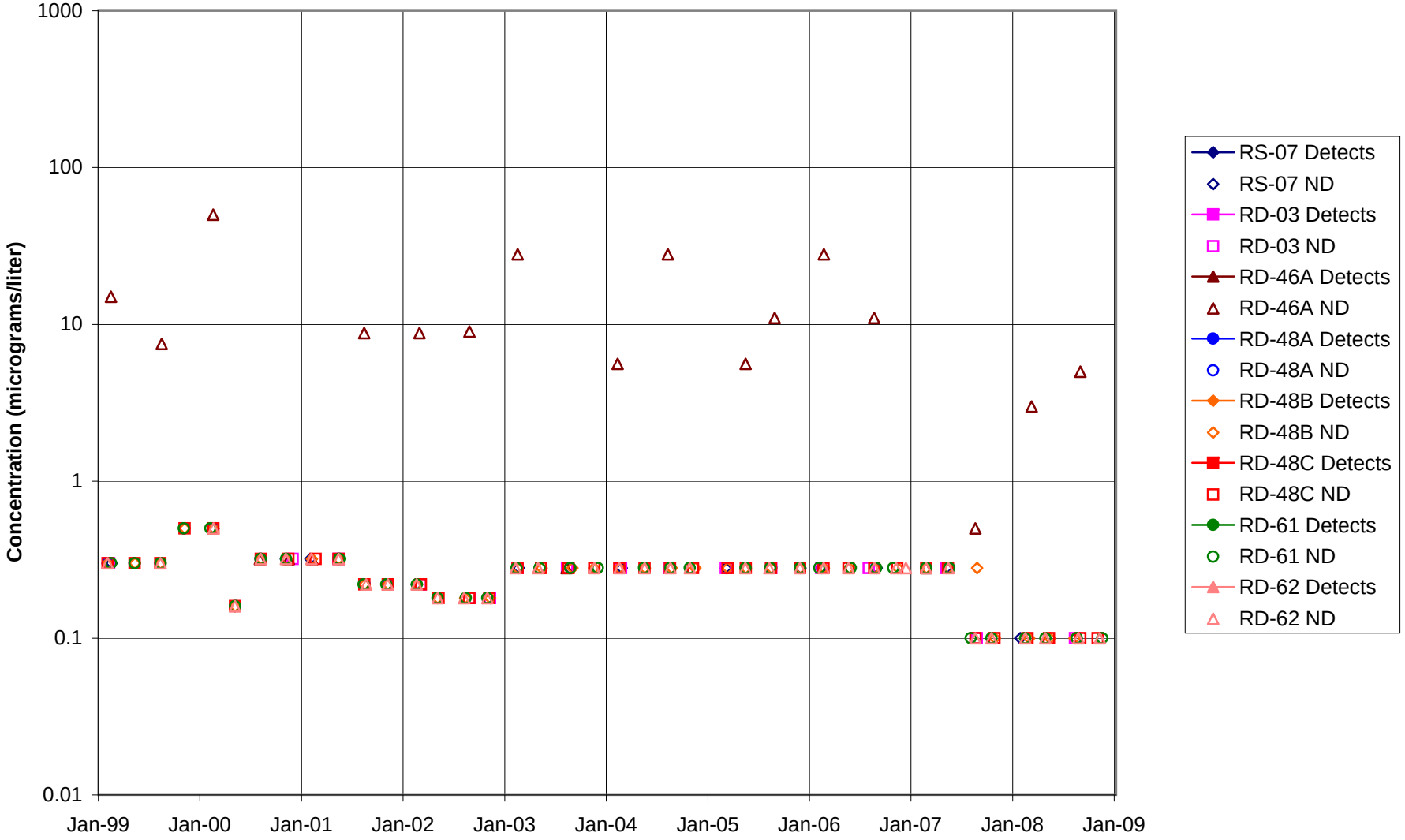


FIGURE F-76. 1,2-DCA in BOWL AREA WELLS

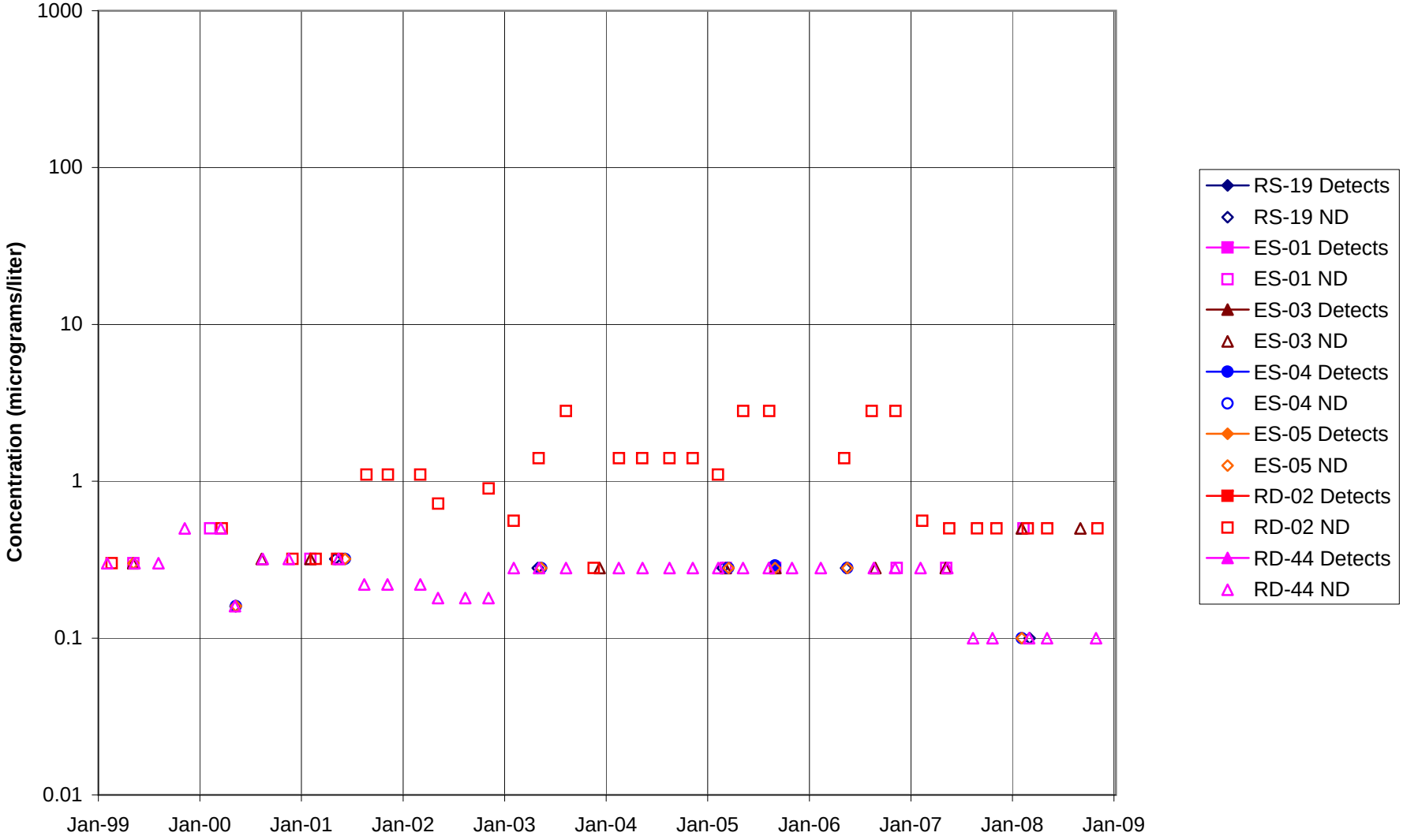


FIGURE F-77. 1,2-DCA in ECL AREA WELLS

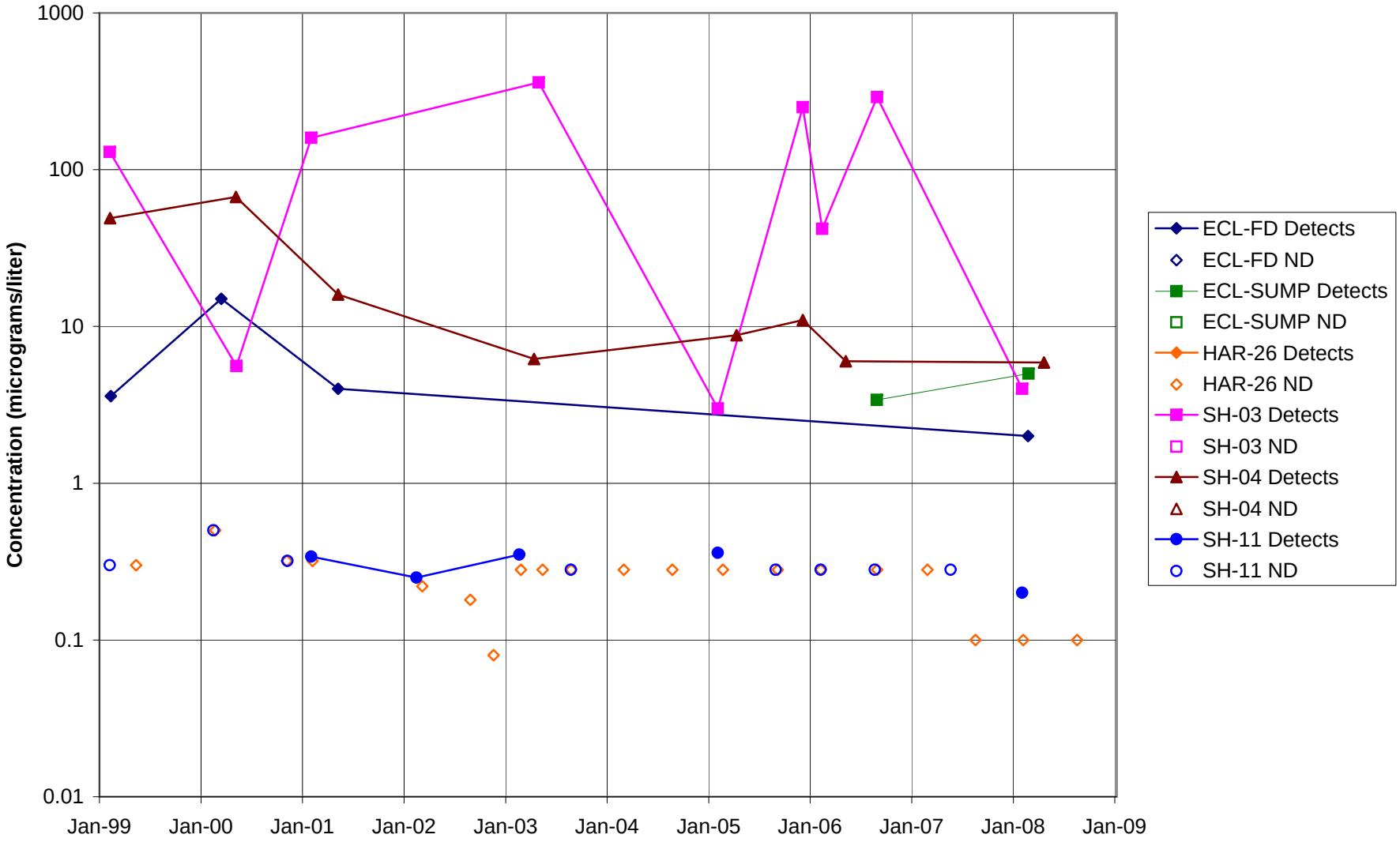


FIGURE F-78. 1,2-DCA in FORMER LOX PLANT AREA WELLS

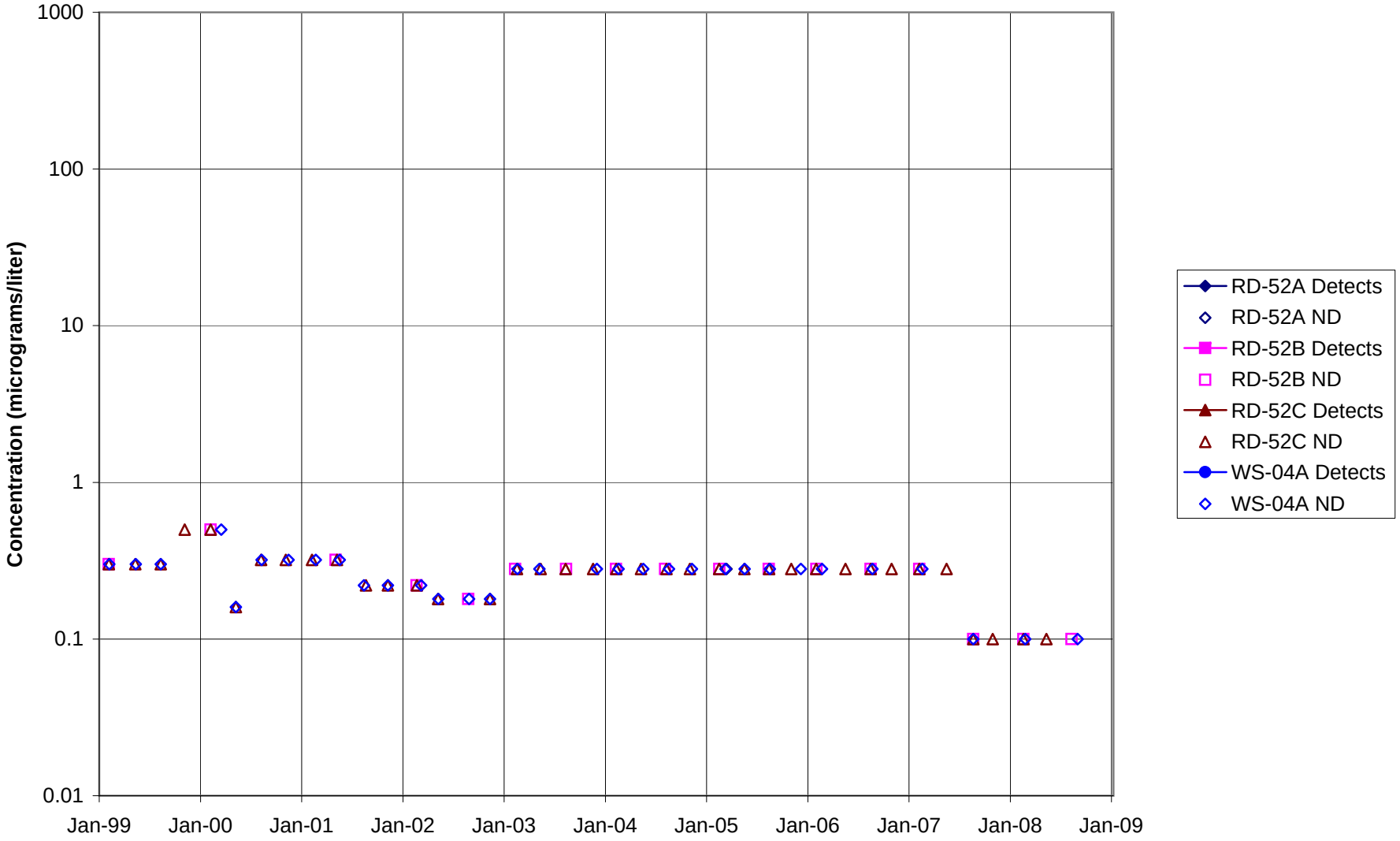


FIGURE F-79. 1,2-DCA in RD-09 AREA WELLS

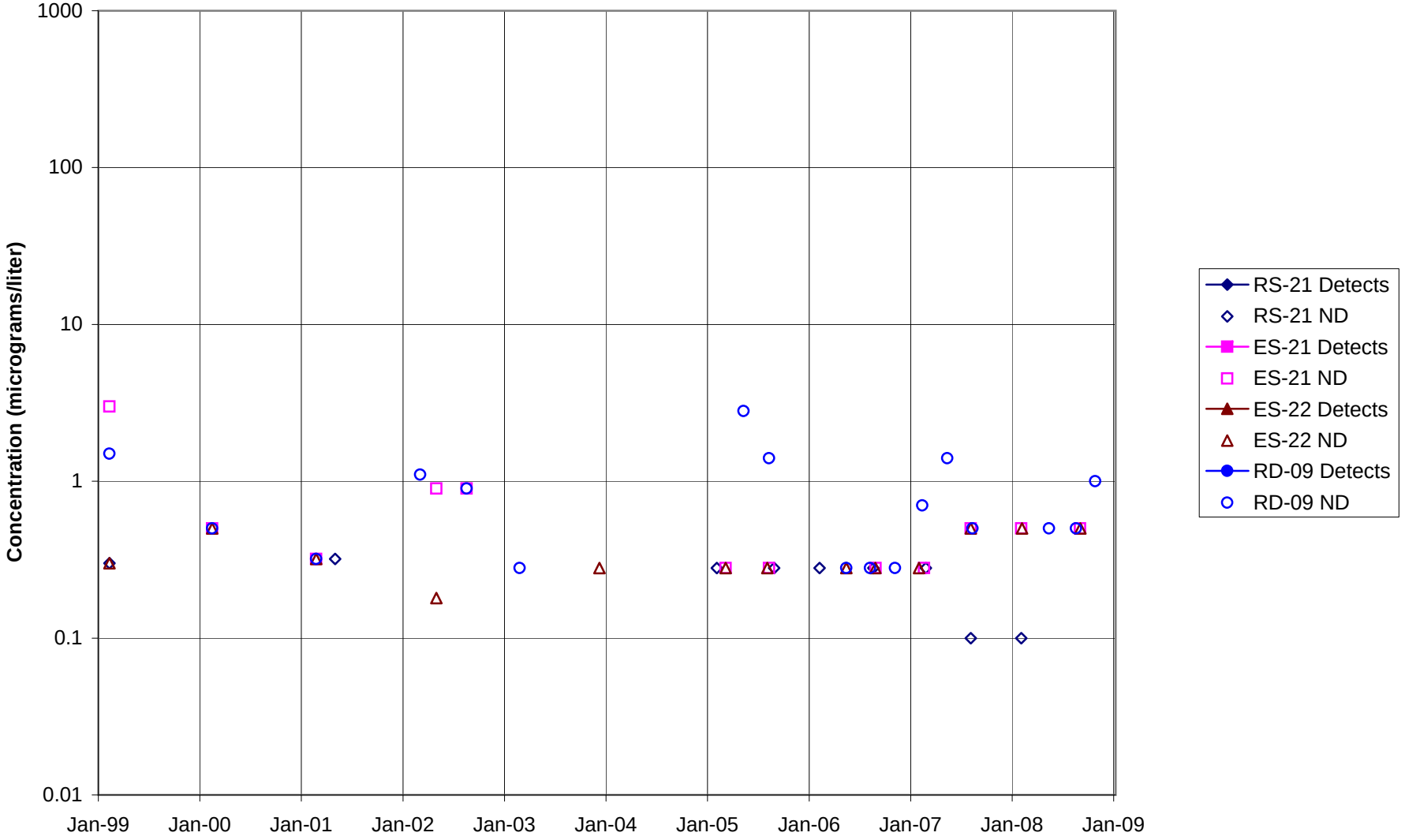


FIGURE F-80. 1,2-DCA in HELIPORT, B/204 AREA WELLS

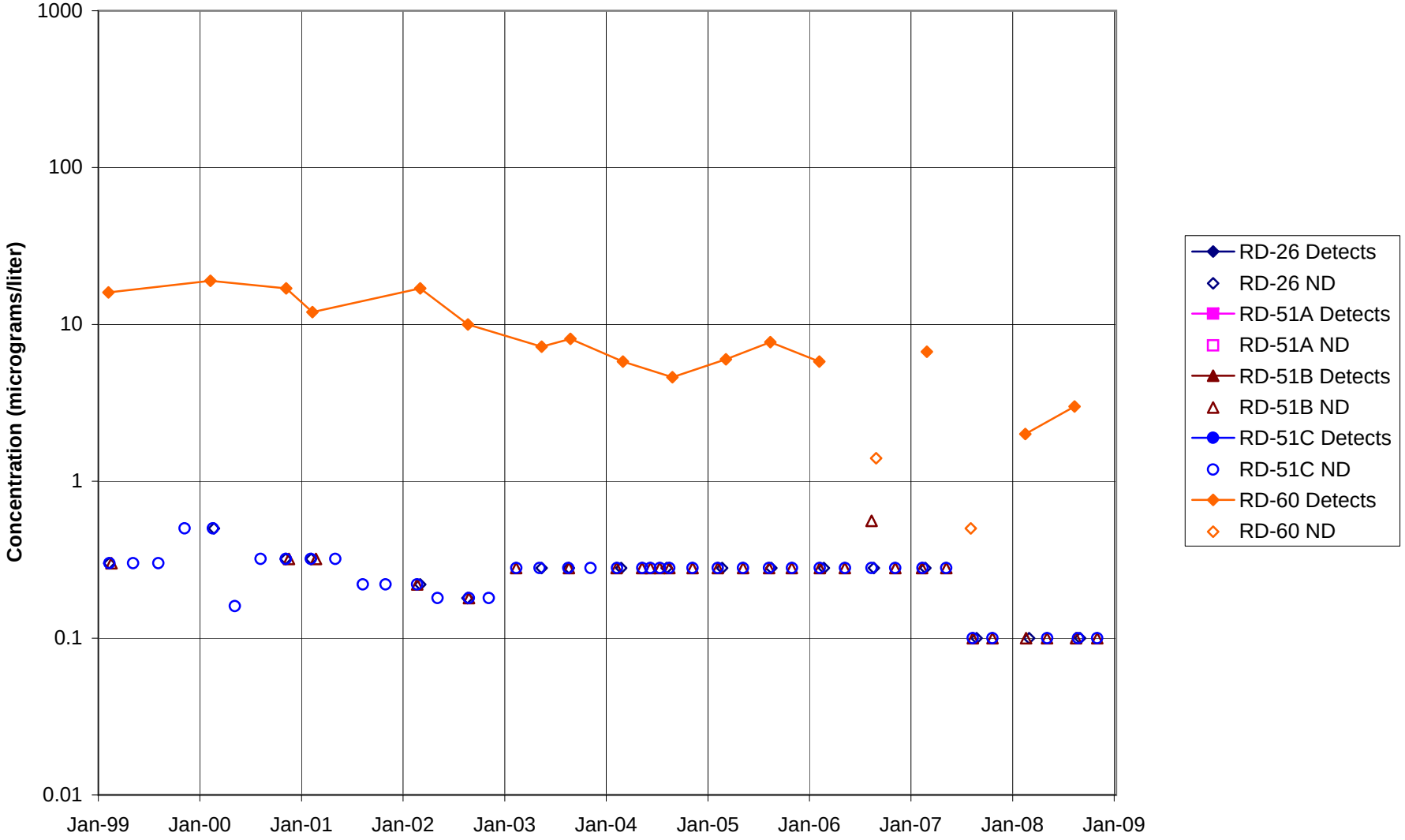


FIGURE F-81. 1,2-DCA in ALFA / BRAVO AREA WELLS

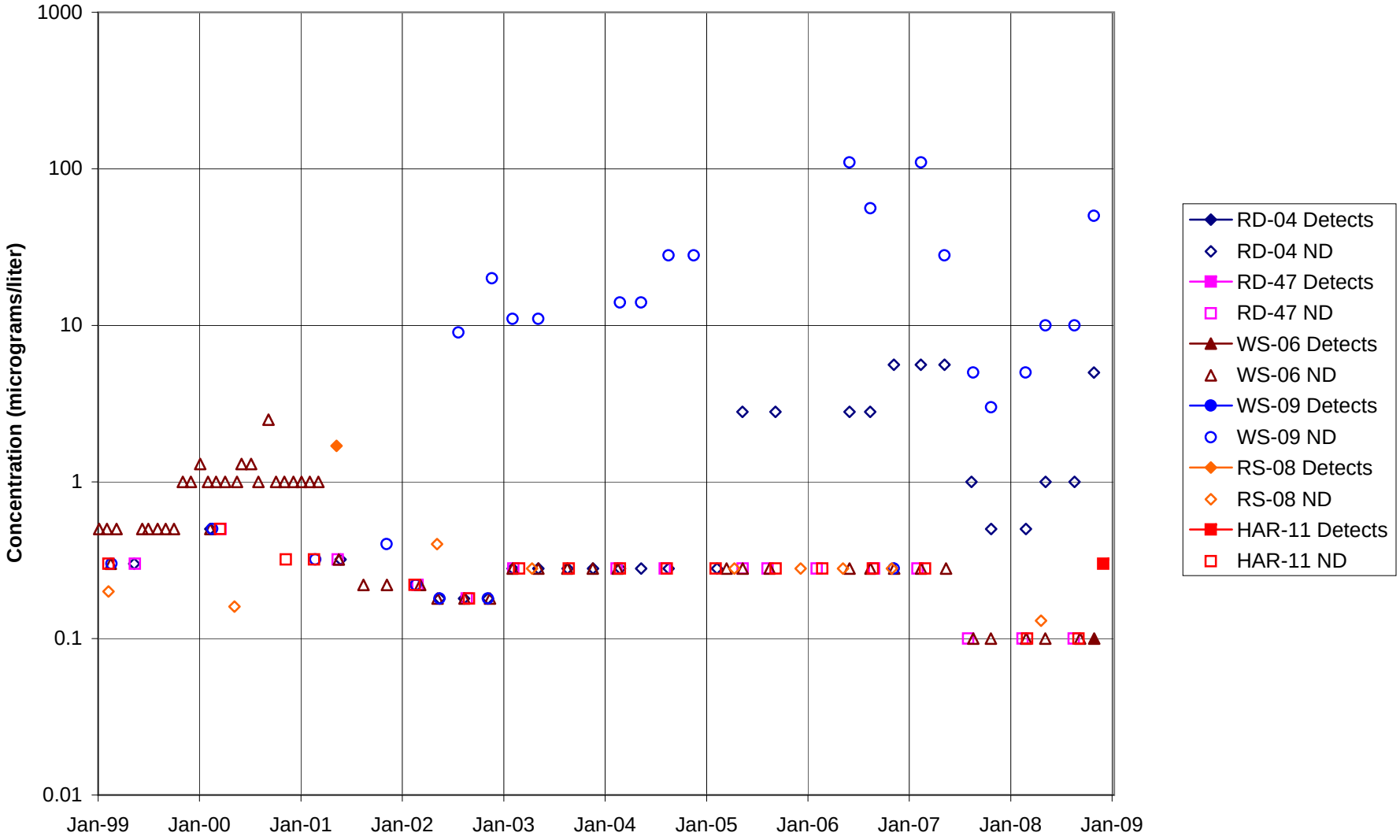


FIGURE F-82. 1,2-DCA in SPA AREA WELLS

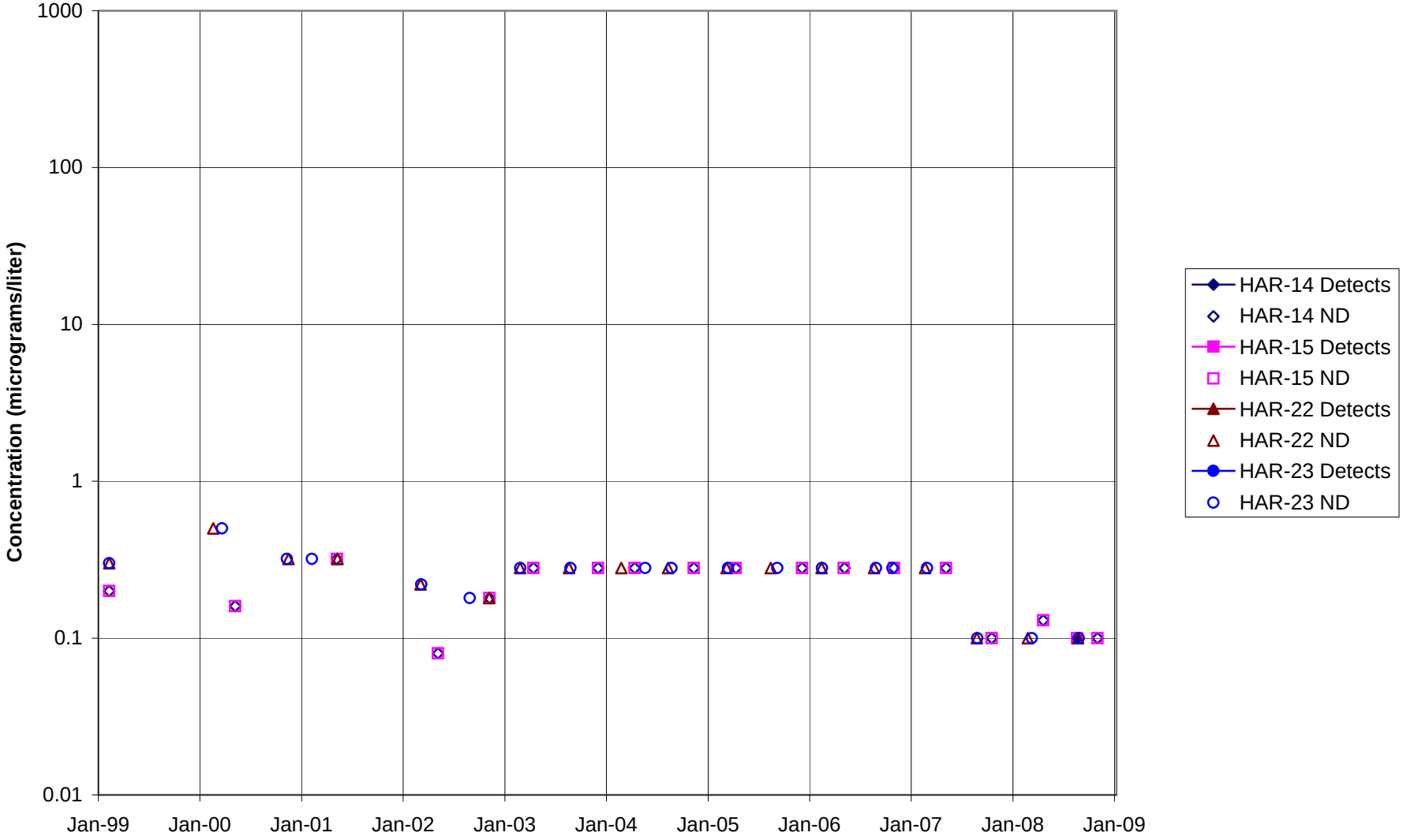


FIGURE F-83. 1,2-DCA in COCA / PLF AREA WELLS

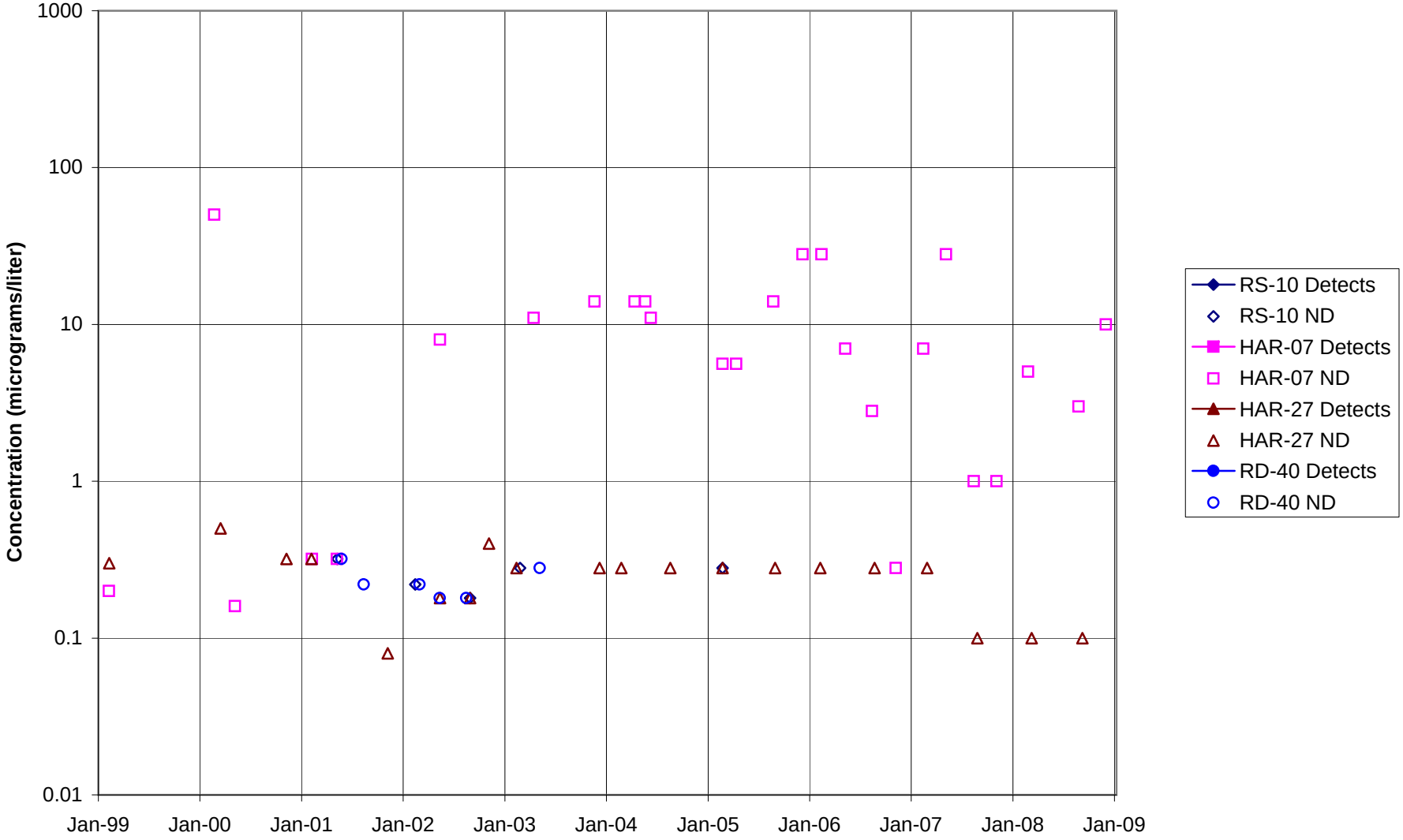


FIGURE F-84. 1,2-DCA in DELTA / BUFFER ZONE AREA WELLS

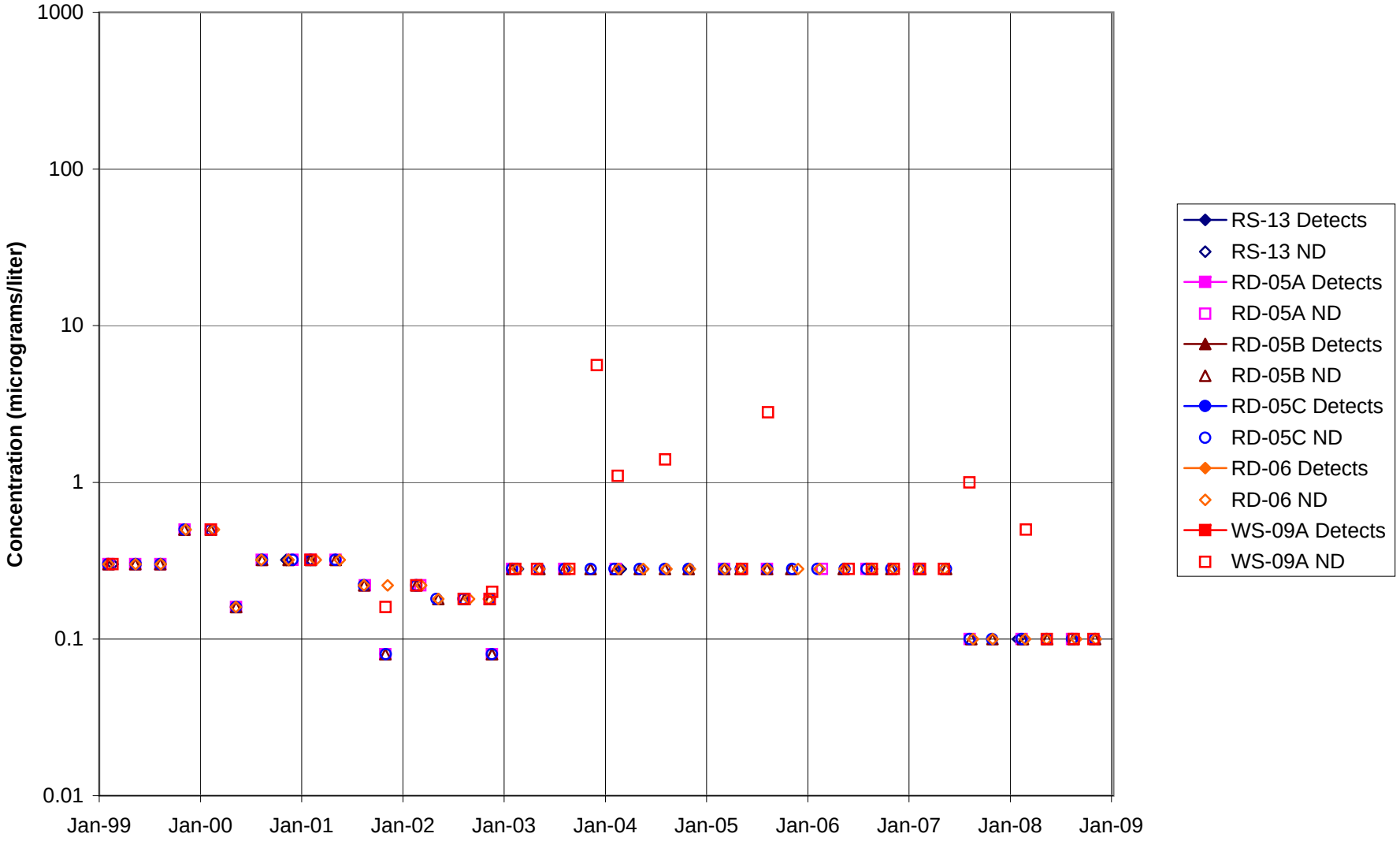


FIGURE F-85. 1,2-DCA in AREA IV WELLS

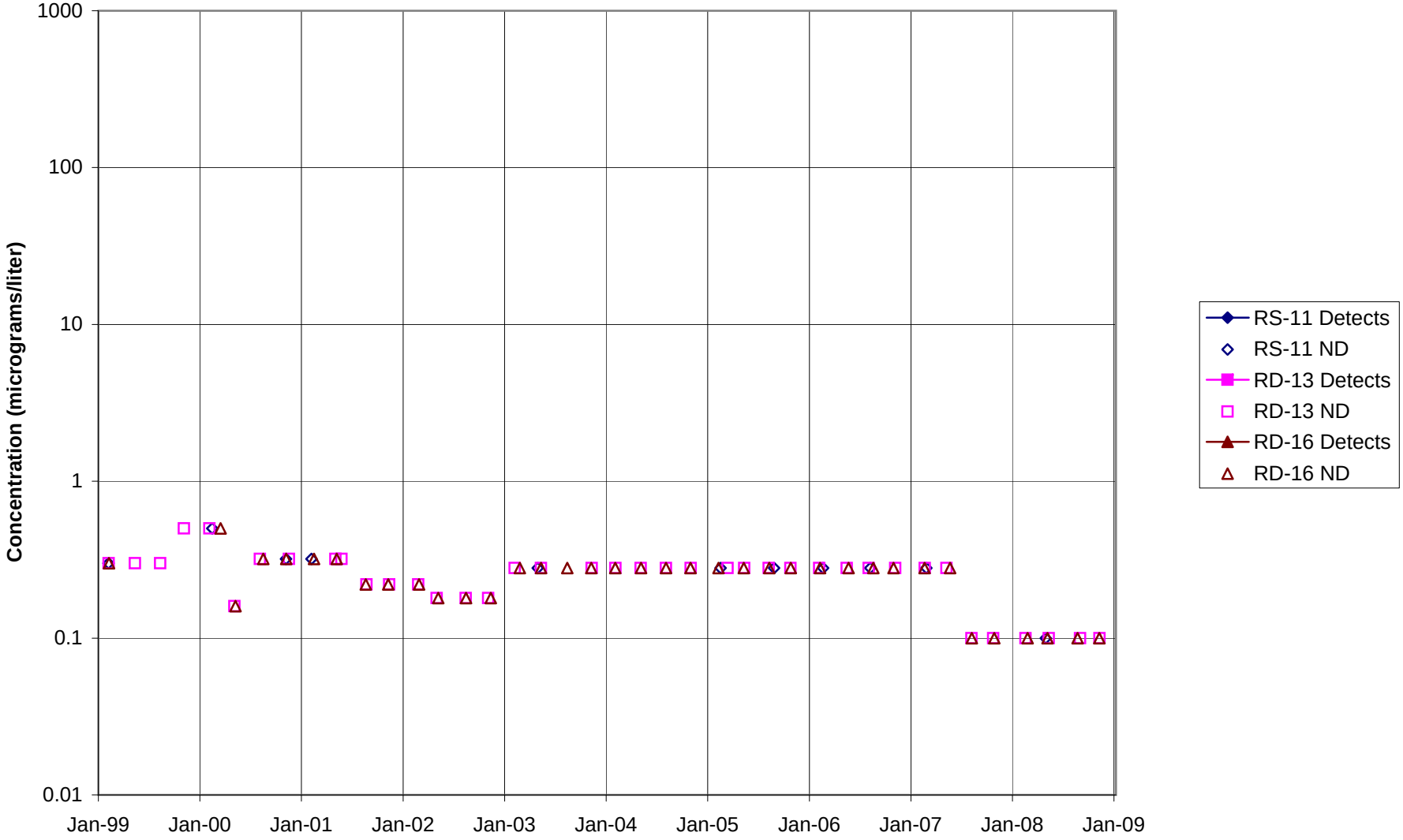


FIGURE F-86. 1,4-DIOXANE in STL-IV AREA SHALLOW WELLS

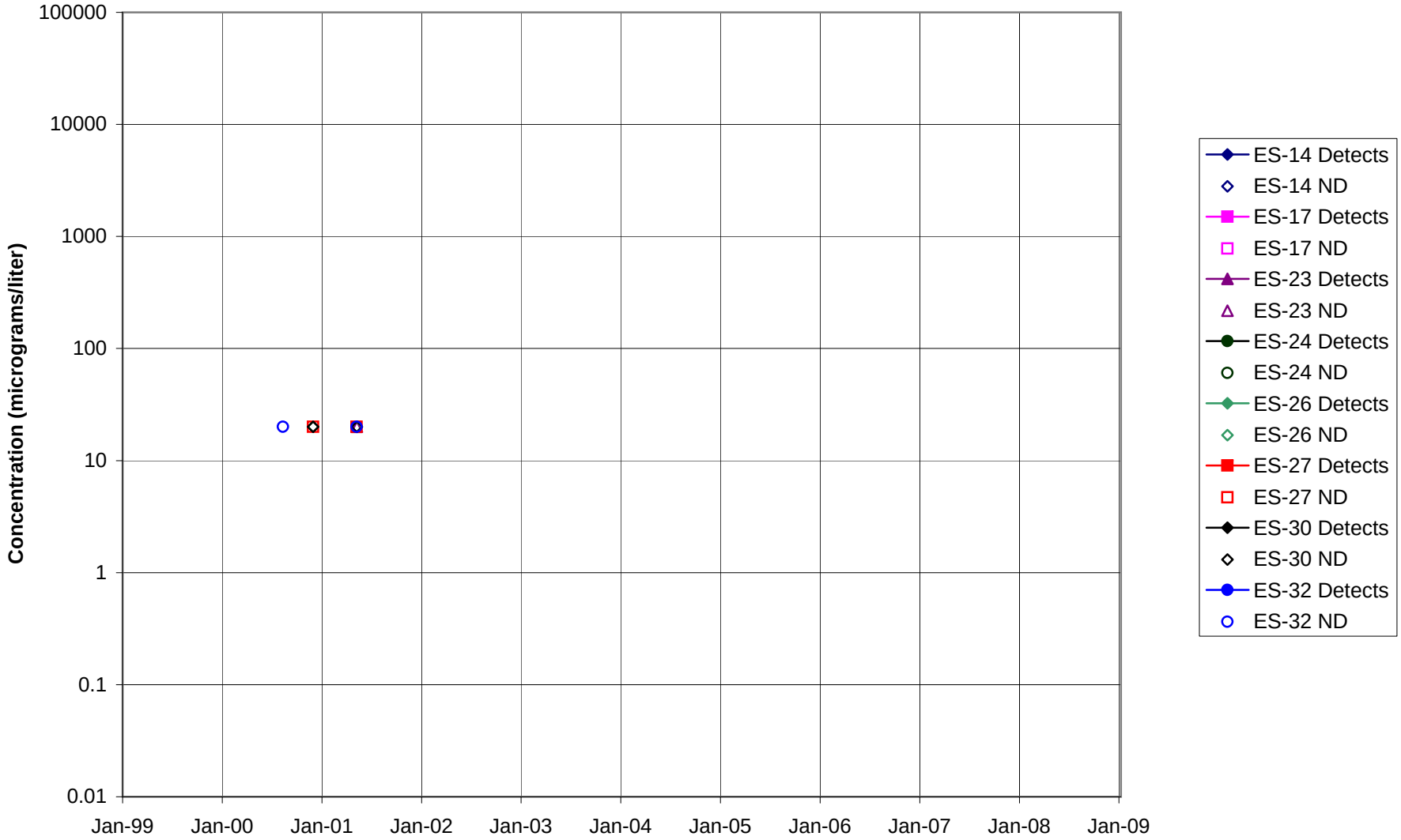


FIGURE F-87. 1,4-DIOXANE in STL-IV AREA CHATSWORTH FORMATION WELLS

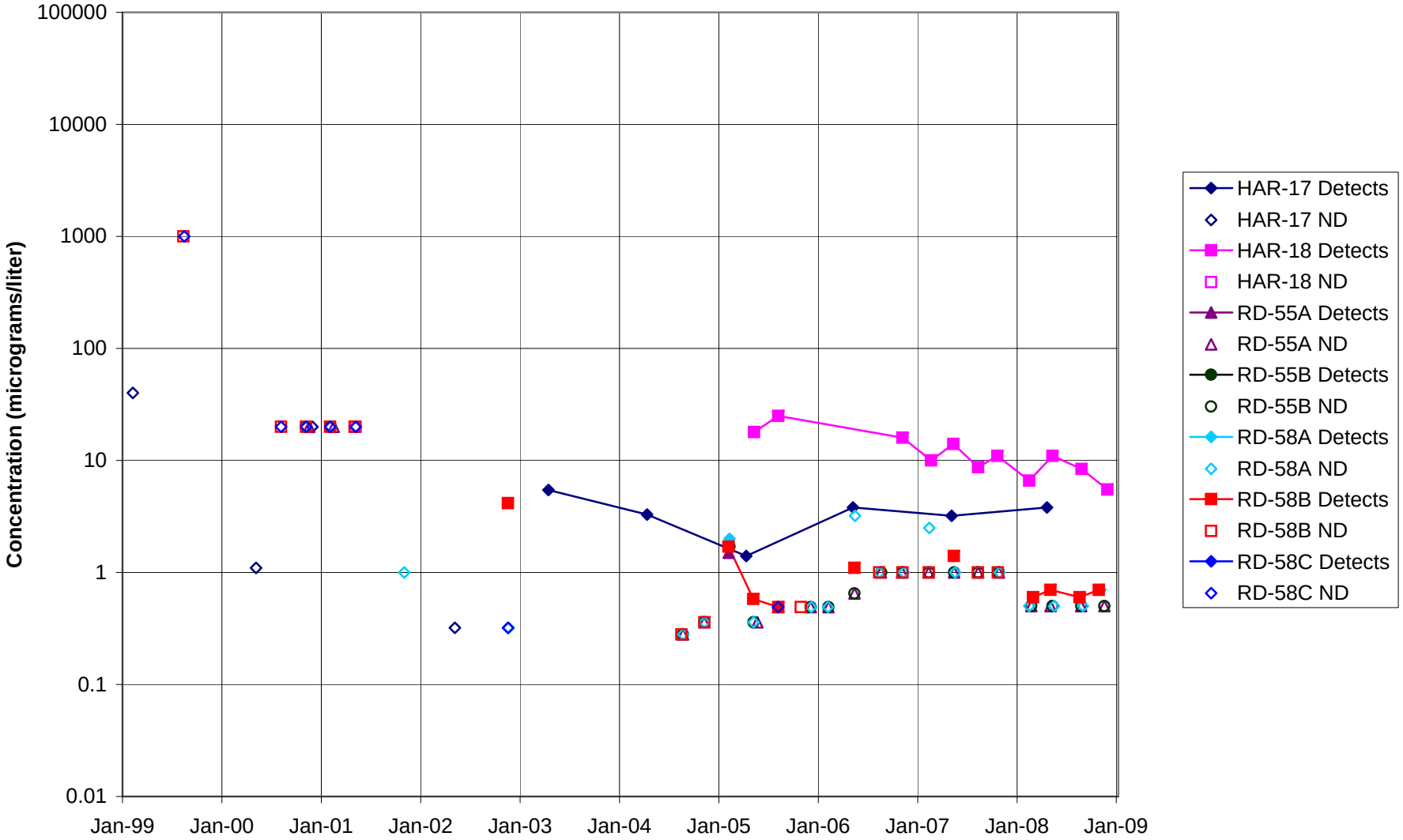


FIGURE F-88. 1,4-DIOXANE in MAIN GATE AREA WELLS - 1

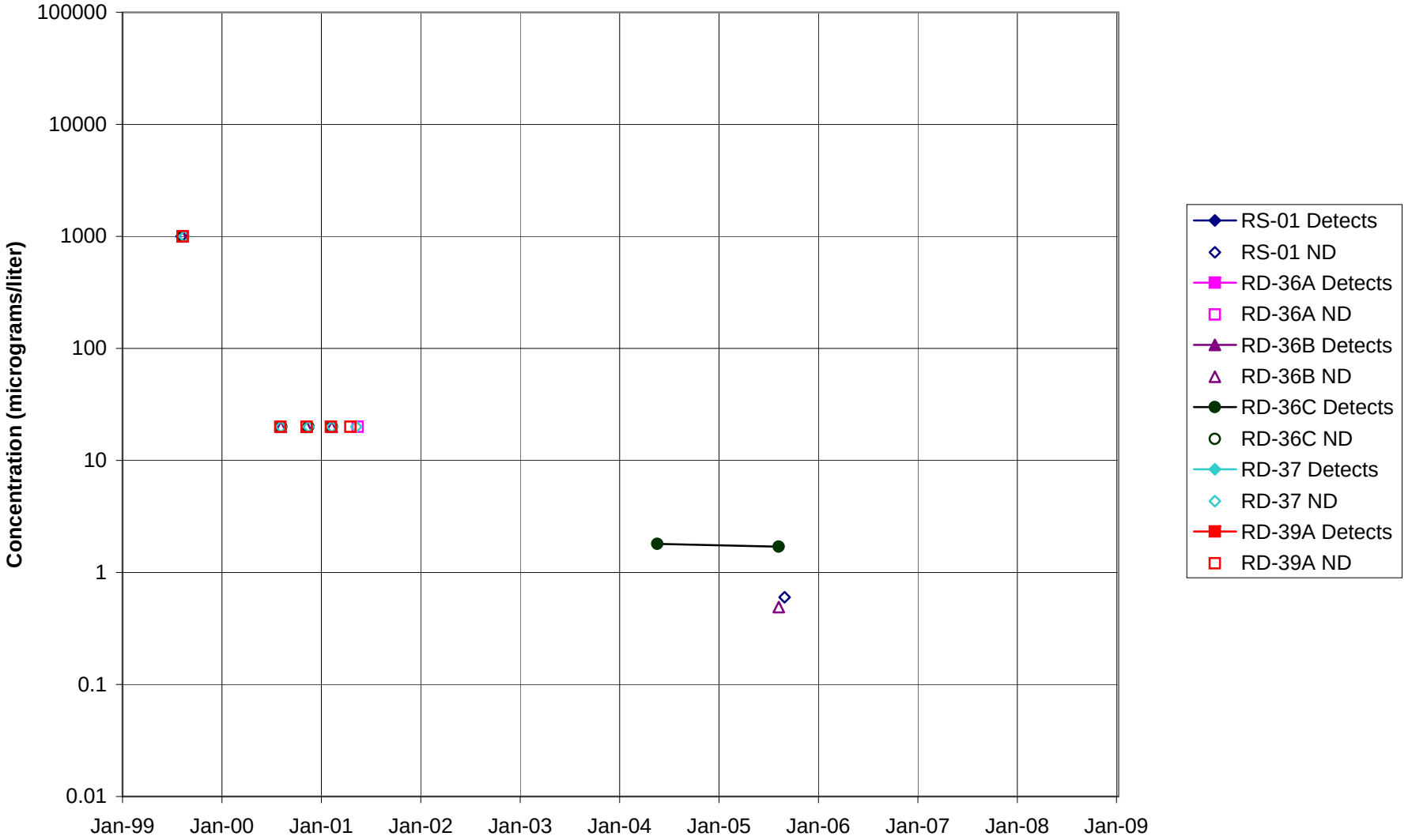


FIGURE F-89. 1,4-DIOXANE in MAIN GATE AREA WELLS - 2

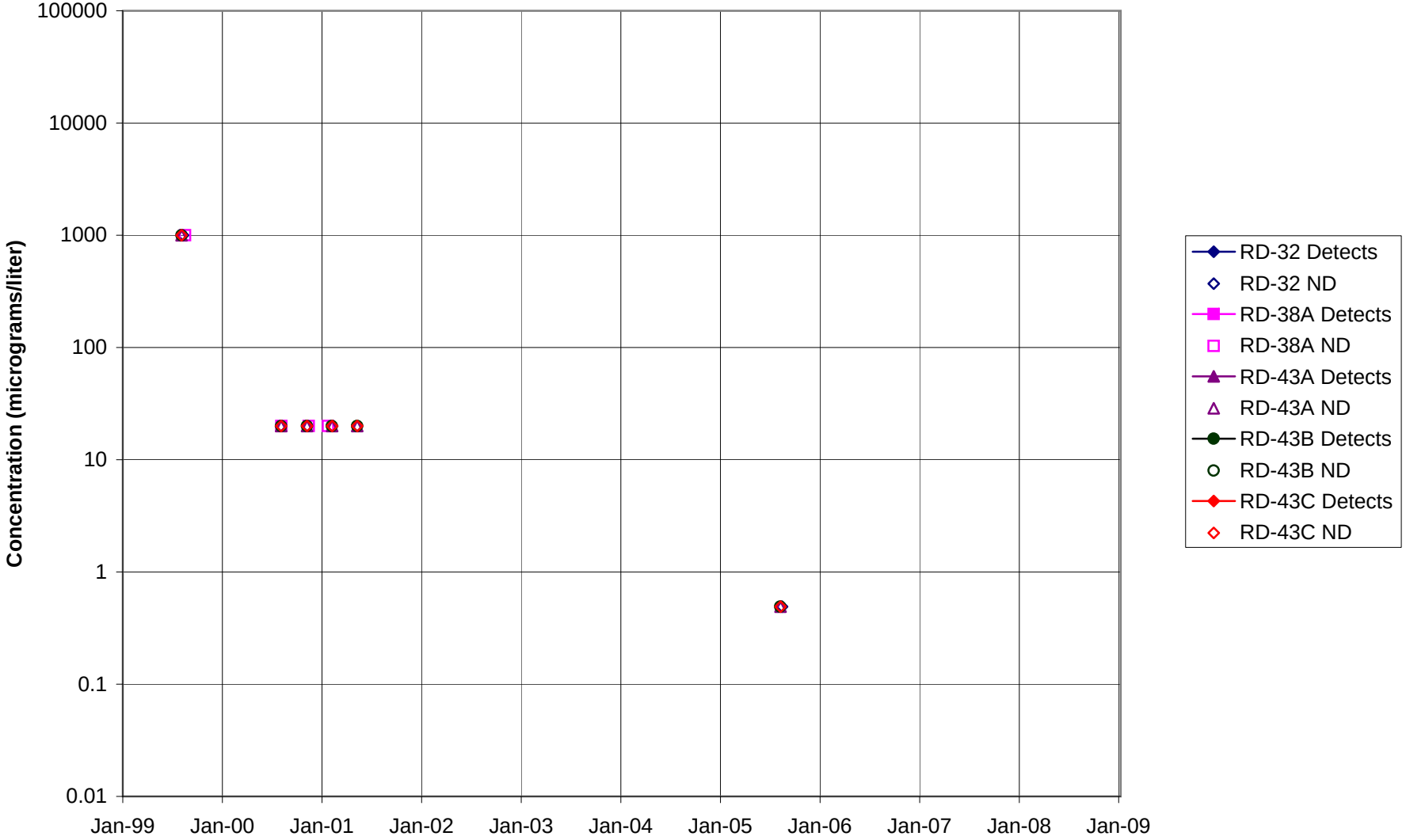


FIGURE F-90. 1,4-DIOXANE in APTF, CANYON & HAPPY VALLEY AREA WELLS - 1

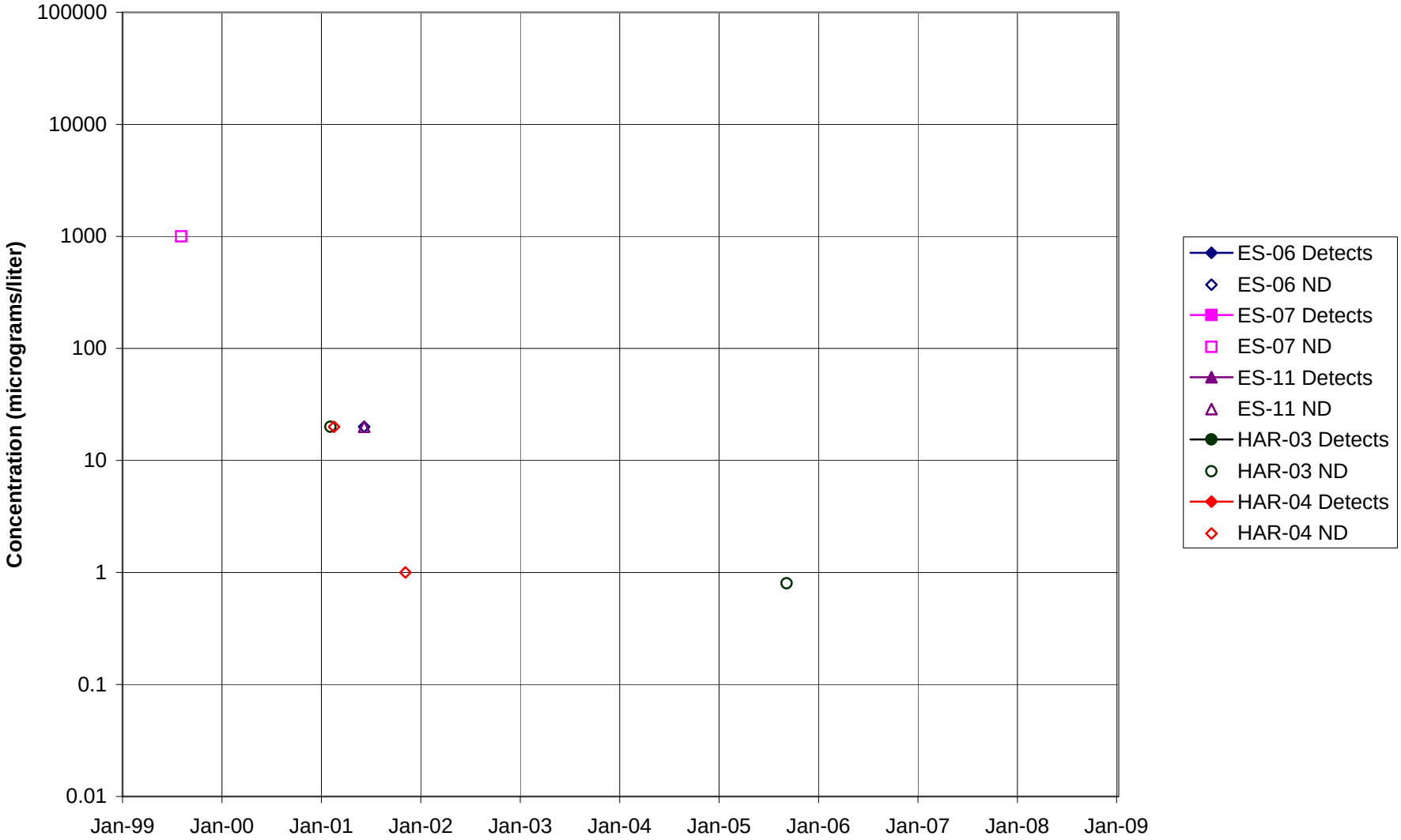


FIGURE F-91. 1,4-DIOXANE in APTF, CANYON & HAPPY VALLEY AREA WELLS - 2

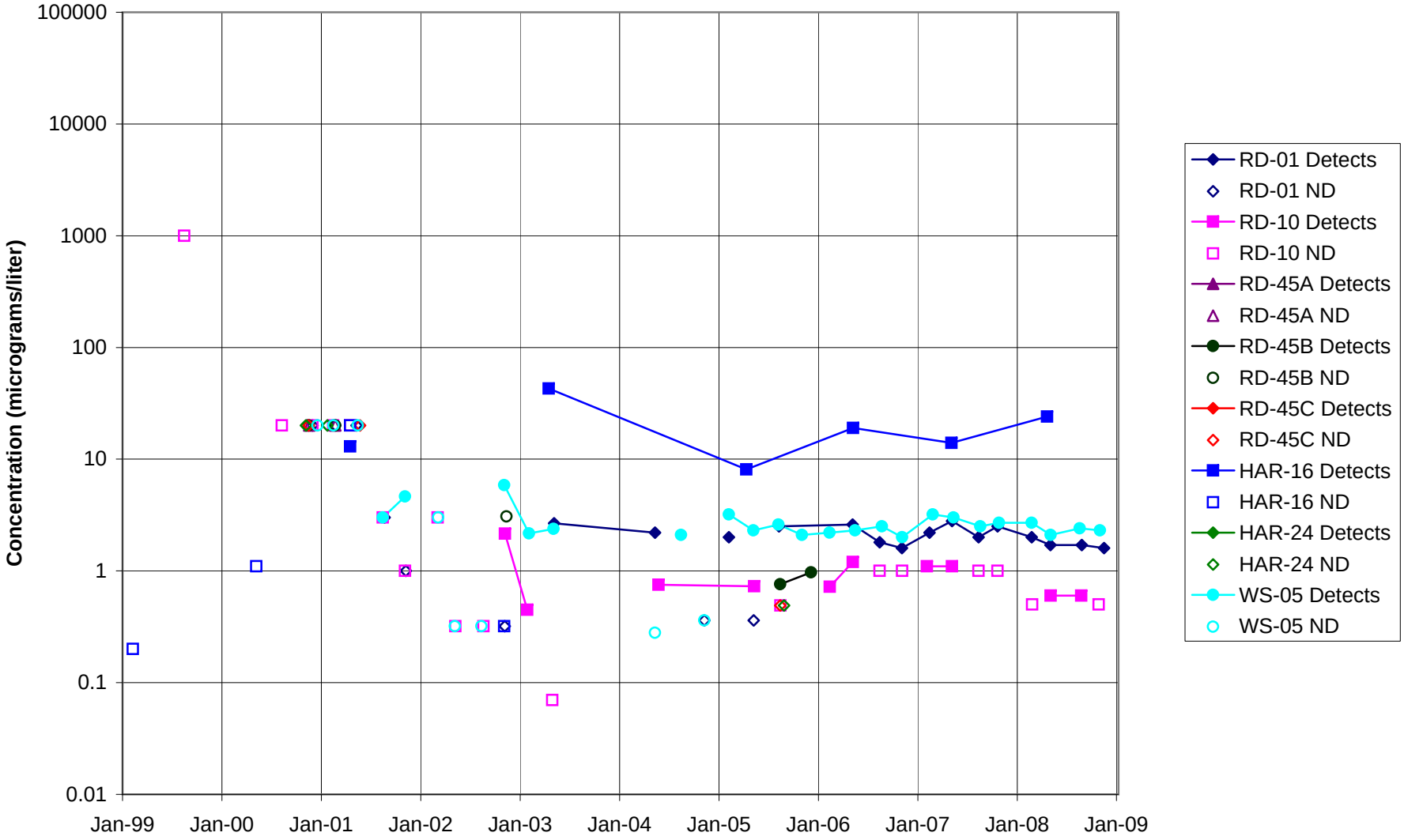


FIGURE F-92. 1,4-DIOXANE in CTL-III / PERIMETER POND AREA WELLS

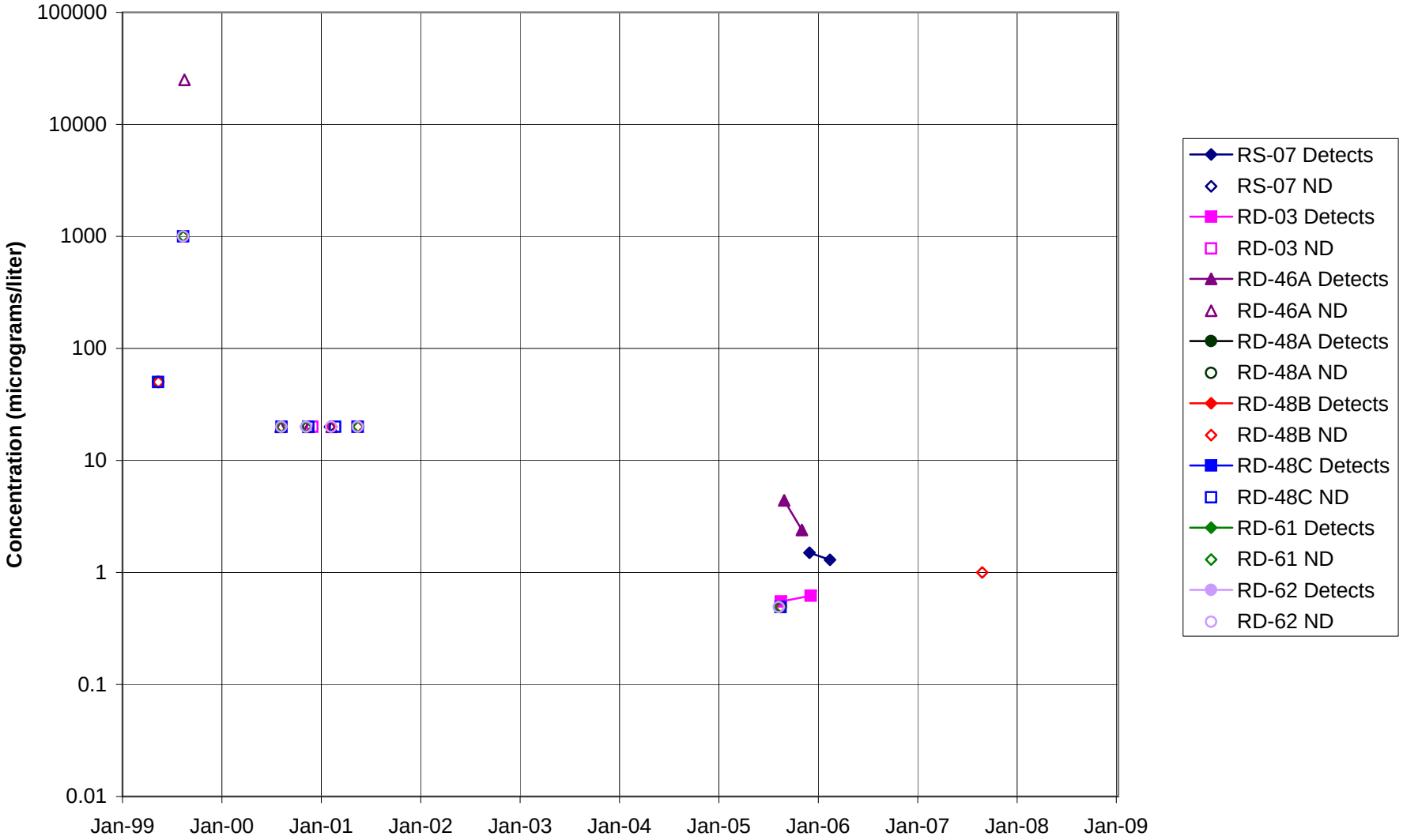


FIGURE F-93. 1,4-DIOXANE in BOWL AREA WELLS

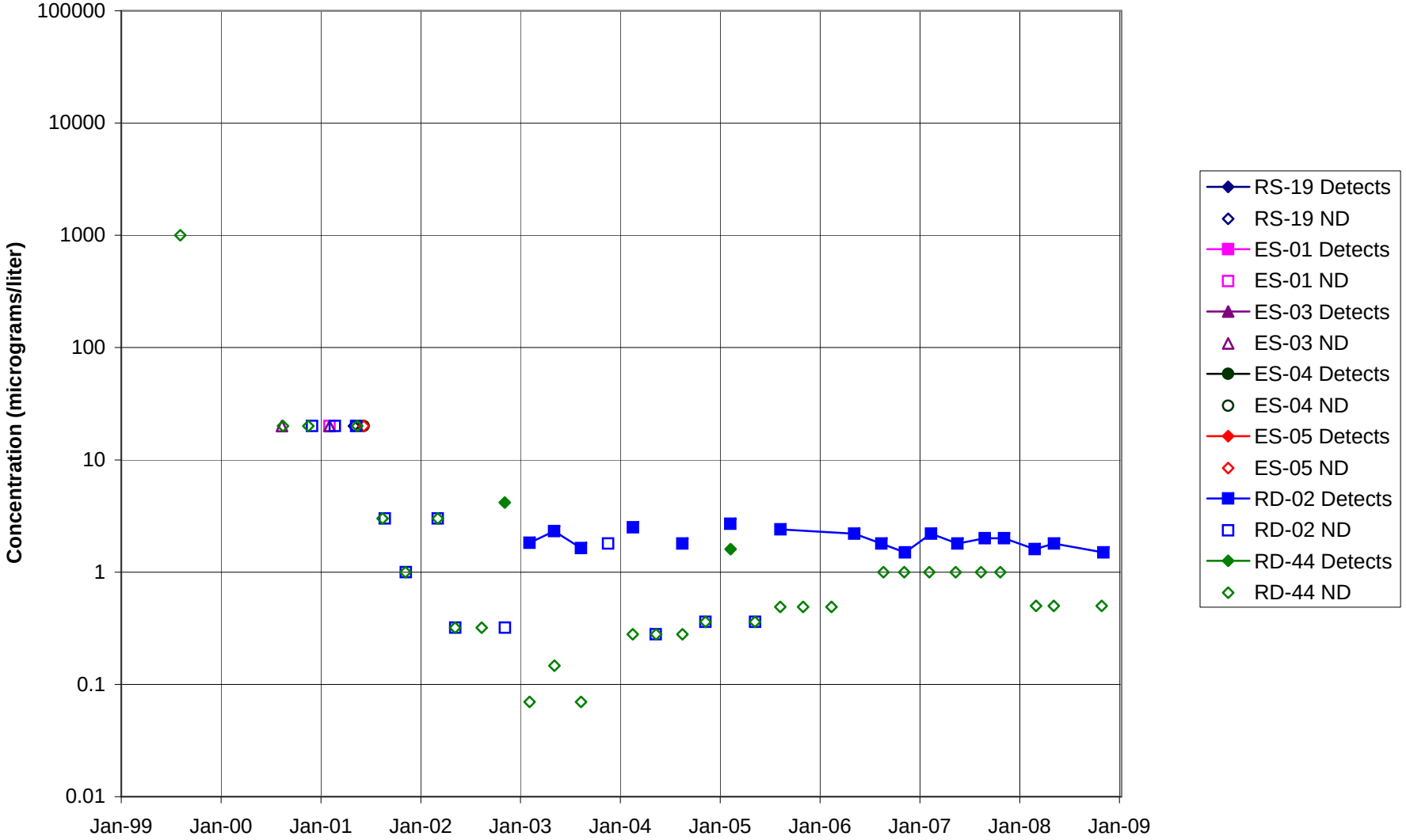
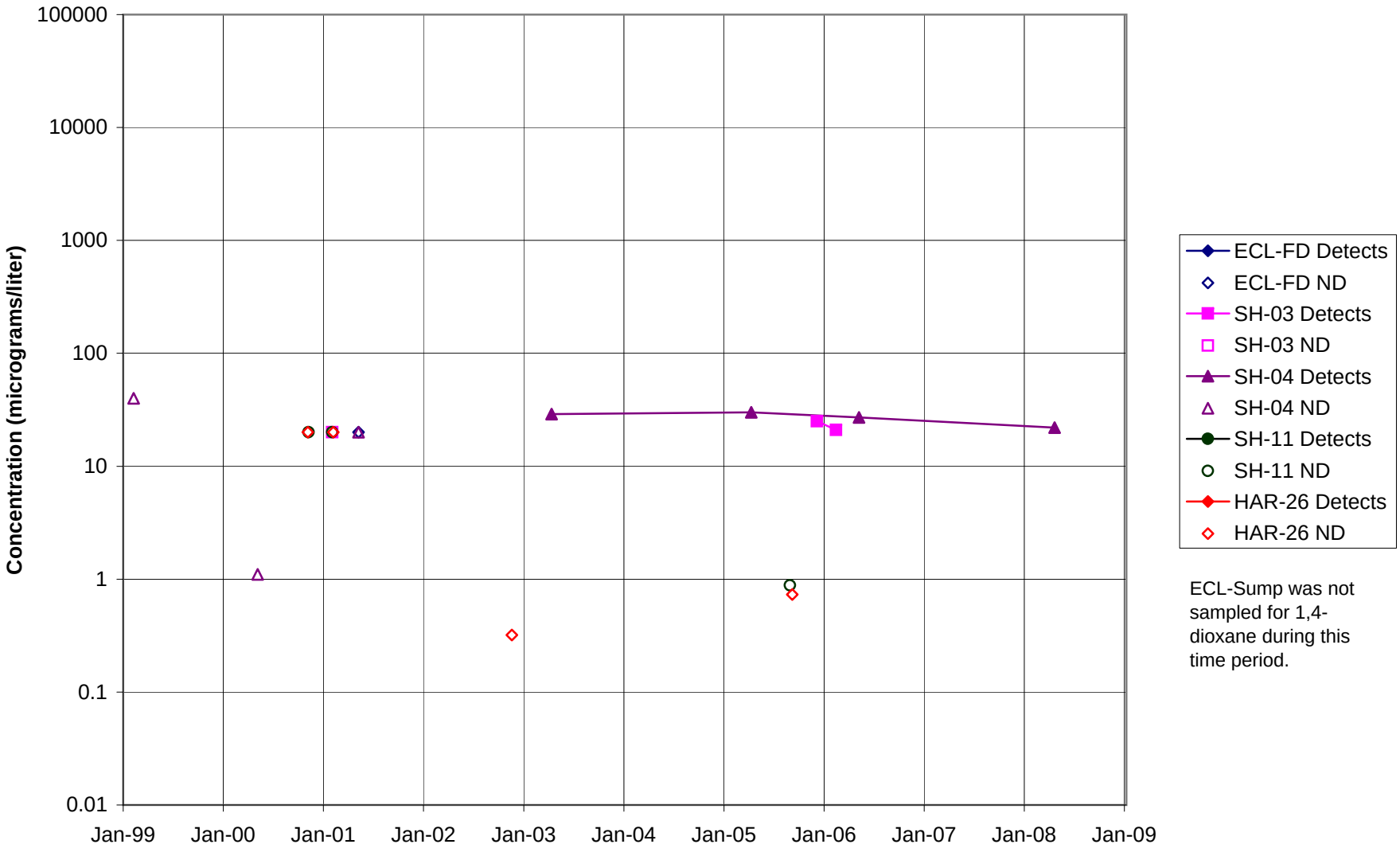


FIGURE F-94. 1,4-DIOXANE in ECL AREA WELLS



ECL-Sump was not sampled for 1,4-dioxane during this time period.

FIGURE F-95. 1,4-DIOXANE IN FORMER LOX PLANT AREA WELLS

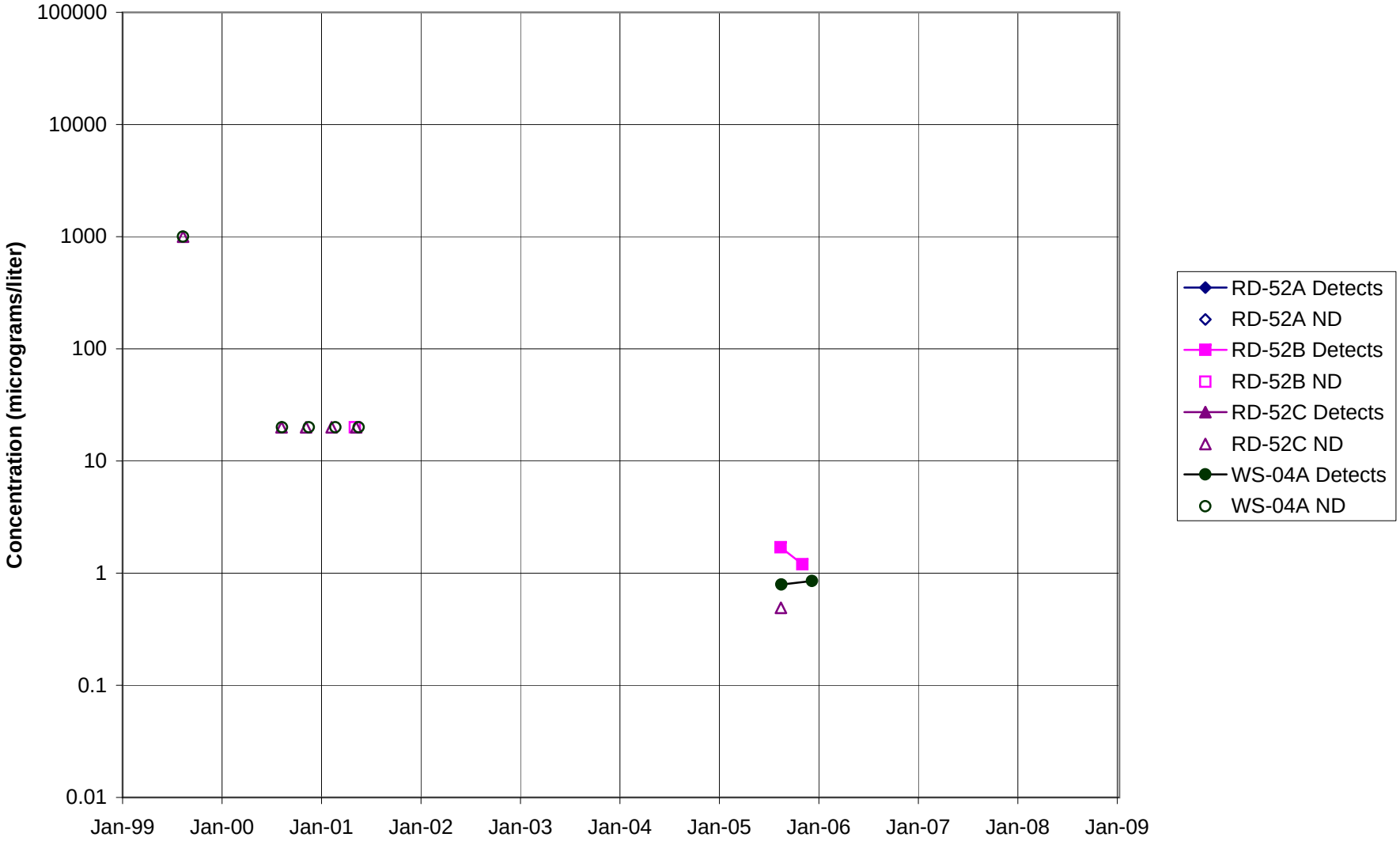


FIGURE F-96. 1,4-DIOXANE in RD-09 AREA WELLS

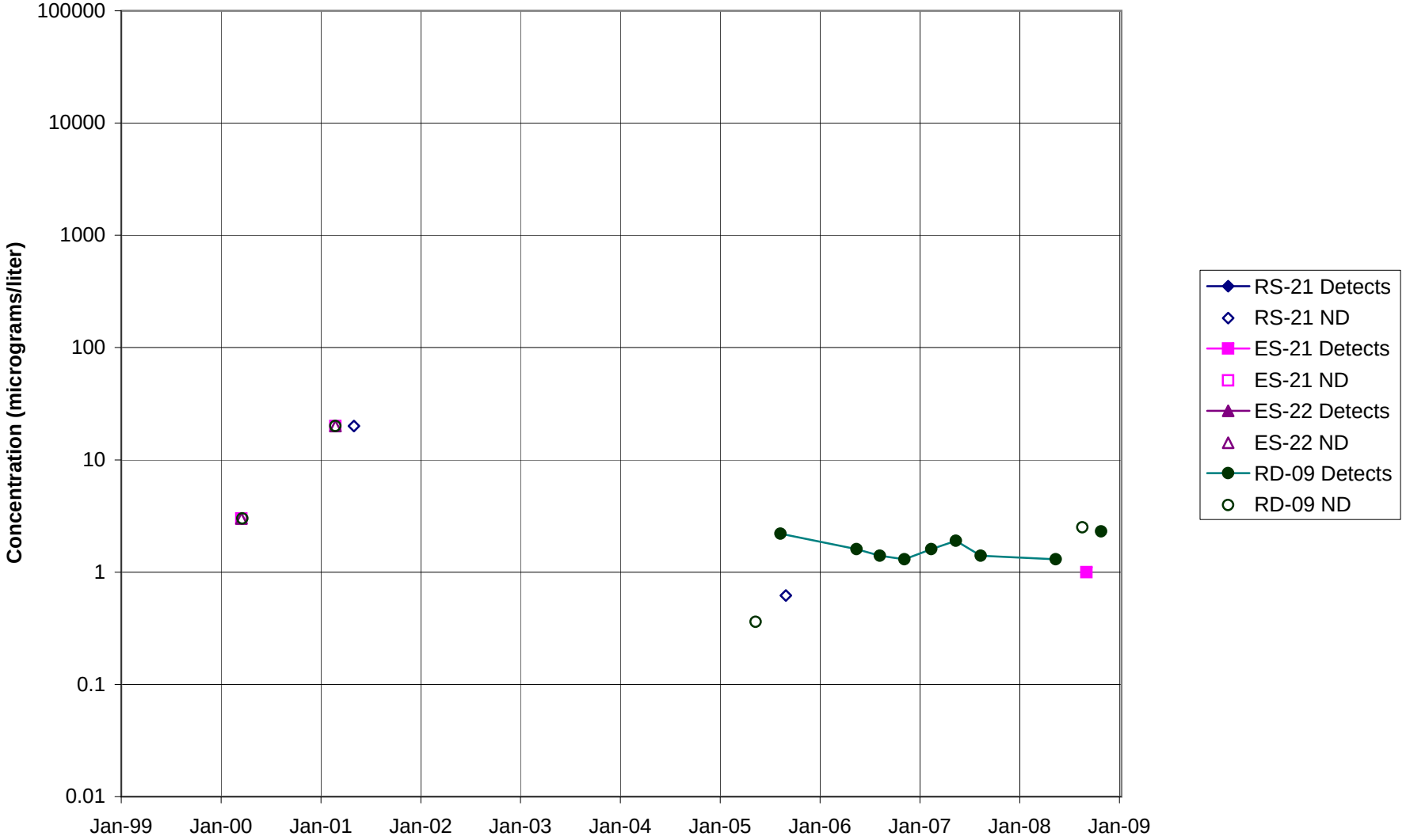
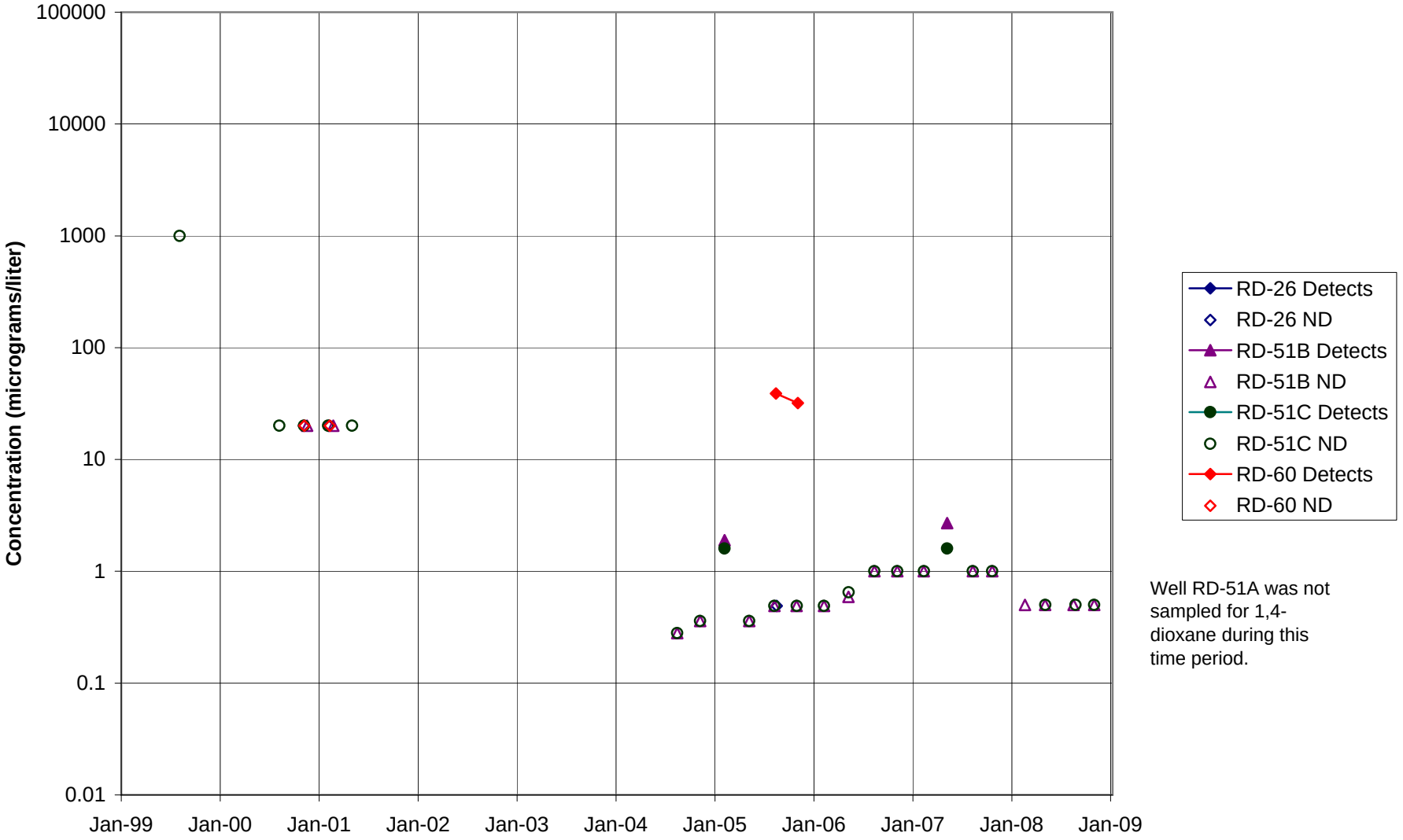


FIGURE F-97. 1,4-DIOXANE IN THE HELIPORT, B/204 AREA WELLS



Well RD-51A was not sampled for 1,4-dioxane during this time period.

FIGURE F-98. 1,4-DIOXANE in ALFA / BRAVO AREA WELLS

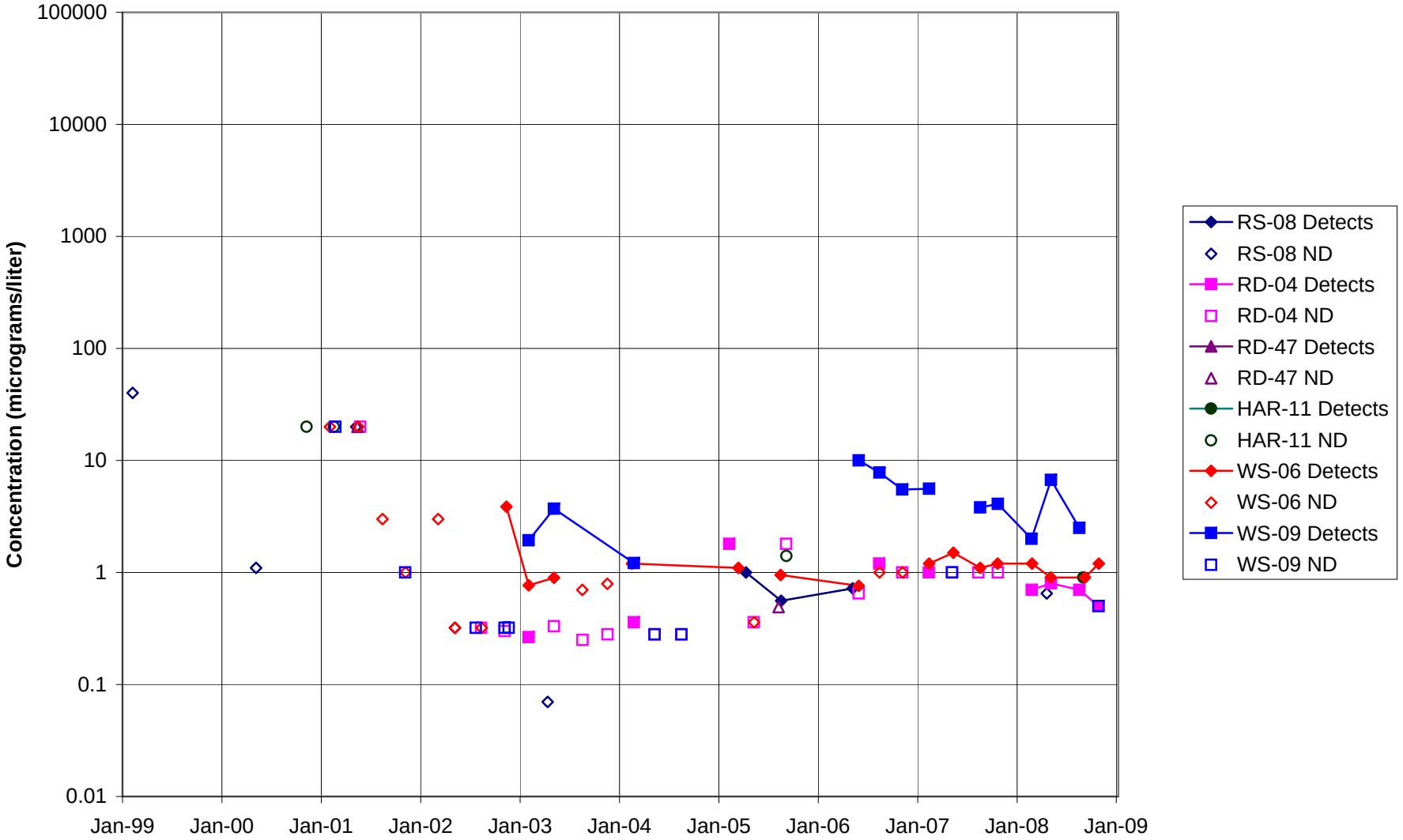


FIGURE F-99. 1,4-DIOXANE in SPA AREA WELLS

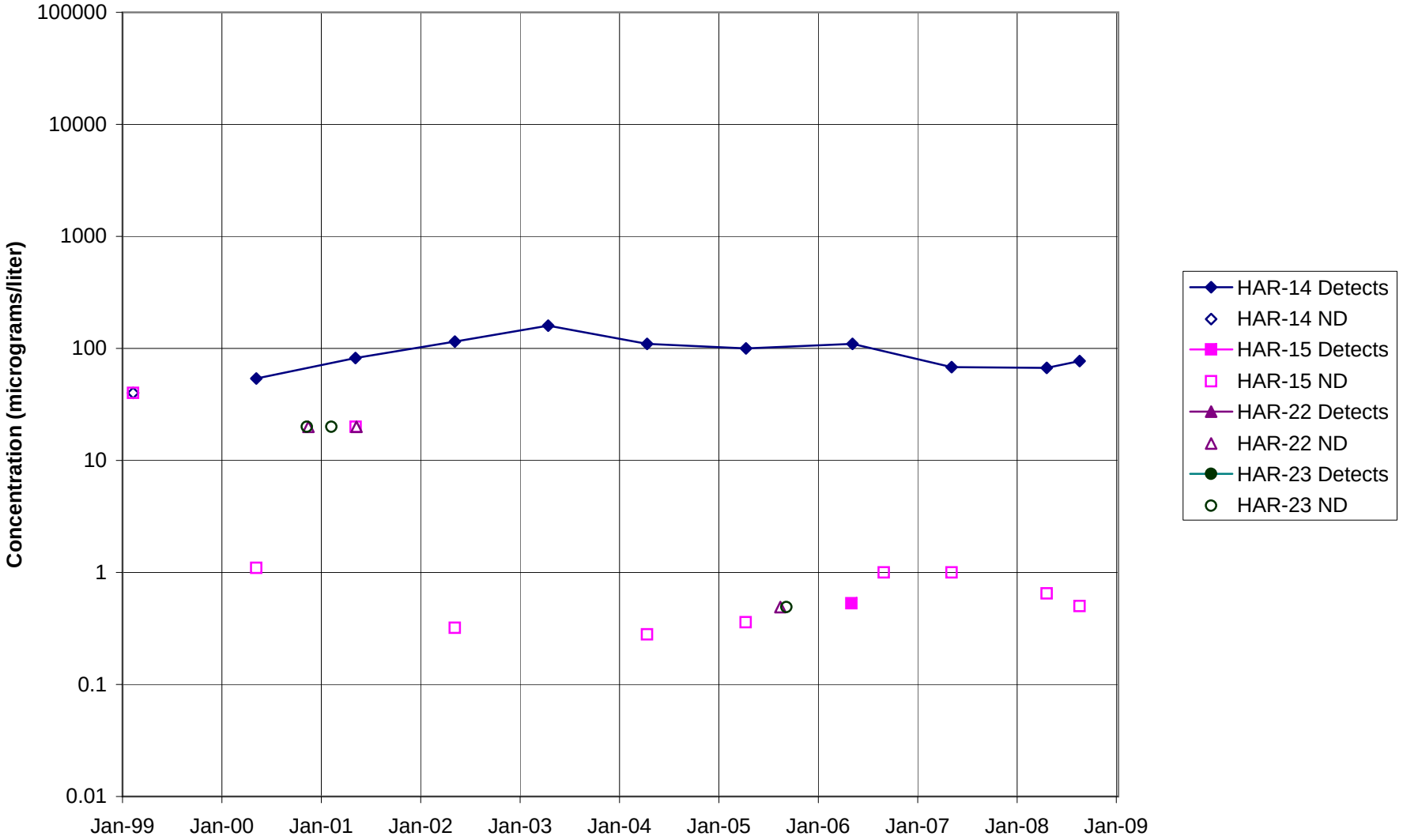


FIGURE F-100. 1,4-DIOXANE IN COCA / PLF AREA WELLS

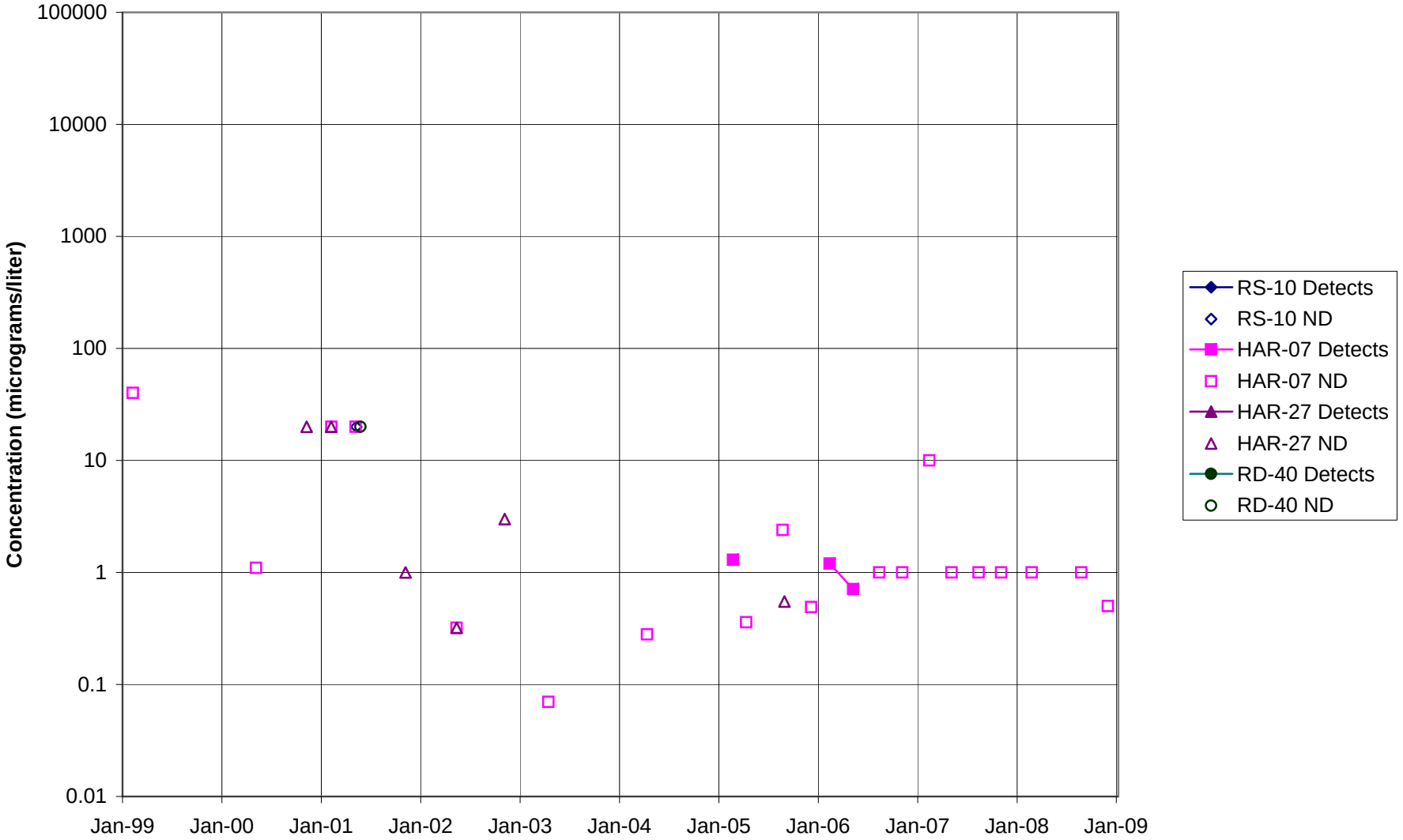


FIGURE F-101. 1,4-DIOXANE in DELTA / BUFFER ZONE AREA WELLS

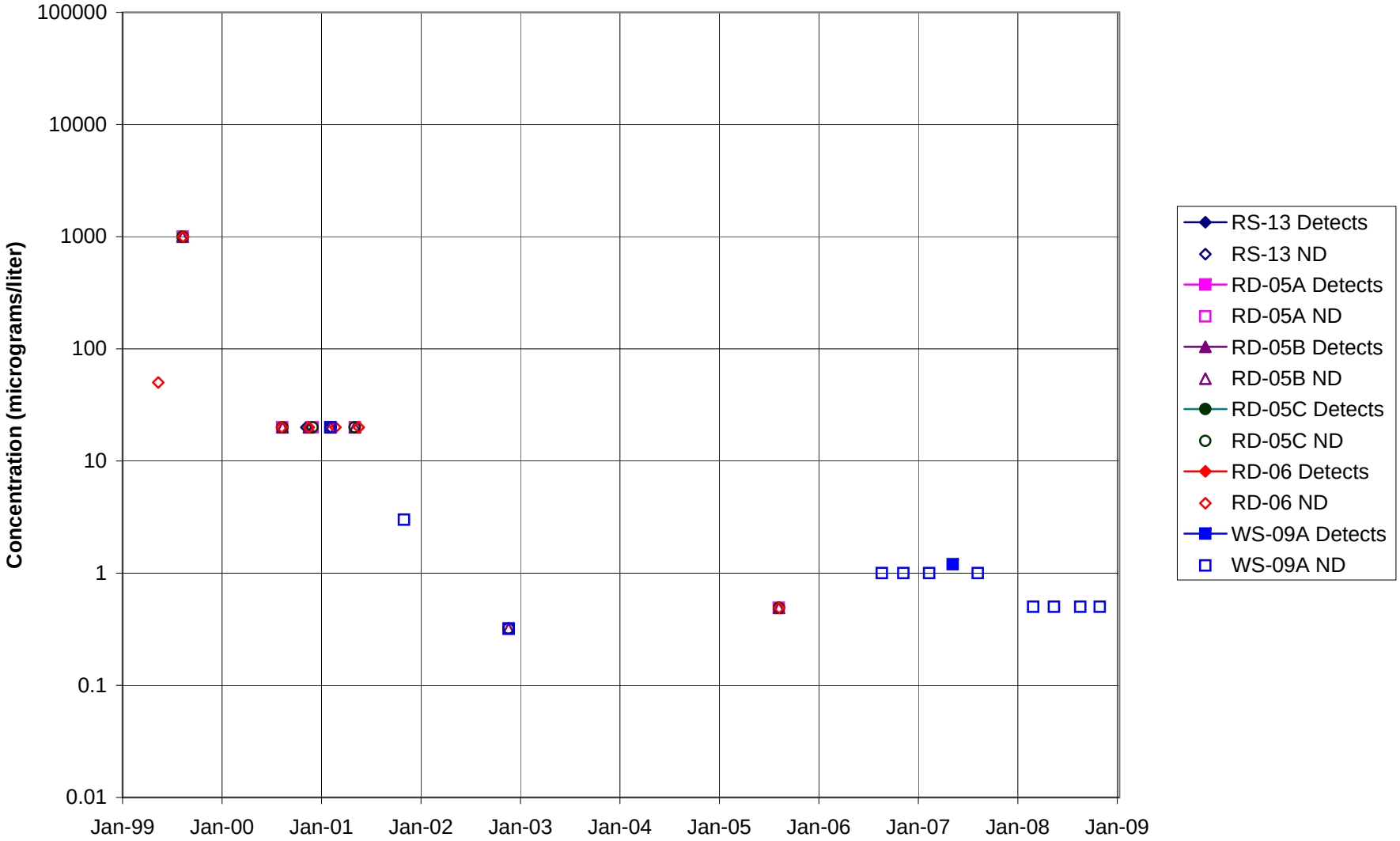


FIGURE F-102. 1,4-DIOXANE IN AREA IV WELLS

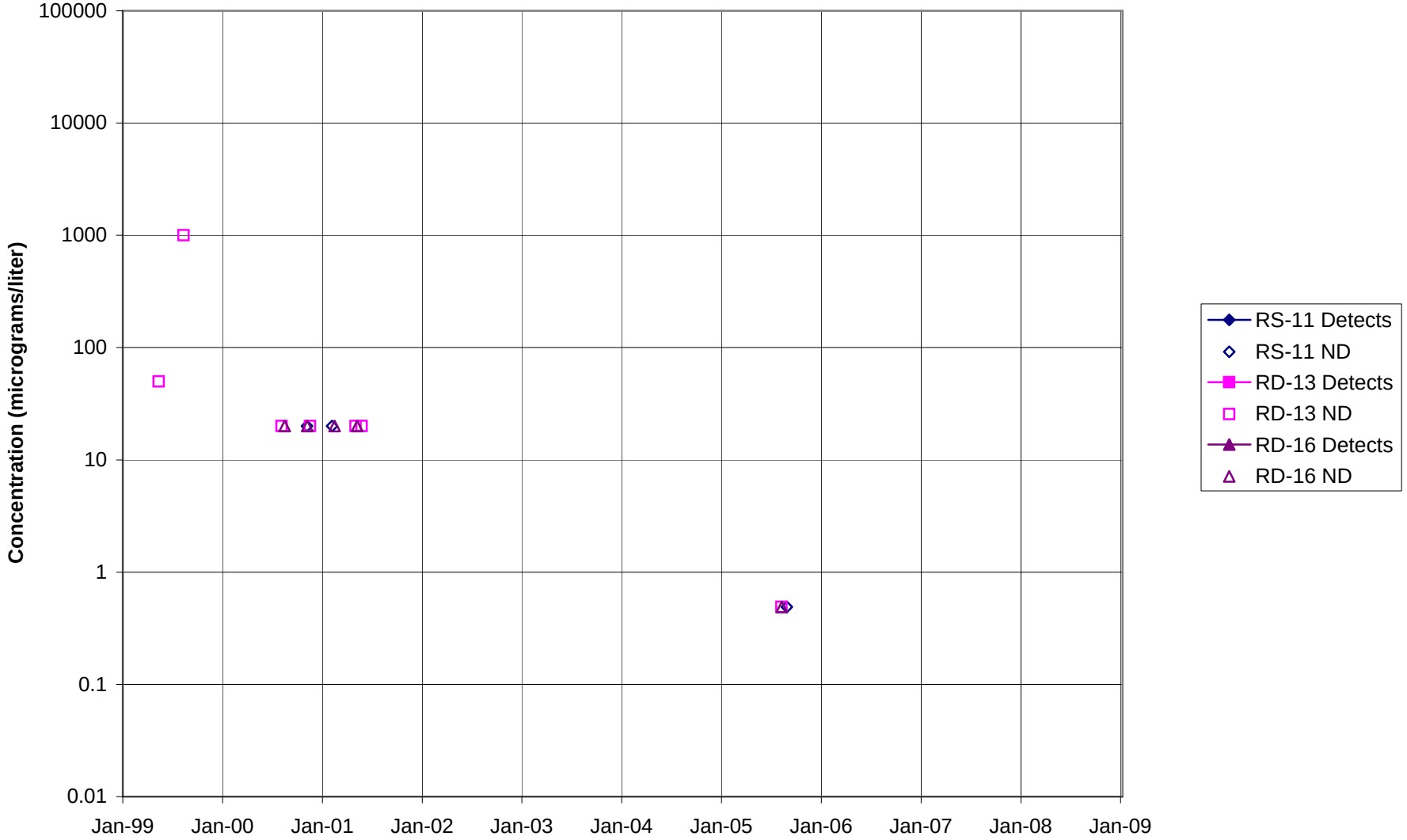


FIGURE F-103. BENZENE in STL-IV AREA SHALLOW WELLS

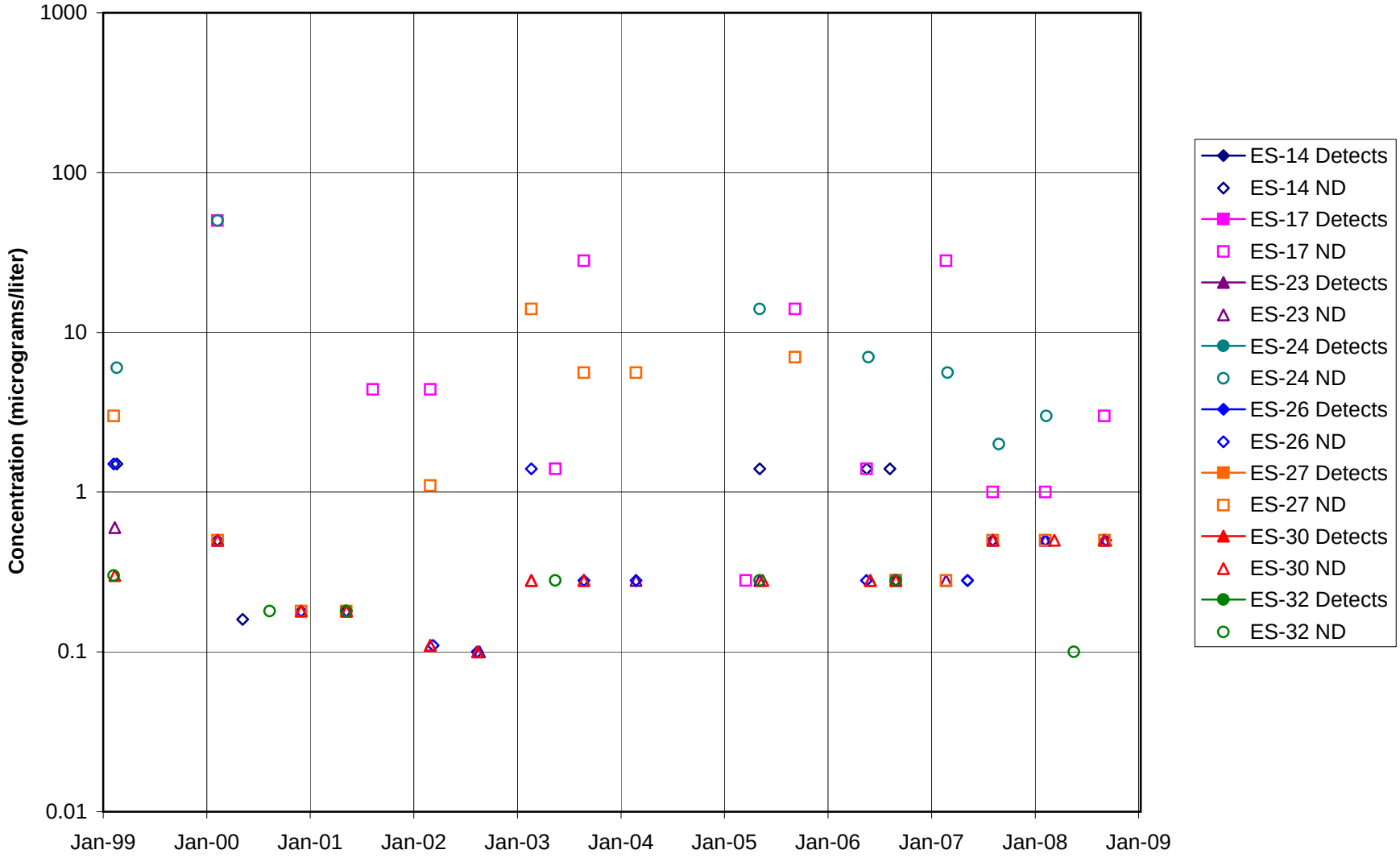


FIGURE F-104. BENZENE in STL-IV AREA CHATSWORTH FORMATION WELLS

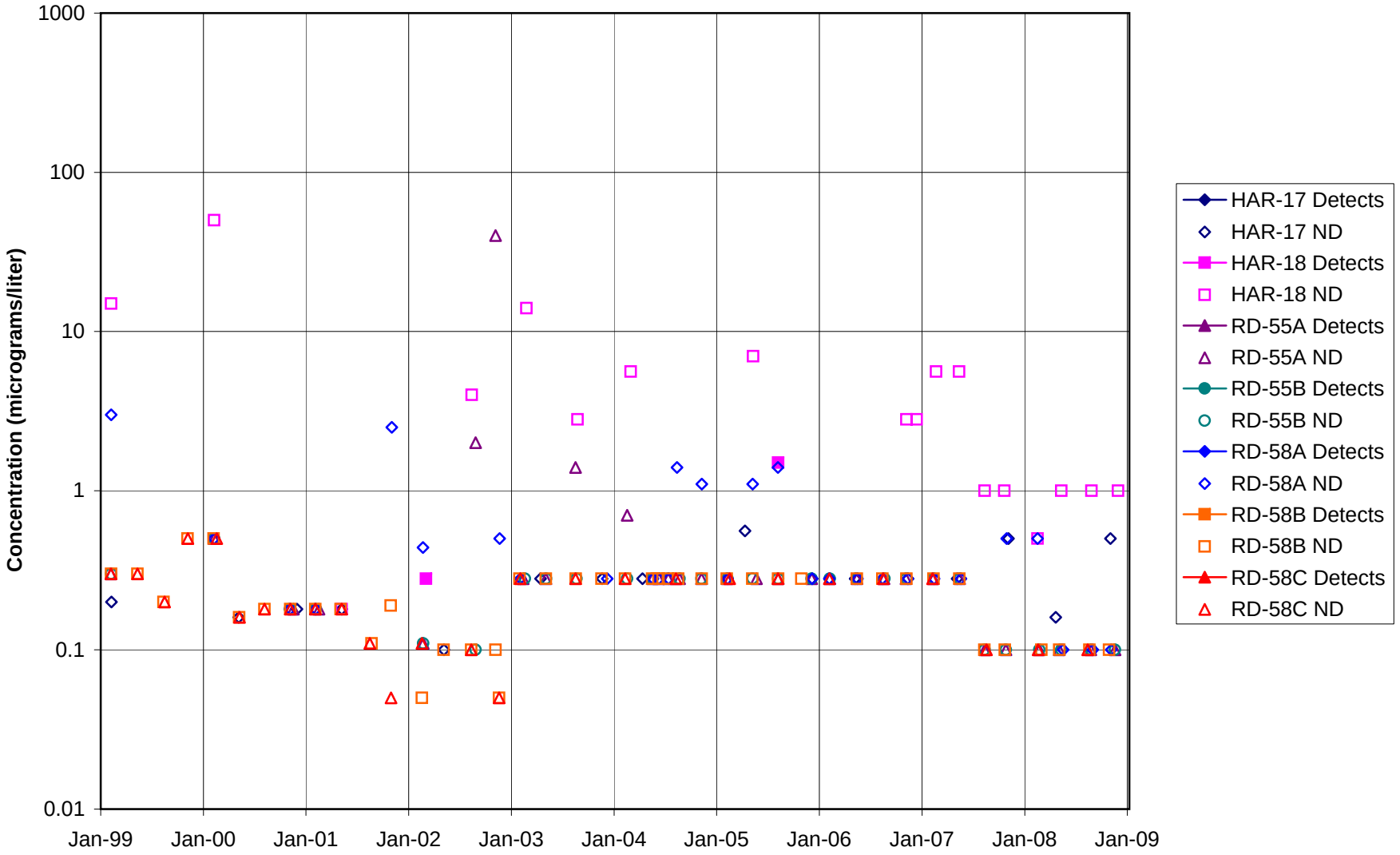


FIGURE F-105. BENZENE in MAIN GATE AREA WELLS - 1

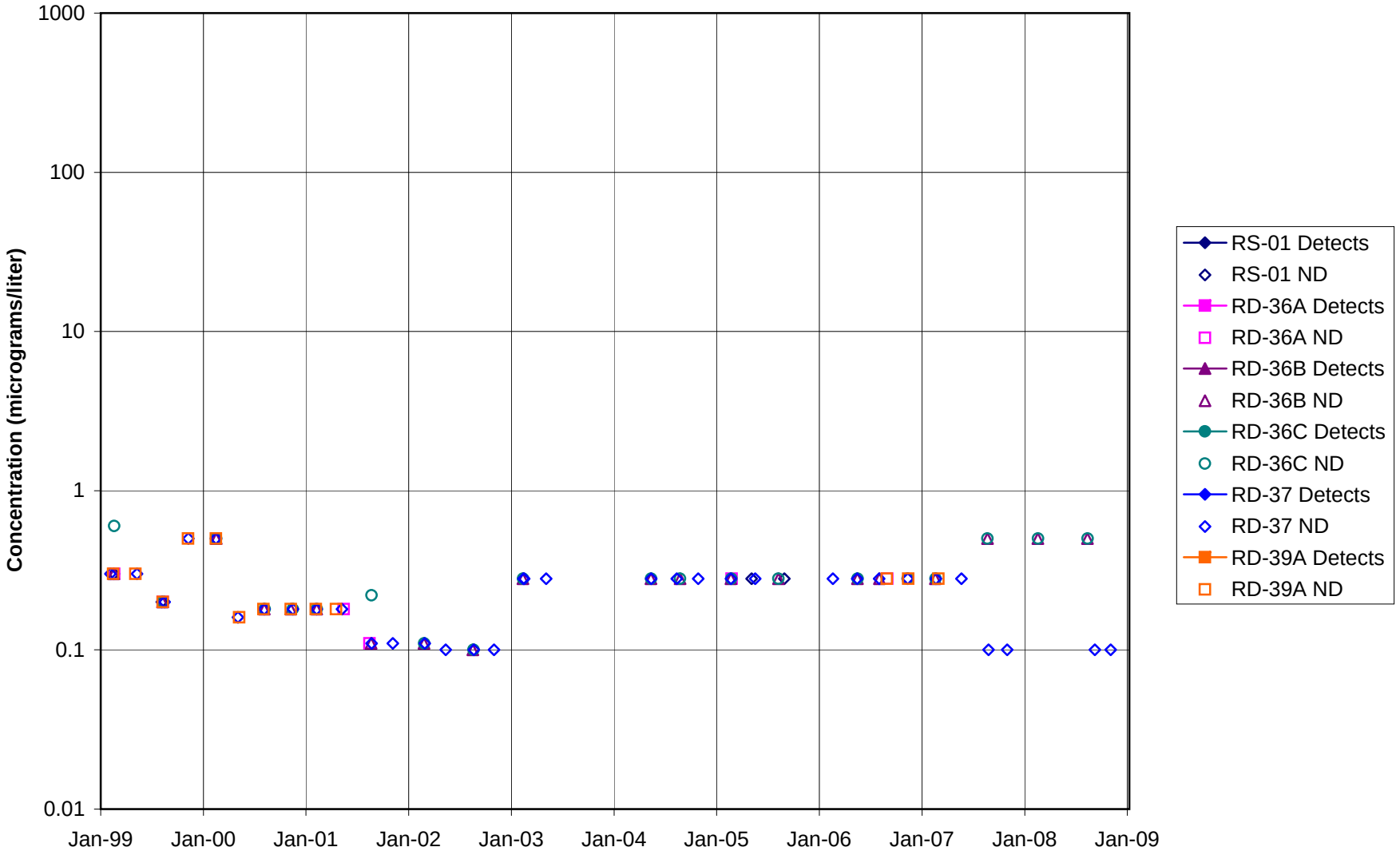


FIGURE F-106. BENZENE in MAIN GATE AREA WELLS - 2

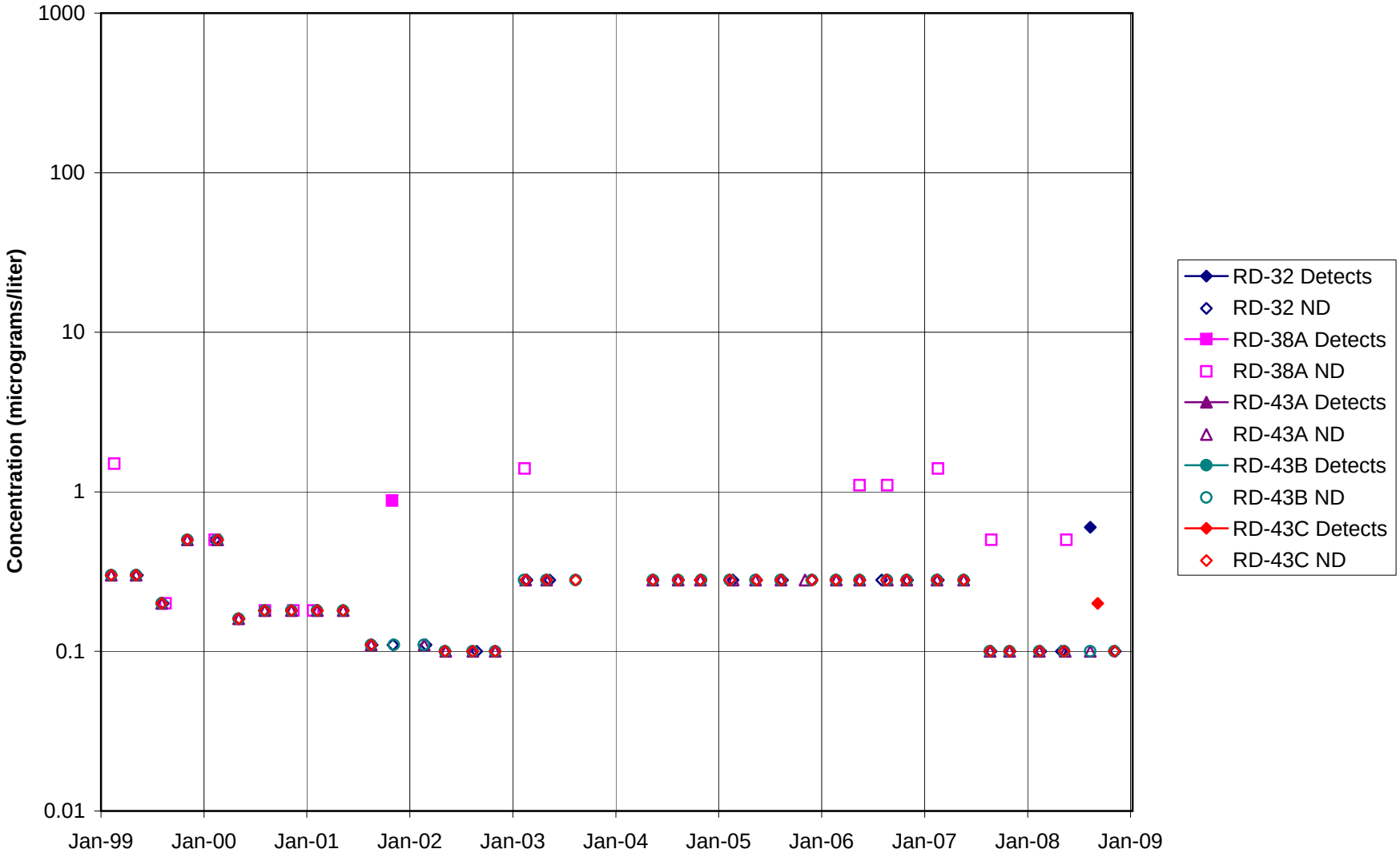


FIGURE F-107. BENZENE in APTF, CANYON, & HAPPY VALLEY AREA WELLS - 1

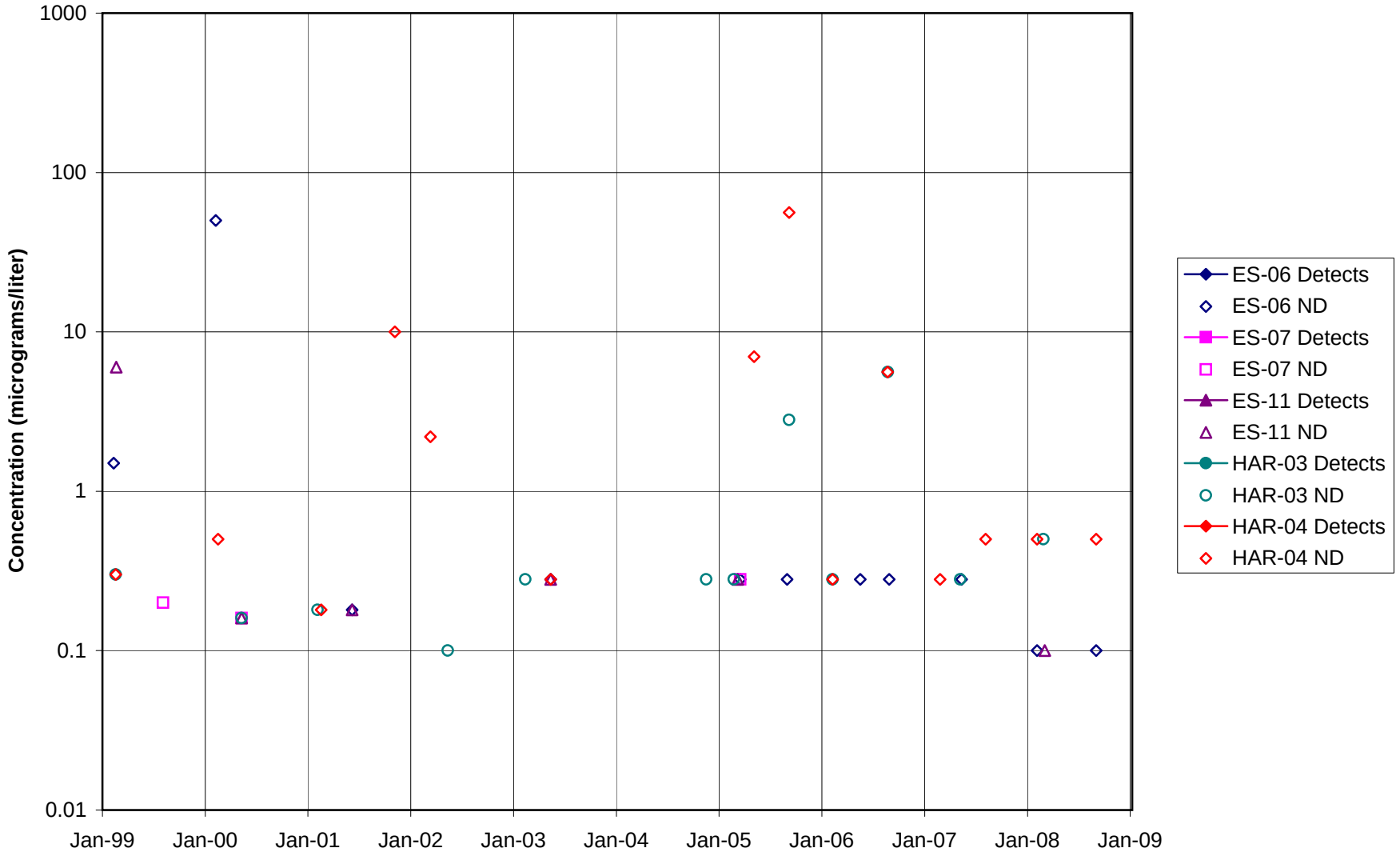


FIGURE F-108. BENZENE in APTF, CANYON, & HAPPY VALLEY AREA WELLS - 2

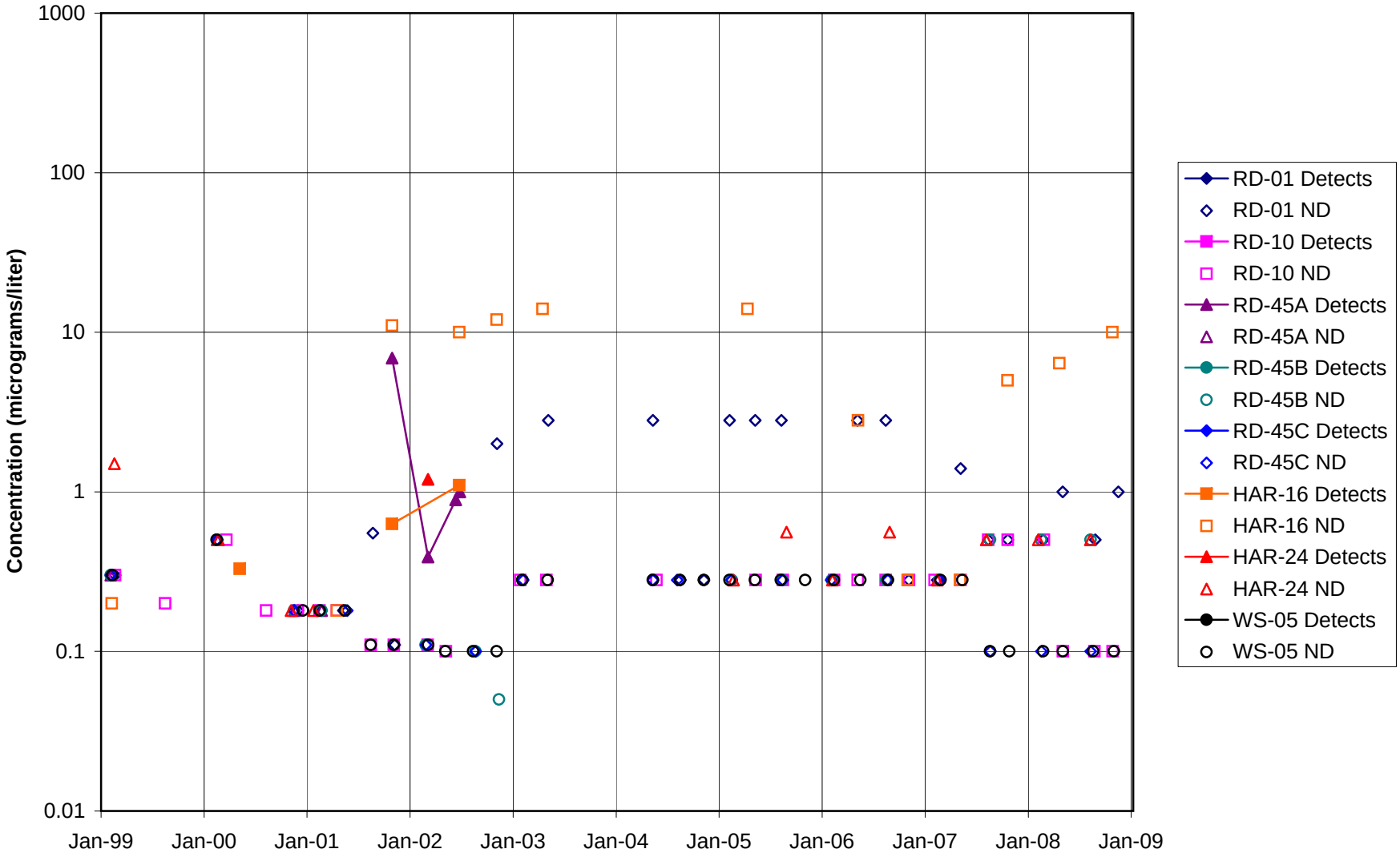


FIGURE F-109. BENZENE in CTL-III / PERIMETER POND AREA WELLS

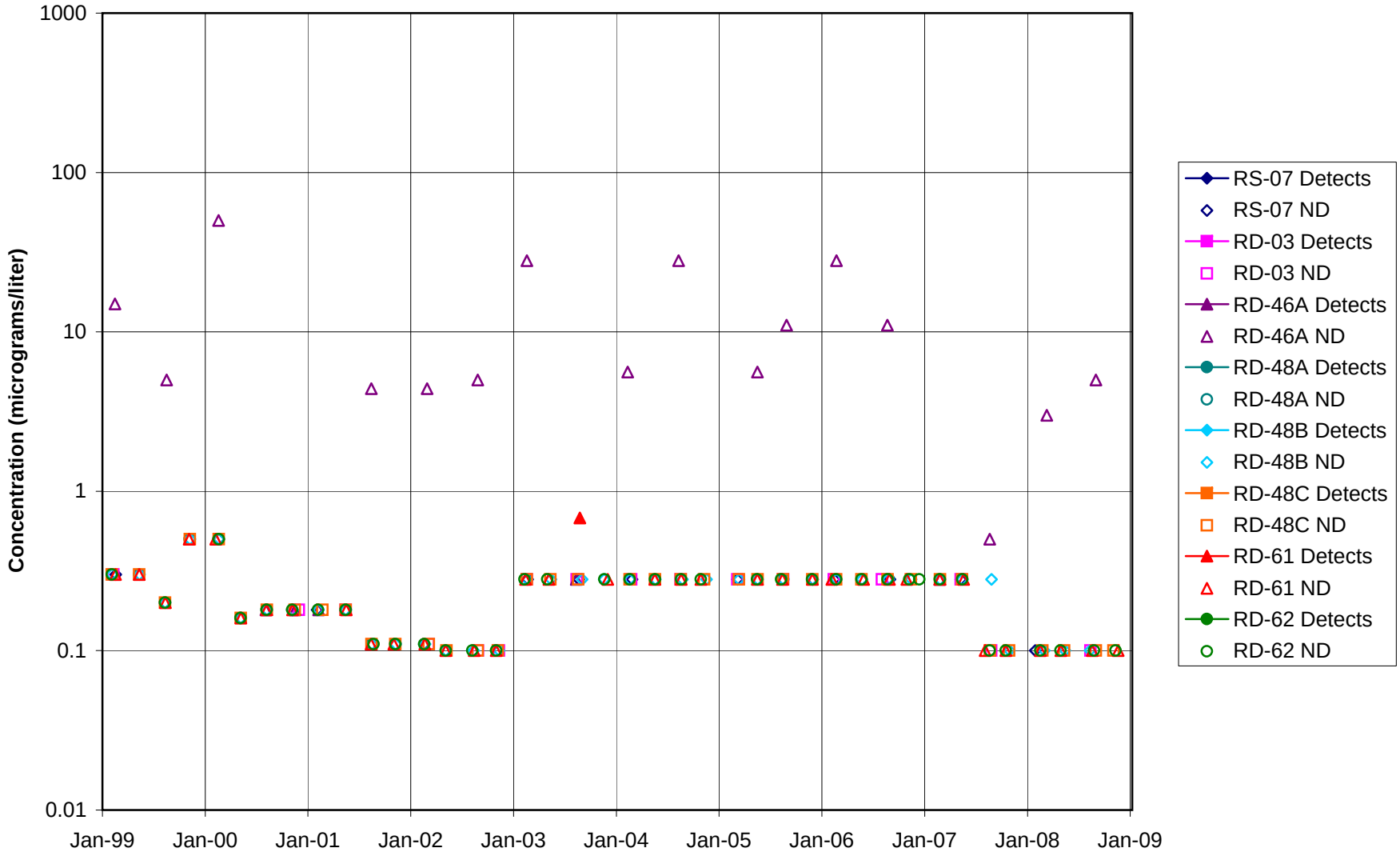


FIGURE F-110. BENZENE in BOWL AREA WELLS

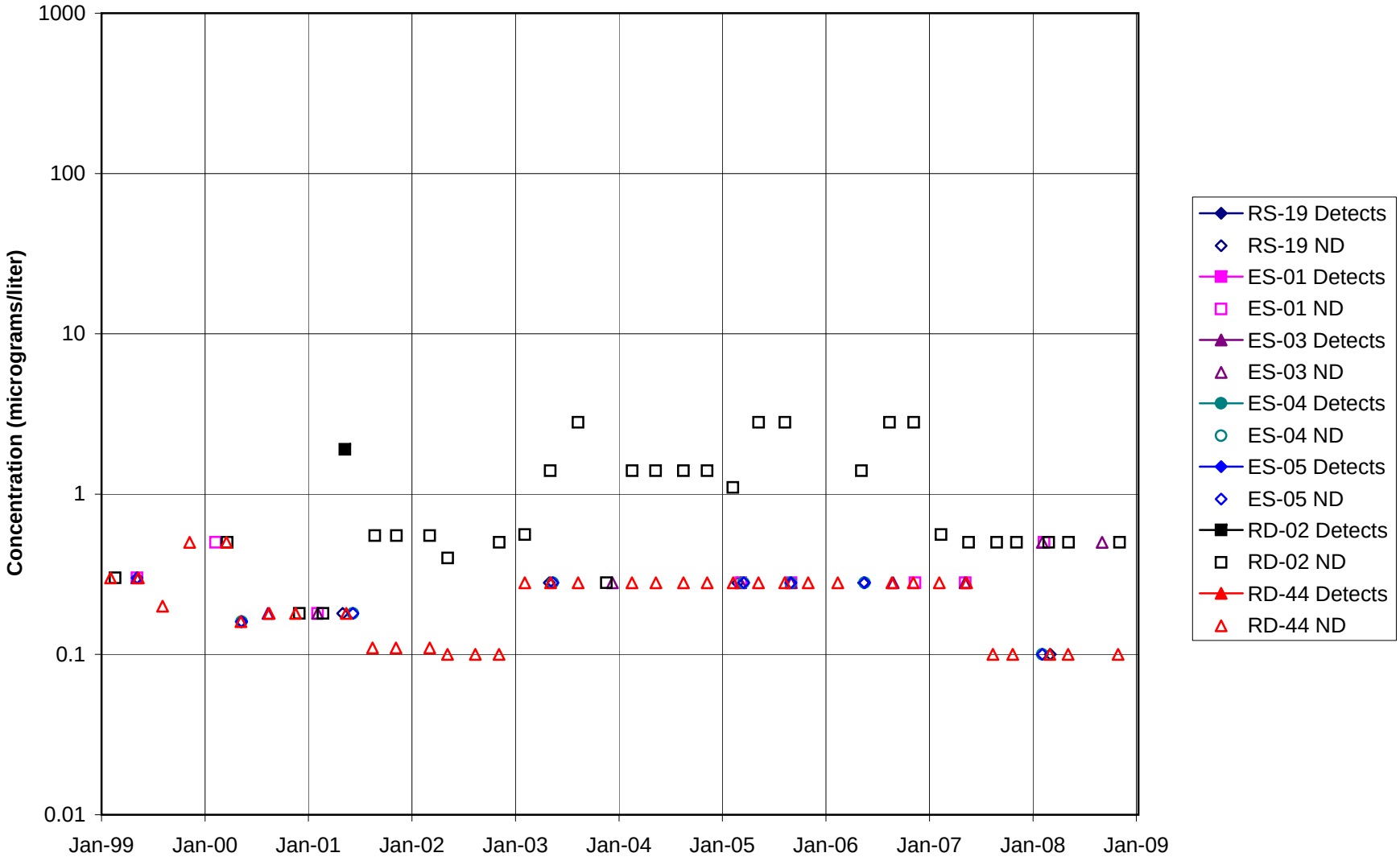


FIGURE F-111. BENZENE in ECL AREA WELLS

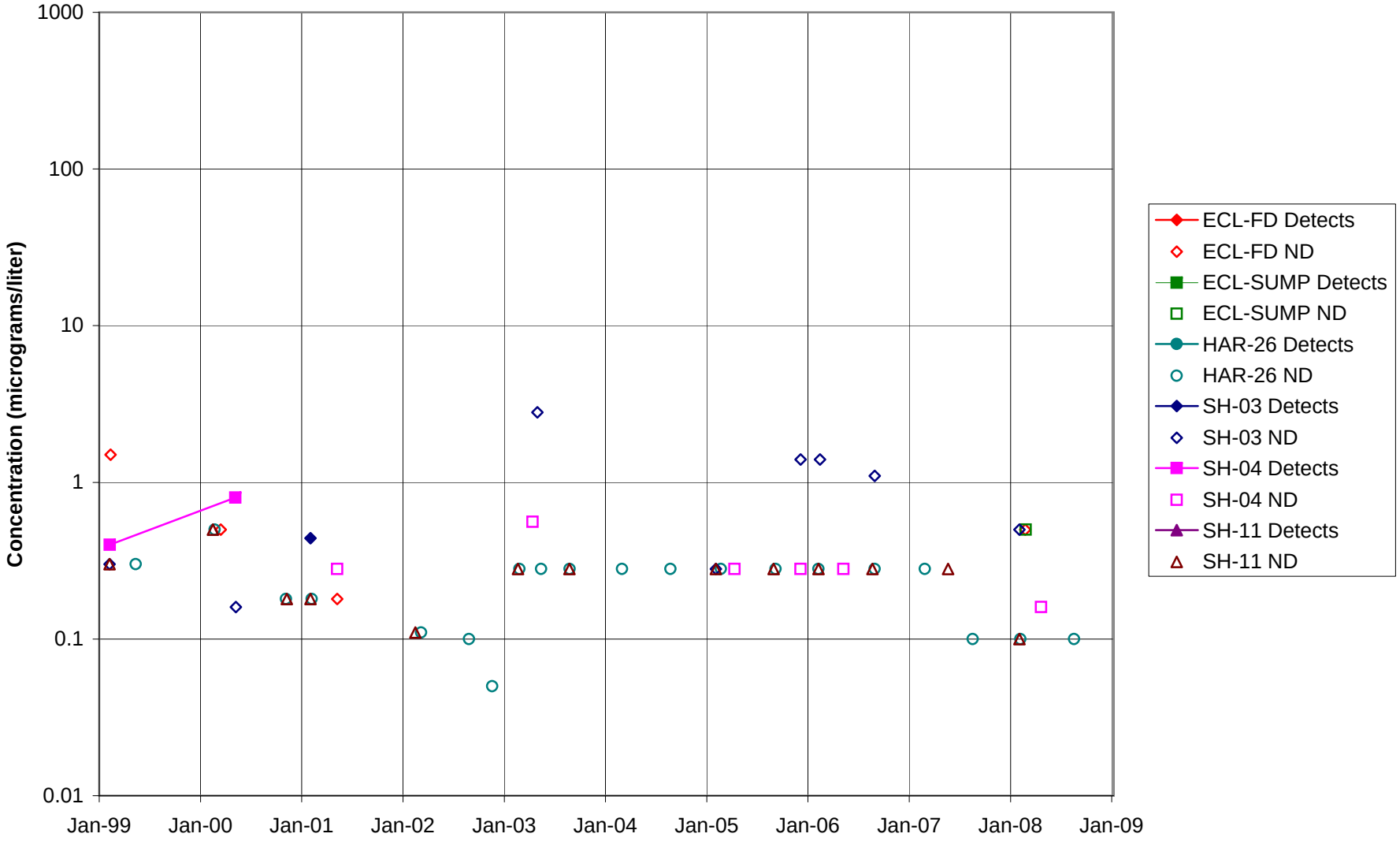


FIGURE F-112. BENZENE in FORMER LOX PLANT AREA WELLS

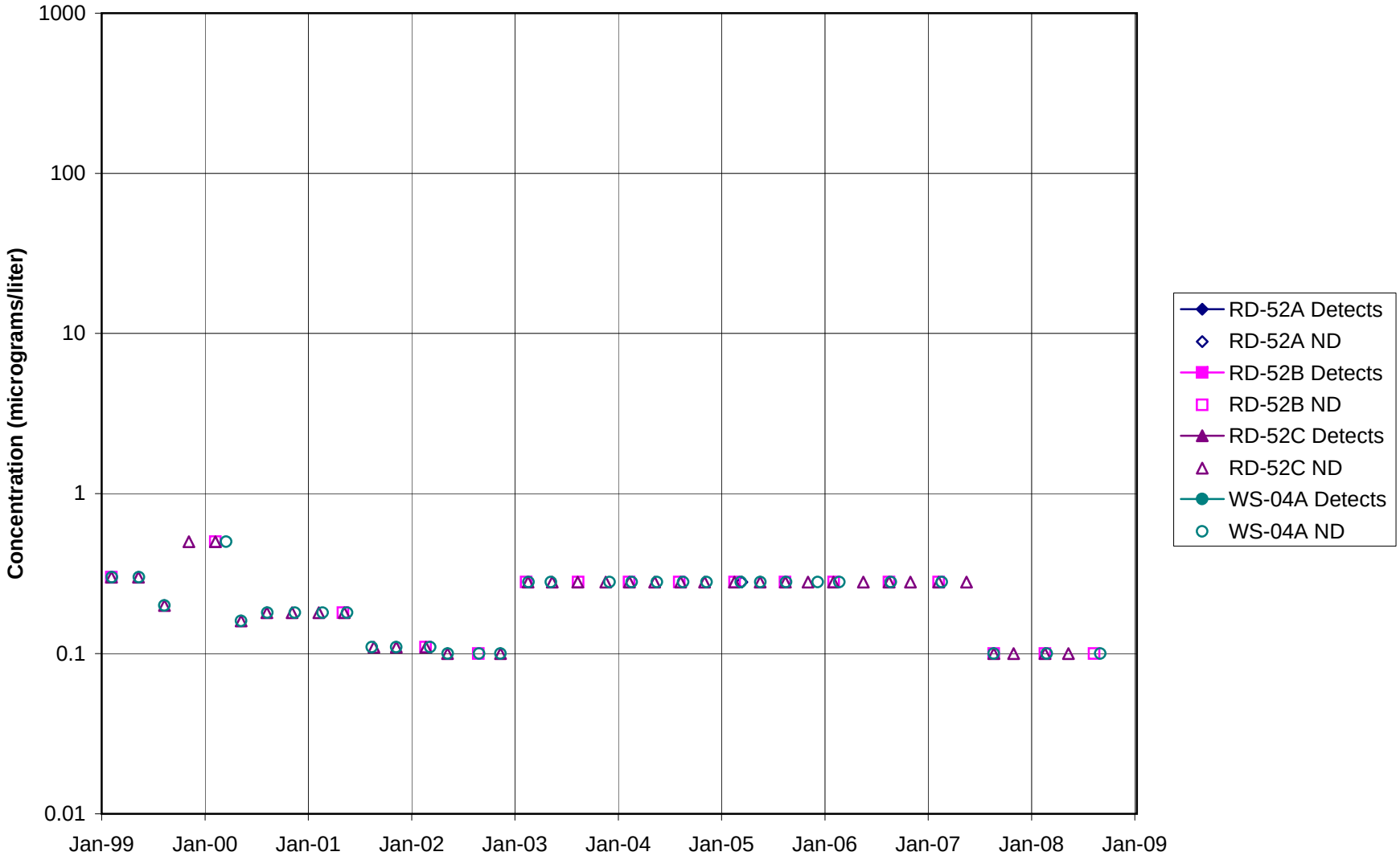


FIGURE F-113. BENZENE in RD- 09 AREA WELLS

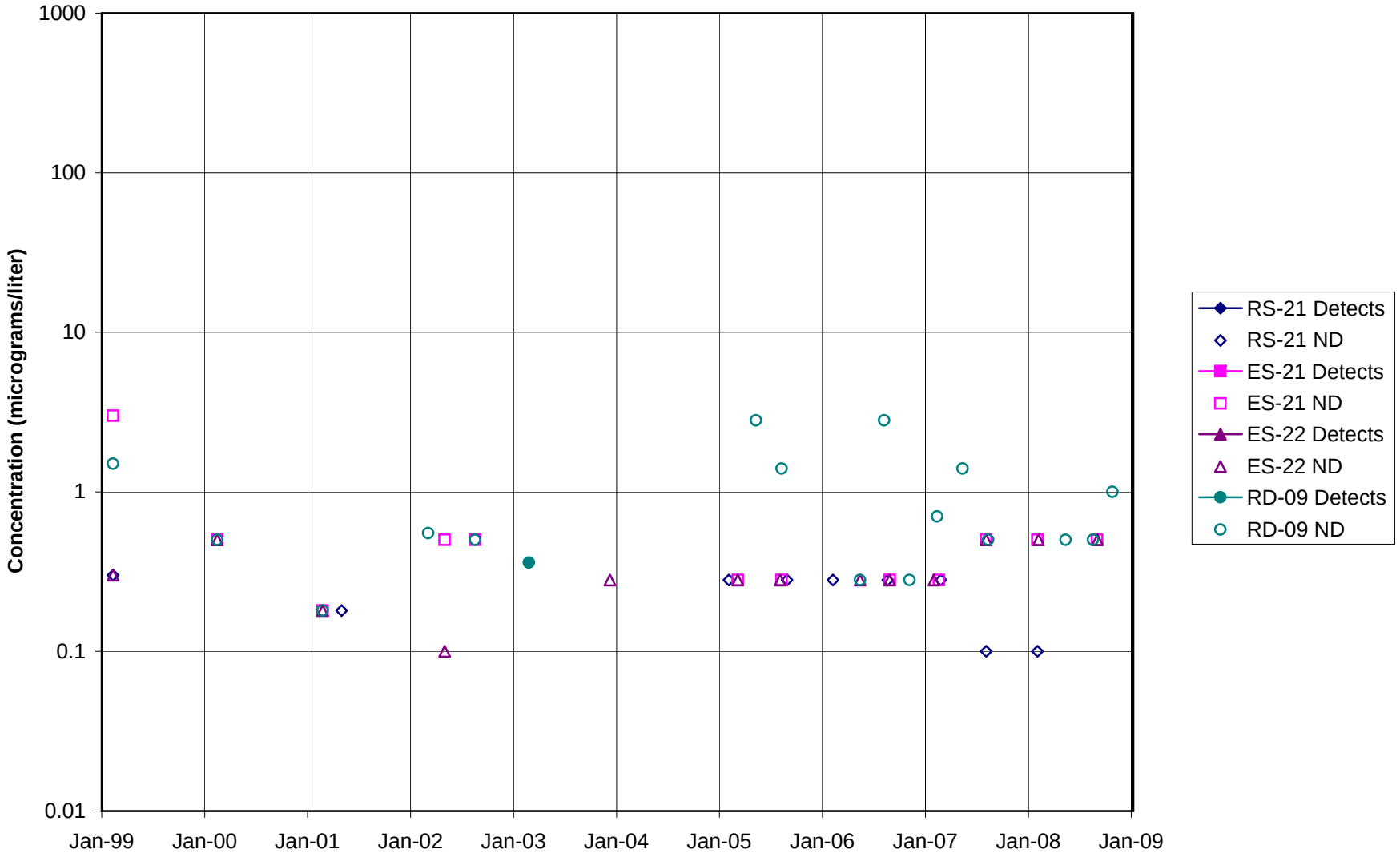


FIGURE F-114. BENZENE in HELIPORT, B/204 AREA WELLS

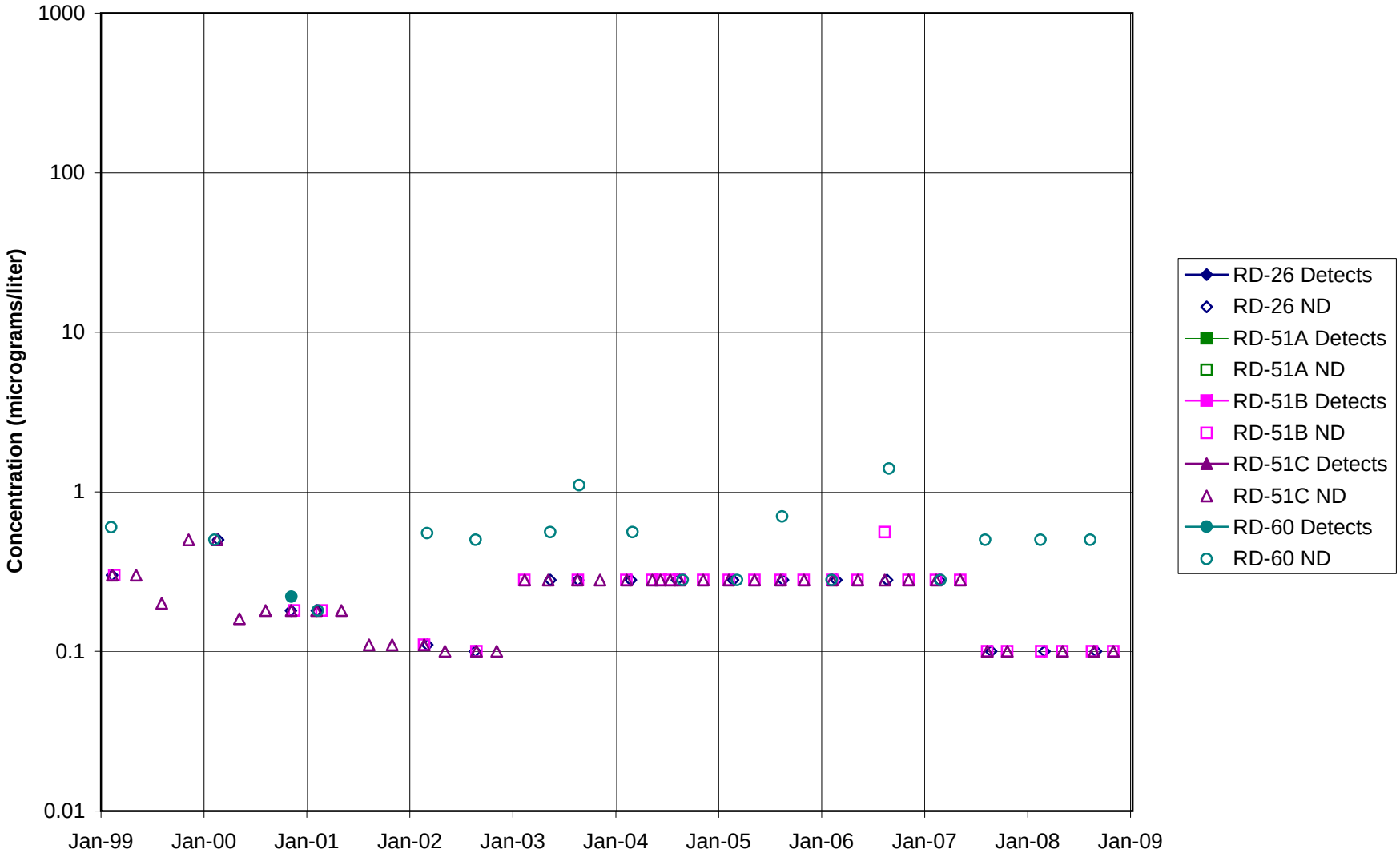


FIGURE F-115. BENZENE in ALFA / BRAVO AREA WELLS

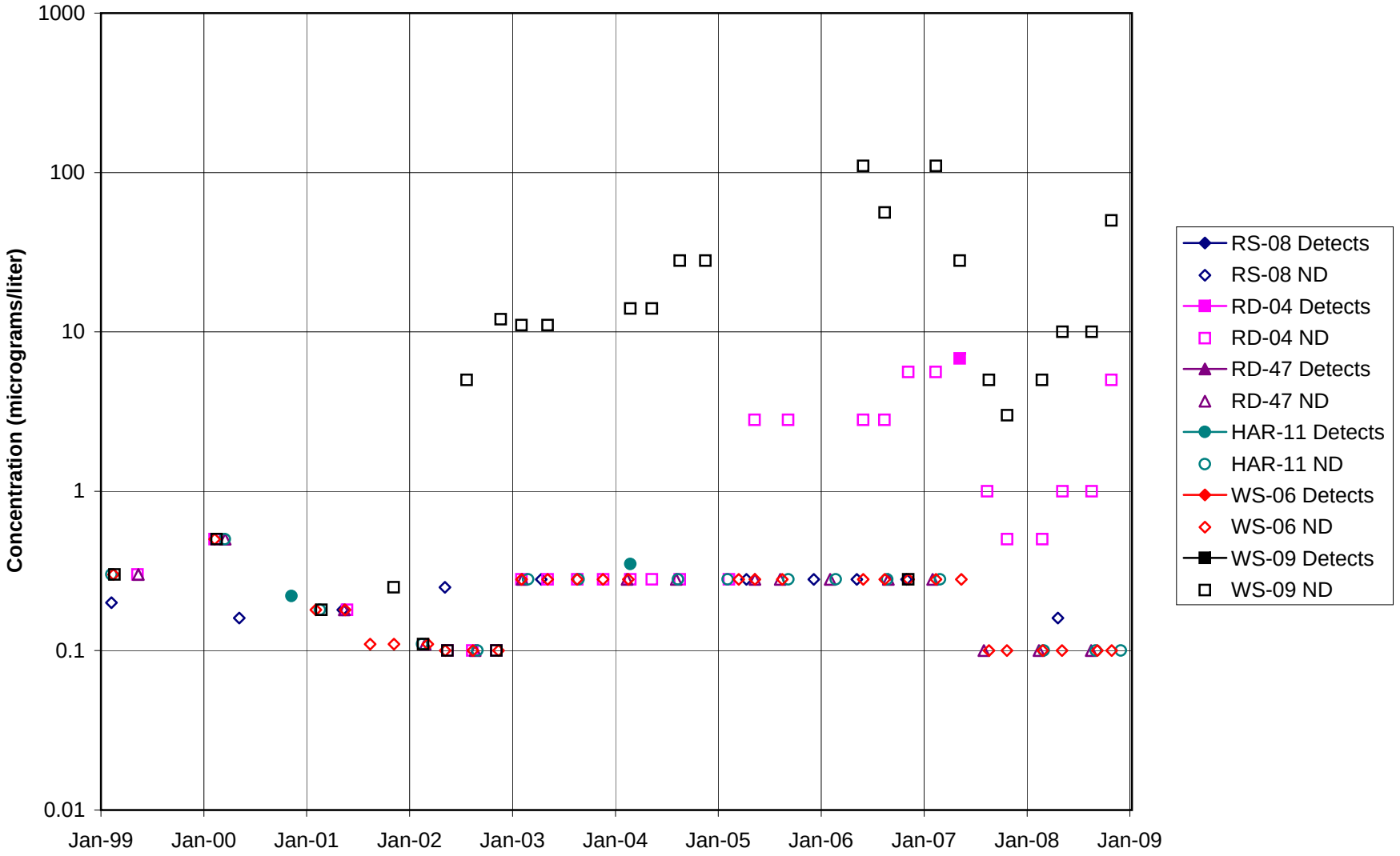


FIGURE F-116. BENZENE in SPA AREA WELLS

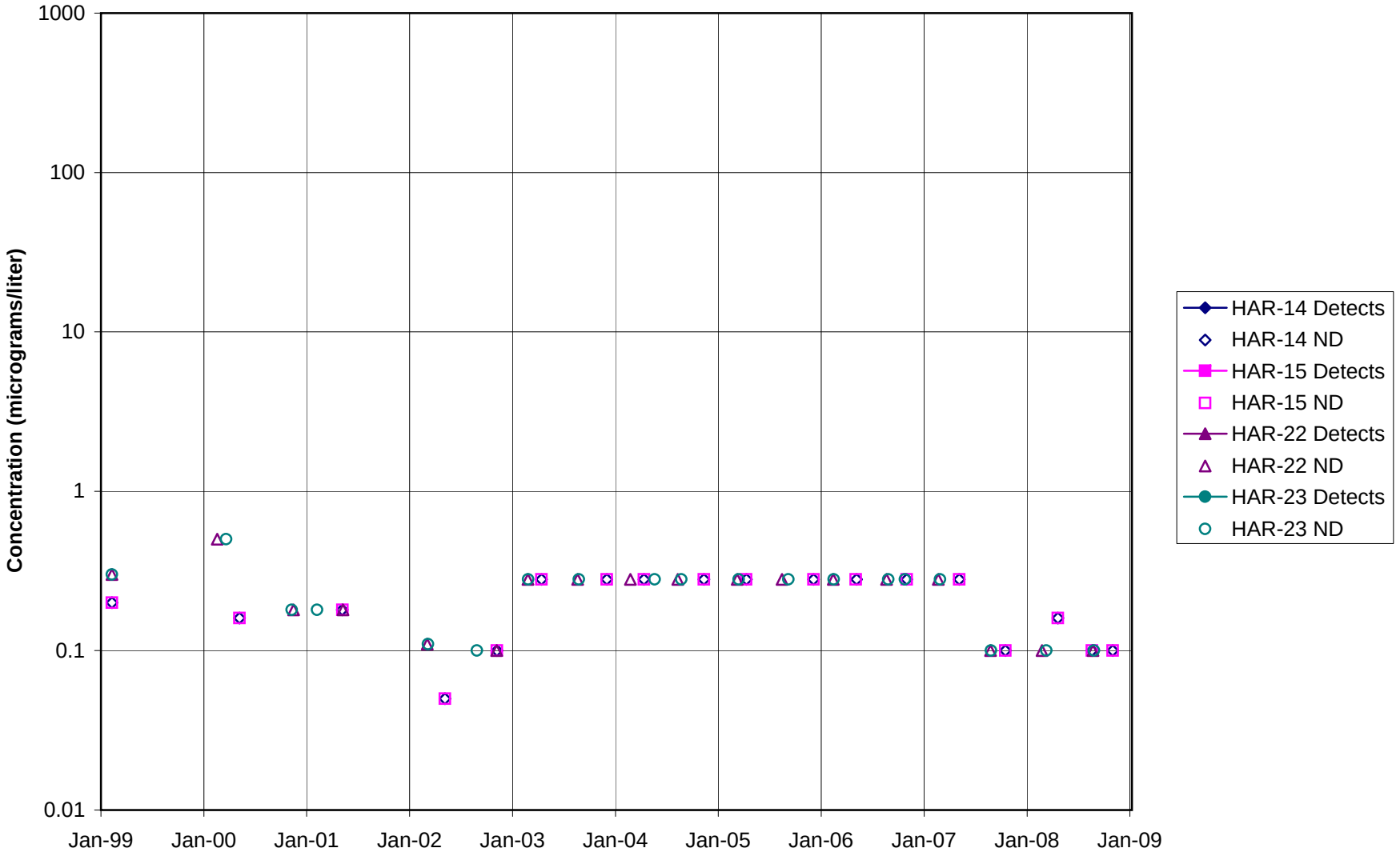


FIGURE F-117. BENZENE in COCA / PLF AREA WELLS

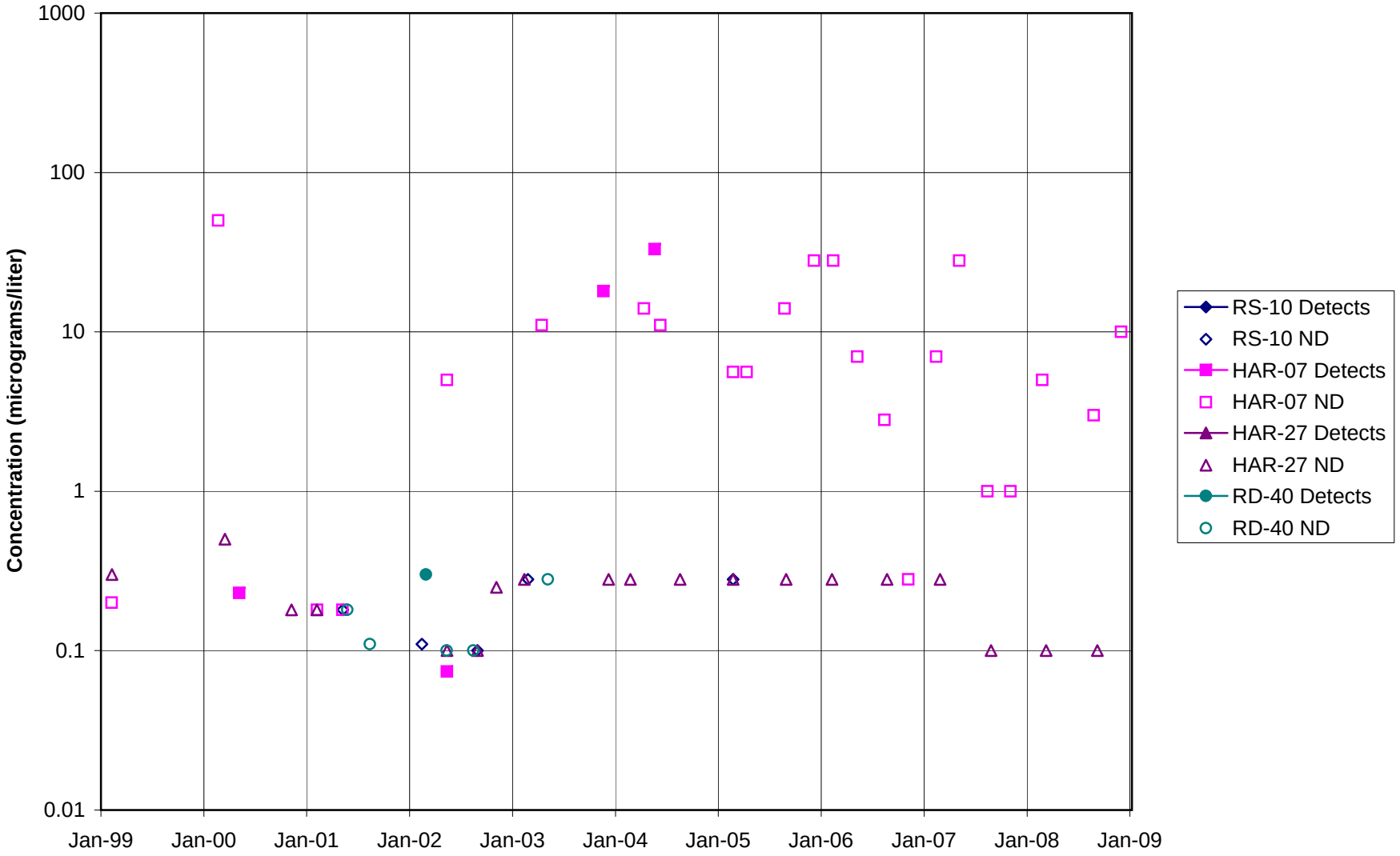


FIGURE F-118. BENZENE in DELTA / BUFFER ZONE AREA WELLS

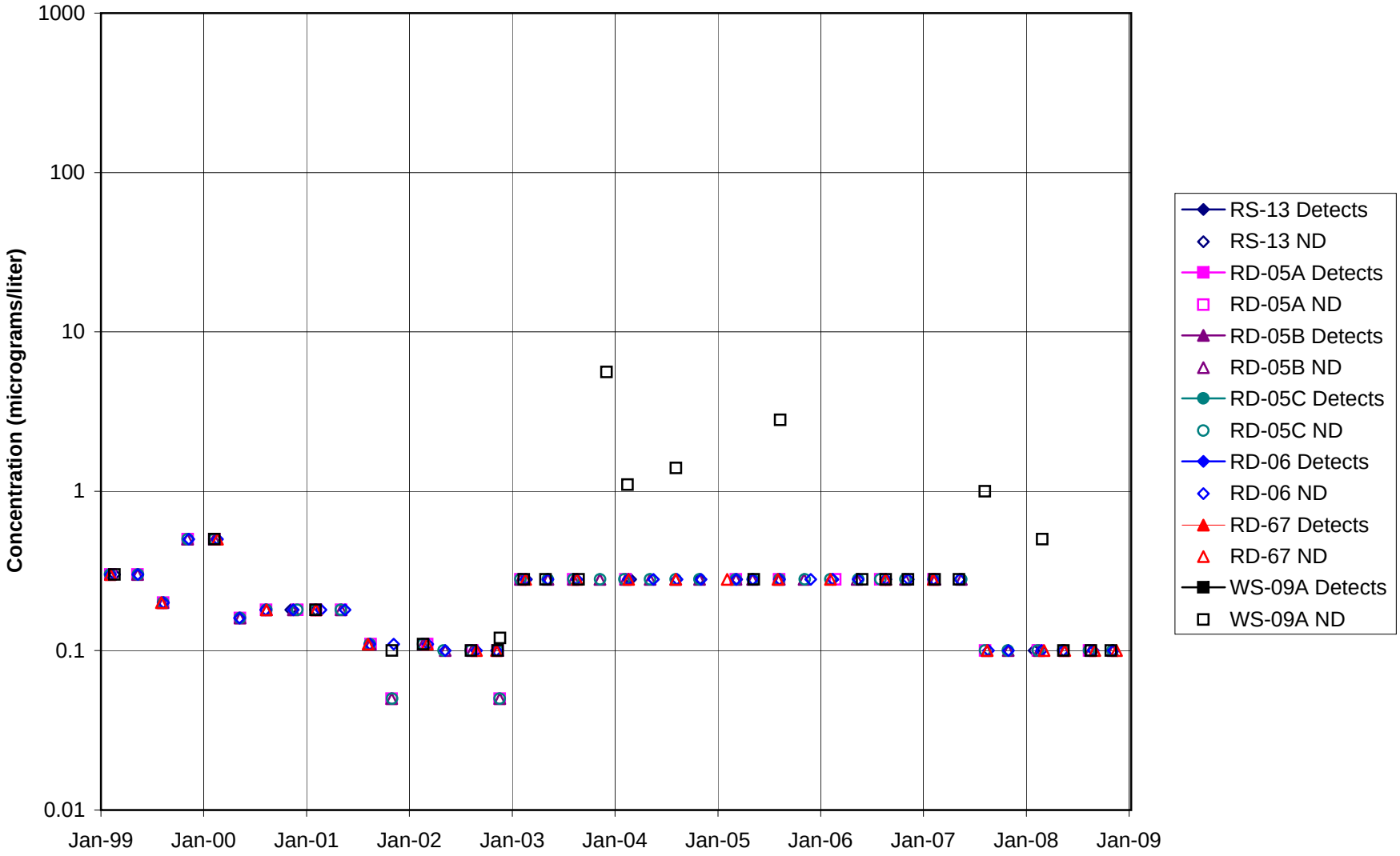


FIGURE F-119. BENZENE in AREA IV AREA WELLS

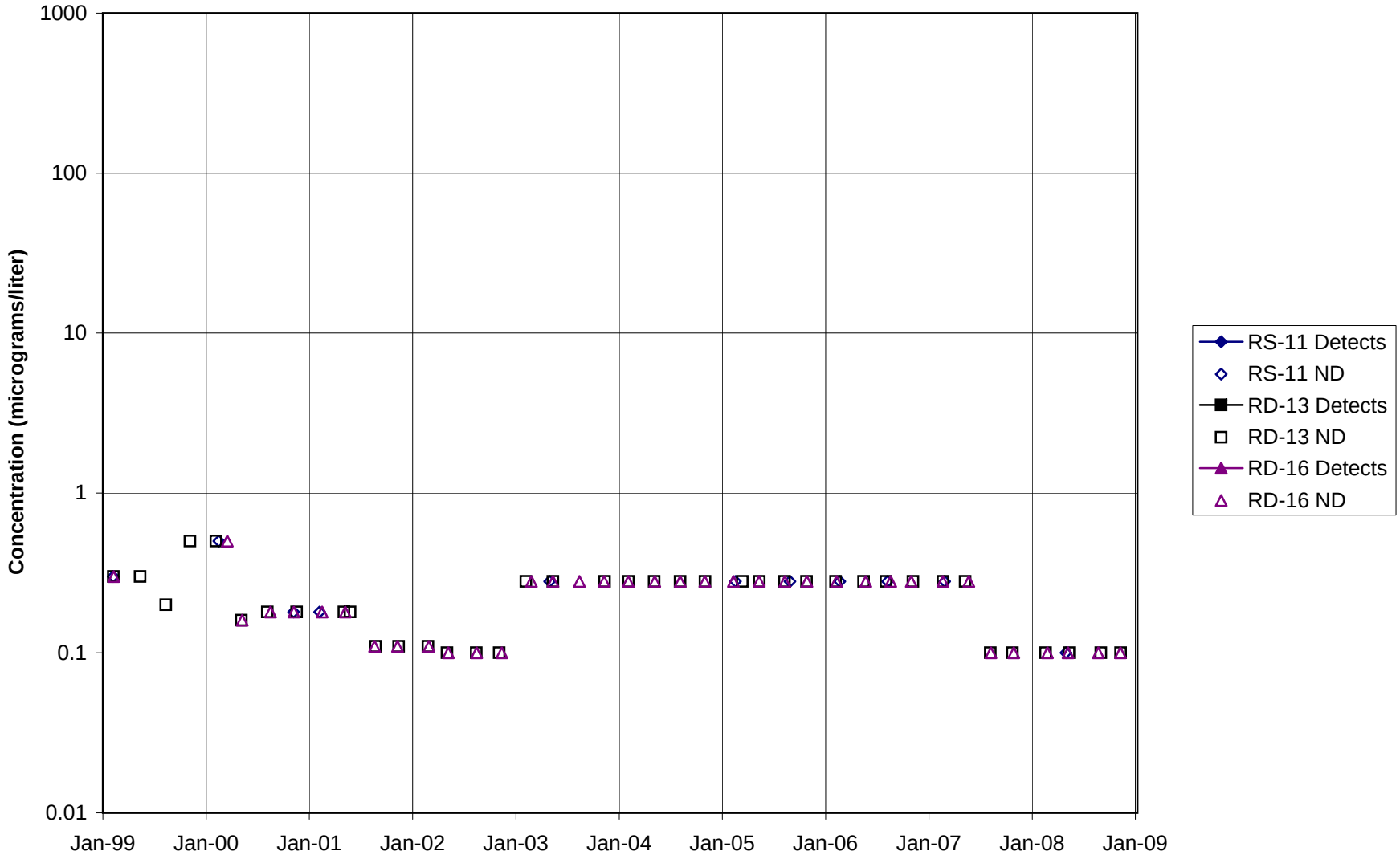


FIGURE F-120. CARBON TETRACHLORIDE in STL-IV AREA SHALLOW WELLS

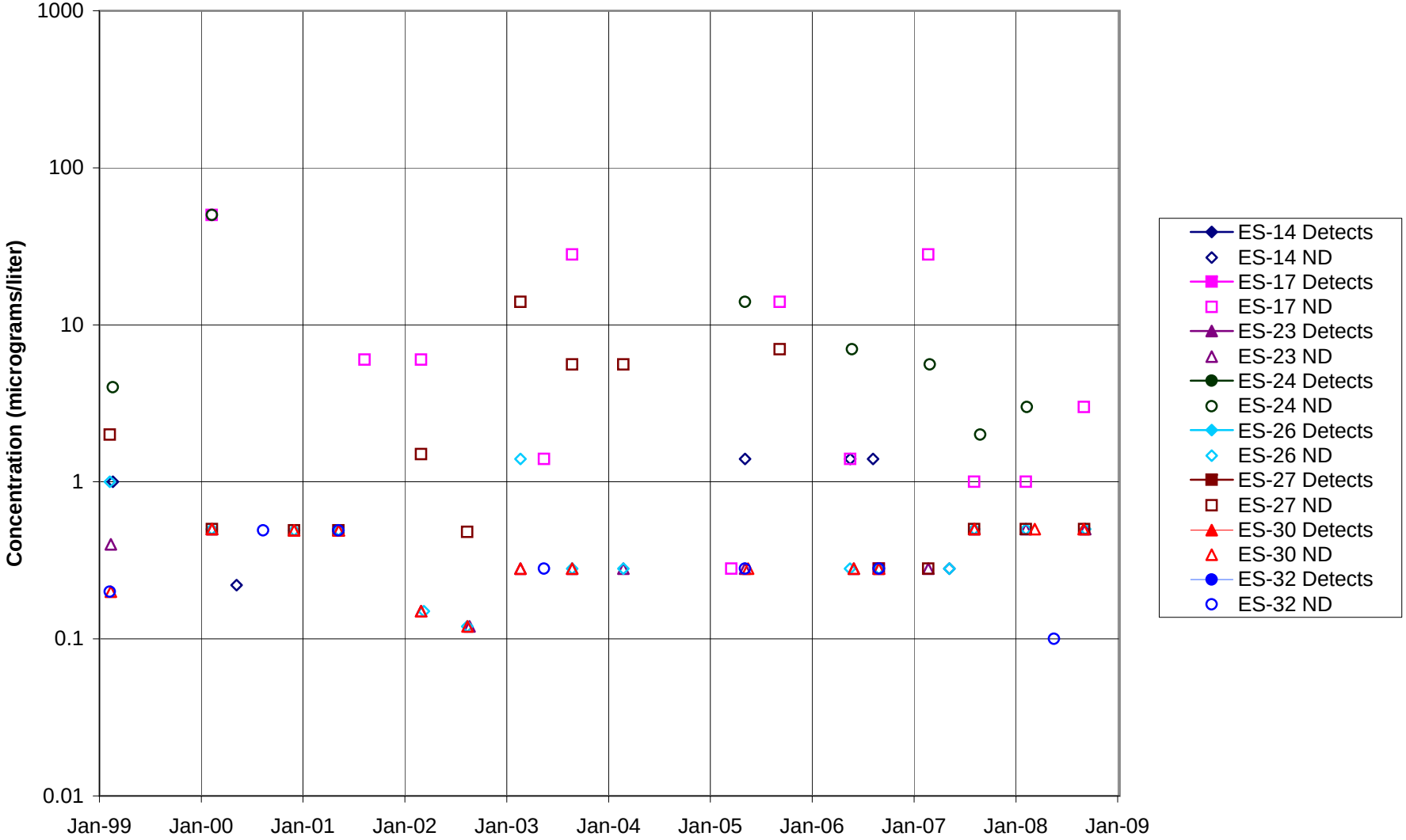


FIGURE F-121. CARBON TETRACHLORIDE in STL-IV AREA CHATSWORTH FORMATION WELLS

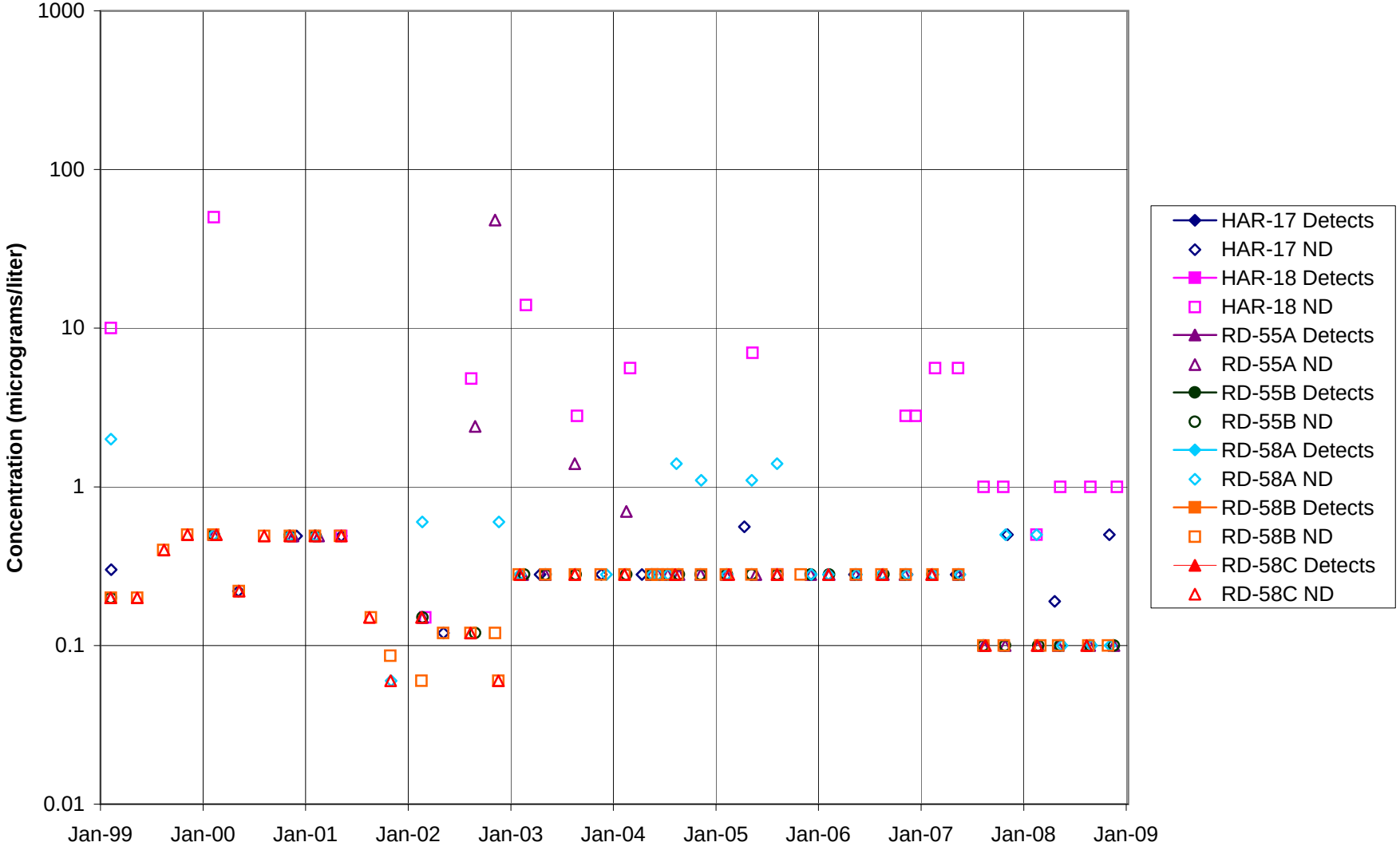


FIGURE F-122. CARBON TETRACHLORIDE in MAIN GATE AREA WELLS - 1

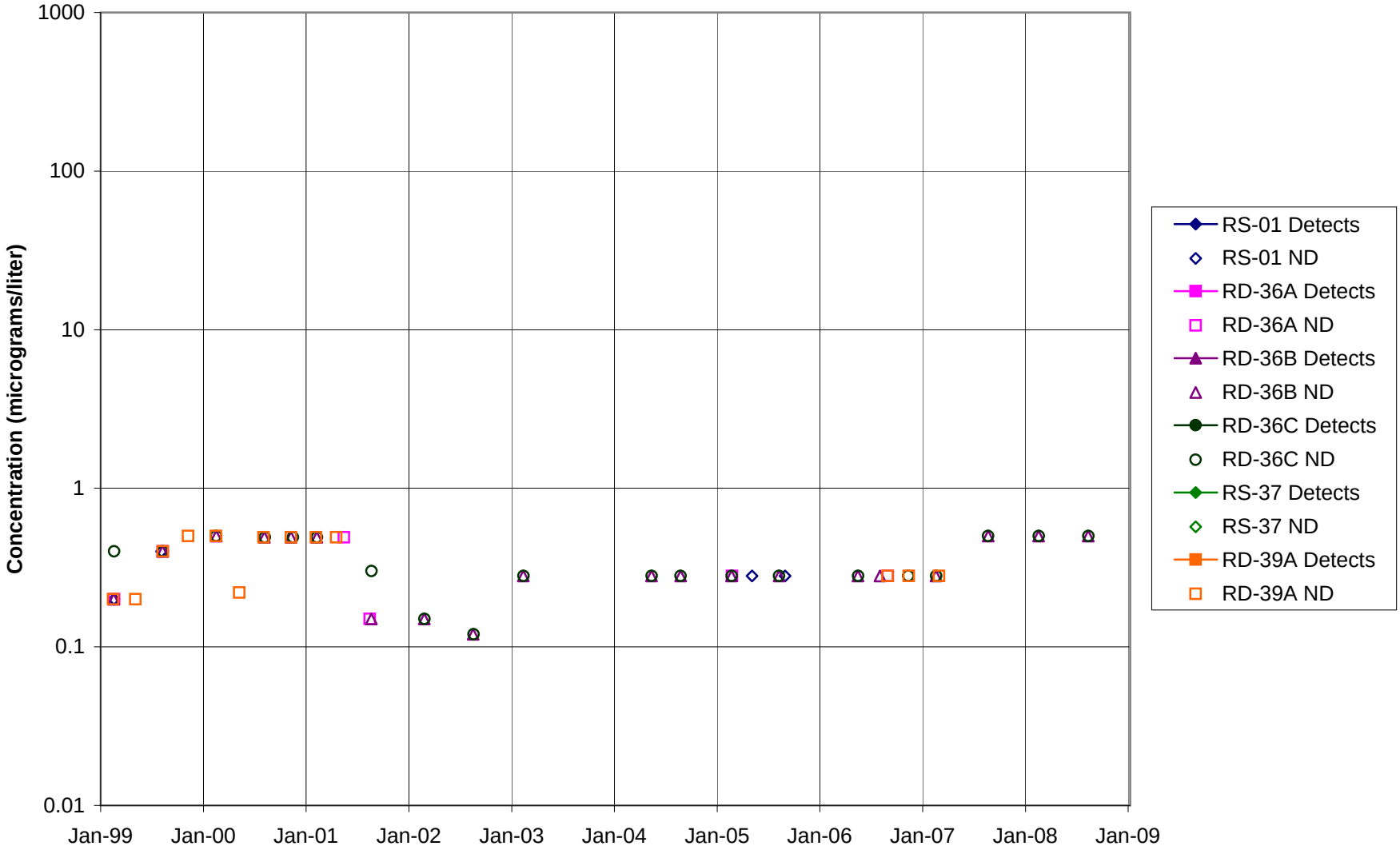


FIGURE F-123. CARBON TETRACHLORIDE in MAIN GATE AREA WELLS - 2

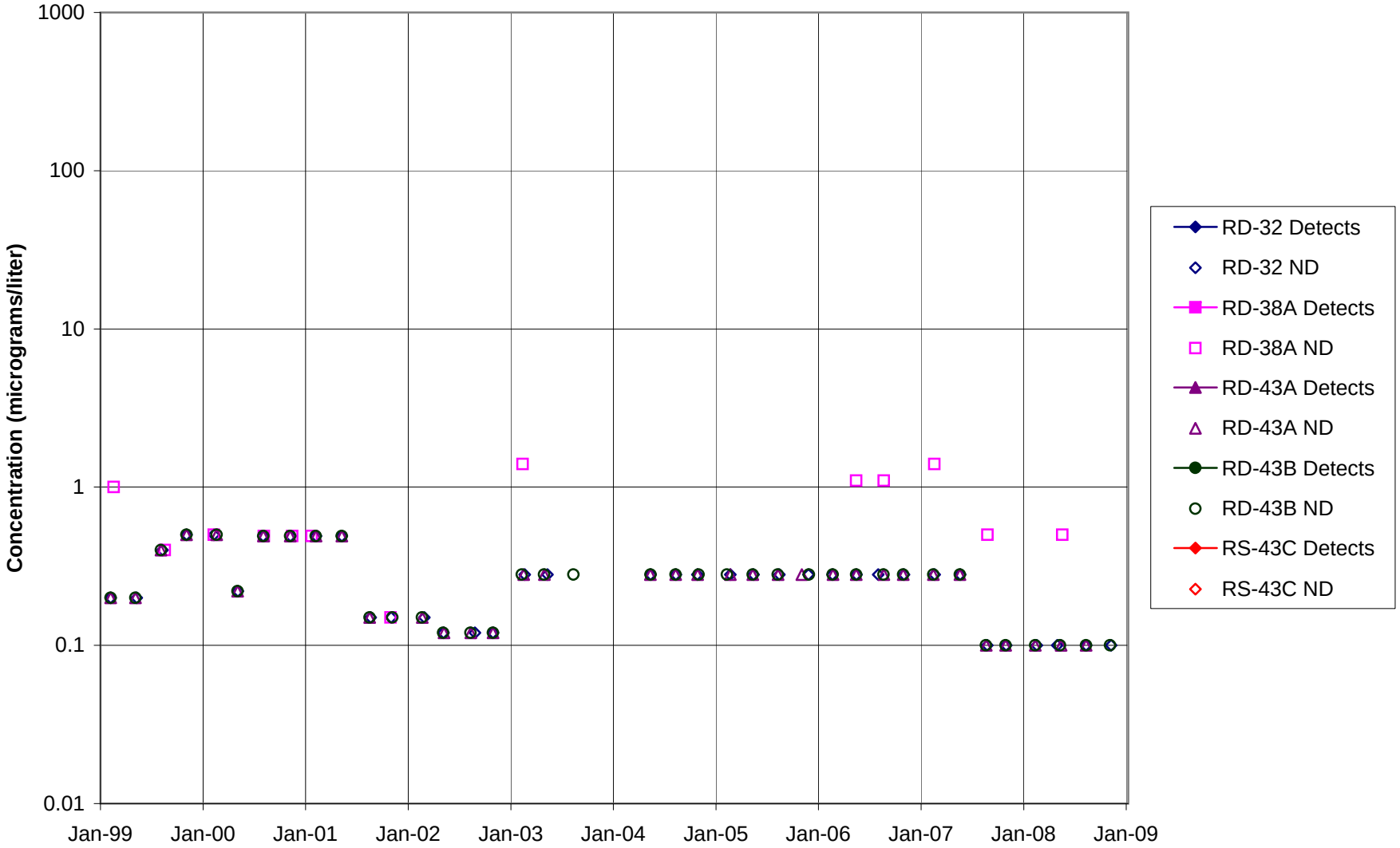


FIGURE F-124. CARBON TETRACHLORIDE in APTF, CANYON, & HAPPY VALLEY WELLS - 1

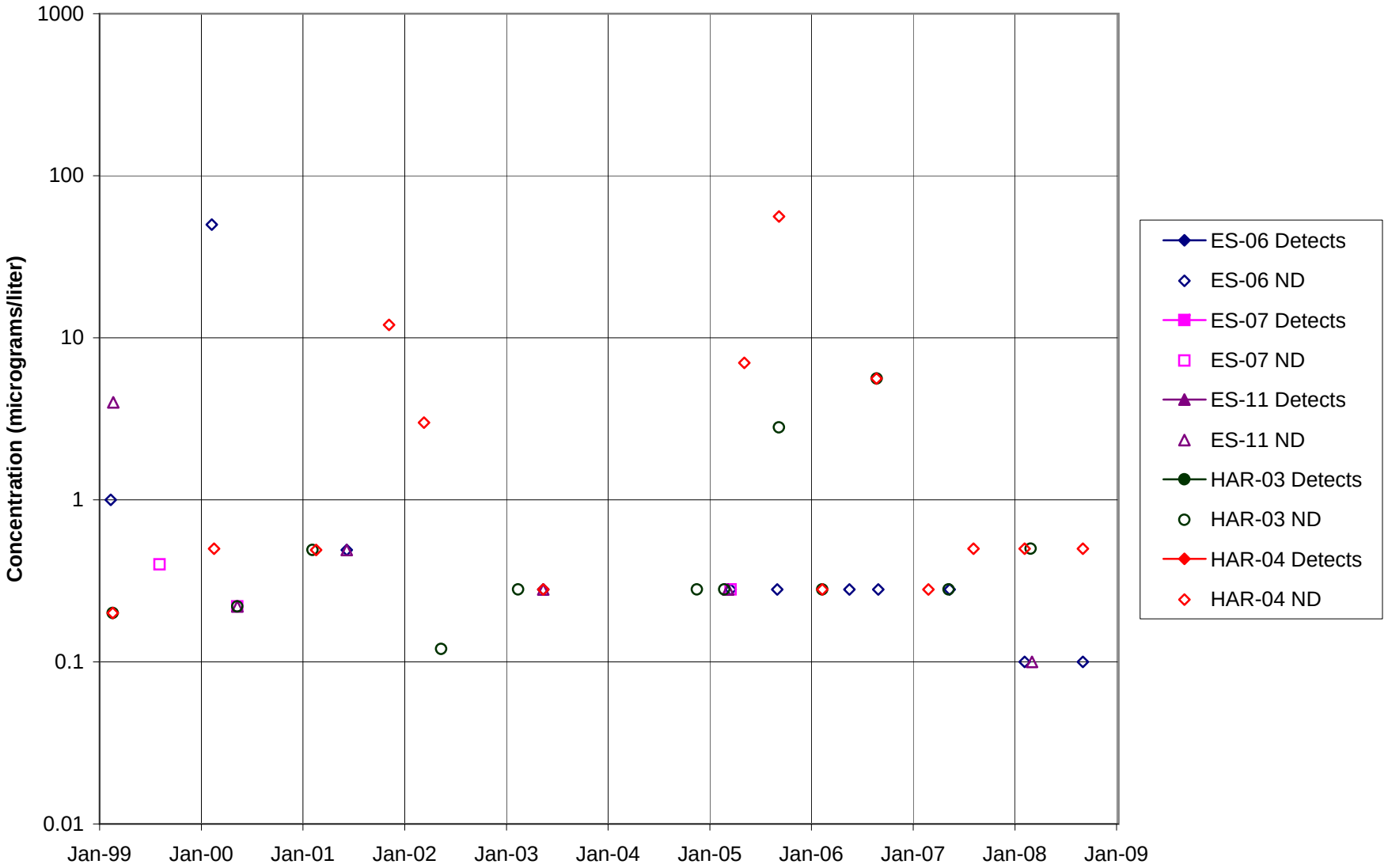


FIGURE F-125. CARBON TETRACHLORIDE in APTF, CANYON, & HAPPY VALLEY WELLS - 2

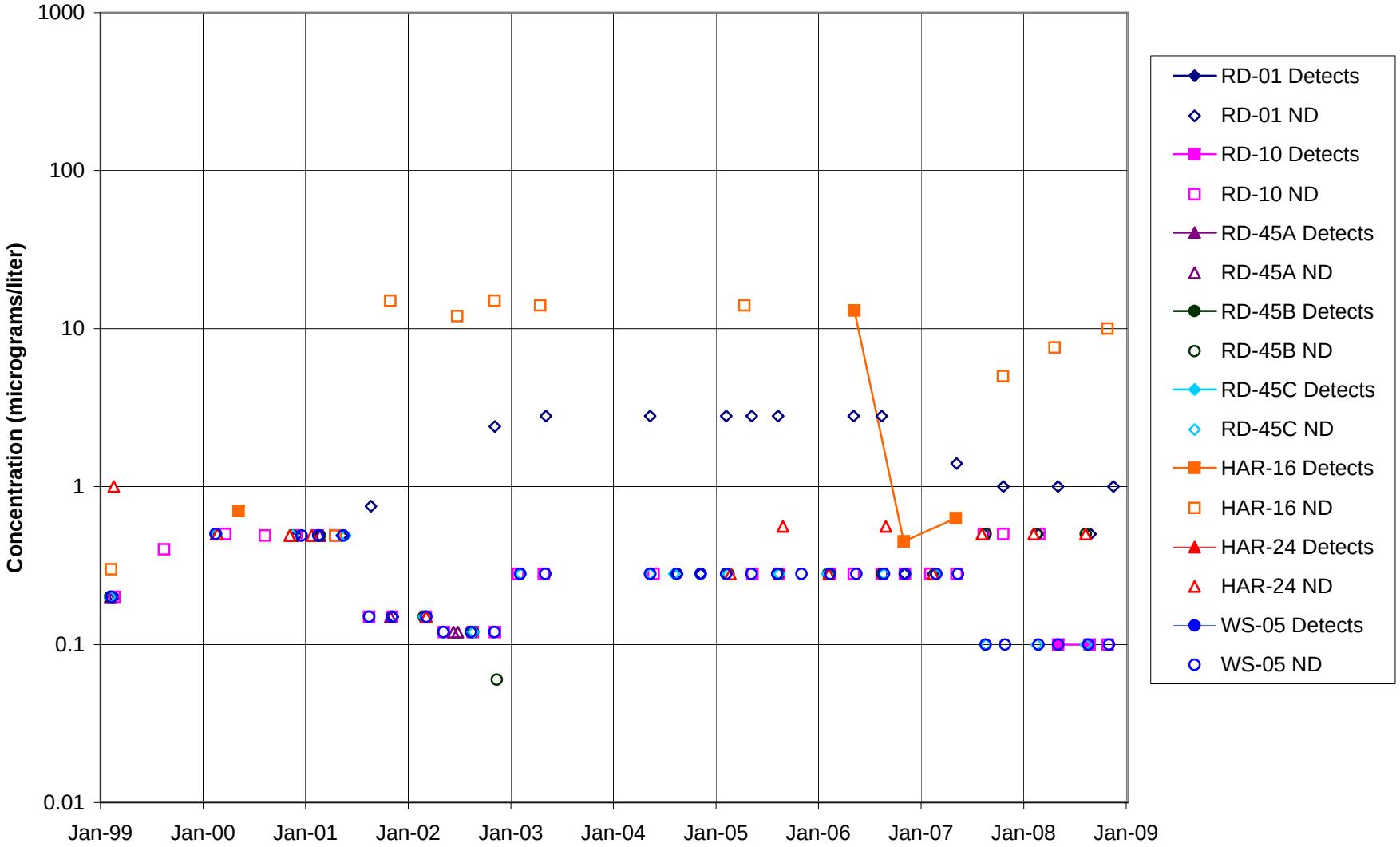


FIGURE F-126. CARBON TETRACHLORIDE in CTL-III / PERIMETER POND AREA WELLS

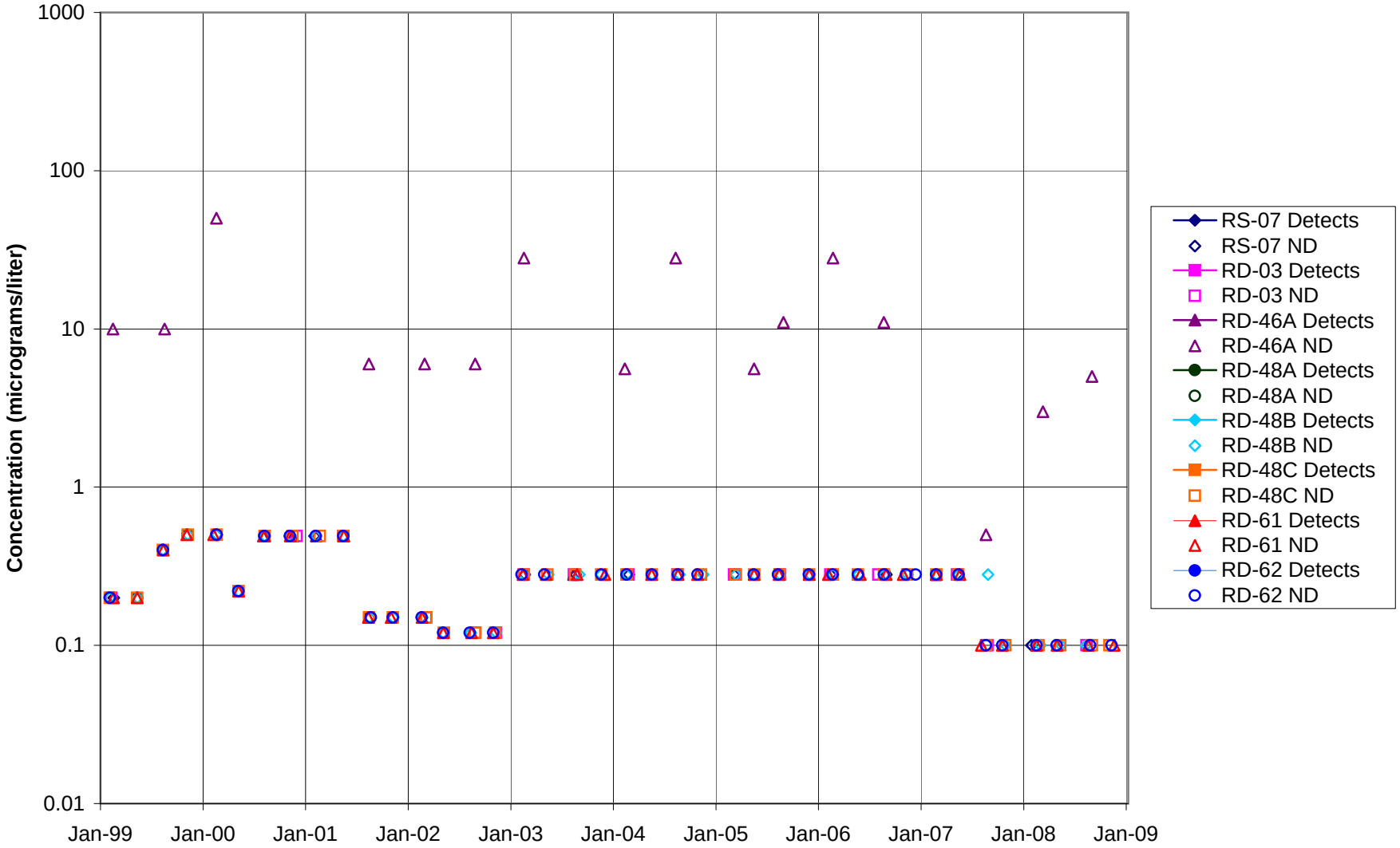


FIGURE F-127. CARBON TETRACHLORIDE in BOWL AREA WELLS

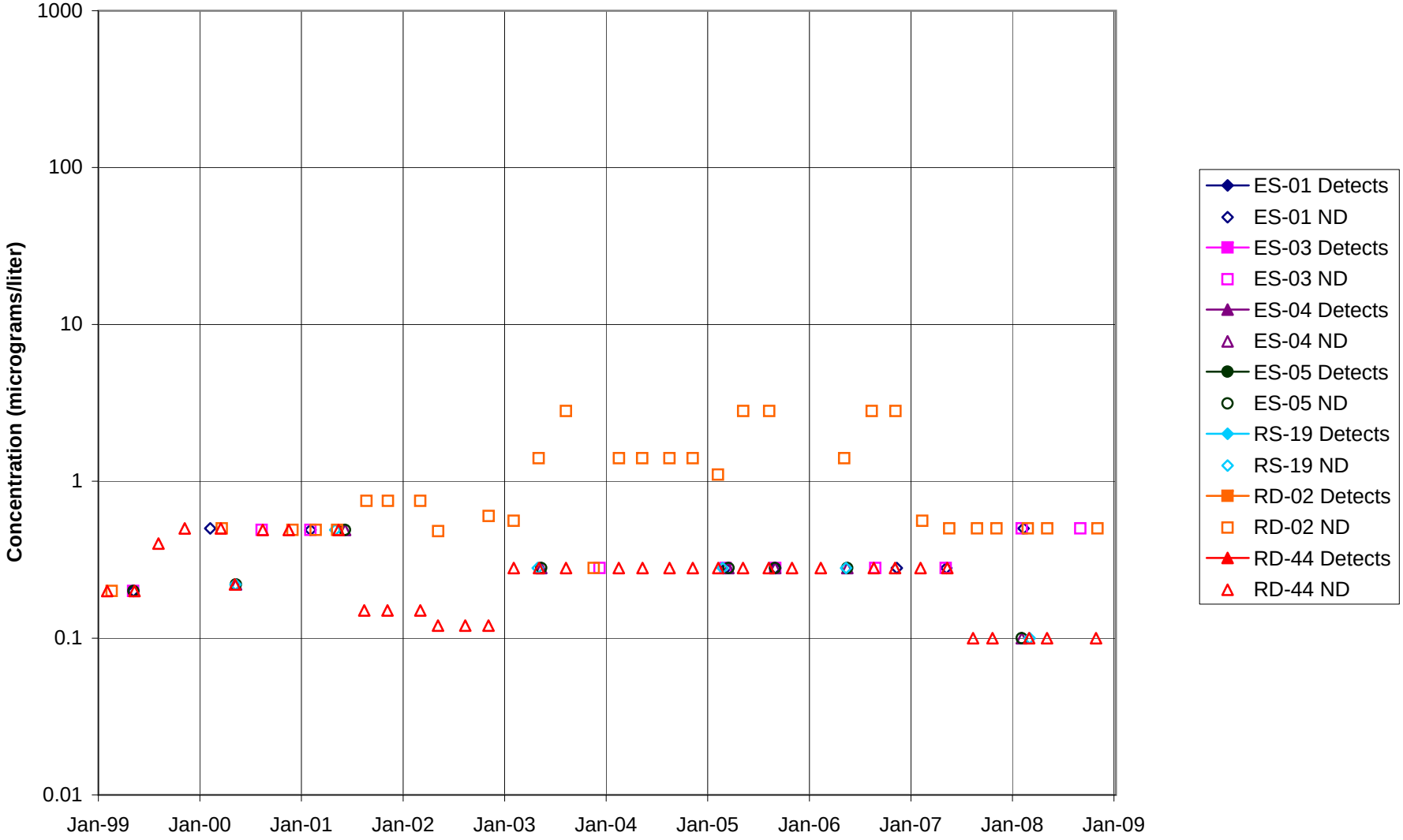


FIGURE F-128. CARBON TETRACHLORIDE in ECL AREA WELLS

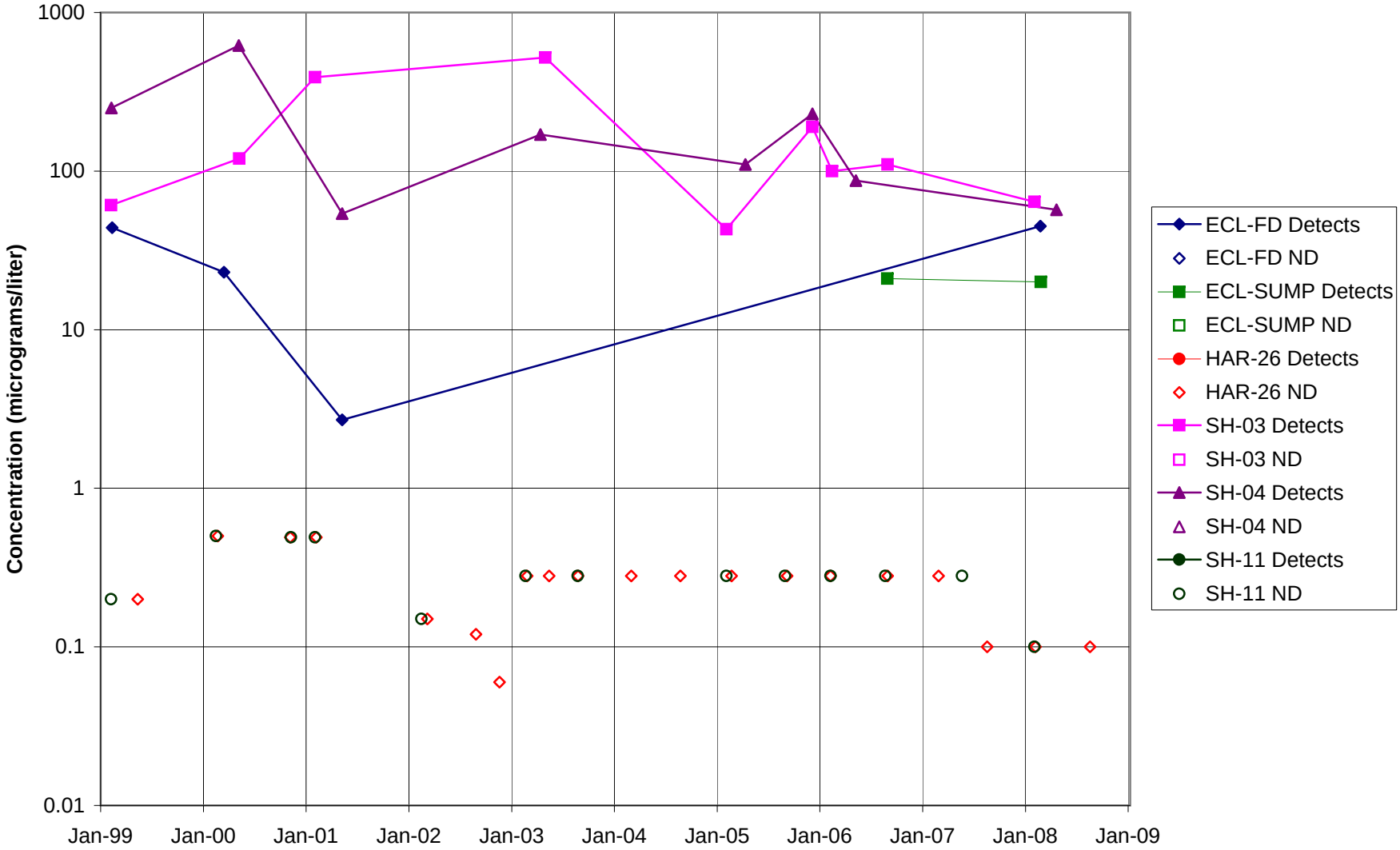


FIGURE F-129. CARBON TETRACHLORIDE in FORMER LOX PLANT AREA WELLS

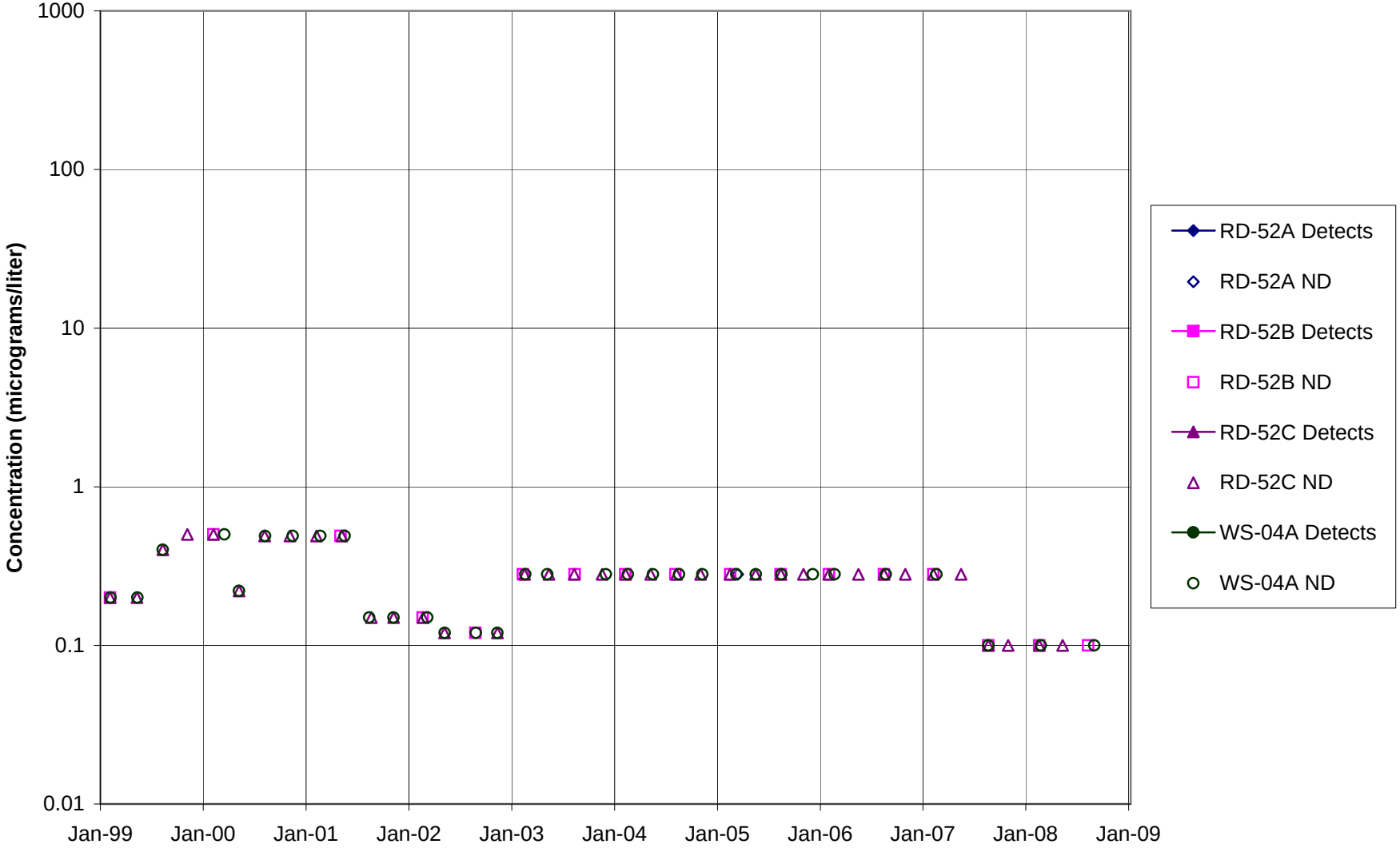


FIGURE F-130. CARBON TETRACHLORIDE in RD-09 AREA WELLS

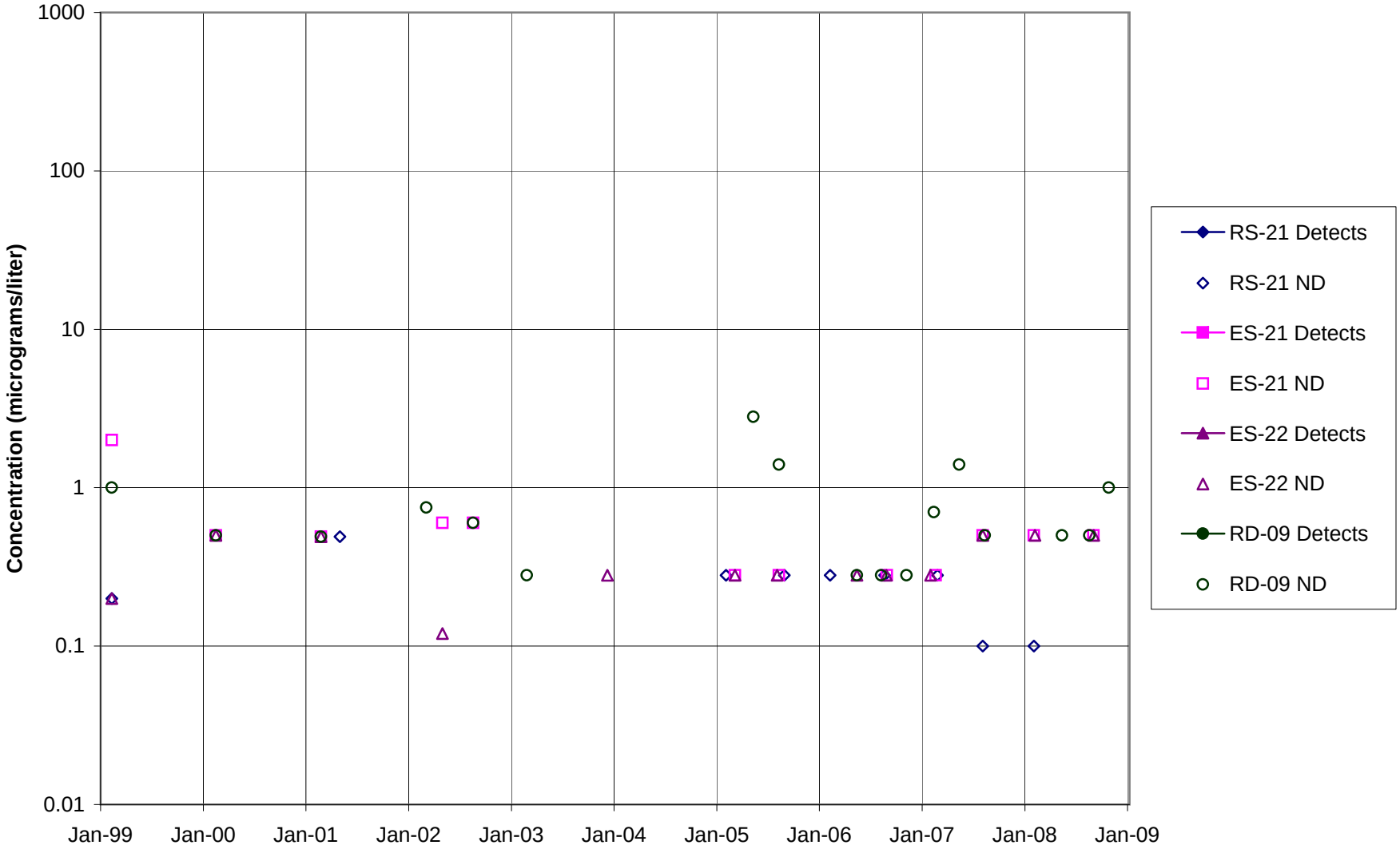


FIGURE F-131. CARBON TETRACHLORIDE in HELIPORT, B/204 WELLS

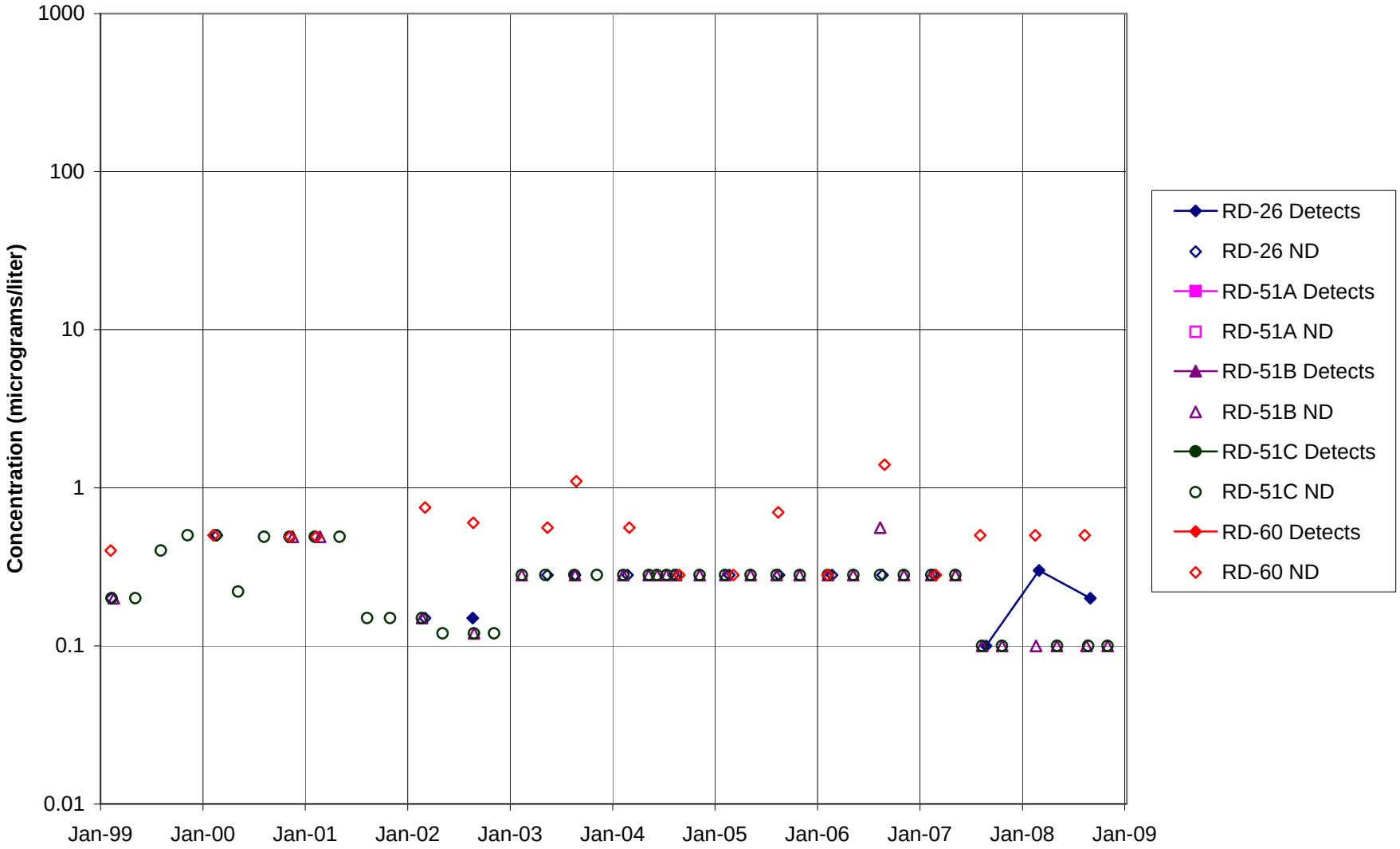


FIGURE F-132. CARBON TETRACHLORIDE in ALFA / BRAVO AREA WELLS

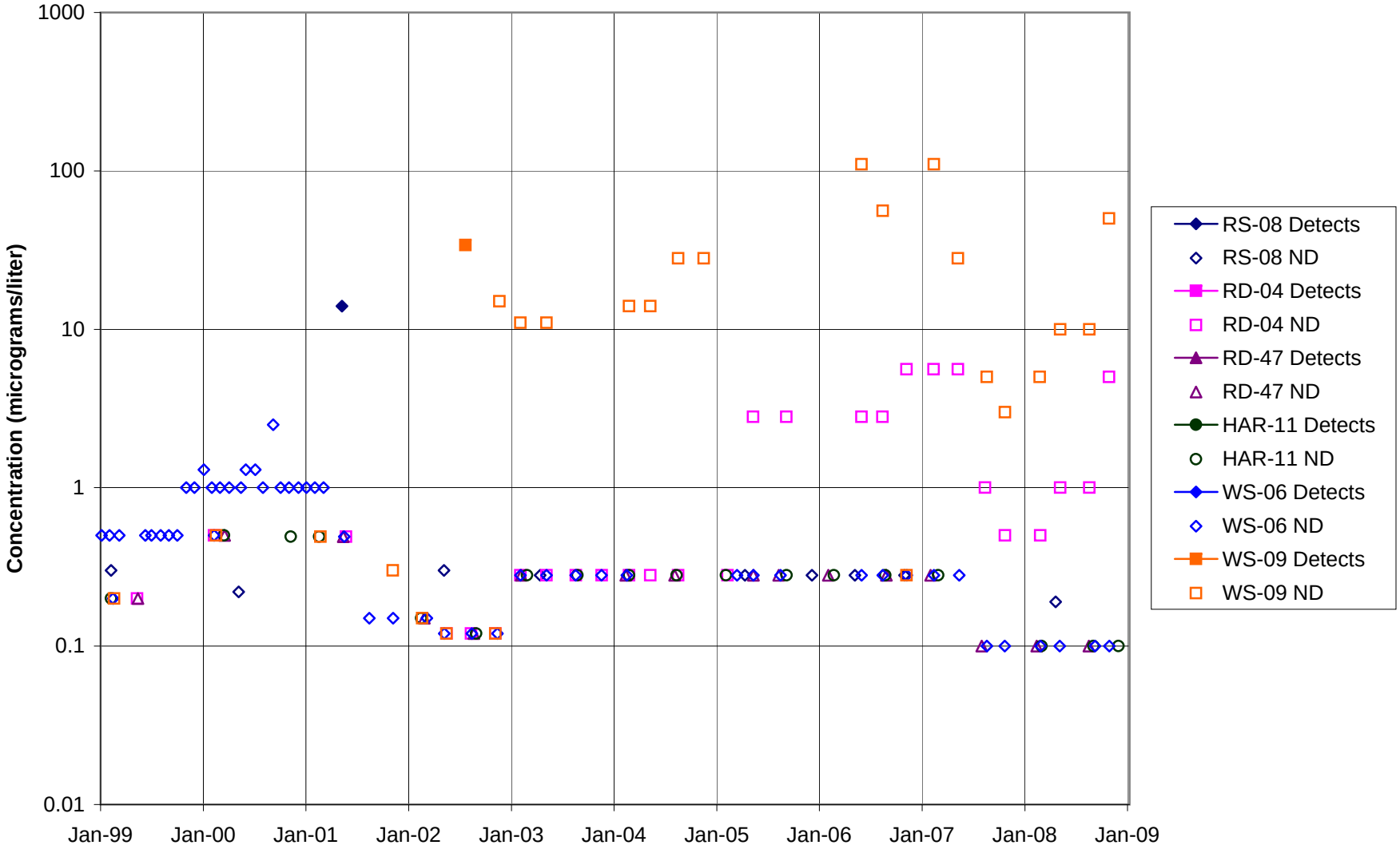


FIGURE F-133. CARBON TETRACHLORIDE in SPA AREA WELLS

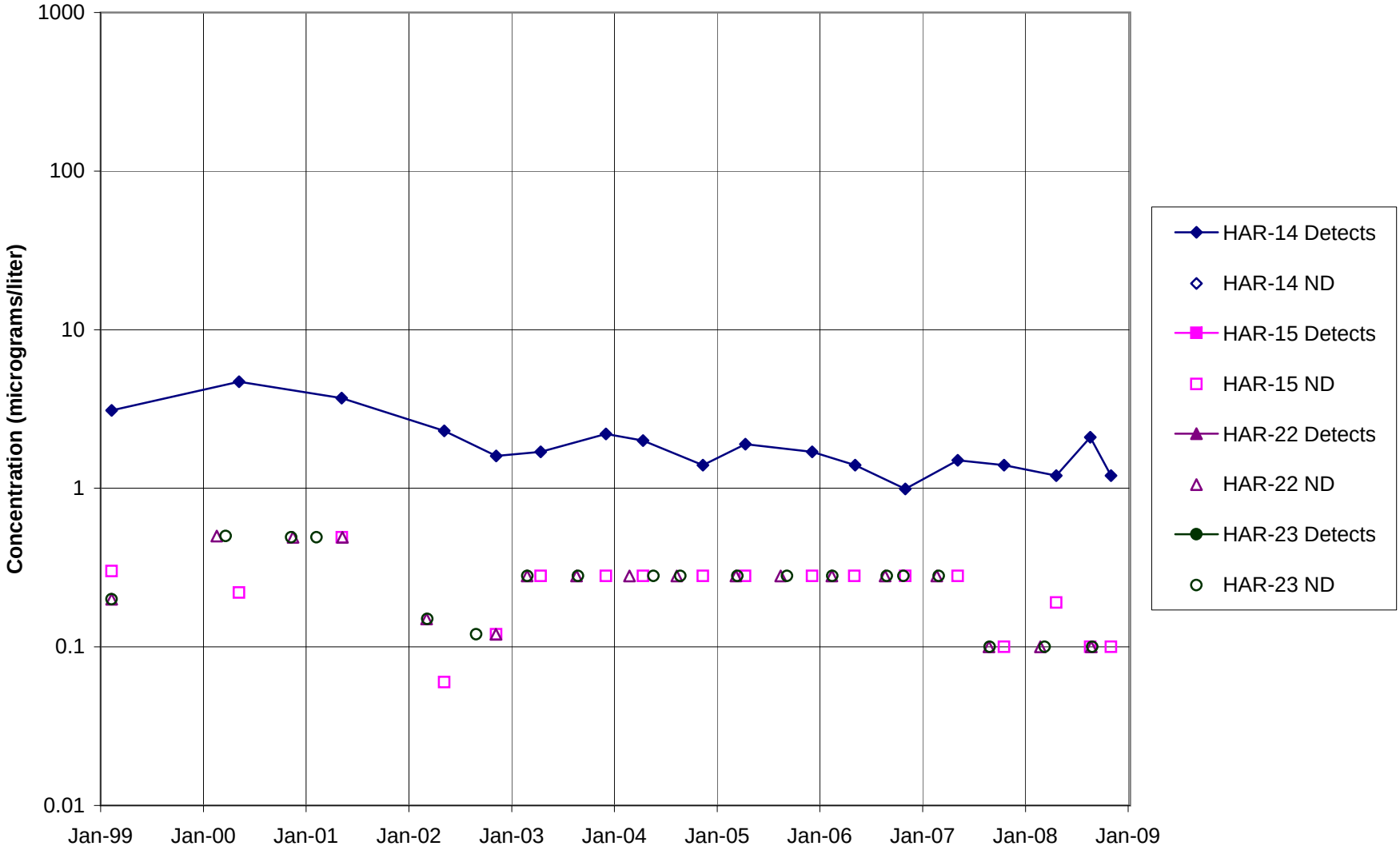


FIGURE F-134. CARBON TETRACHLORIDE in COCA / PLF AREA WELLS

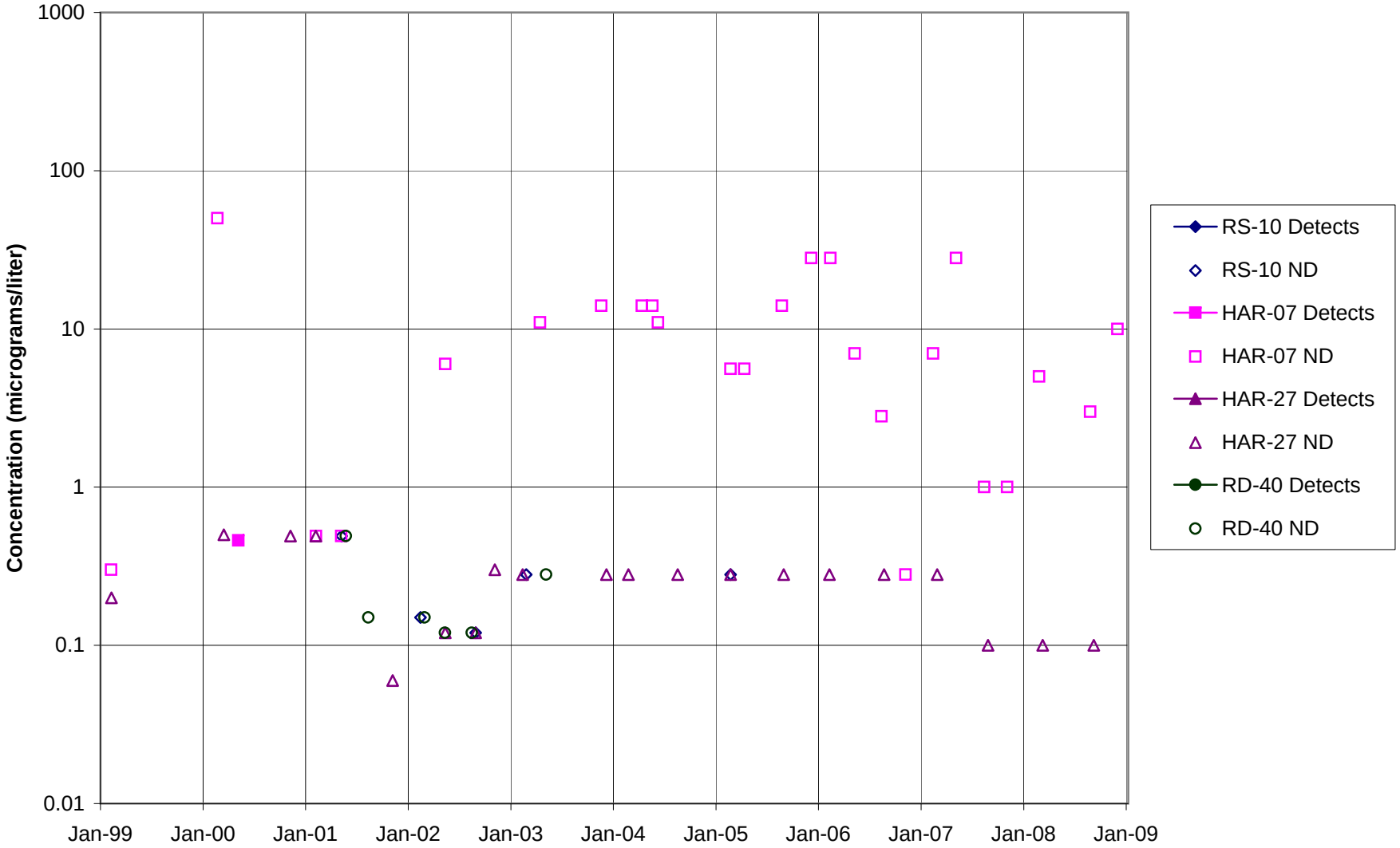


FIGURE F-135. CARBON TETRACHLORIDE in DELTA / BUFFER ZONE AREA WELLS

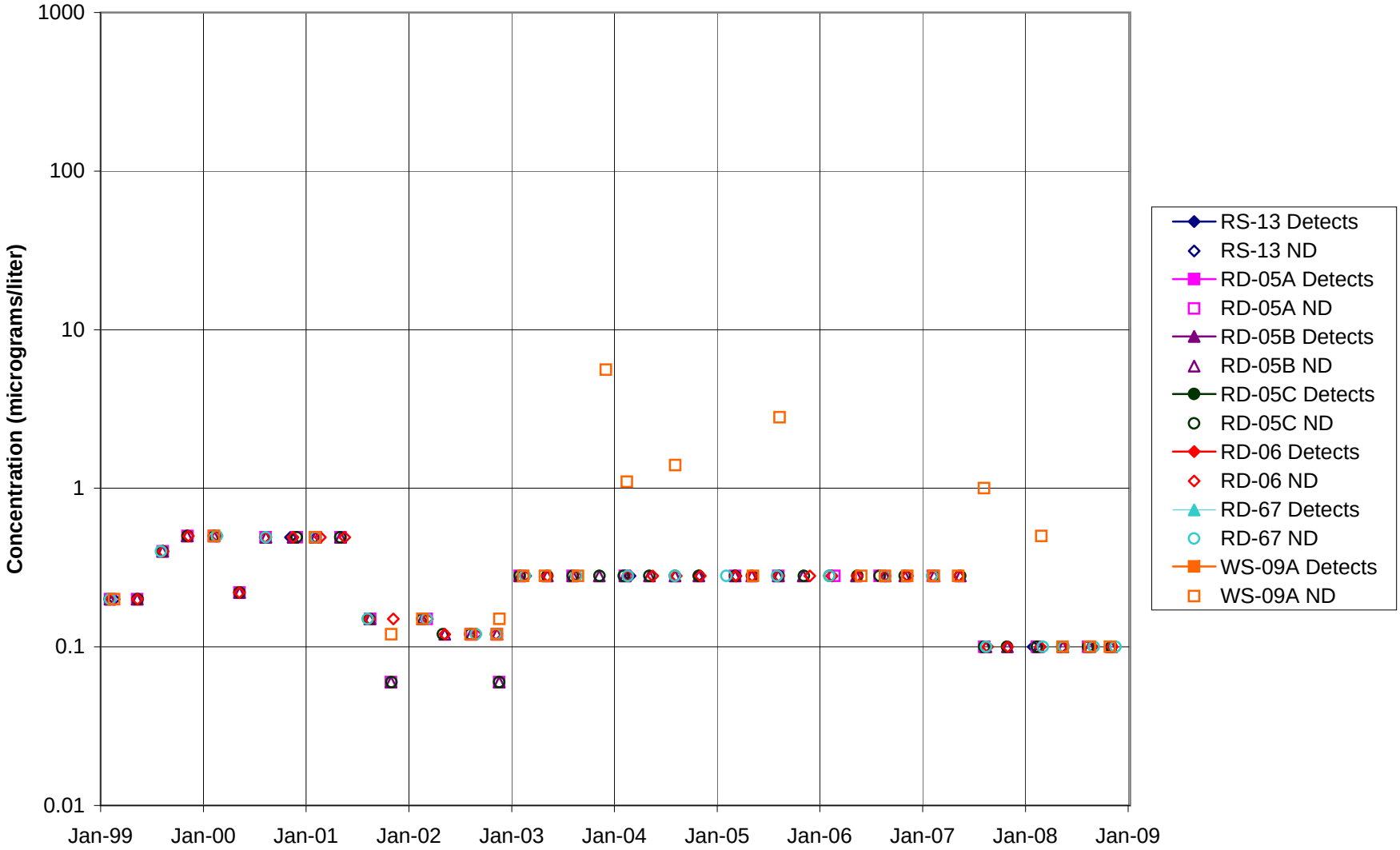


FIGURE F-136. CARBON TETRACHLORIDE in AREA-IV WELLS

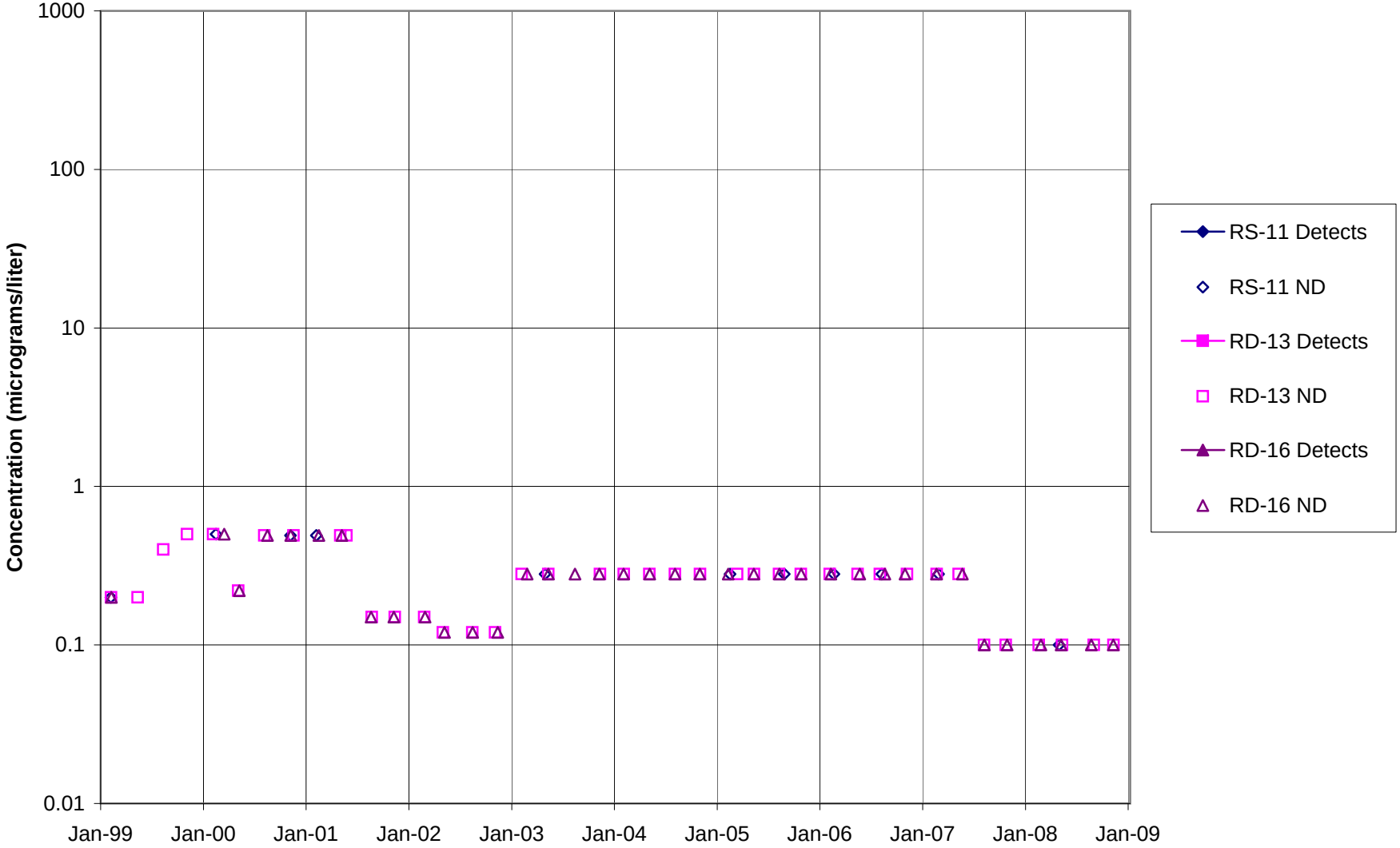


FIGURE F-137. CHLOROFORM in STL-IV AREA SHALLOW WELLS

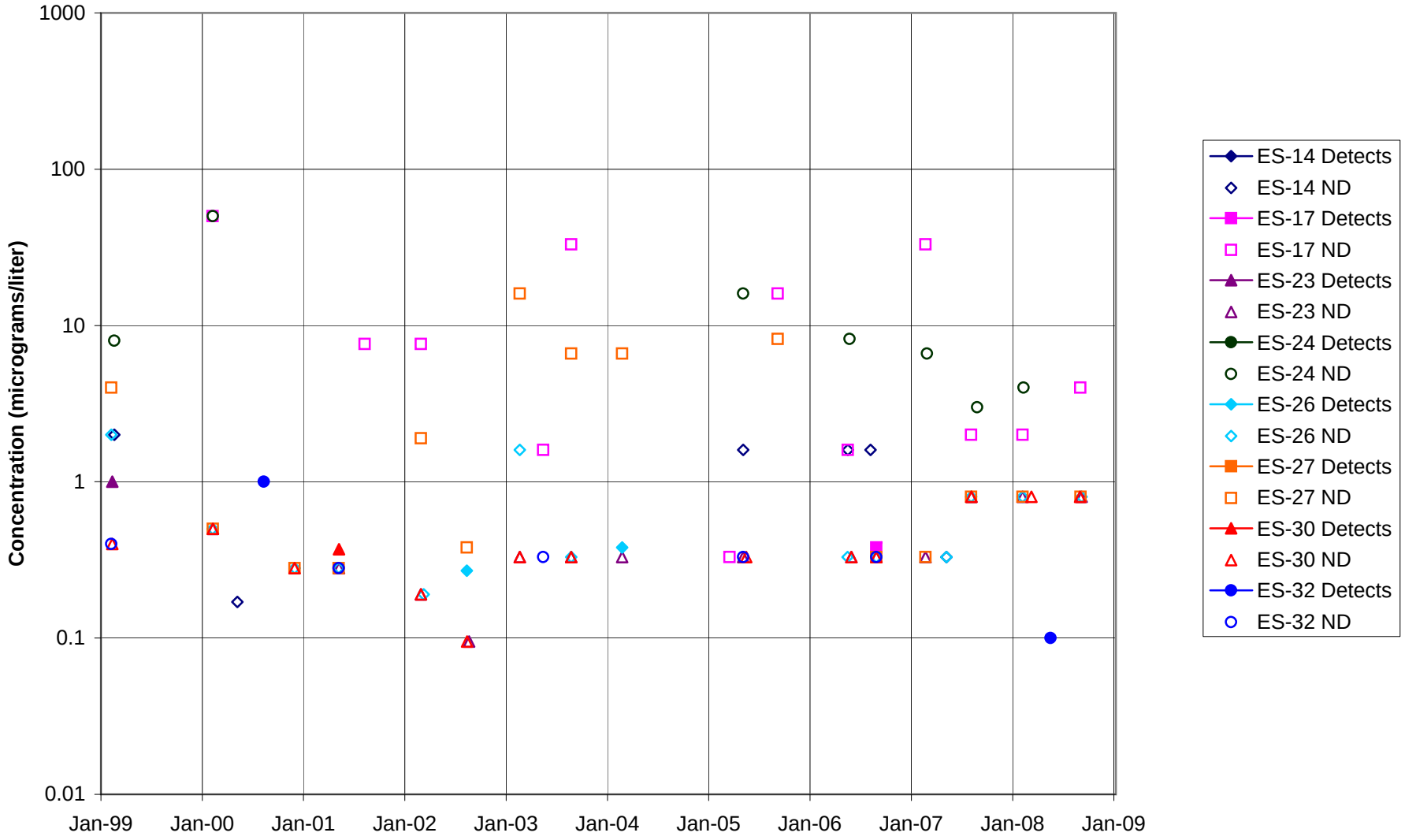


FIGURE F-138. CHLOROFORM in STL-IV AREA CHATSWORTH FORMATION WELLS

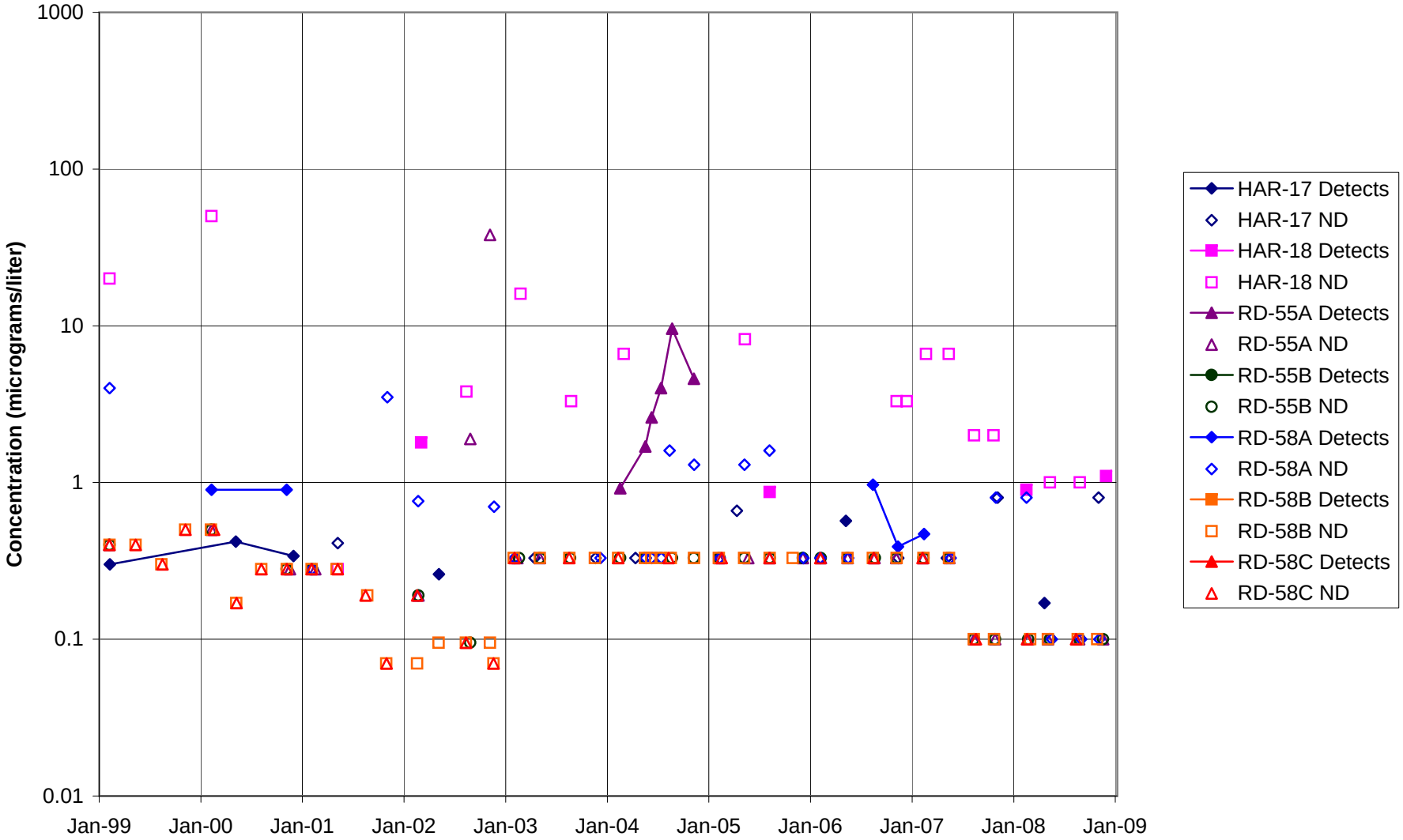


FIGURE F-139. CHLOROFORM in MAIN GATE AREA WELLS - 1

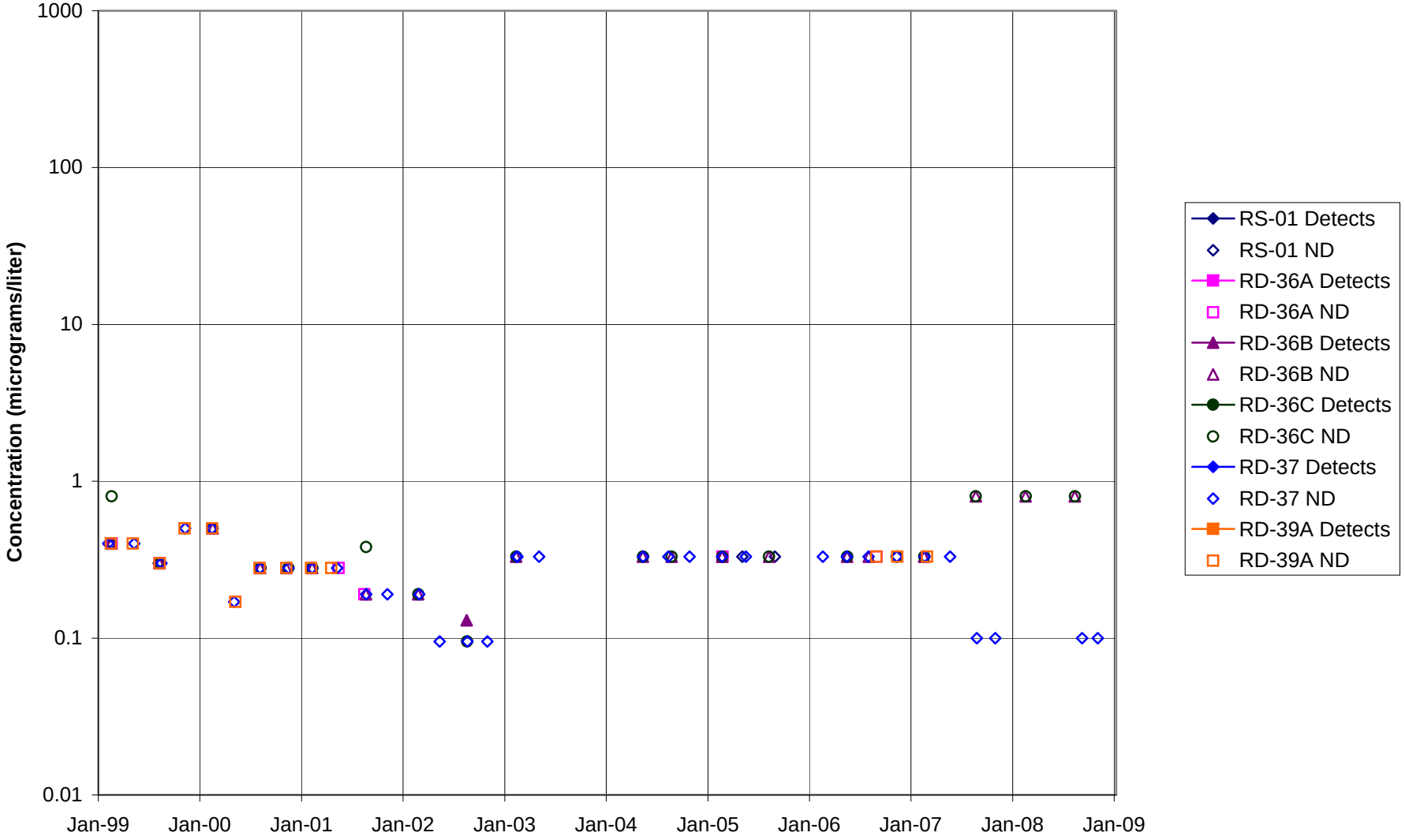


FIGURE F-140. CHLOROFORM in MAIN GATE AREA WELLS - 2

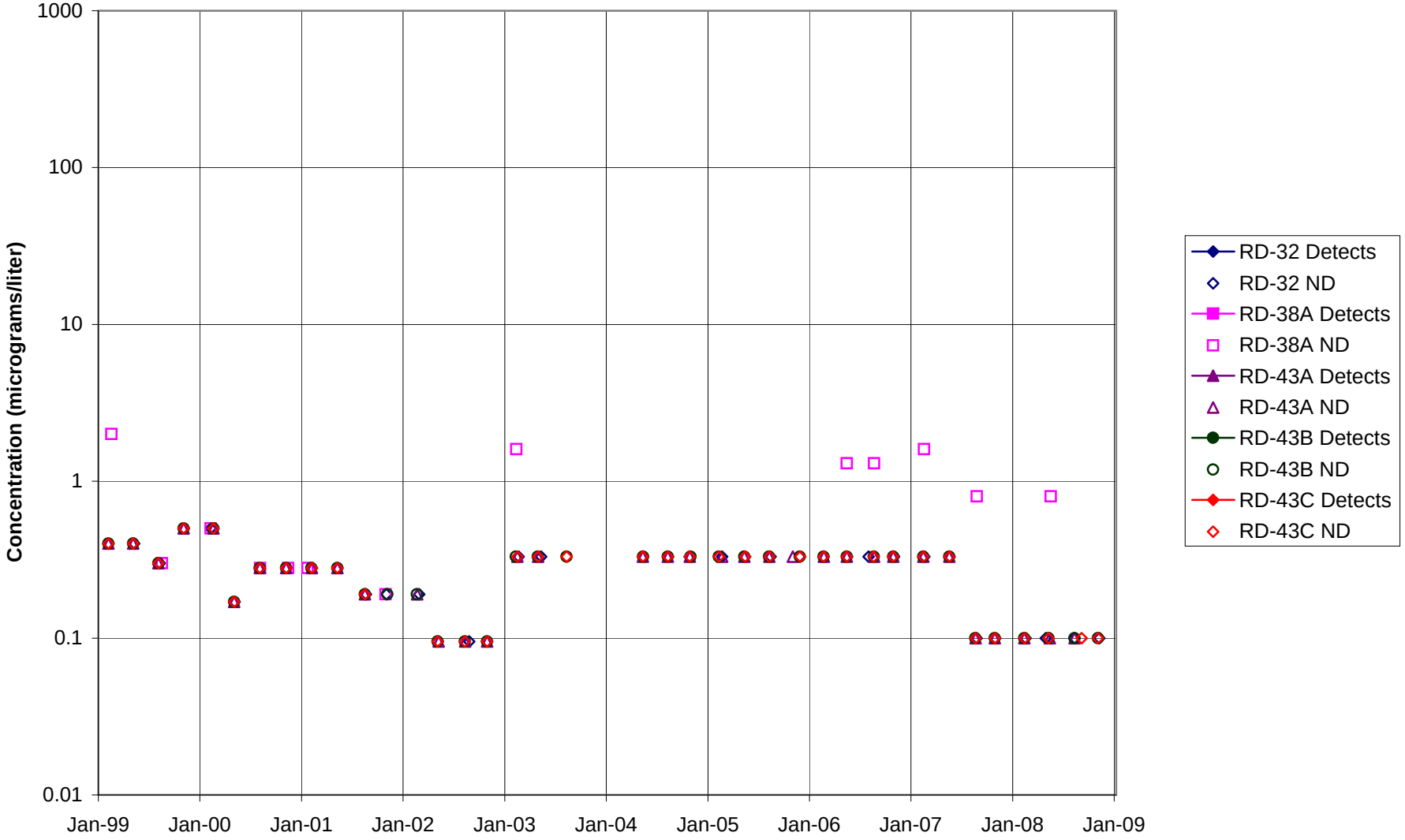


FIGURE F-141. CHLOROFORM in APTF, CANYON, & HAPPY VALLEY AREA WELLS - 1

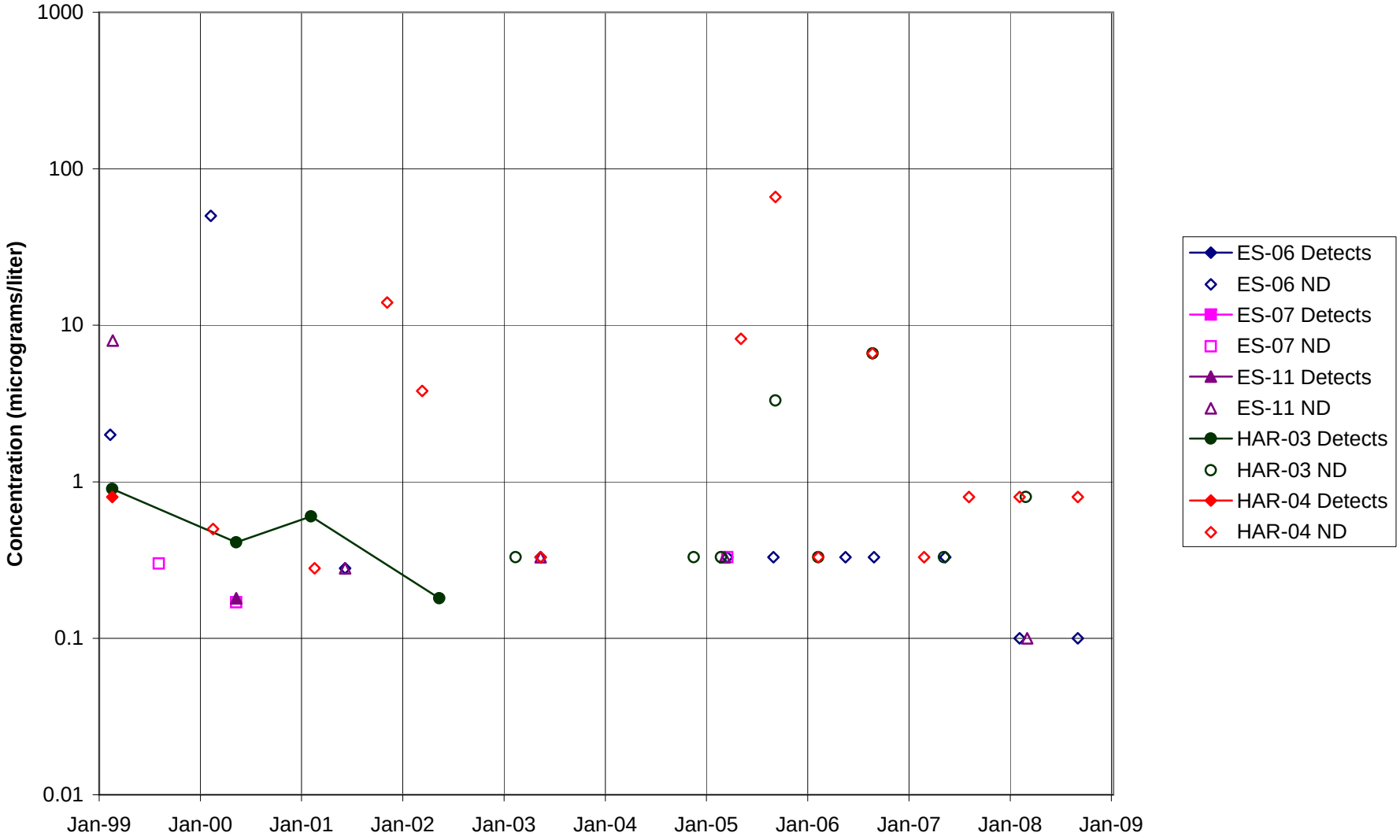


FIGURE F-142. CHLOROFORM in APTF,CANYON, & HAPPY VALLEY AREA WELLS - 2

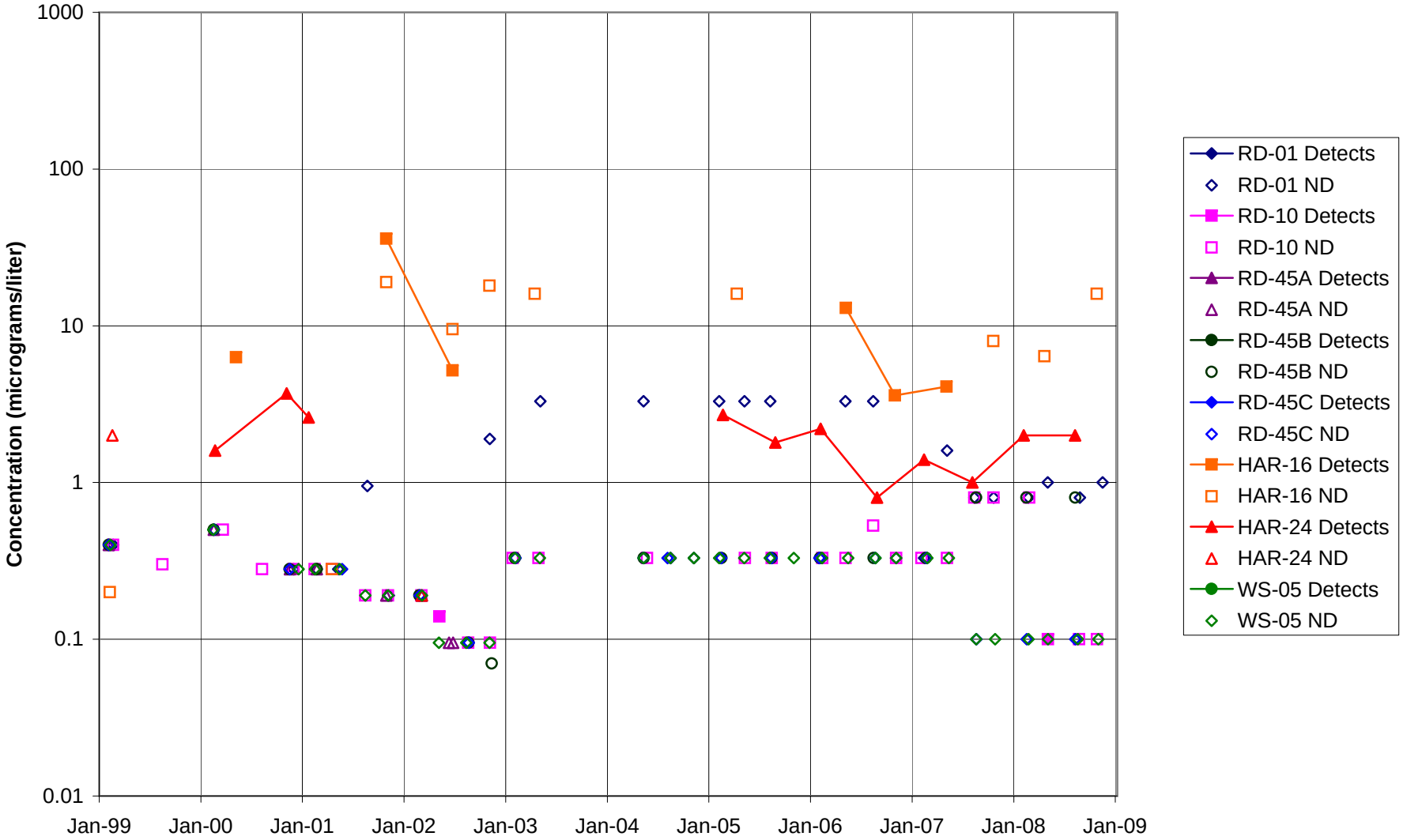


FIGURE F-143. CHLOROFORM in CTL-III / PERIMETER POND AREA WELLS

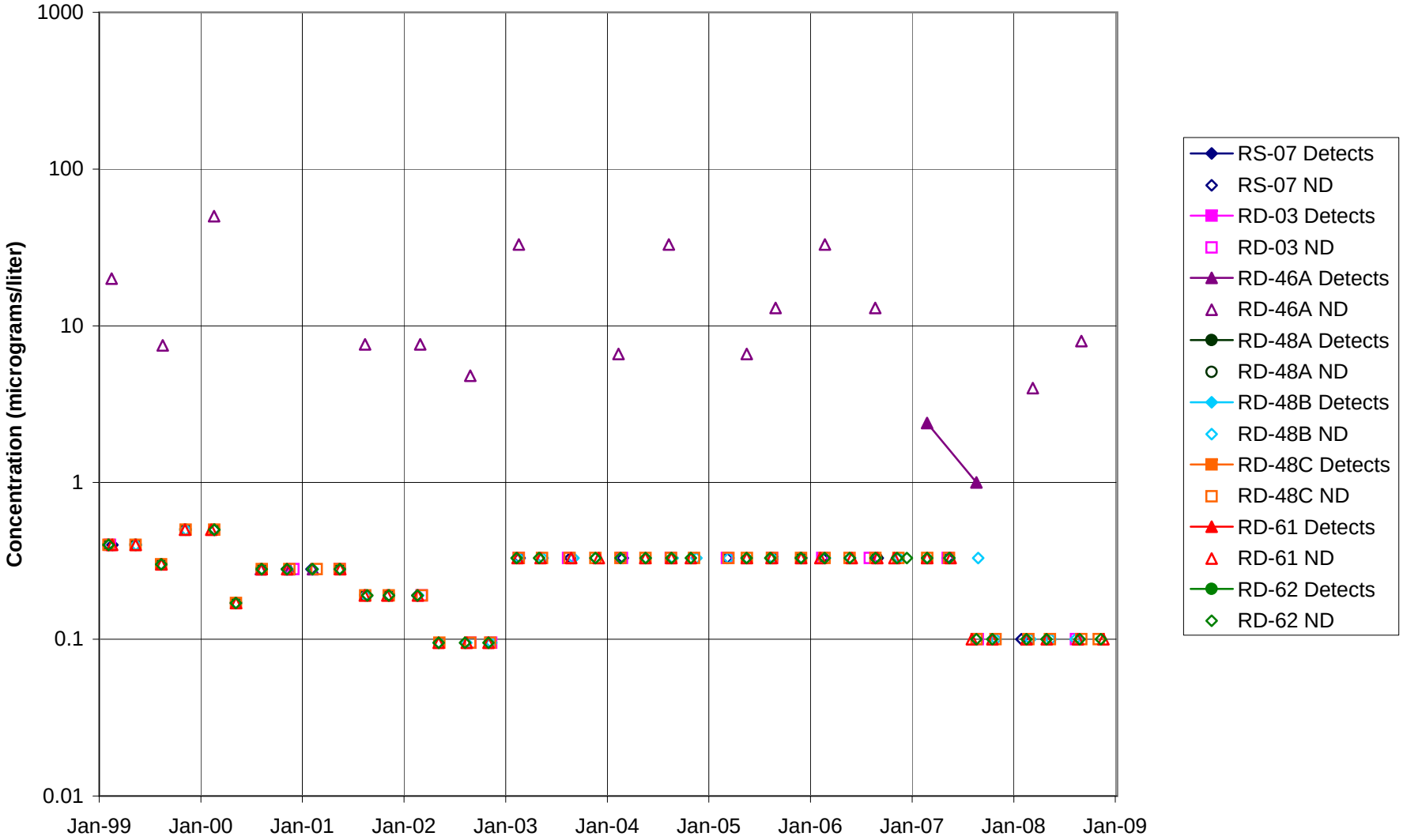


FIGURE F-144. CHLOROFORM in BOWL AREA WELLS

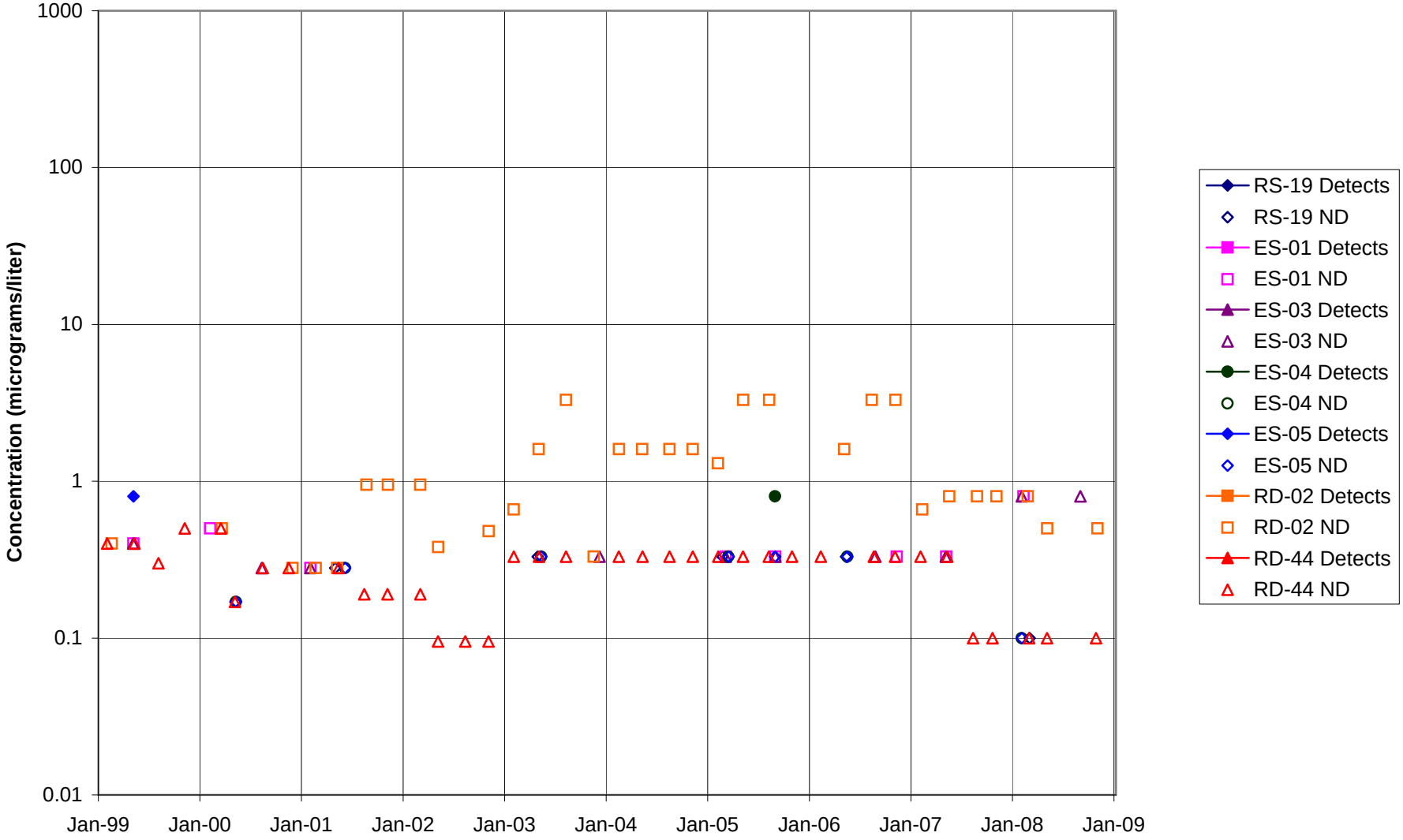


FIGURE F-145. CHLOROFORM in ECL AREA WELLS

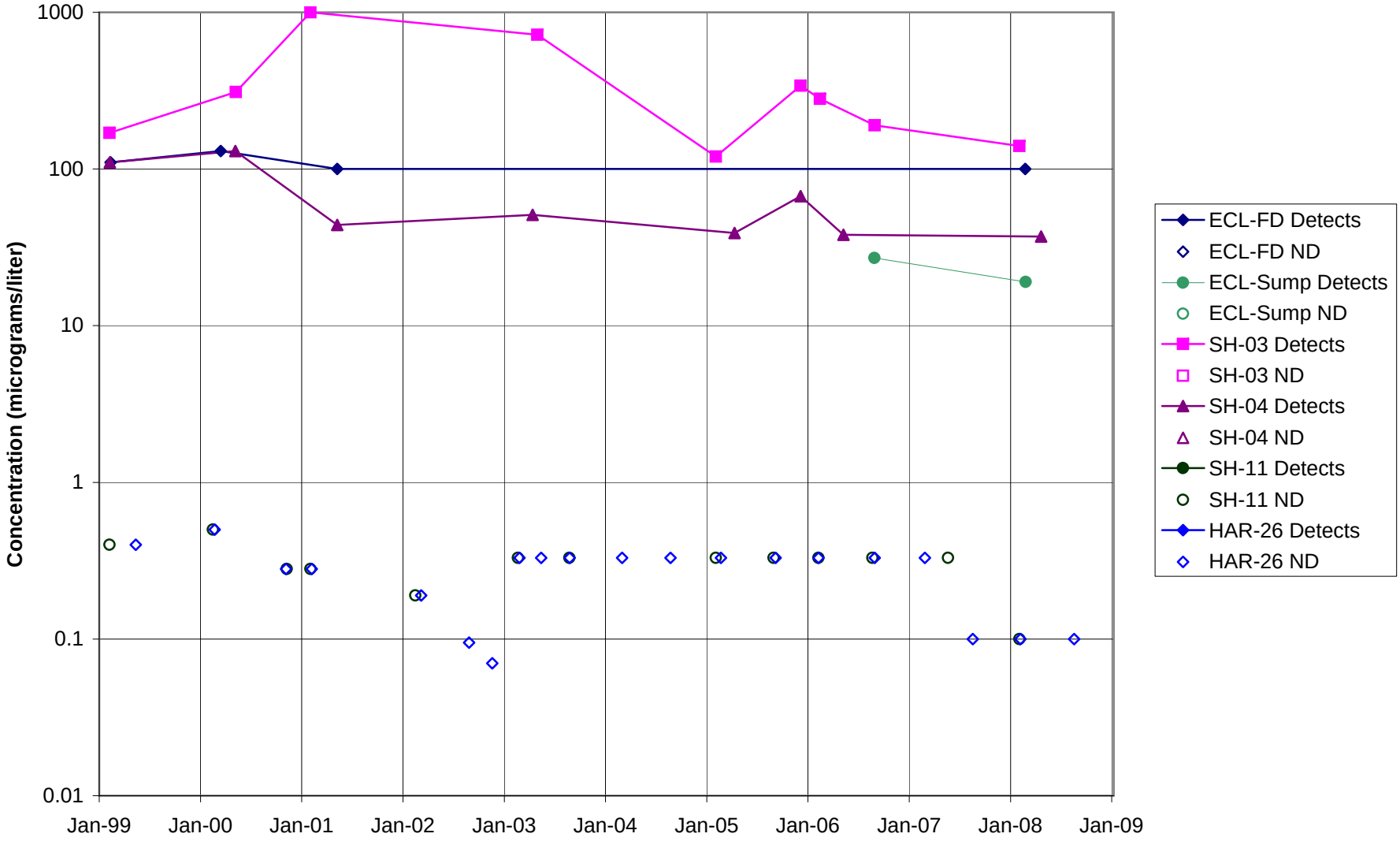


FIGURE F-146. CHLOROFORM in FORMER LOX PLANT AREA WELLS

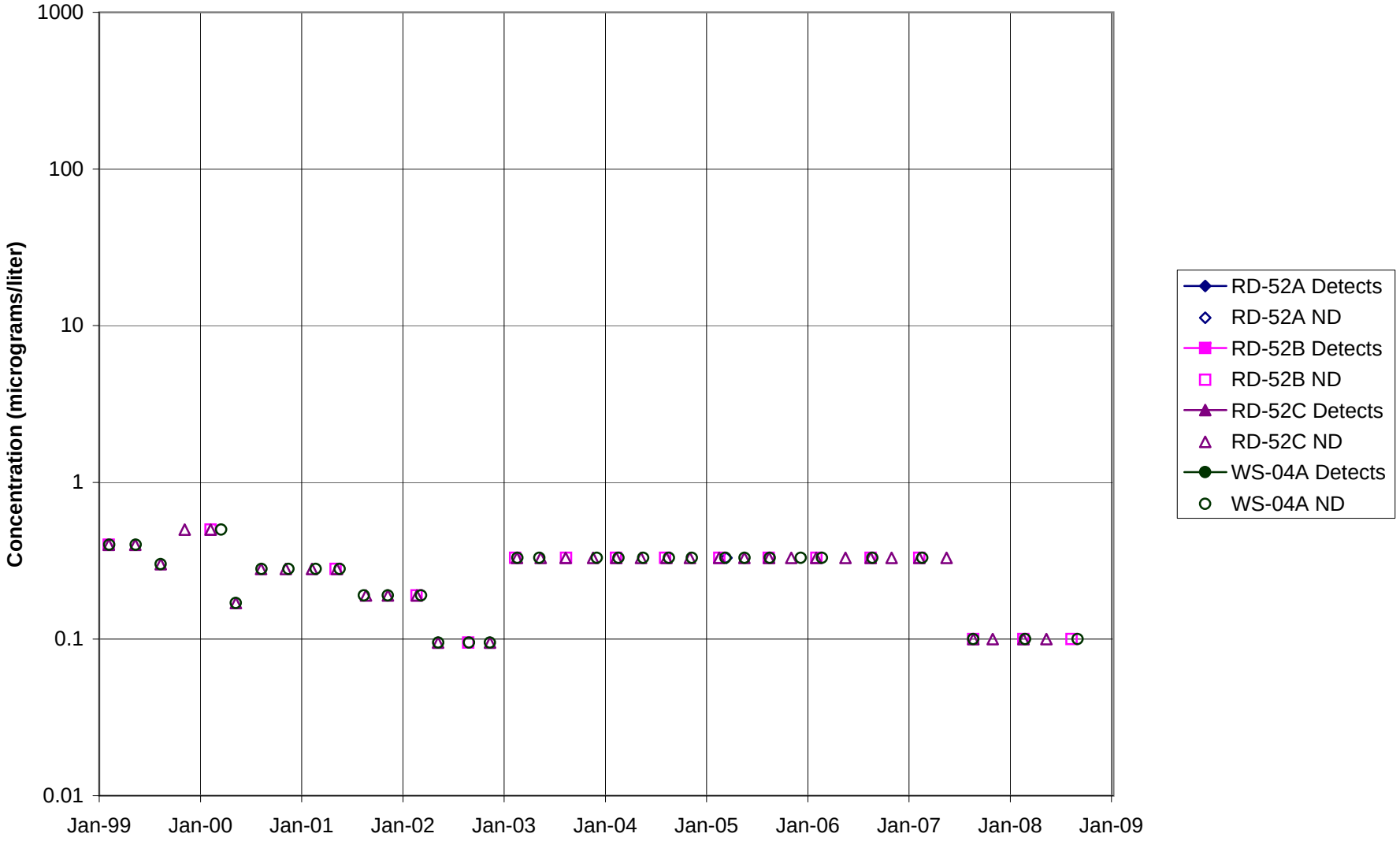


FIGURE F-147. CHLOROFORM in RD-09 AREA WELLS

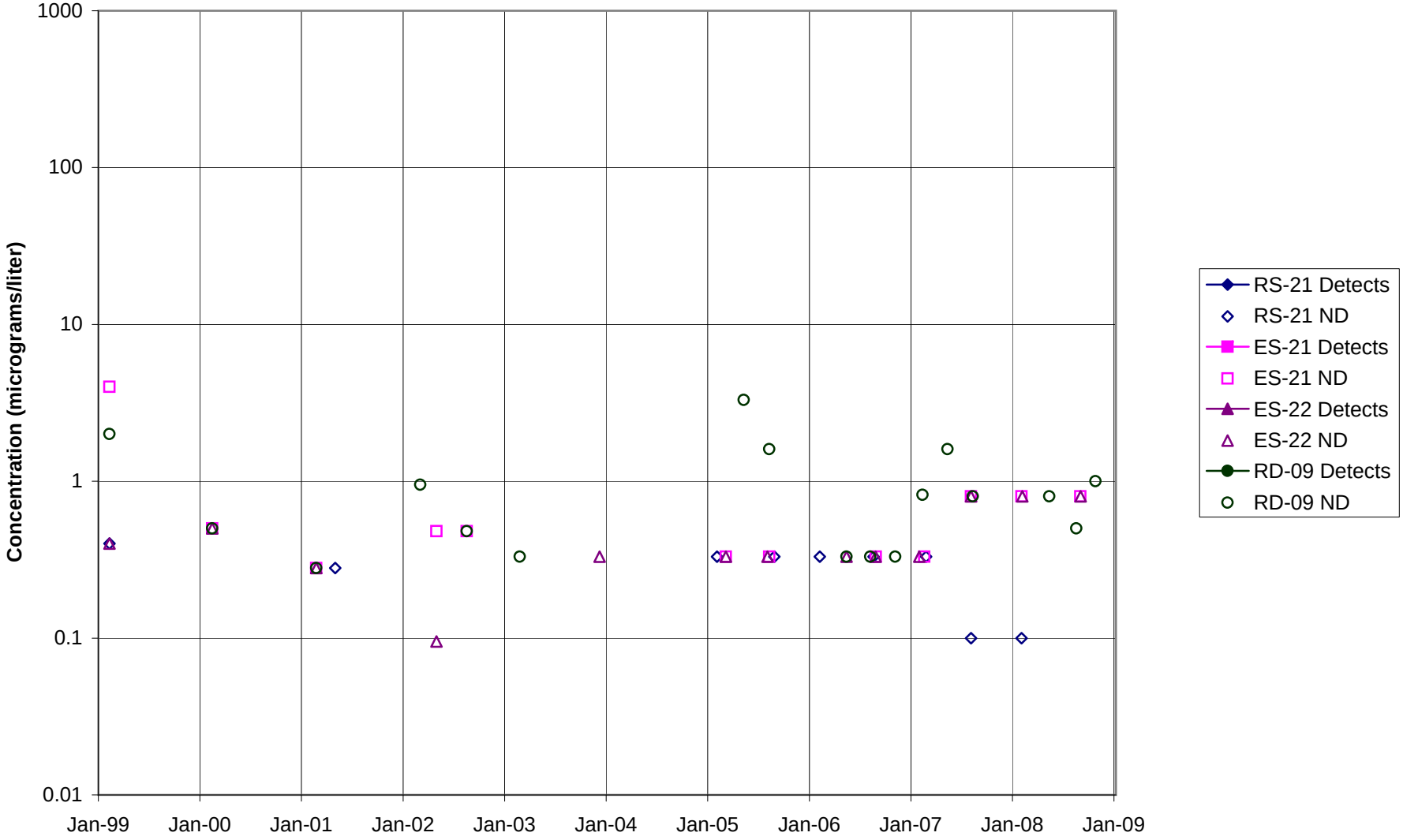


FIGURE F-148. CHLOROFORM in HELIPORT, B/204 AREA WELLS

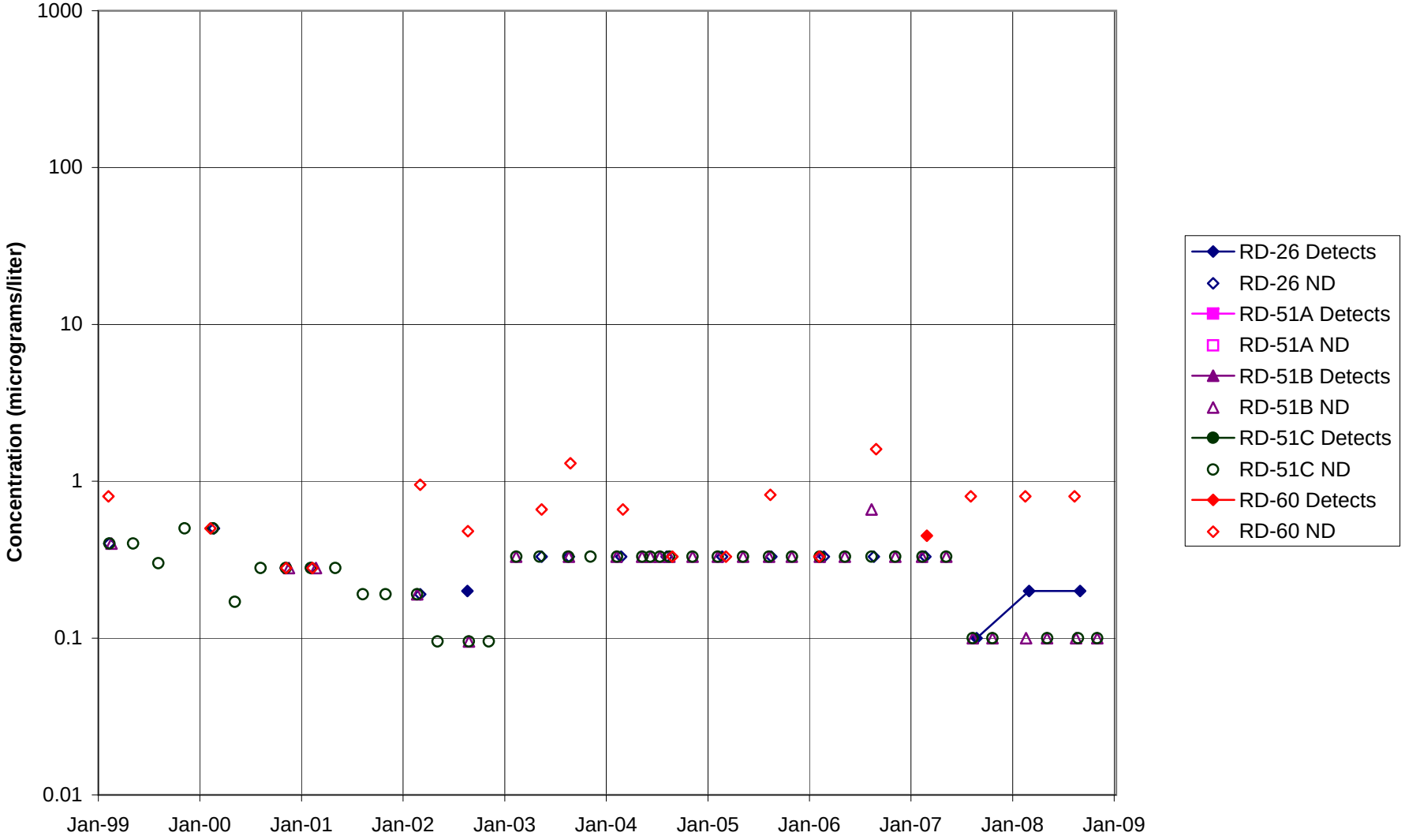


FIGURE F-149. CHLOROFORM in ALFA / BRAVO AREA WELLS

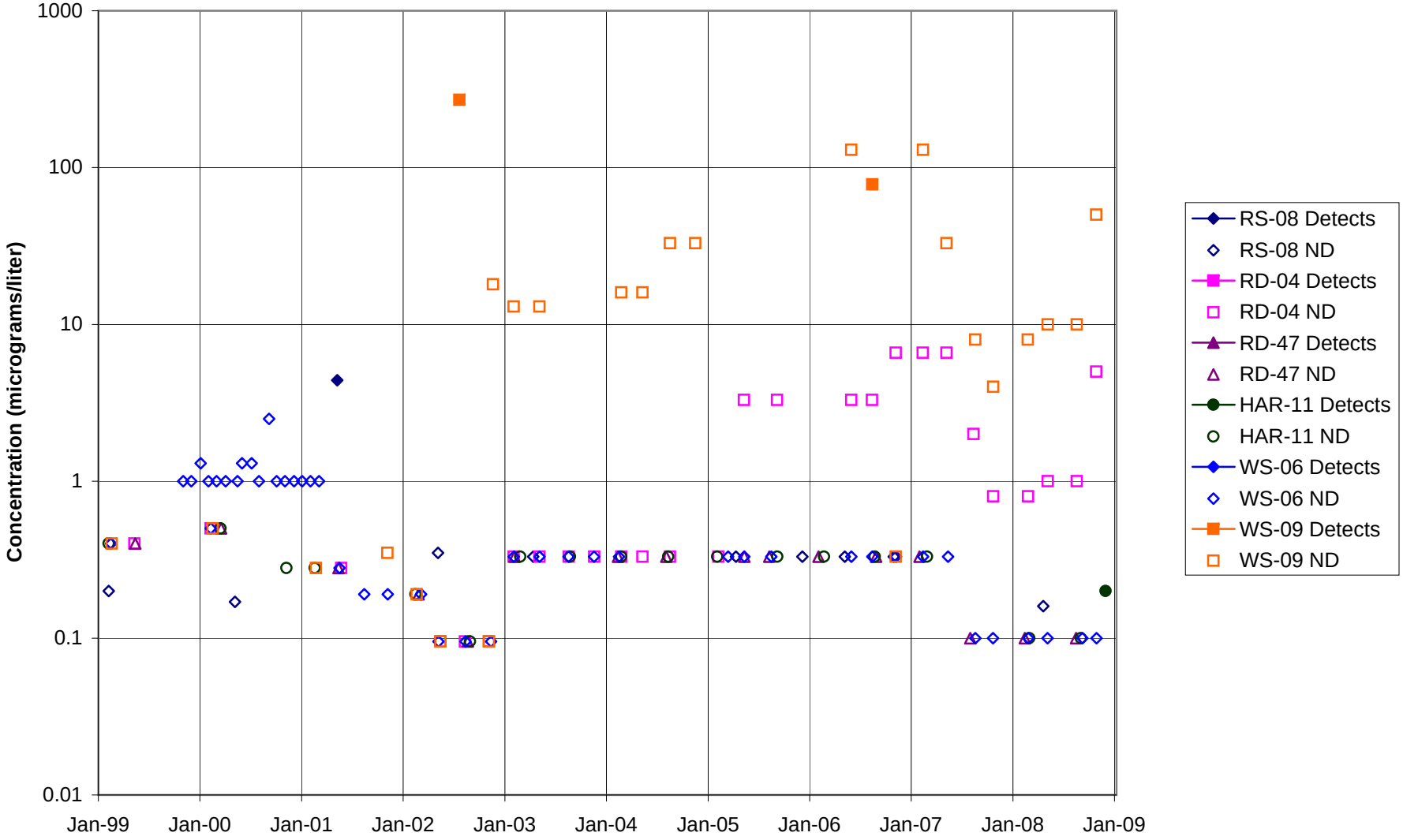


FIGURE F-150. CHLOROFORM in SPA AREA WELLS

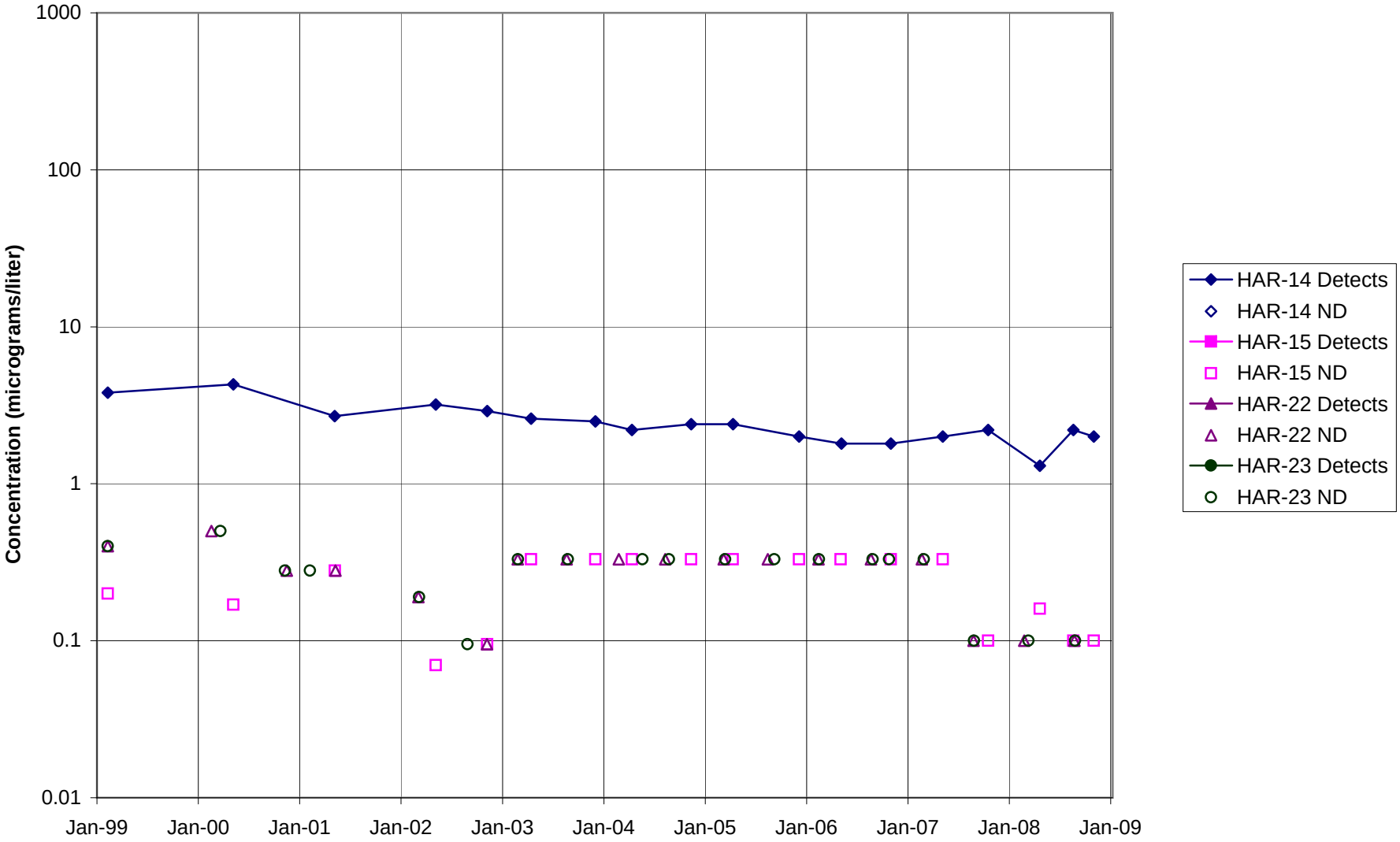


FIGURE F-151. CHLOROFORM in COCA / PLF AREA WELLS

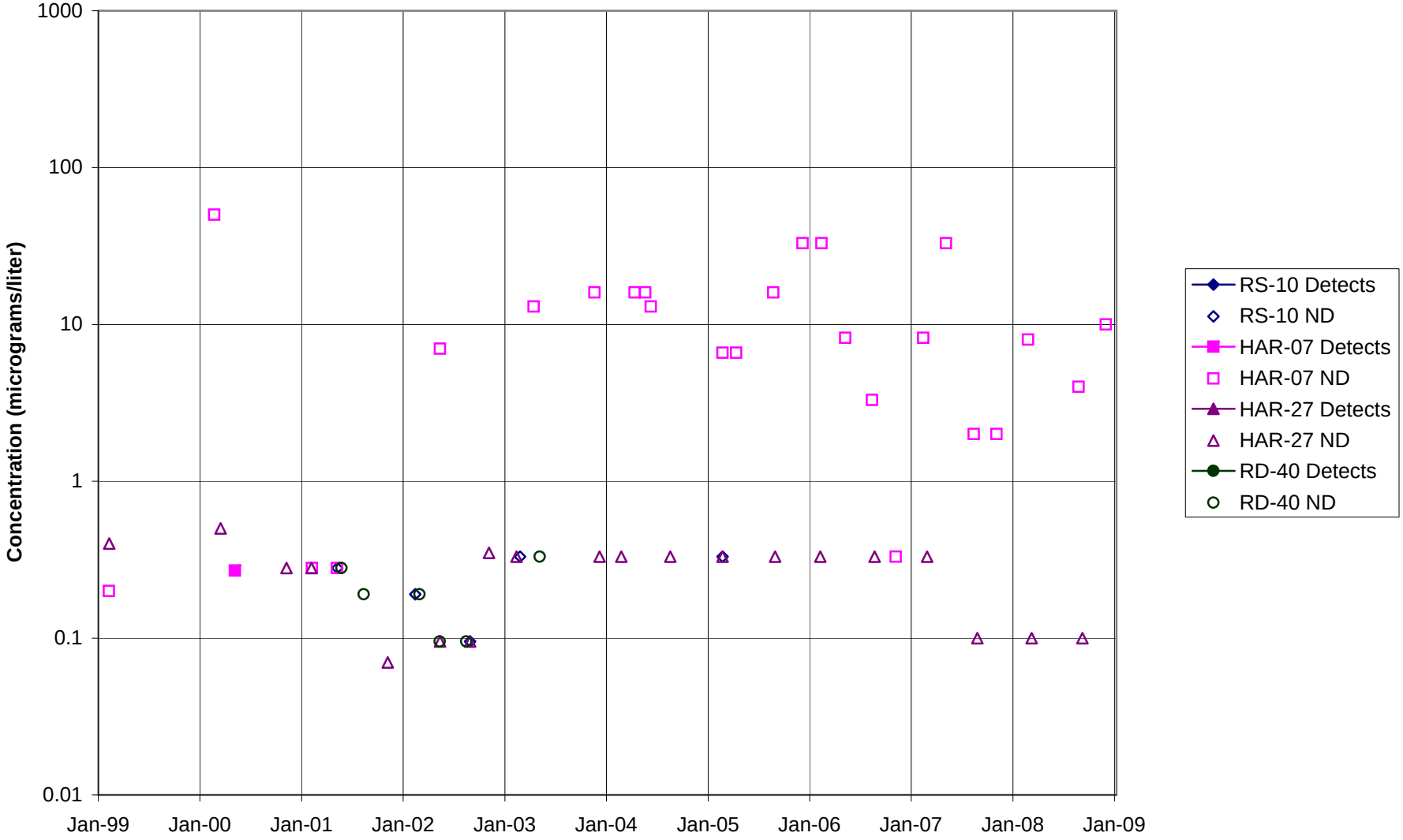


FIGURE F-152. CHLOROFORM in DELTA / BUFFER ZONE AREA WELLS

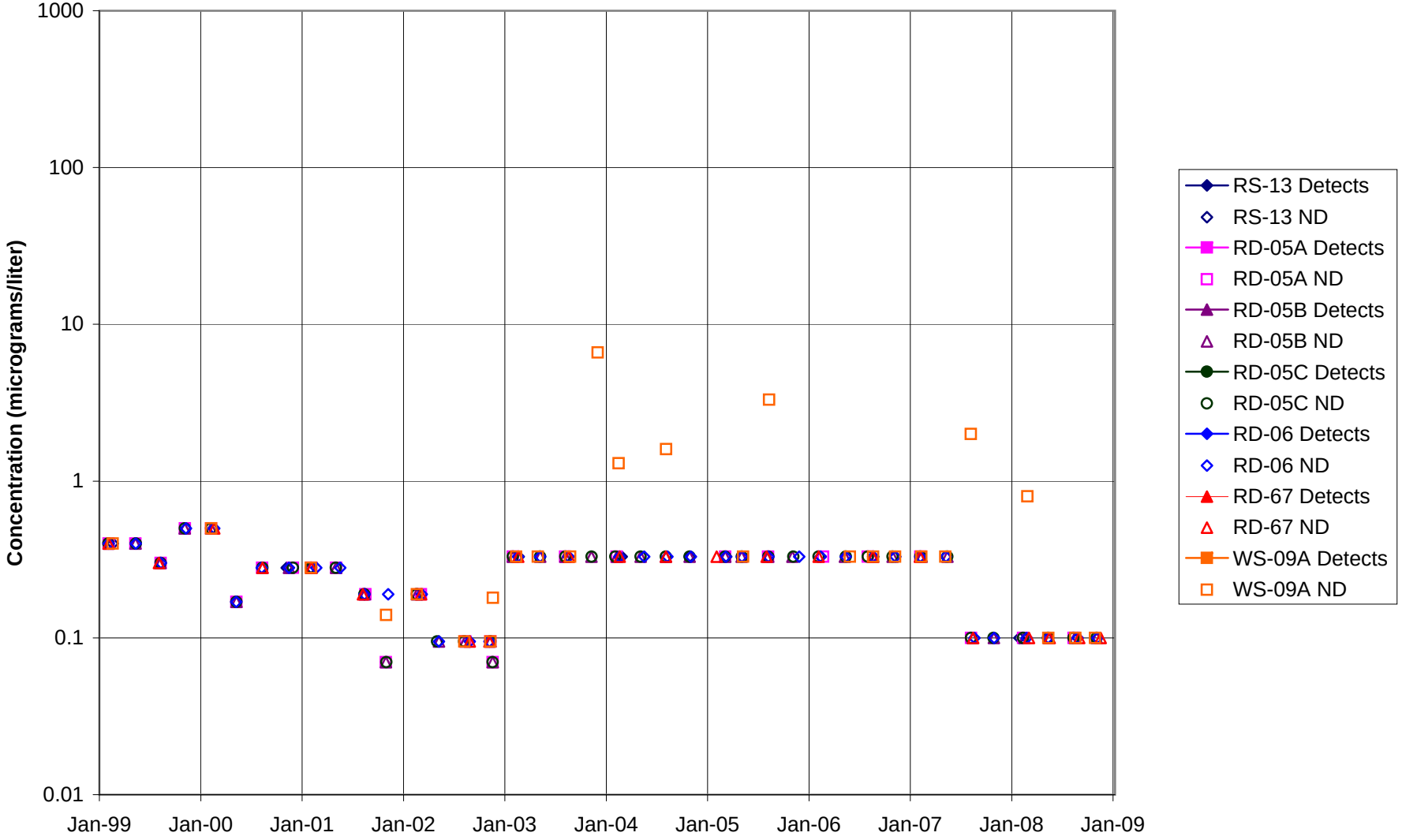


FIGURE F-153. CHLOROFORM in AREA IV WELLS

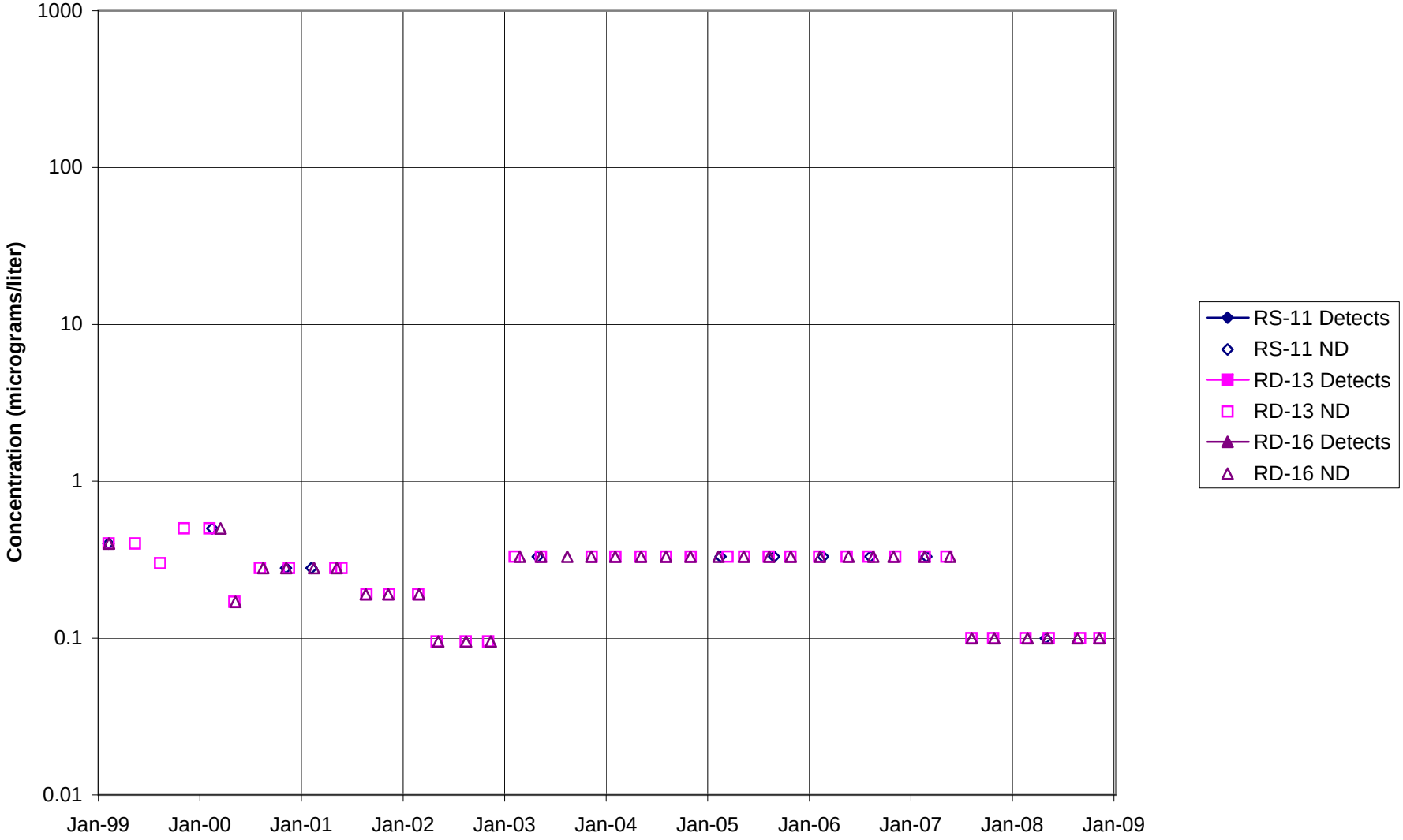


FIGURE F-154. CIS-1,2-DCE in STL-IV AREA SHALLOW WELLS

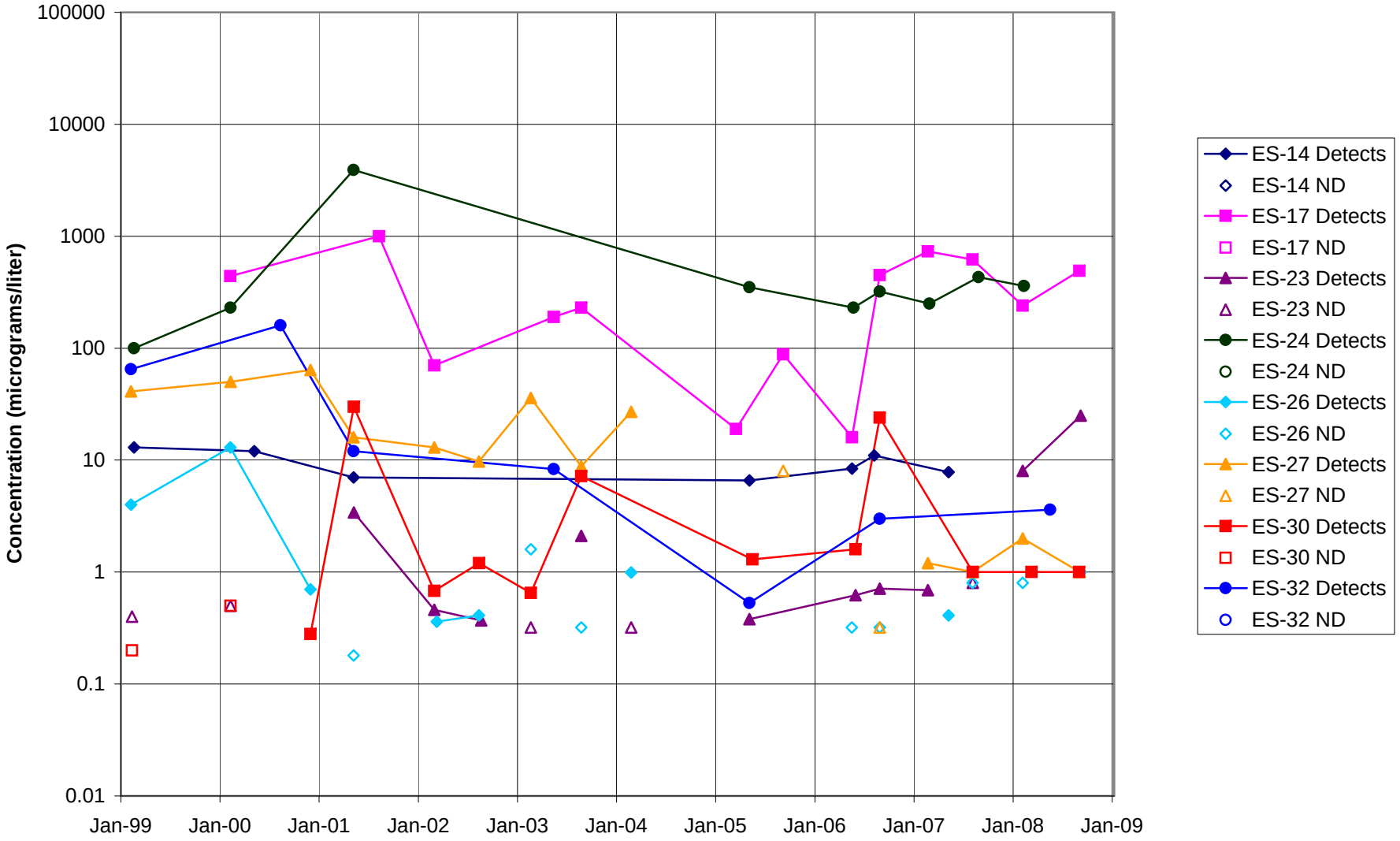


FIGURE F-155. CIS-1,2-DCE in STL-IV AREA CHATSWORTH FORMATION WELLS

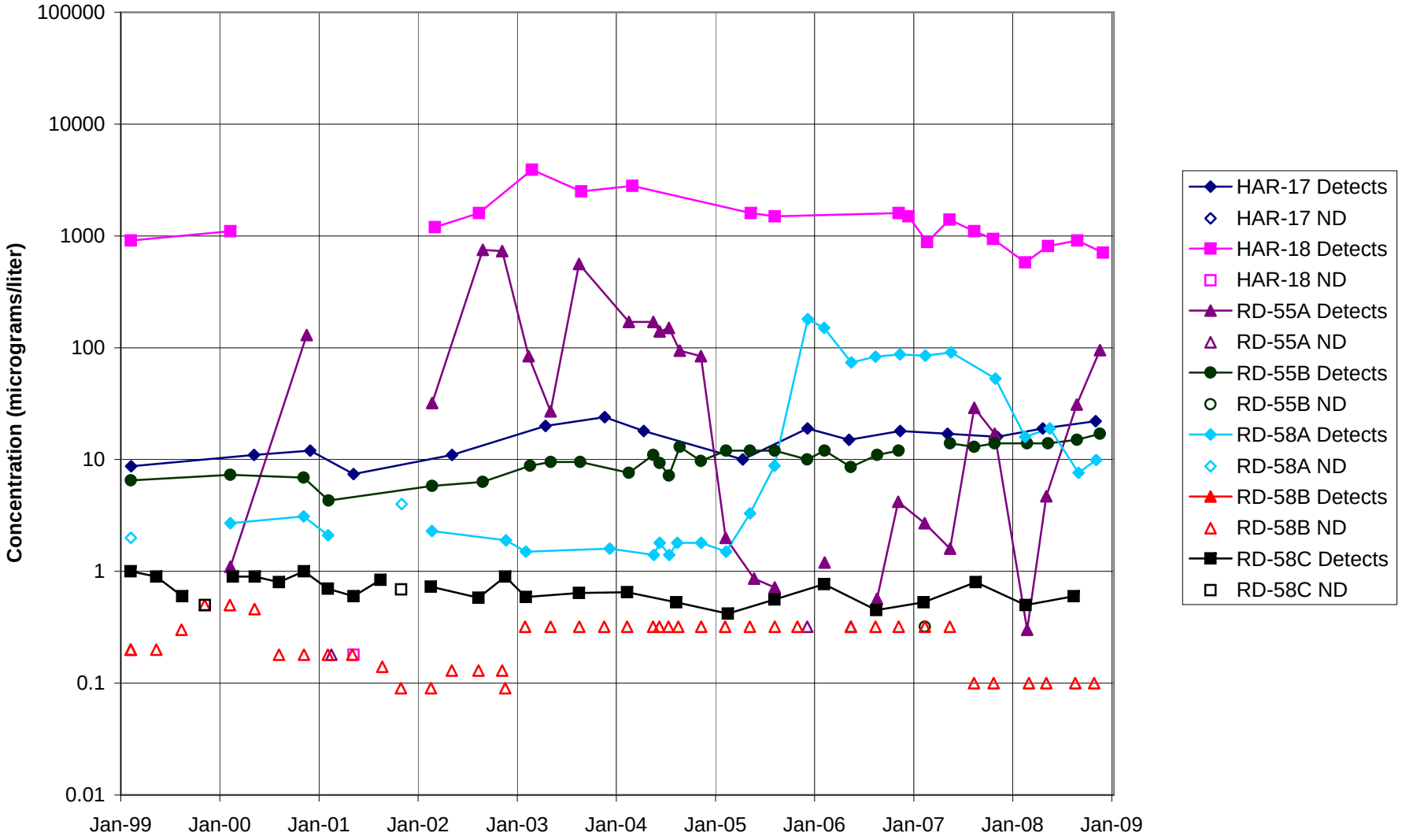


FIGURE F-156. CIS-1,2-DCE in MAIN GATE AREA WELLS - 1

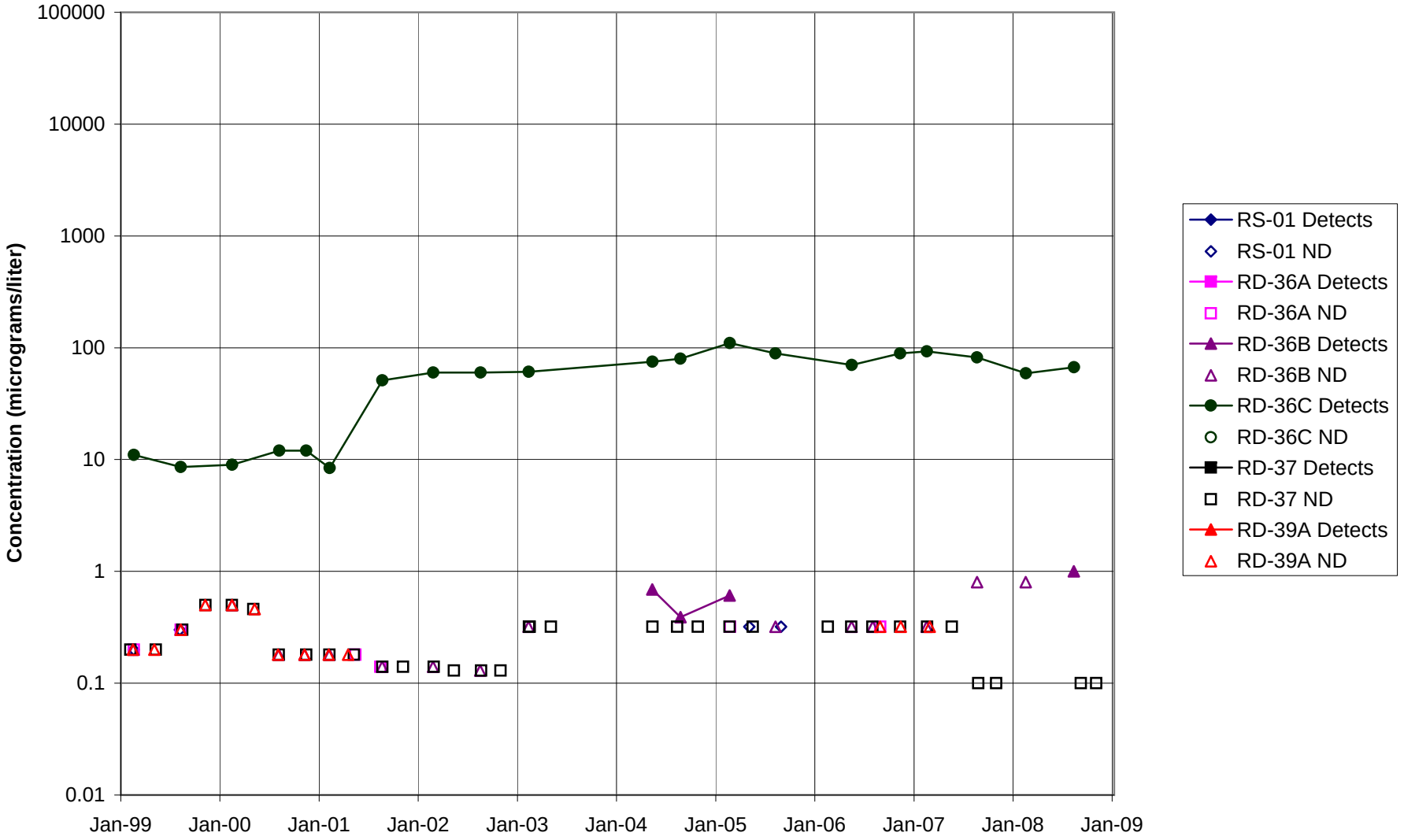


FIGURE F-157. CIS-1,2-DCE in MAIN GATE AREA WELLS - 2

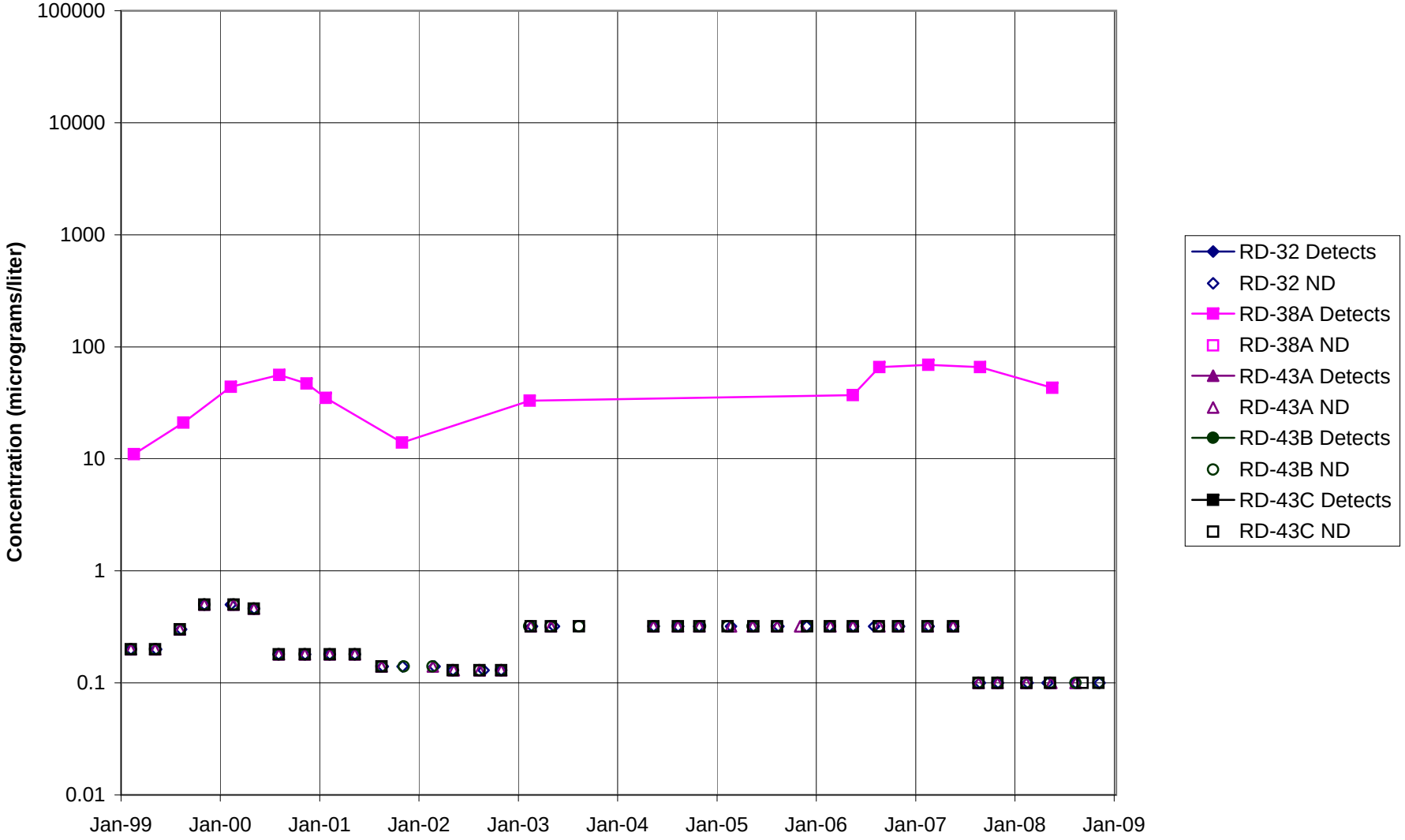


FIGURE F-158. CIS-1,2-DCE in APTF, CANYON & HAPPY VALLEY AREA WELLS -1

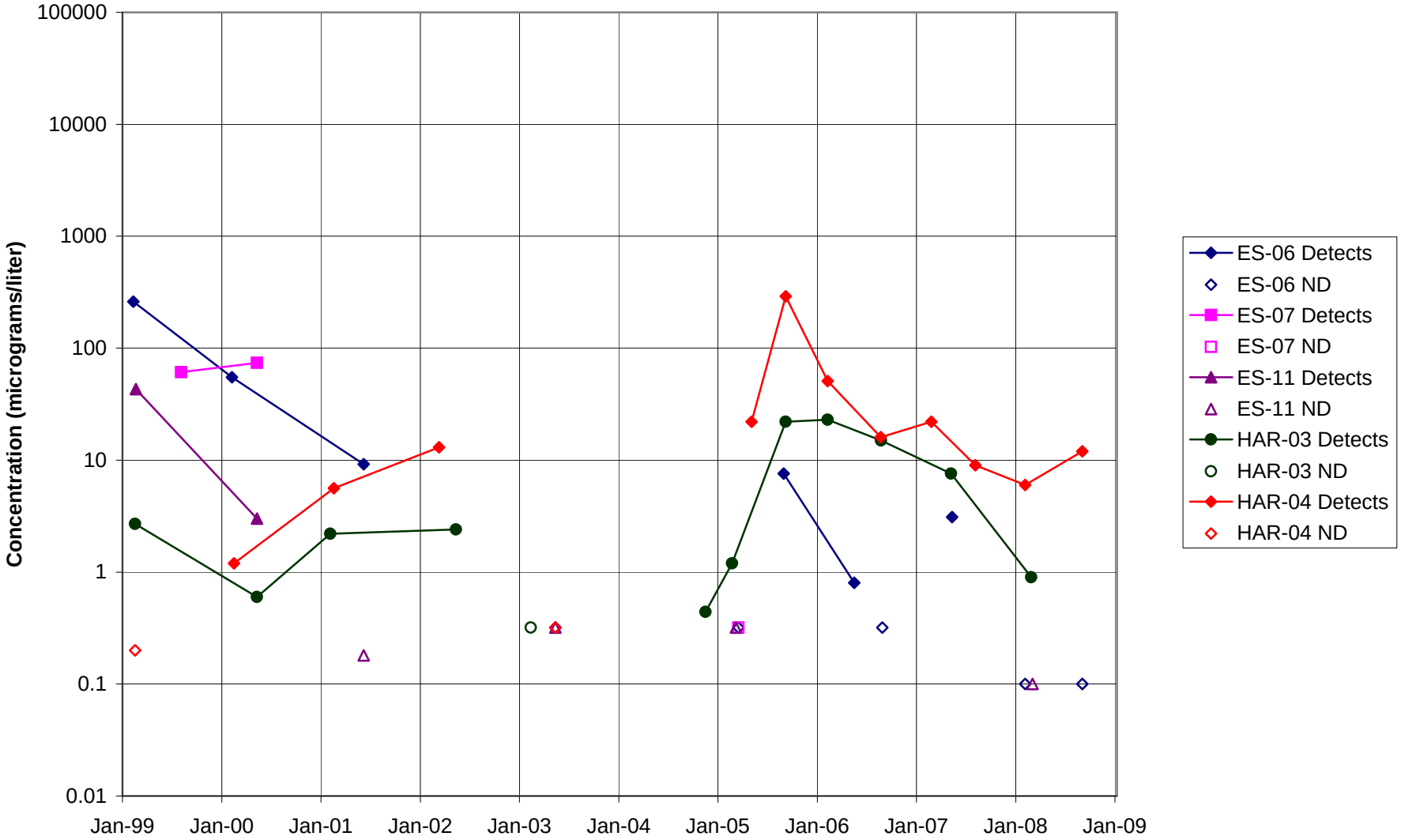


FIGURE F-159. CIS-1,2-DCE in APTF, CANYON & HAPPY VALLEY AREA WELLS - 2

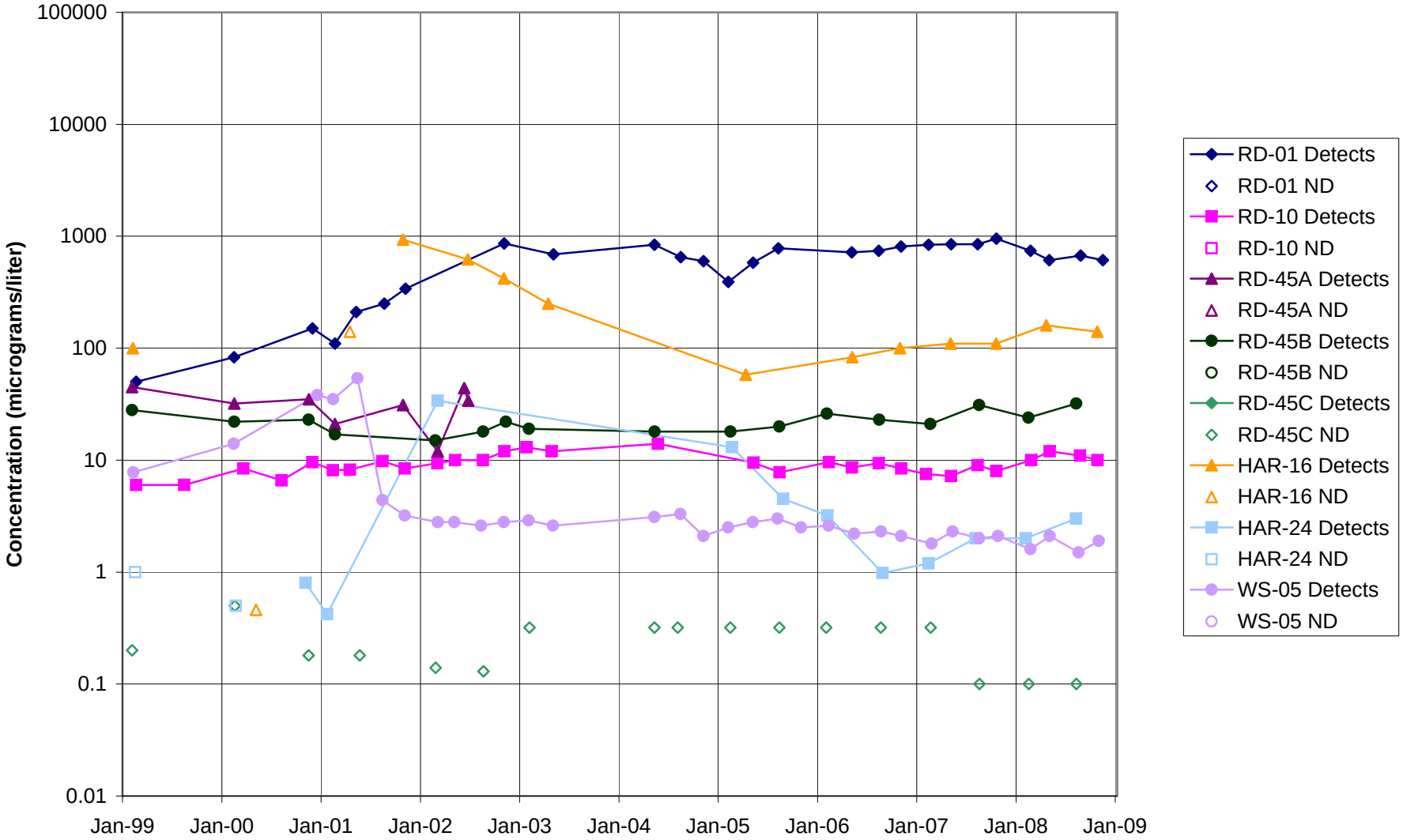


FIGURE F-160. CIS-1,2-DCE in CTL-III / PERIMETER POND AREA WELLS

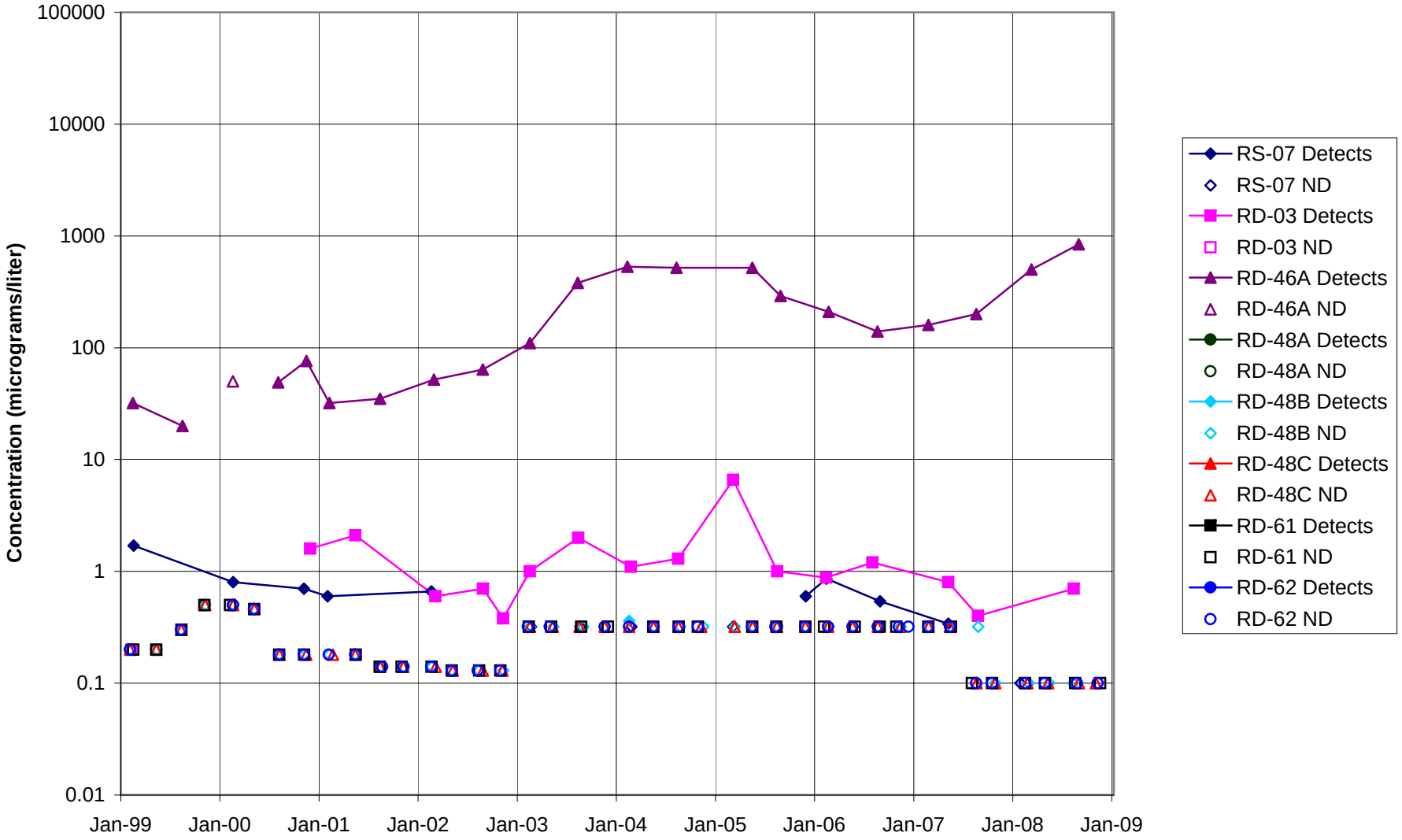


FIGURE F-161. CIS-1,2-DCE in BOWL AREA WELLS

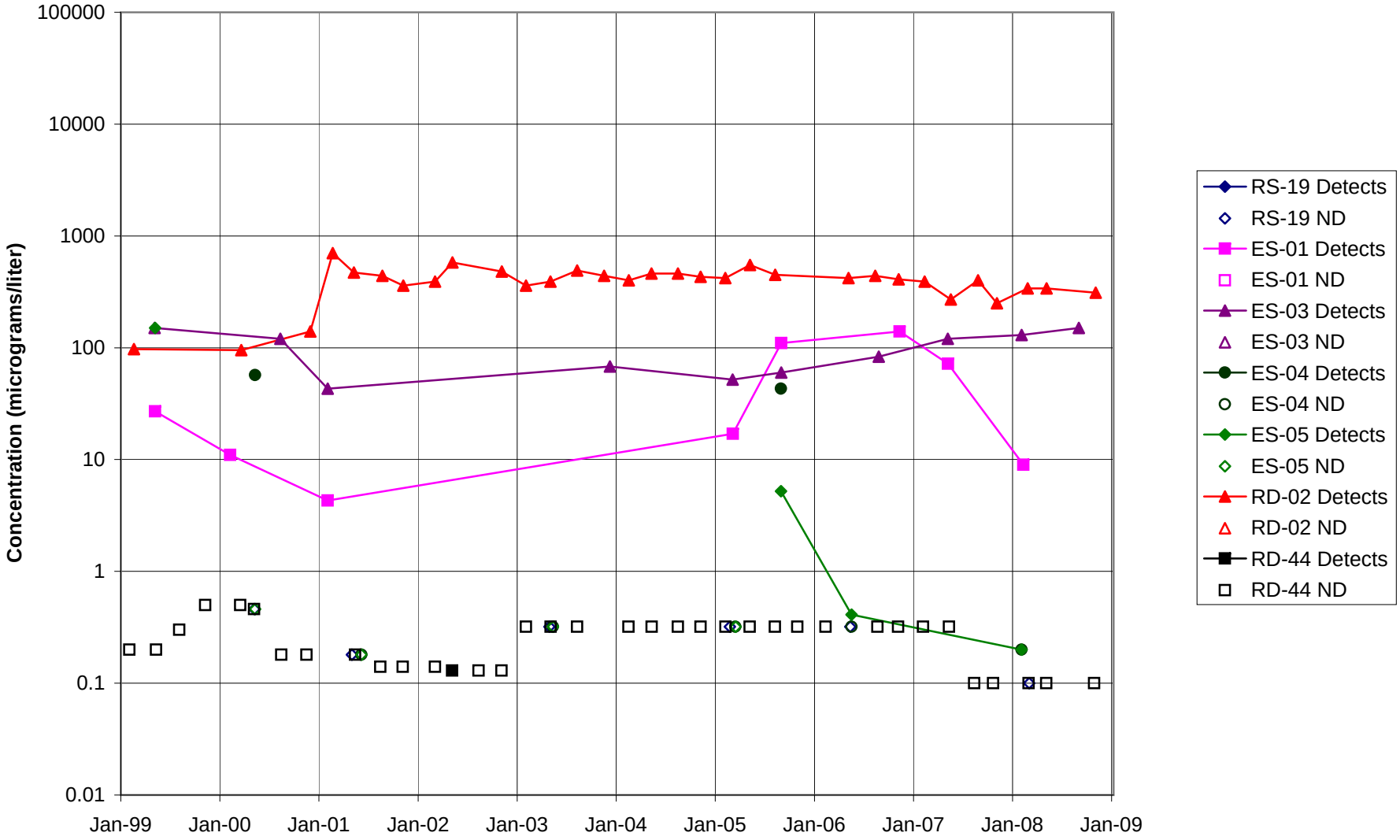


FIGURE F-162. CIS-1,2-DCE in ECL AREA WELLS

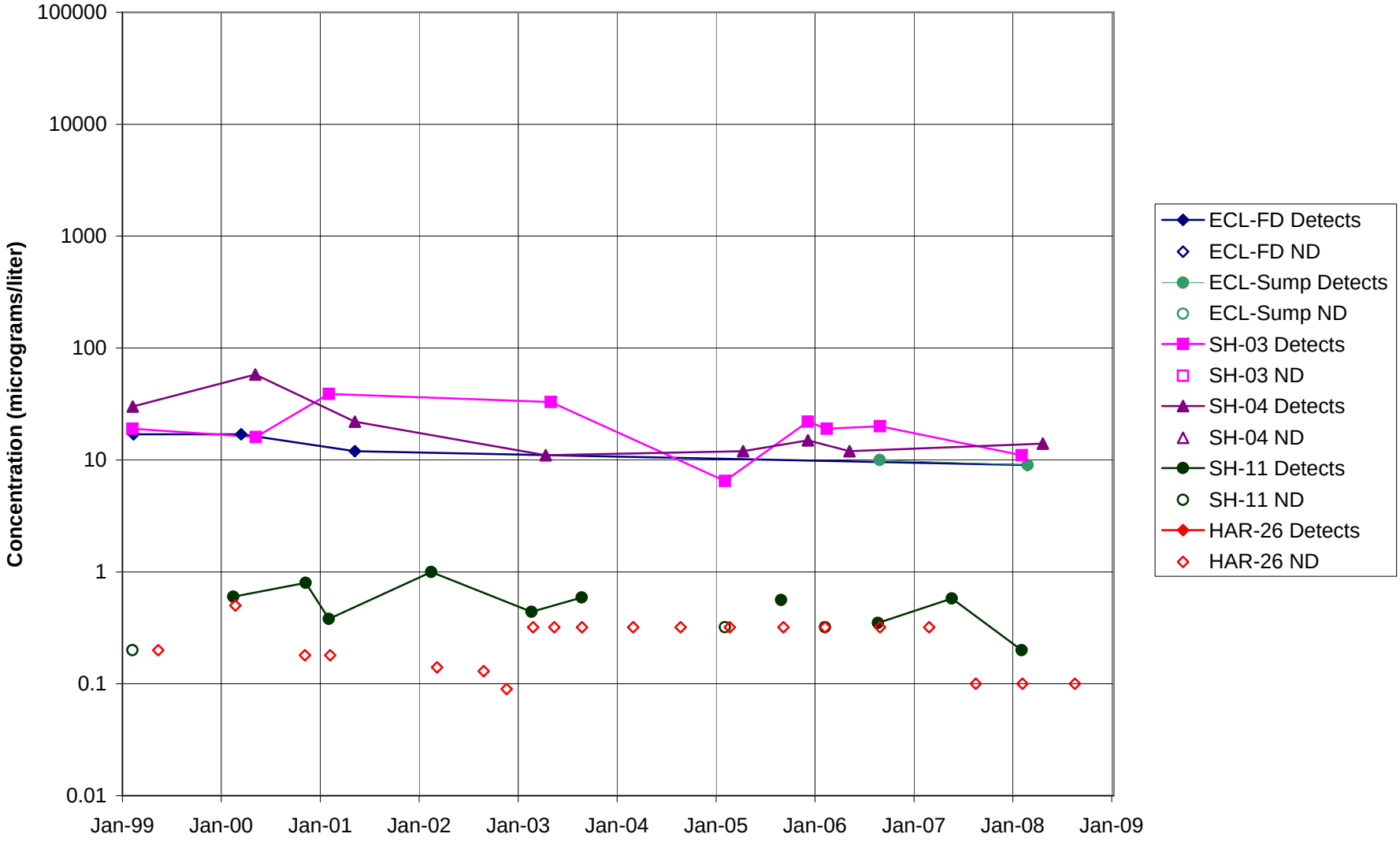


FIGURE F-163. CIS-1,2-DCE in FORMER LOX PLANT AREA WELLS

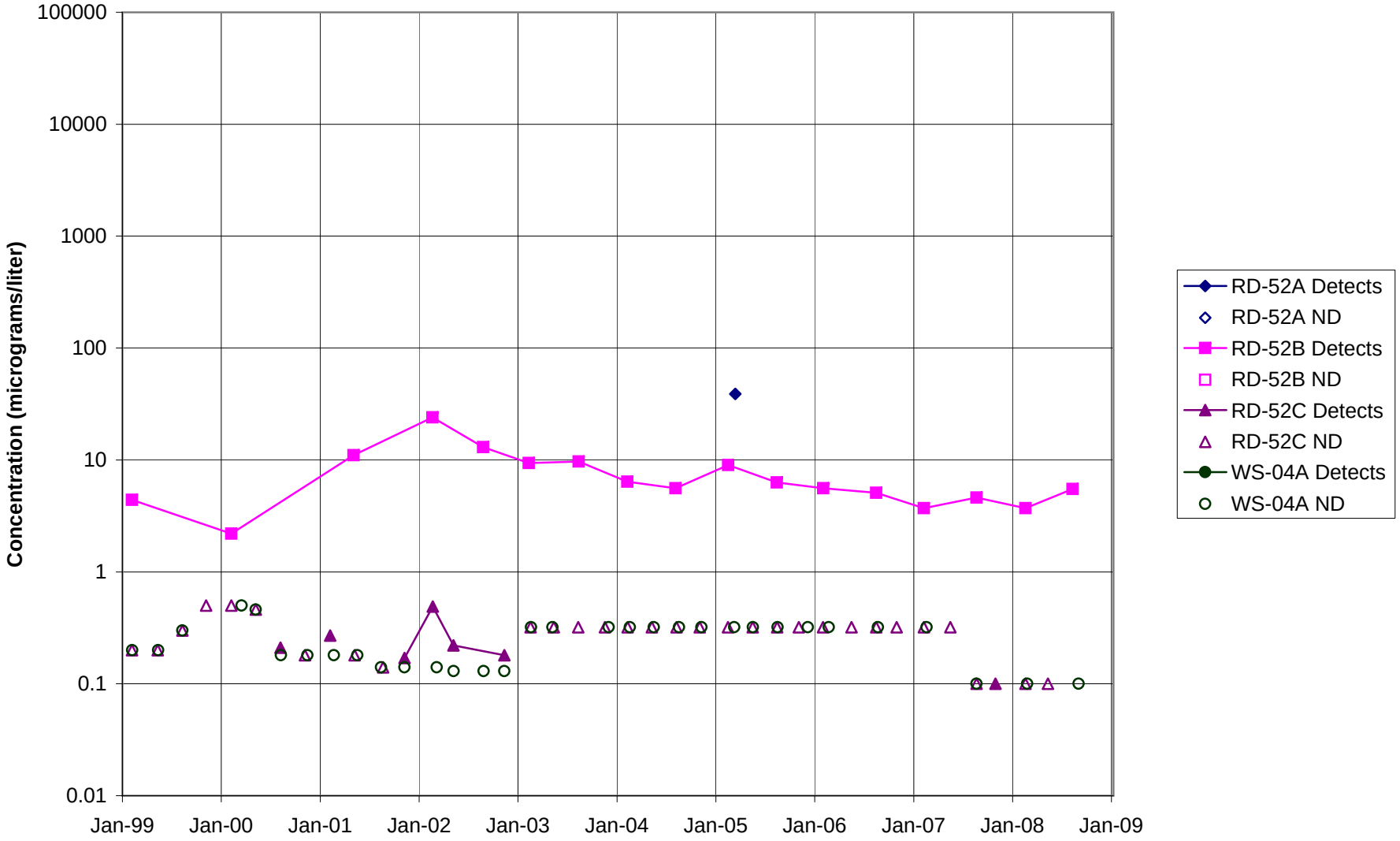


FIGURE F-164. CIS-1,2-DCE in RD-09 AREA WELLS

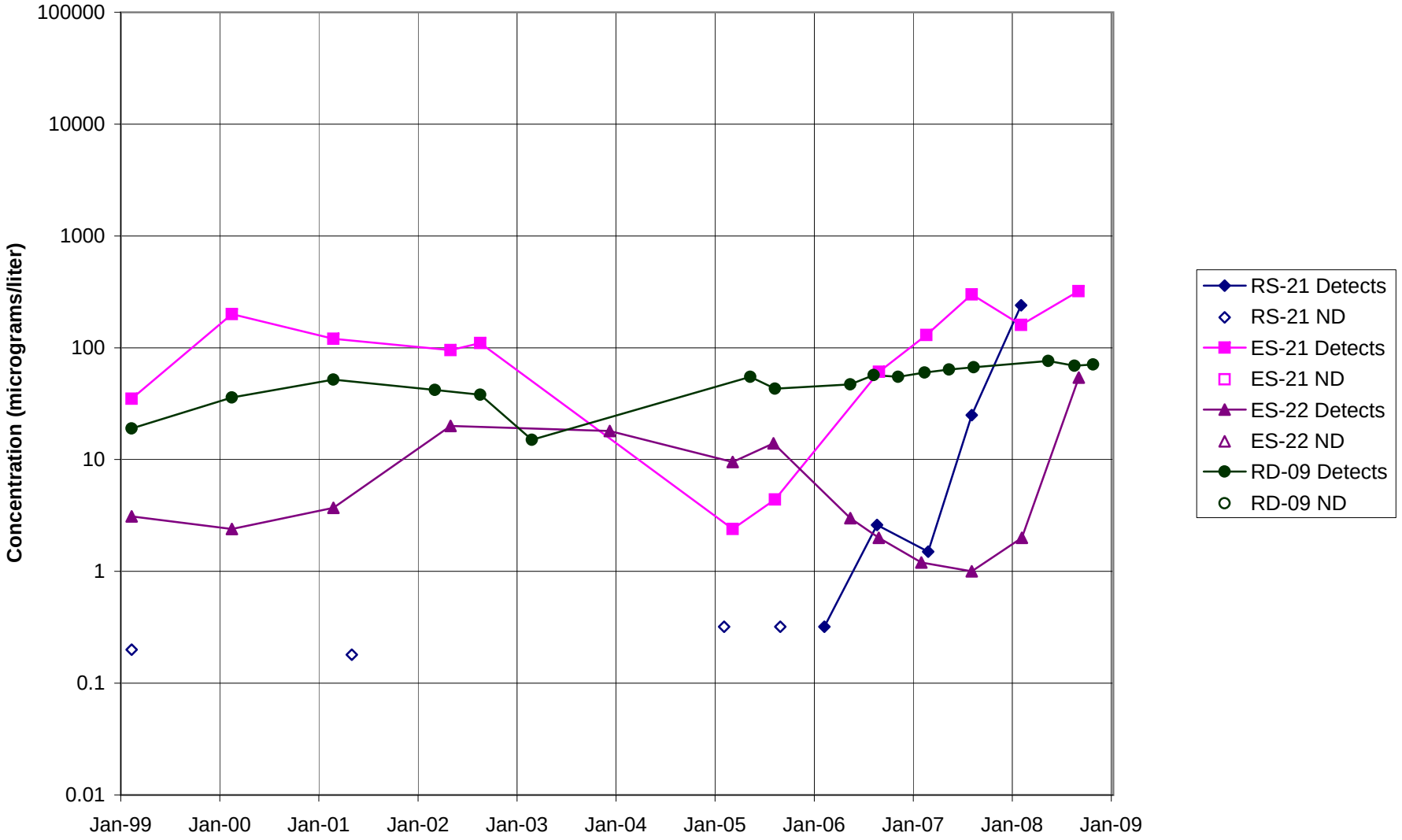


FIGURE F-165. CIS-1,2-DCE in HELIPORT, B/204 AREA WELLS

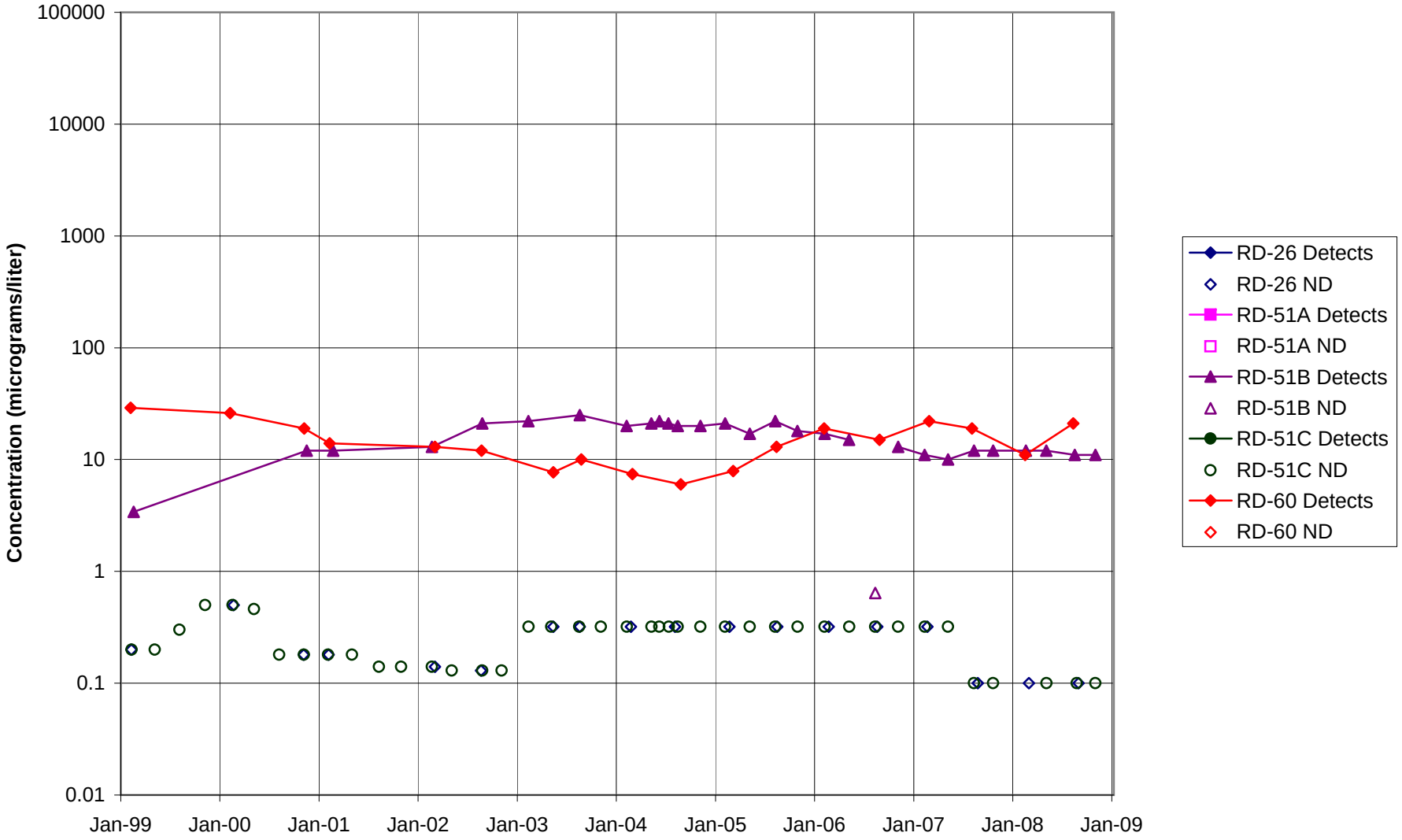


FIGURE F-166. CIS-1,2-DCE in ALFA / BRAVO AREA WELLS

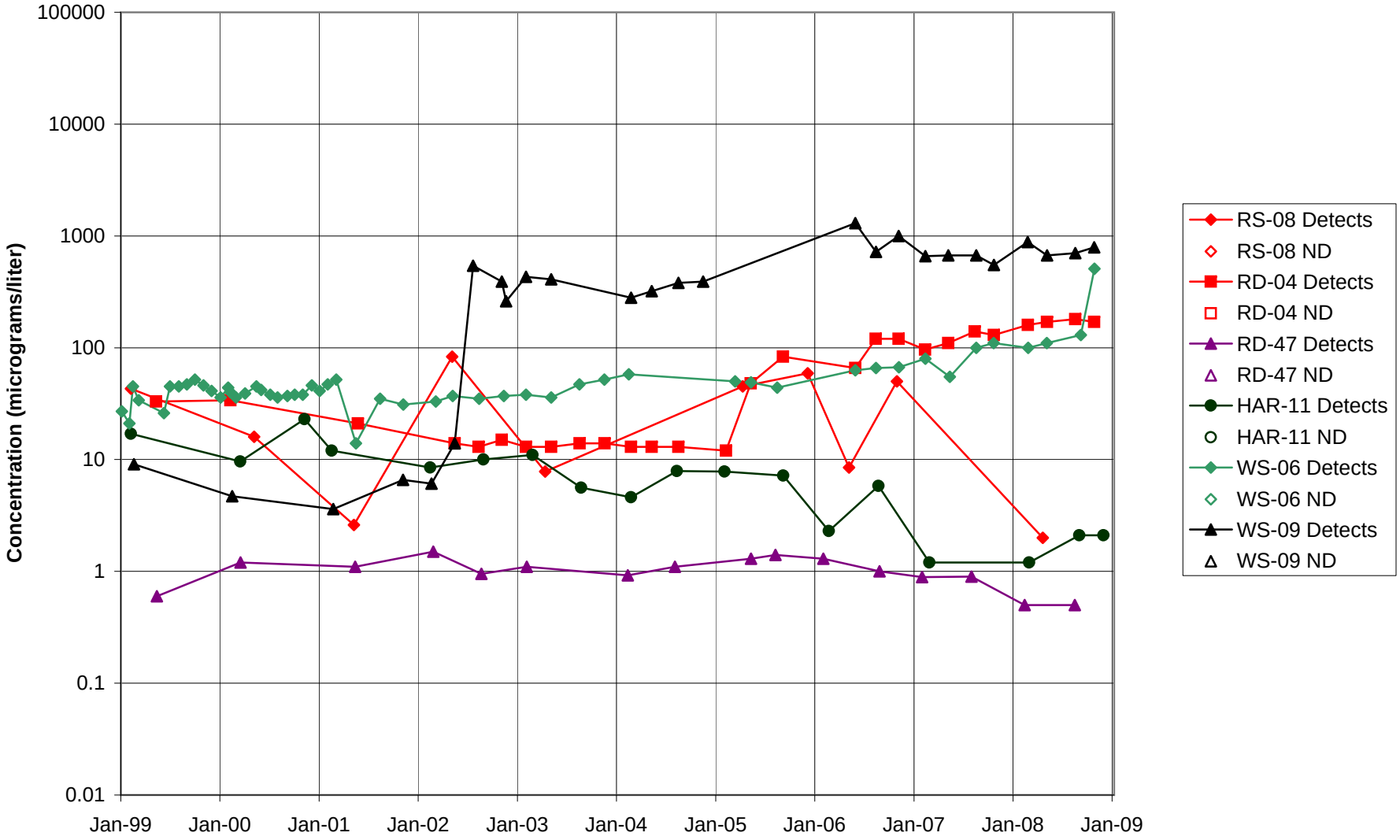


FIGURE F-167. CIS-1,2-DCE in SPA AREA WELLS

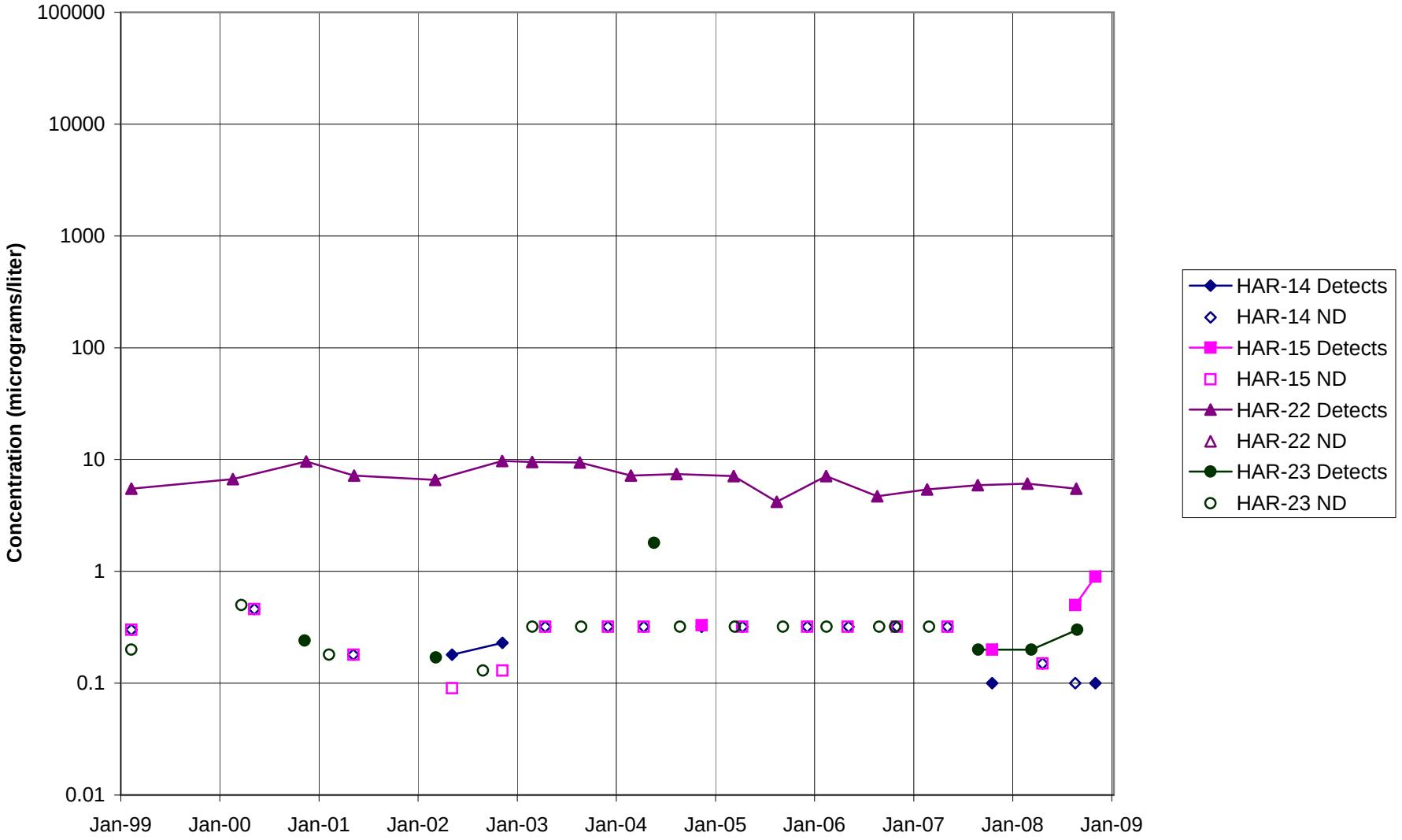


FIGURE F-168. CIS-1,2-DCE in COCA / PLF AREA WELLS

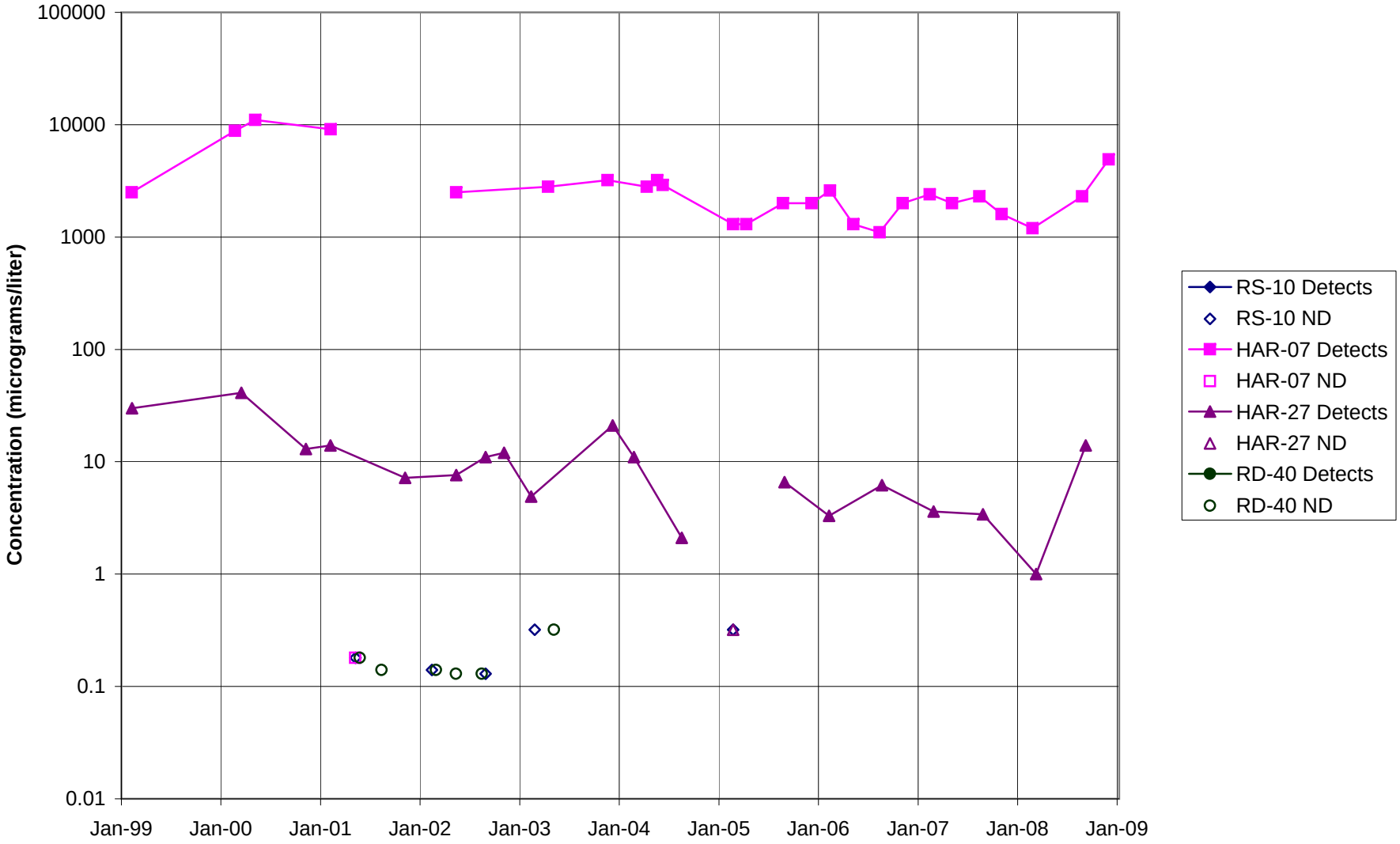


FIGURE F-169. CIS-1,2-DCE in DELTA / BUFFER ZONE AREA WELLS

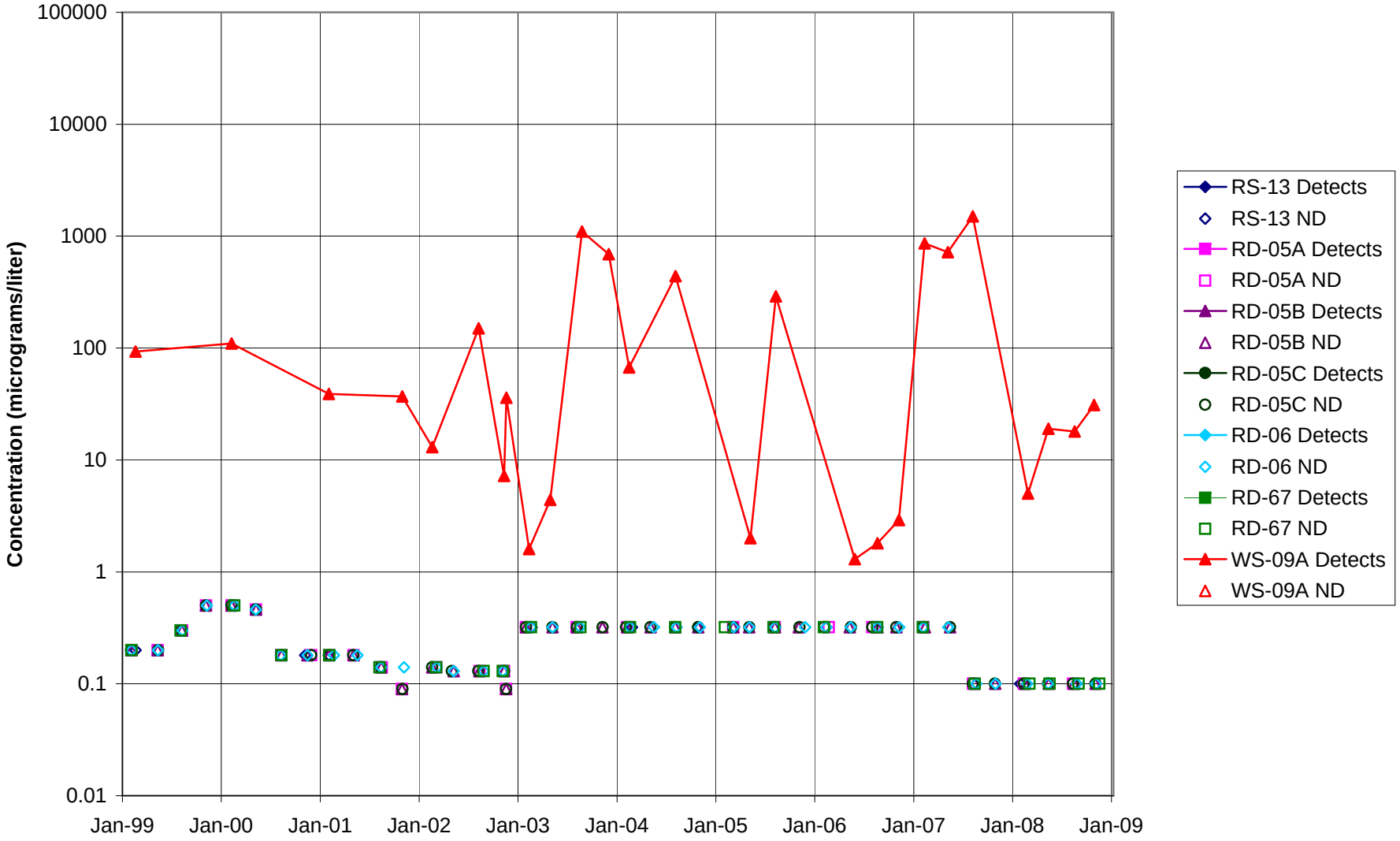


FIGURE F-170. CIS-1,2-DCE in AREA IV WELLS

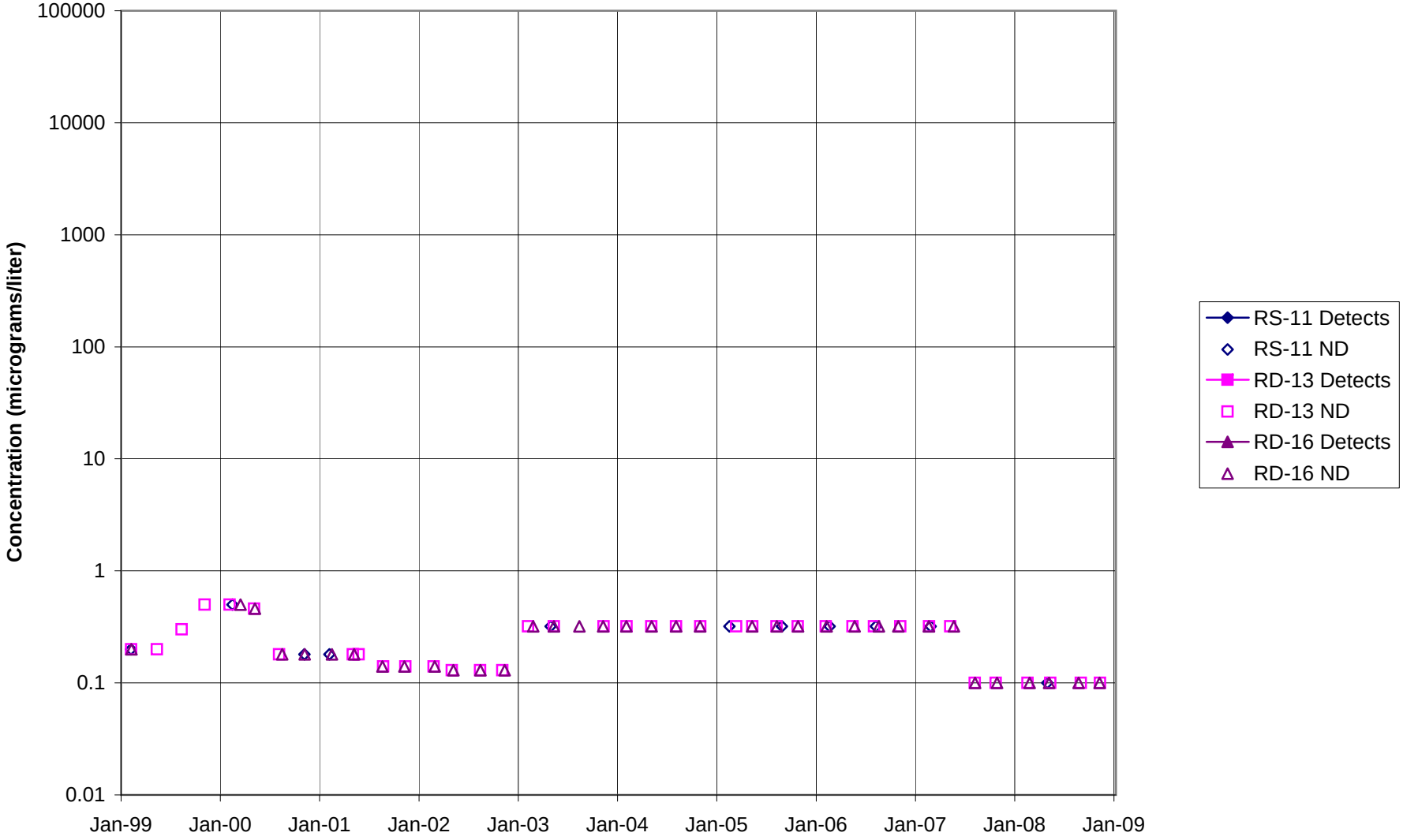


FIGURE F-171. ETHYLBENZENE IN STL-IV AREA SHALLOW WELLS

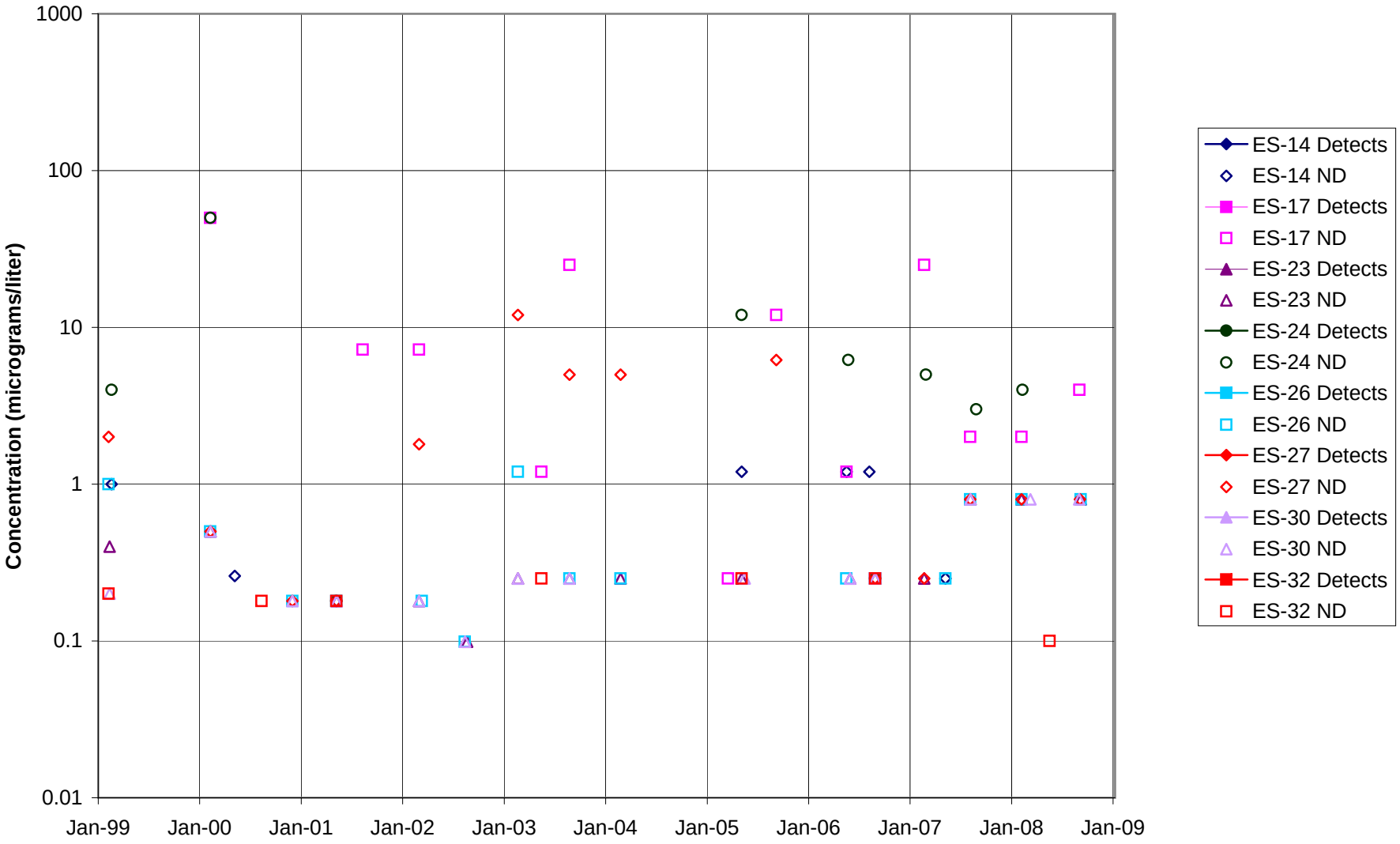


FIGURE F-172. ETHYLBENZENE IN STL-IV AREA CHATSWORTH FORMATION WELLS

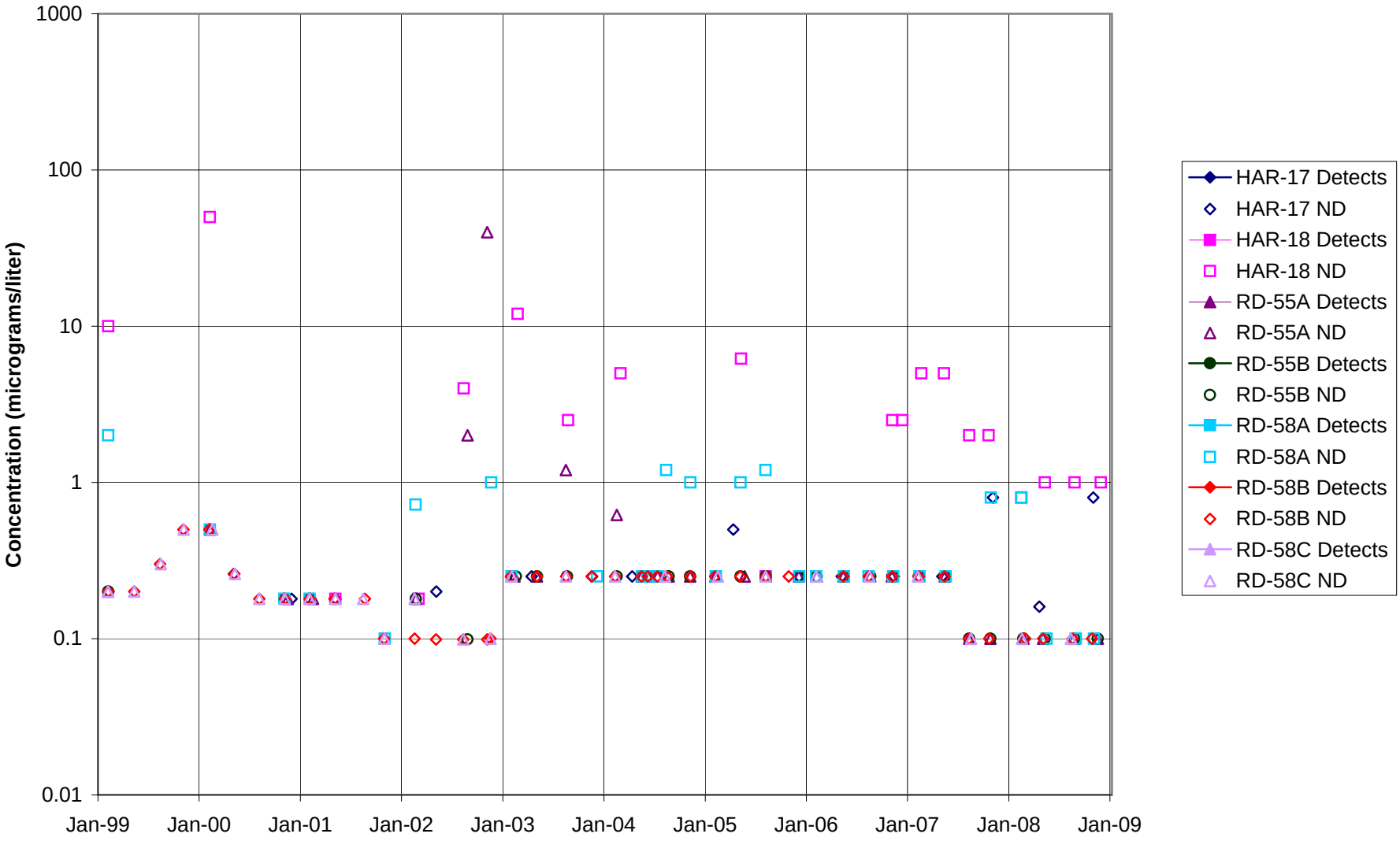


FIGURE F-173. ETHYLBENZENE IN MAIN GATE AREA WELLS - 1

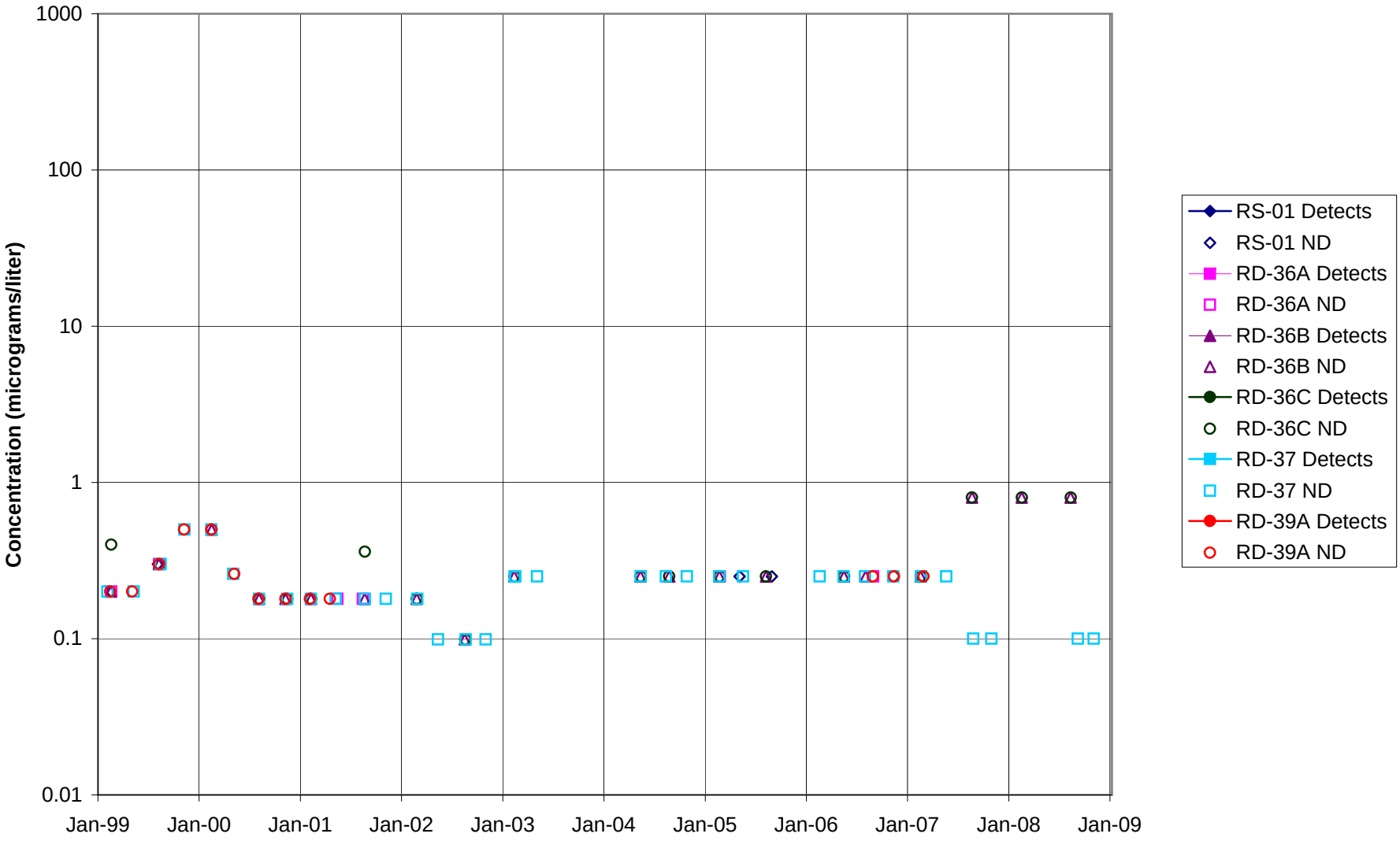


FIGURE F-174. ETHYLBENZENE IN MAIN GATE AREA WELLS - 2

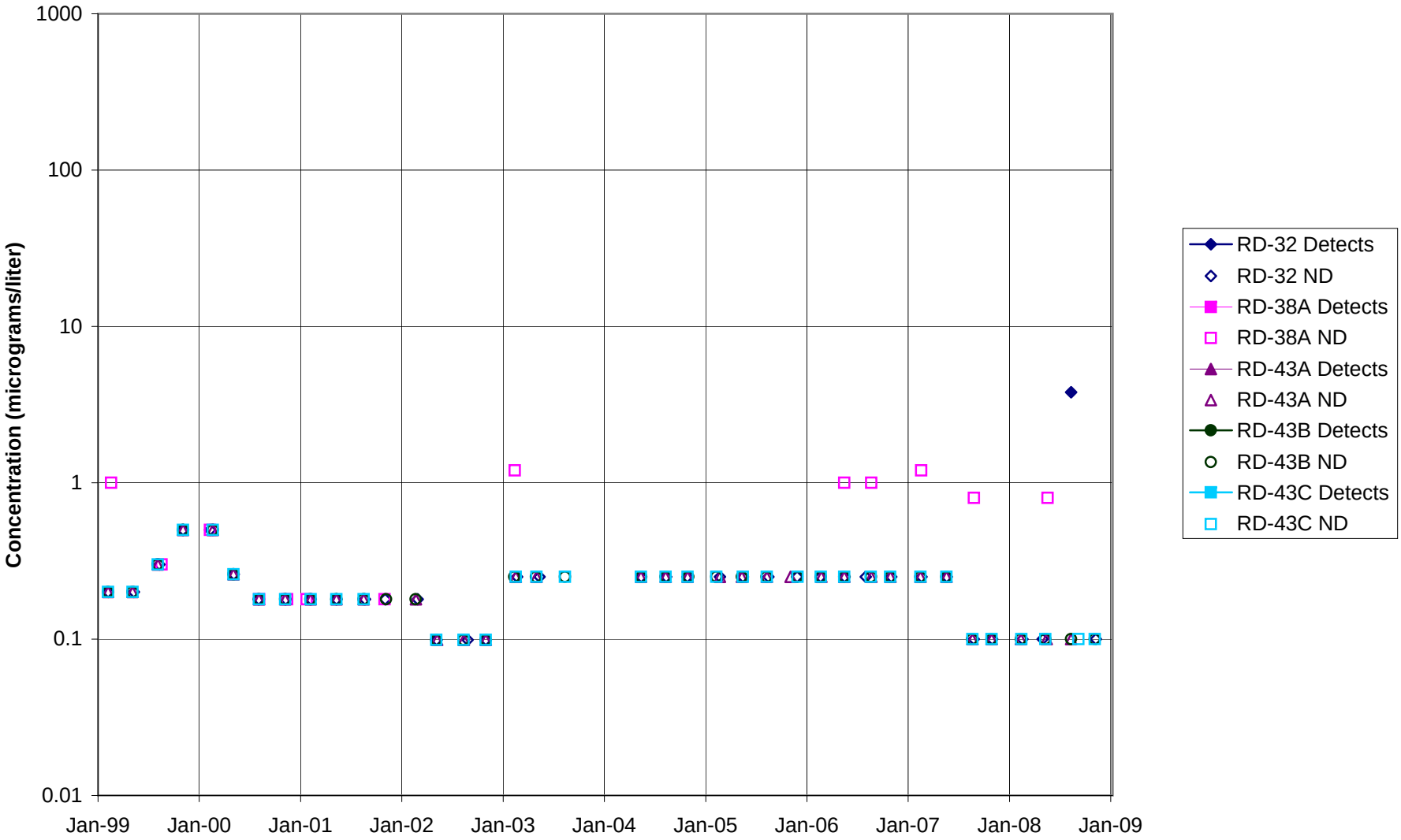


FIGURE F-175. ETHYLBENZENE IN APTF, CANYON & HAPPY VALLEY AREA WELLS - 1

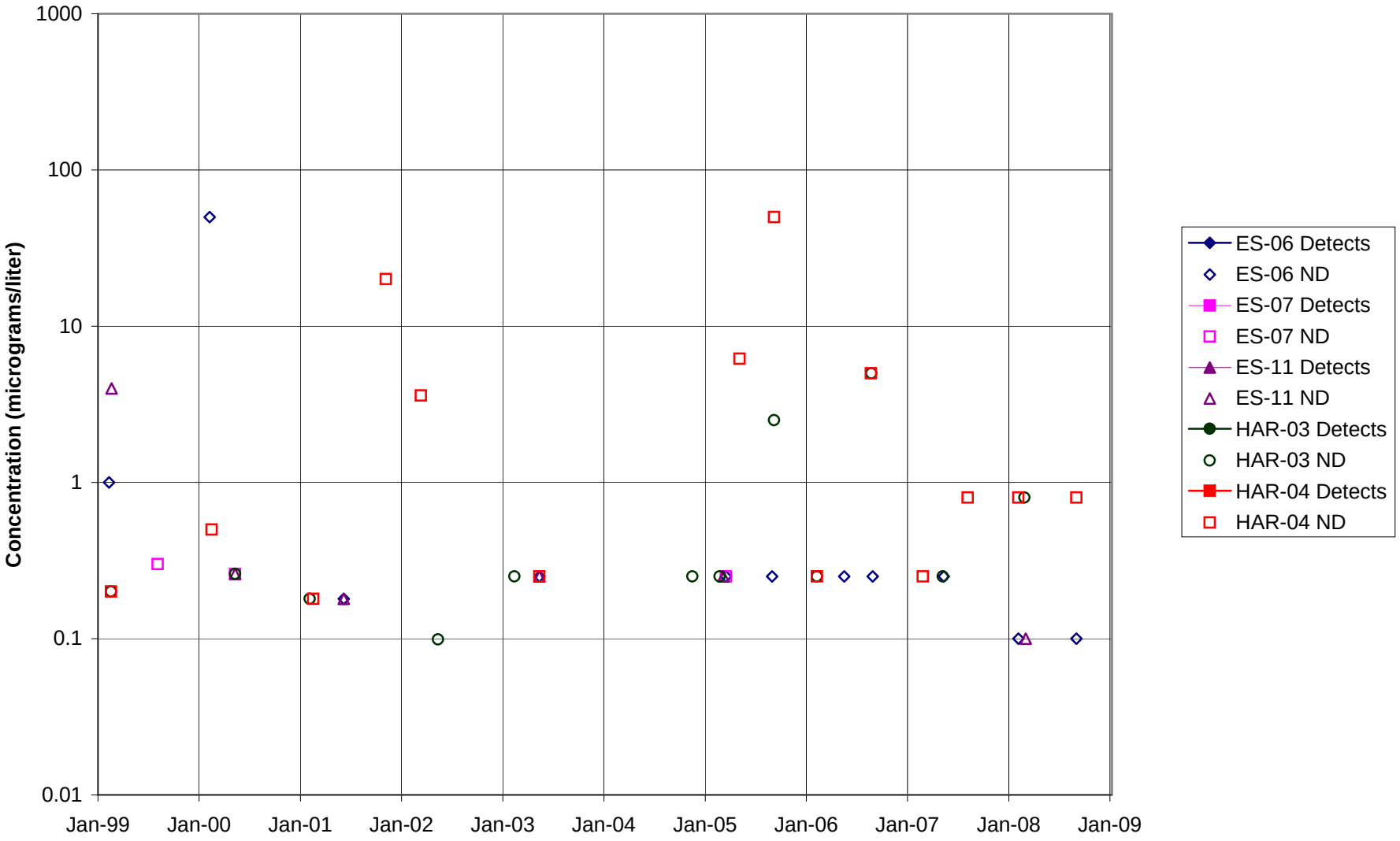


FIGURE F-176. ETHYLBENZENE IN APTF, CANYON & HAPPY VALLEY AREA WELLS - 2

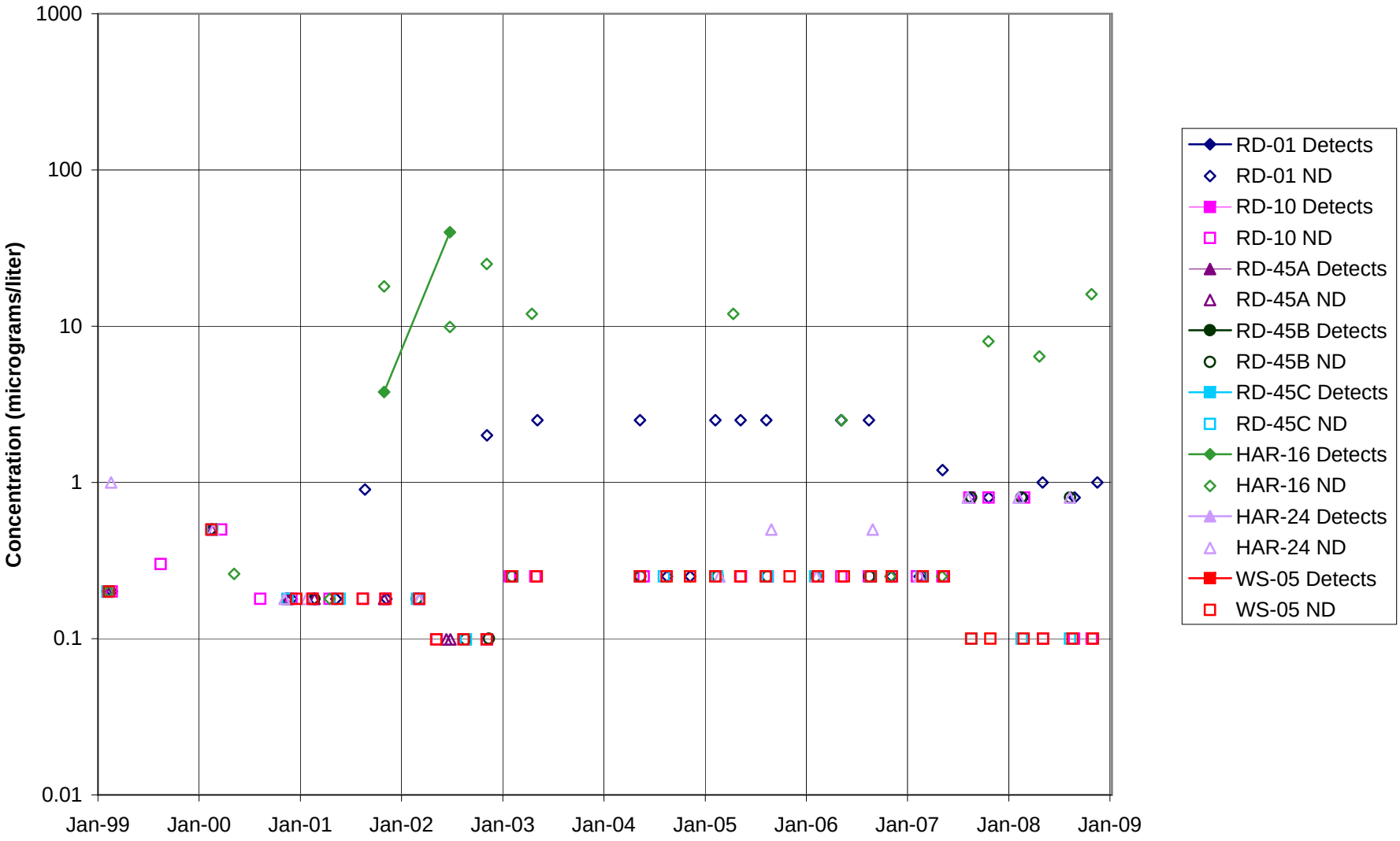


FIGURE F-177. ETHYLBENZENE IN CTL-III / PERIMETER POND AREA WELLS

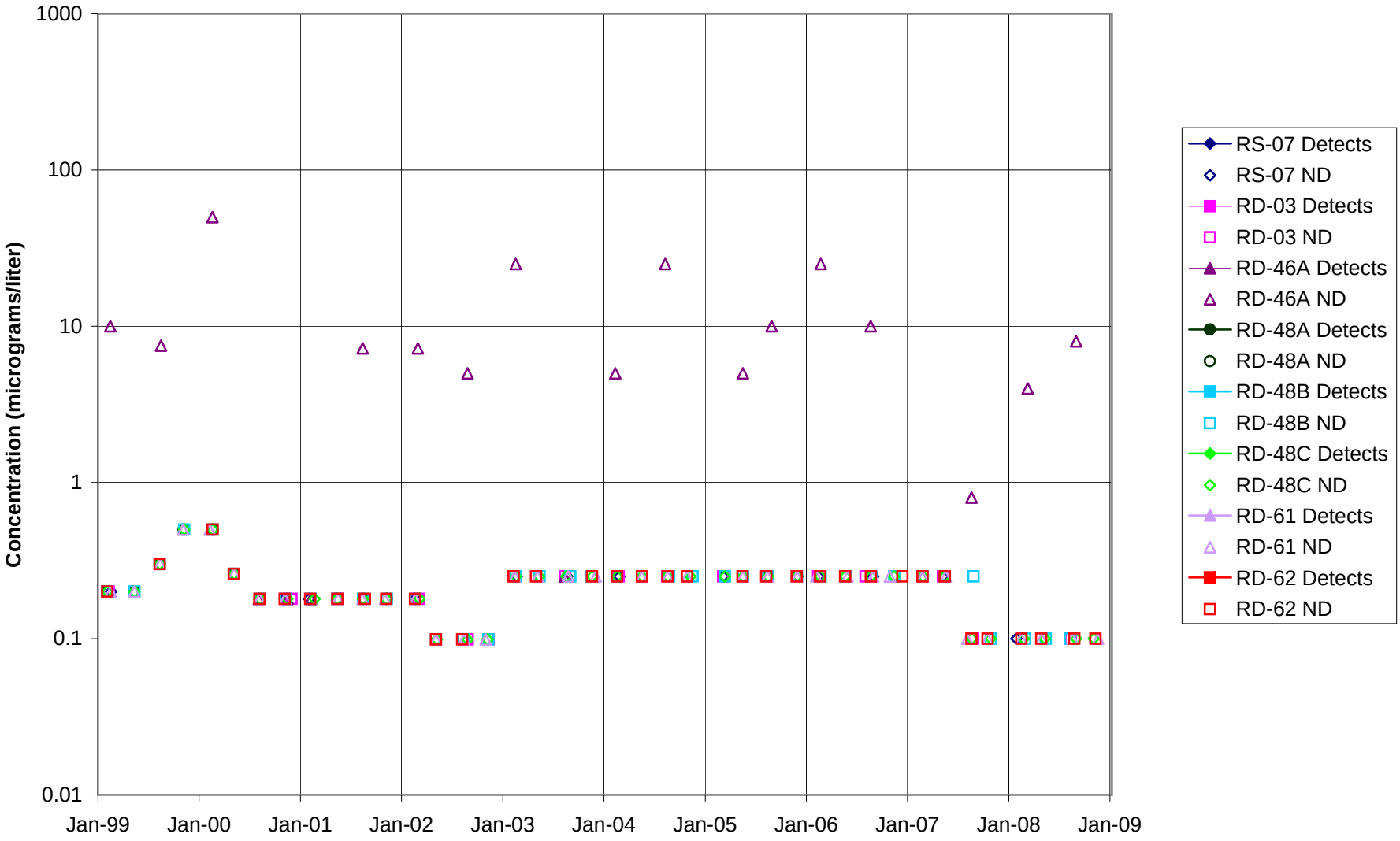


FIGURE F-178. ETHYLBENZENE IN BOWL AREA WELLS

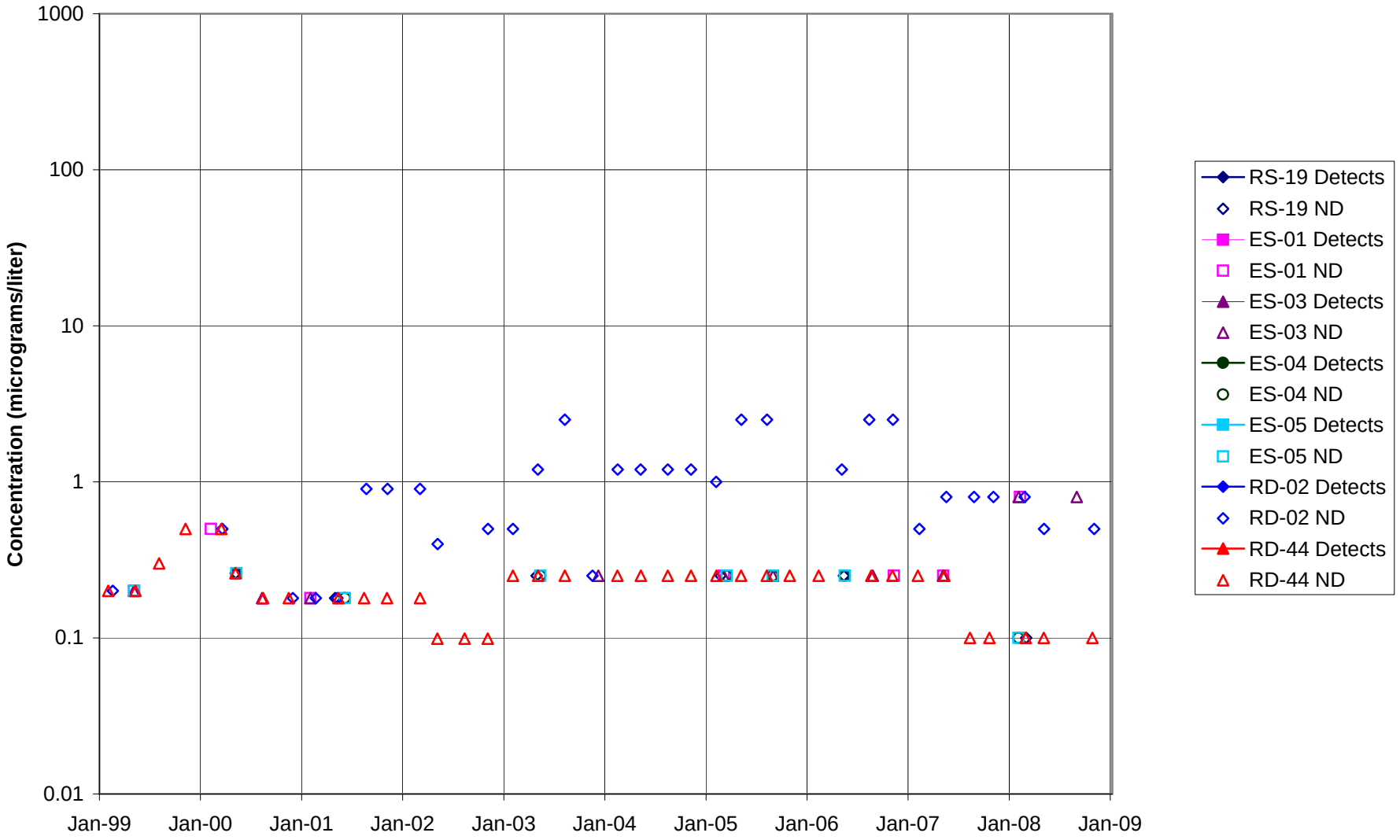


FIGURE F-179. ETHYLBENZENE IN ECL AREA WELLS

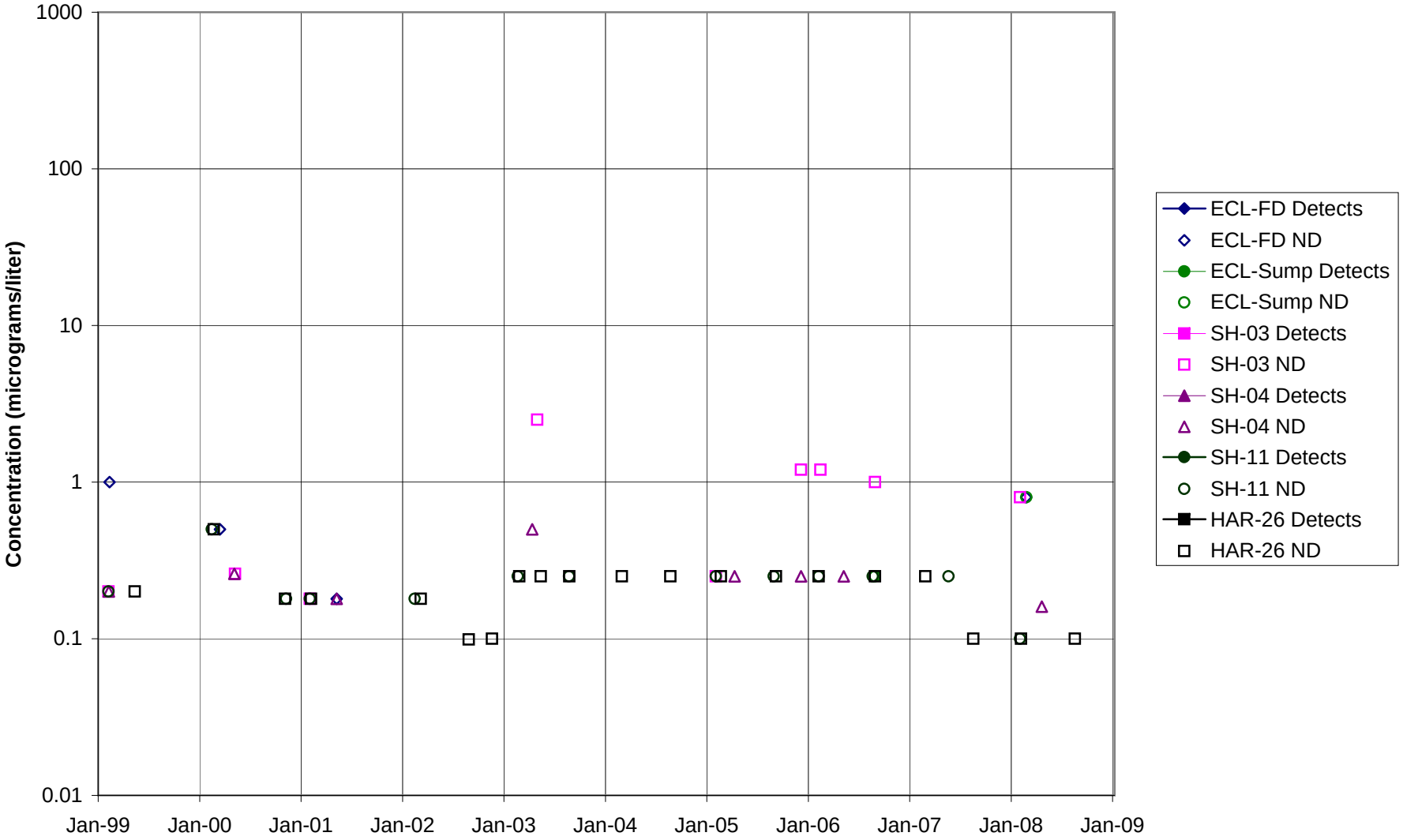


FIGURE F-180. ETHYLBENZENE IN FORMER LOX PLANT AREA WELLS

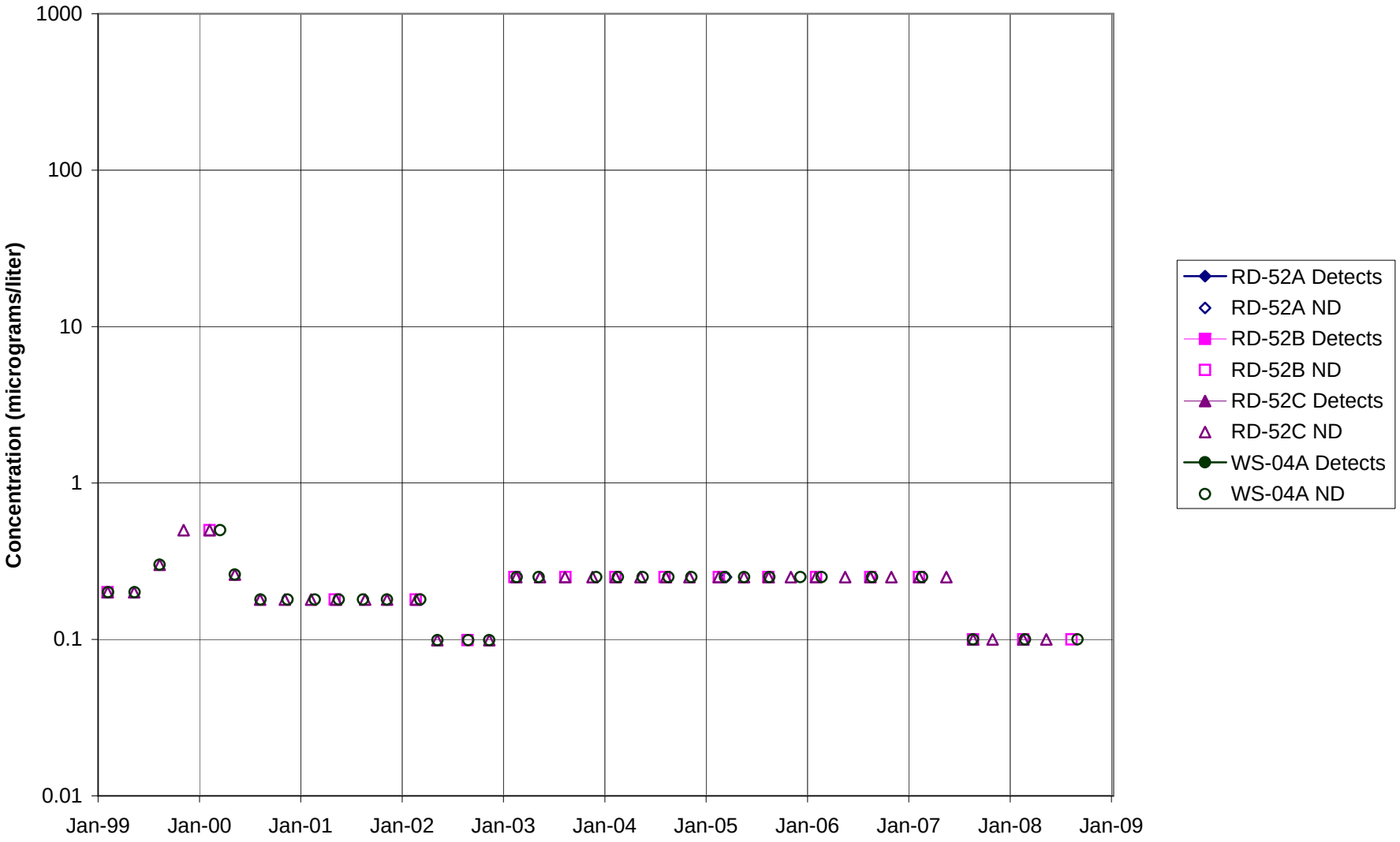


FIGURE F-181. ETHYLBENZENE IN RD-09 AREA WELLS

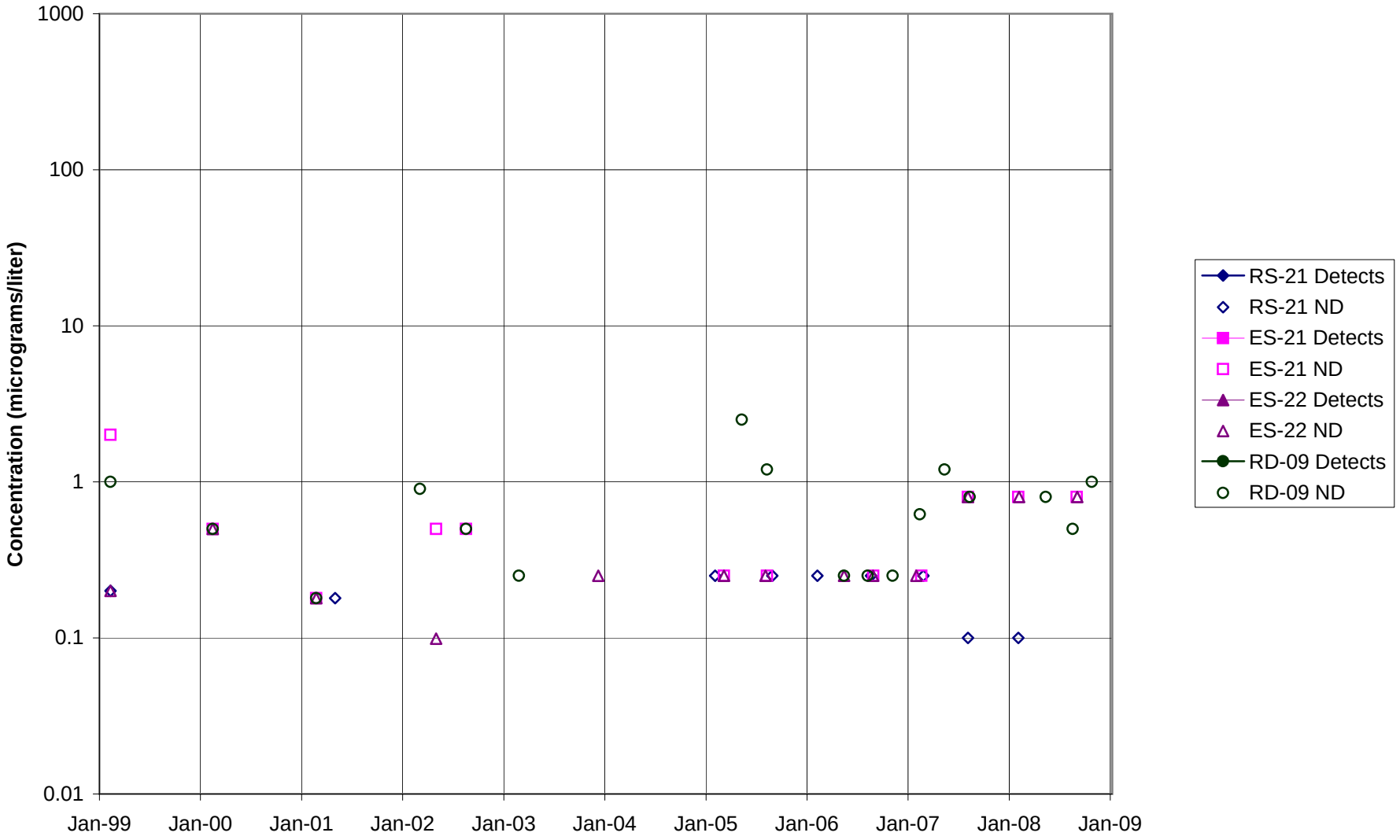


FIGURE F-182. ETHYLBENZENE IN HELIPORT, B/204 AREA WELLS

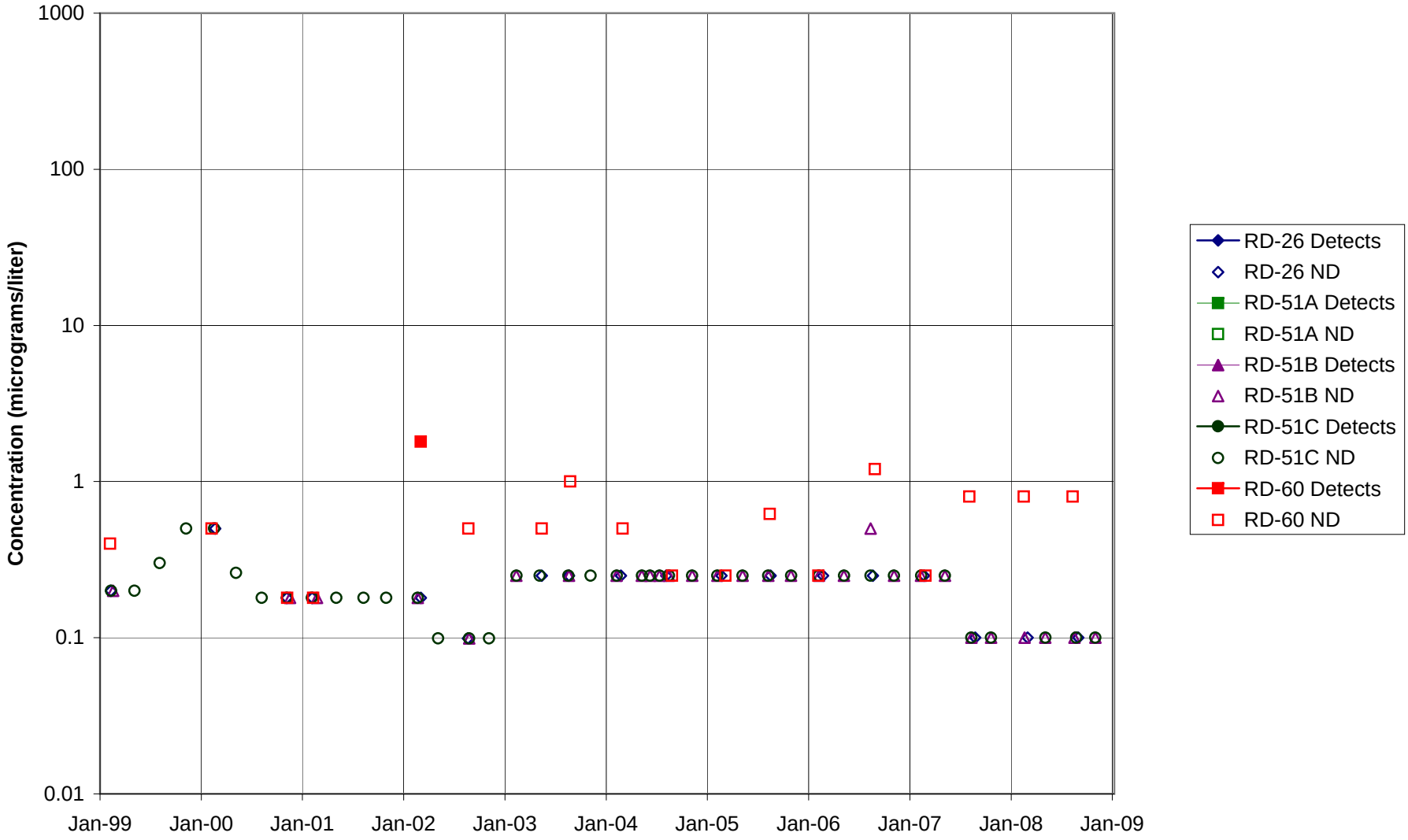


FIGURE F-183. ETHYLBENZENE IN ALFA / BRAVO AREA WELLS

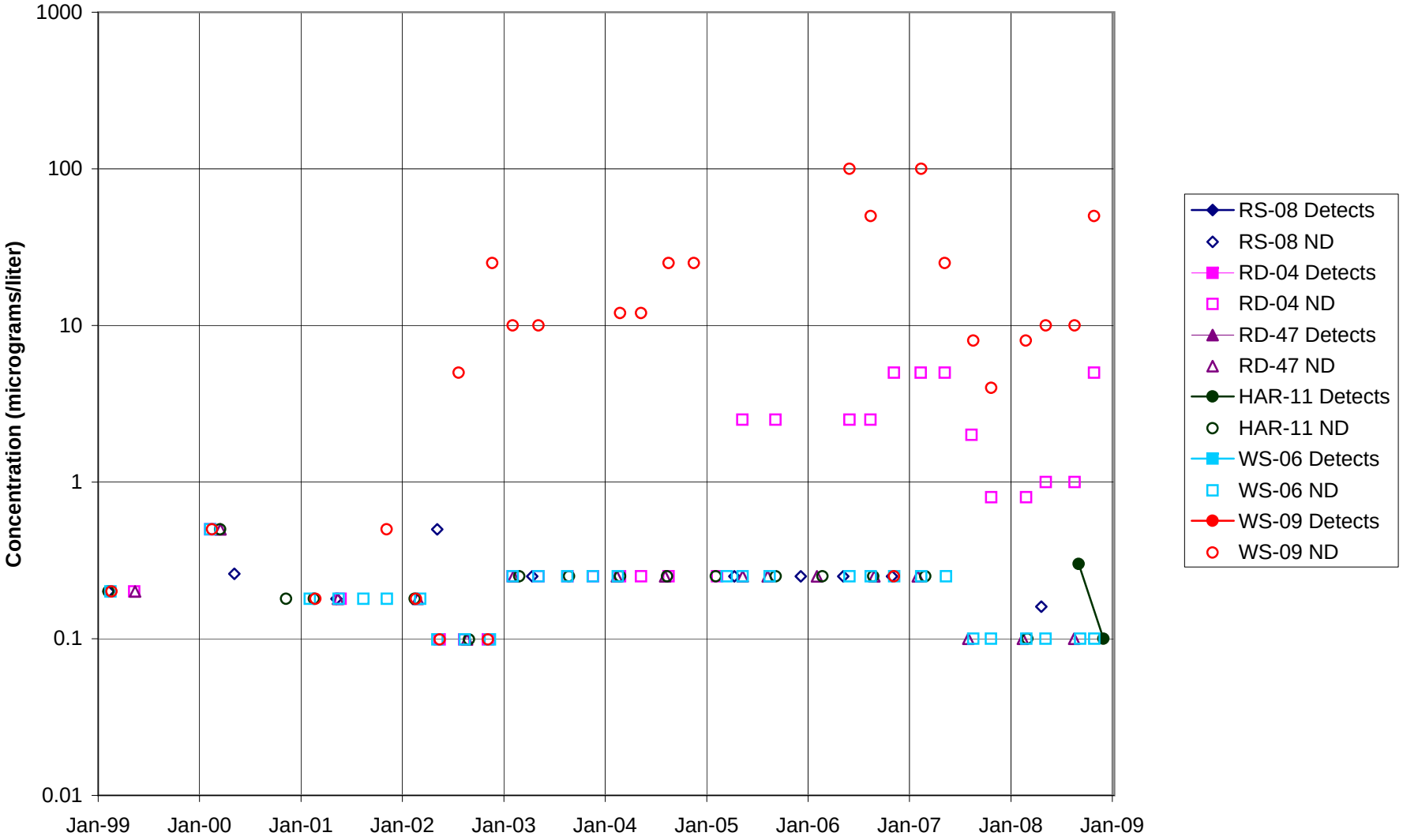


FIGURE F-184. ETHYLBENZENE IN SPA AREA WELLS

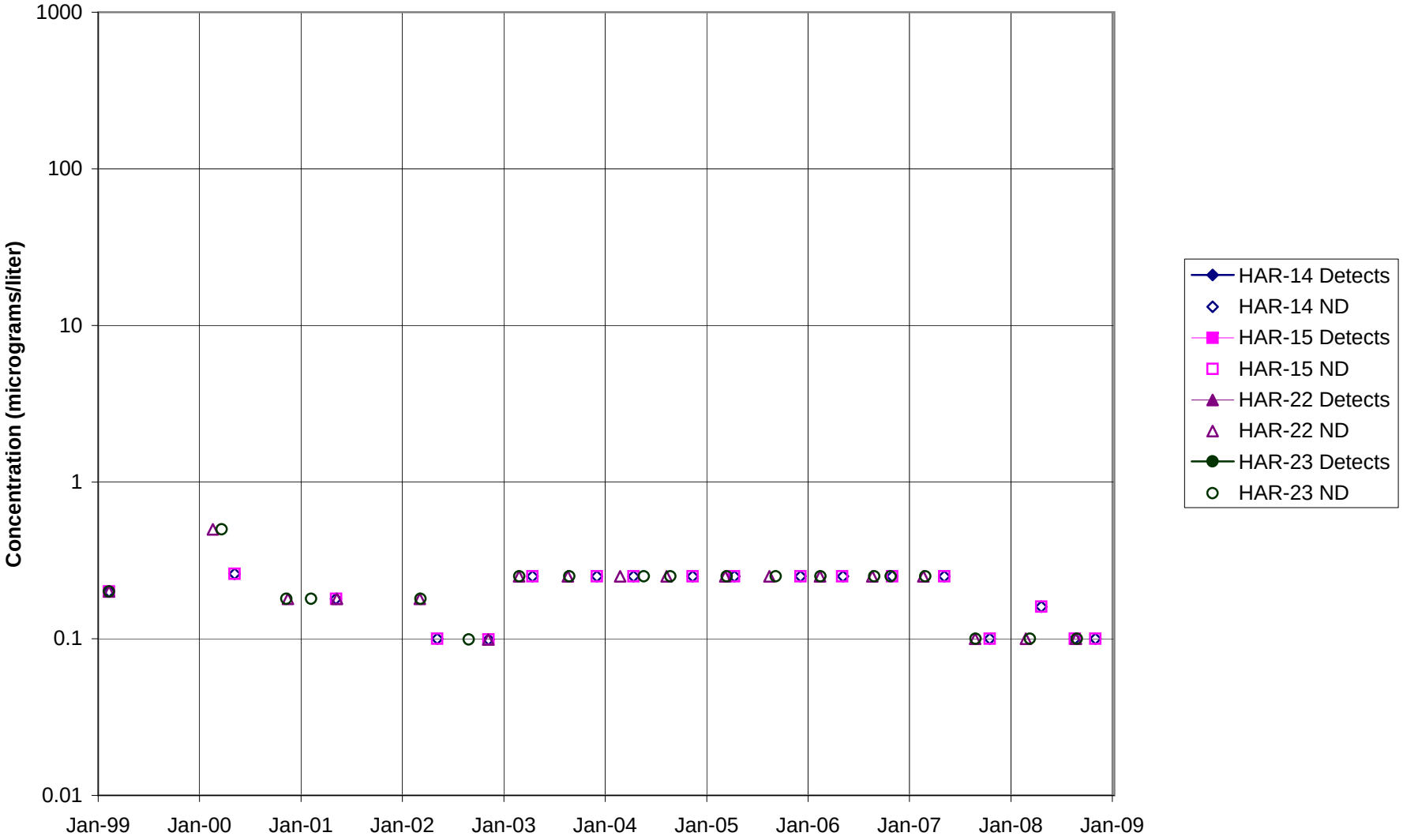


FIGURE F-185. ETHYLBENZENE in COCA / PLF AREA WELLS

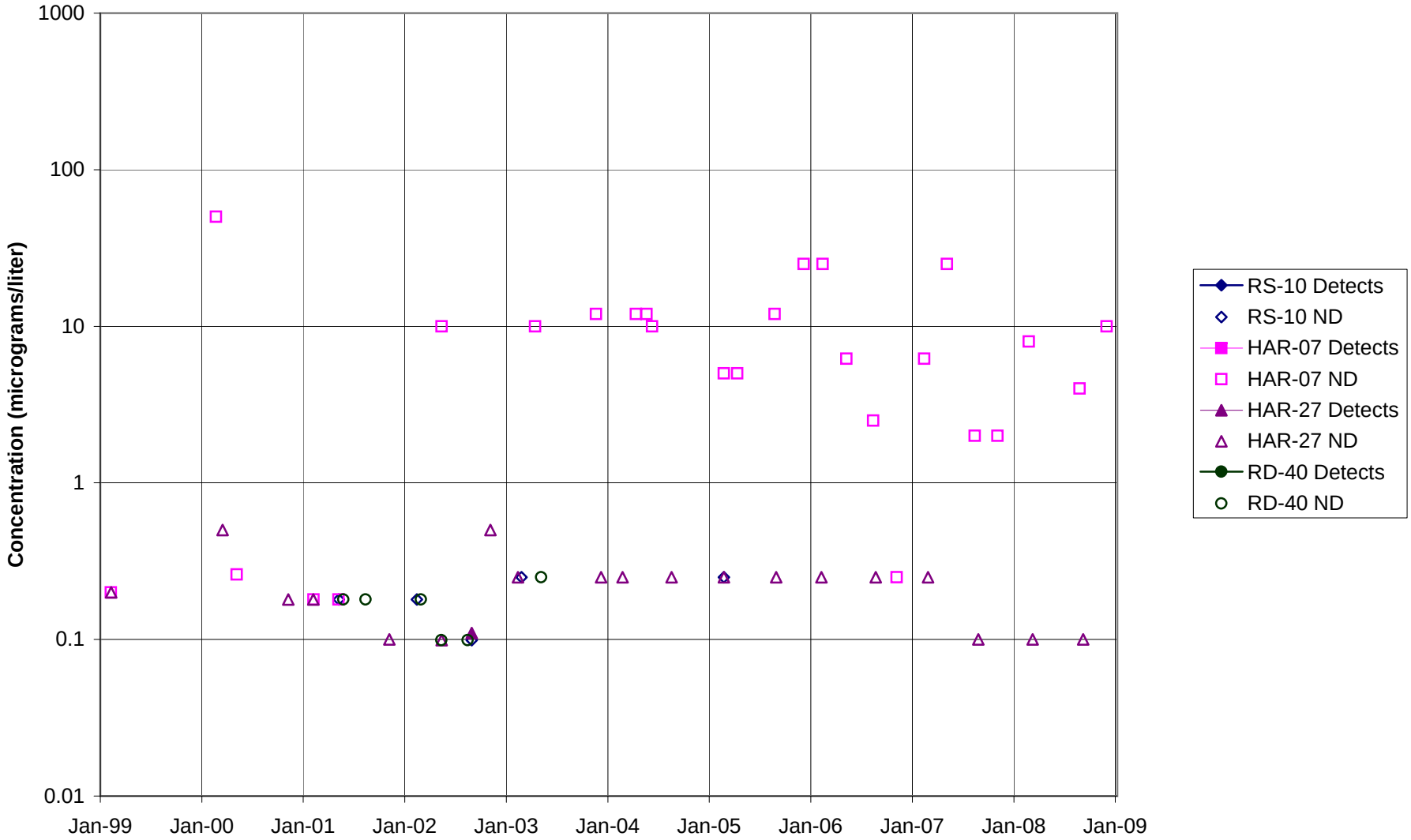


FIGURE F-186. ETHYLBENZENE IN DELTA / BUFFER ZONE AREA WELLS

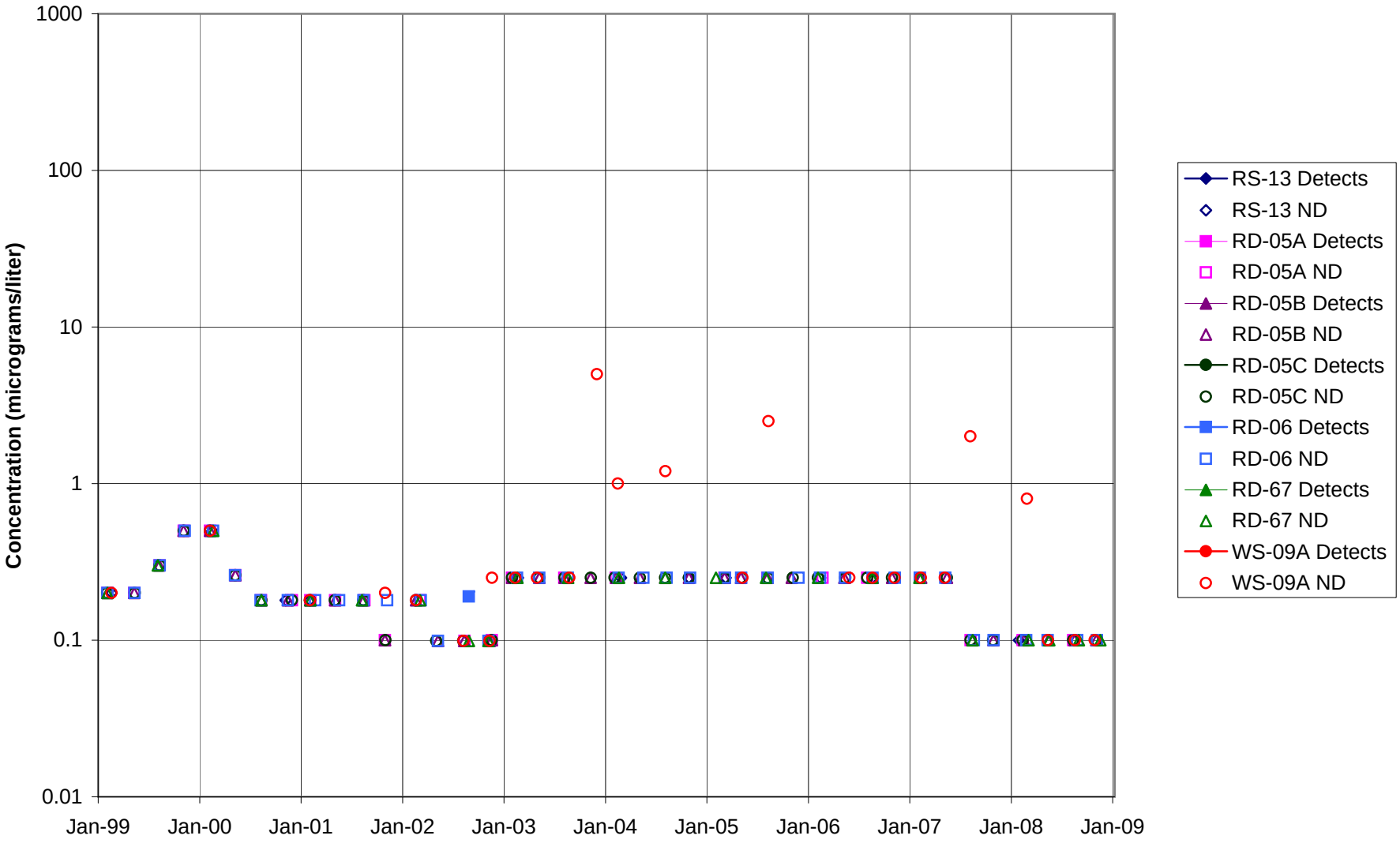


FIGURE F-187. ETHYLBENZENE IN AREA IV WELLS

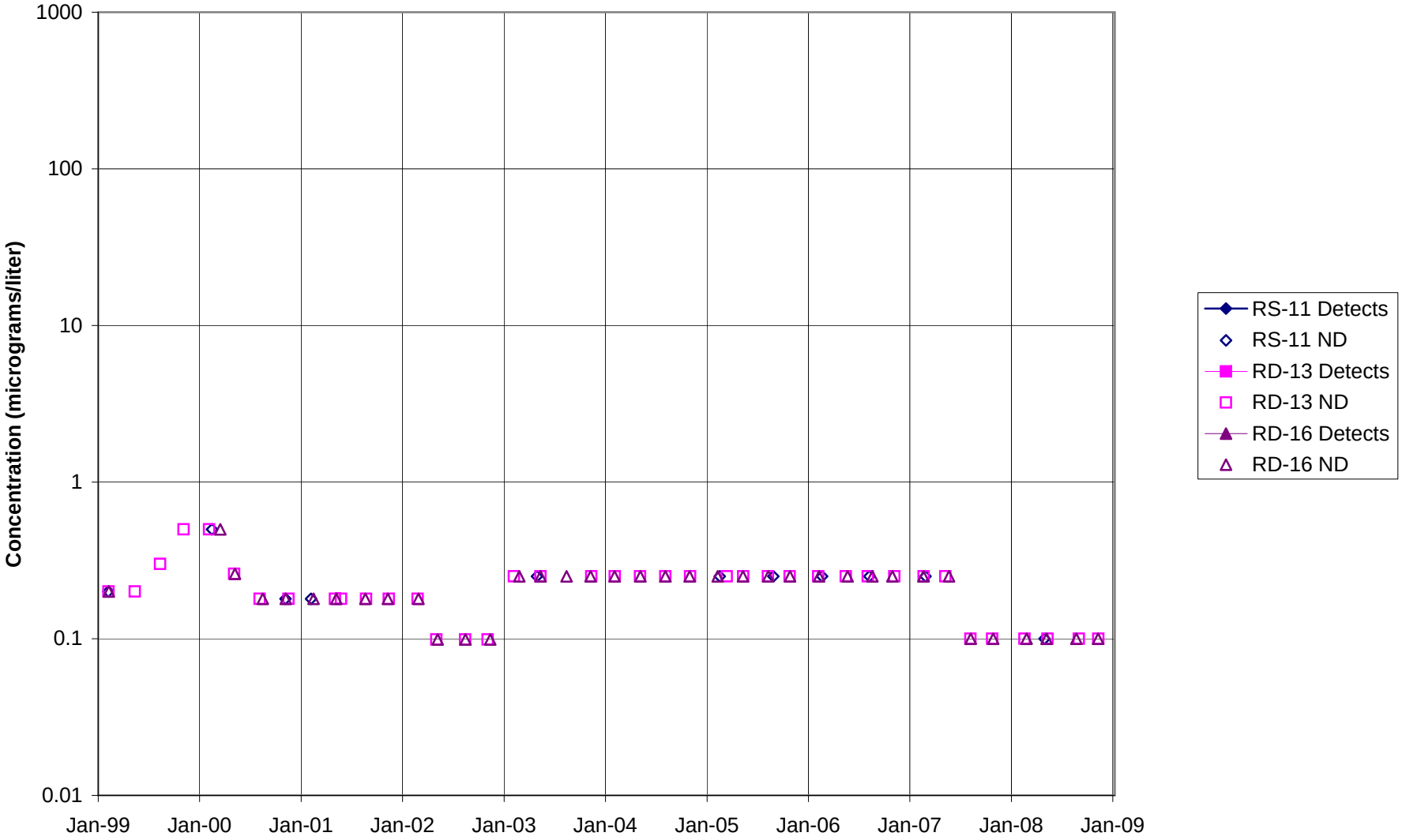


FIGURE F-188. FLUORIDE in STL-IV AREA CHATSWORTH FORMATION WELLS

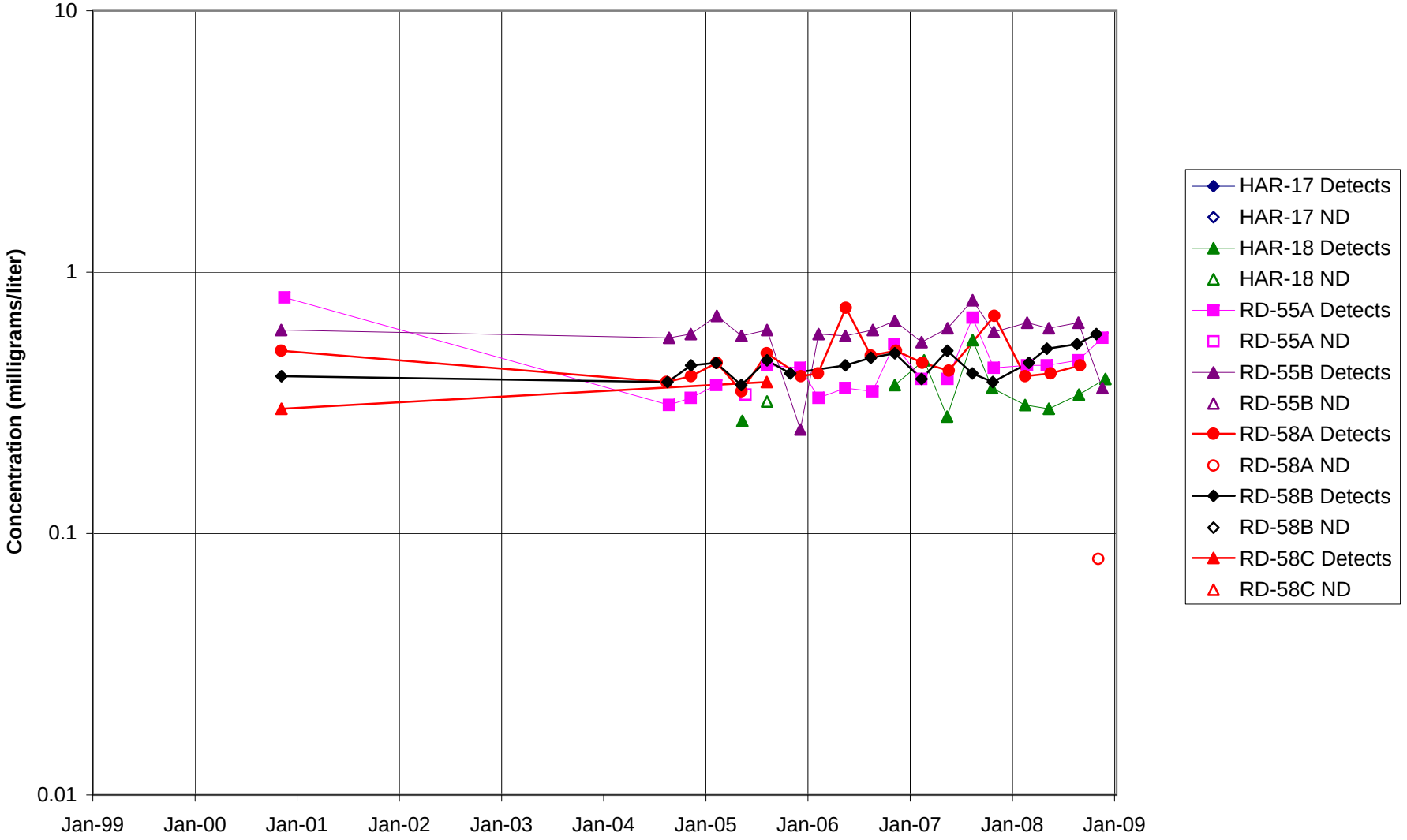
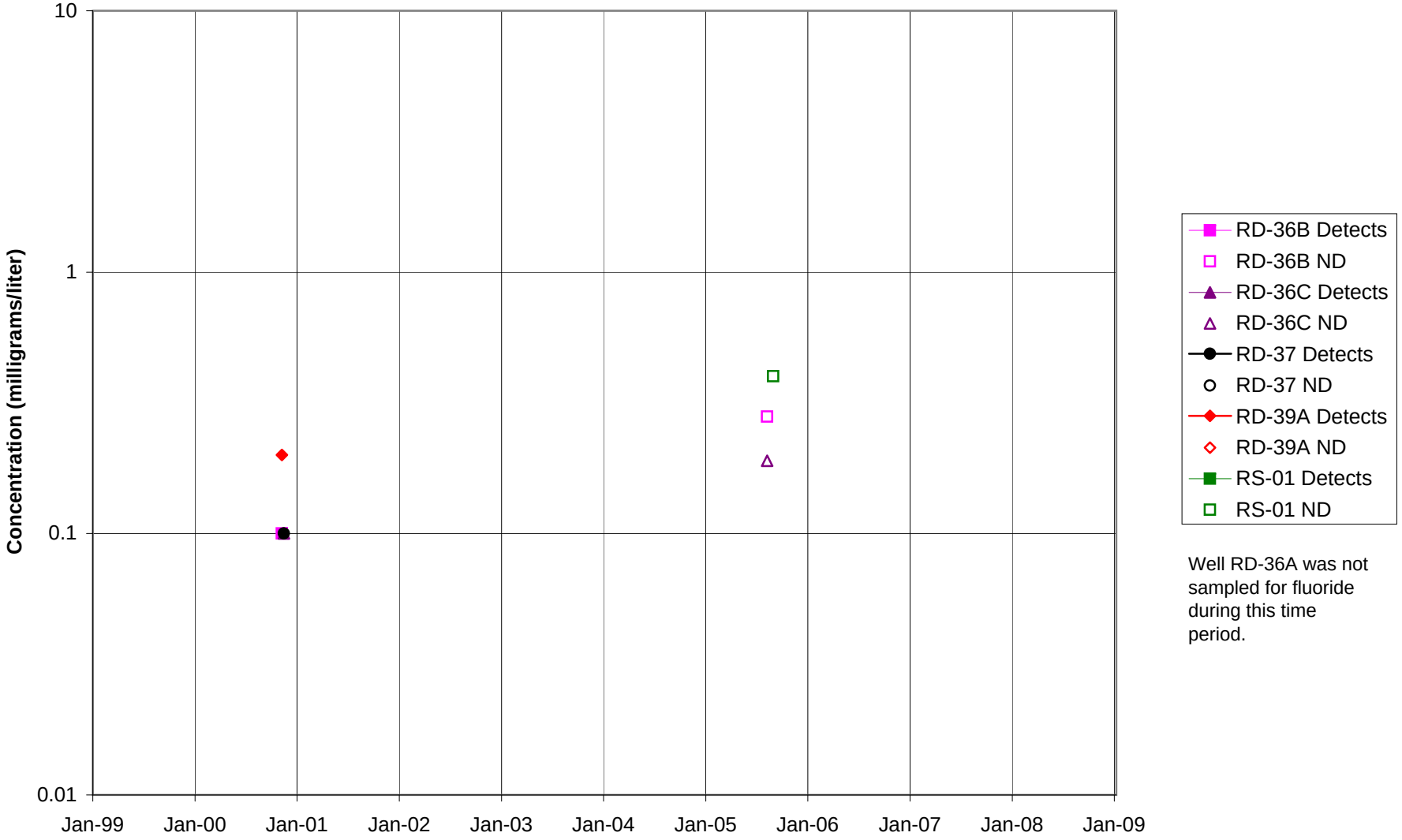


FIGURE F-189. FLUORIDE in MAIN GATE AREA WELLS - 1



Well RD-36A was not sampled for fluoride during this time period.

FIGURE F-190. FLUORIDE in MAIN GATE AREA WELLS - 2

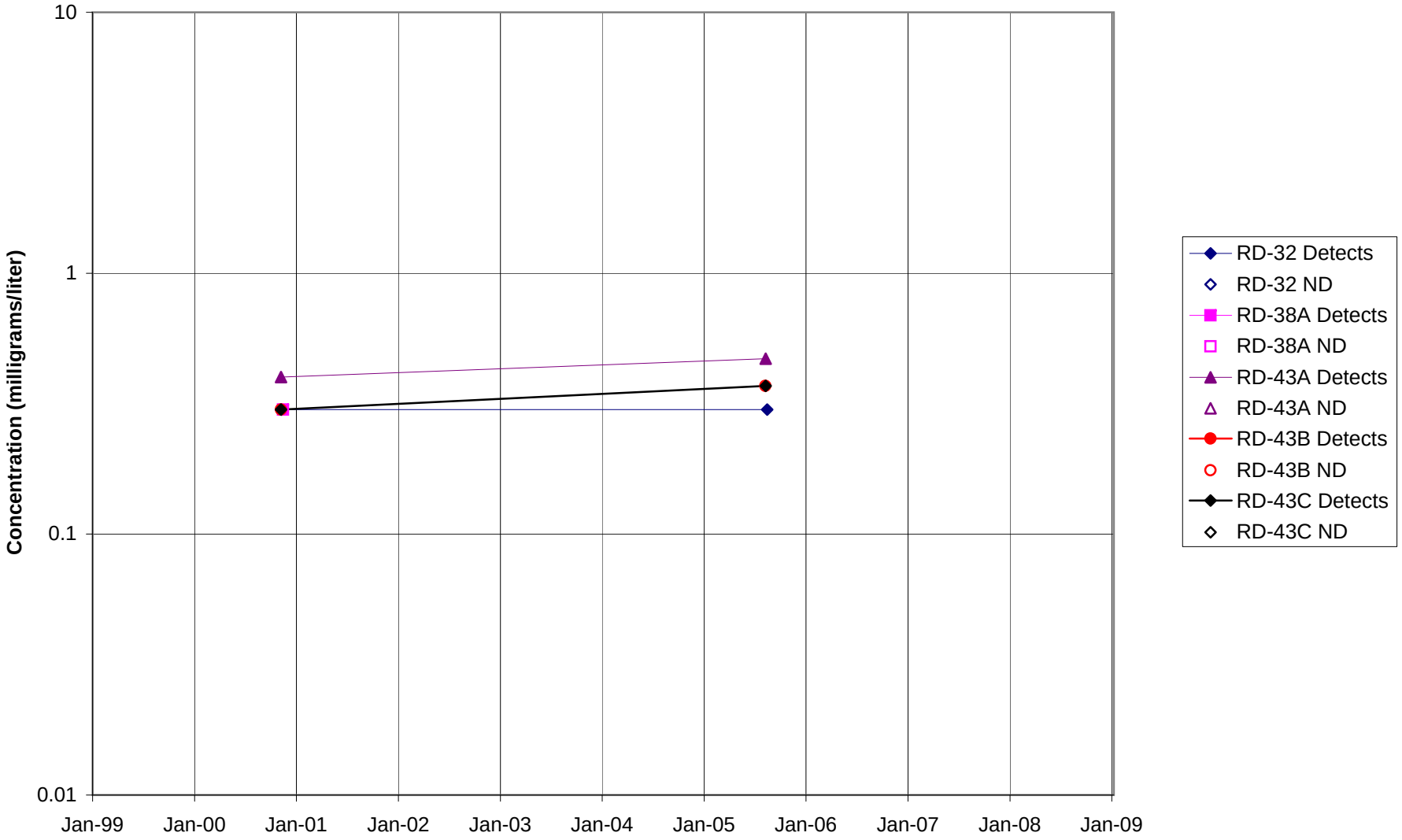


FIGURE F-191. FLUORIDE in APTF, CANYON, & HAPPY VALLEY AREA WELLS - 1

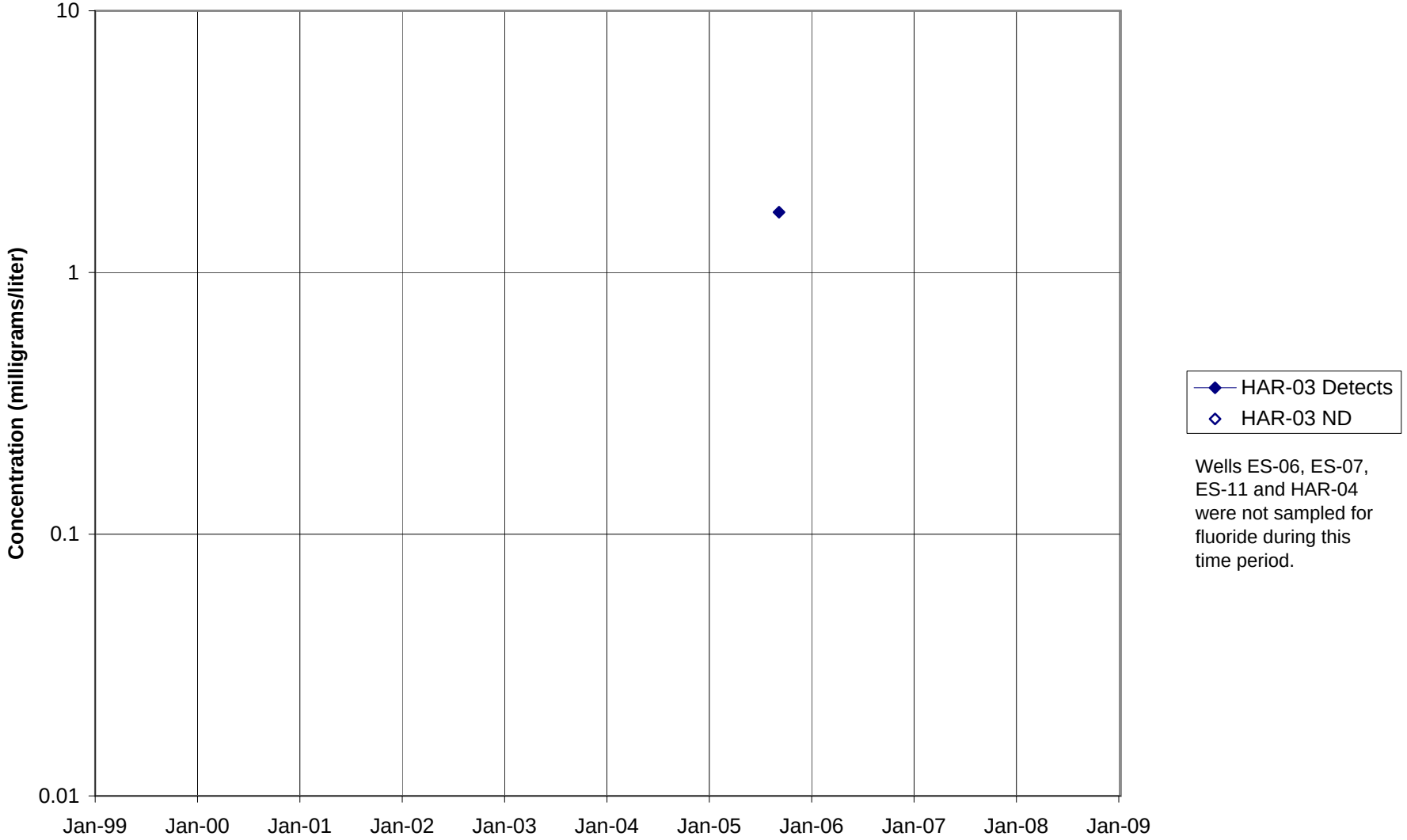


FIGURE F-192. FLUORIDE in APTF, CANYON, & HAPPY VALLEY AREA WELLS - 2

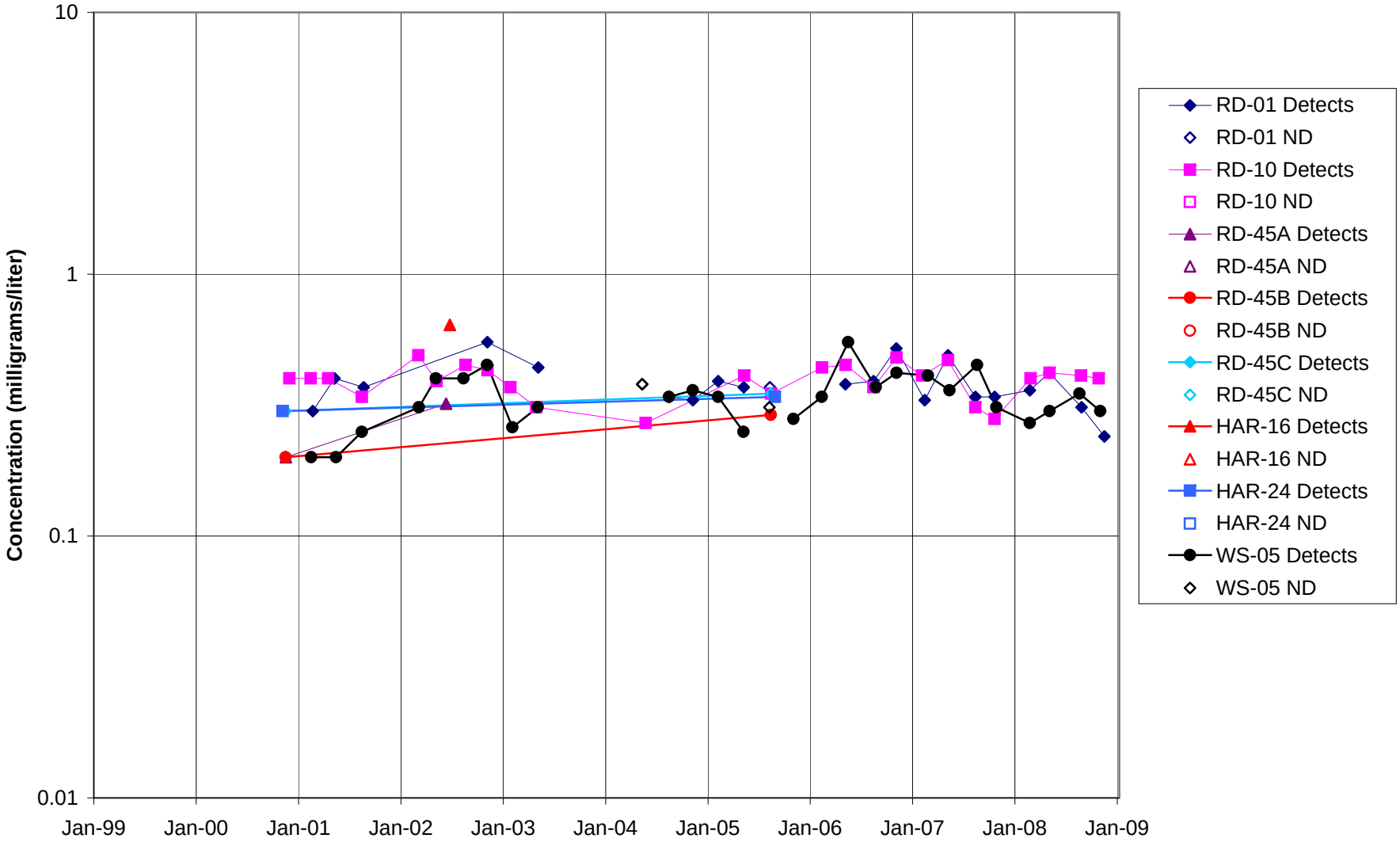


FIGURE F-193. FLUORIDE in CTL-III / PERIMETER POND AREA WELLS

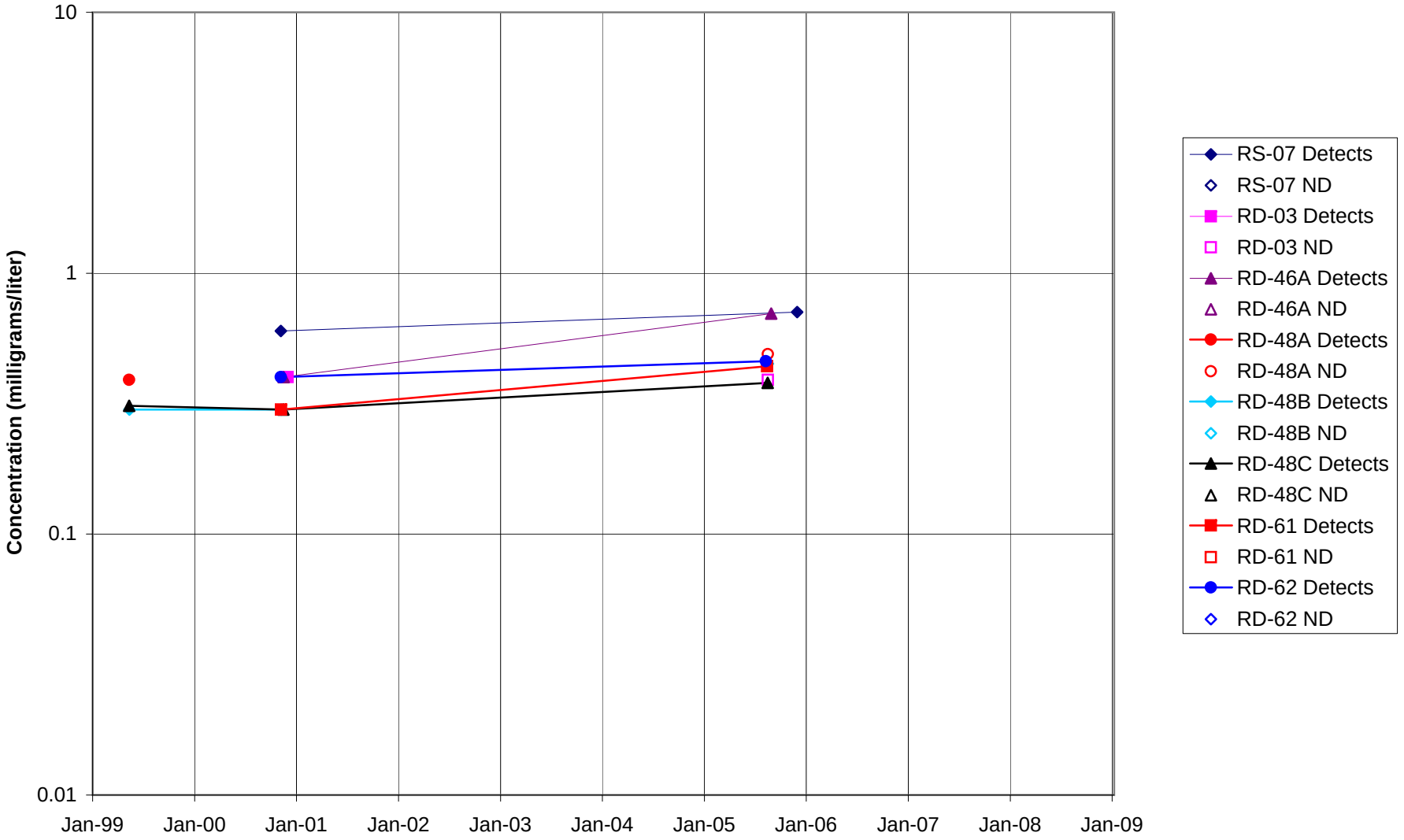
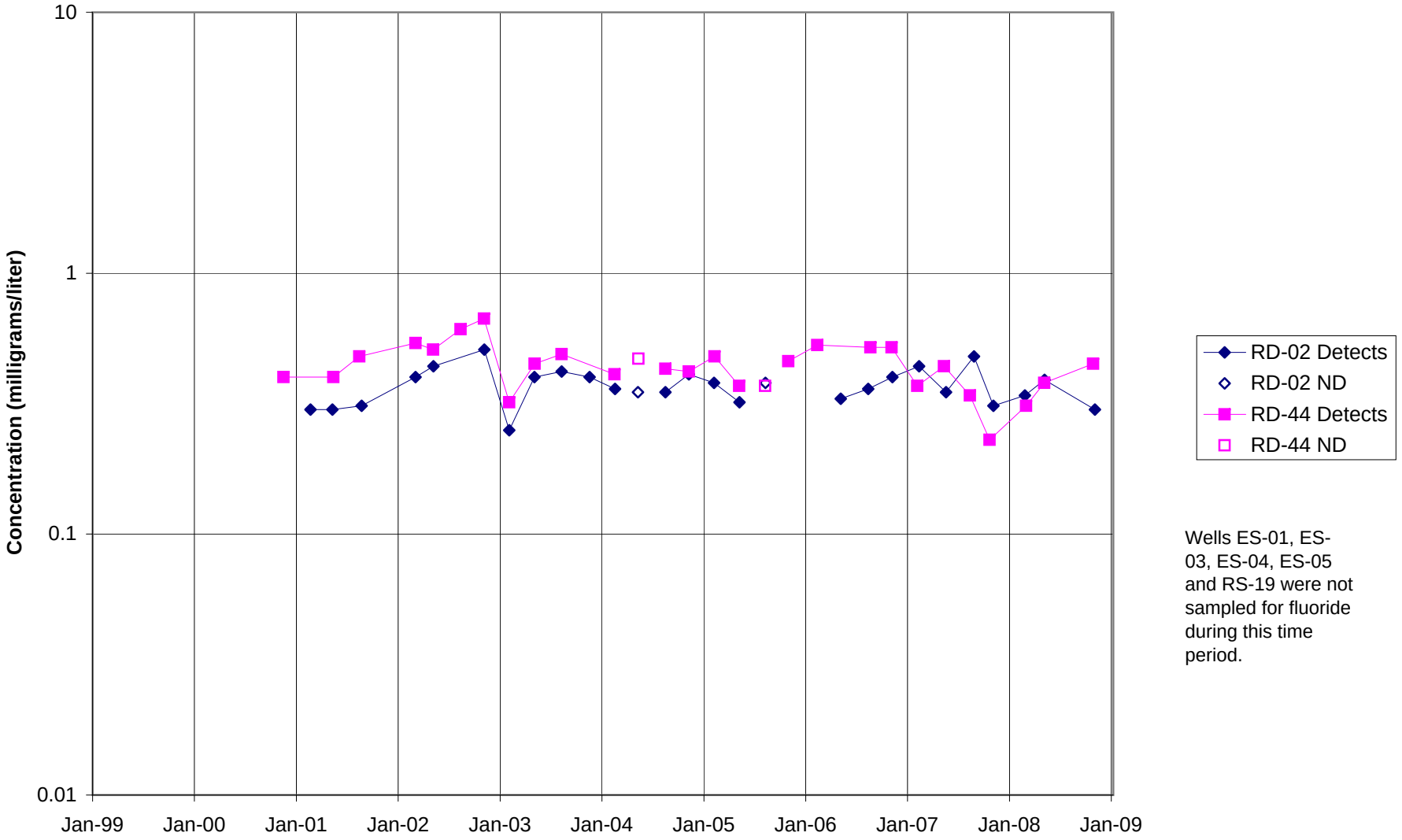
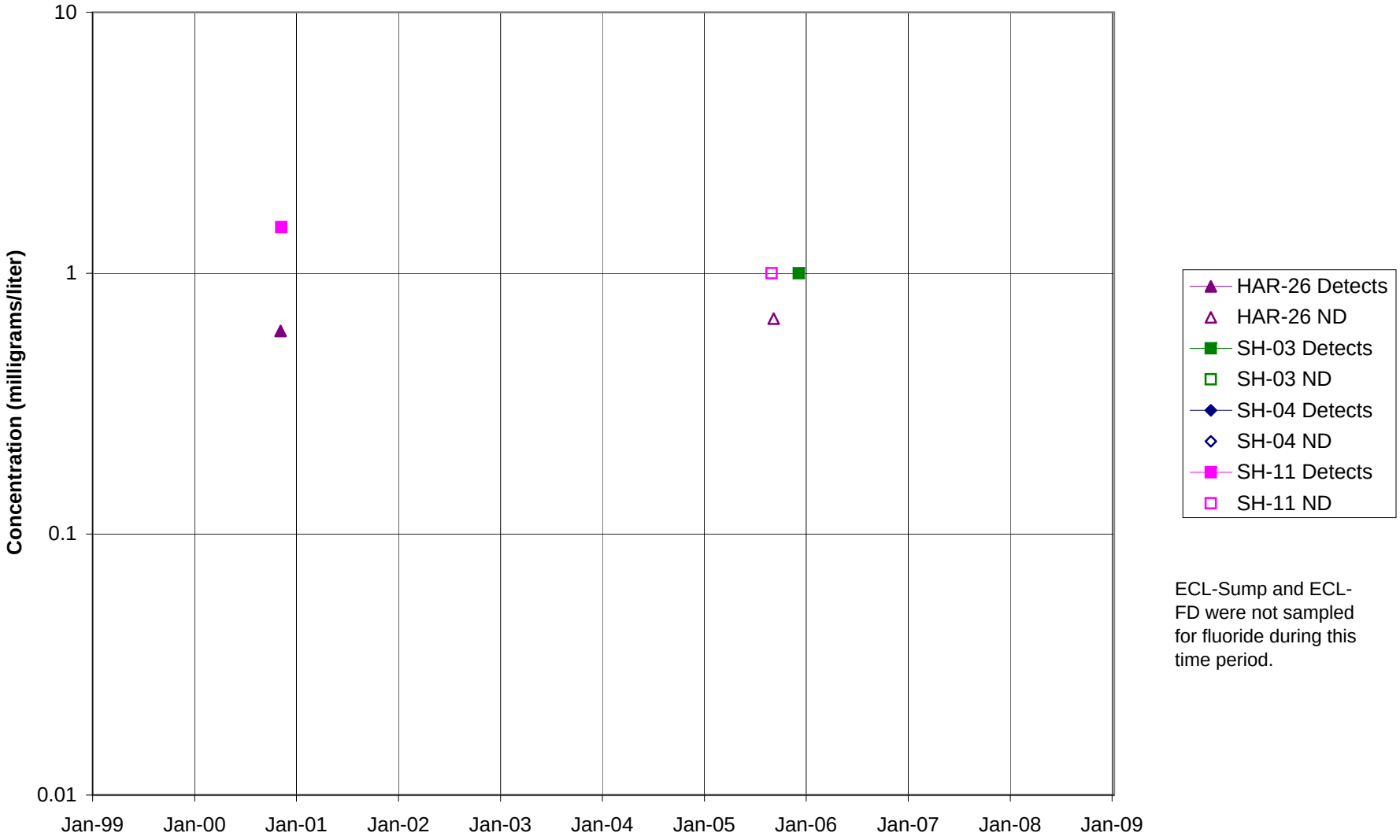


FIGURE F-194. FLUORIDE in BOWL AREA WELLS



Wells ES-01, ES-03, ES-04, ES-05 and RS-19 were not sampled for fluoride during this time period.

FIGURE F-195. FLUORIDE in ECL AREA WELLS



ECL-Sump and ECL-FD were not sampled for fluoride during this time period.

FIGURE F-196. FLUORIDE in FORMER LOX PLANT AREA WELLS

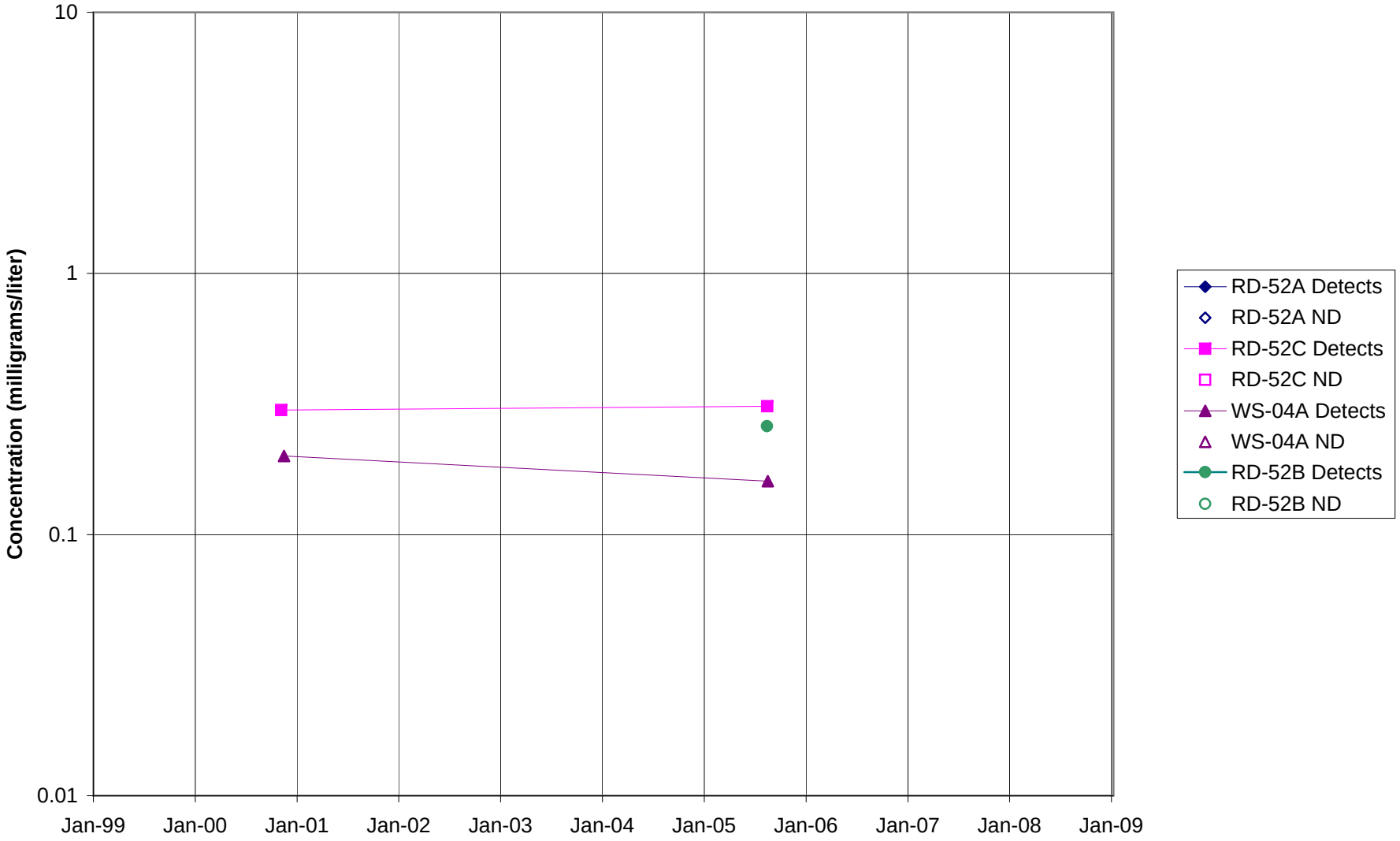
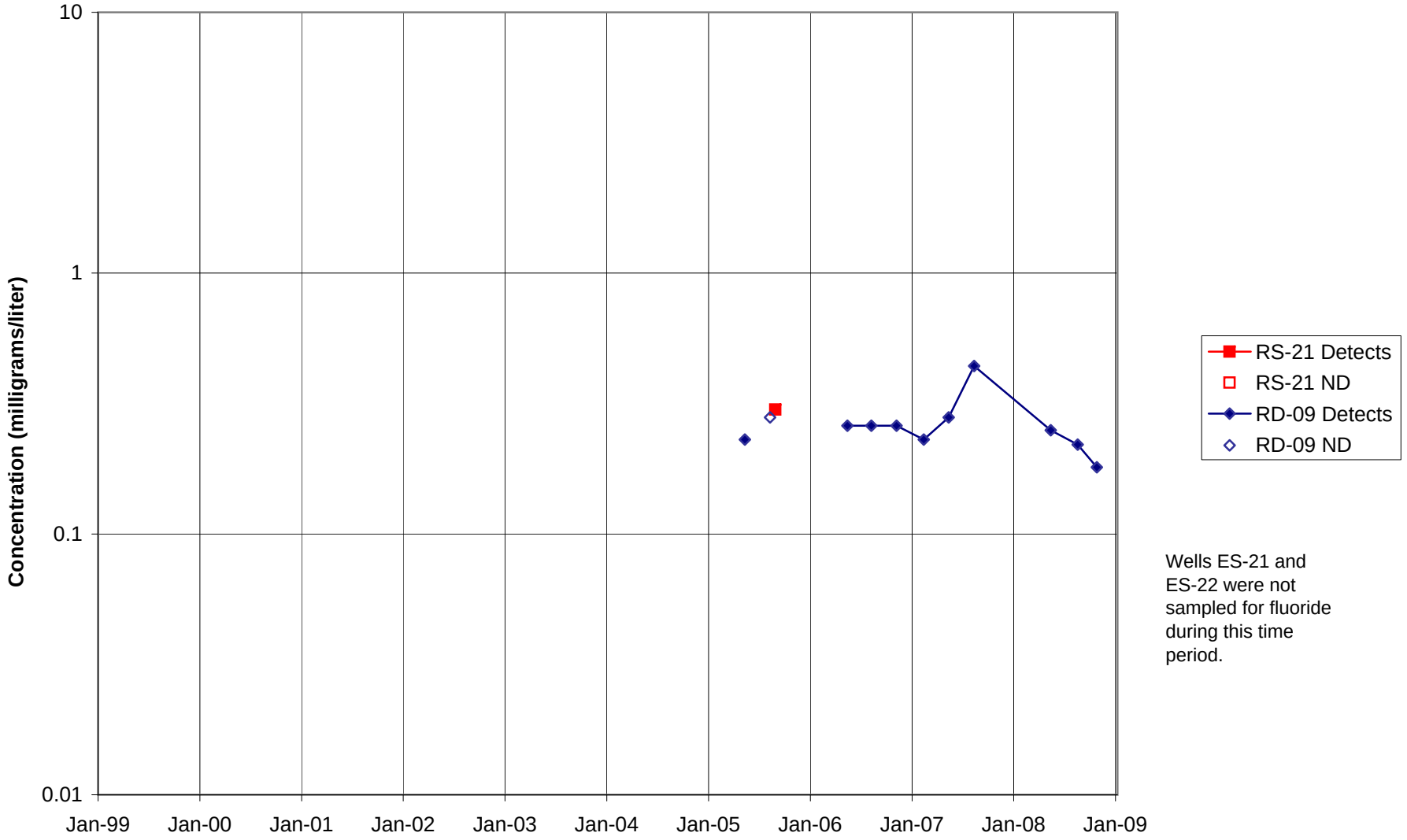
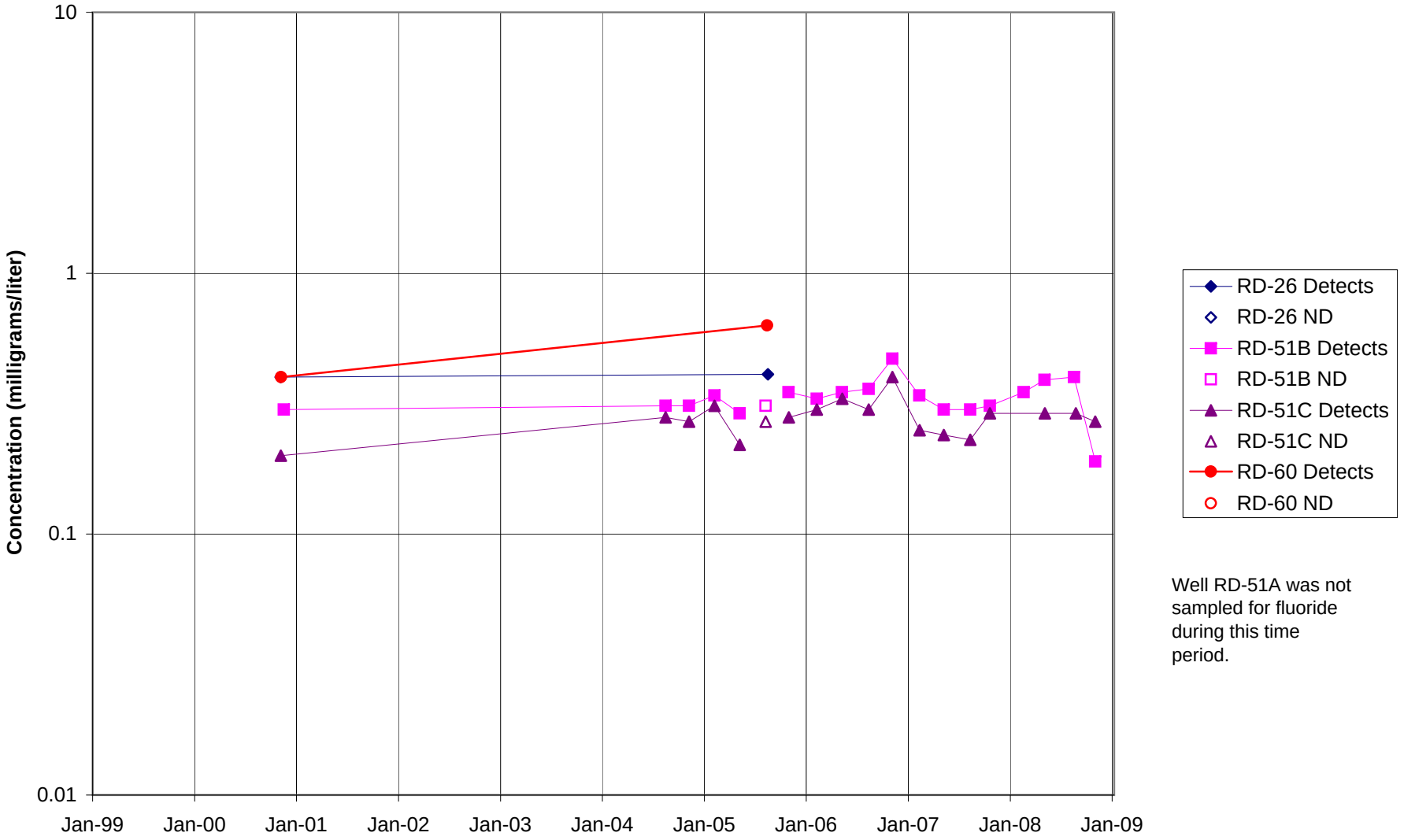


FIGURE F-197. FLUORIDE in RD-09 AREA WELLS



Wells ES-21 and ES-22 were not sampled for fluoride during this time period.

FIGURE F-198. FLUORIDE in HELIPORT, B/204 AREA WELLS



Well RD-51A was not sampled for fluoride during this time period.

FIGURE F-199. FLUORIDE in ALFA / BRAVO AREA WELLS

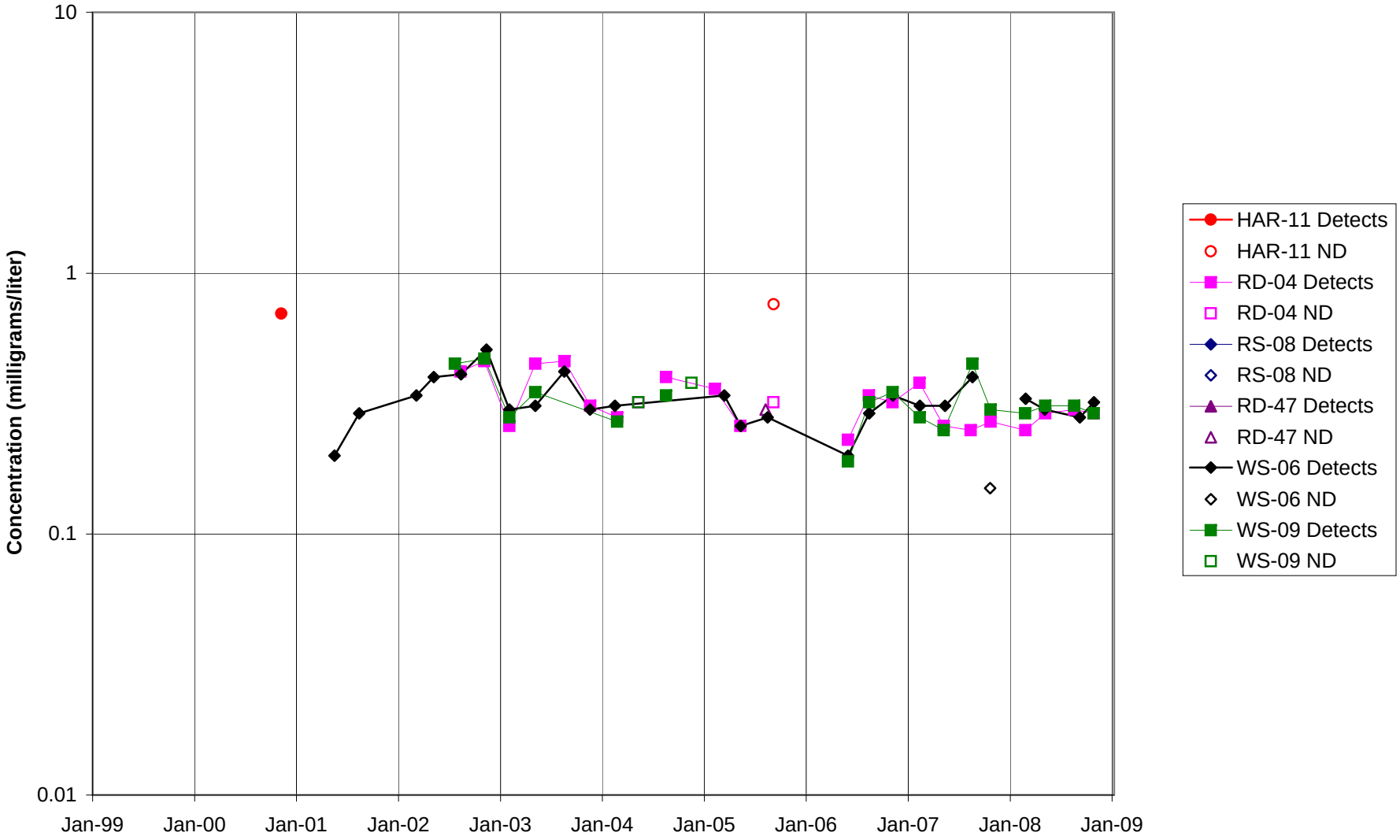
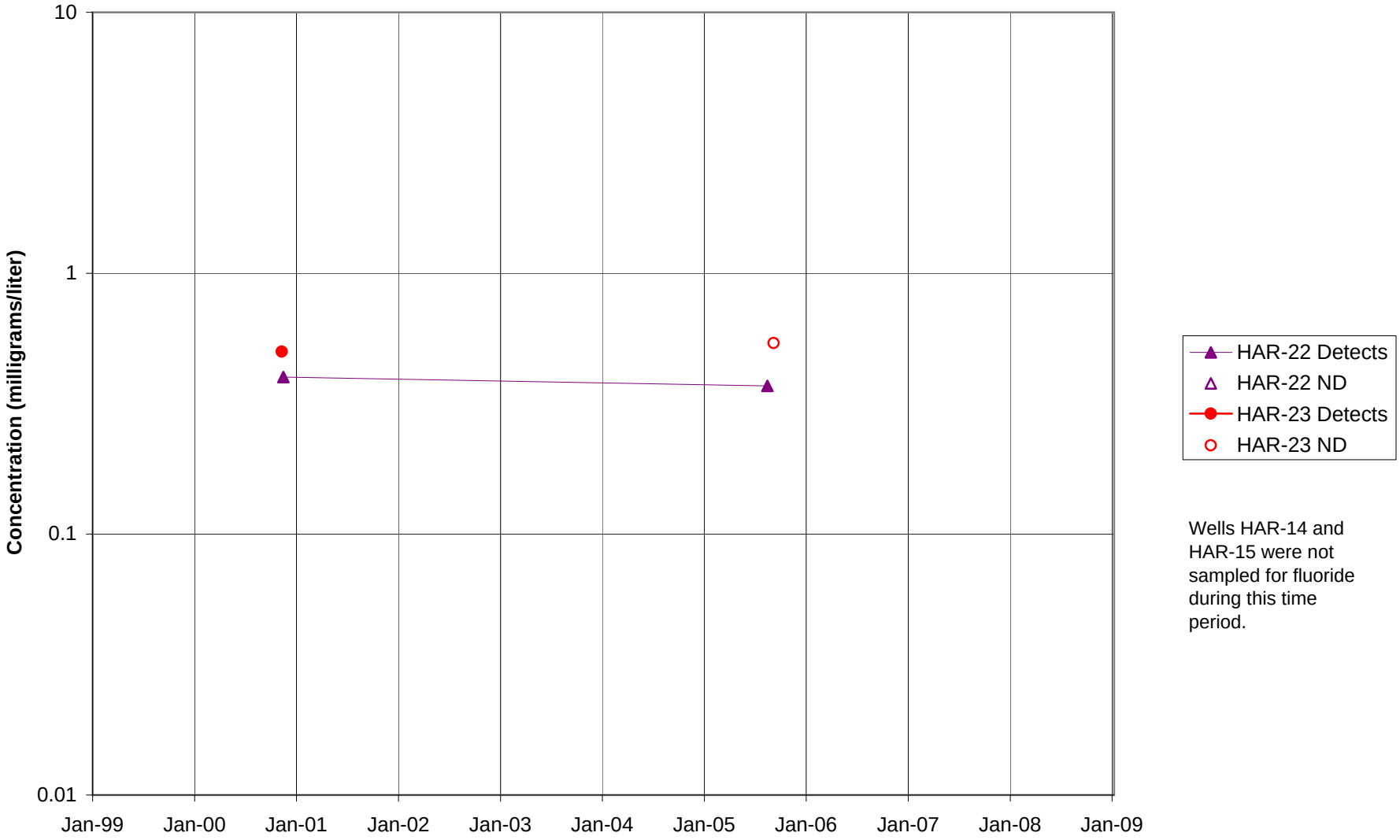
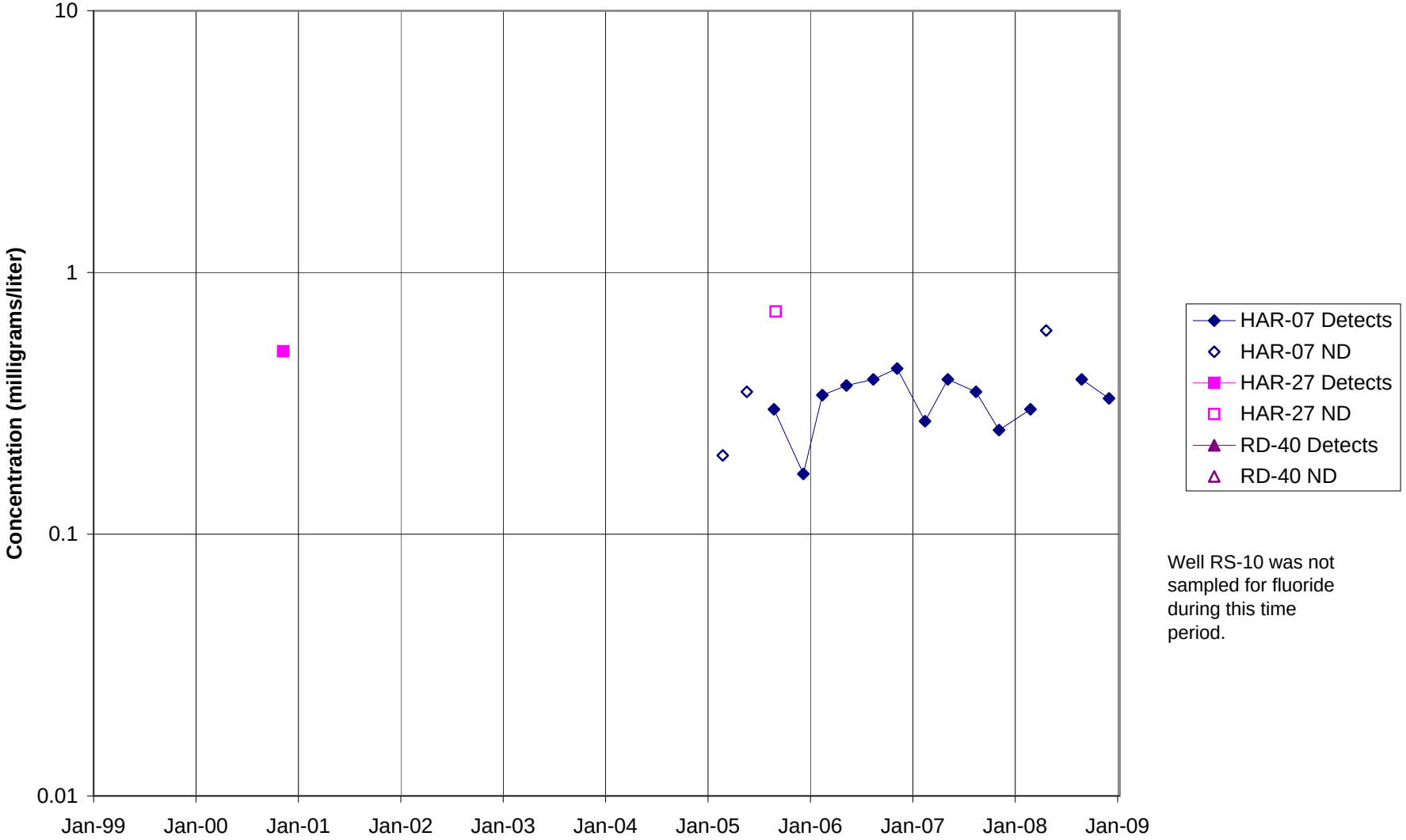


FIGURE F-200. FLUORIDE in SPA AREA WELLS



Wells HAR-14 and HAR-15 were not sampled for fluoride during this time period.

FIGURE F-201. FLUORIDE in COCA / PLF AREA WELLS



Well RS-10 was not sampled for fluoride during this time period.

FIGURE F-202. FLUORIDE in DELTA / BUFFER ZONE AREA WELLS

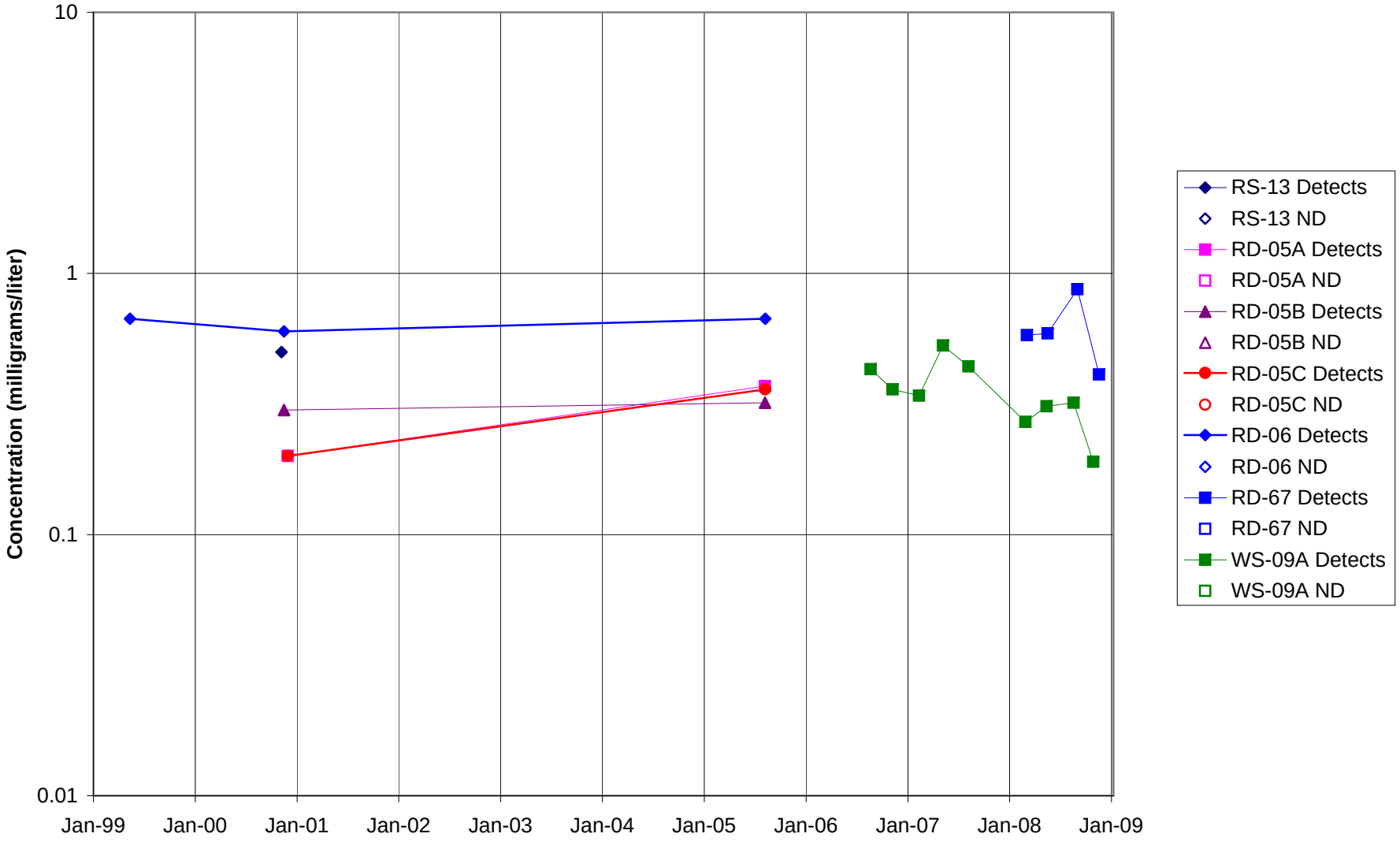


FIGURE F-203. FLUORIDE in AREA IV WELLS

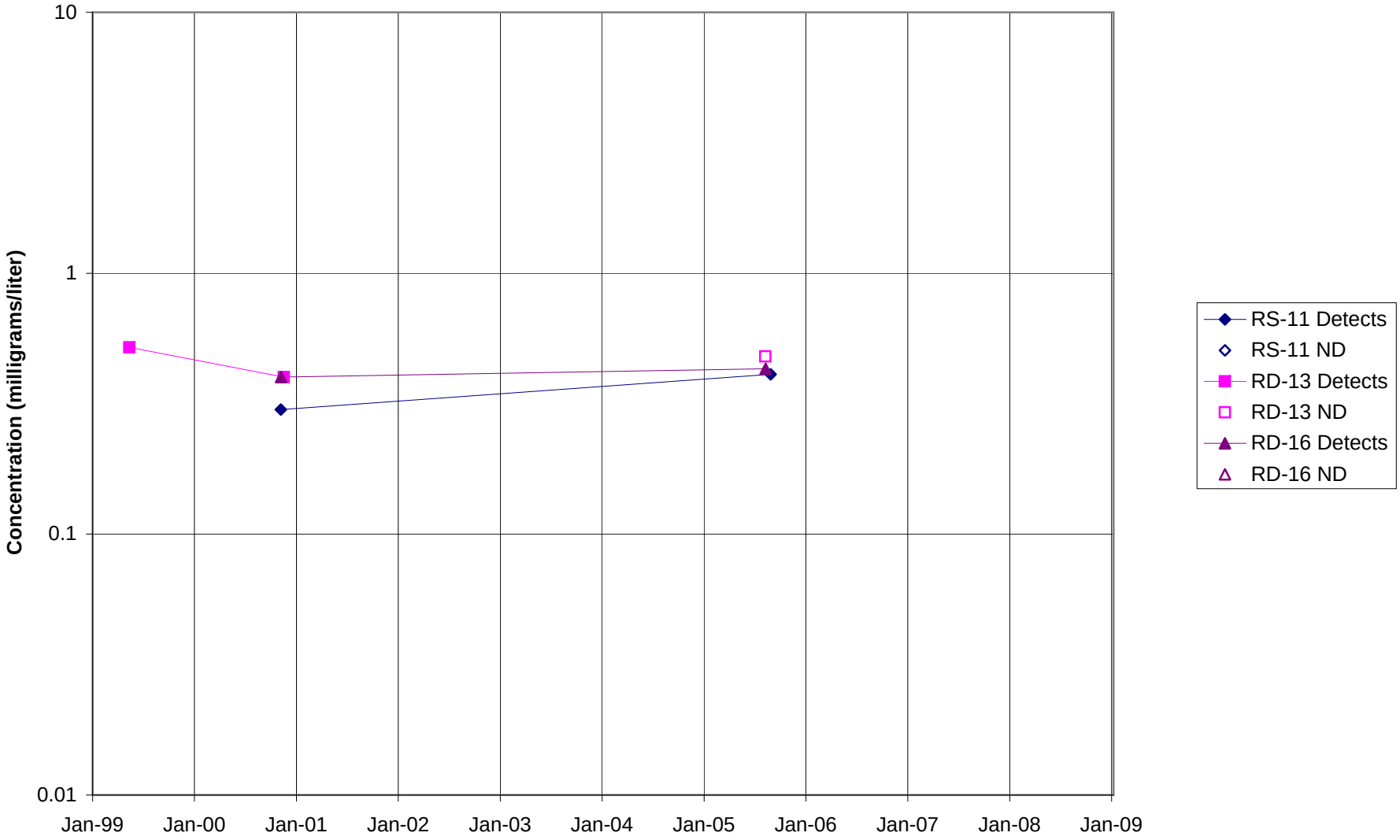


FIGURE F-204. METHYLENE CHLORIDE in STL-IV AREA SHALLOW WELLS

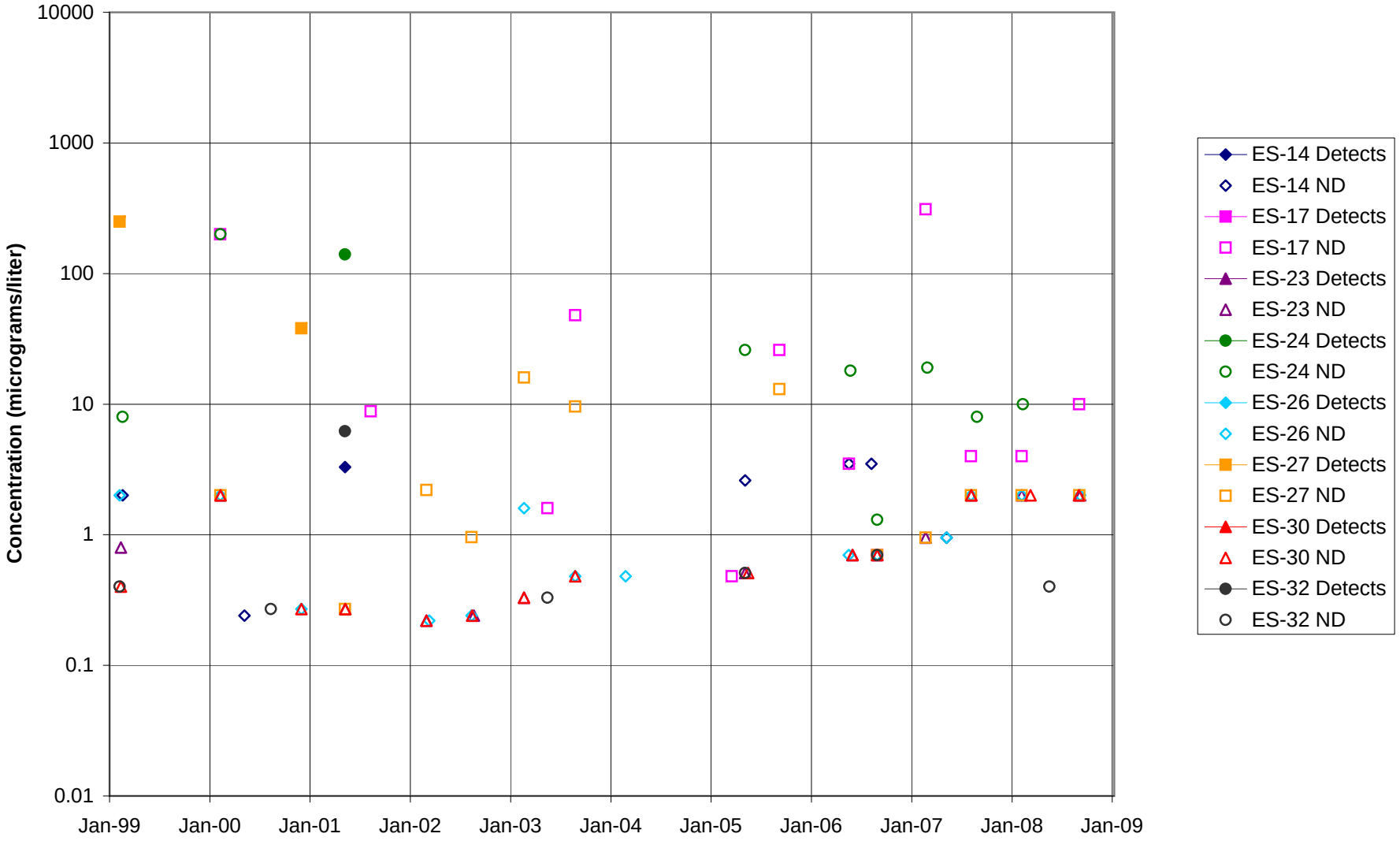


FIGURE F-205. METHYLENE CHLORIDE in STL-IV AREA CHATSWORTH FORMATION WELLS

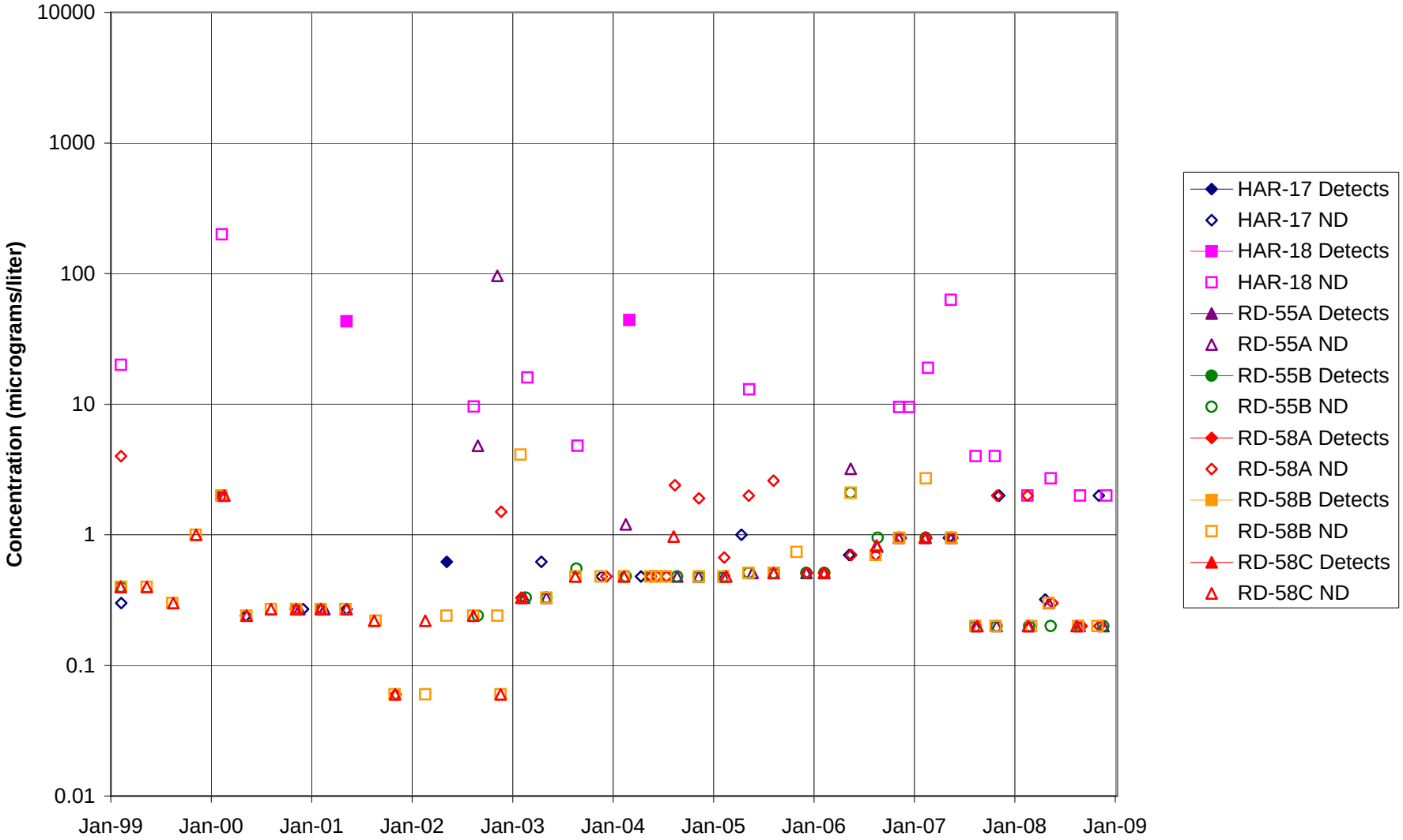


FIGURE F-206. METHYLENE CHLORIDE in MAIN GATE AREA WELLS - 1

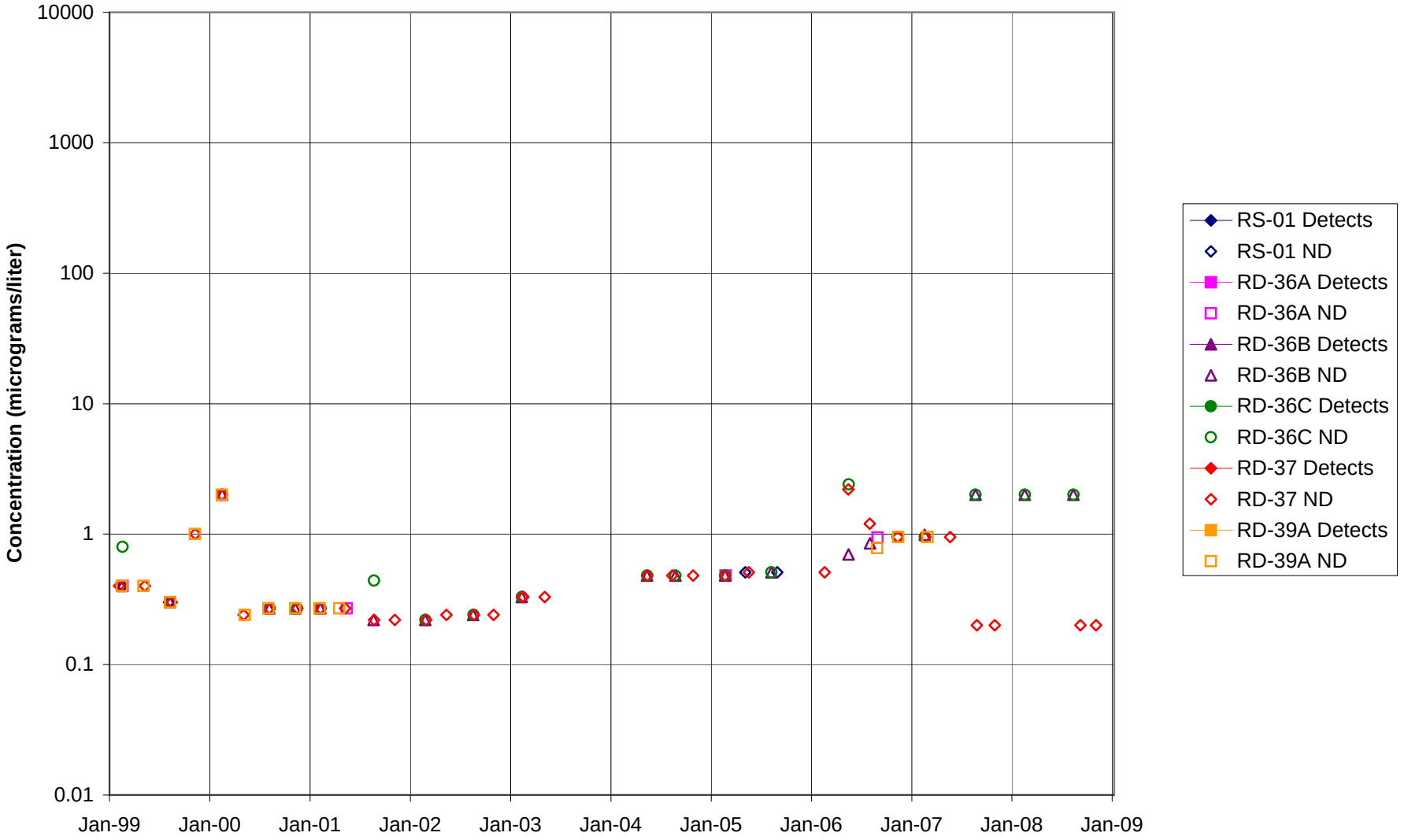


FIGURE F-207. METHYLENE CHLORIDE in MAIN GATE AREA WELLS - 2

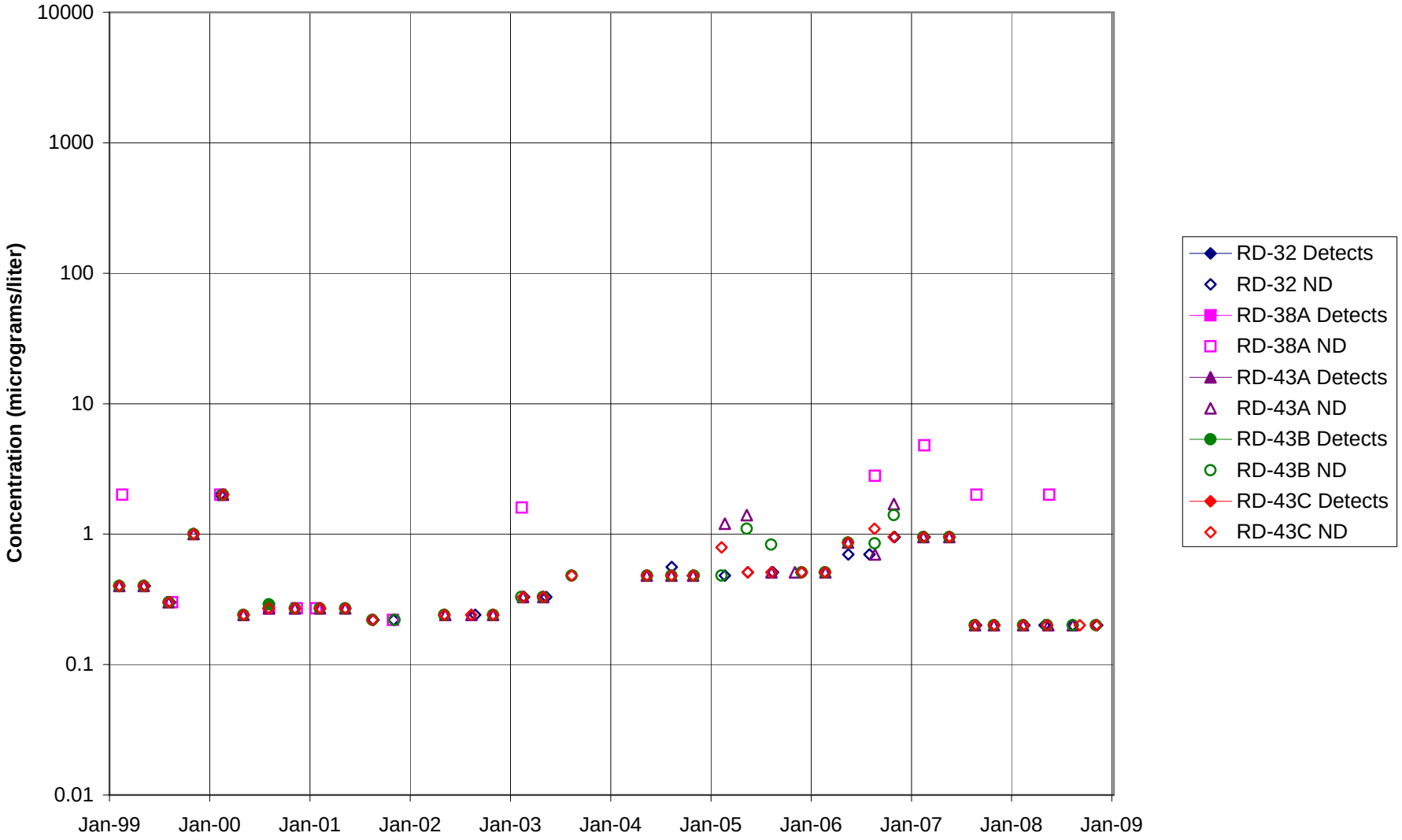


FIGURE F-208. METHYLENE CHLORIDE in APTF, CANYON, & HAPPY VALLEY AREA WELLS - 1

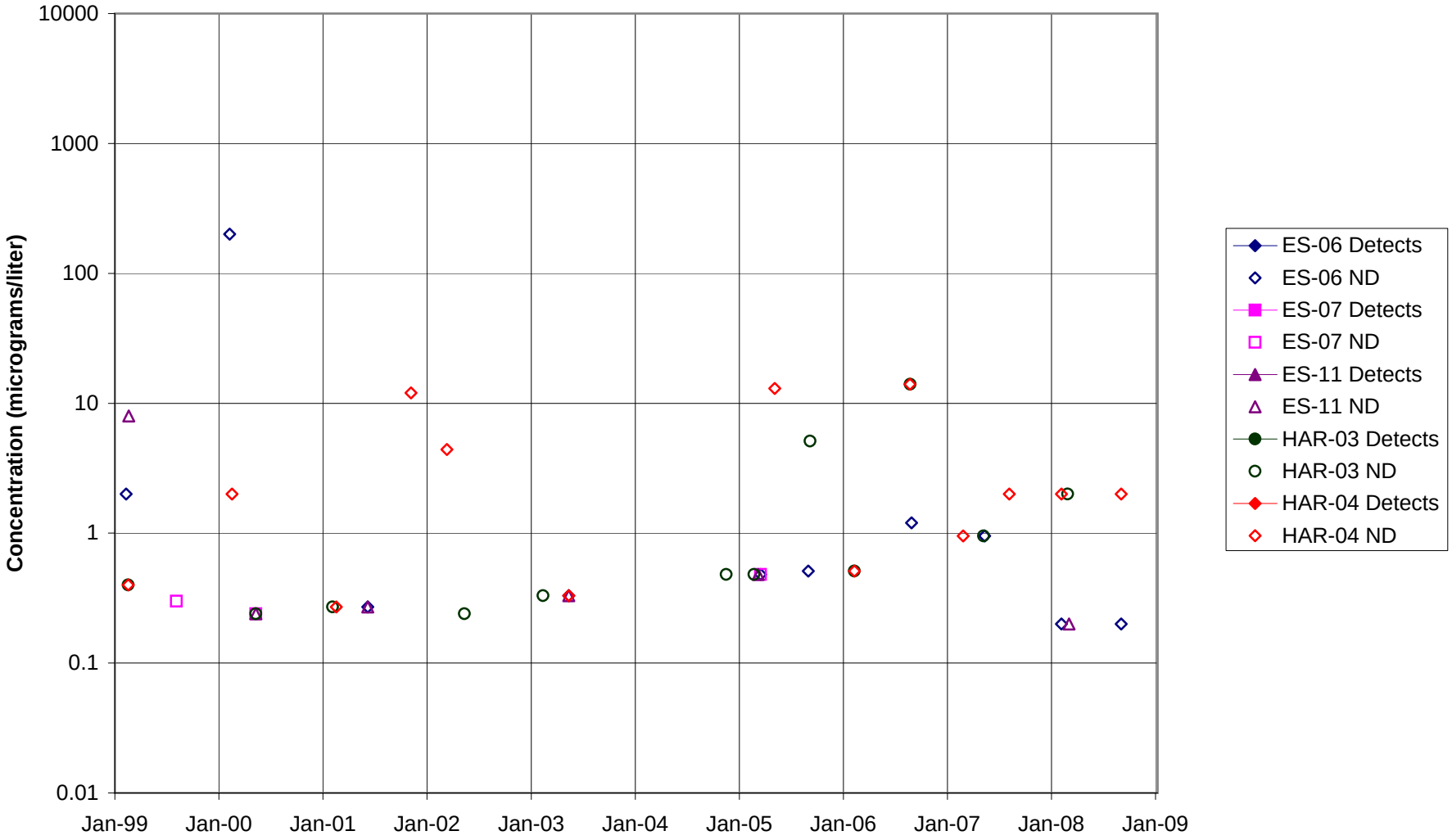


FIGURE F-209. METHYLENE CHLORIDE in APTF, CANYON, & HAPPY VALLEY AREA WELLS - 2

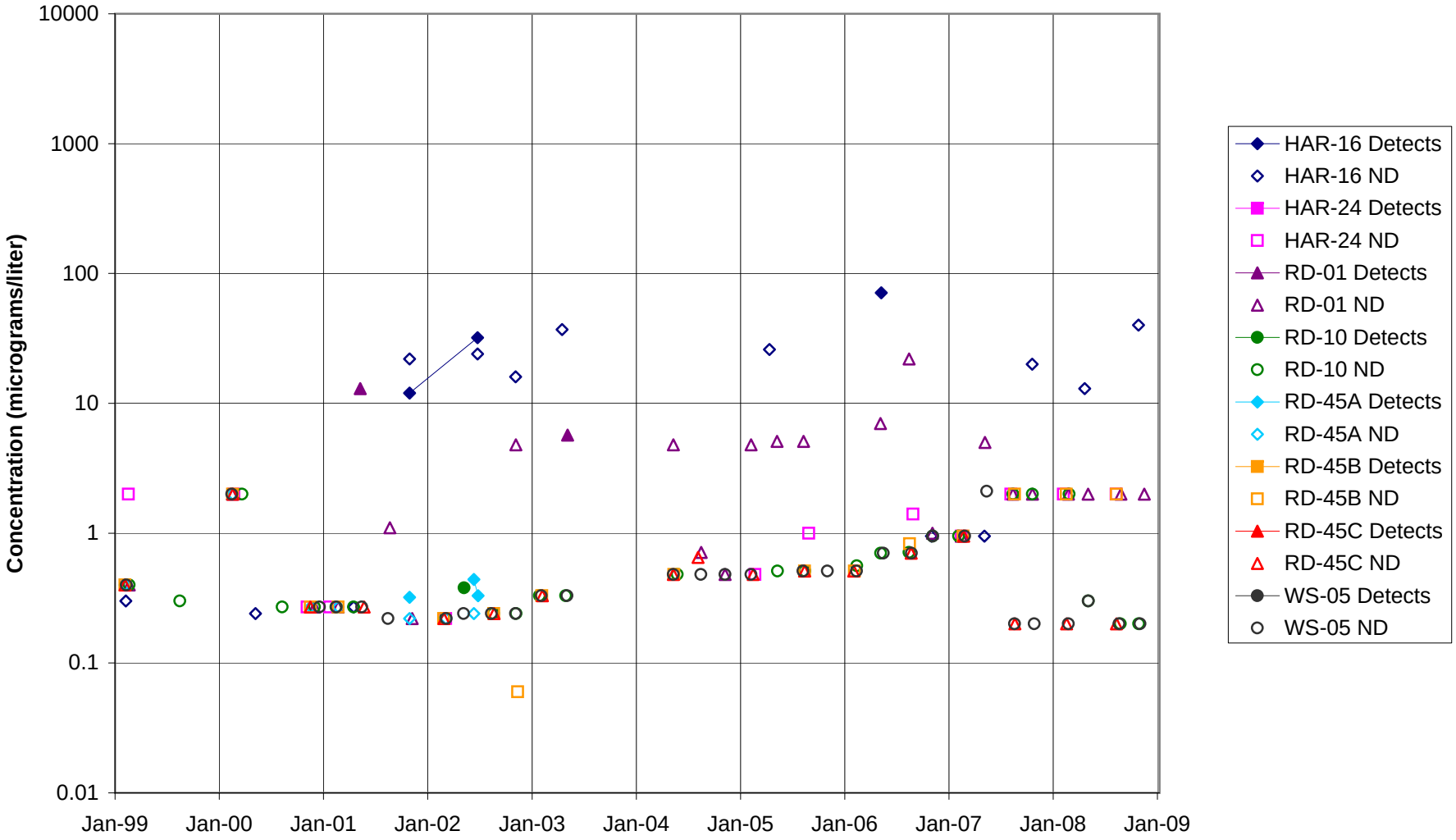


FIGURE F-210. METHYLENE CHLORIDE in CTL-III / PERIMETER POND AREA WELLS

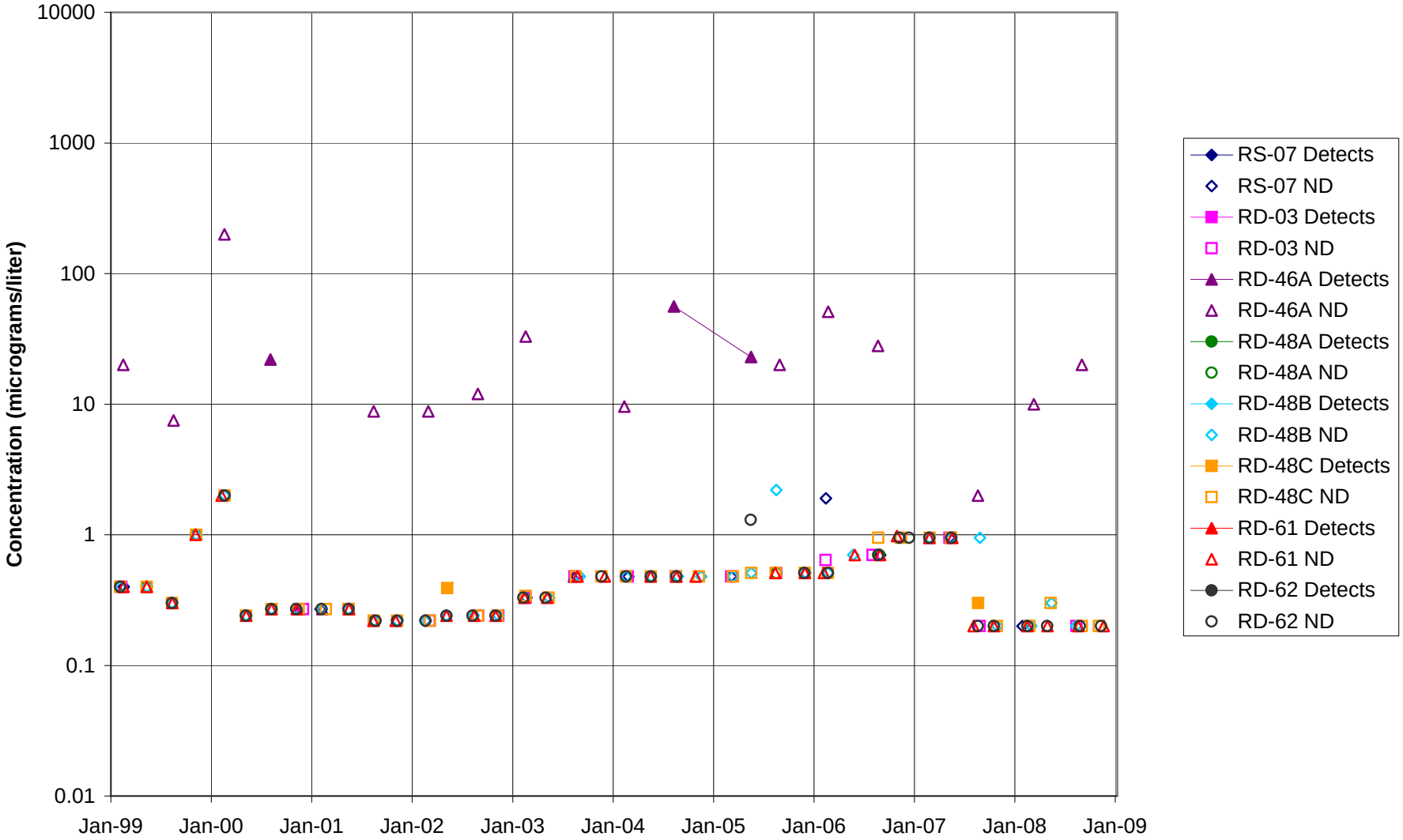


FIGURE F-211. METHYLENE CHLORIDE in BOWL AREA WELLS

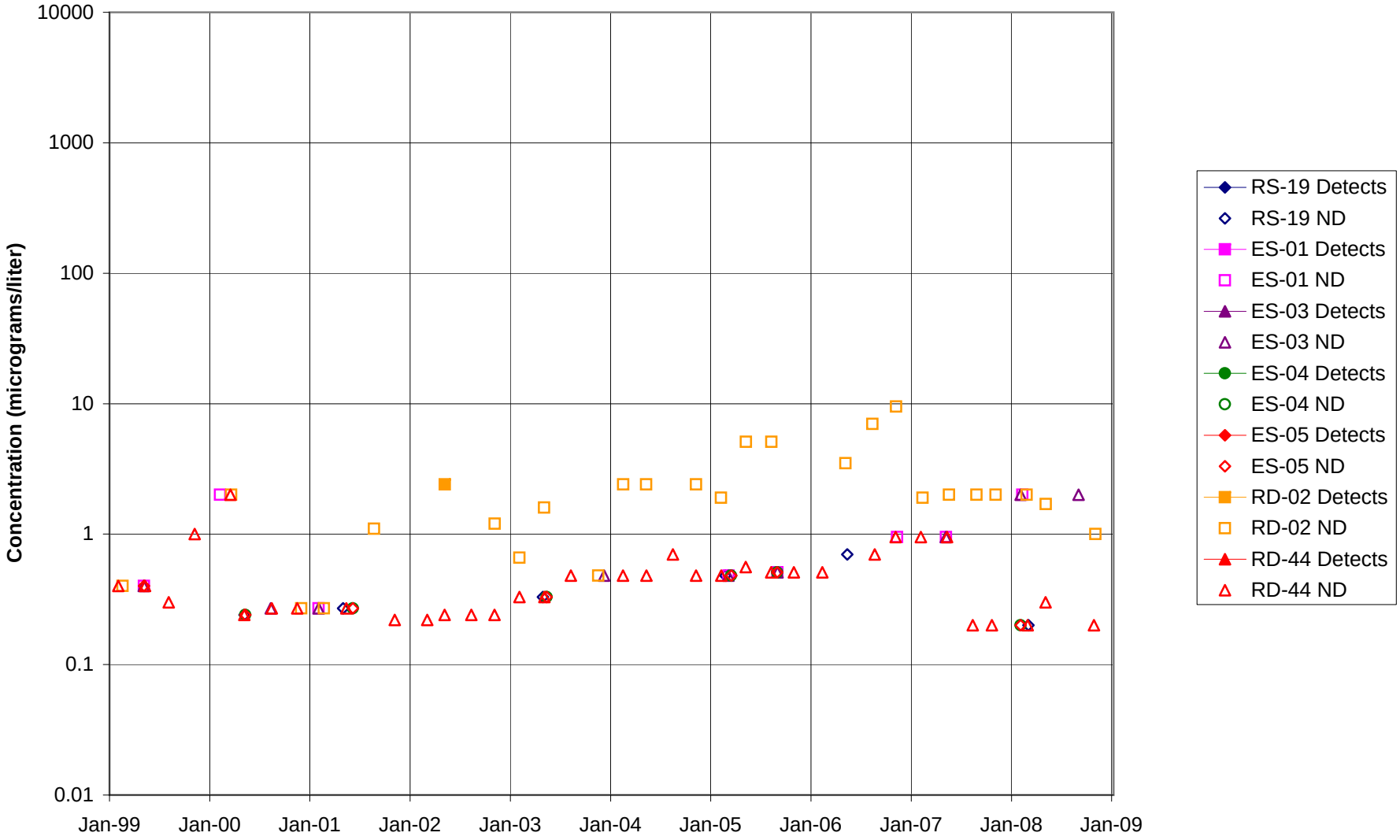


FIGURE F-212. METHYLENE CHLORIDE in ECL AREA WELLS

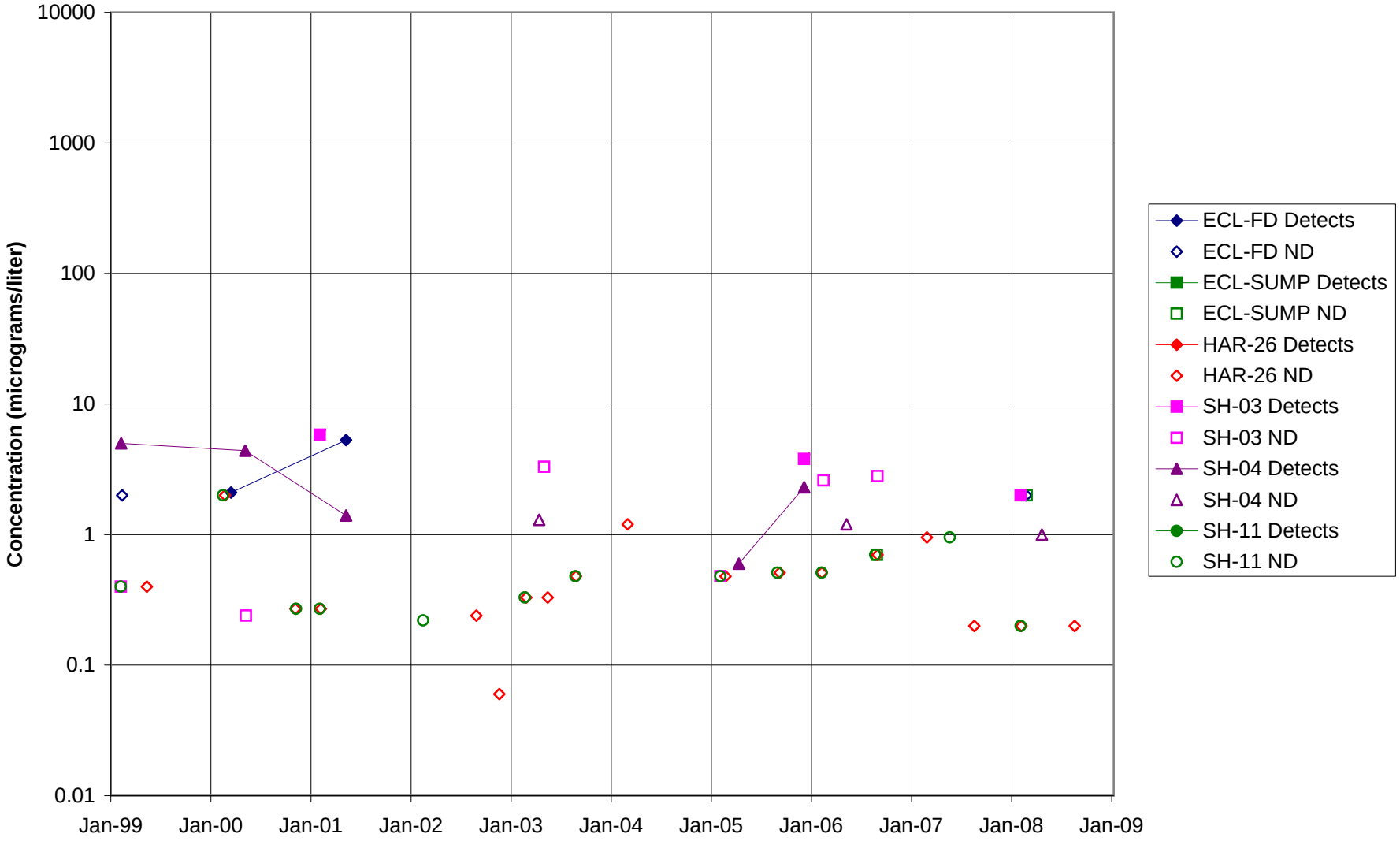


FIGURE F-213. METHYLENE CHLORIDE in FORMER LOX PLANT AREA WELLS

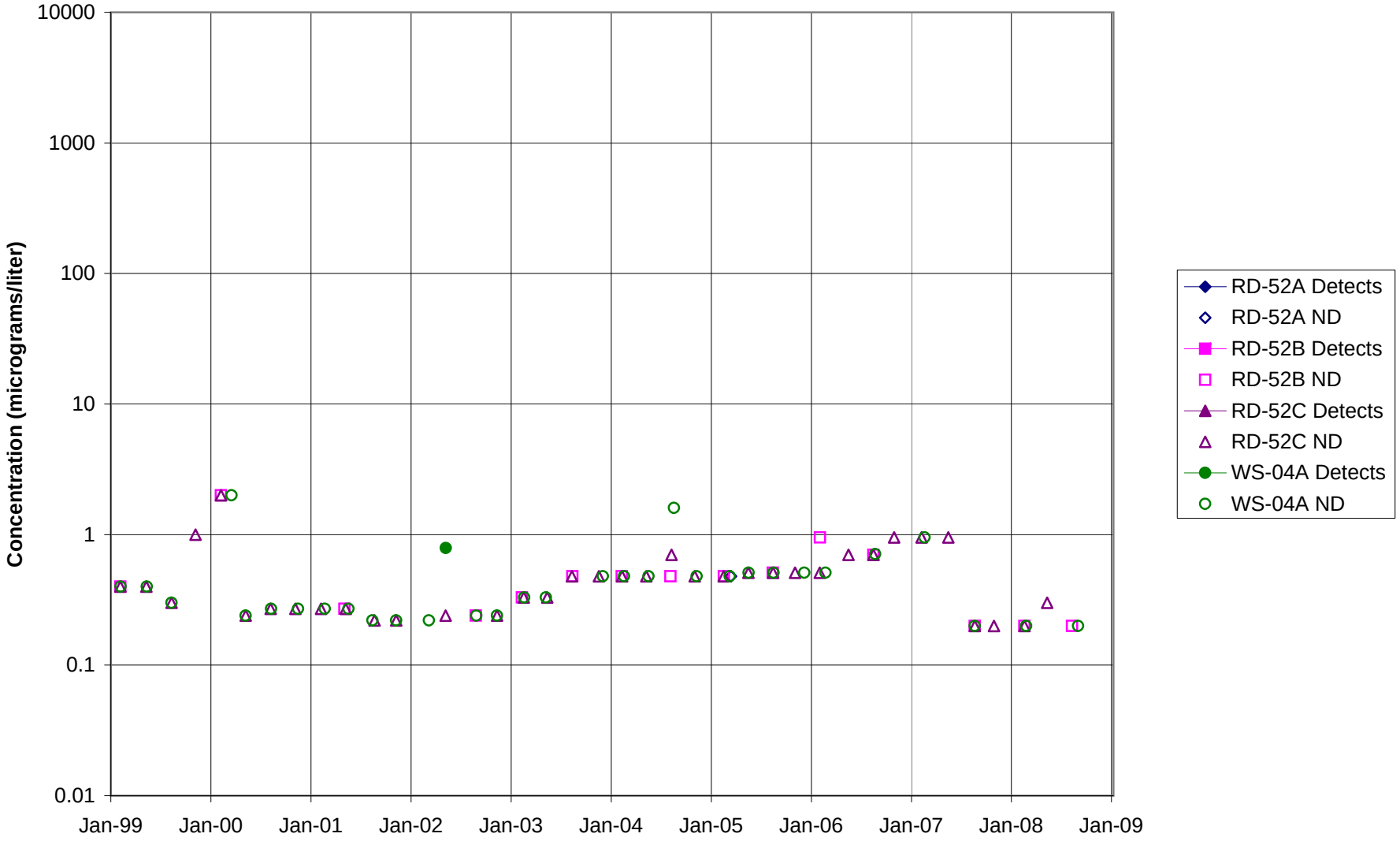


FIGURE F-214. METHYLENE CHLORIDE in RD-09 AREA WELLS

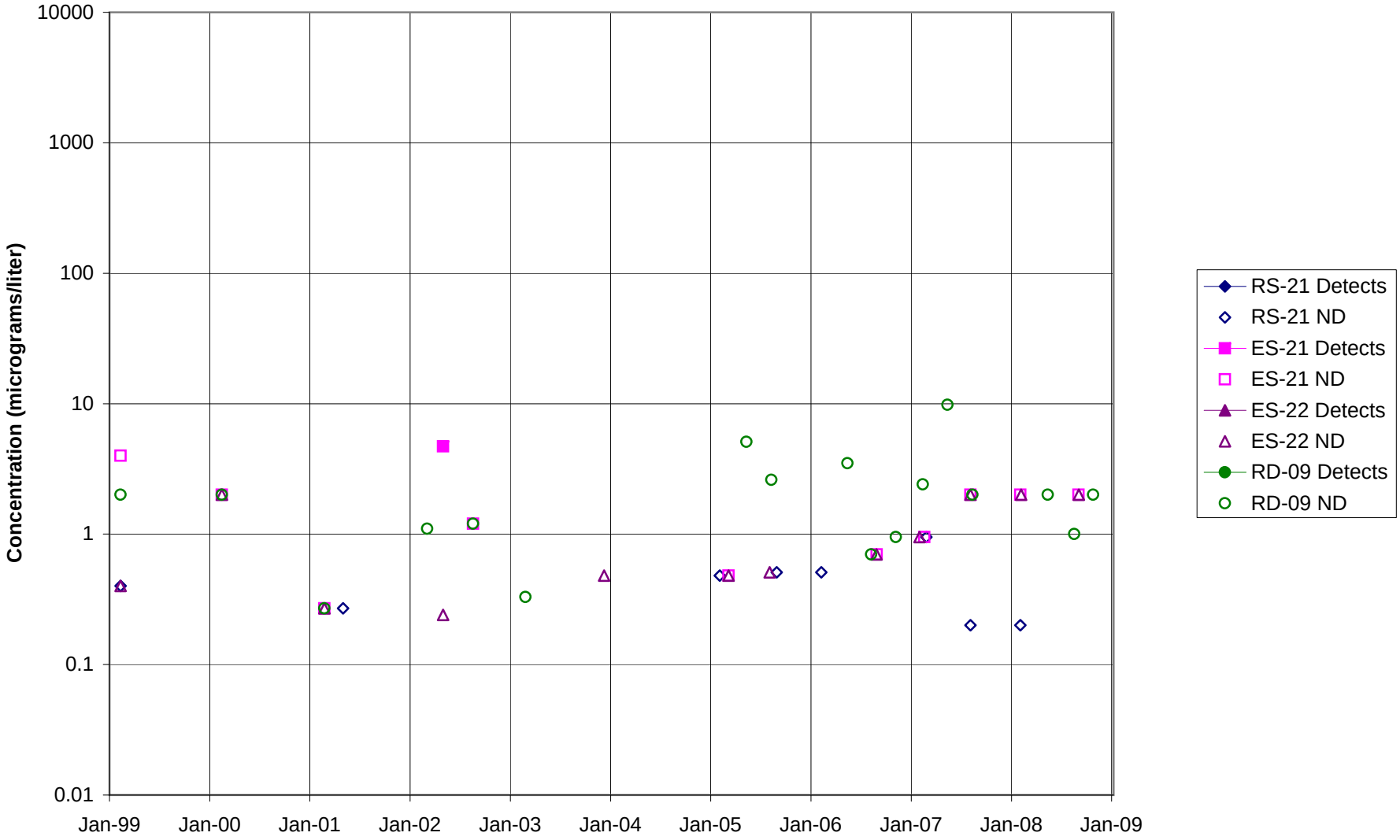


FIGURE F-215. METHYLENE CHLORIDE in HELIPORT, B/204 AREA WELLS

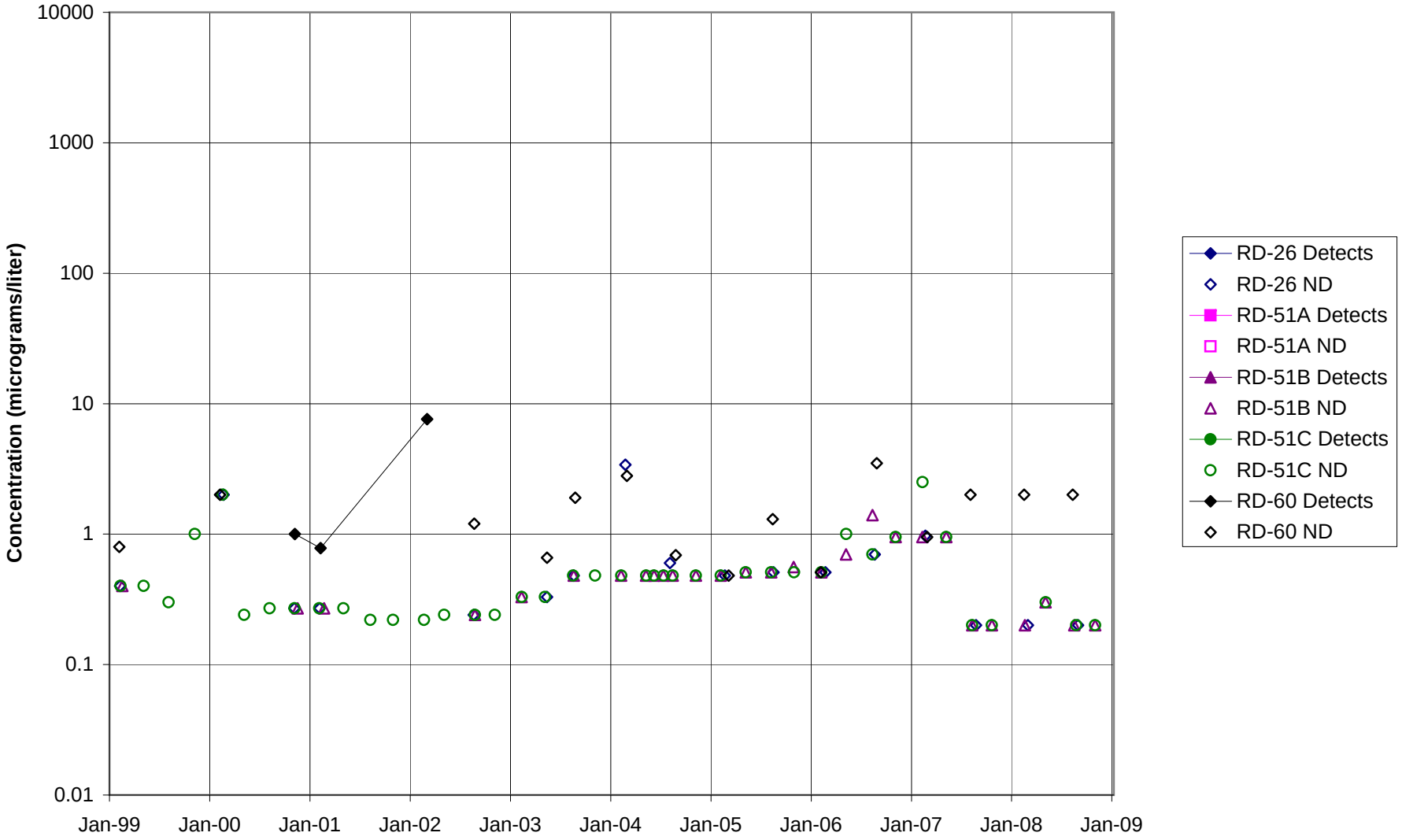


FIGURE F-216. METHYLENE CHLORIDE in ALFA / BRAVO AREA WELLS

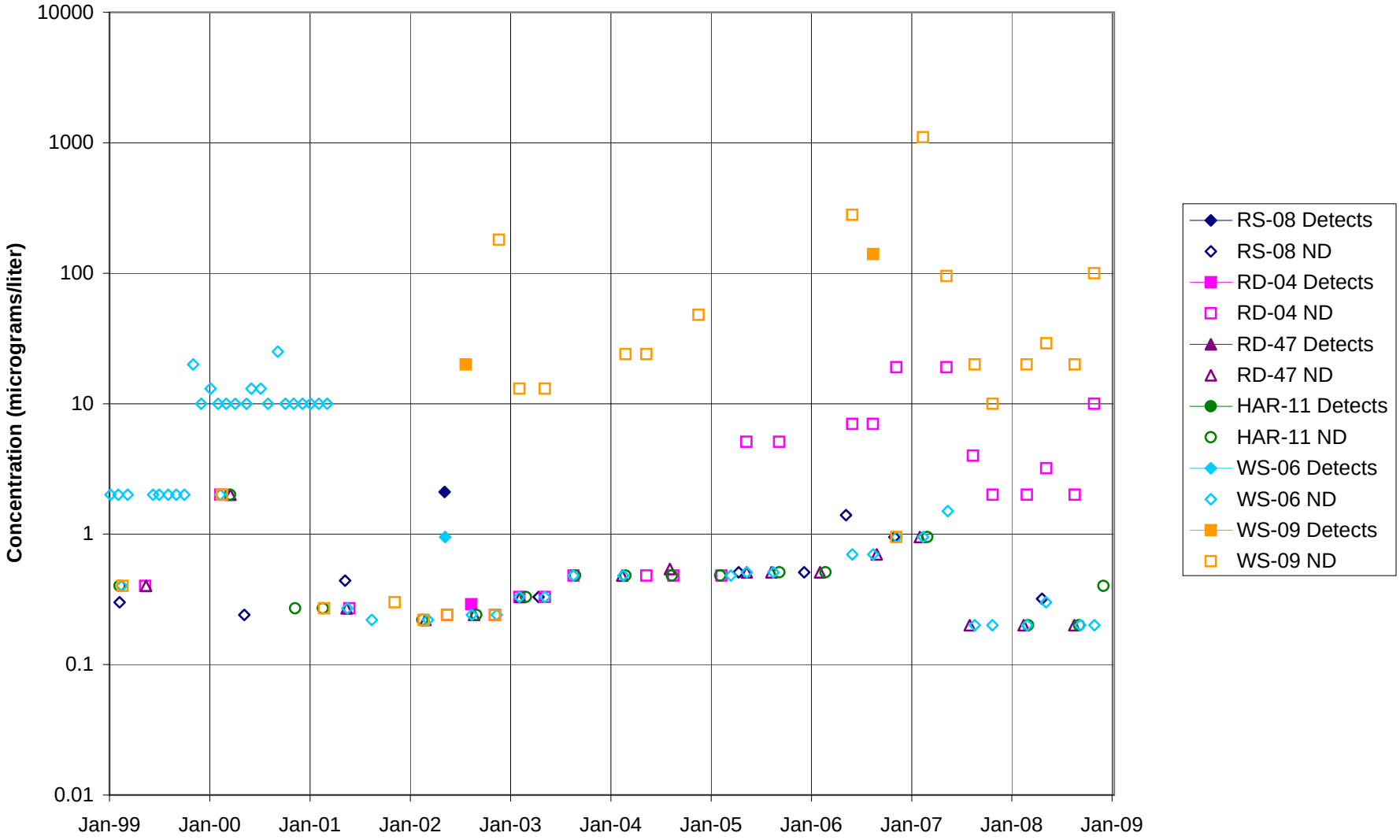


FIGURE F-217. METHYLENE CHLORIDE in SPA AREA WELLS

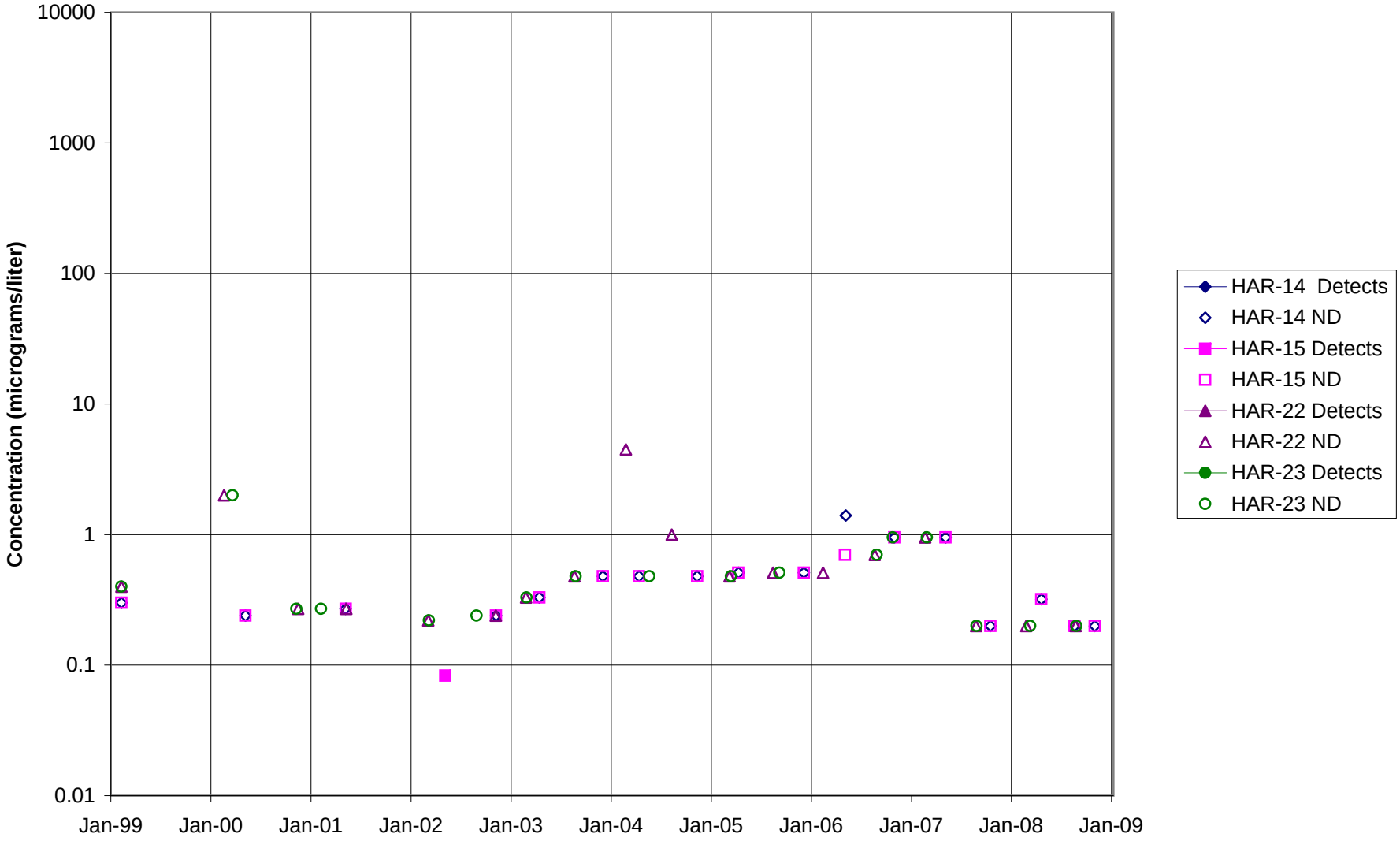


FIGURE F-218. METHYLENE CHLORIDE in COCA / PLF AREA WELLS

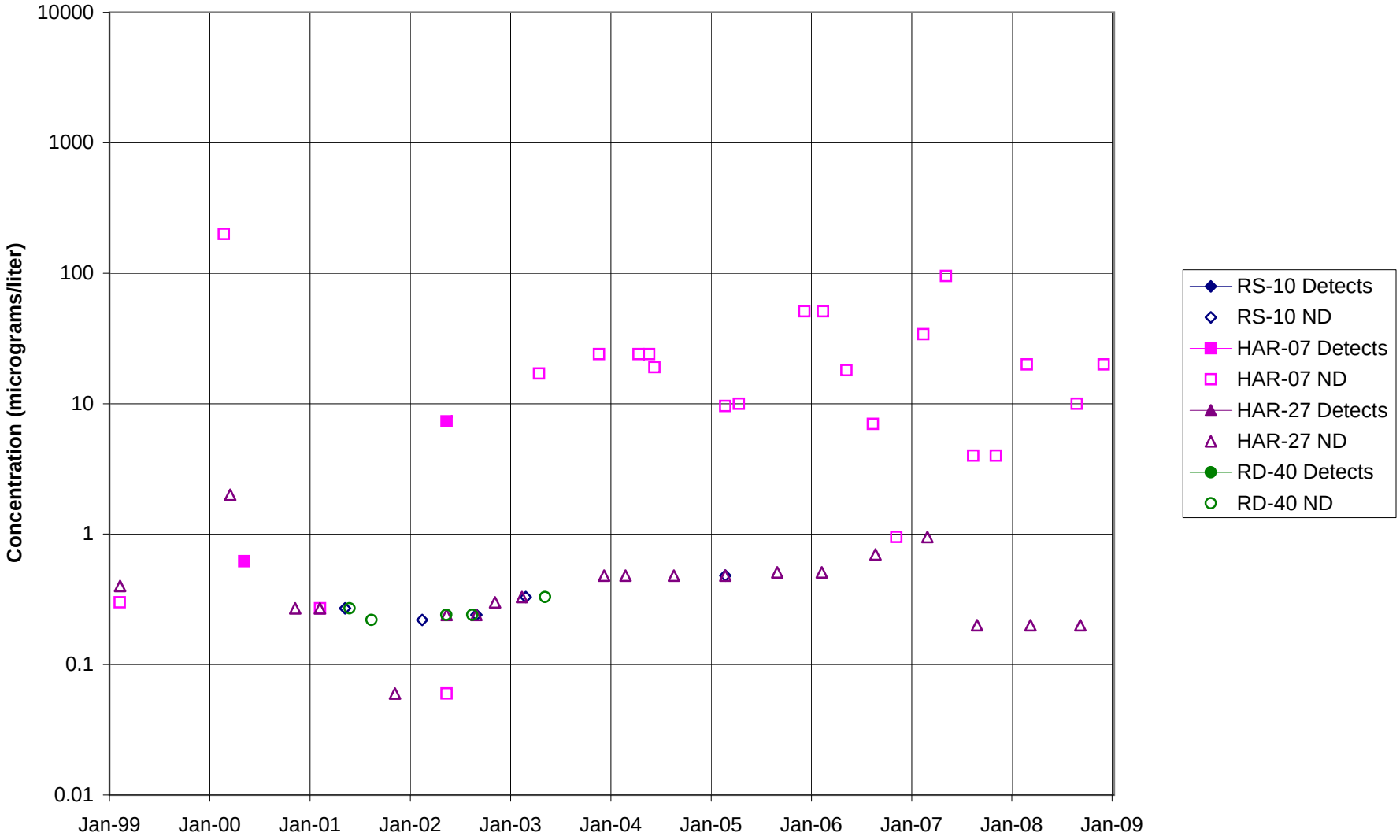


FIGURE F-219. METHYLENE CHLORIDE in DELTA / BUFFER ZONE AREA WELLS

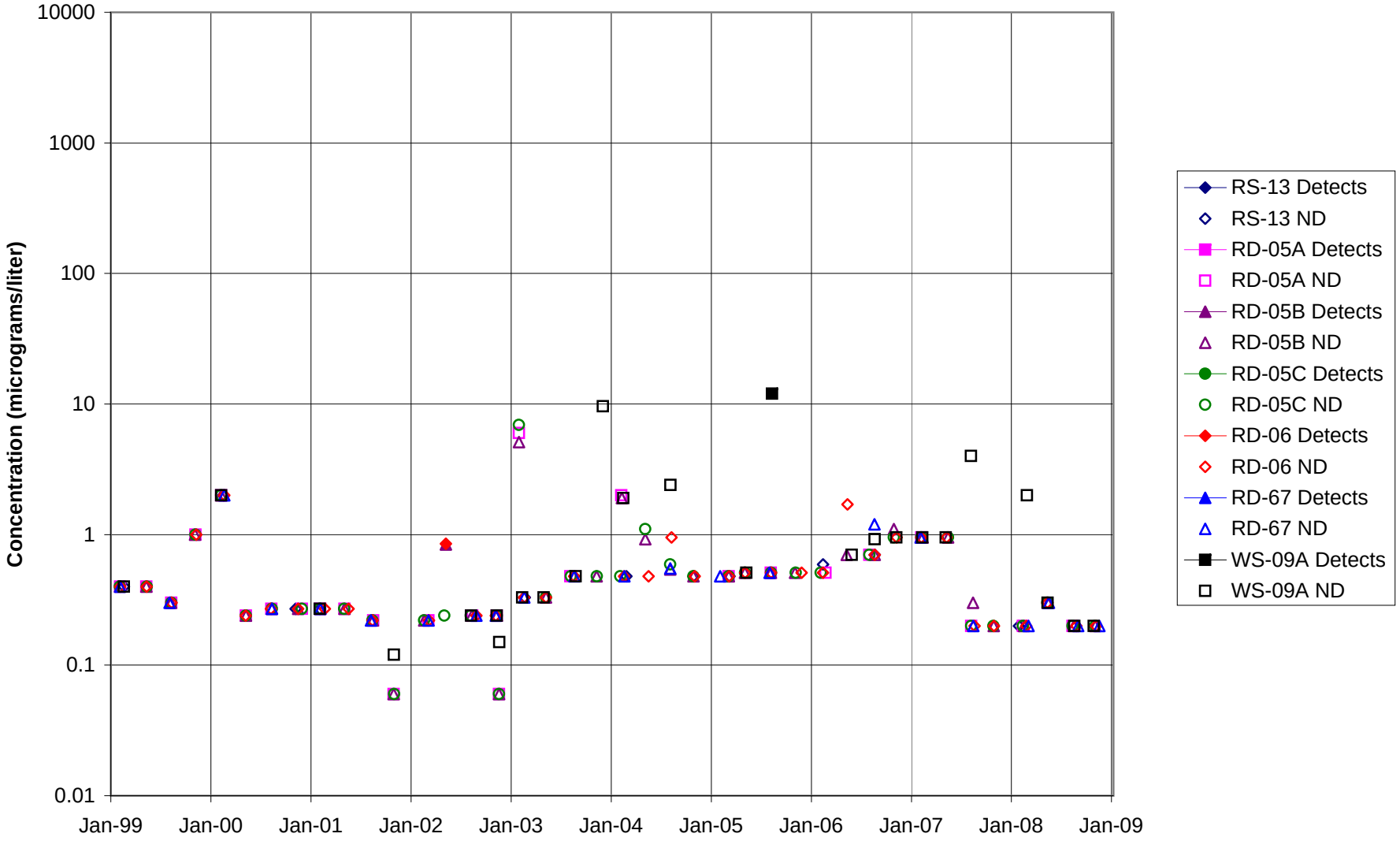


FIGURE F-220. METHYLENE CHLORIDE in AREA IV WELLS

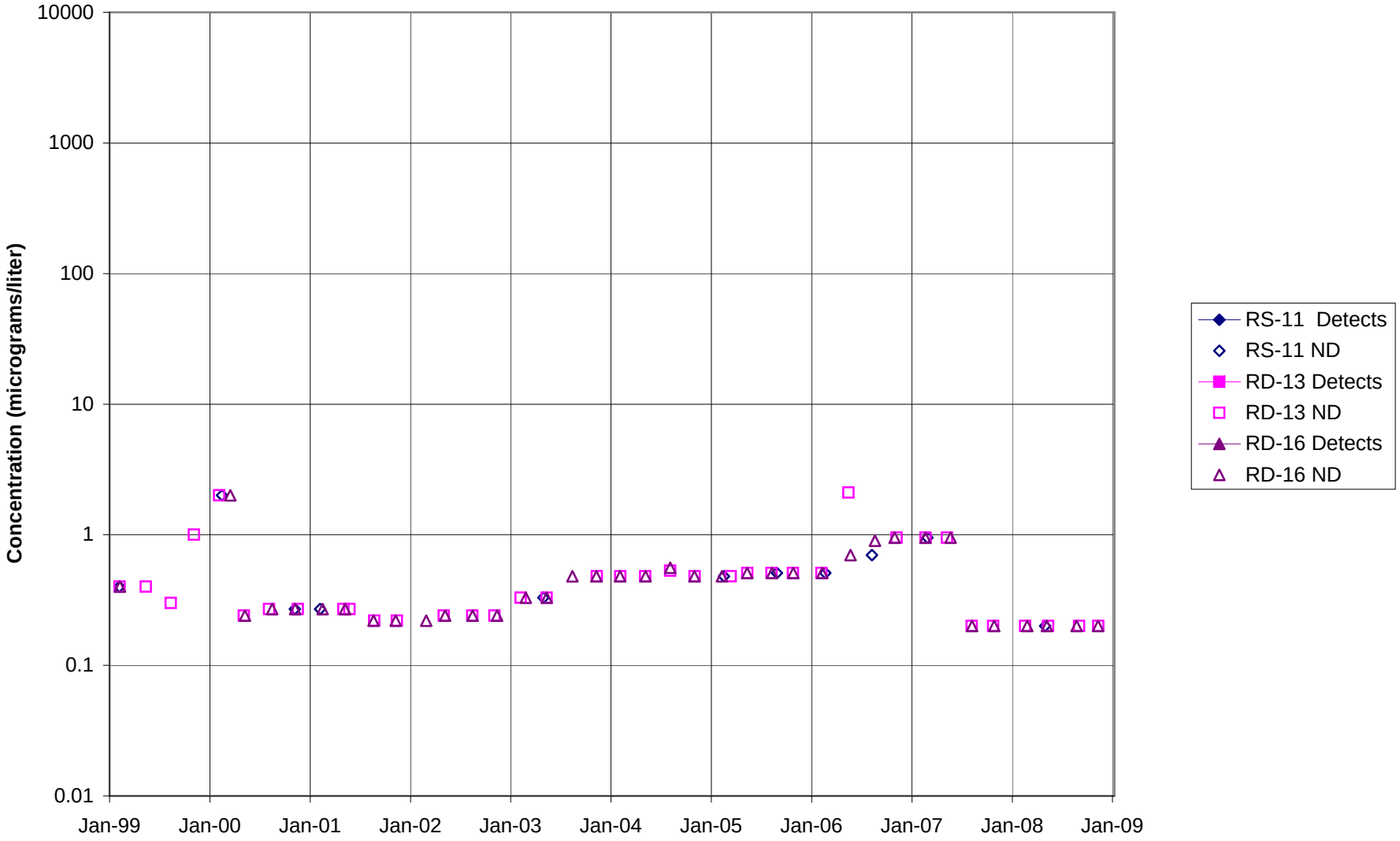


FIGURE F-221. NITRATE (as NO_3) in STL-IV AREA CHATSWORTH FORMATION WELLS

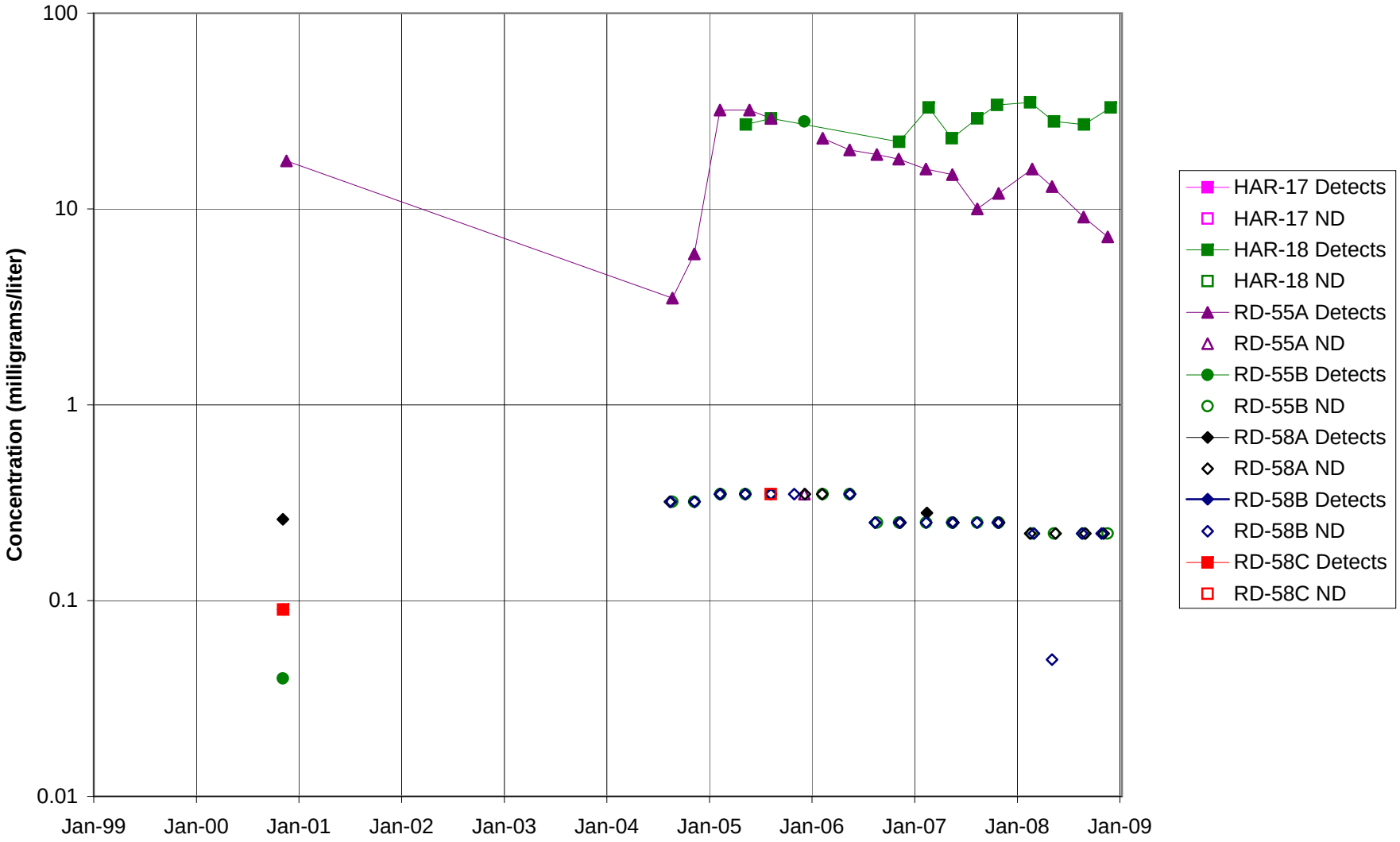


FIGURE F-222. NITRATE (as NO_3) in MAIN GATE AREA WELLS - 1

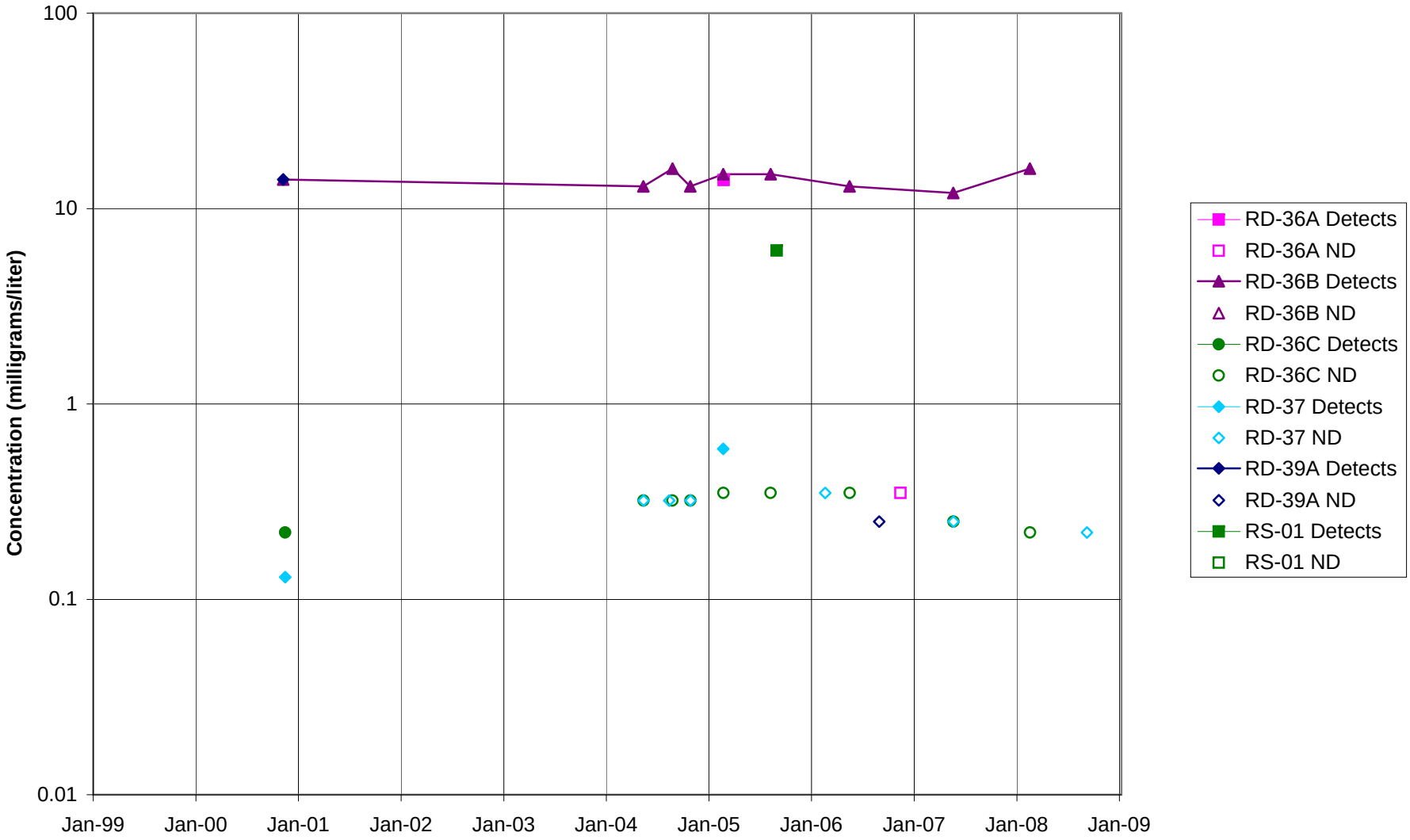


FIGURE F-223. NITRATE (as NO_3) in MAIN GATE AREA WELLS - 2

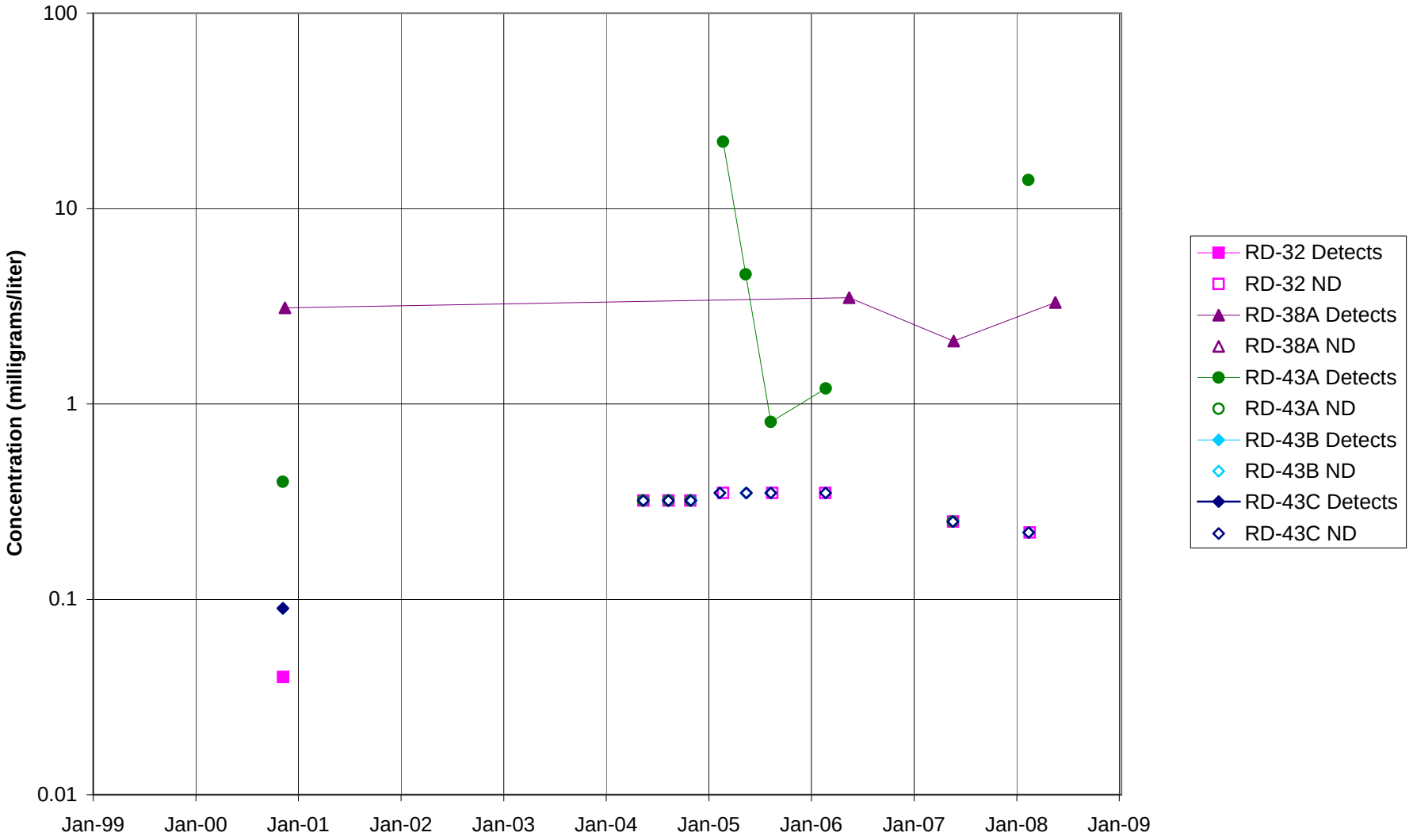


FIGURE F-224. NITRATE (as NO3) in APTF, CANYON, & HAPPY VALLEY AREA WELLS - 1

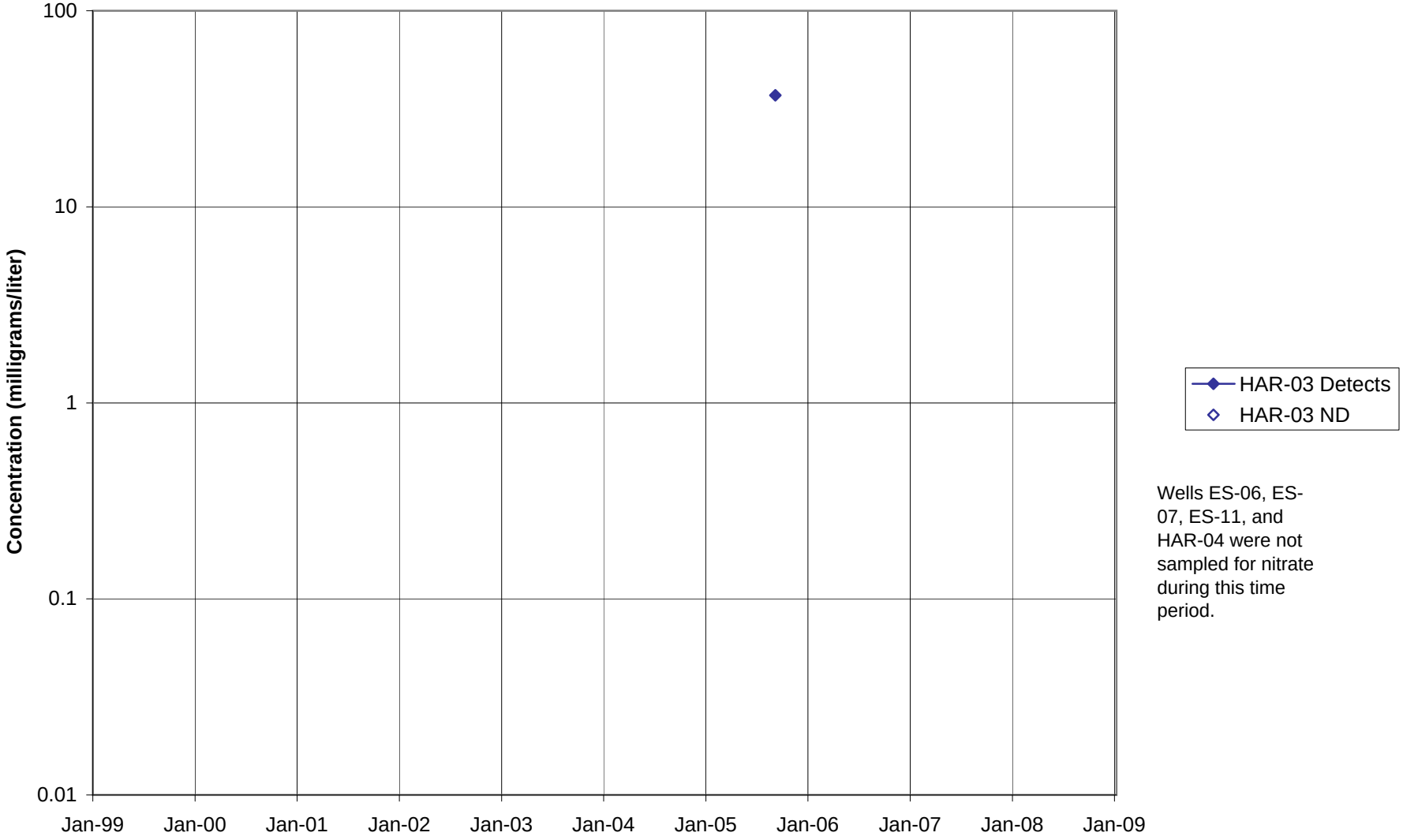


FIGURE F-225. NITRATE (as NO_3) in APTF, CANYON, & HAPPY VALLEY AREA WELLS - 2

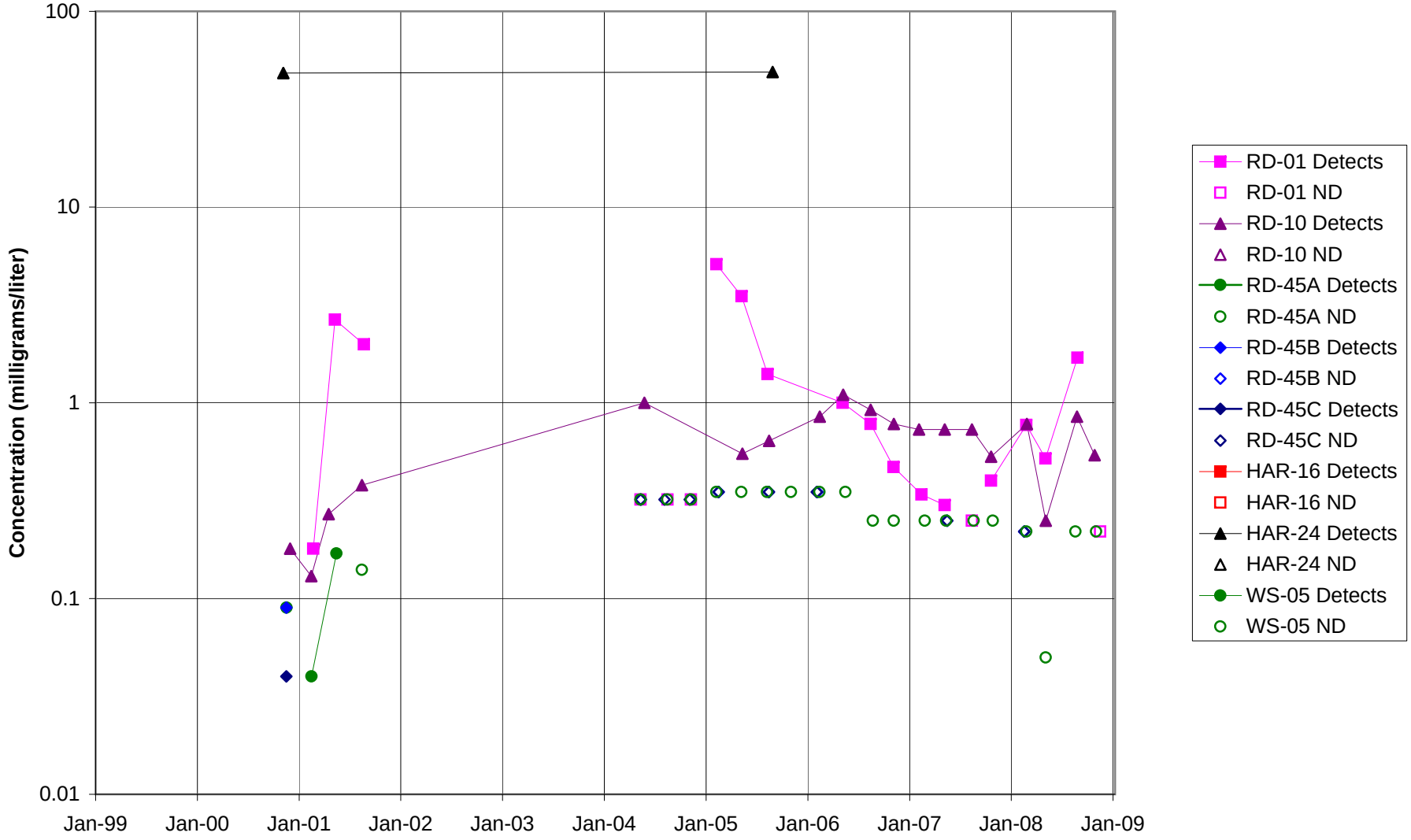


FIGURE F-226. NITRATE (as NO_3) in CTL-III / PERIMETER POND AREA WELLS

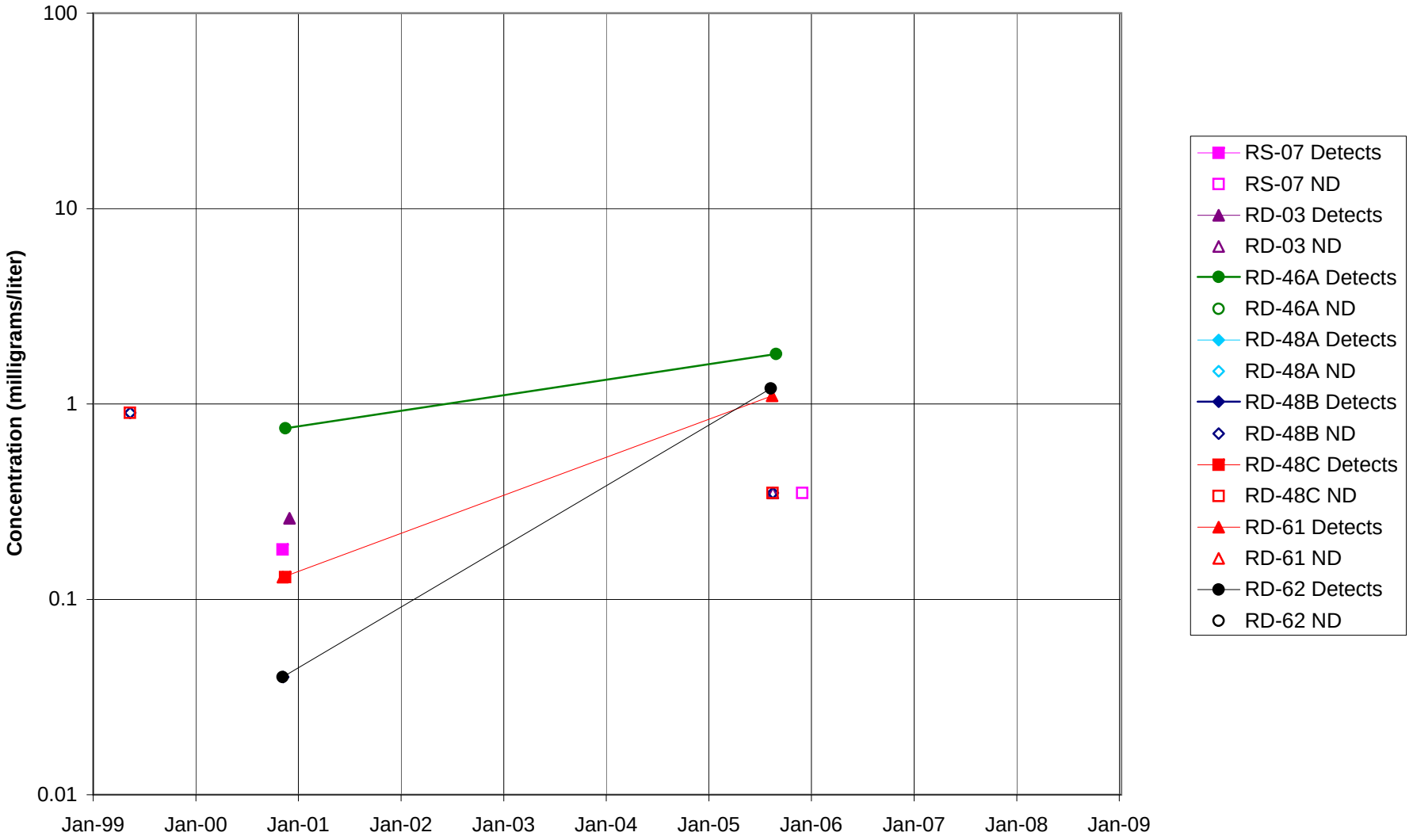
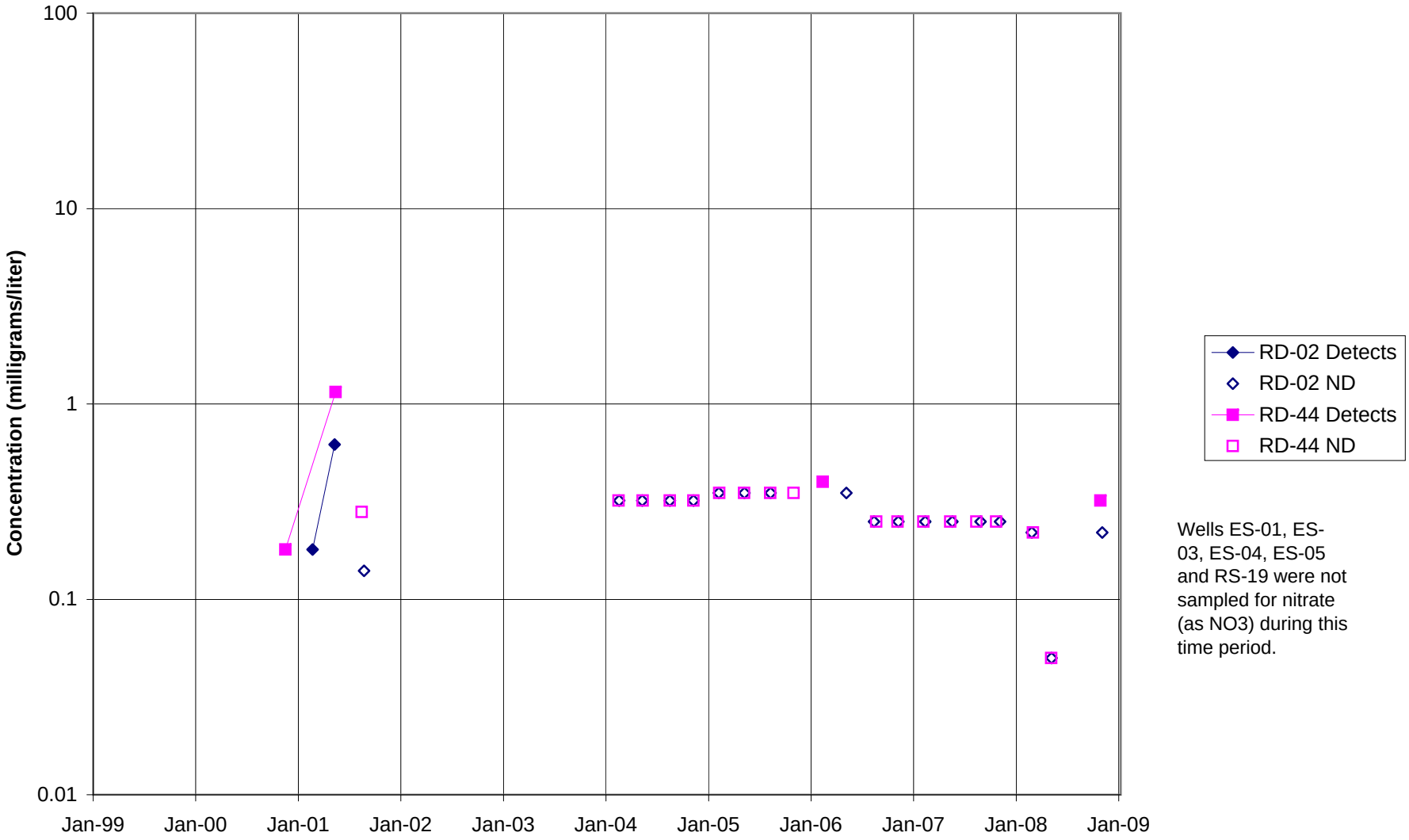
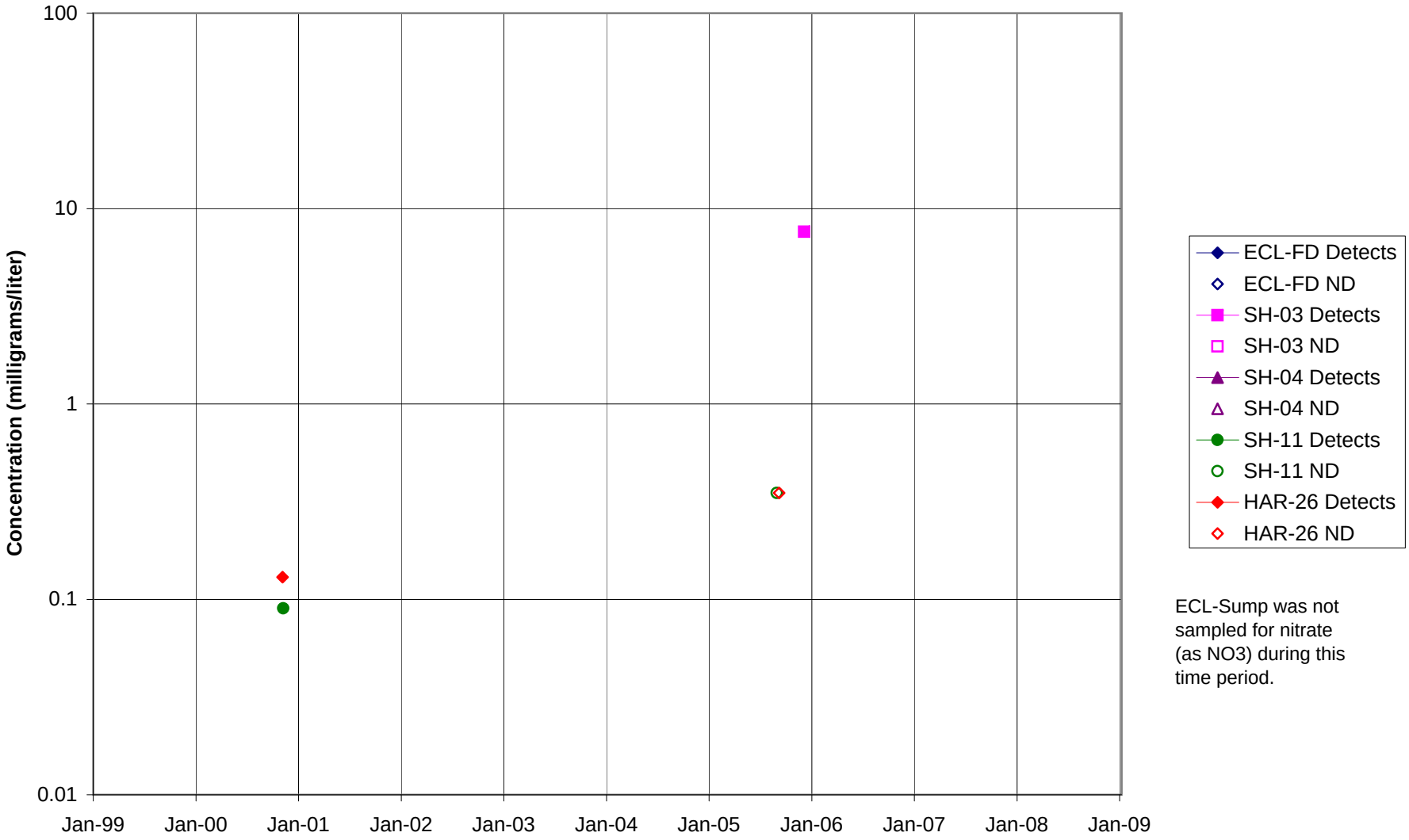


FIGURE F-227. NITRATE (as NO_3) in BOWL AREA WELLS



Wells ES-01, ES-03, ES-04, ES-05 and RS-19 were not sampled for nitrate (as NO3) during this time period.

FIGURE F-228. NITRATE (as NO_3) in ECL AREA WELLS



ECL-Sump was not sampled for nitrate (as NO3) during this time period.

FIGURE F-229. NITRATE (as NO_3) in FORMER LOX PLANT AREA WELLS

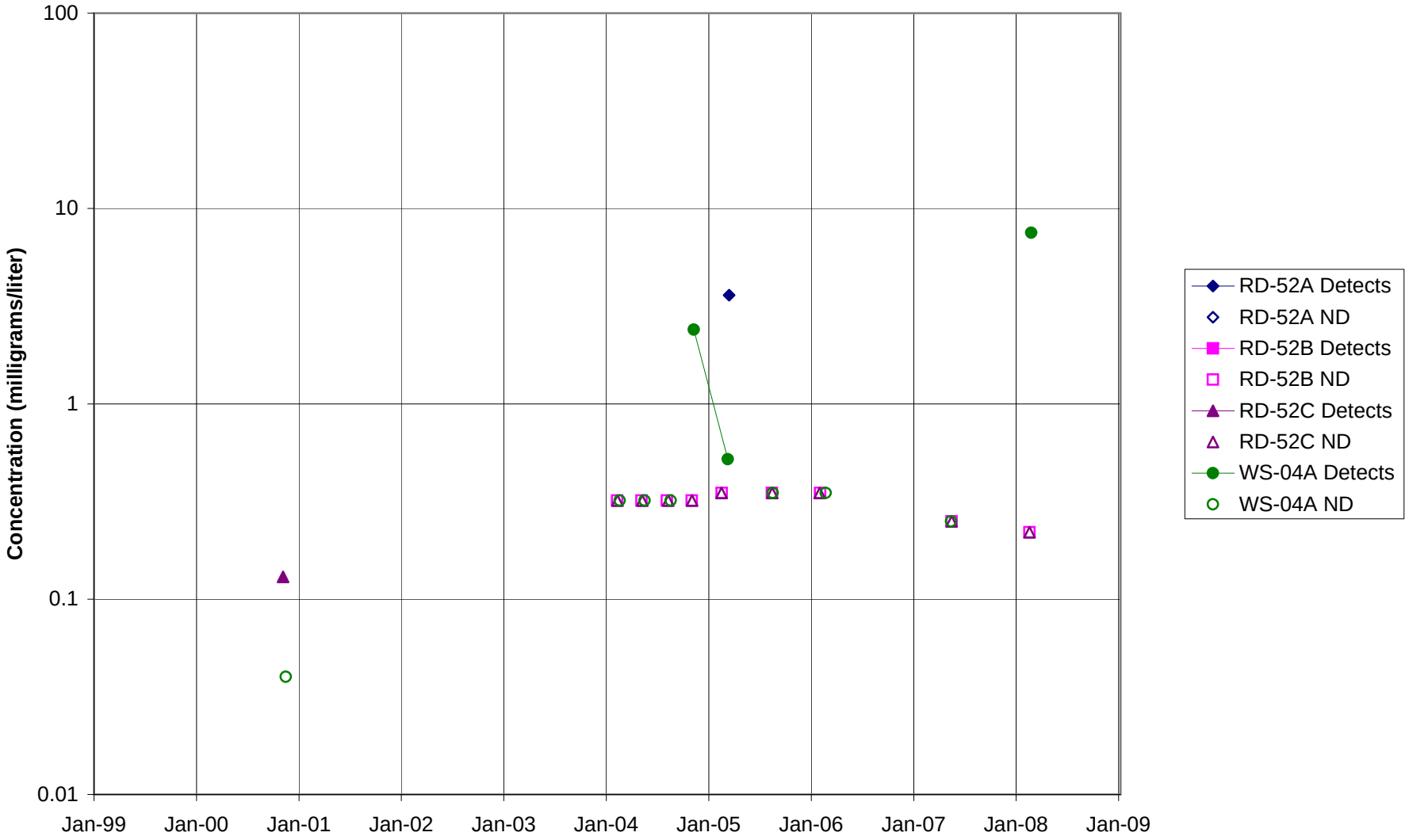
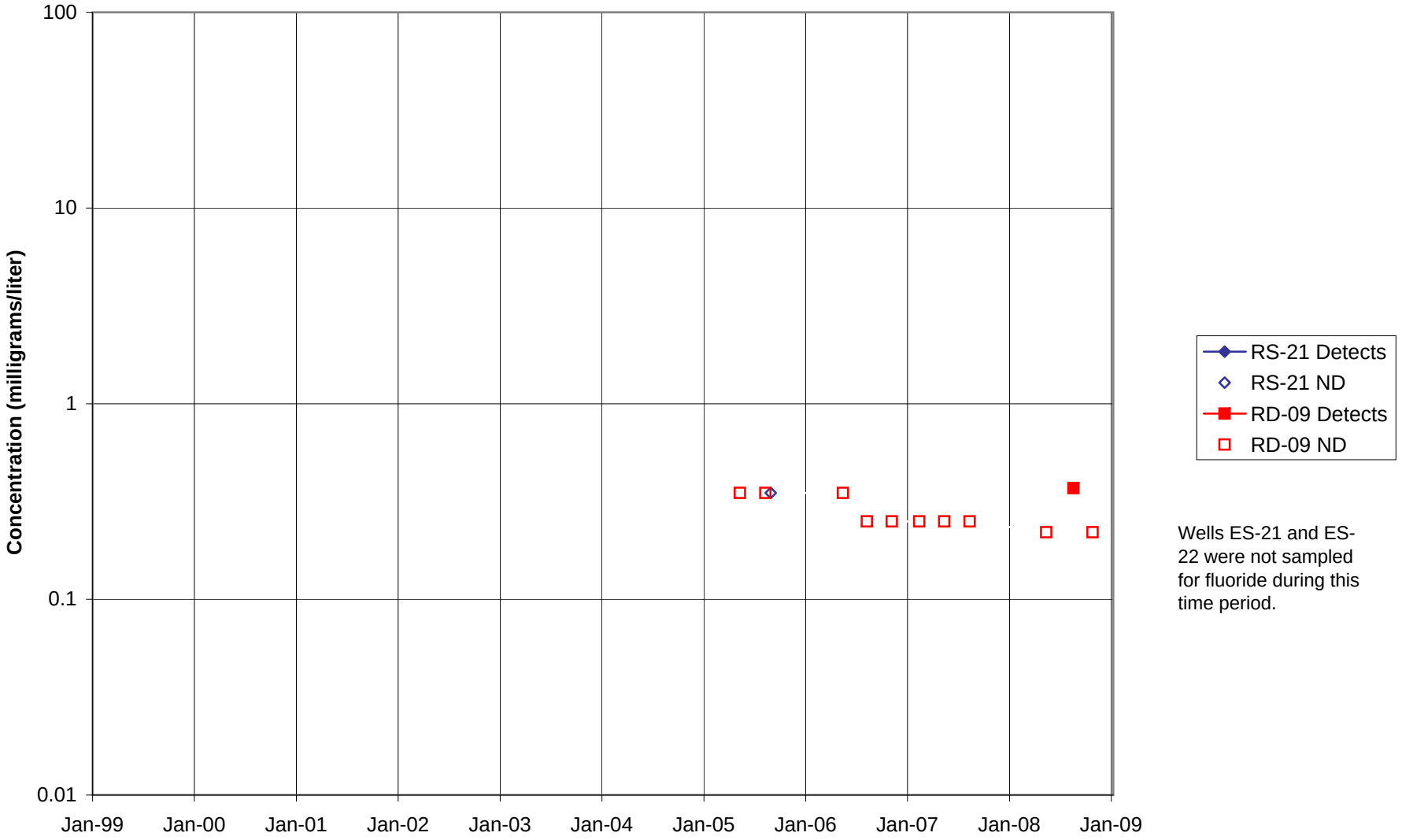
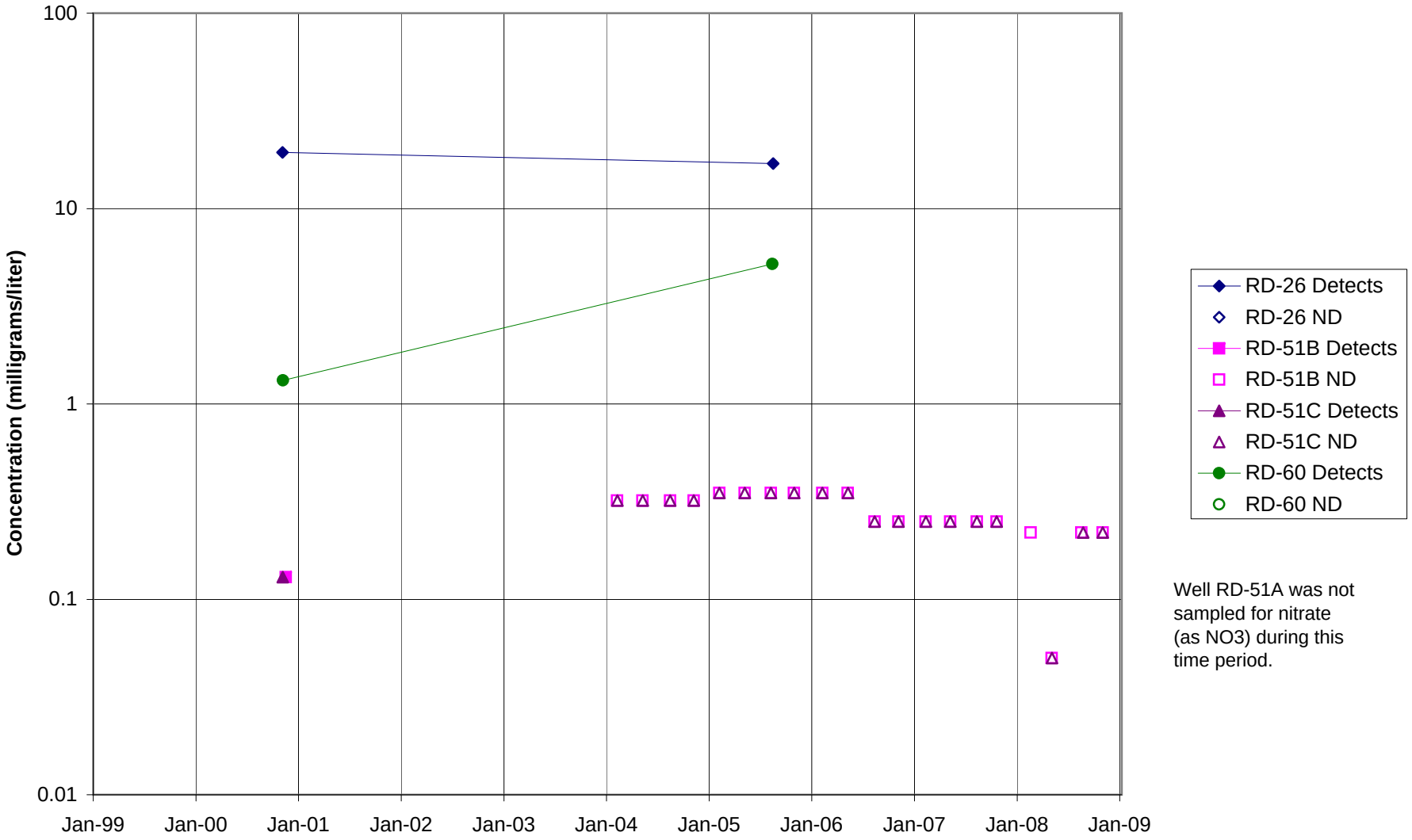


FIGURE F-230. NITRATE (as NO3) in RD-09 AREA WELLS



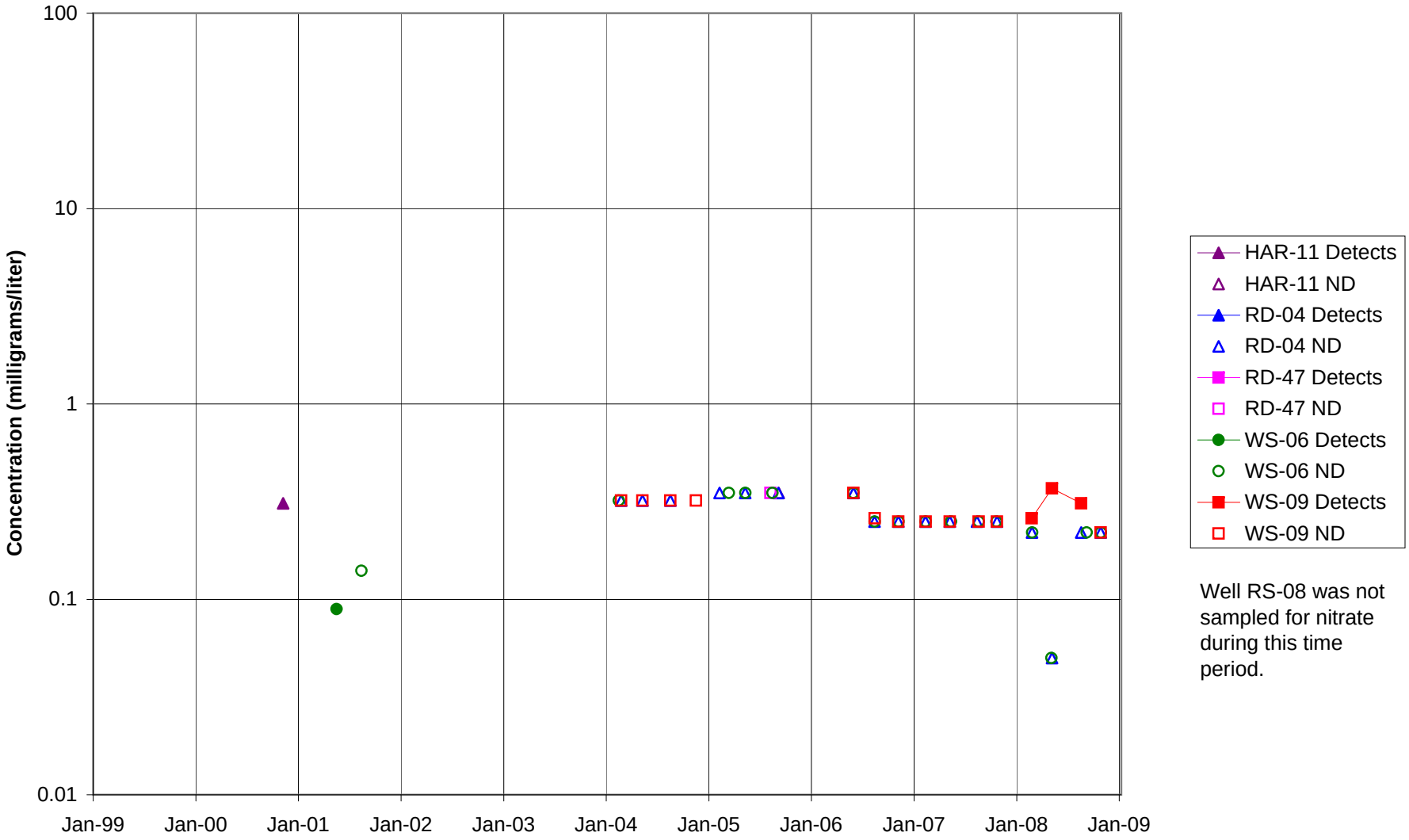
Wells ES-21 and ES-22 were not sampled for fluoride during this time period.

FIGURE F-231. NITRATE (as NO_3) in HELIPORT, B/204 AREA WELLS



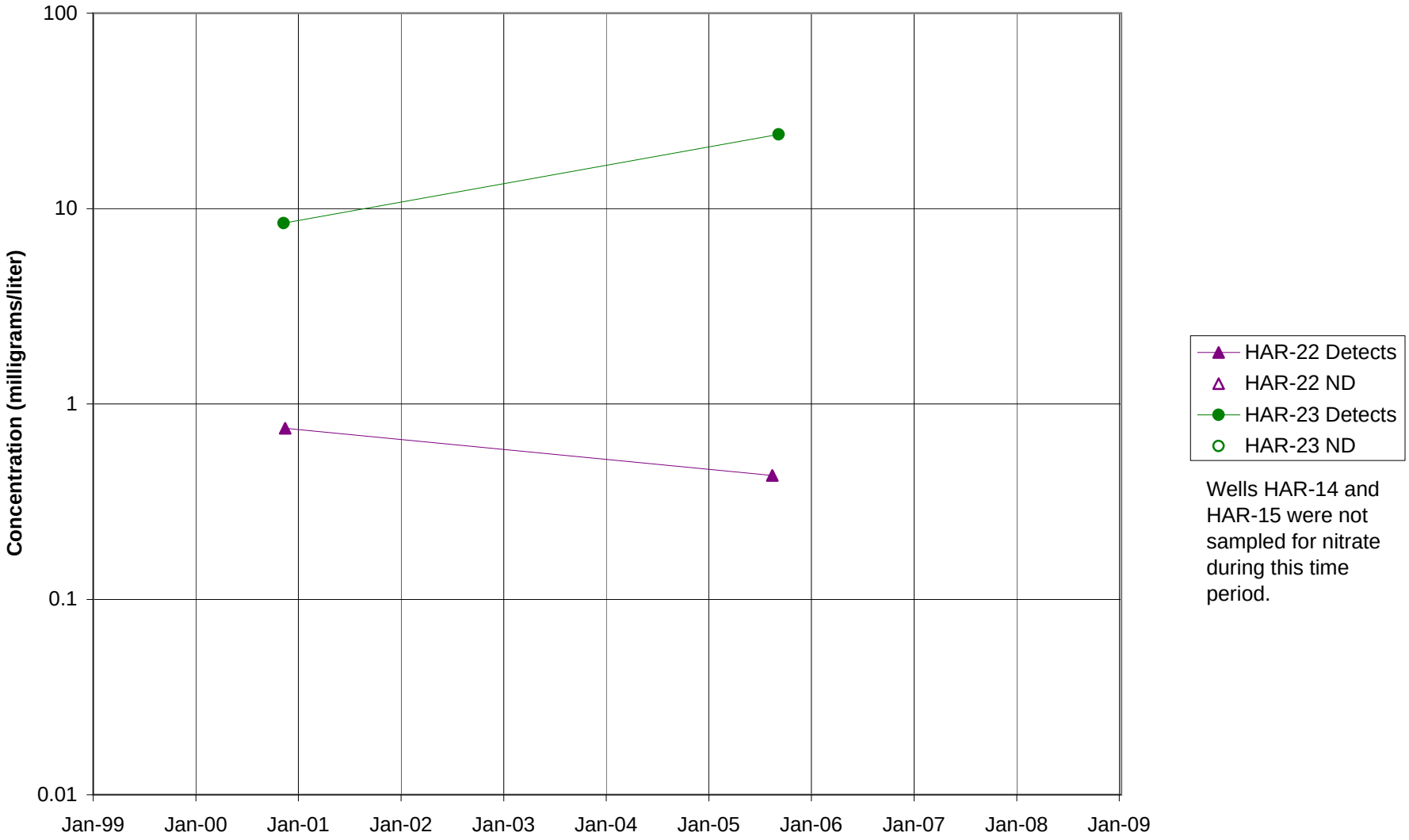
Well RD-51A was not sampled for nitrate (as NO3) during this time period.

FIGURE F-232. NITRATE (as NO_3) in ALFA / BRAVO AREA WELLS



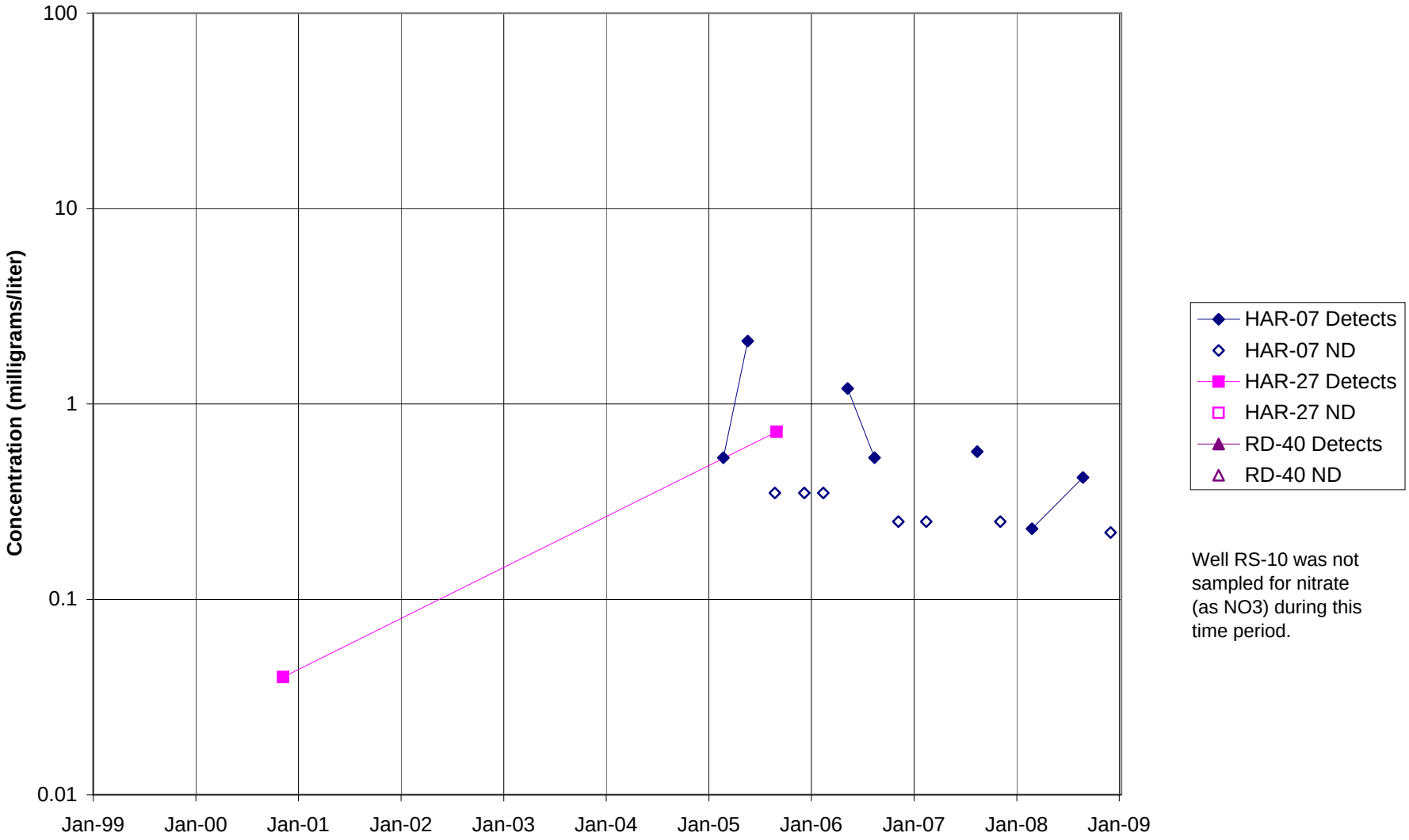
Well RS-08 was not sampled for nitrate during this time period.

FIGURE F-233. NITRATE (as NO_3) in SPA AREA WELLS



Wells HAR-14 and HAR-15 were not sampled for nitrate during this time period.

FIGURE F-234. NITRATE (as NO_3) in COCA / PLF AREA WELLS



Well RS-10 was not sampled for nitrate (as NO3) during this time period.

FIGURE F-235. NITRATE (as NO_3) in DELTA / BUFFER ZONE WELLS

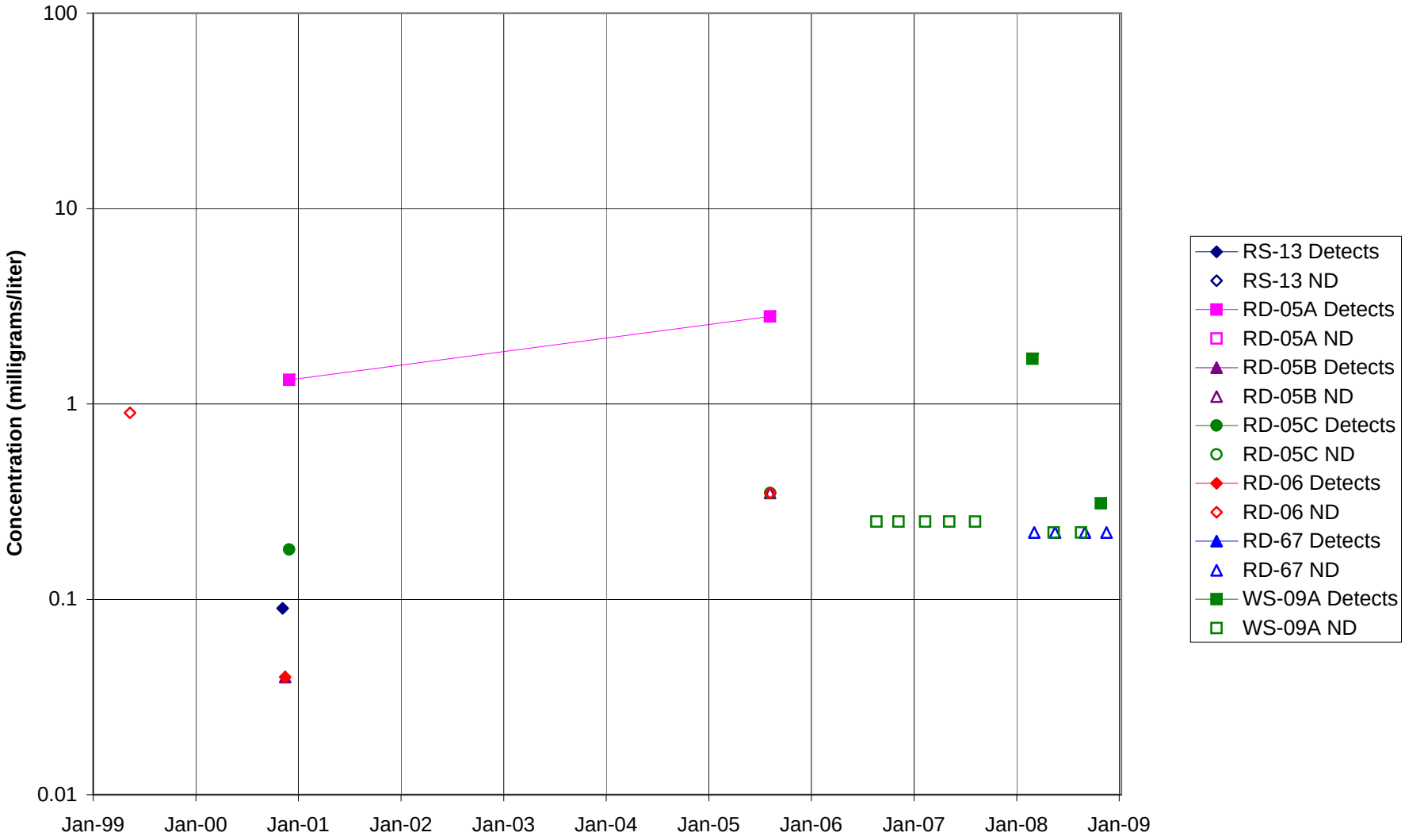


FIGURE F-236. NITRATE (as NO_3) AREA IV WELLS

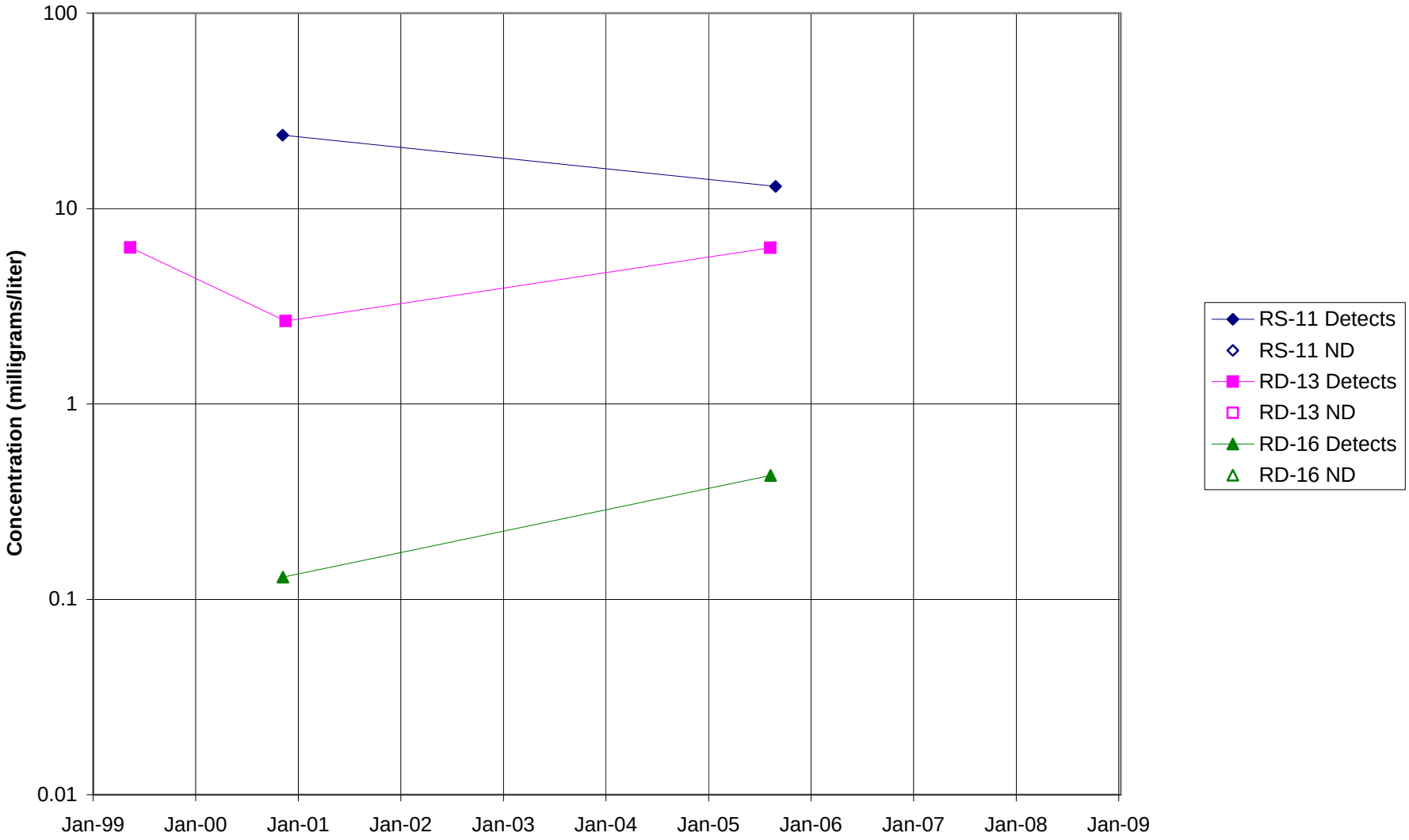


FIGURE F-237. NITROBENZENE in STL-IV AREA CHATSWORTH FORMATION WELLS

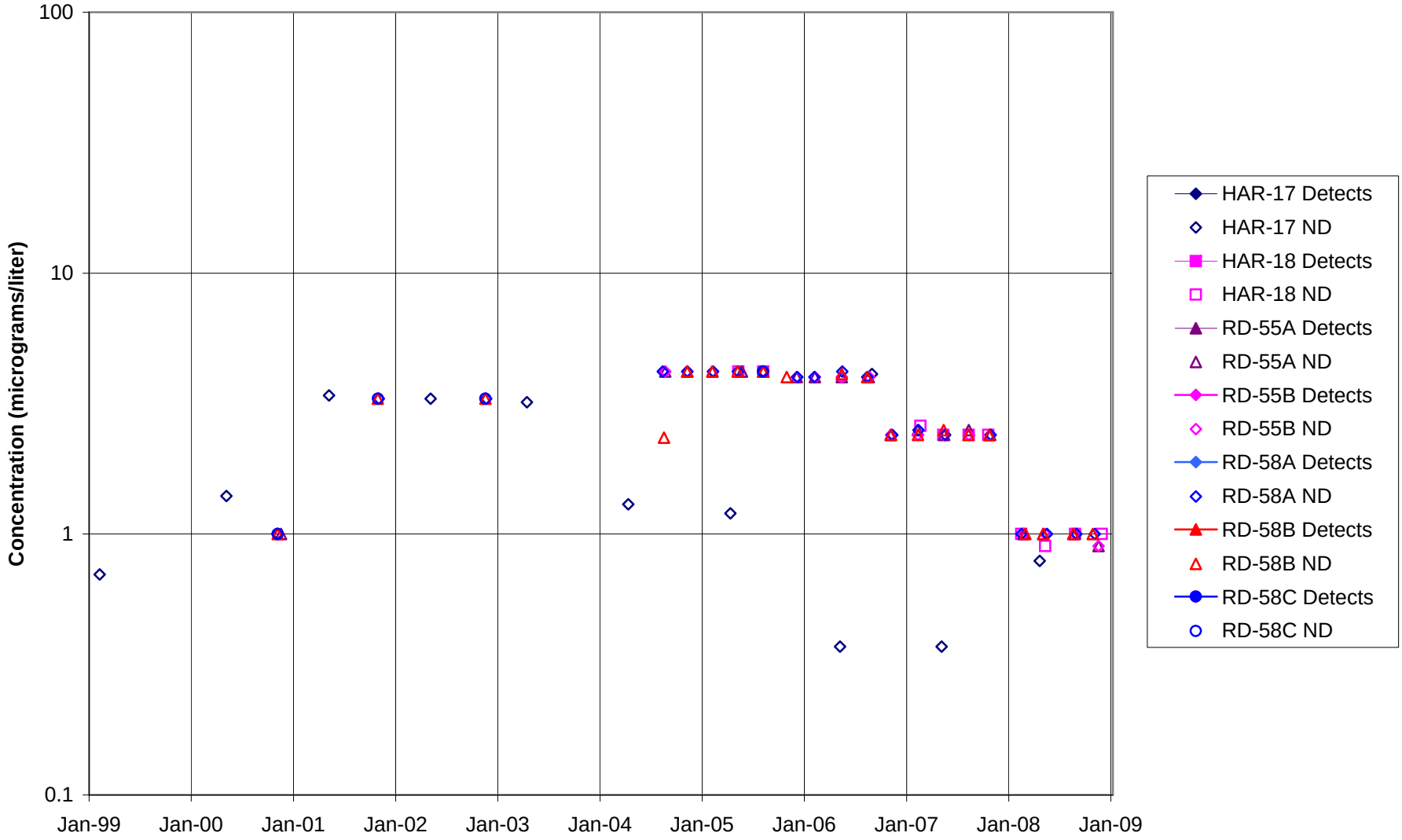
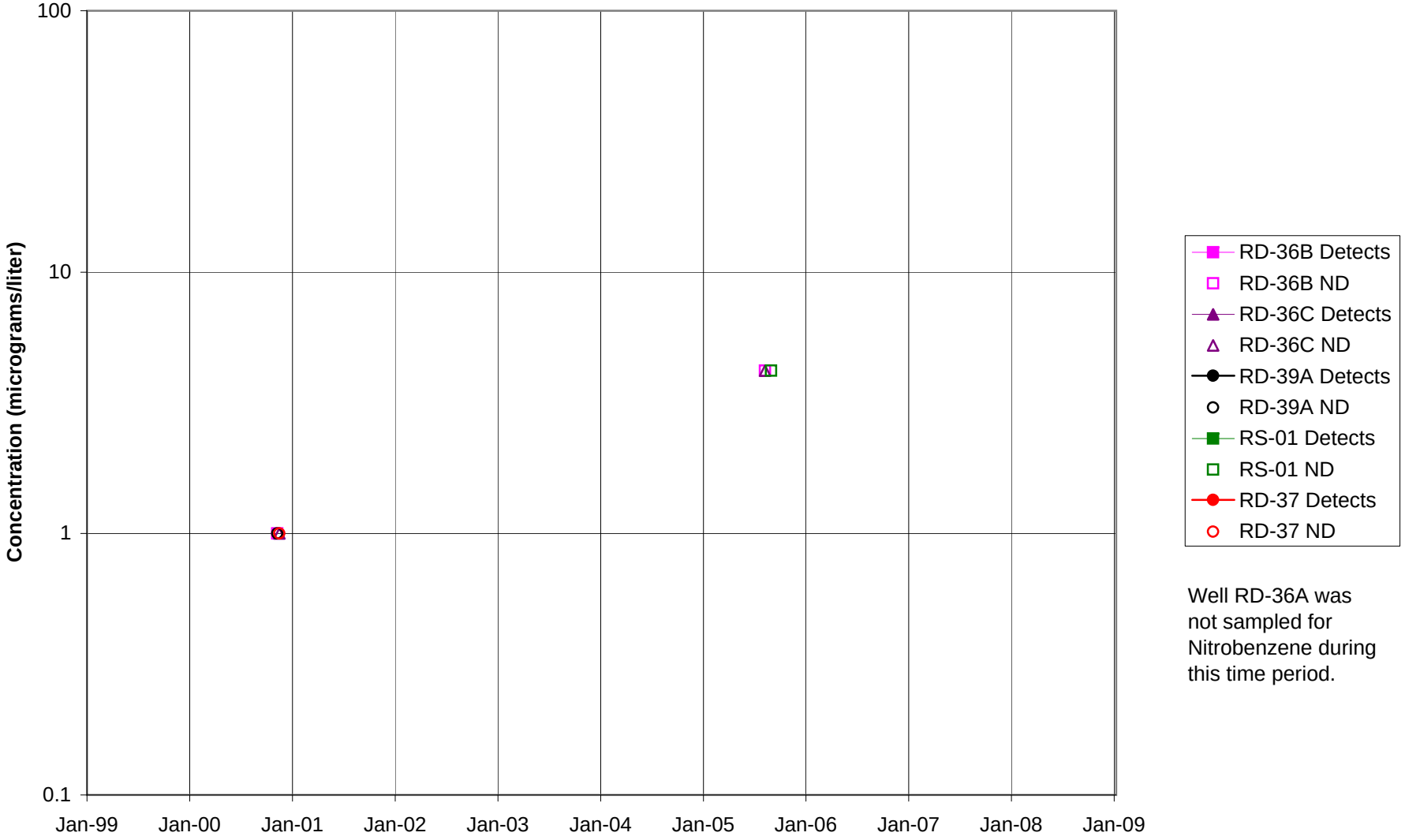


FIGURE F-238. NITROBENZENE in MAIN GATE AREA WELLS - 1



Well RD-36A was not sampled for Nitrobenzene during this time period.

FIGURE F-239. NITROBENZENE in MAIN GATE AREA WELLS - 2

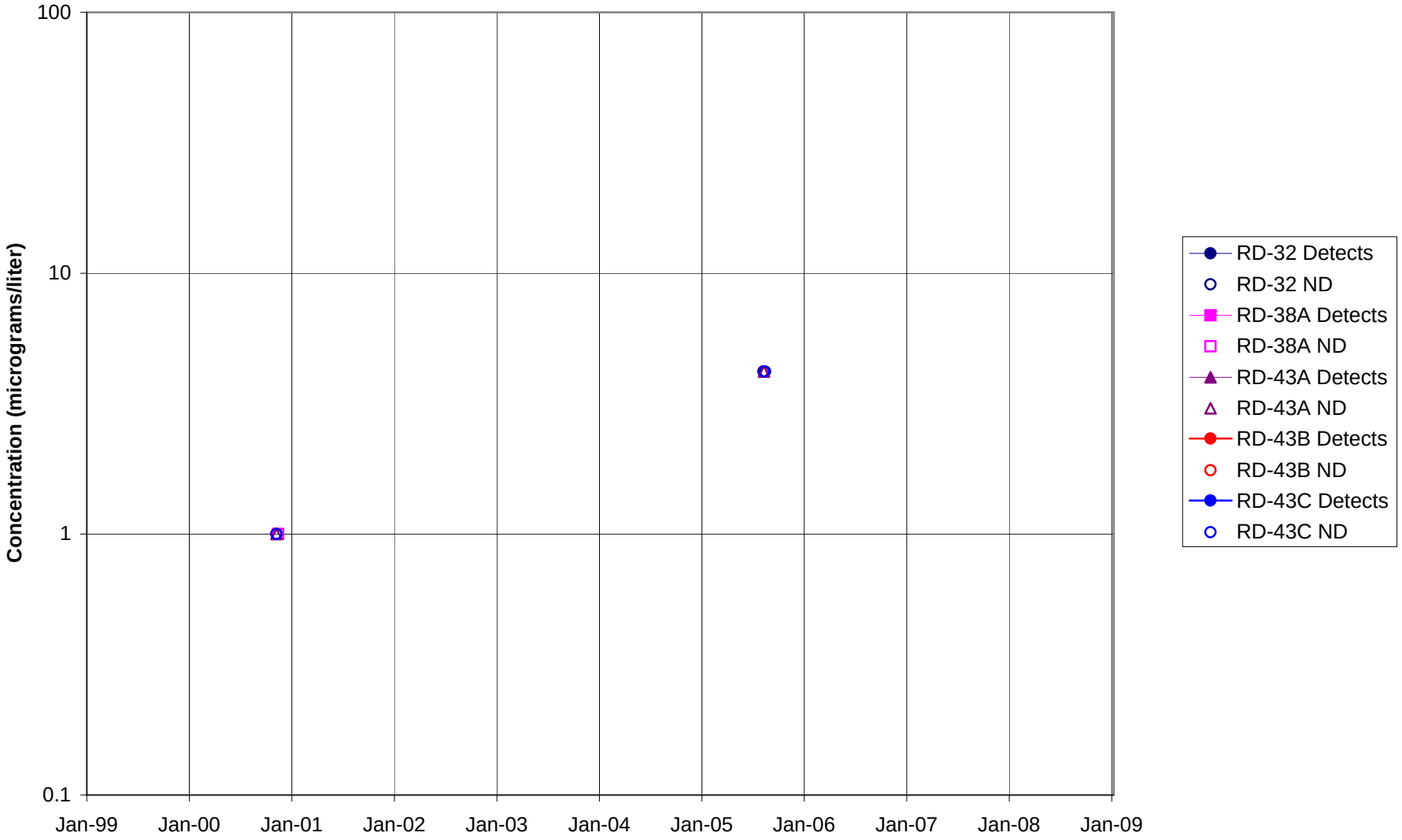


FIGURE F-240. NITROBENZENE in APTF, CANYON, & HAPPY VALLEY AREA WELLS - 1

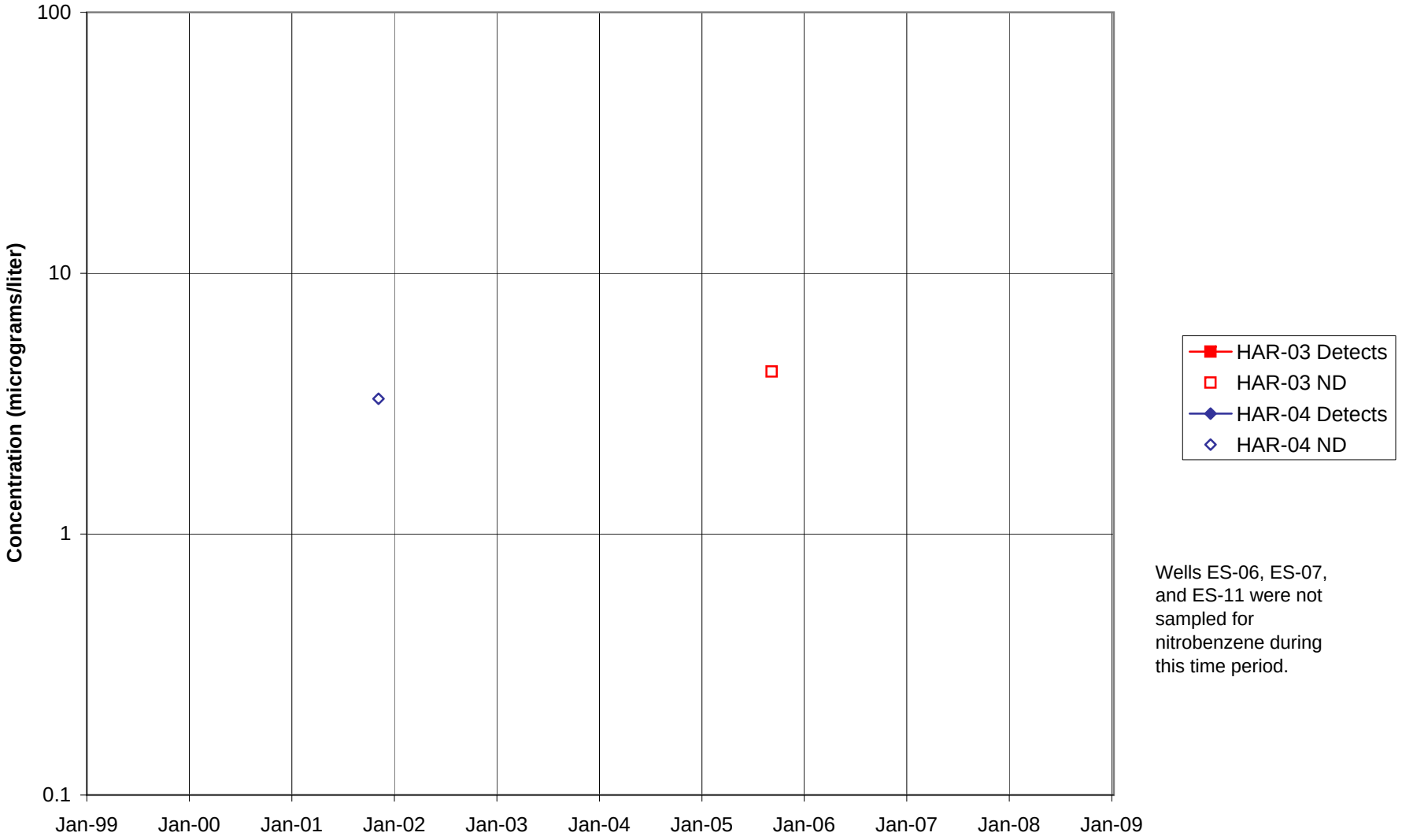


FIGURE F-241. NITROBENZENE in APTF, CANYON, & HAPPY VALLEY AREA WELLS - 2

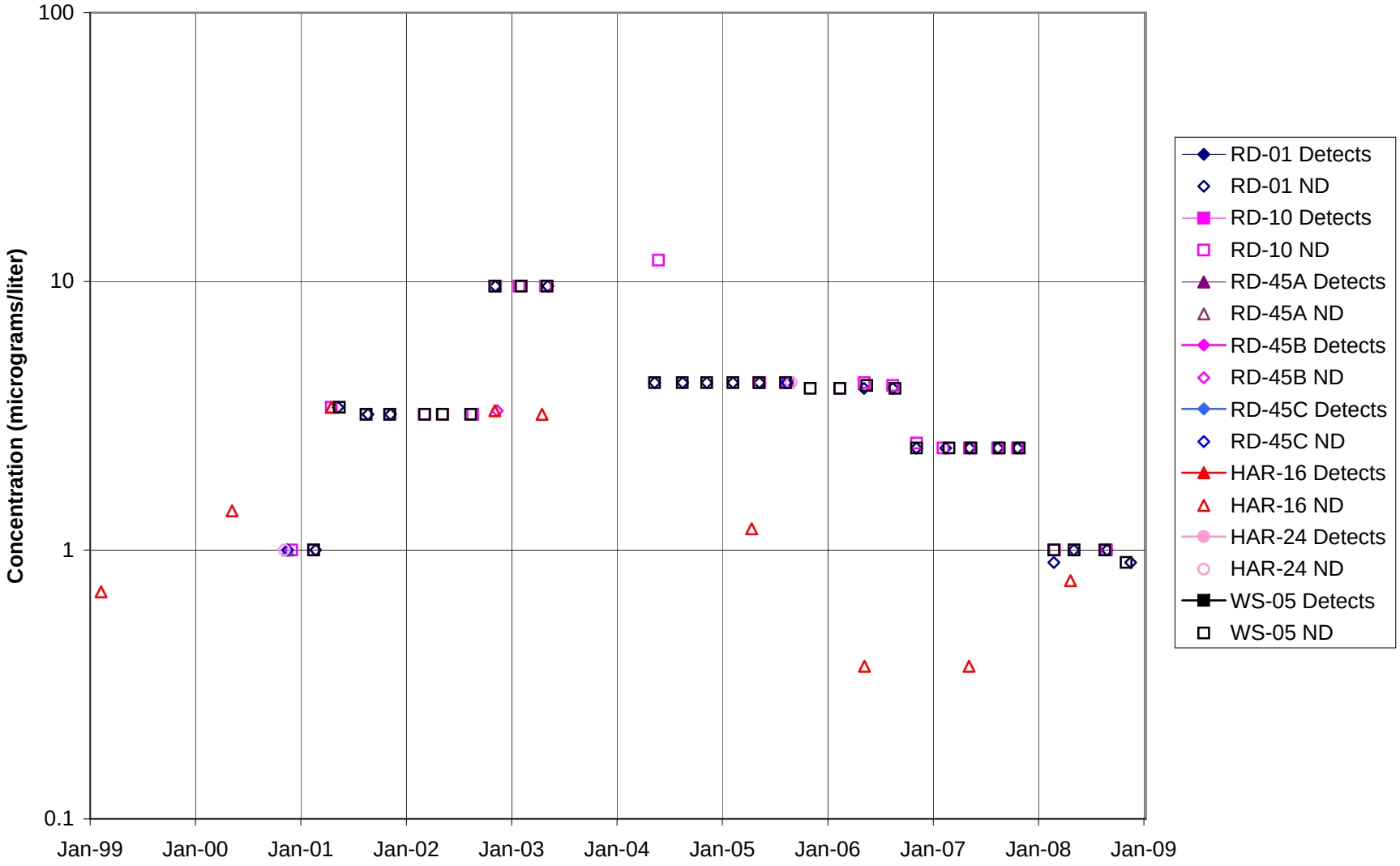


FIGURE F-242. NITROBENZENE in CTL-III / PERIMETER POND AREA WELLS

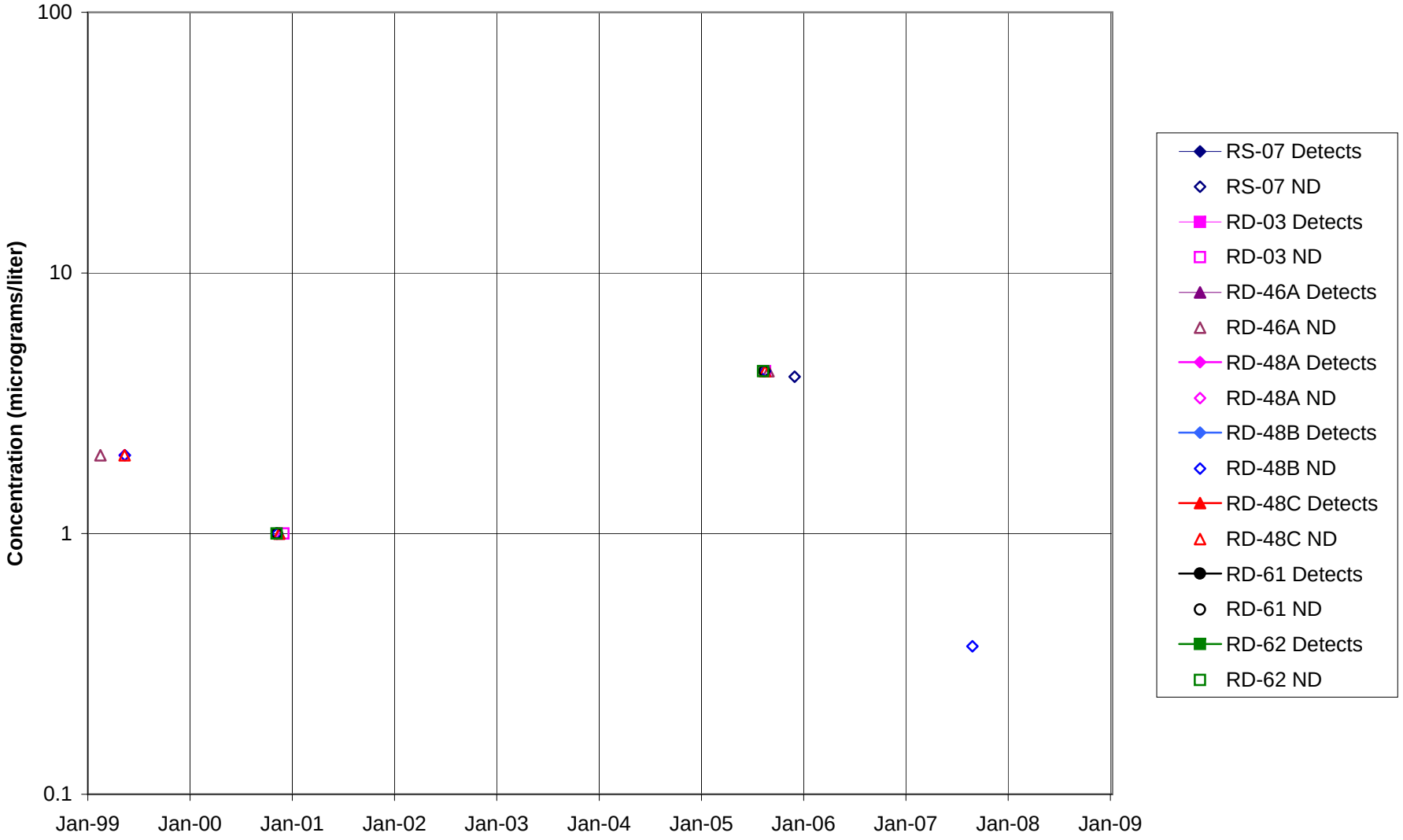
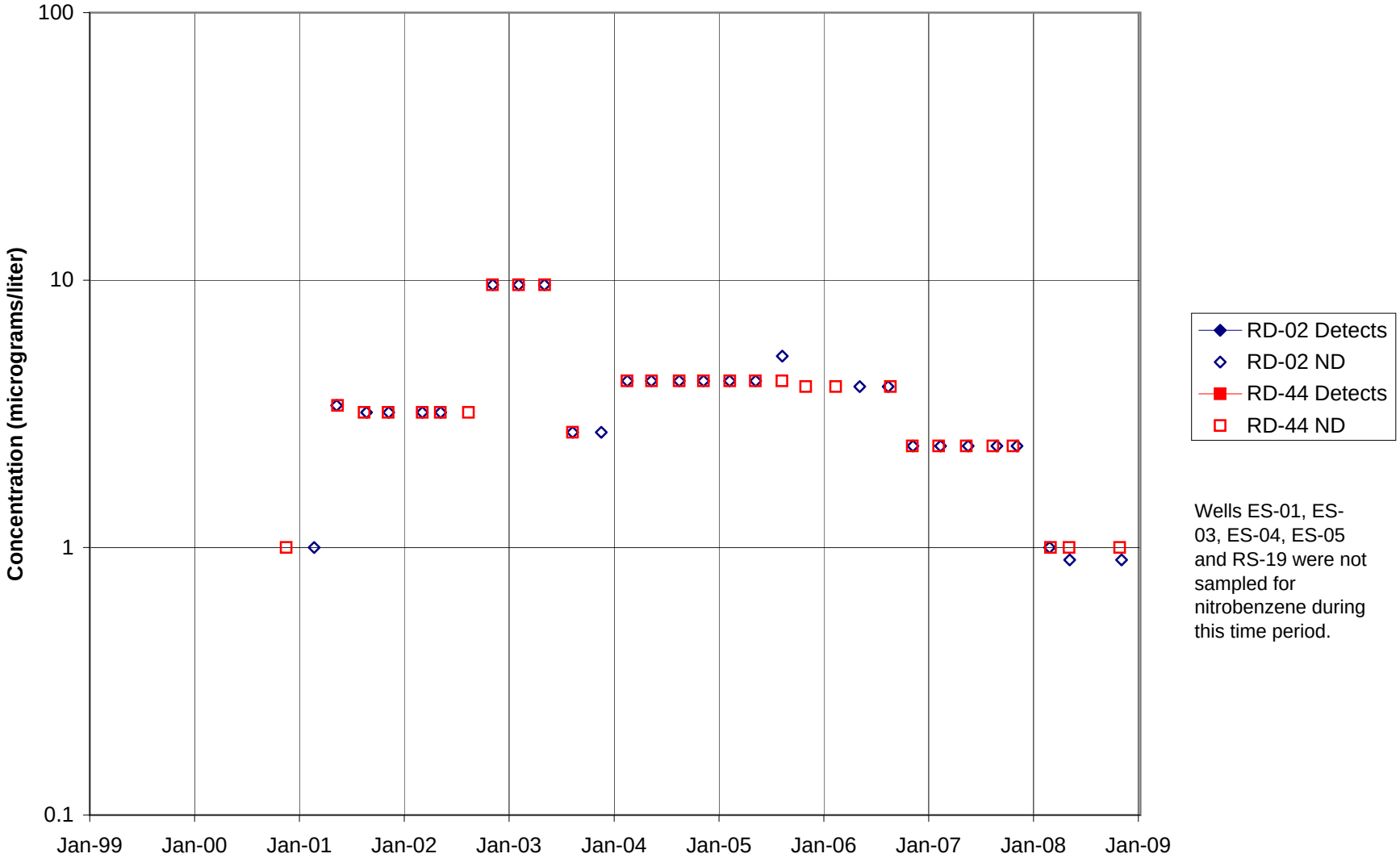


FIGURE F-243. NITROBENZENE in BOWL AREA WELLS



Wells ES-01, ES-03, ES-04, ES-05 and RS-19 were not sampled for nitrobenzene during this time period.

FIGURE F-244. NITROBENZENE in ECL AREA WELLS

FIGURE F-245. NITROBENZENE in FORMER LOX PLANT AREA WELLS

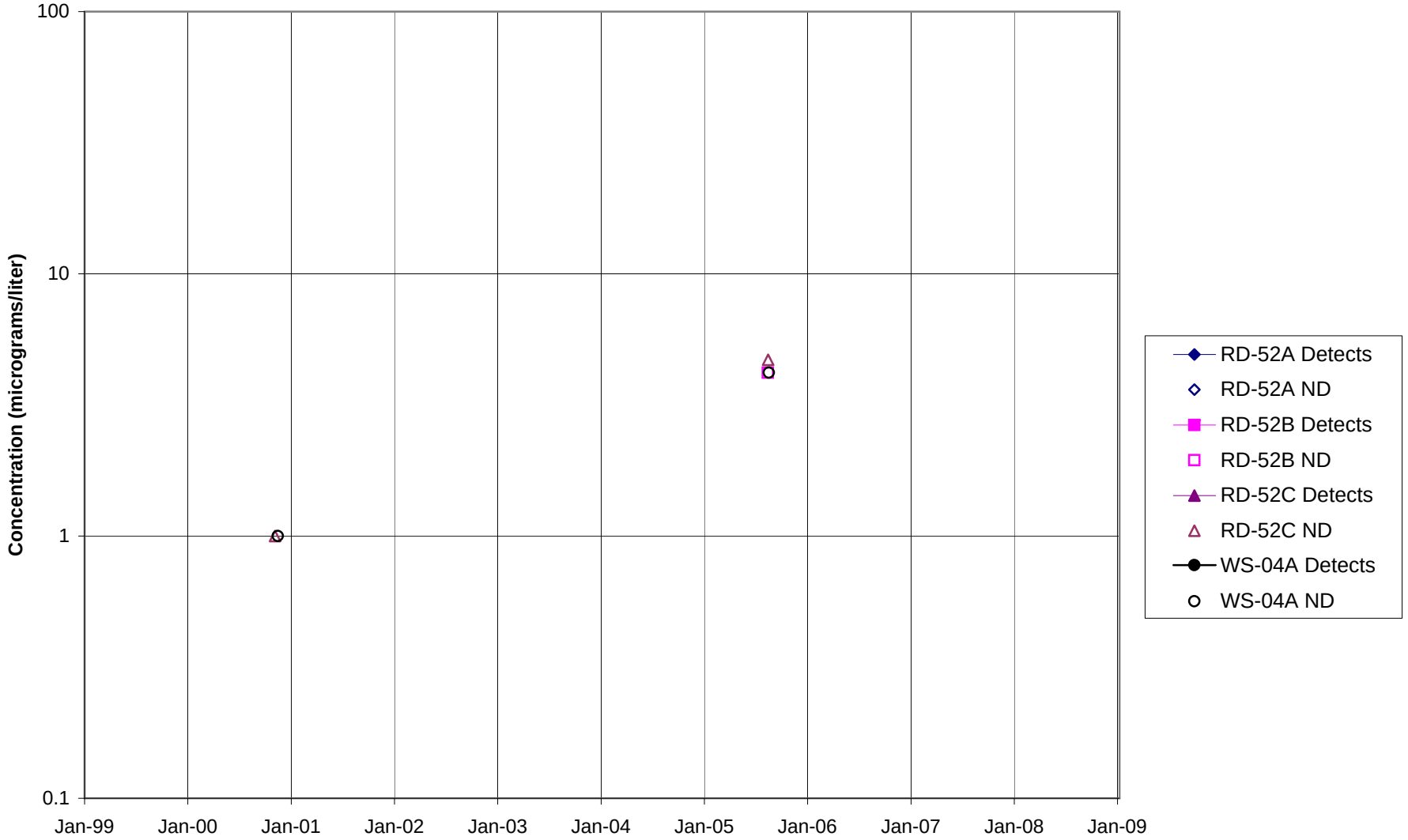


FIGURE F-246. NITROBENZENE in RD-09 AREA WELLS

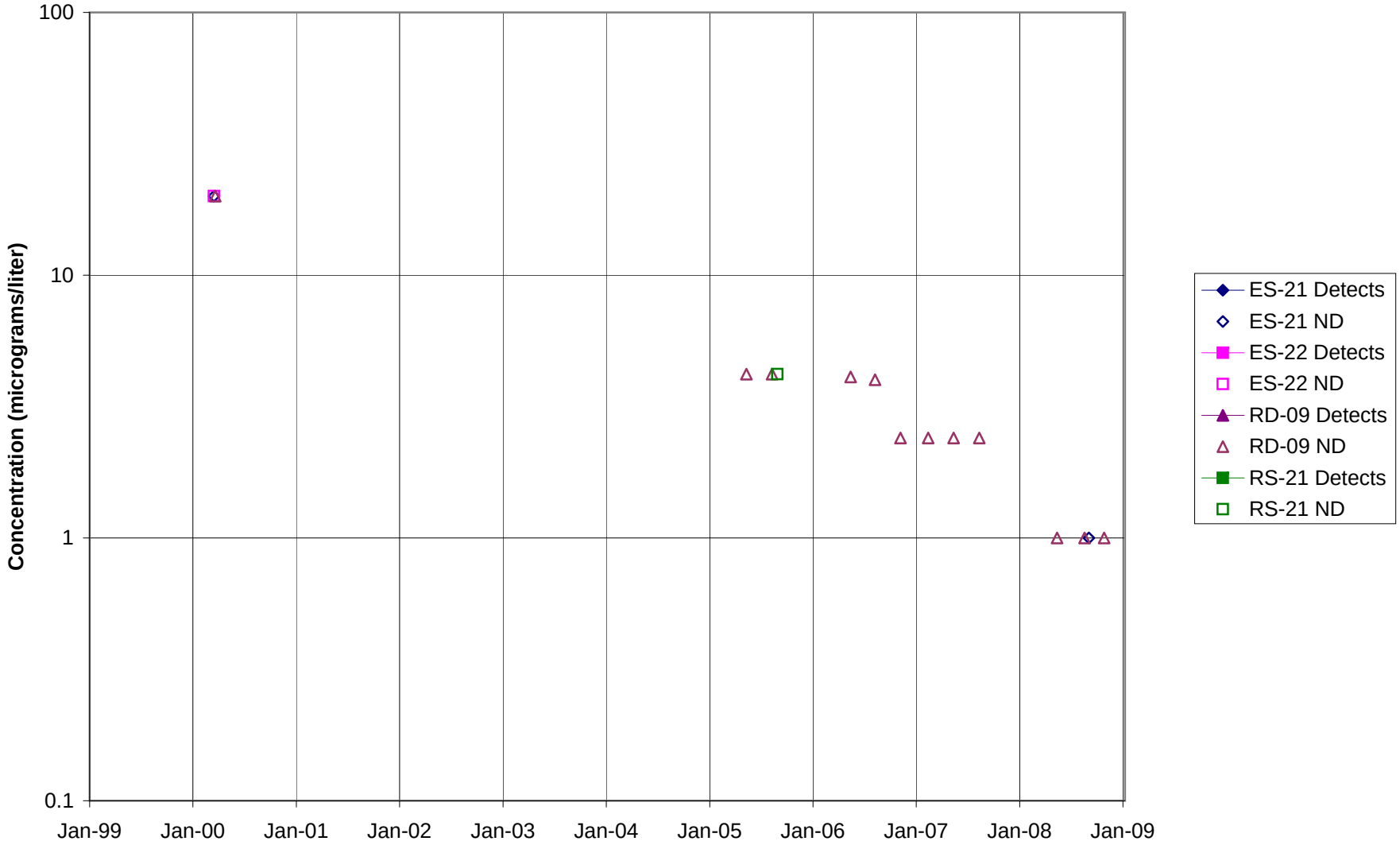
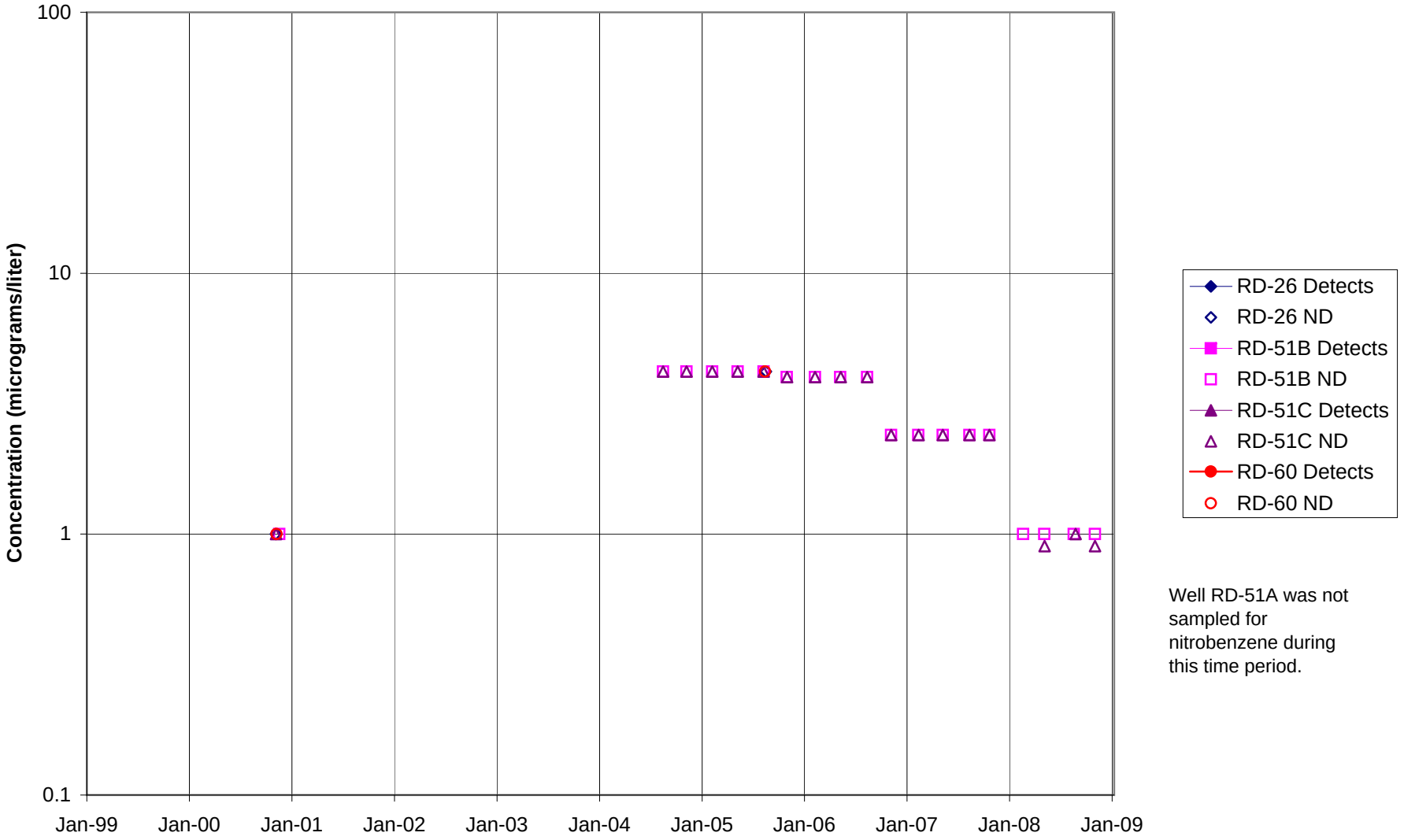


FIGURE F-247. NITROBENZENE in HELIPORT, B/204 AREA WELLS



Well RD-51A was not sampled for nitrobenzene during this time period.

FIGURE F-248. NITROBENZENE in ALFA / BRAVO AREA WELLS

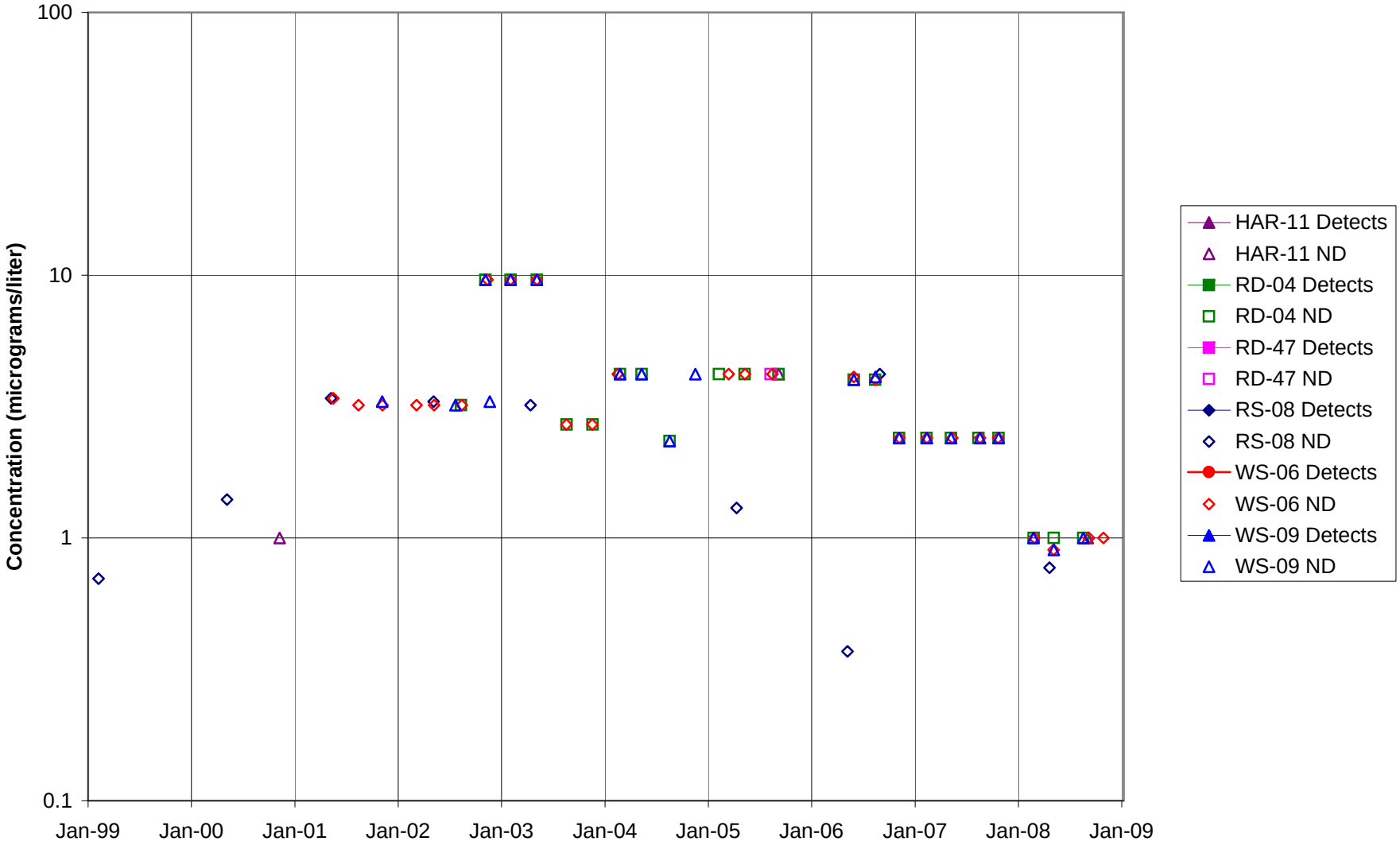


FIGURE F-249. NITROBENZENE in SPA AREA WELLS

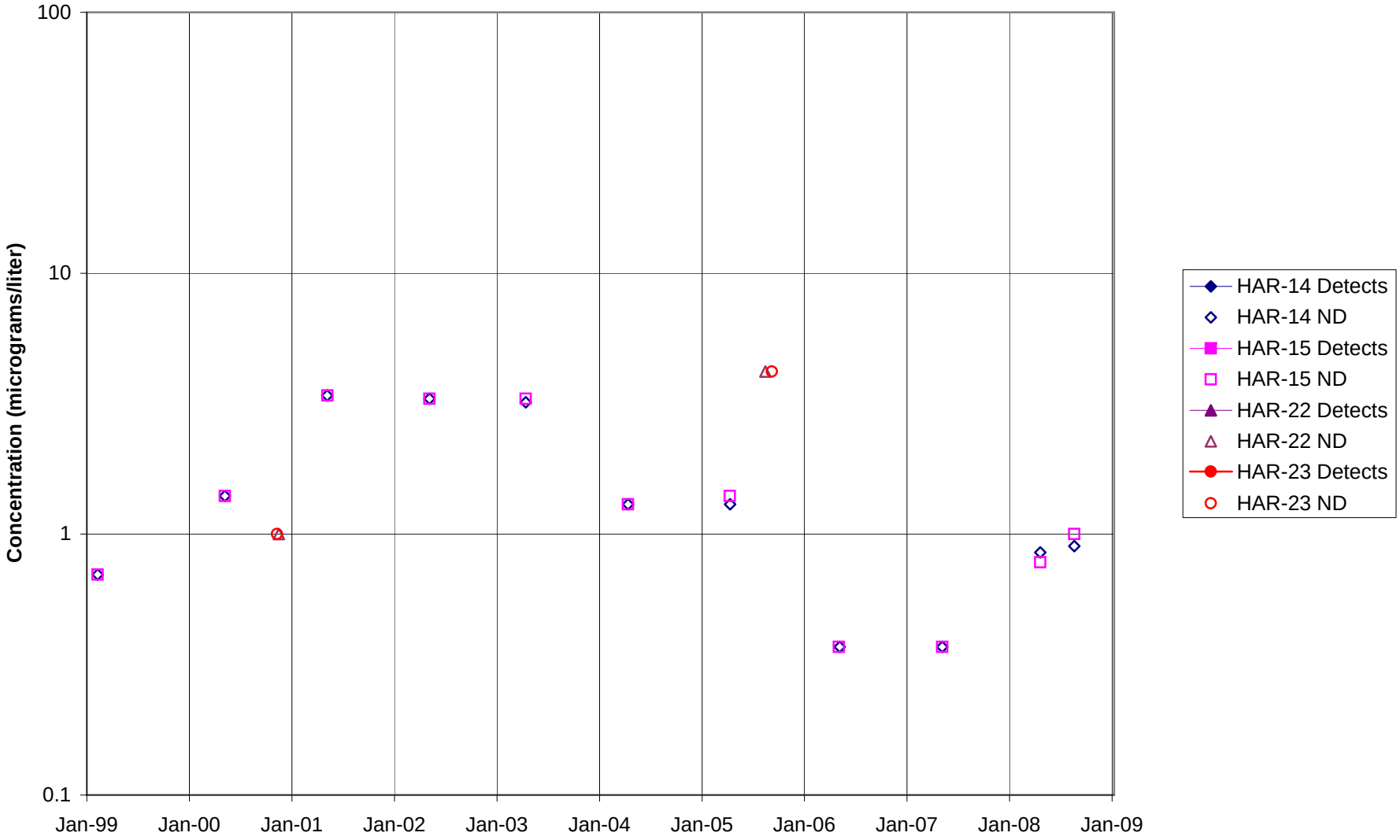
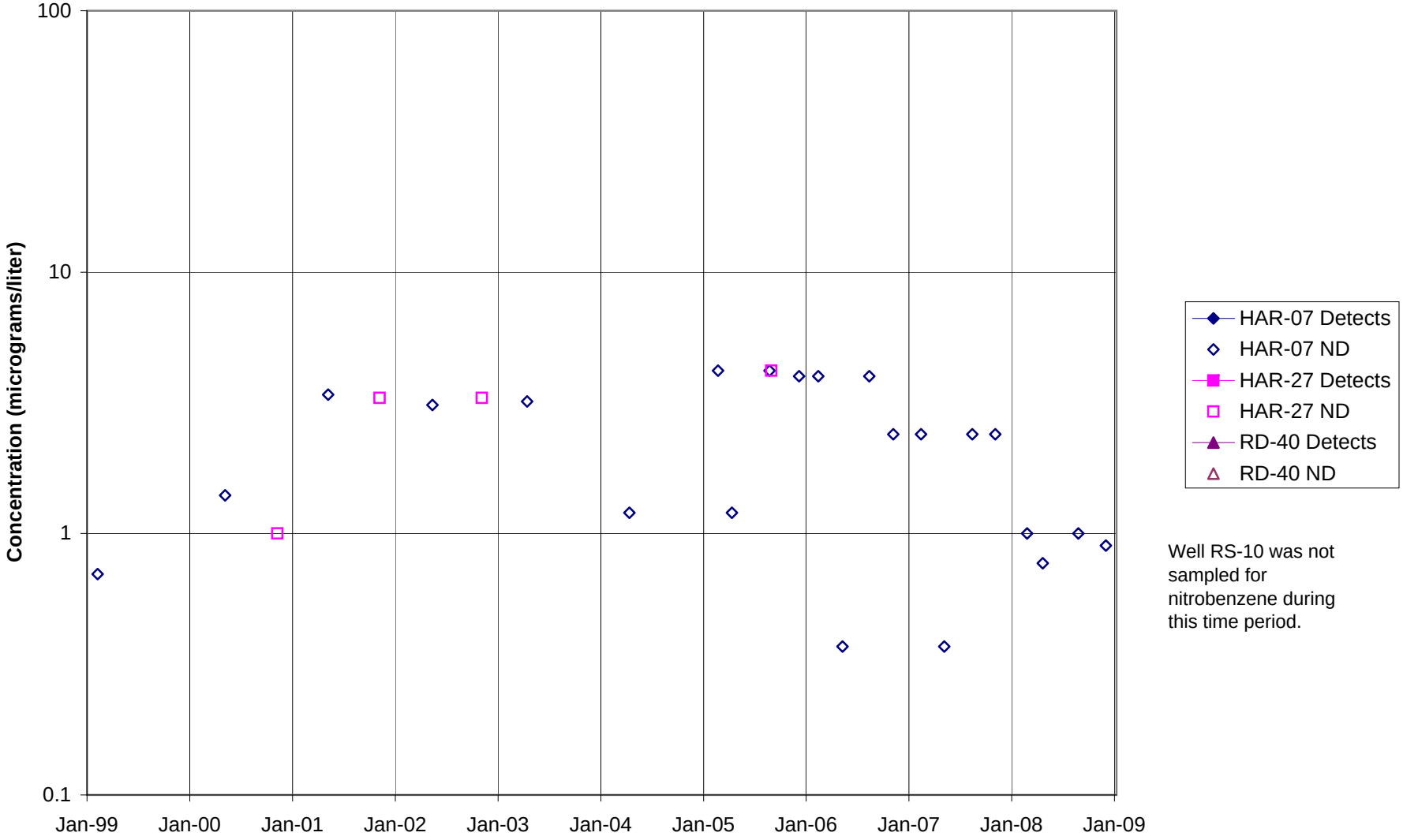


FIGURE F-250. NITROBENZENE in COCA / PLF AREA WELLS



Well RS-10 was not sampled for nitrobenzene during this time period.

FIGURE F-251. NITROBENZENE in DELTA / BUFFER ZONE AREA WELLS

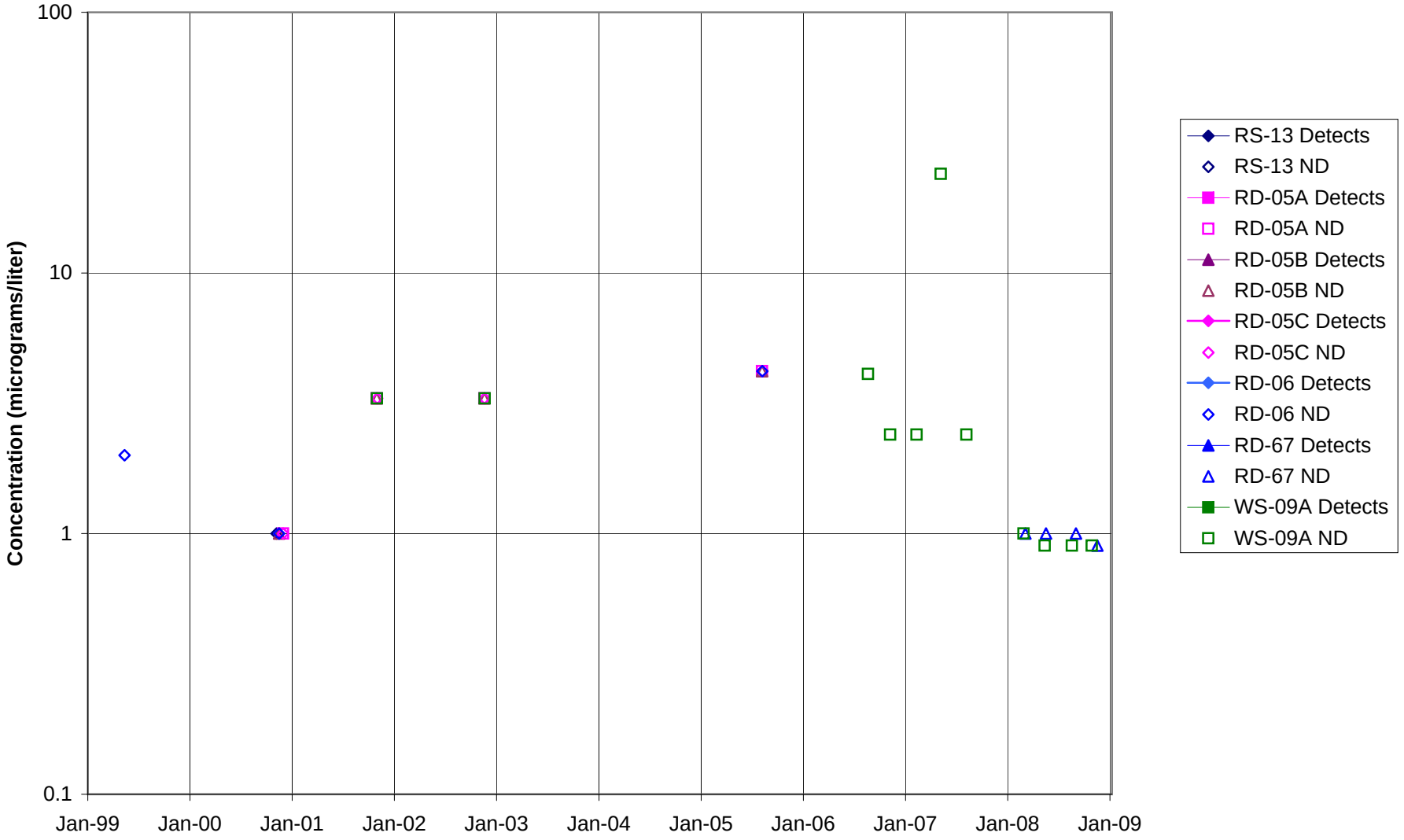


FIGURE F-252. NITROBENZENE in AREA IV WELLS

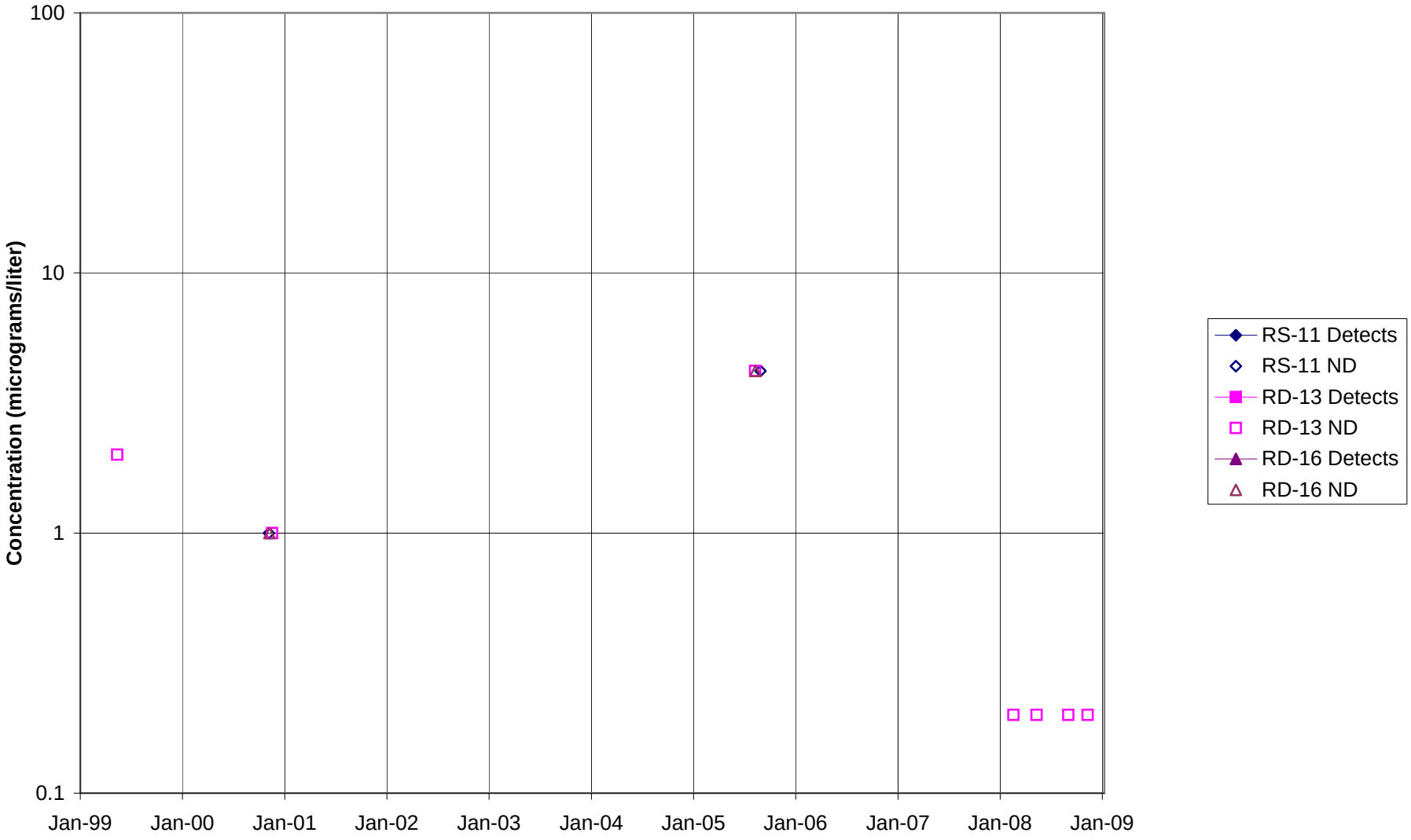


FIGURE F-253. NDMA in STL-IV AREA CHATSWORTH FORMATION WELLS

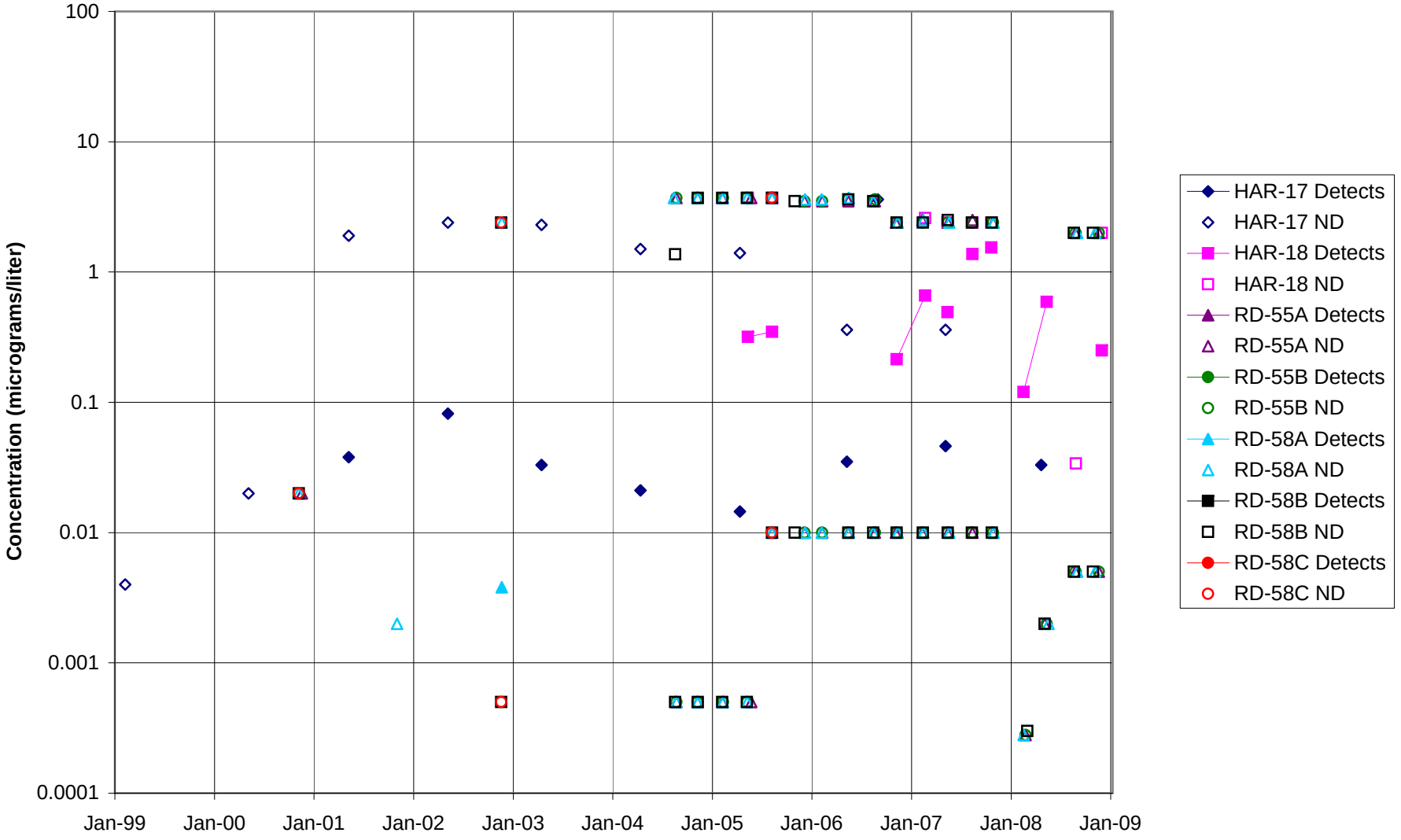


FIGURE F-254. NDMA in MAIN GATE AREA WELLS - 1

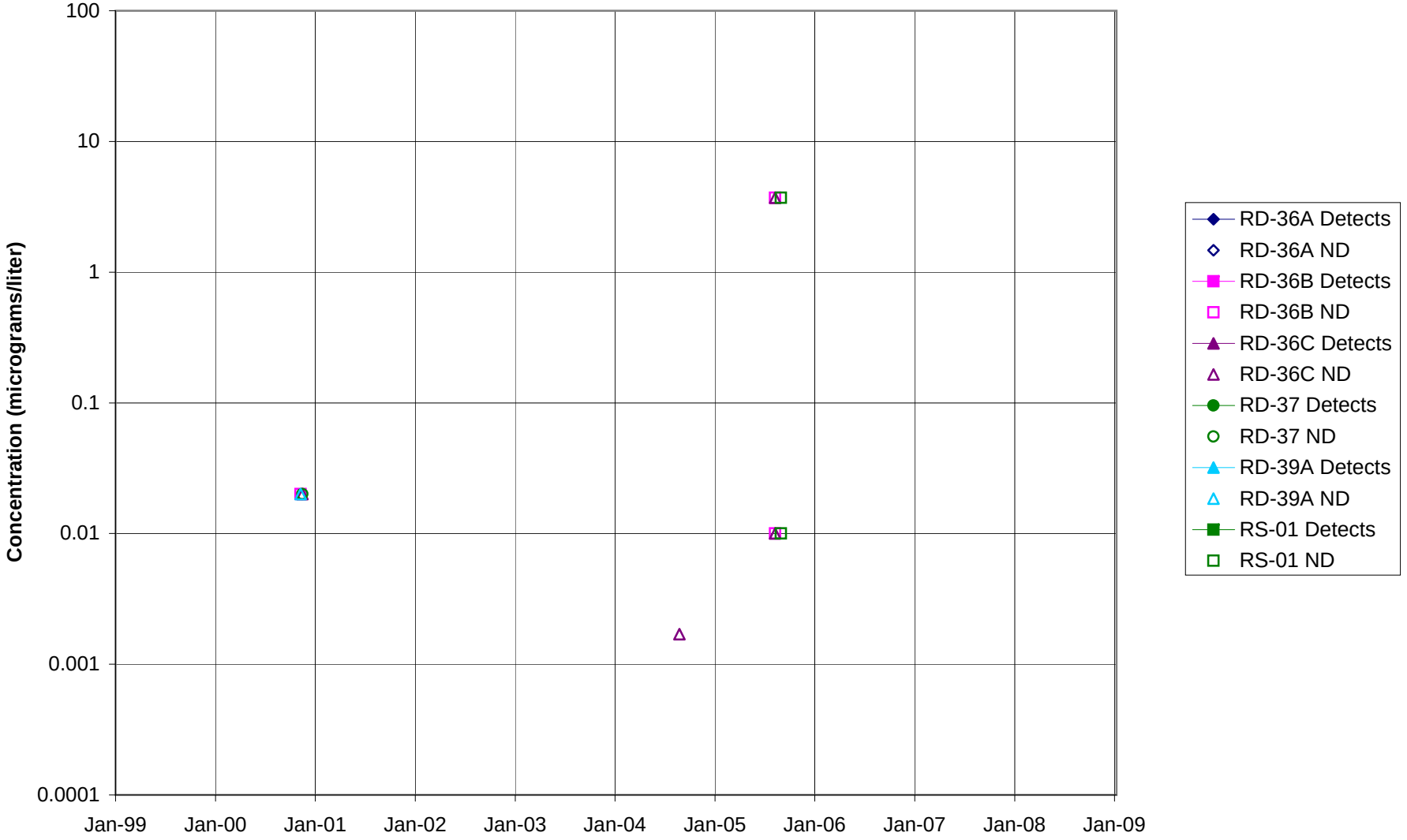


FIGURE F-255. NDMA in MAIN GATE AREA WELLS - 2

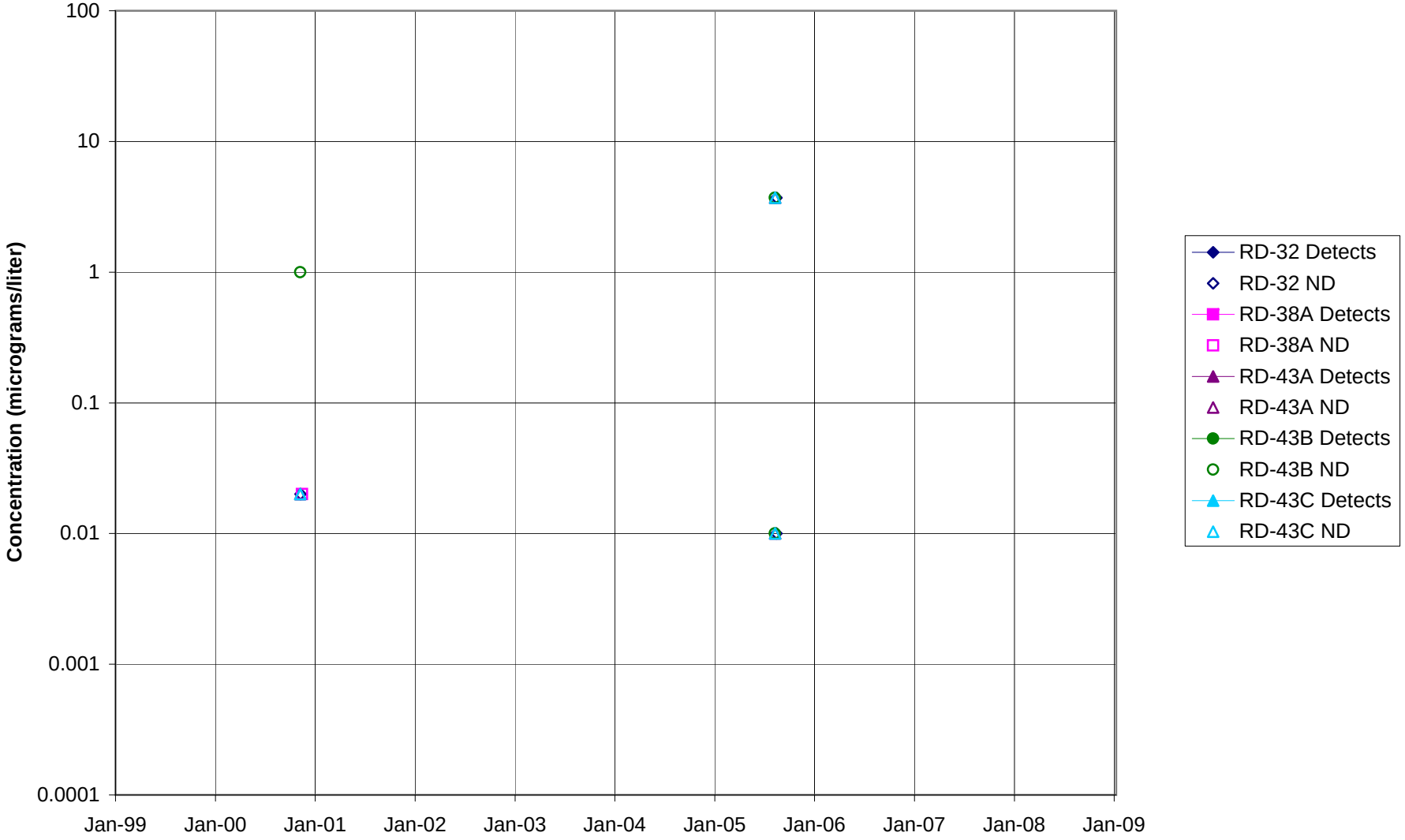


FIGURE F-256. NDMA in APTF, CANYON, & HAPPY VALLEY AREA WELLS - 1

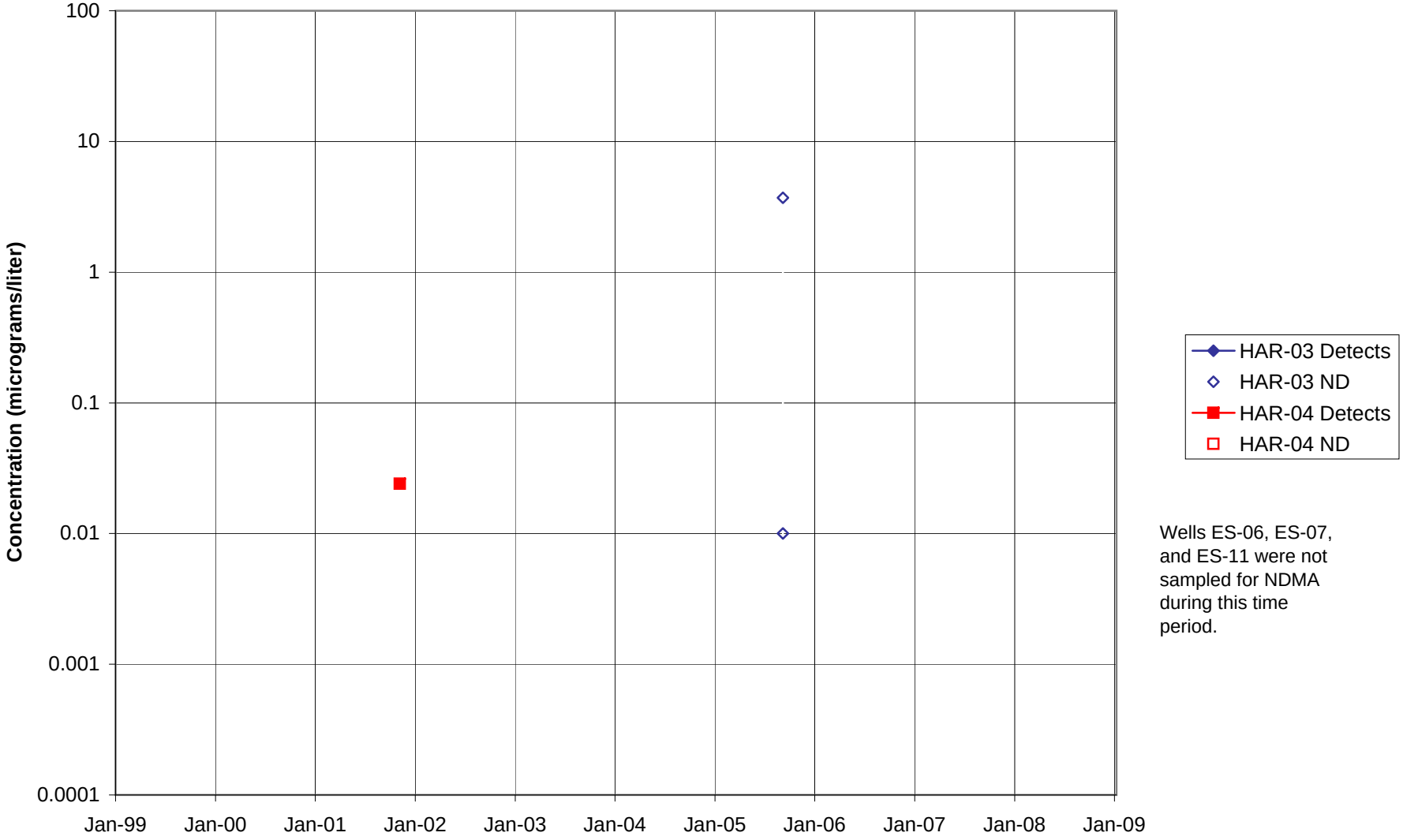


FIGURE F-257. NDMA in APTF, CANYON, & HAPPY VALLEY AREA WELLS - 2

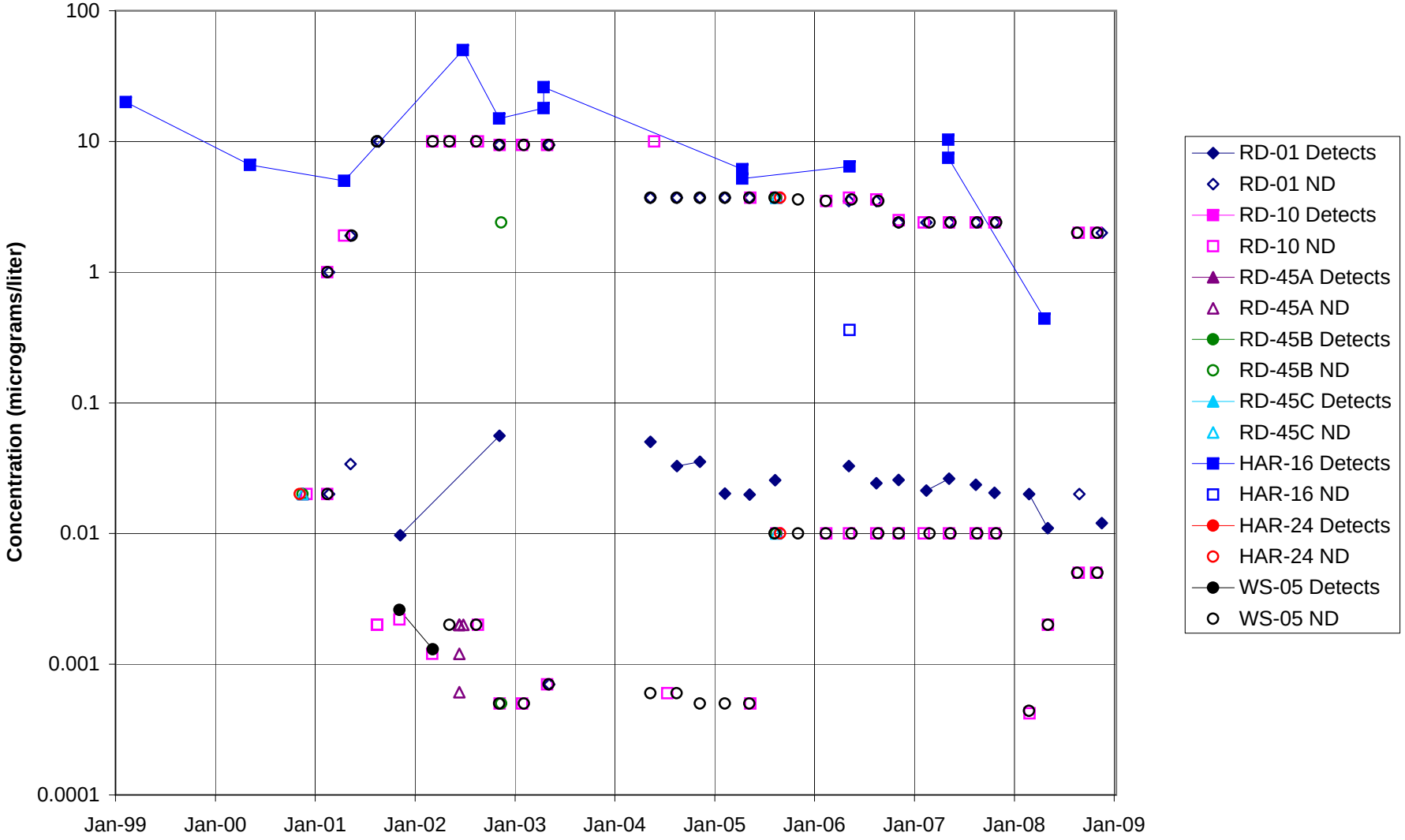


FIGURE F-258. NDMA in CTL-III / PERIMETER POND AREA WELLS

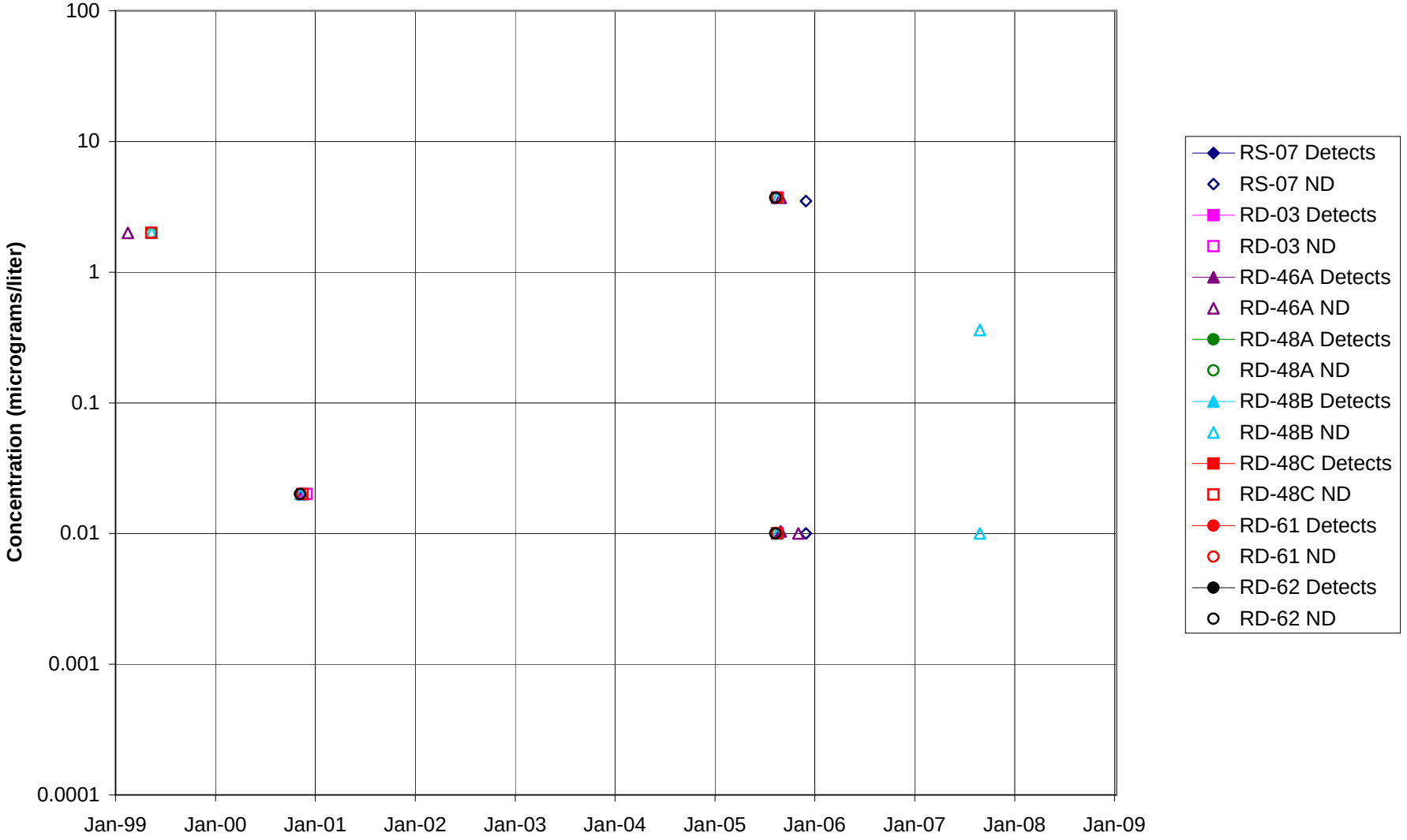
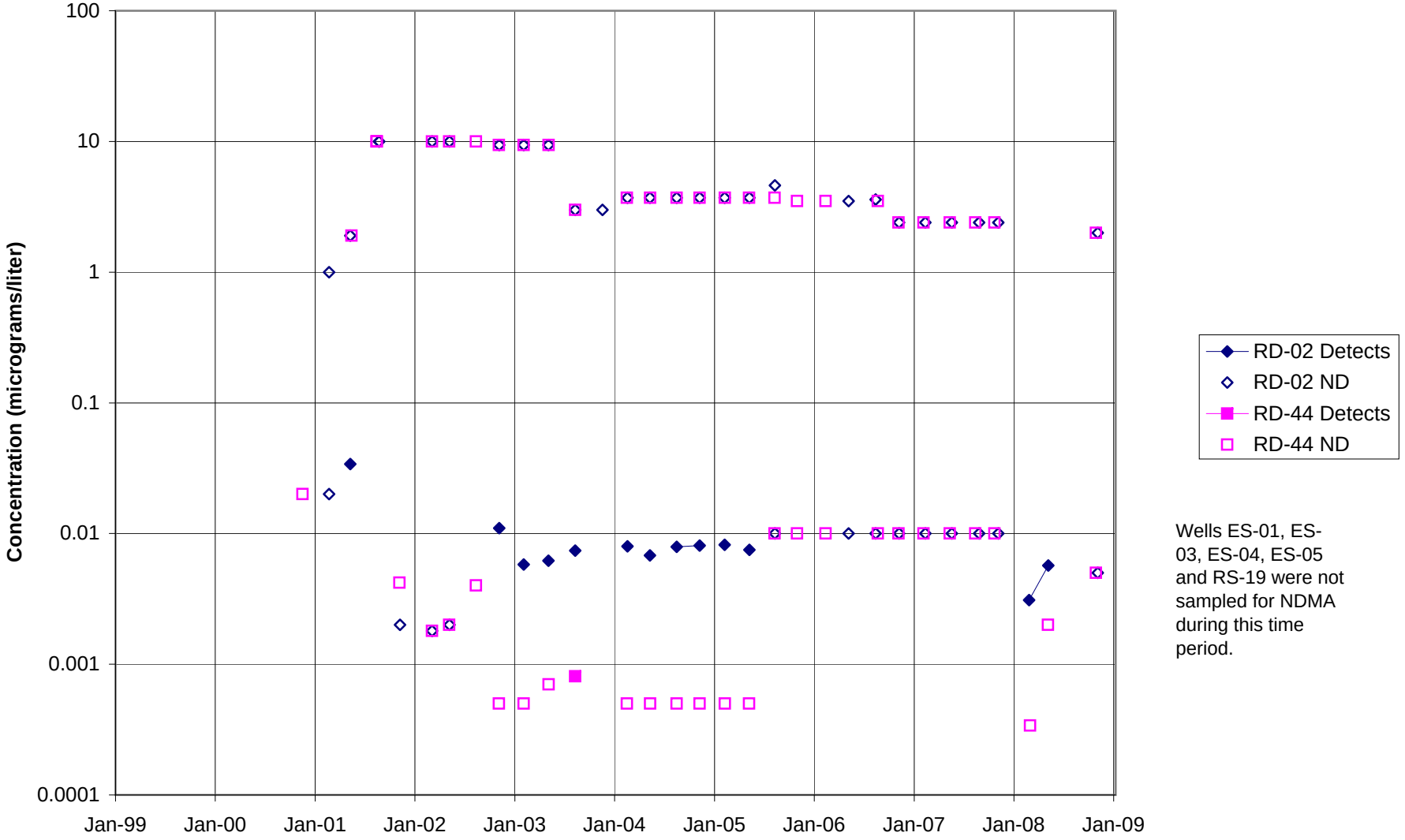


FIGURE F-259. NDMA in BOWL AREA WELLS



Wells ES-01, ES-03, ES-04, ES-05 and RS-19 were not sampled for NDMA during this time period.

FIGURE F-260. NDMA in ECL AREA WELLS

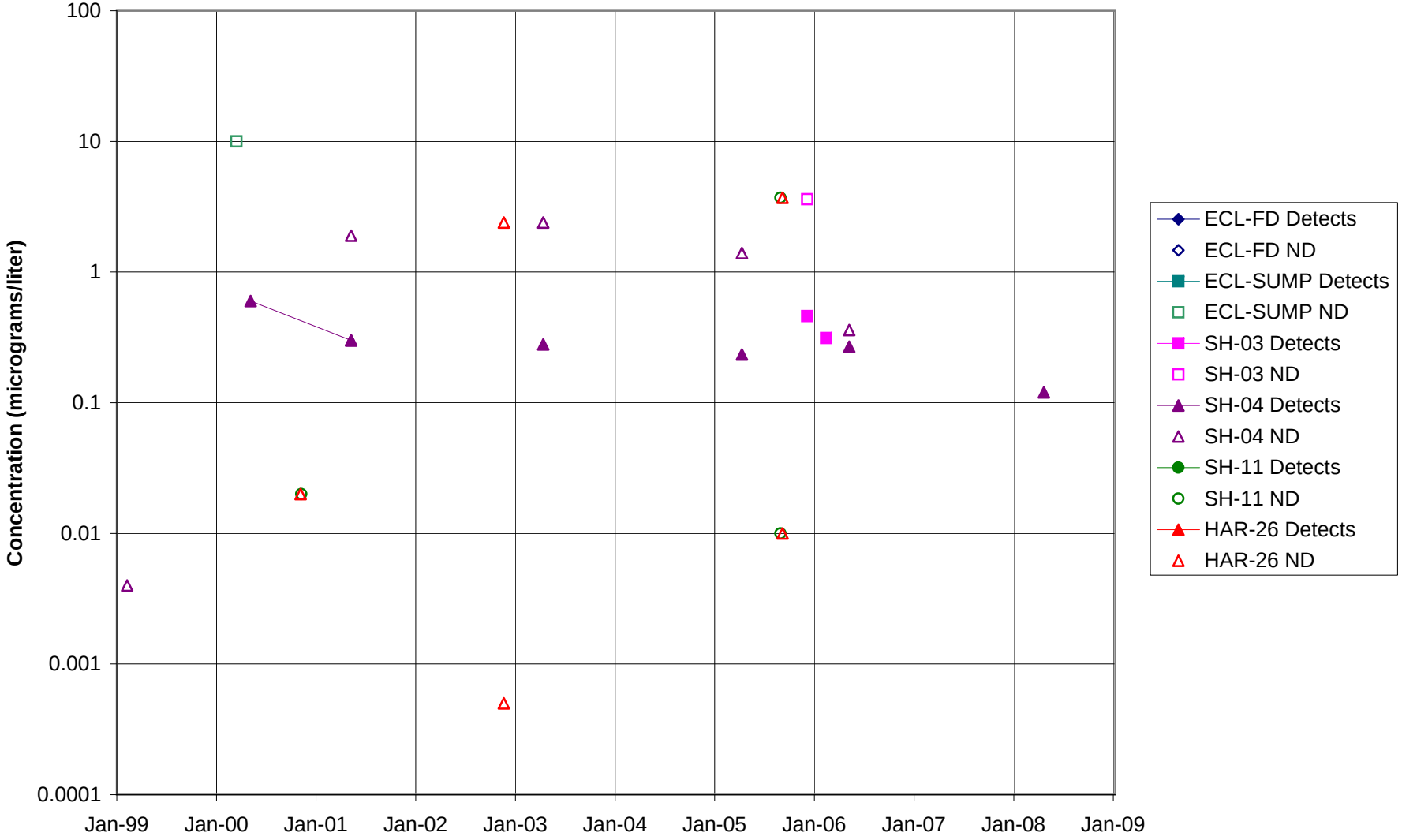


FIGURE F-261. NDMA in FORMER LOX PLANT AREA WELLS

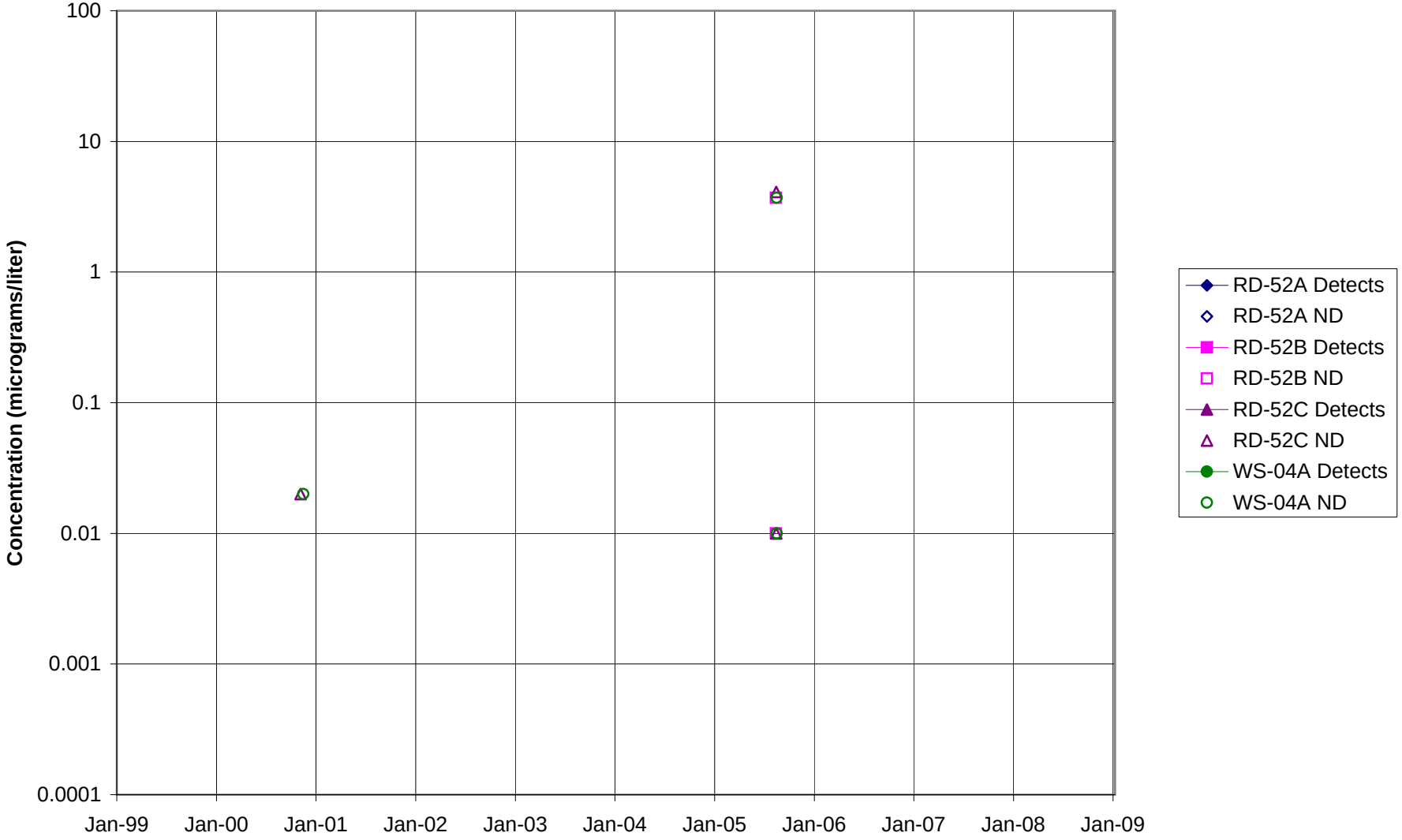


FIGURE F-262. NDMA in RD-09 AREA WELLS

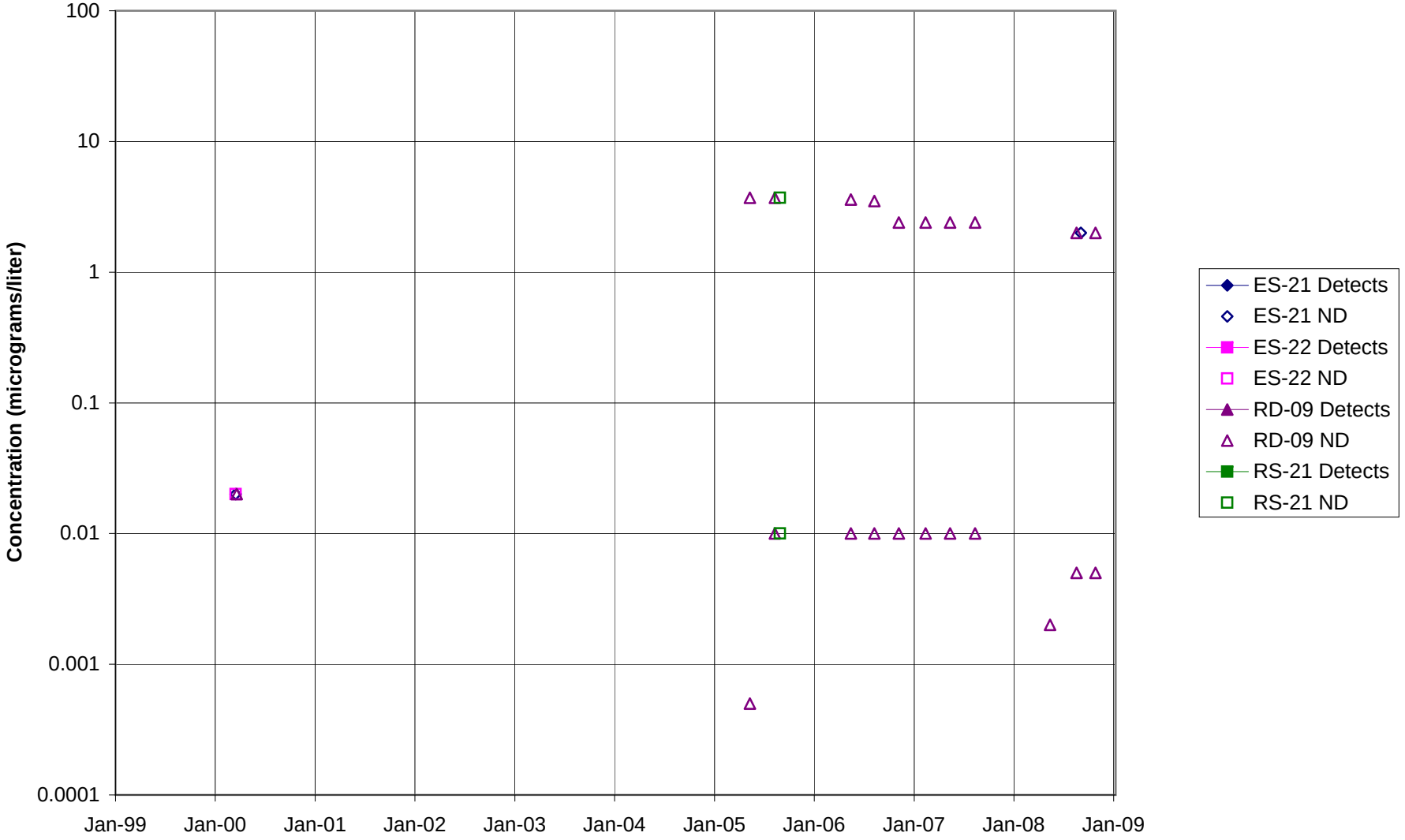
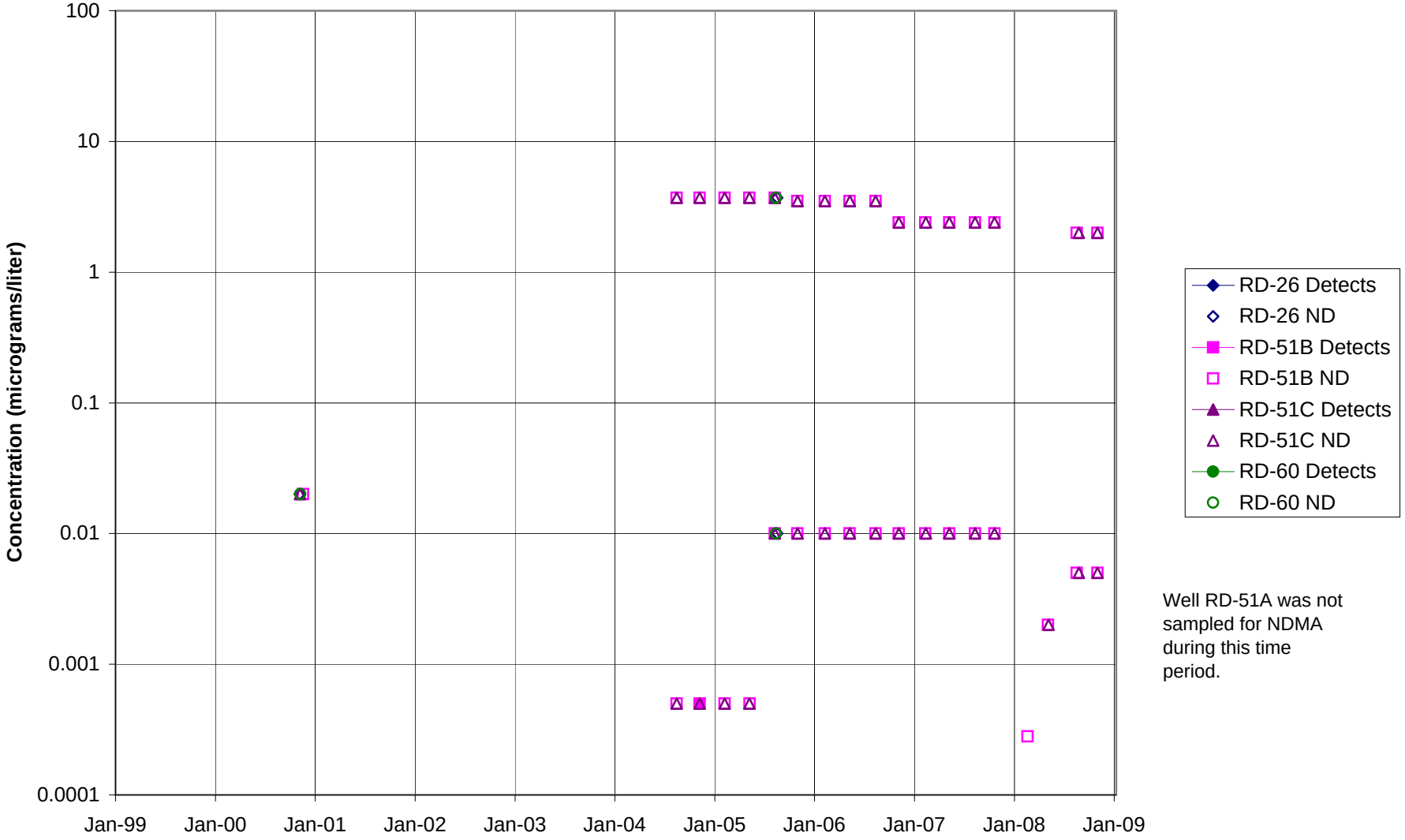


FIGURE F-263. NDMA in HELIPORT, B/204 AREA WELLS



Well RD-51A was not sampled for NDMA during this time period.

FIGURE F-264. NDMA in ALFA / BRAVO AREA WELLS

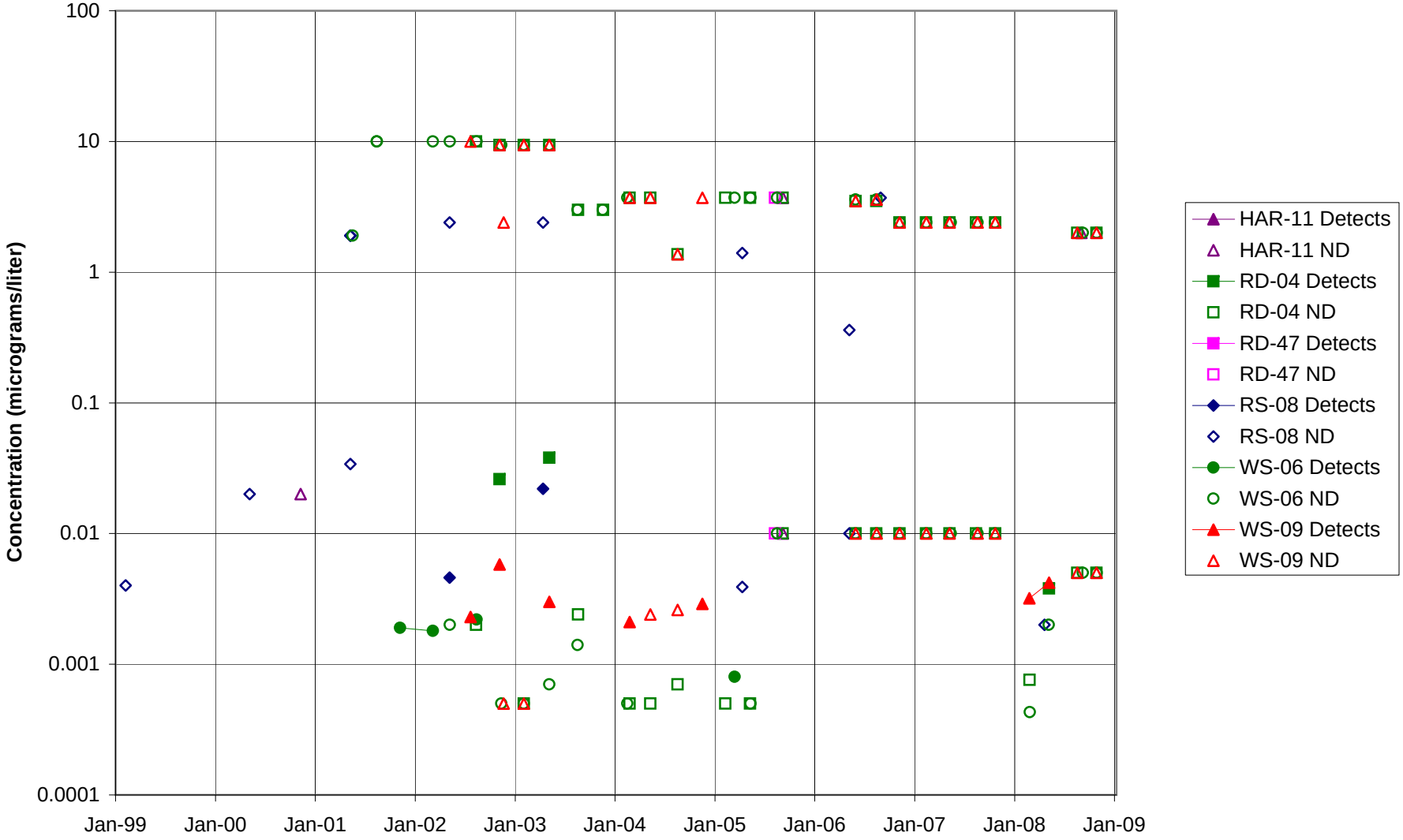


FIGURE F-265. NDMA in SPA AREA WELLS

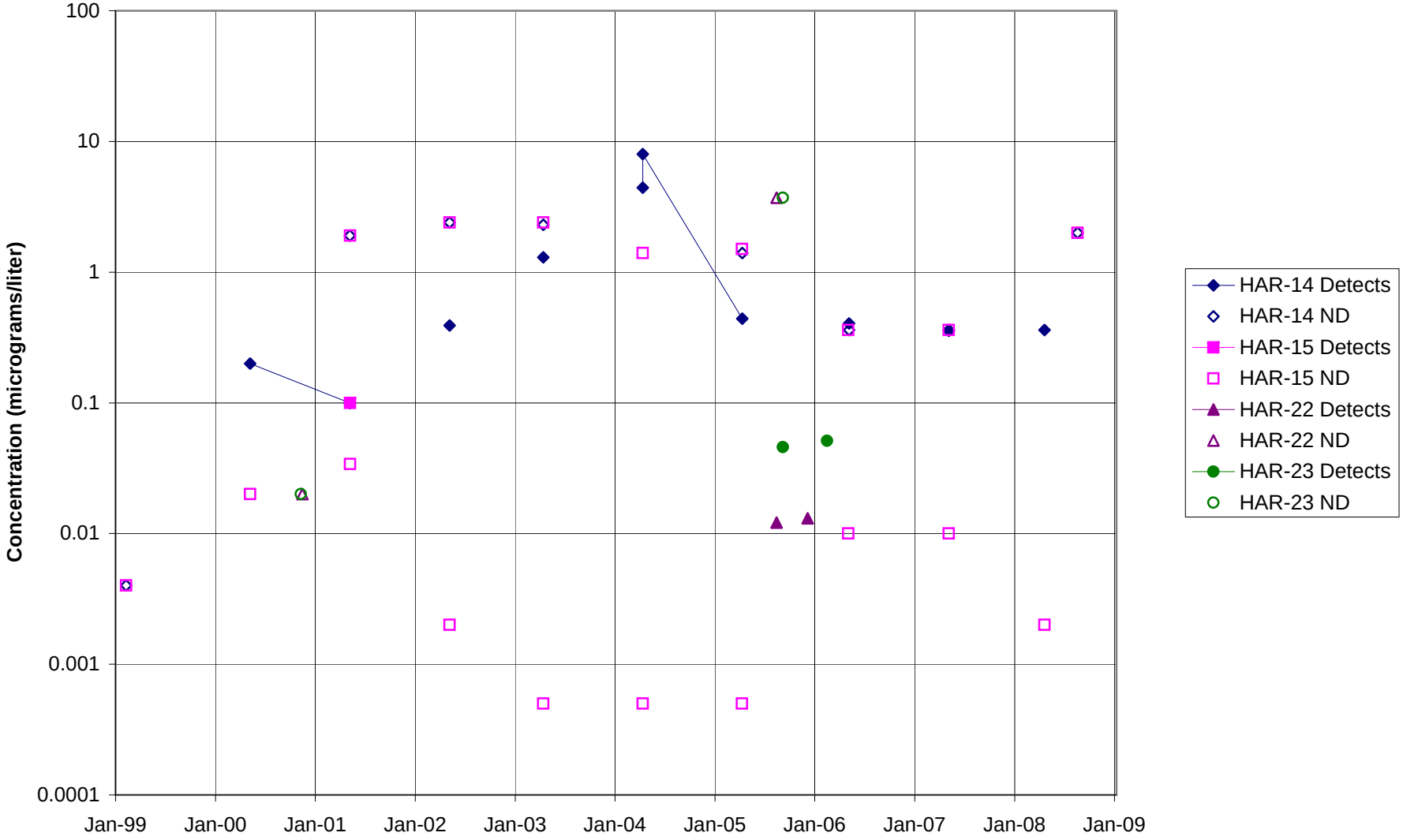
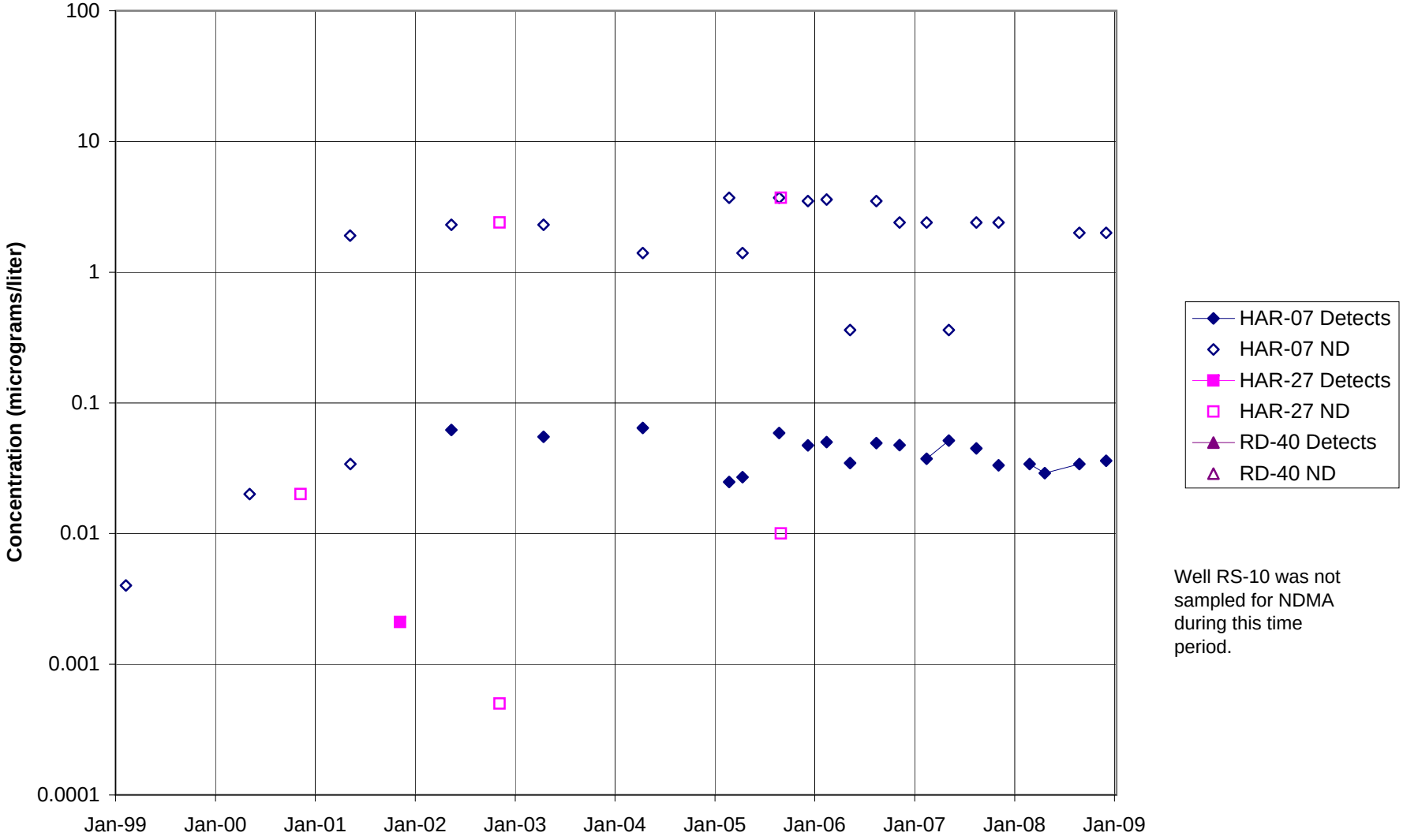


FIGURE F-266. NDMA in COCA / PLF AREA WELLS



Well RS-10 was not sampled for NDMA during this time period.

FIGURE F-267. NDMA in DELTA / BUFFER ZONE AREA WELLS

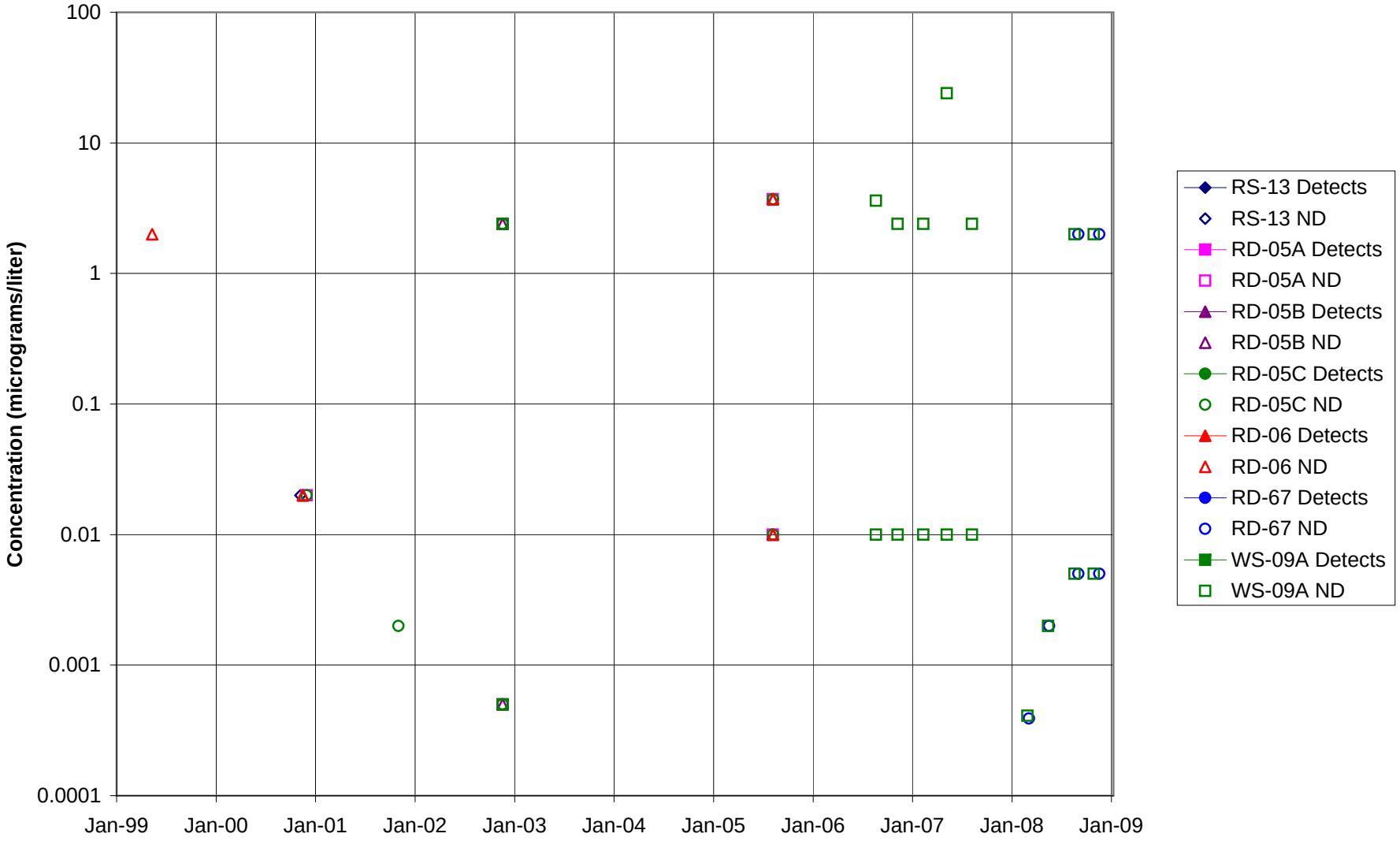


FIGURE F-268. NDMA in AREA IV WELLS

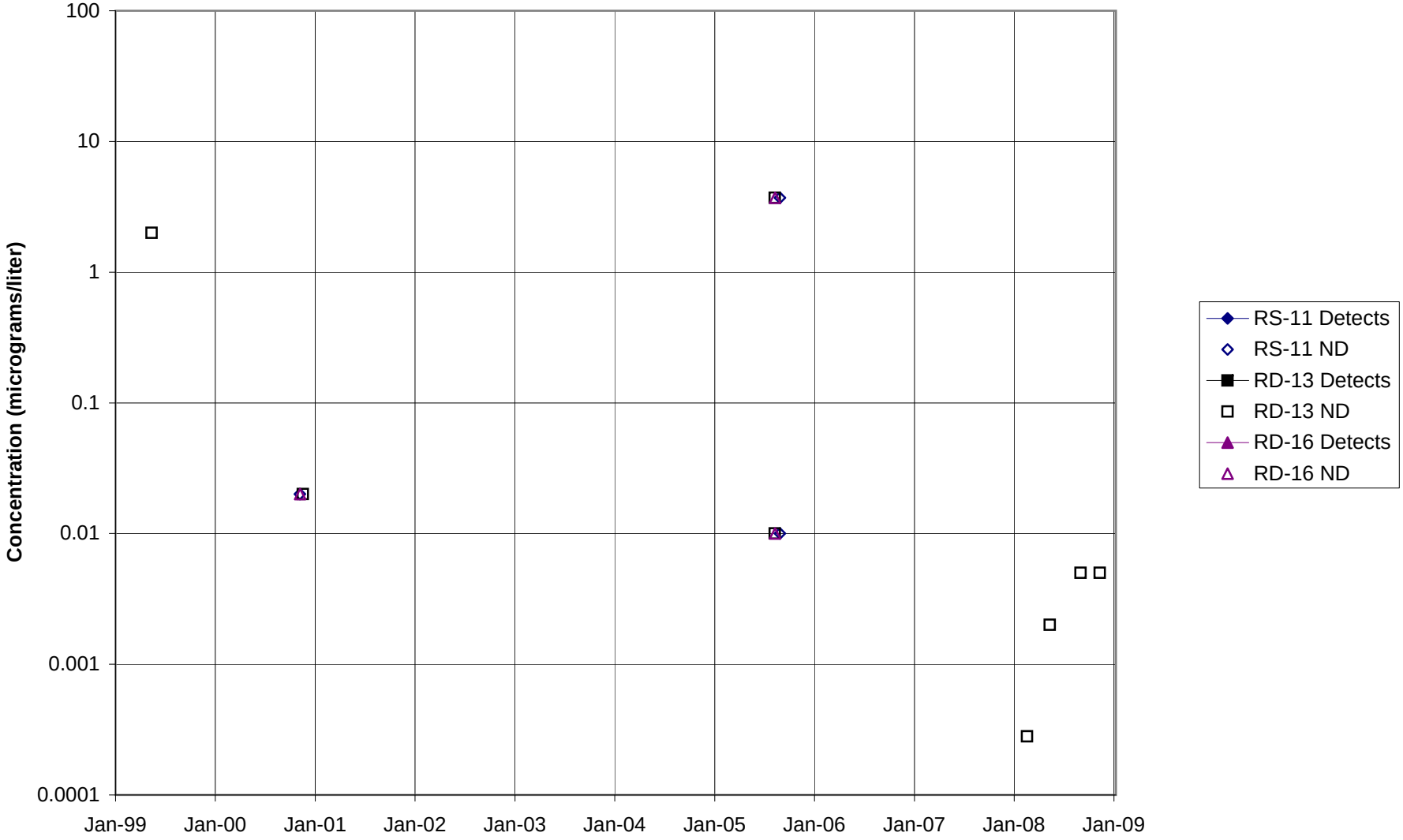


FIGURE F-269. PERCHLORATE in STL-IV AREA SHALLOW WELLS

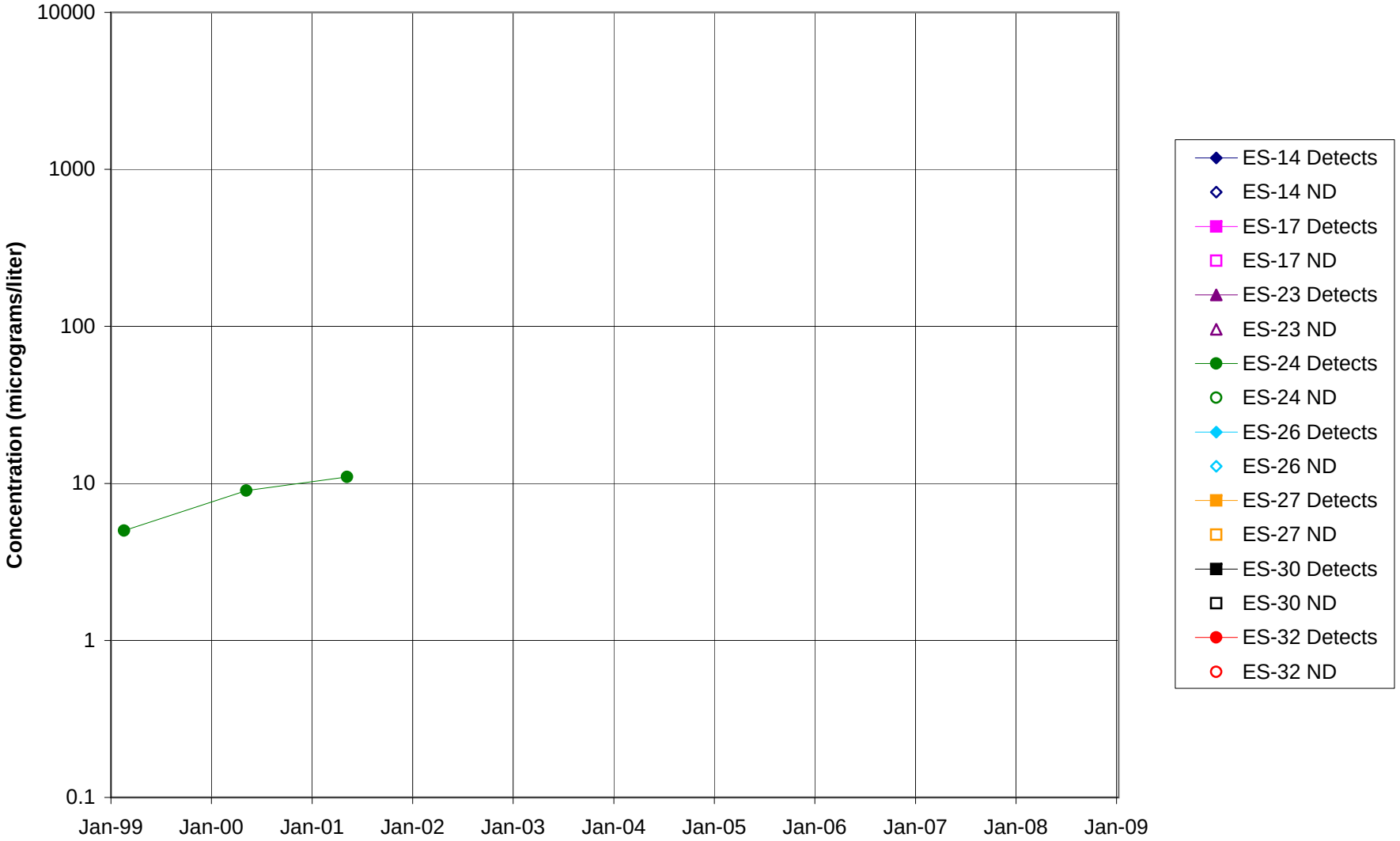


FIGURE F-270. PERCHLORATE in STL-IV AREA CHATSWORTH FORMATION WELLS

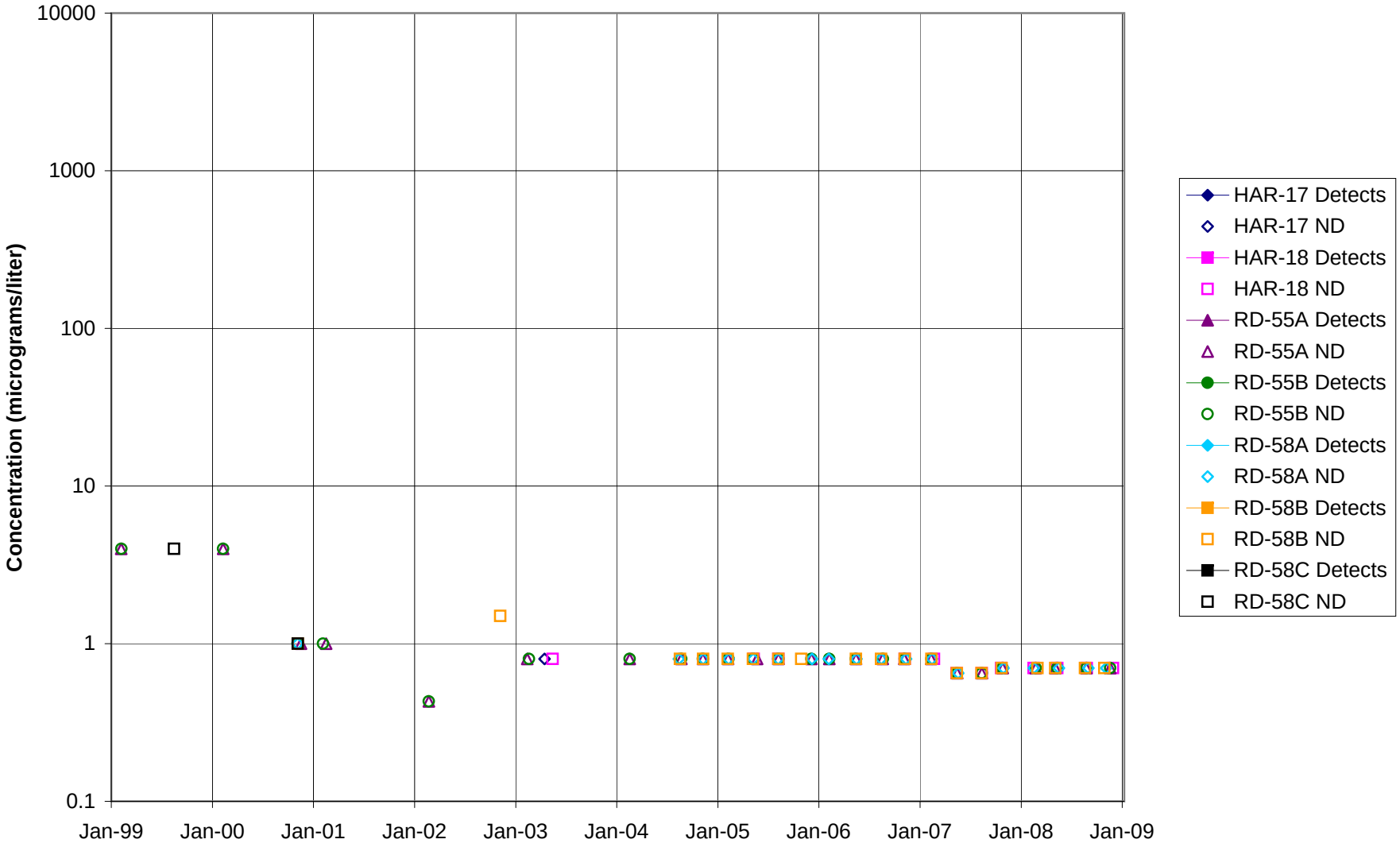


FIGURE F-271. PERCHLORATE in MAIN GATE AREA WELLS - 1

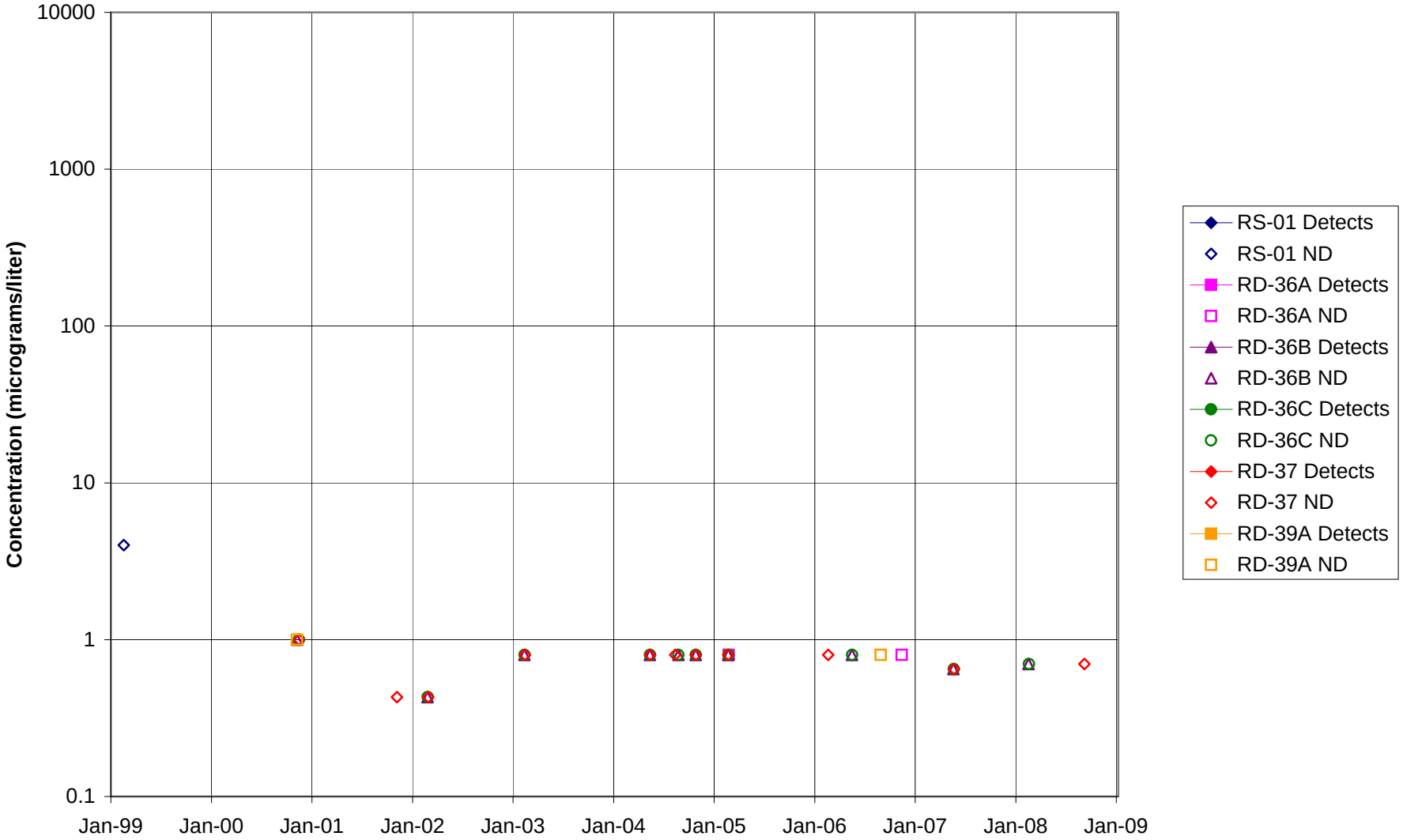


FIGURE F-272. PERCHLORATE in MAIN GATE AREA WELLS - 2

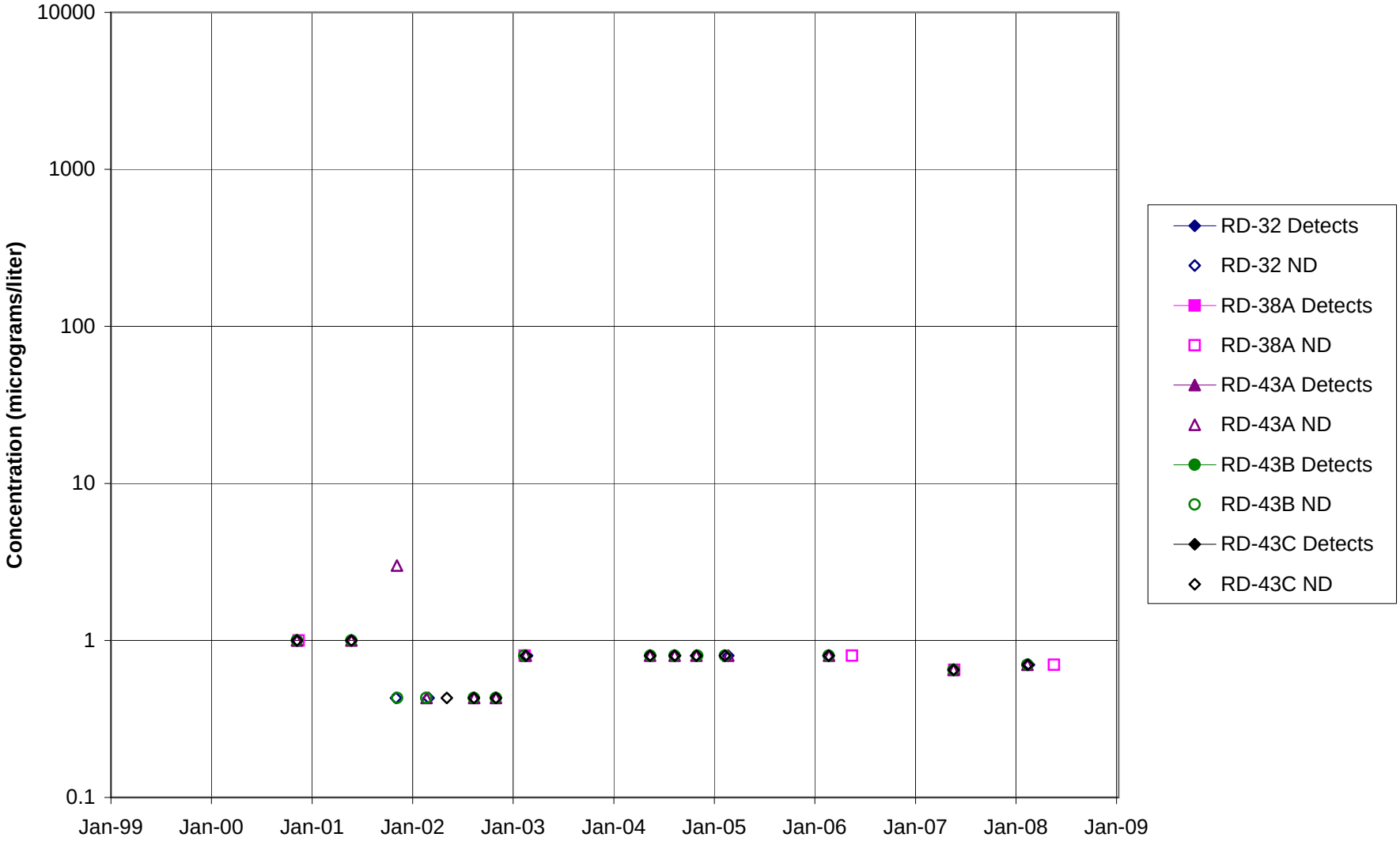


FIGURE F-273. PERCHLORATE in APTF, CANYON, & HAPPY VALLEY AREA WELLS - 1

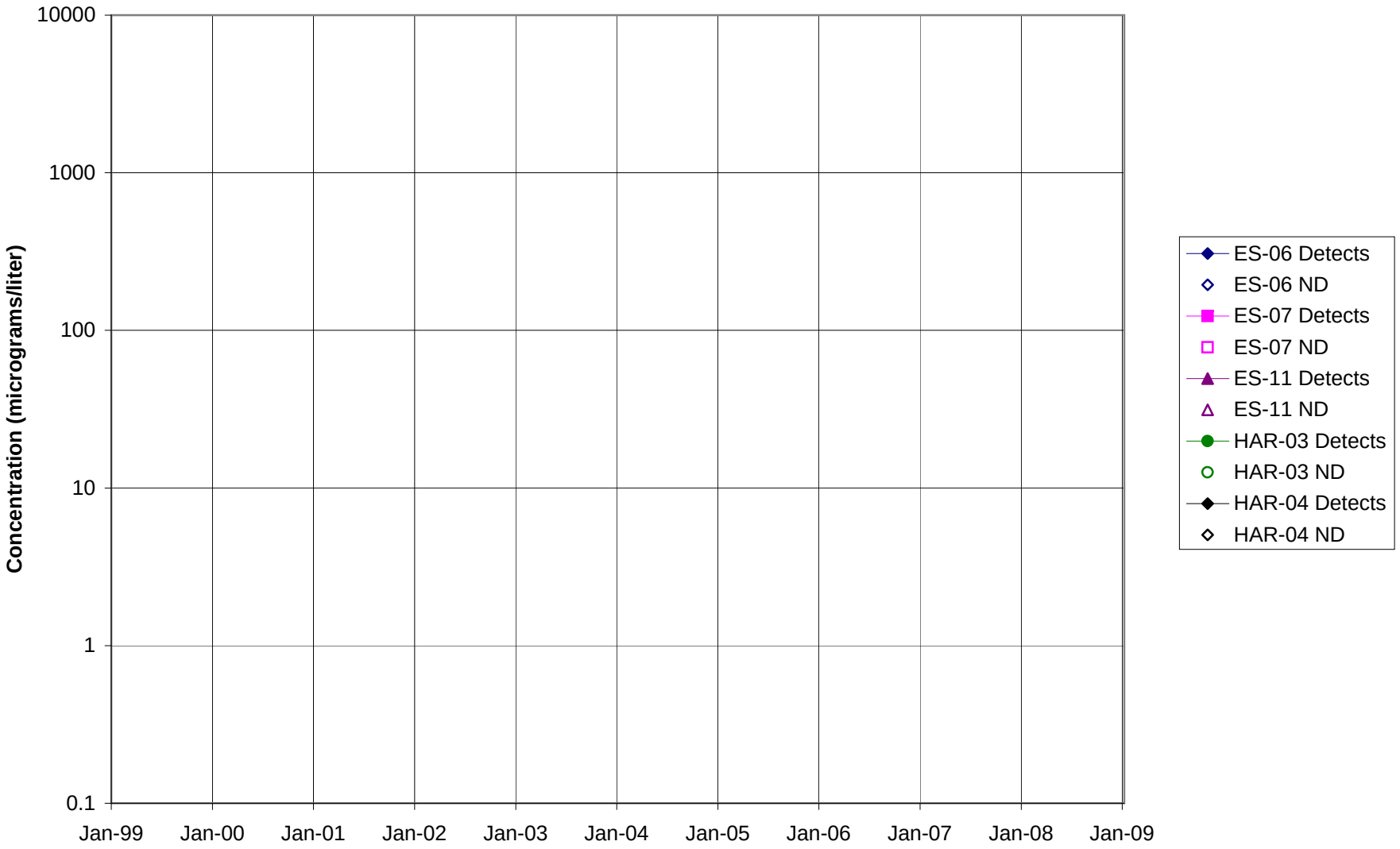


FIGURE F-274. PERCHLORATE in APTF, CANYON, & HAPPY VALLEY AREA WELLS - 2

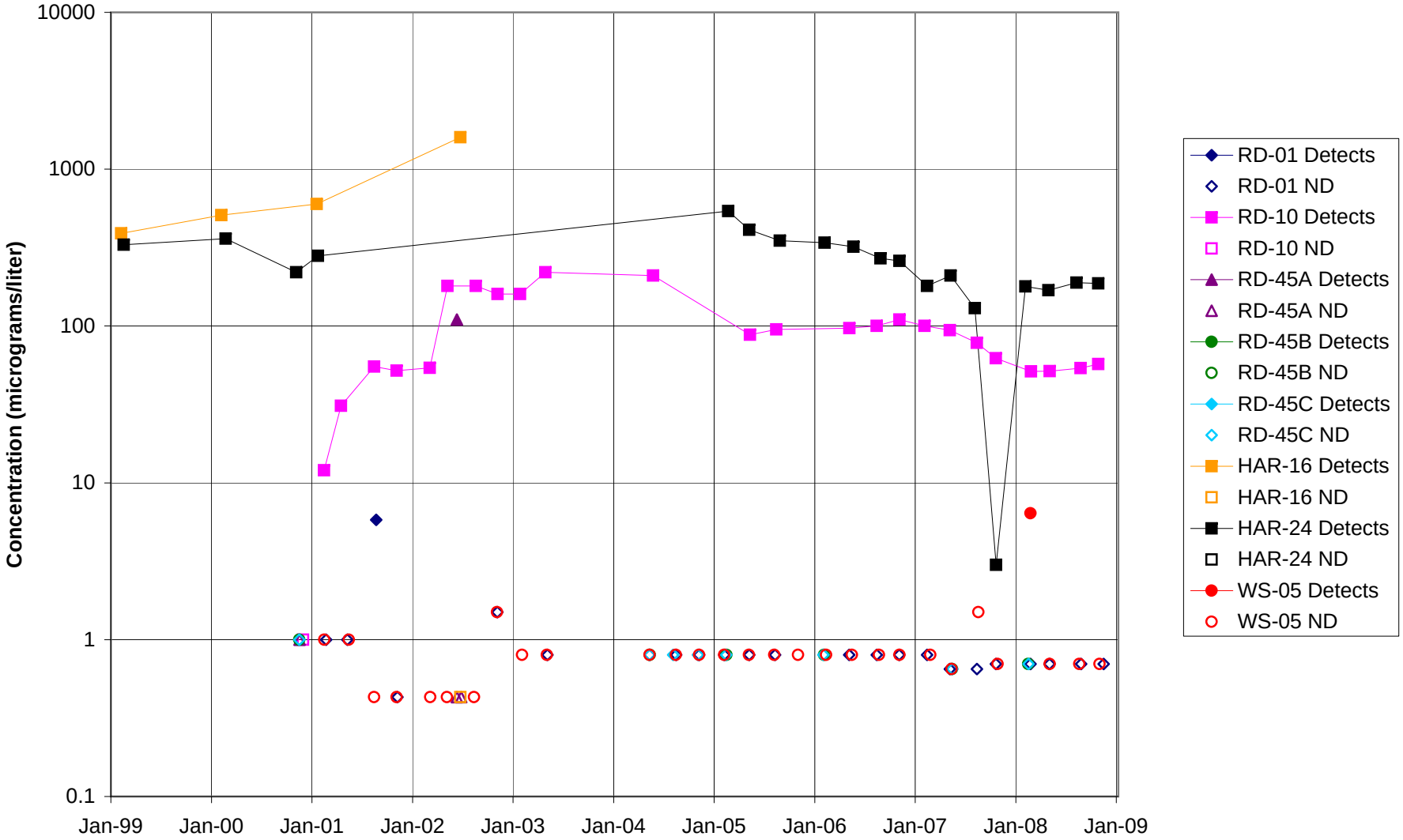


FIGURE F-275. PERCHLORATE in CTL-III / PERIMETER POND AREA WELLS

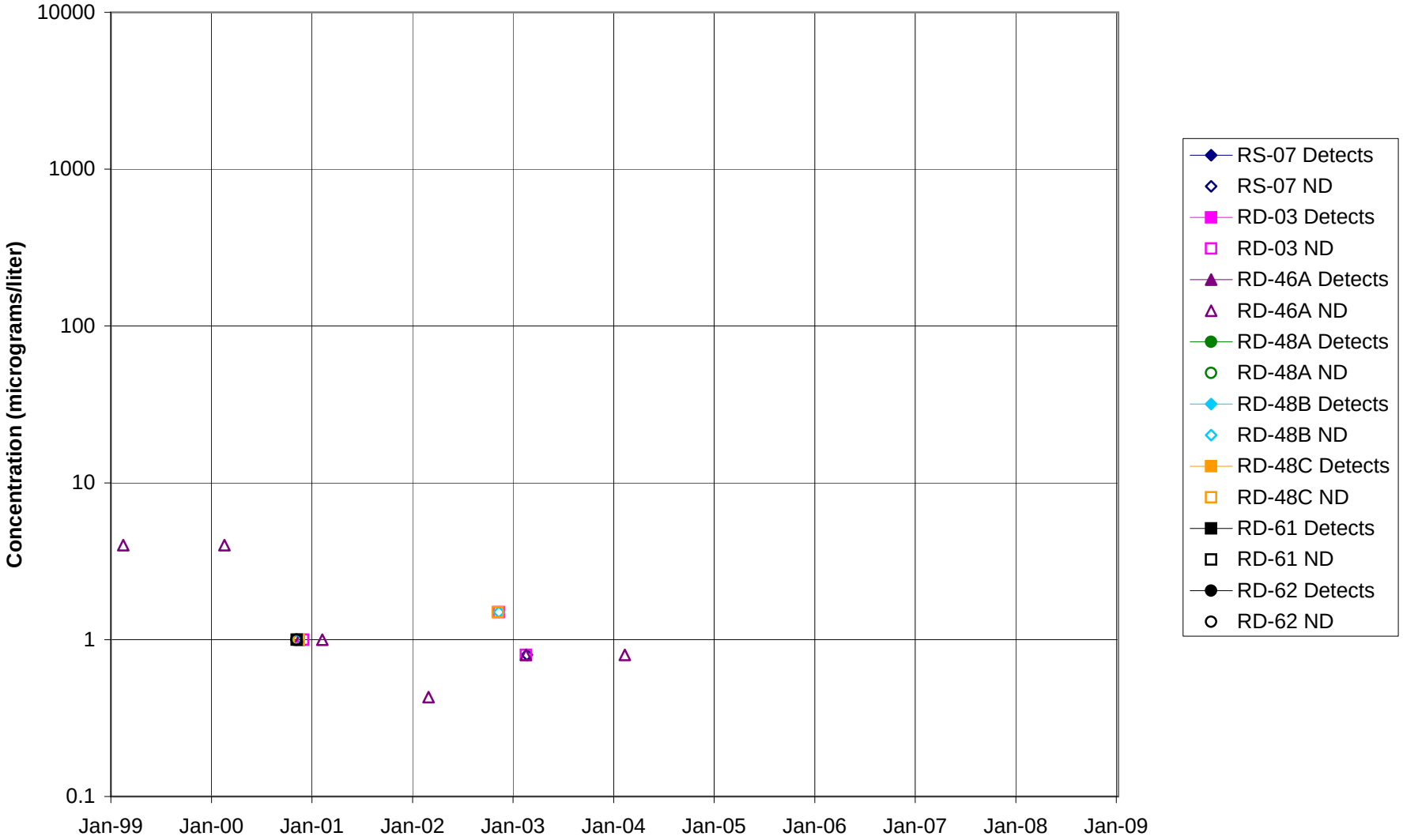


FIGURE F-276. PERCHLORATE in BOWL AREA WELLS

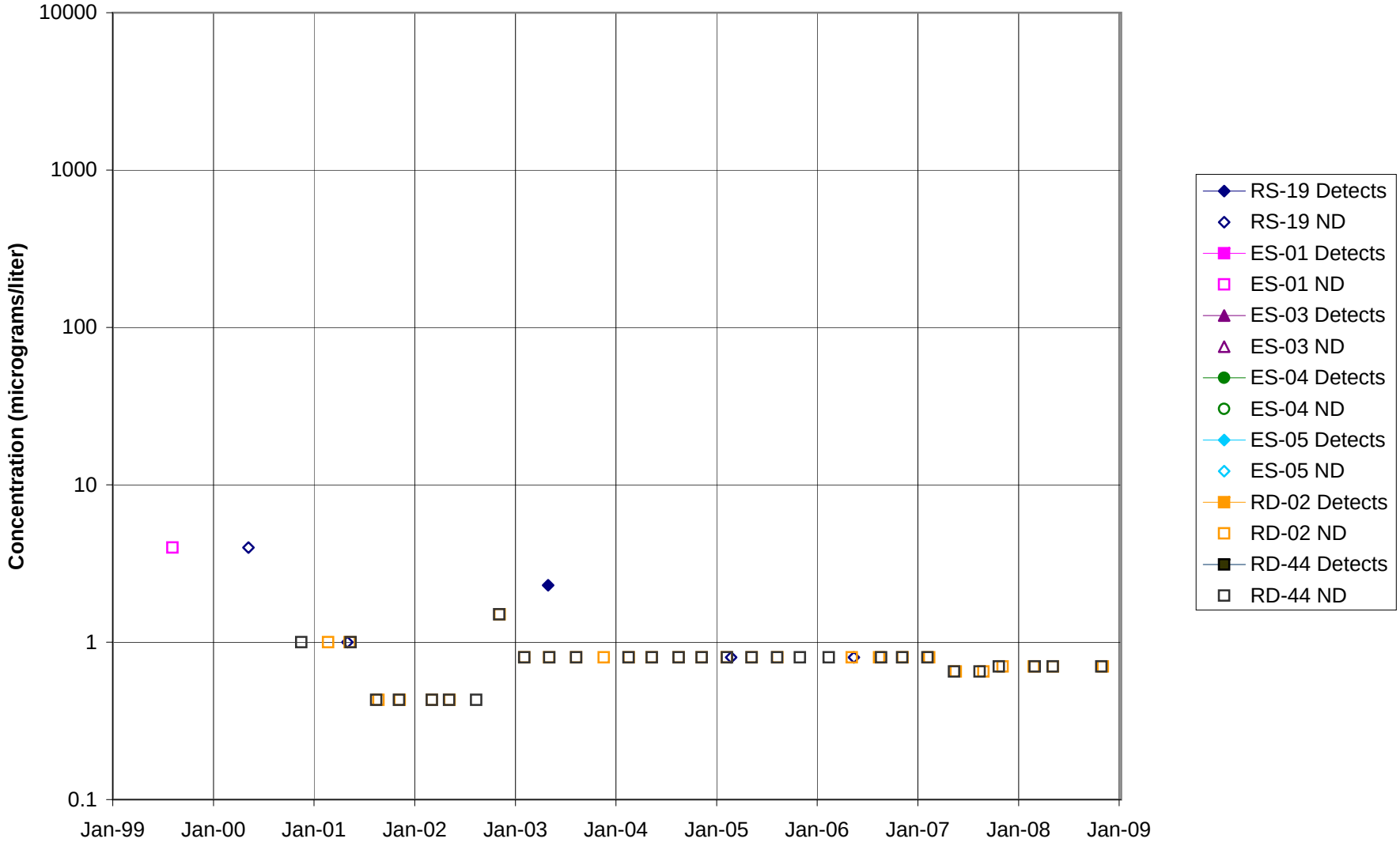


FIGURE F-277. PERCHLORATE in ECL AREA WELLS

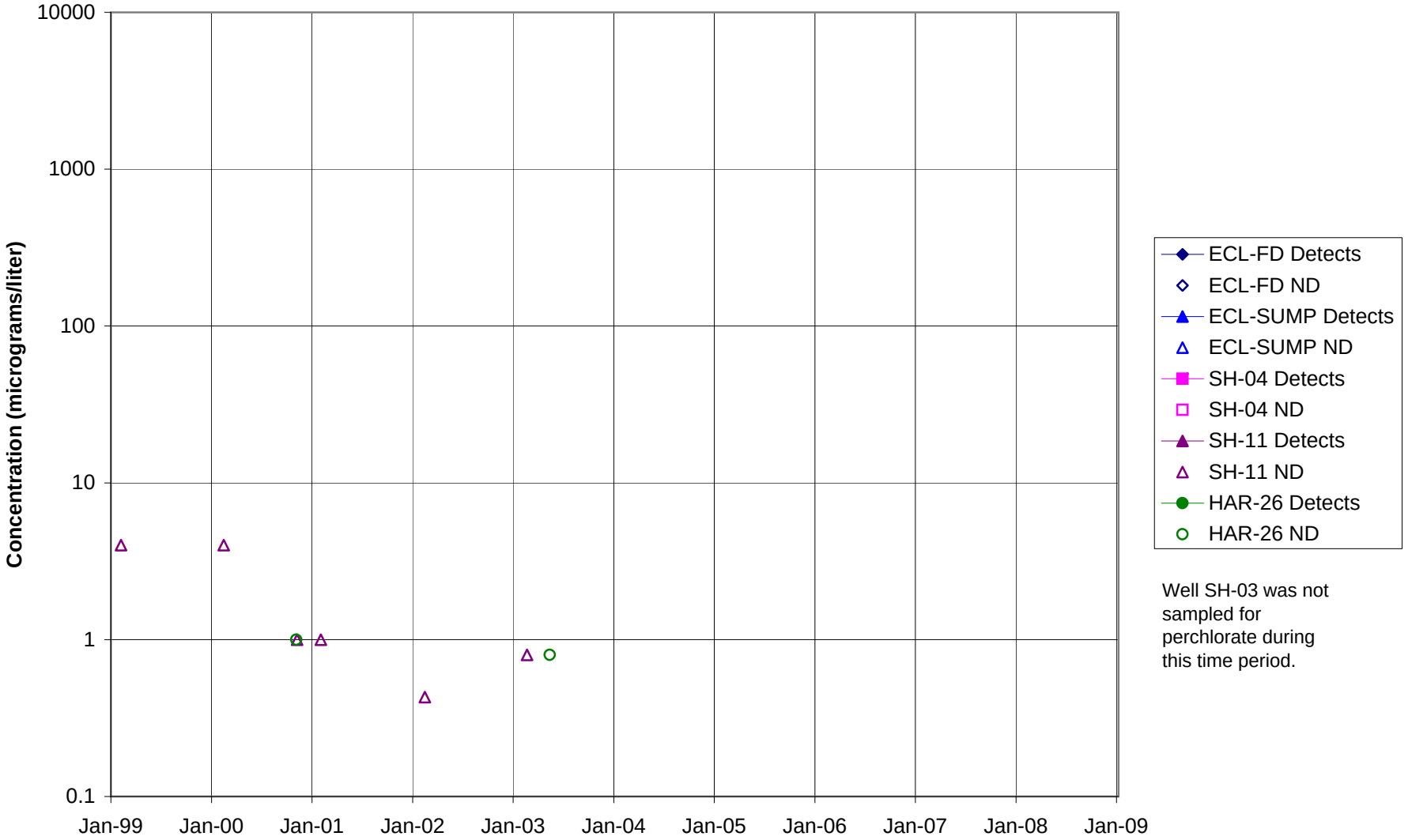


FIGURE F-278. PERCHLORATE in FORMER LOX PLANT AREA WELLS

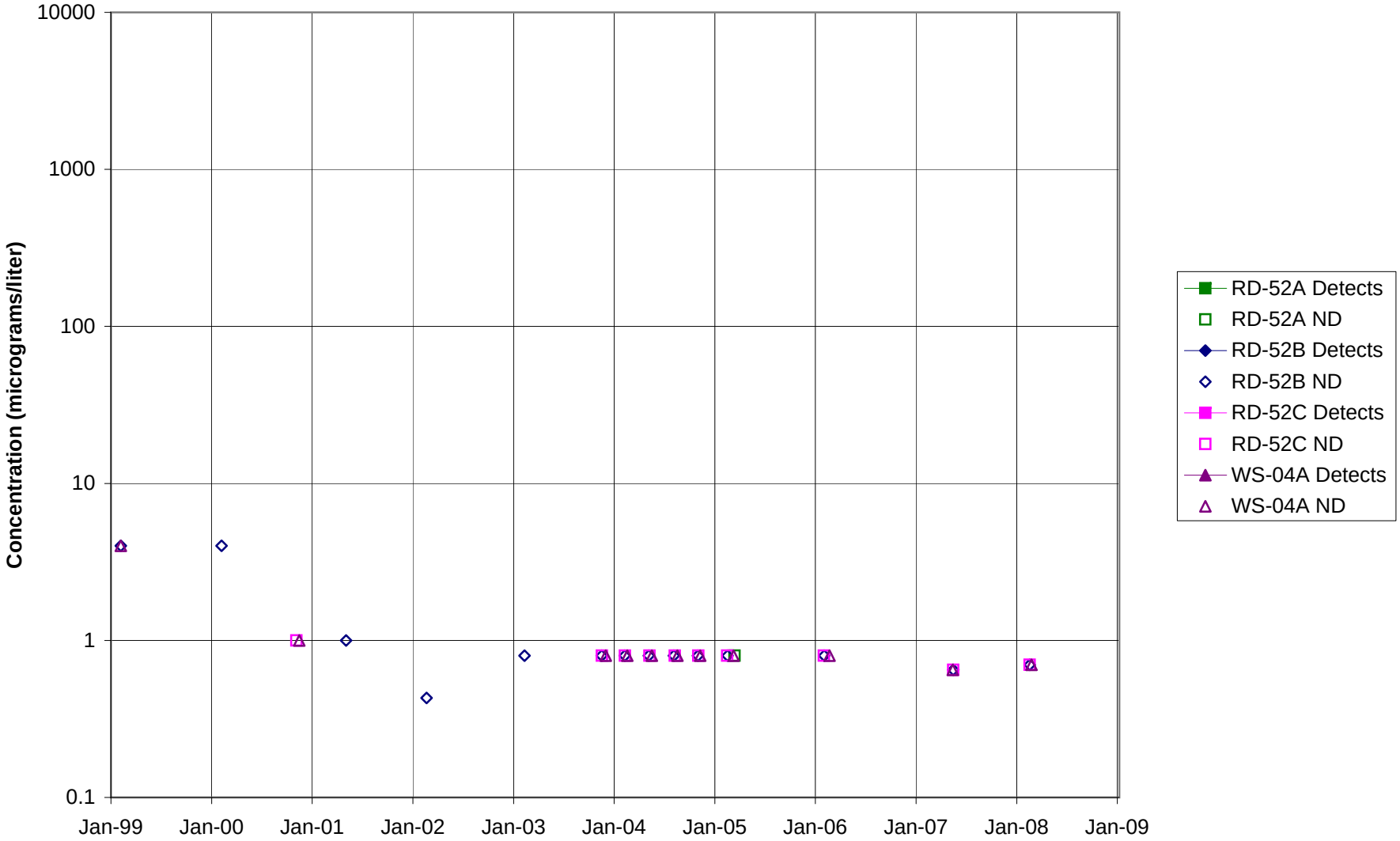


FIGURE F-279. PERCHLORATE in RD-09 AREA WELLS

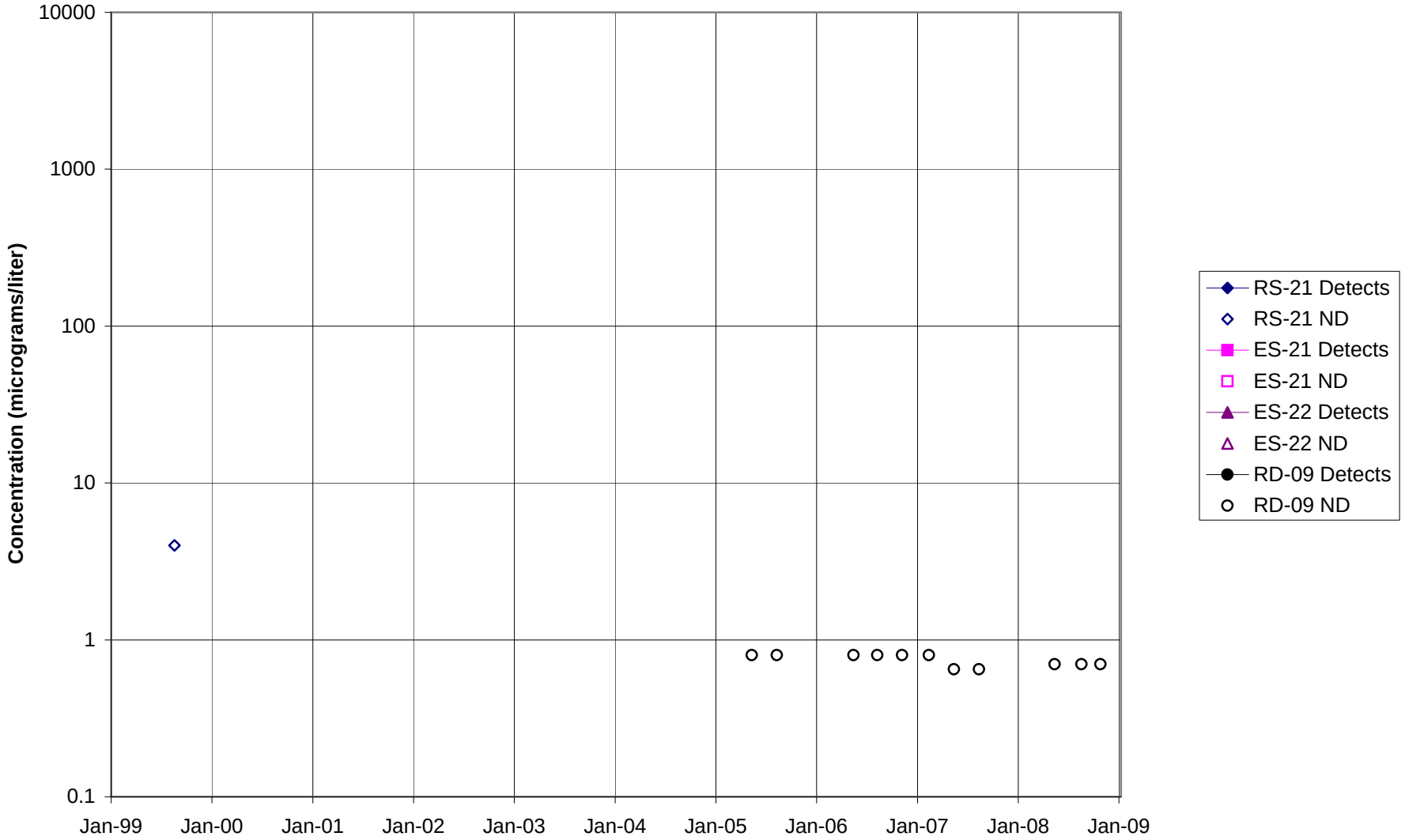
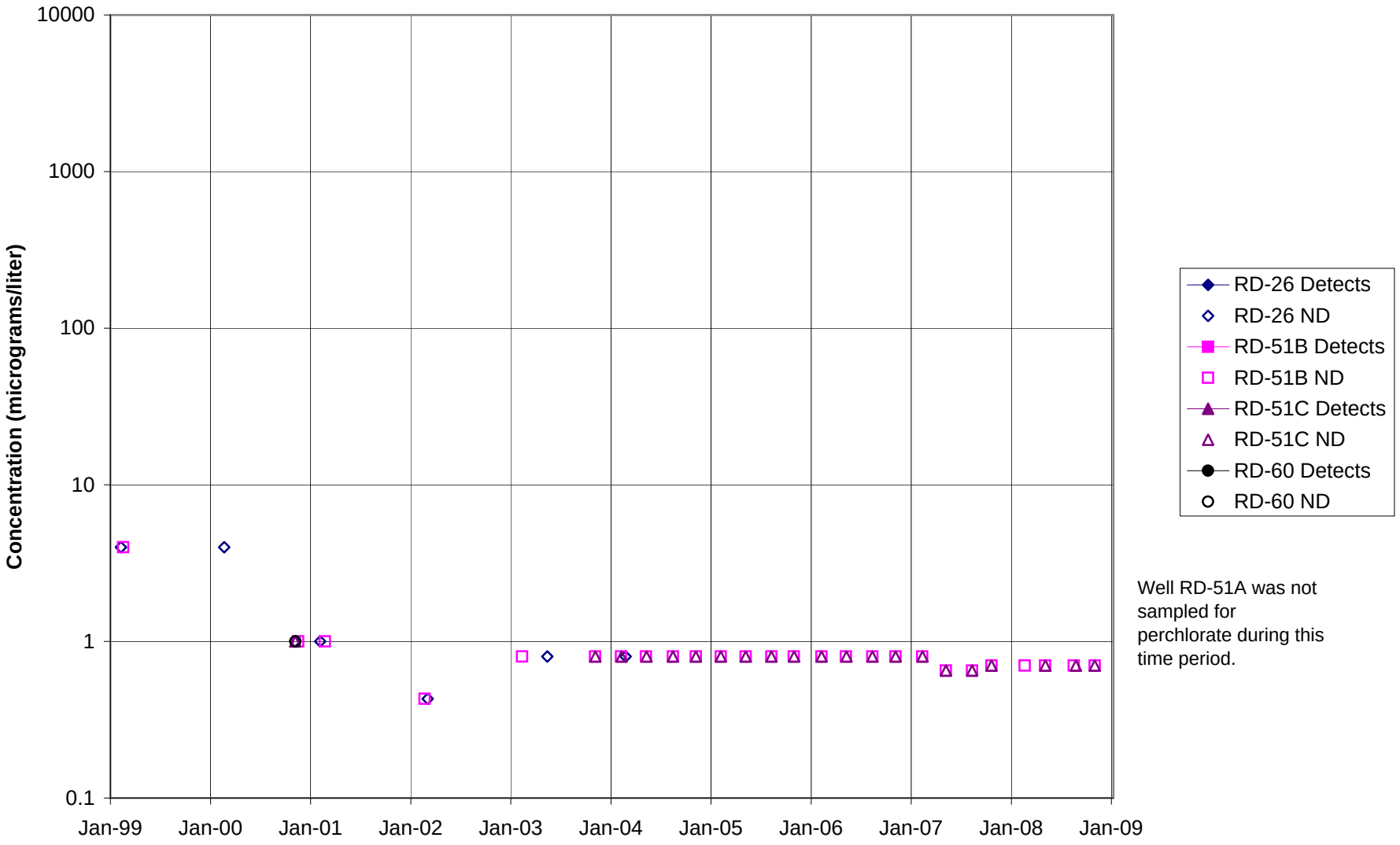


FIGURE F-280. PERCHLORATE in HELIPORT, B/204 AREA WELLS



Well RD-51A was not sampled for perchlorate during this time period.

FIGURE F-281. PERCHLORATE in ALFA / BRAVO AREA WELLS

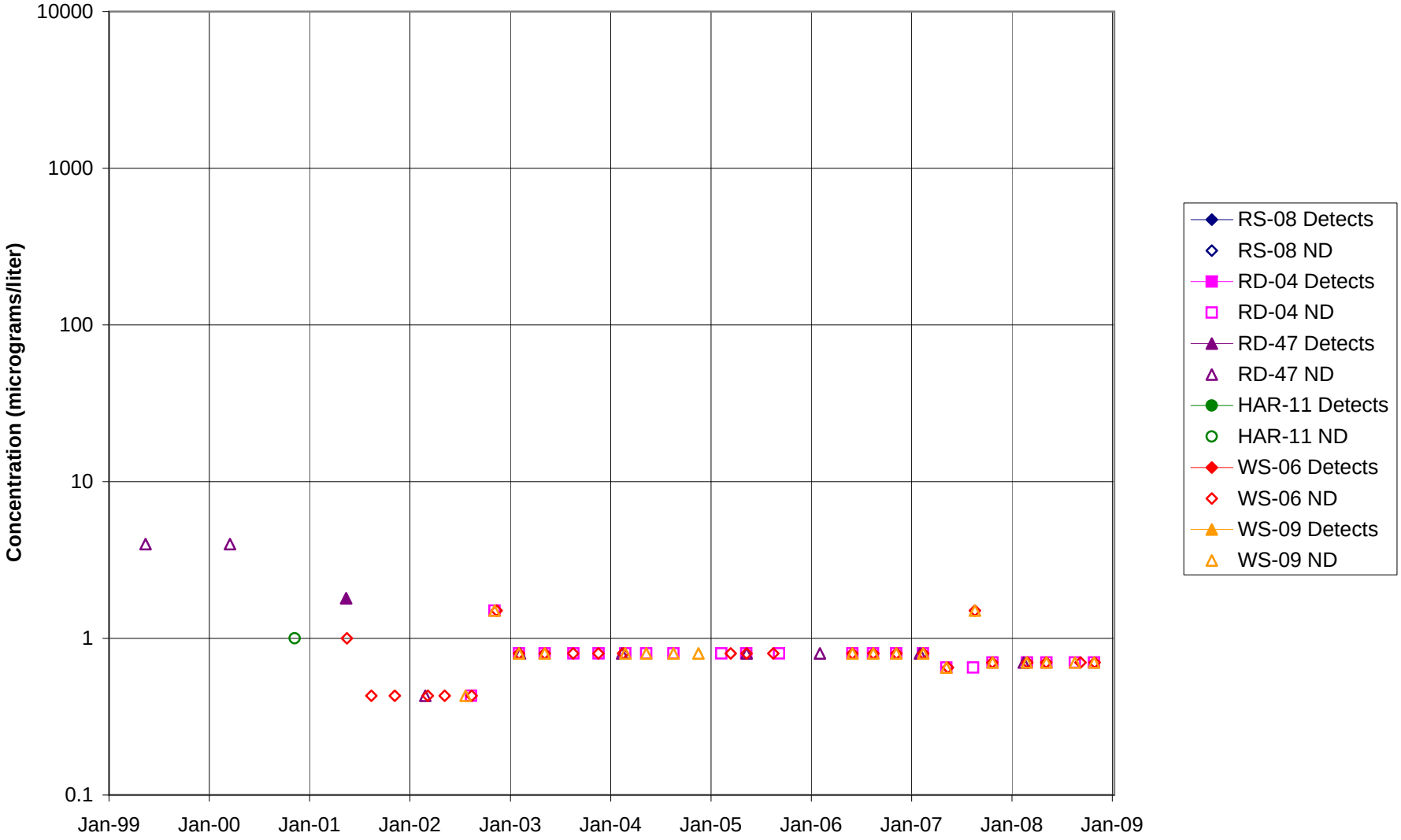


FIGURE F-282. PERCHLORATE in SPA AREA WELLS

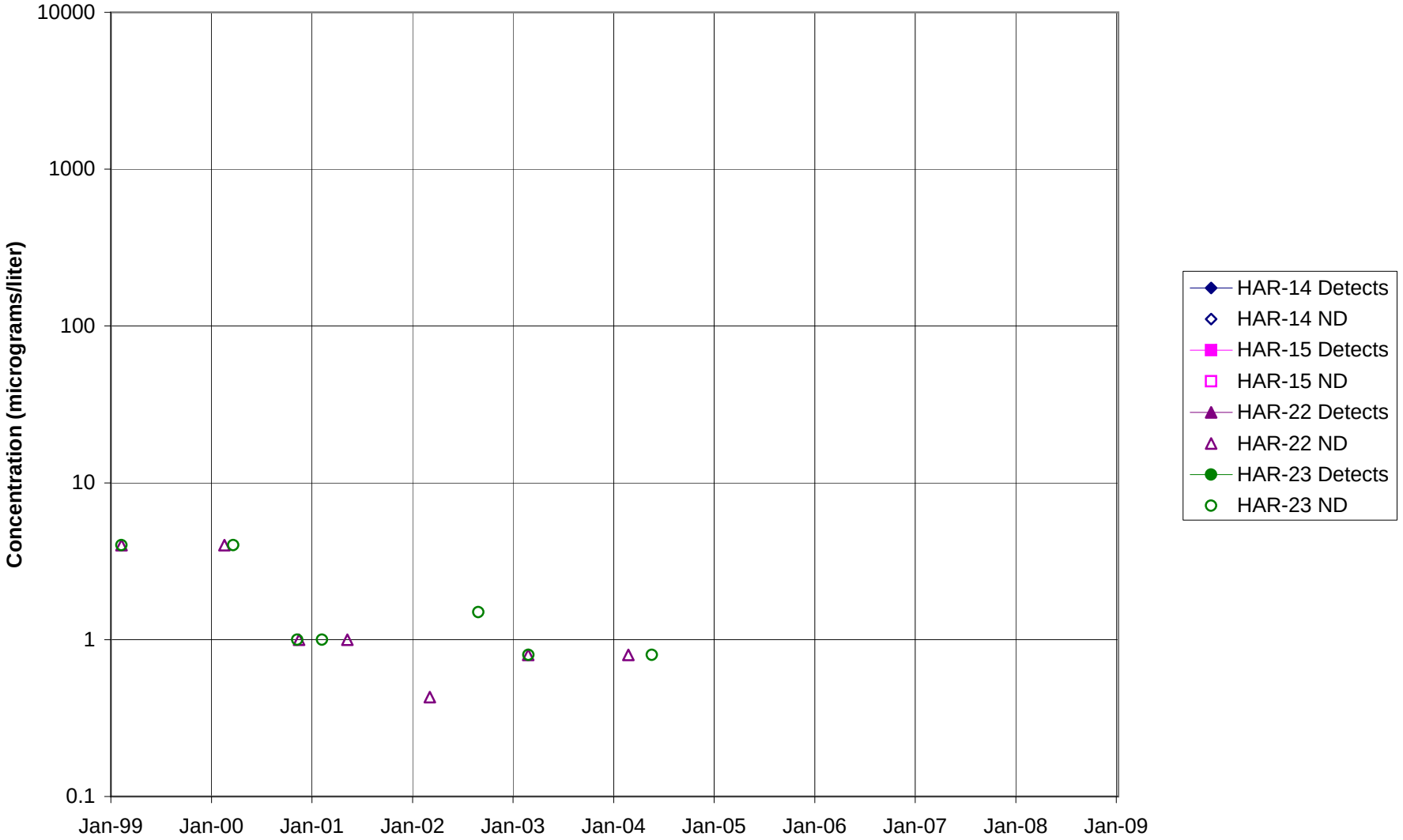


FIGURE F-283. PERCHLORATE in COCA / PLF AREA WELLS

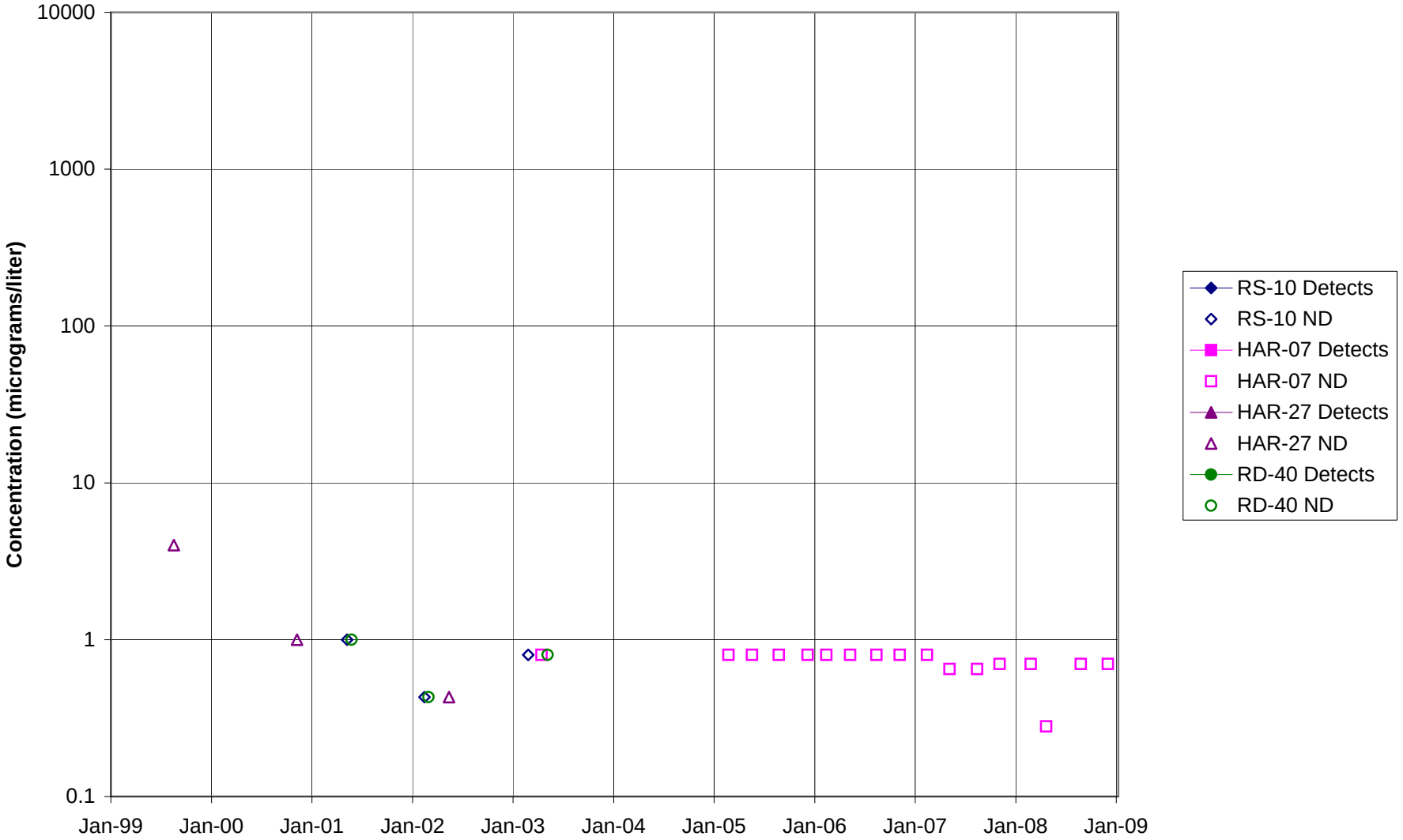


FIGURE F-284. PERCHLORATE in DELTA / BUFFER ZONE AREA WELLS

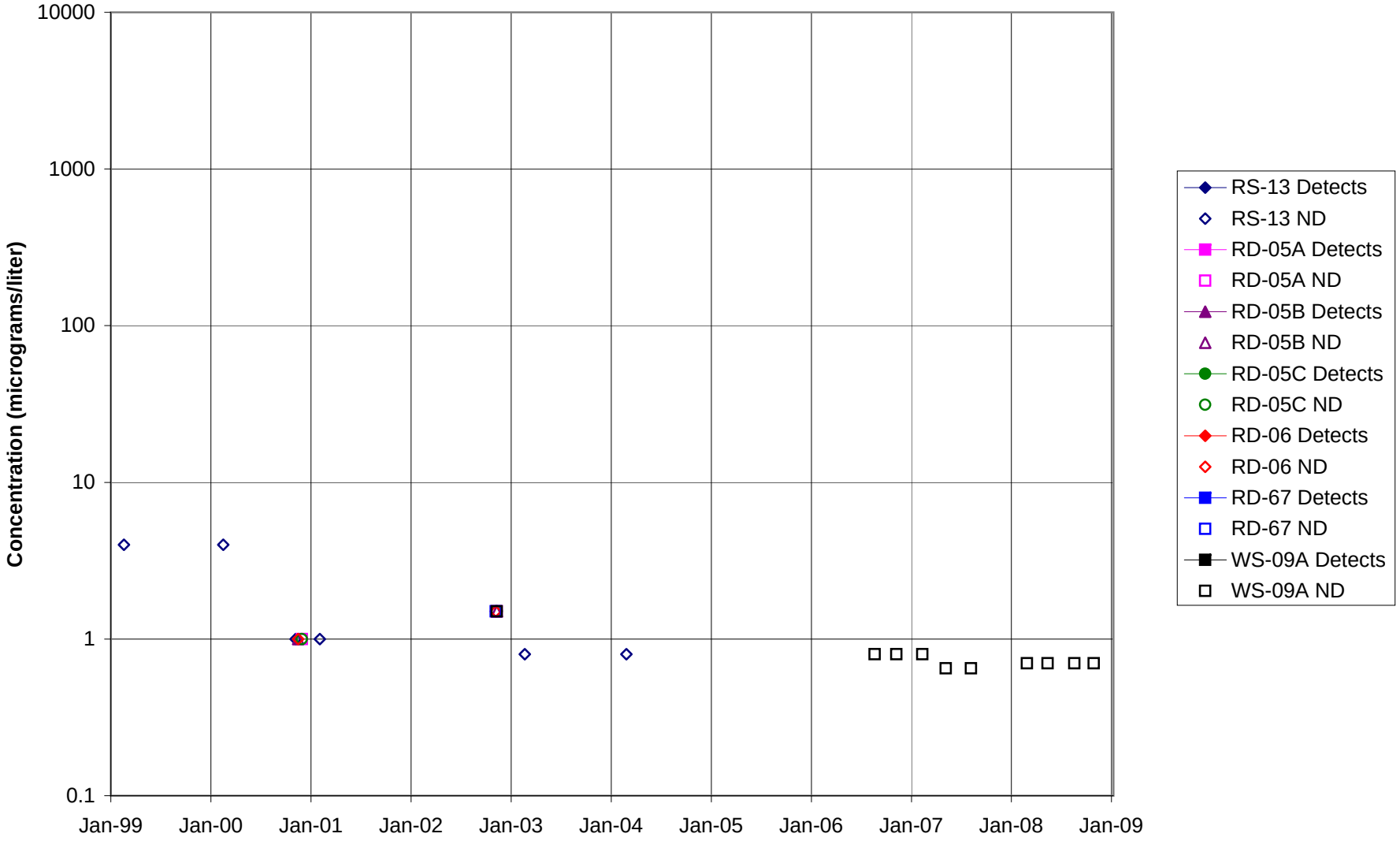


FIGURE F-285. PERCHLORATE in AREA IV WELLS

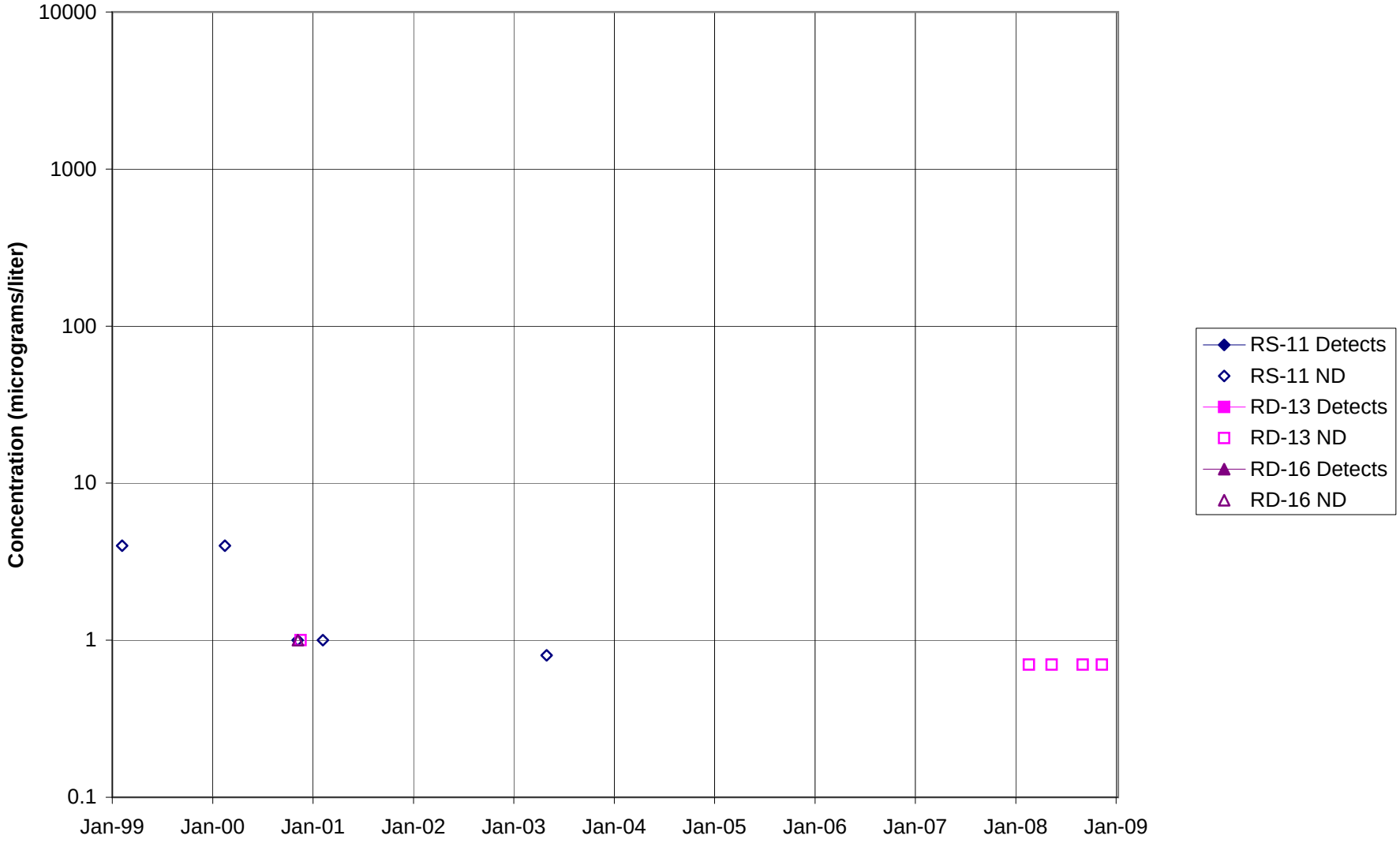


FIGURE F-286. PCE in STL-IV AREA SHALLOW WELLS

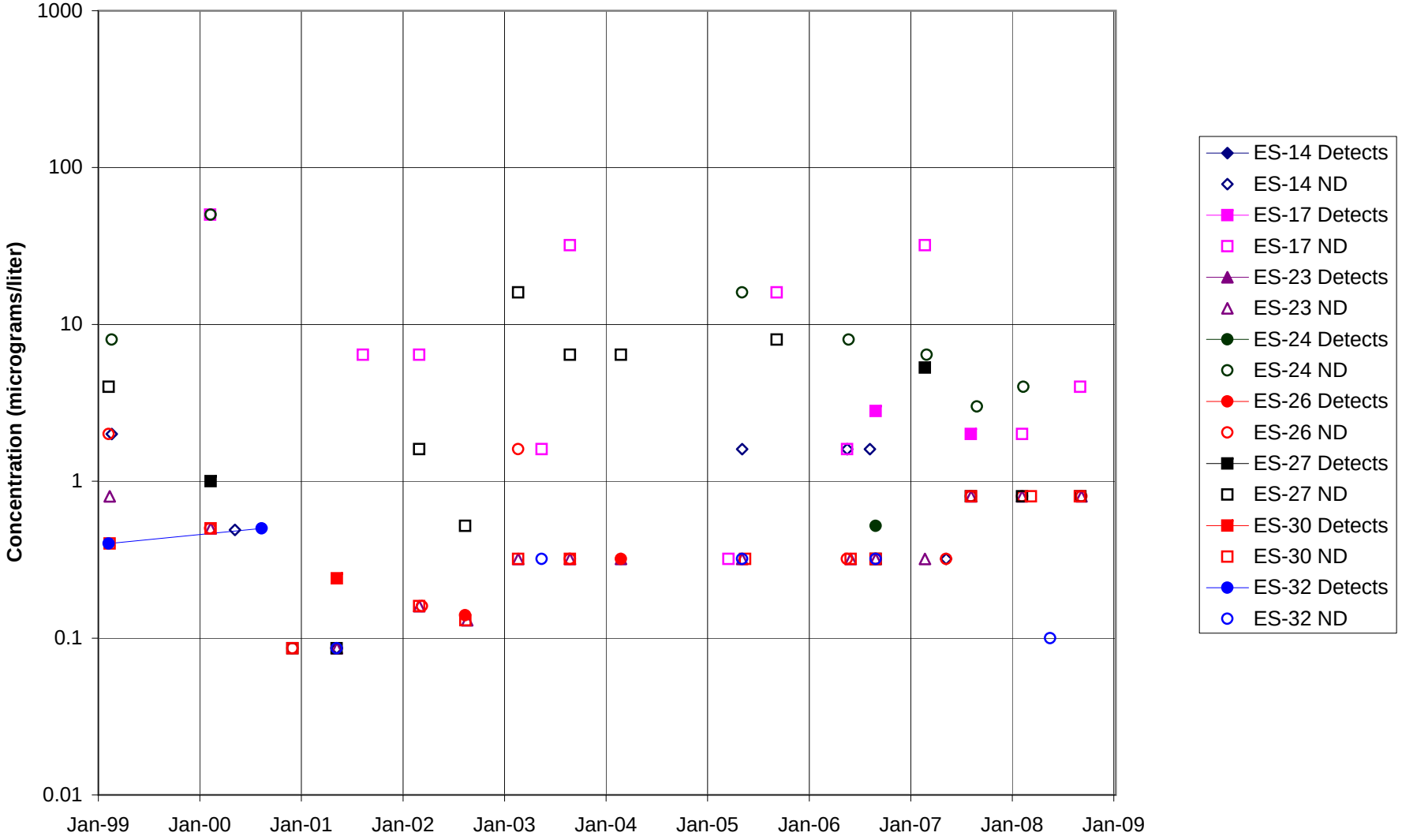


FIGURE F-287. PCE in STL-IV AREA CHATSWORTH FORMATION WELLS

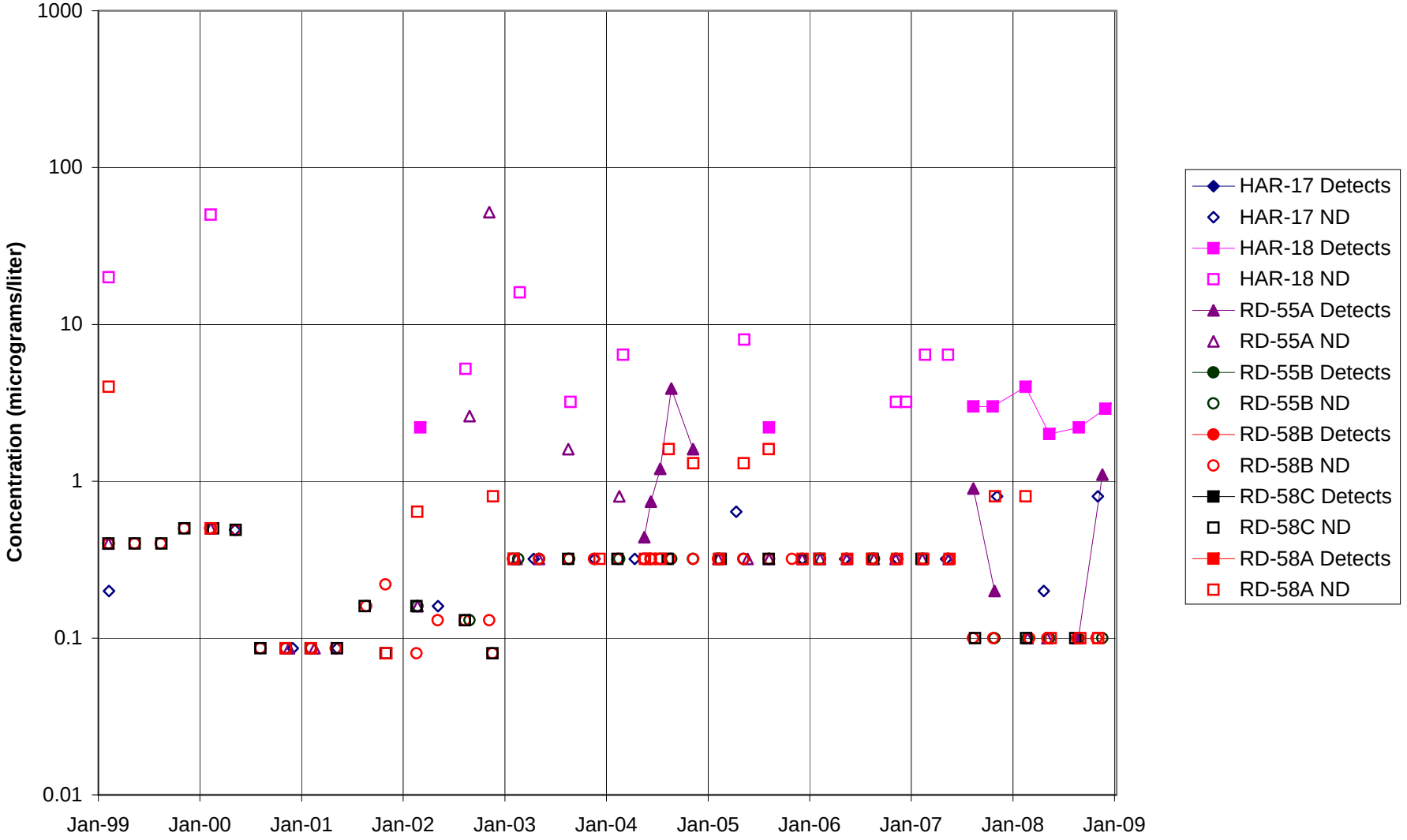


FIGURE F-288. PCE in MAIN GATE AREA WELLS - 1

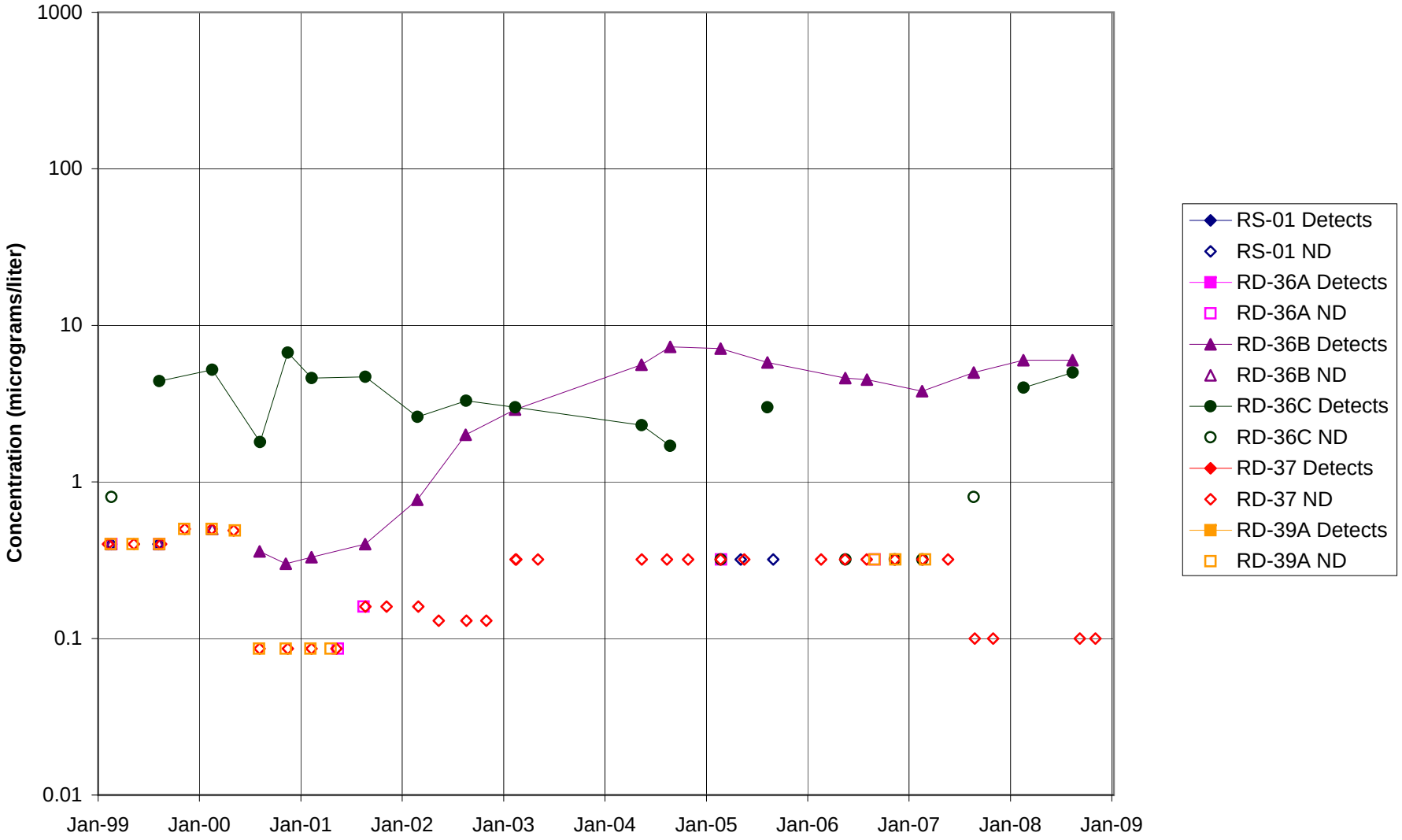


FIGURE F-289. PCE in MAIN GATE AREA WELLS - 2

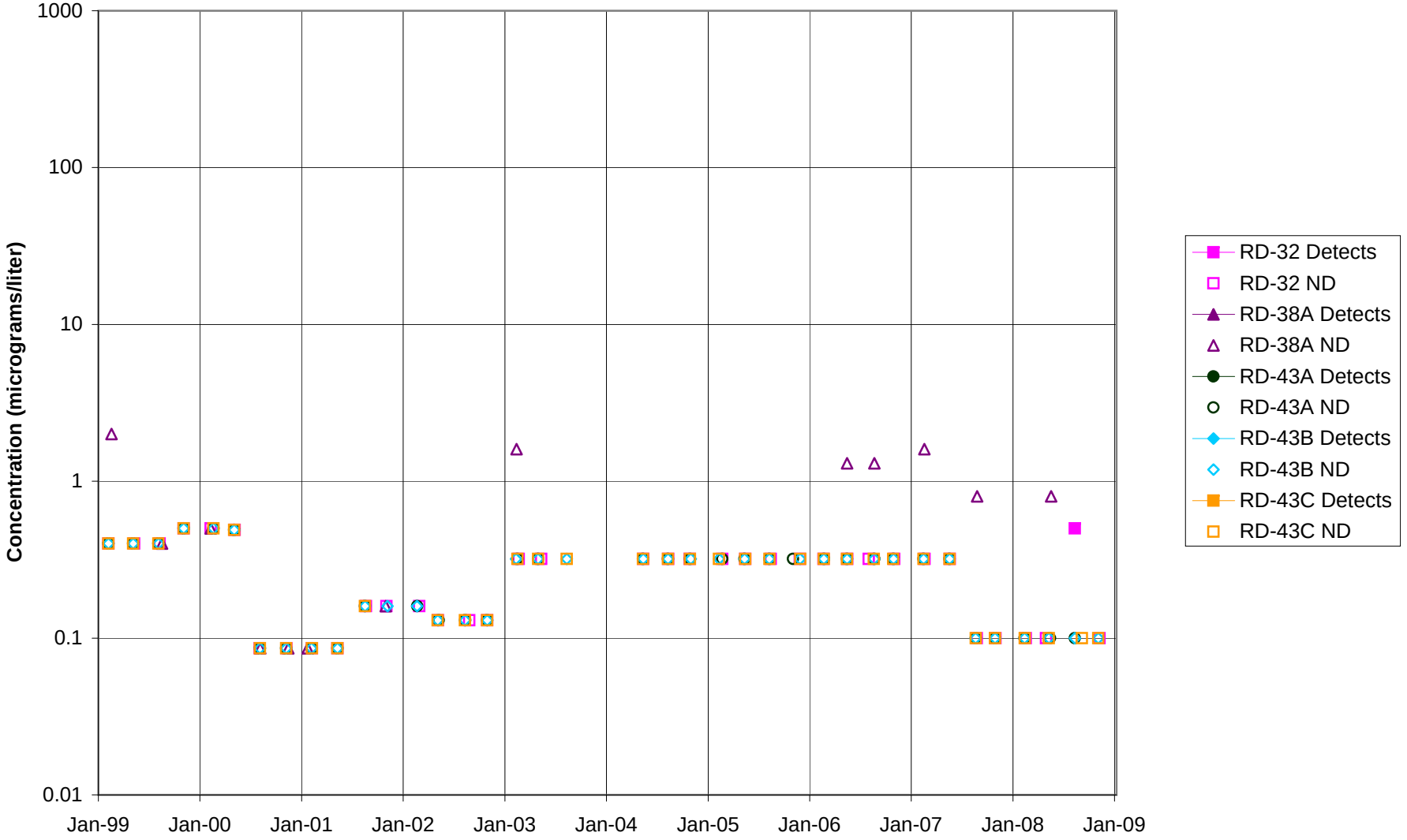


FIGURE F-290. PCE in APTF, CANYON, & HAPPY VALLEY AREA WELLS - 1

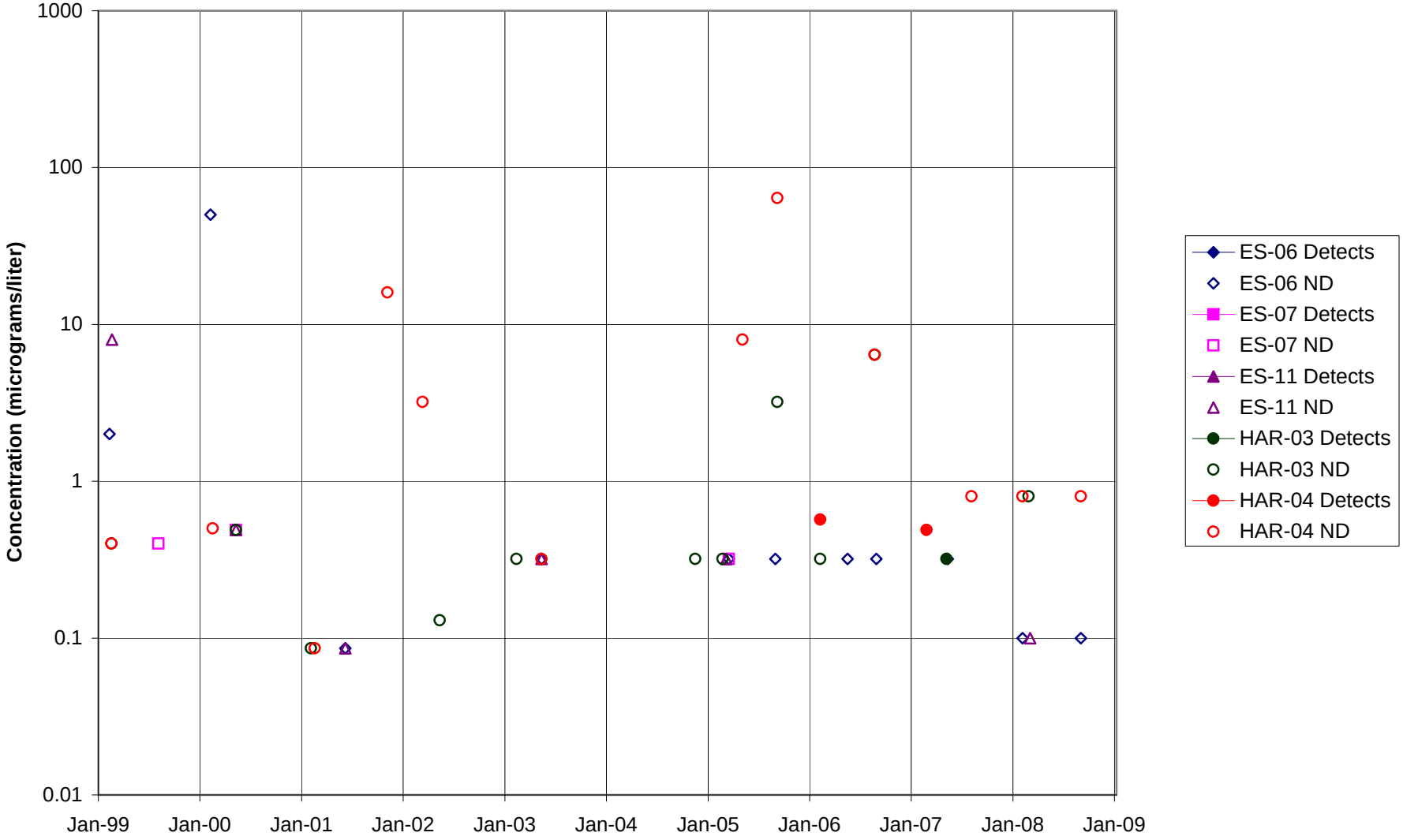


FIGURE F-291. PCE in APTF, CANYON, & HAPPY VALLEY AREA WELLS - 2

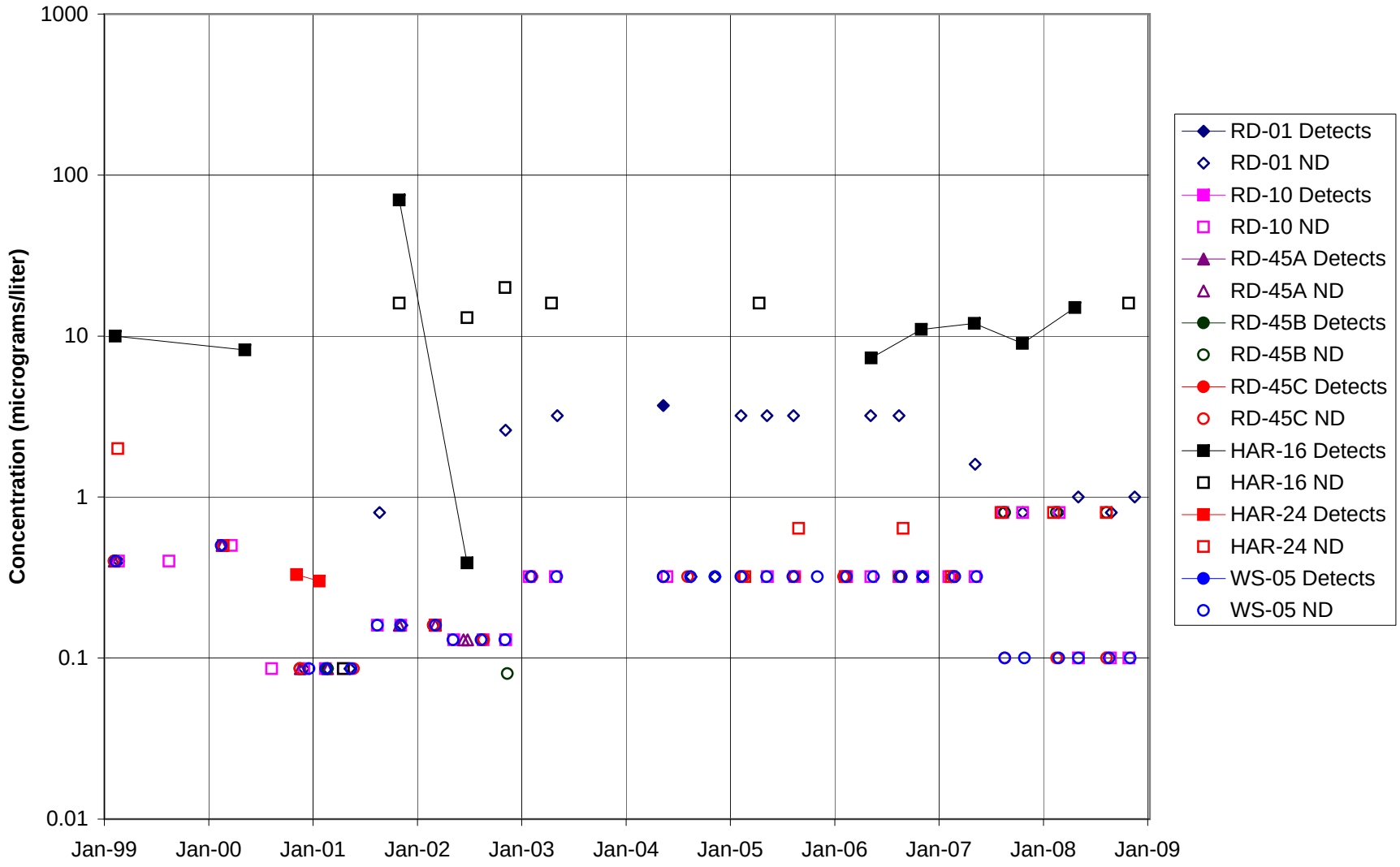


FIGURE F-292. PCE in CTL-III / PERIMETER POND AREA WELLS

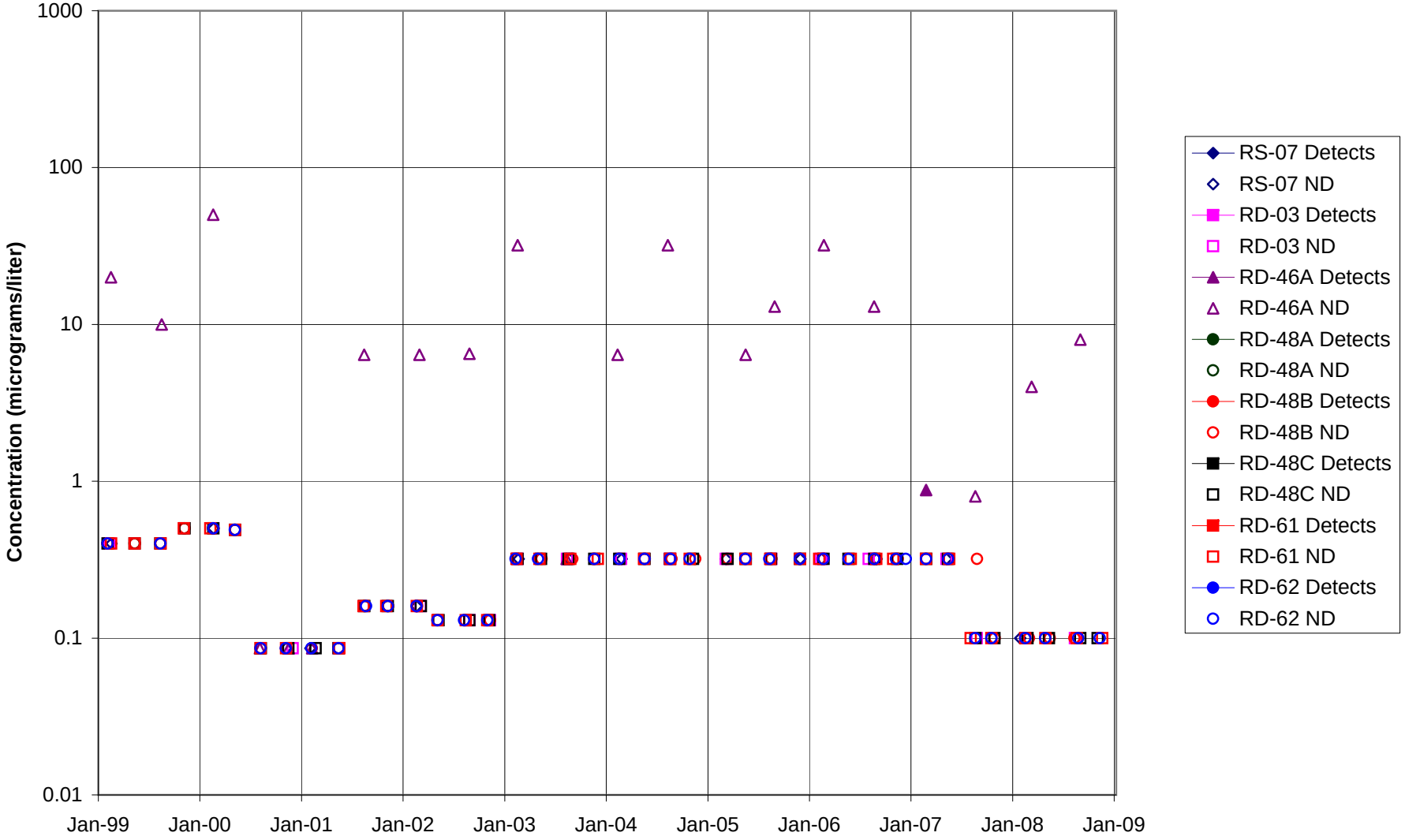


FIGURE F-293. PCE in BOWL AREA WELLS

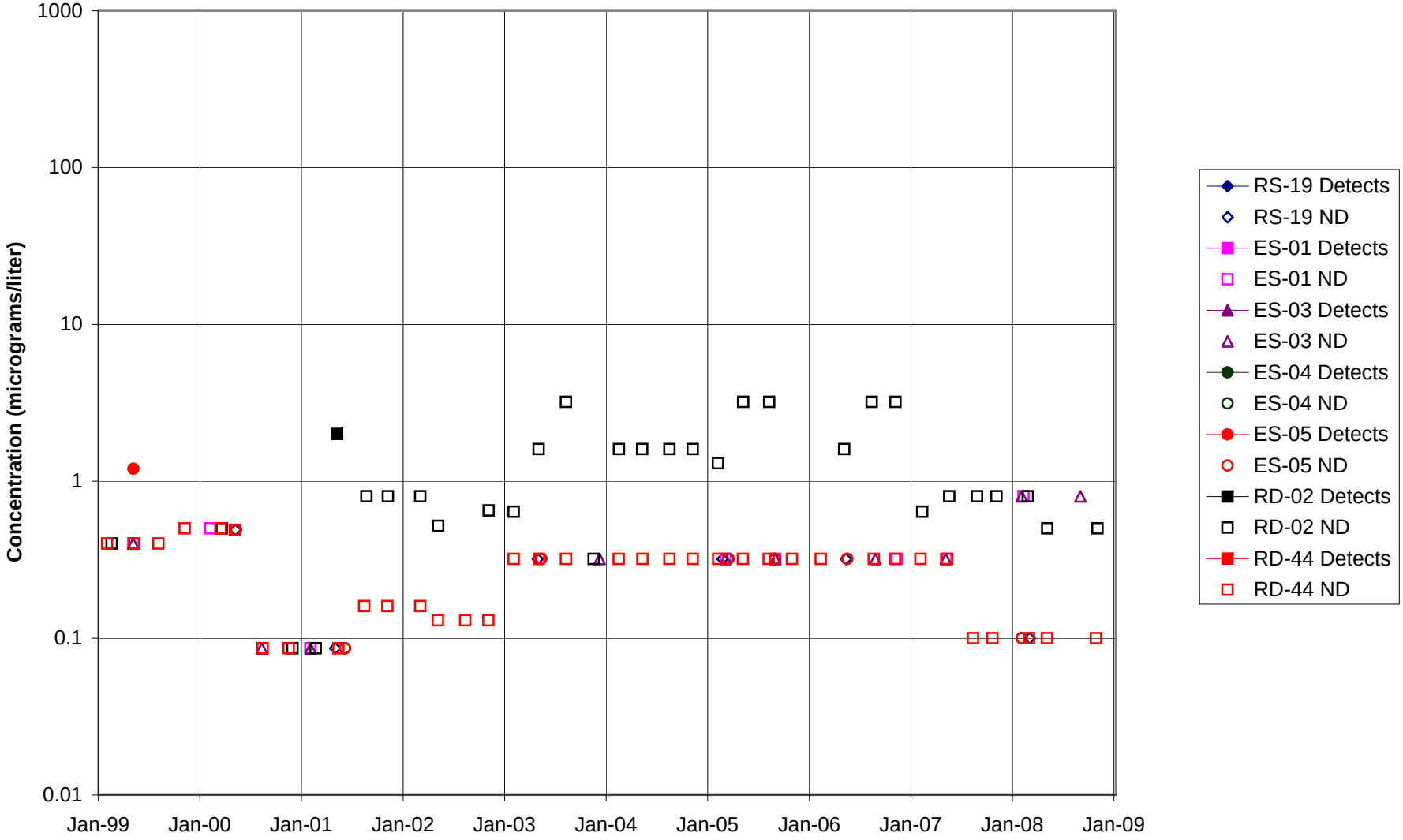


FIGURE F-294. PCE in ECL AREA WELLS

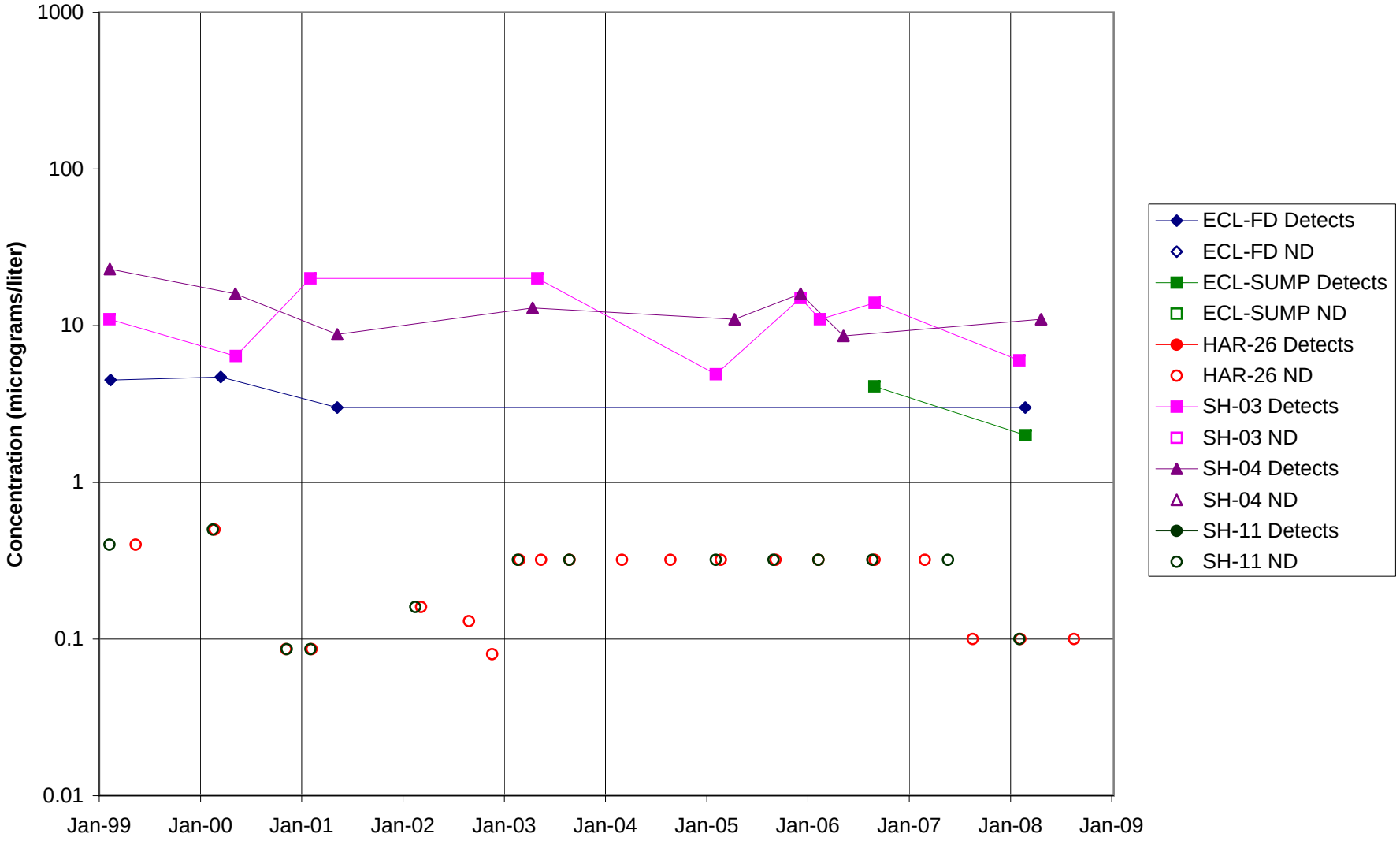


FIGURE F-295. PCE in FORMER LOX PLANT AREA WELLS

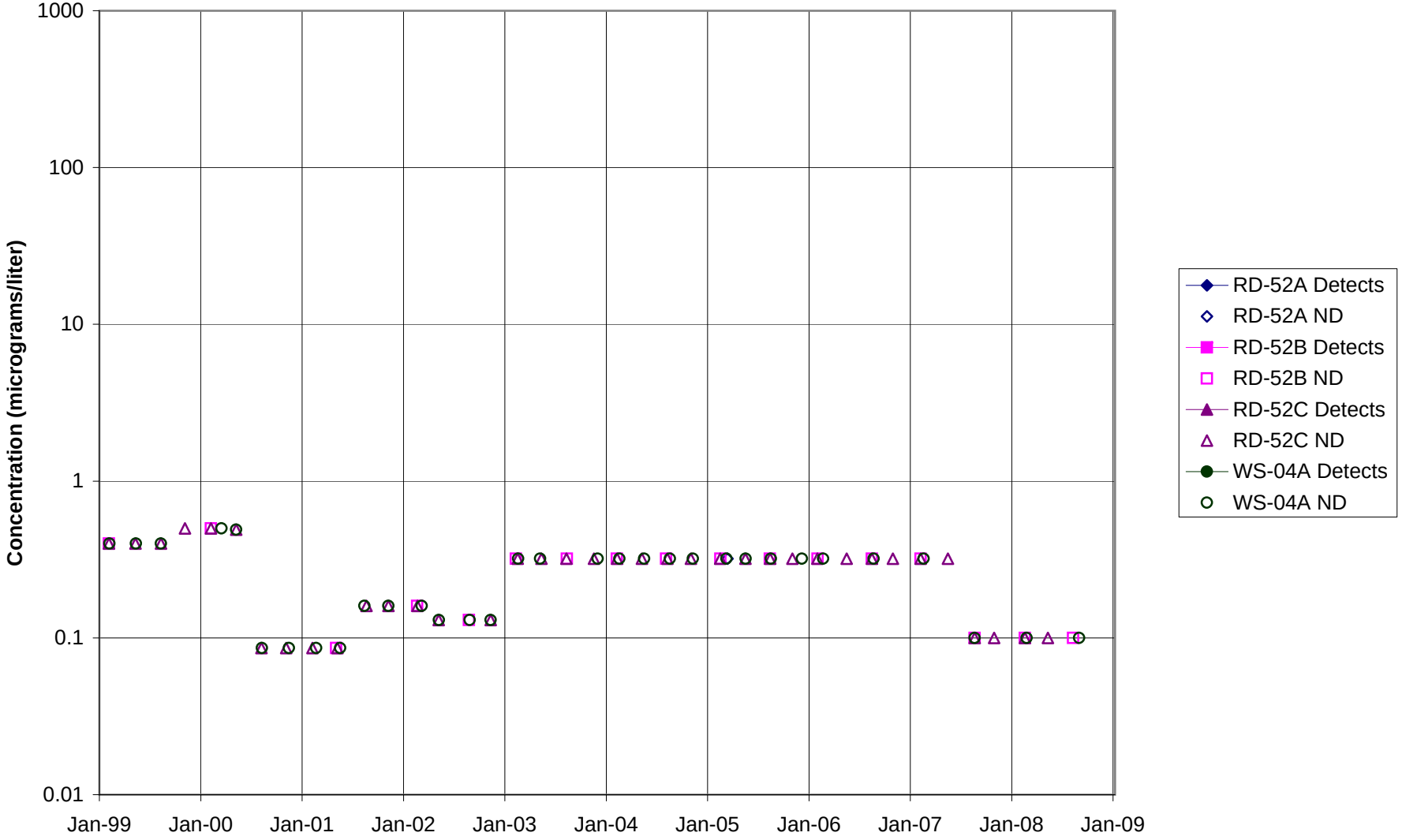


FIGURE F-296. PCE in RD-09 AREA WELLS

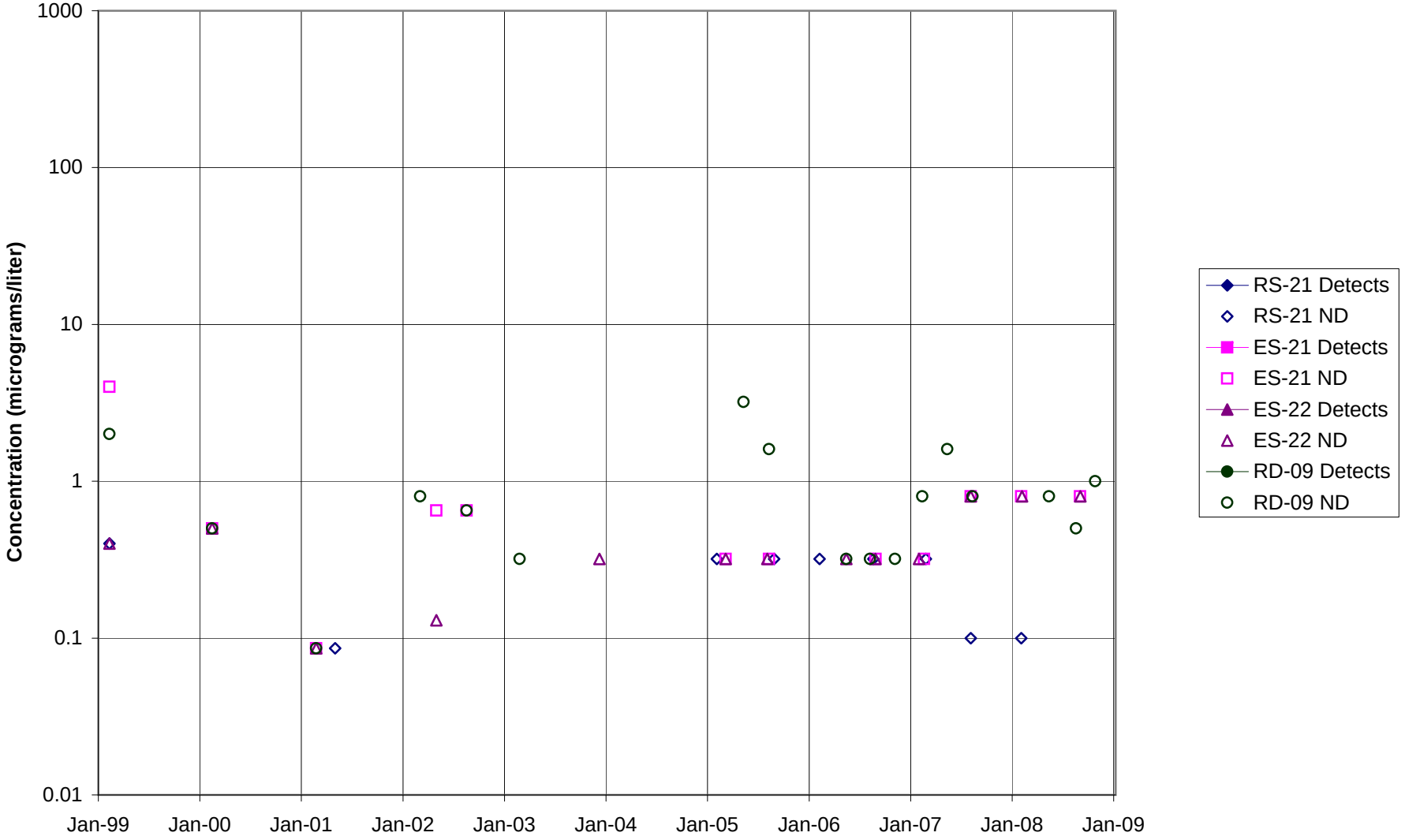


FIGURE F-297. PCE in HELIPORT, B/204 AREA WELLS

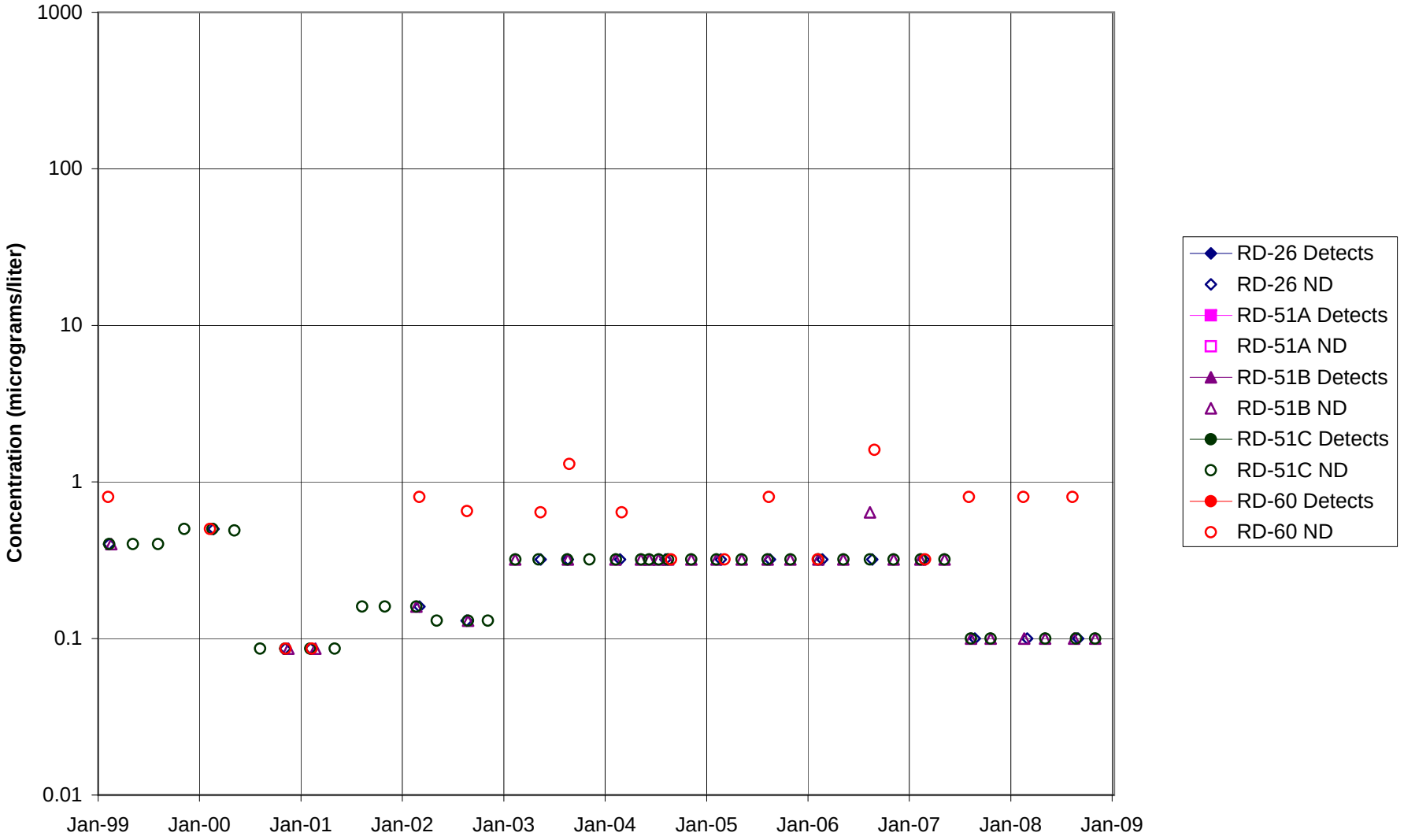


FIGURE F-298. PCE in ALFA / BRAVO AREA WELLS

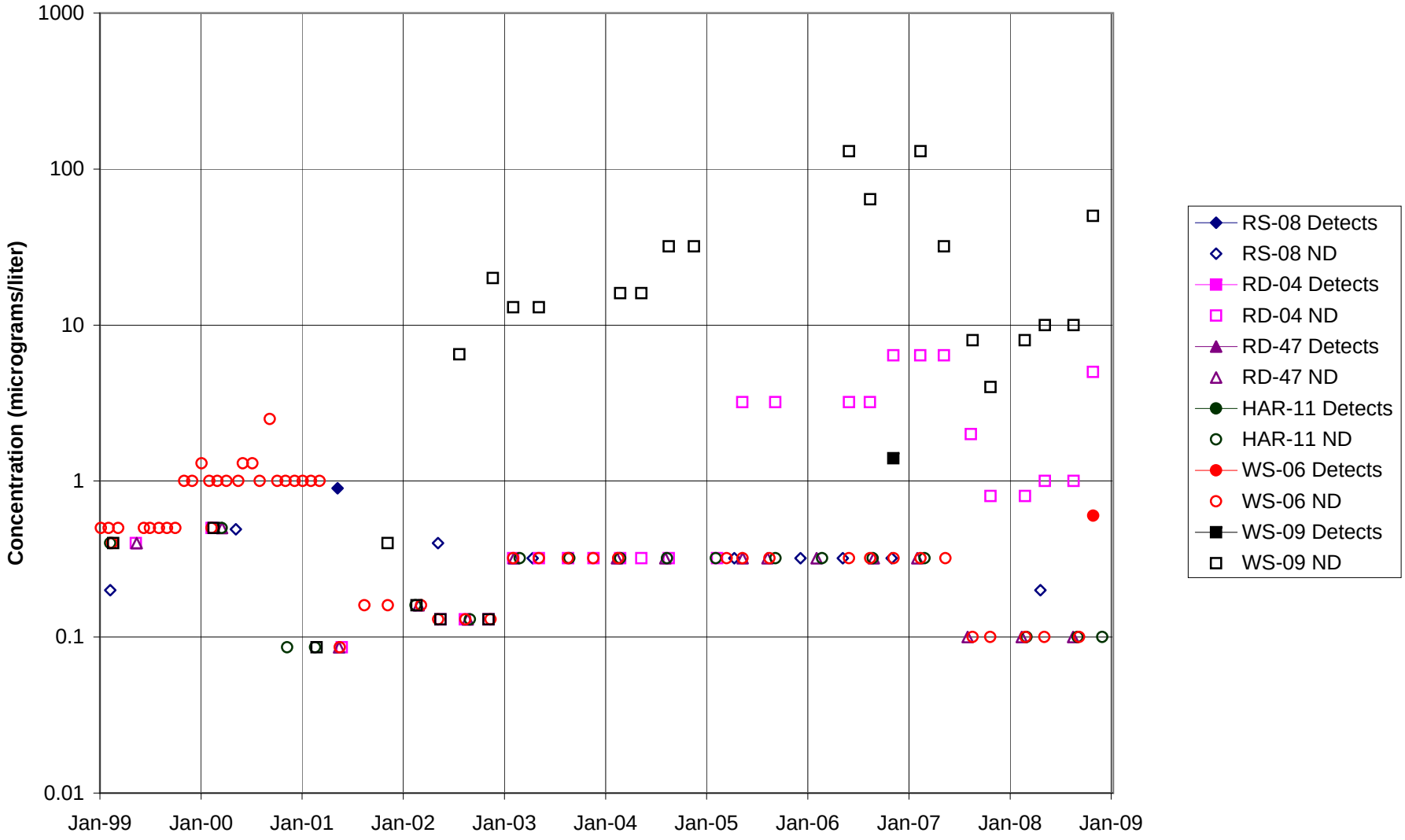


FIGURE F-299. PCE in SPA AREA WELLS

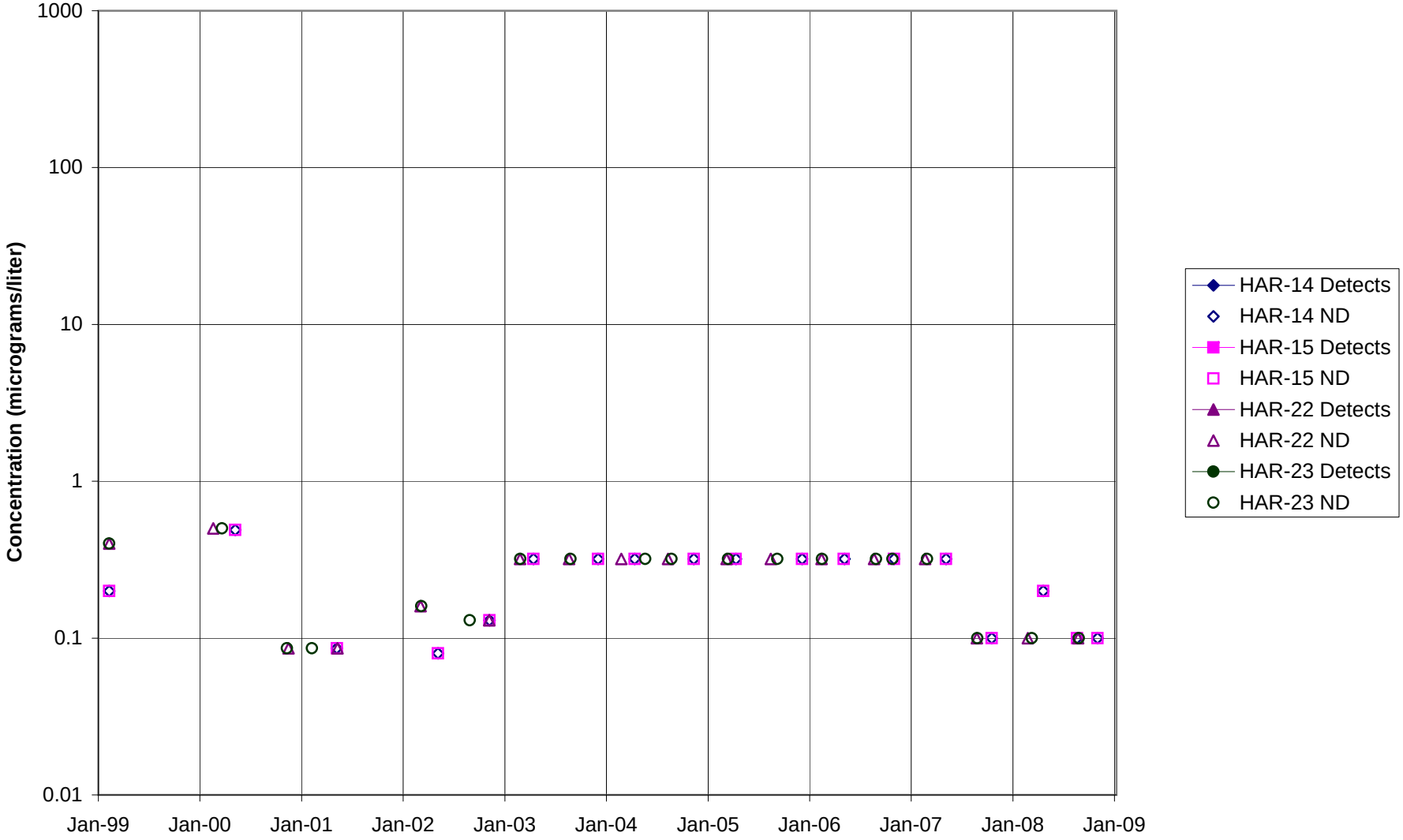


FIGURE F-300. PCE in COCA / PLF AREA WELLS

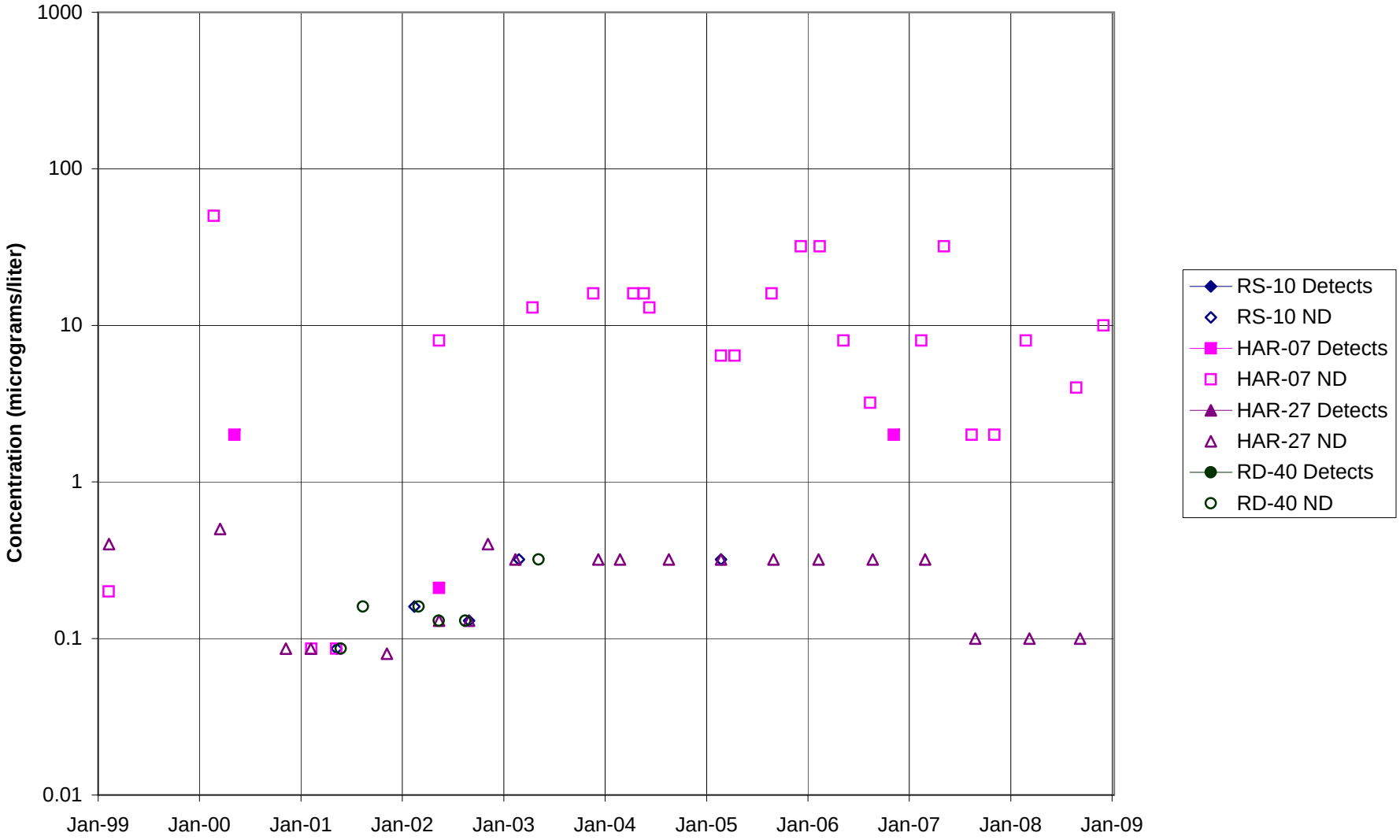


FIGURE F-301. PCE in DELTA / BUFFER ZONE AREA WELLS

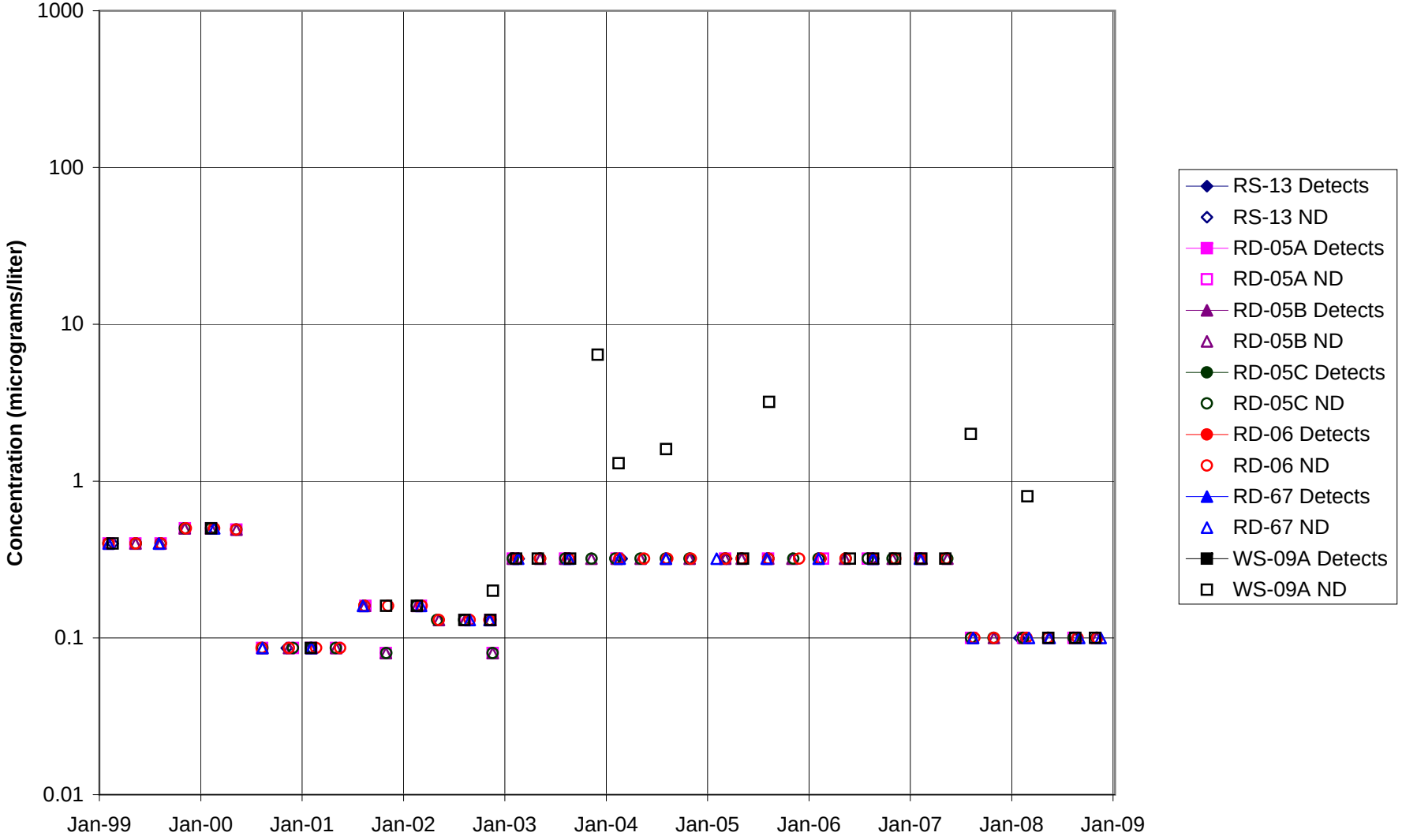


FIGURE F-302. PCE in AREA IV WELLS

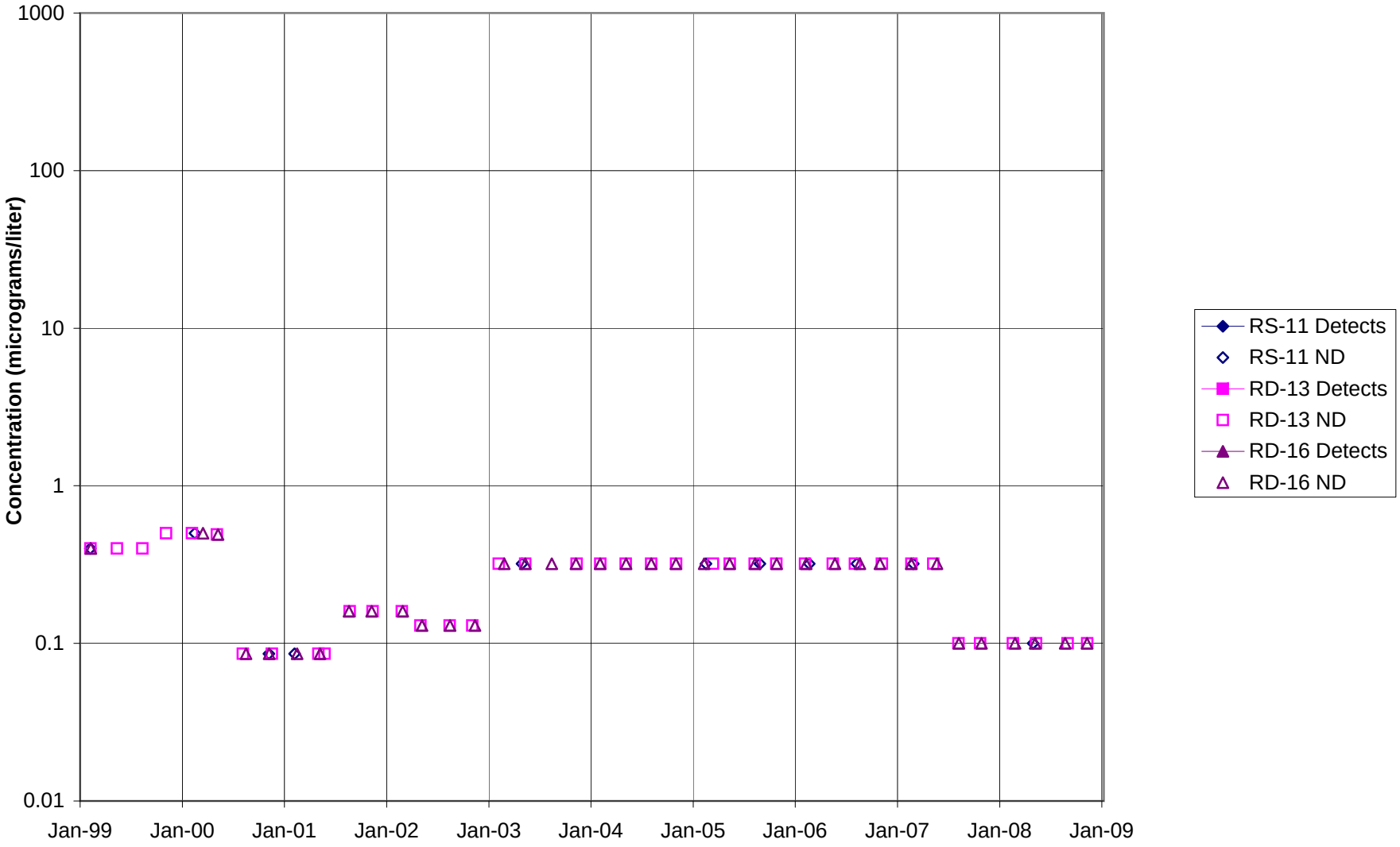


FIGURE F-303. TOLUENE in STL-IV AREA SHALLOW WELLS

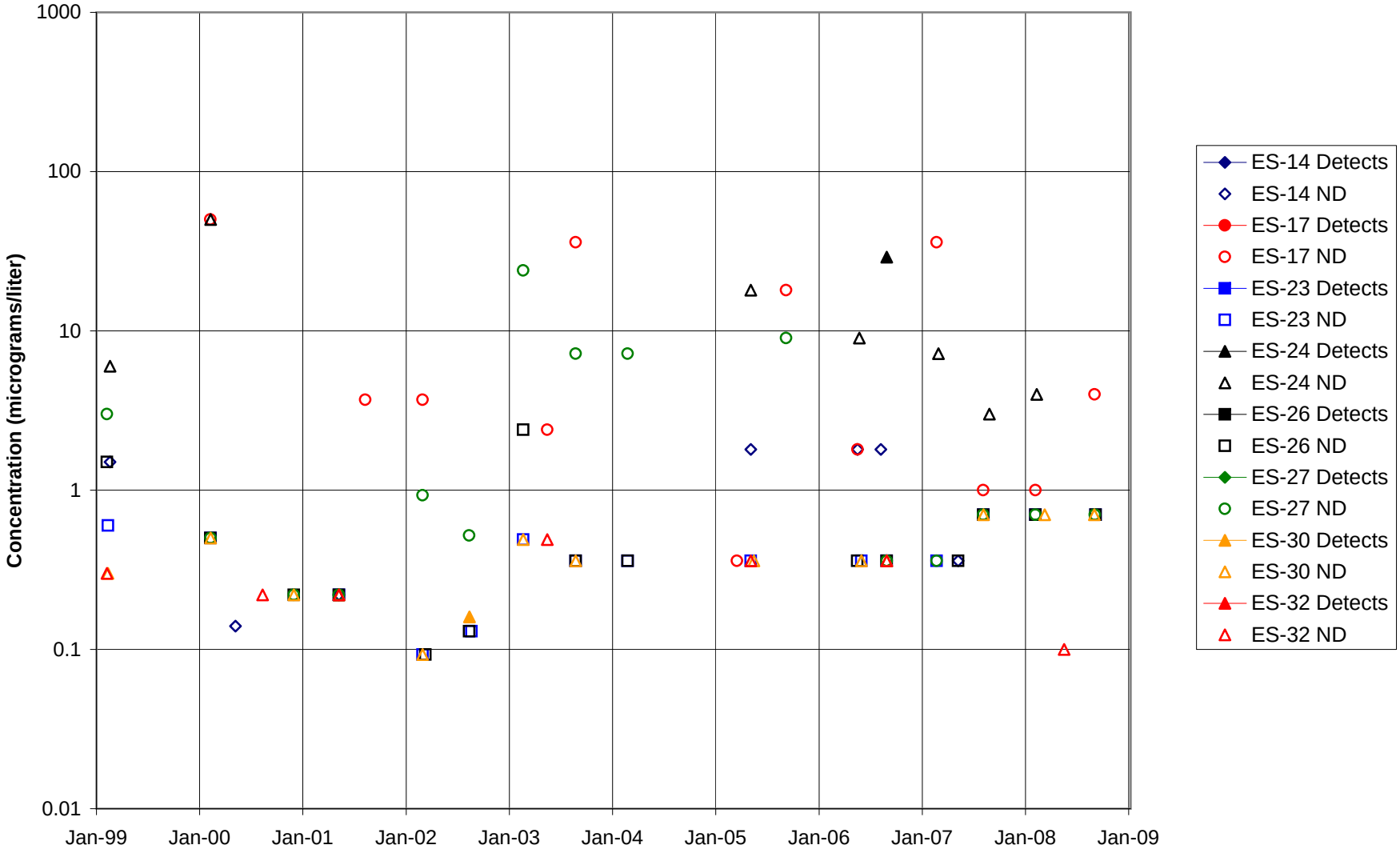


FIGURE F-304. TOLUENE in STL-IV AREA CHATSWORTH FORMATION WELLS

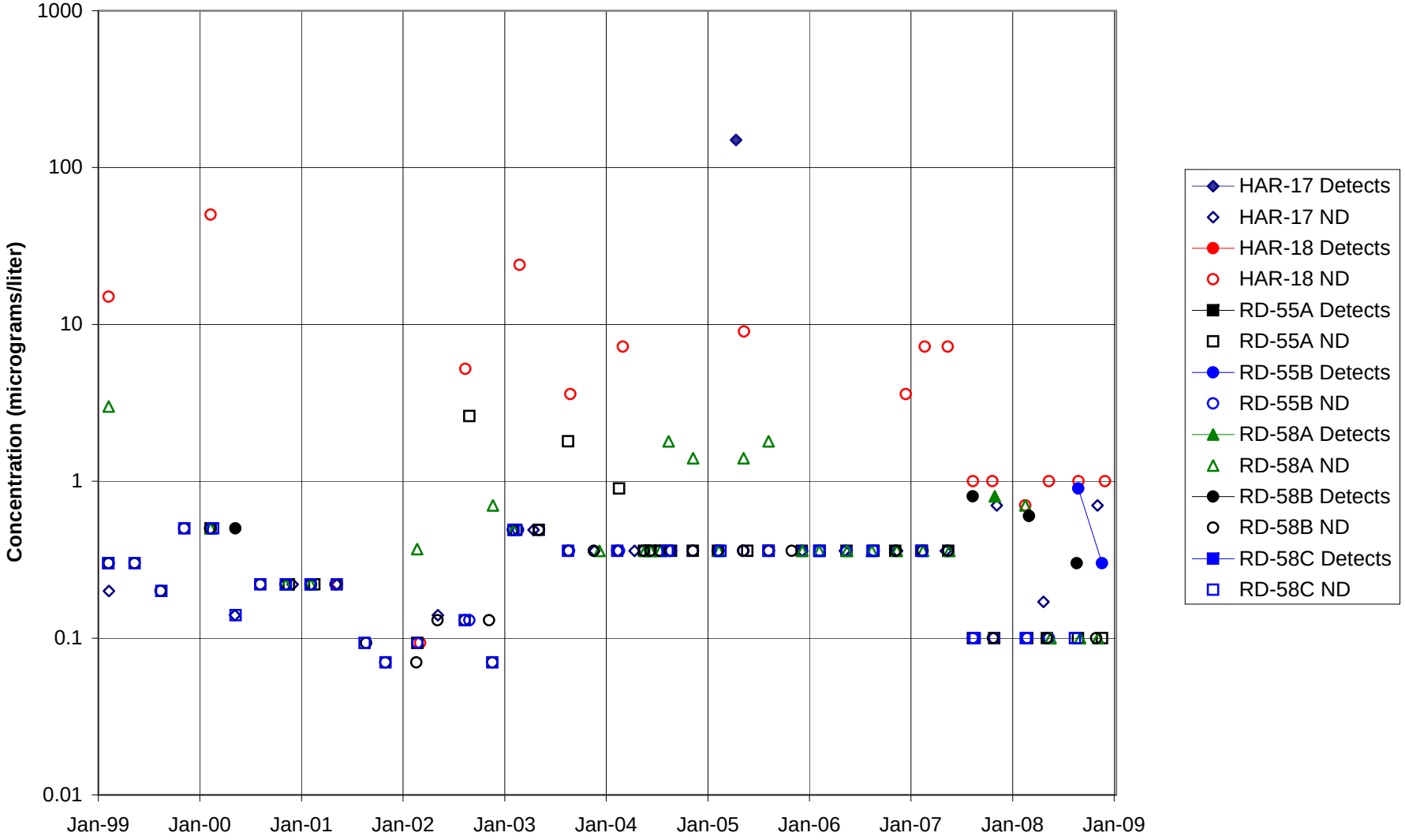


FIGURE F-305. TOLUENE in MAIN GATE AREA WELLS - 1

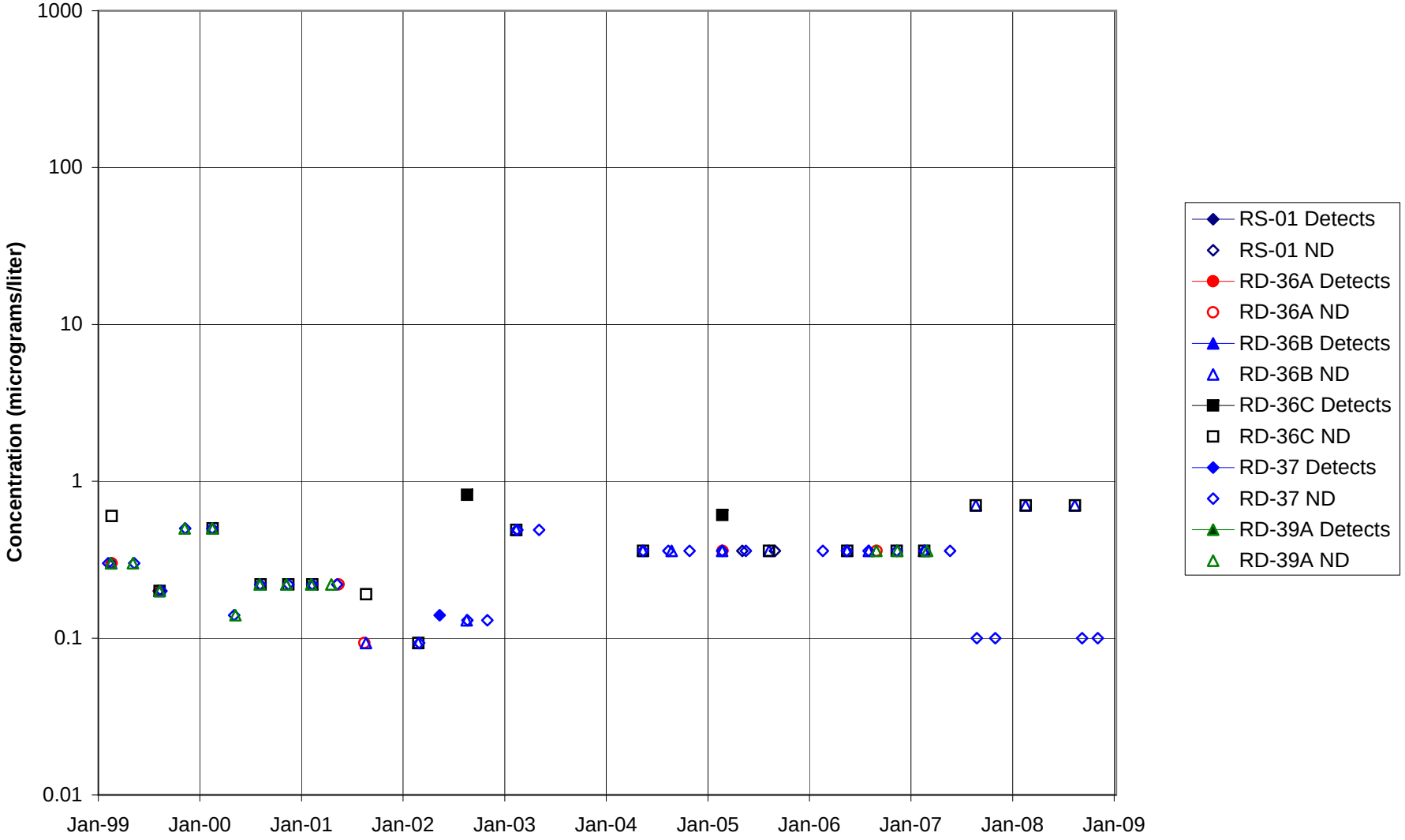


FIGURE F-306. TOLUENE in MAIN GATE AREA WELLS - 2

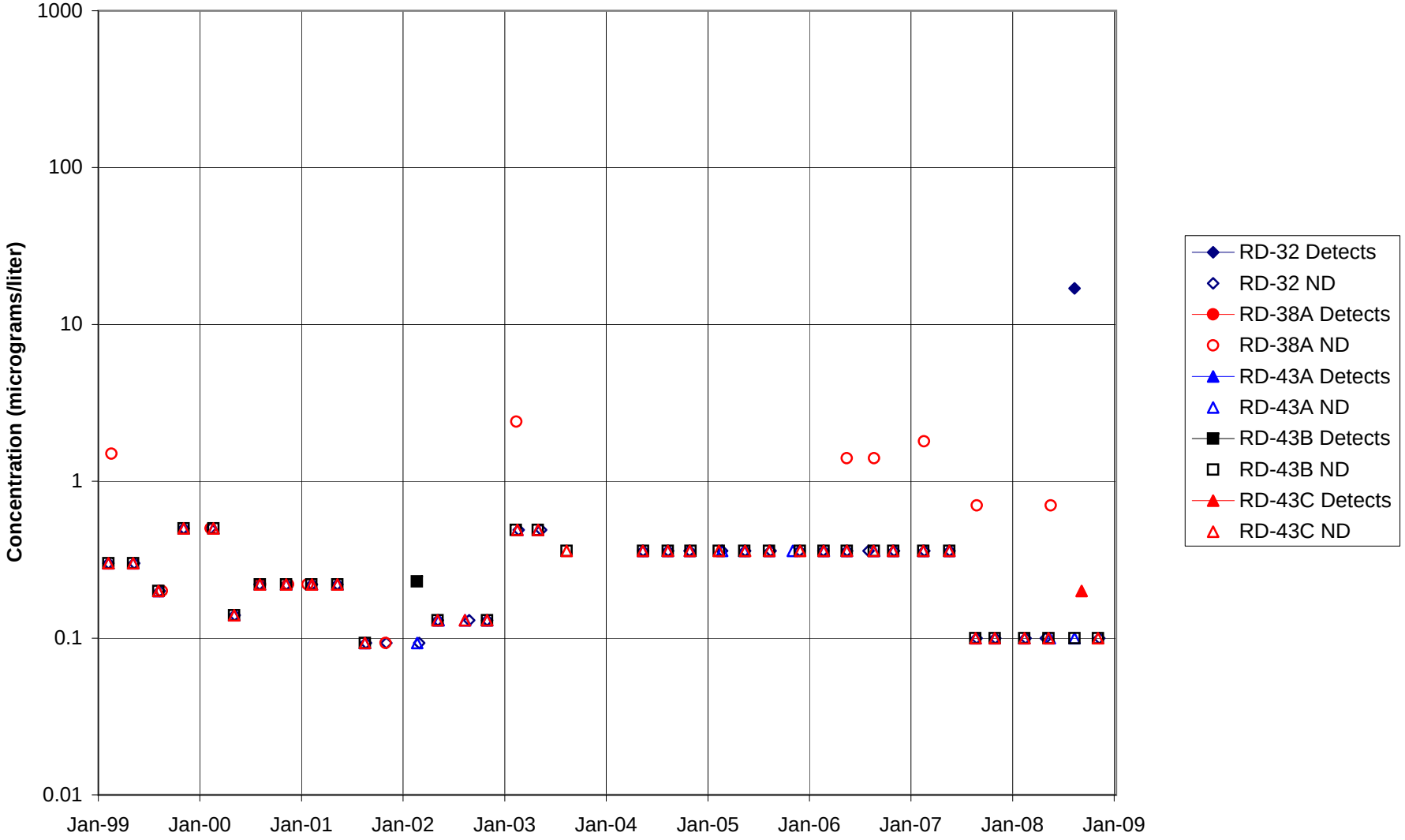


FIGURE F-307. TOLUENE in APTF, CANYON, & HAPPY VALLEY WELLS - 1

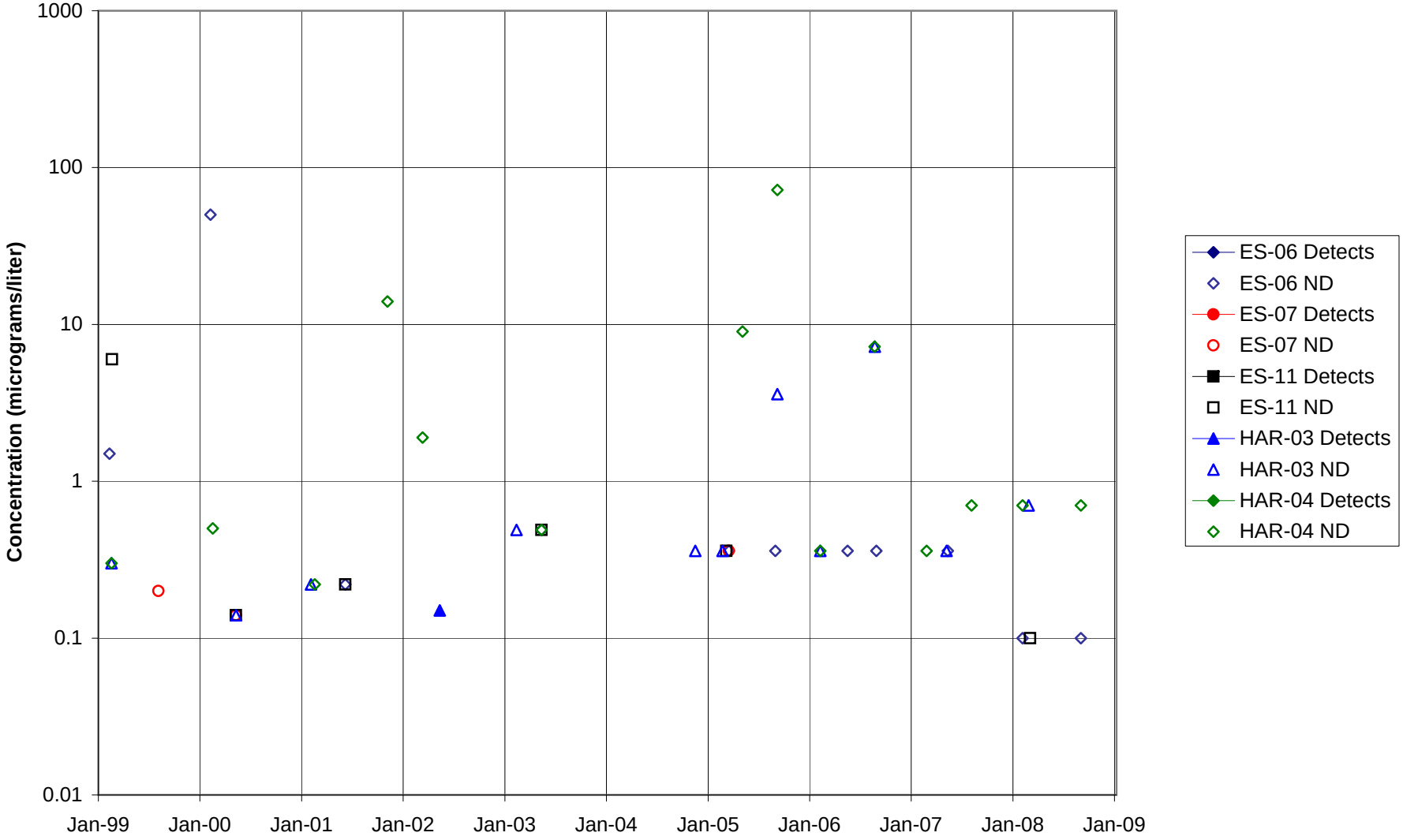


FIGURE F-308. TOLUENE in APTF, CANYON, & HAPPY VALLEY WELLS - 2

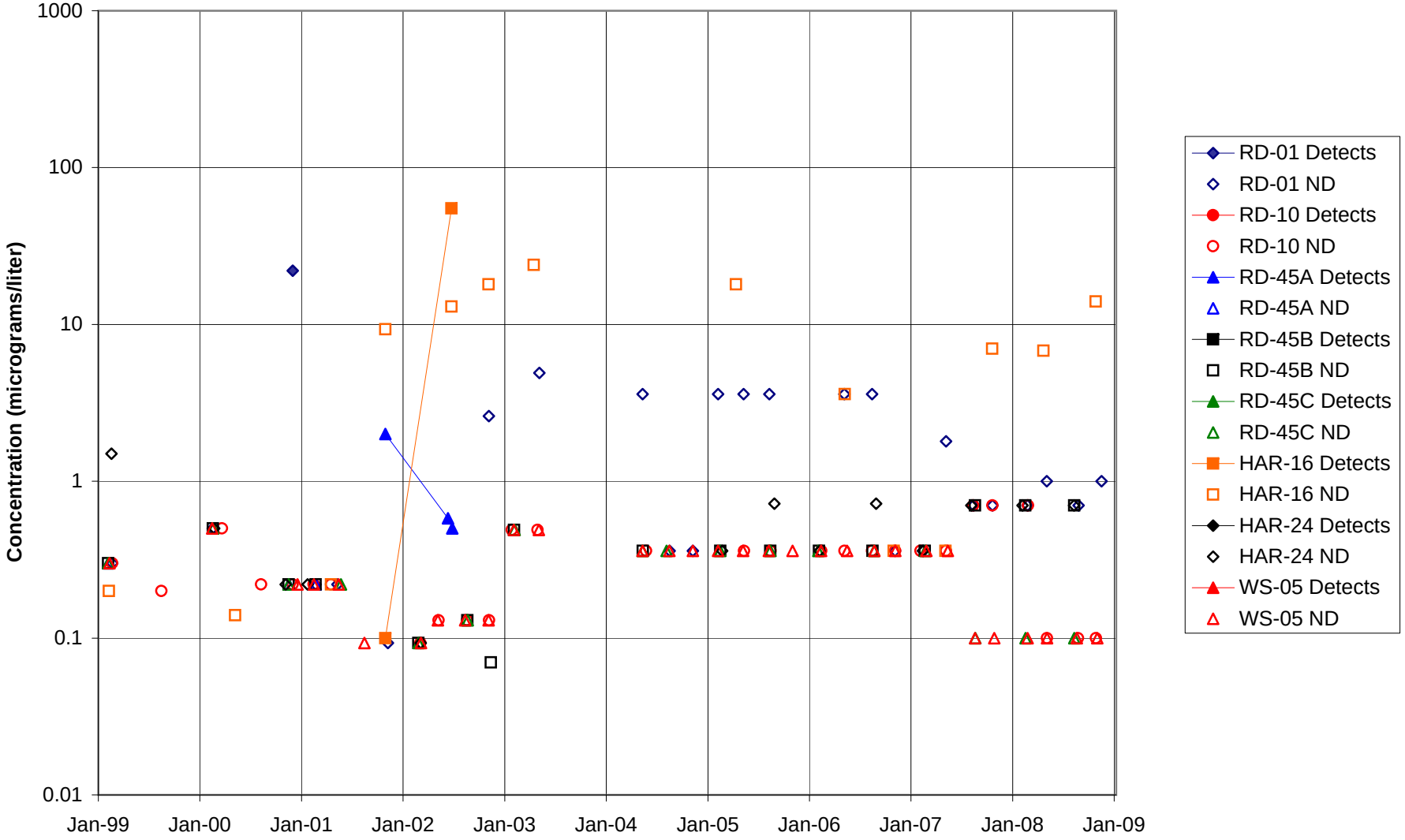


FIGURE F-309. TOLUENE in CTL-III / PERIMETER POND AREA WELLS

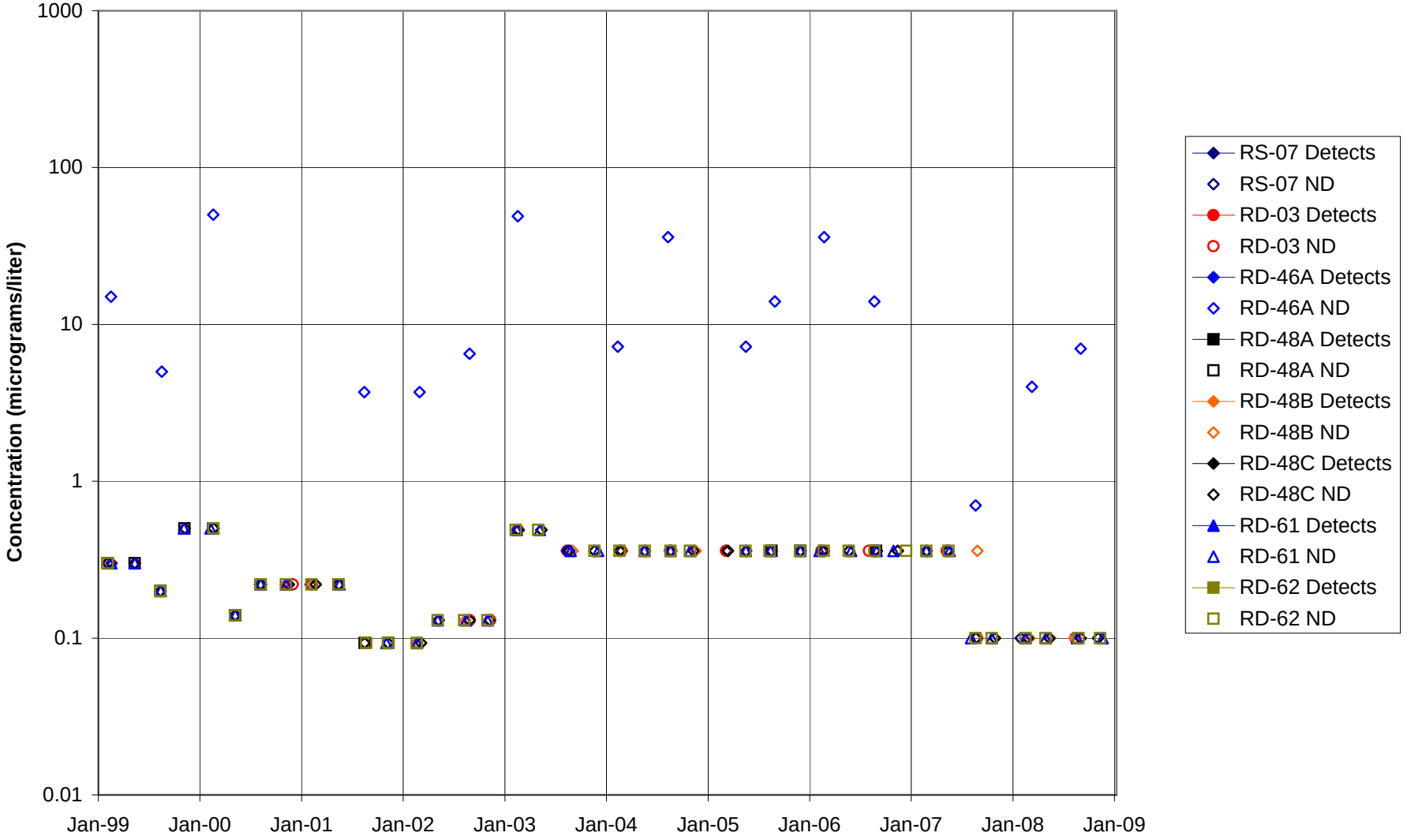


FIGURE F-310. TOLUENE in BOWL AREA WELLS

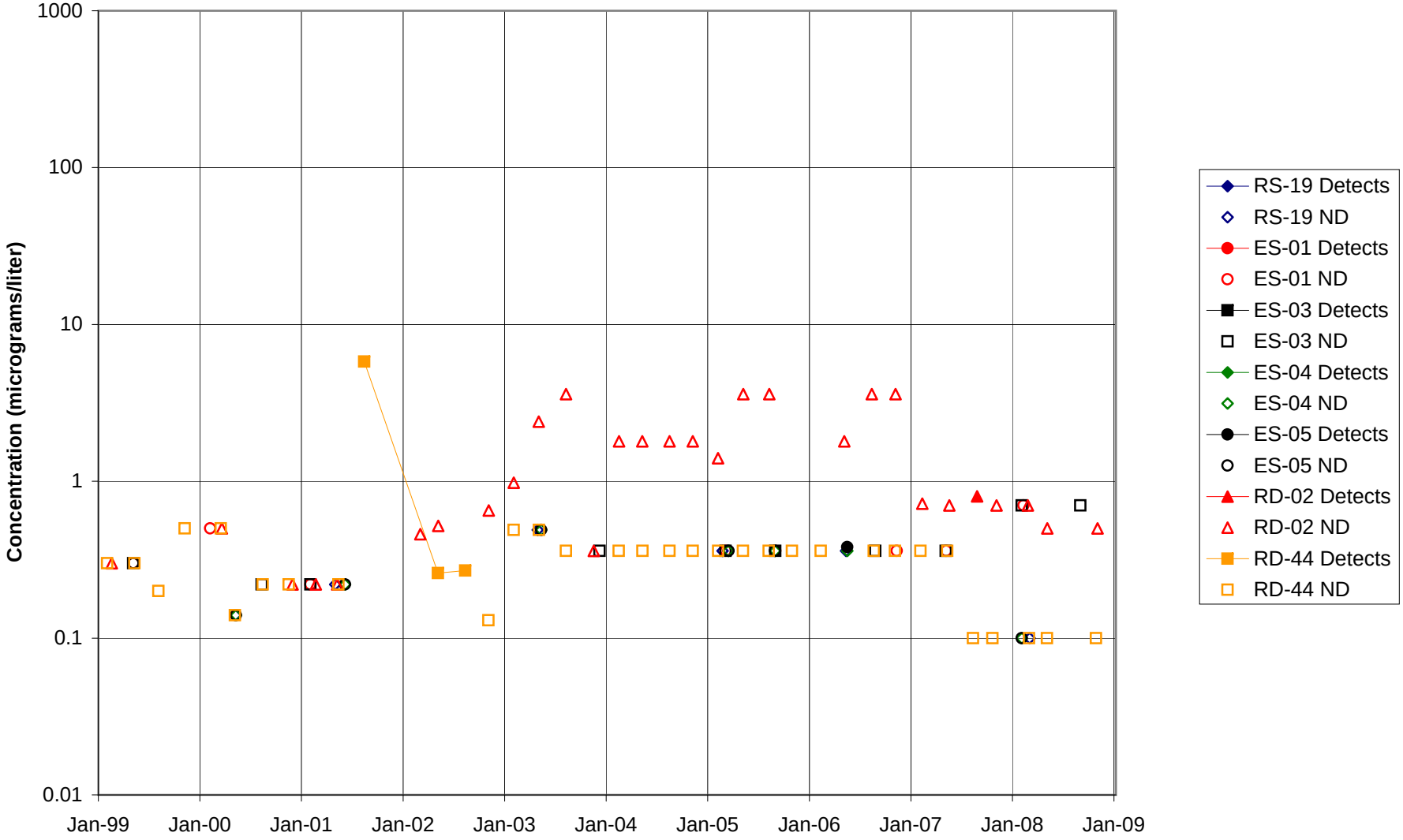


FIGURE F-311. TOLUENE in ECL AREA WELLS

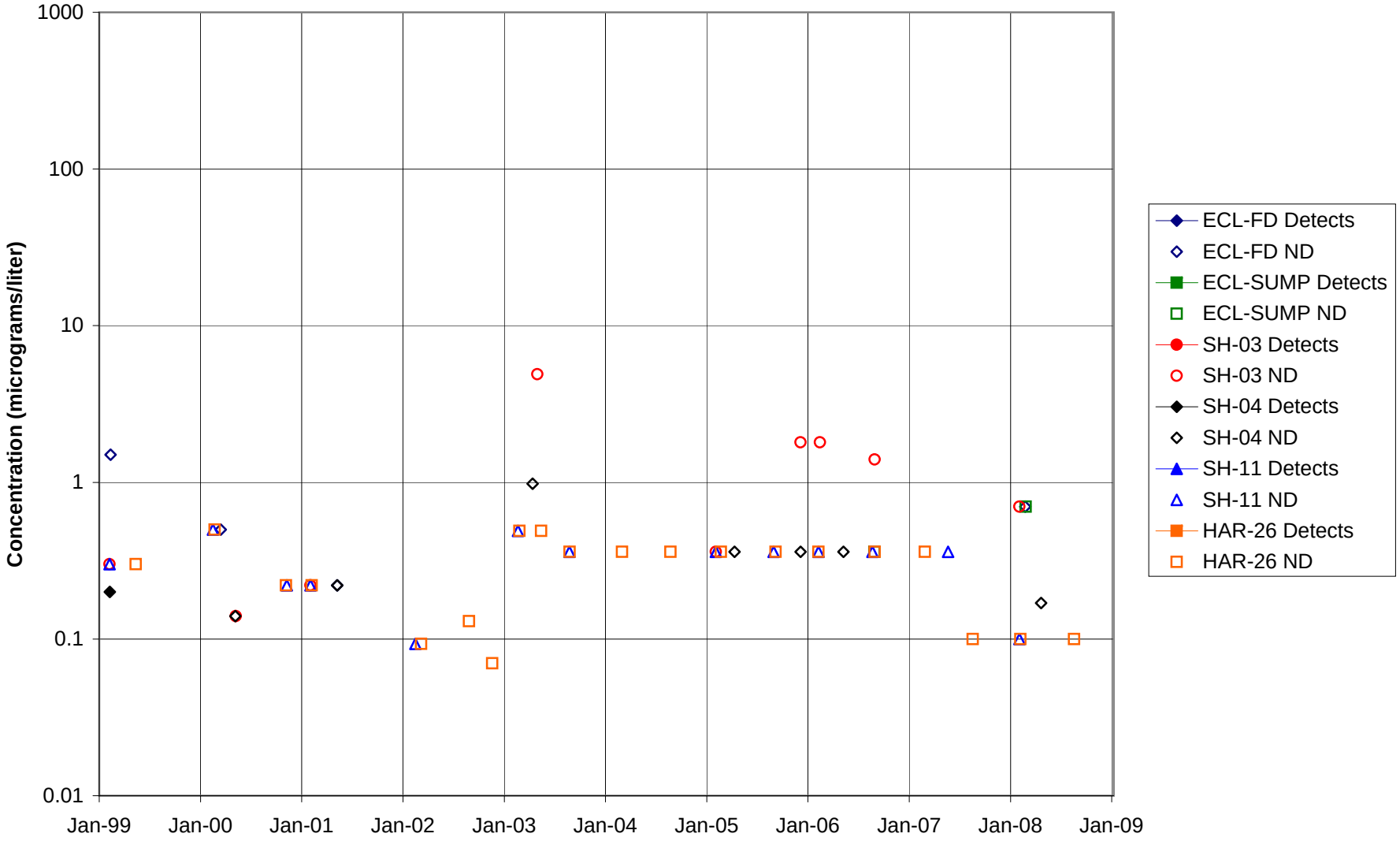


FIGURE F-312. TOLUENE in RD-09 AREA WELLS

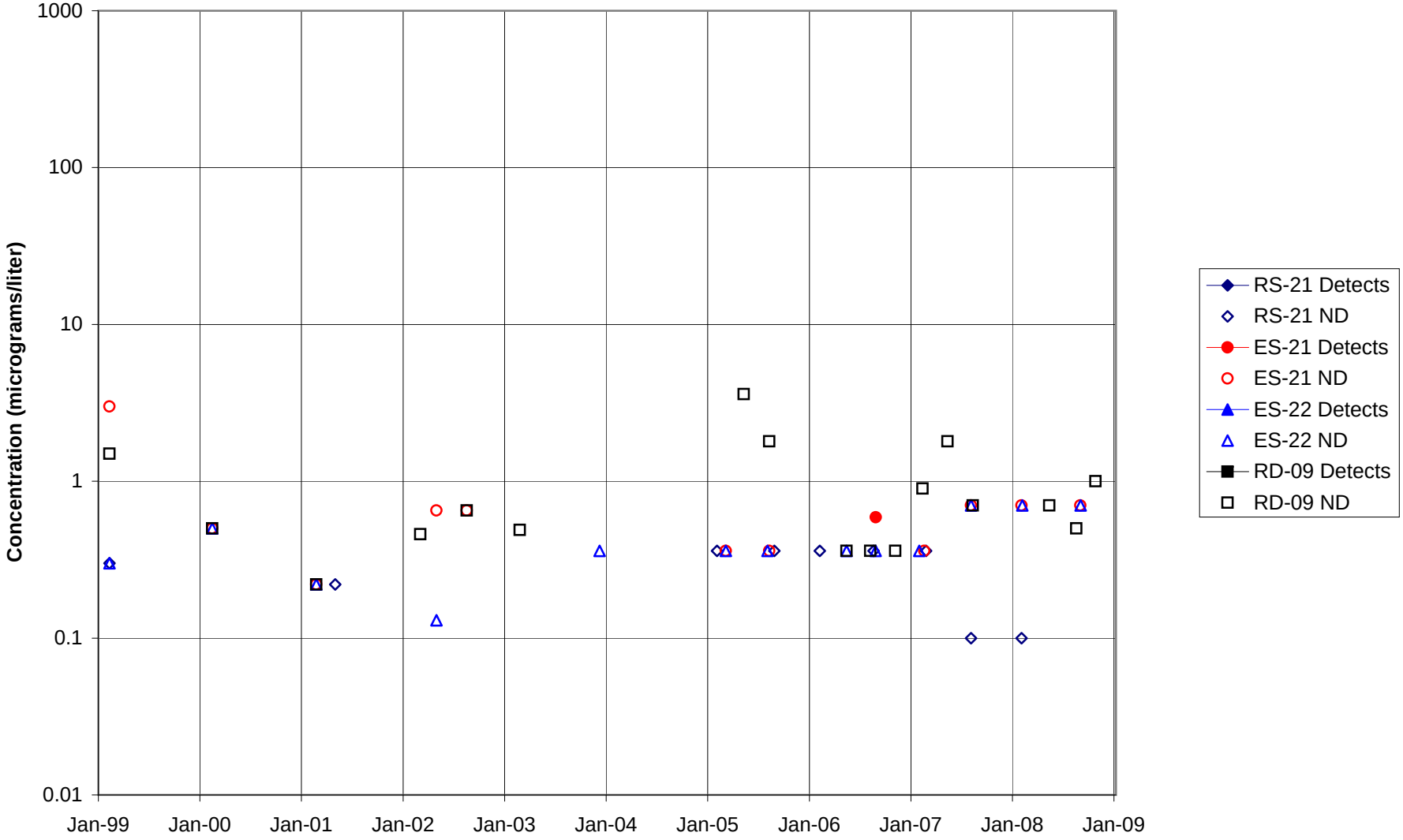


FIGURE F-313. TOLUENE in FORMER LOX PLANT AREA WELLS

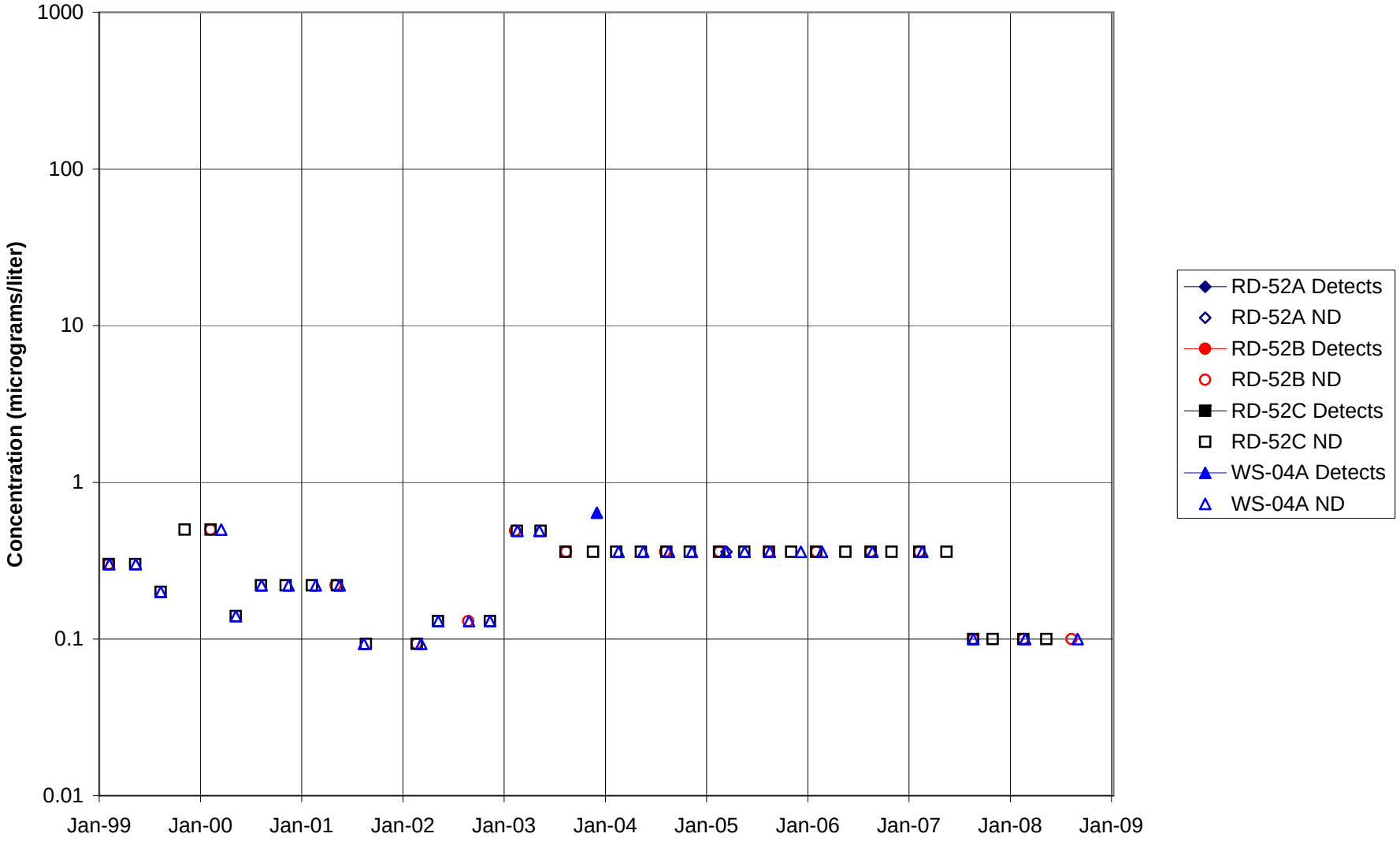


FIGURE F-314. TOLUENE in HELIPORT, B/204 AREA WELLS

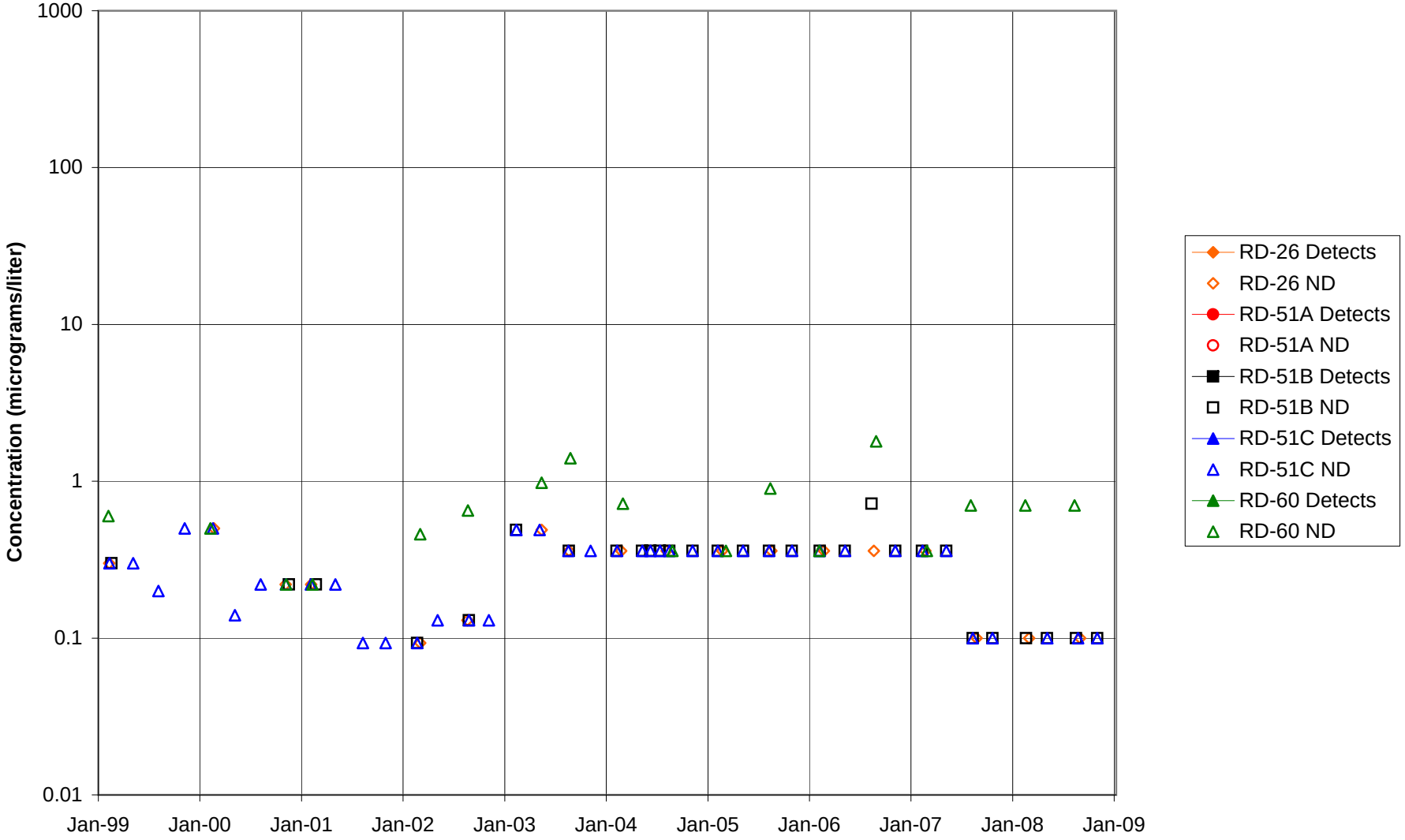


FIGURE F-315. TOLUENE in ALFA / BRAVO AREA WELLS

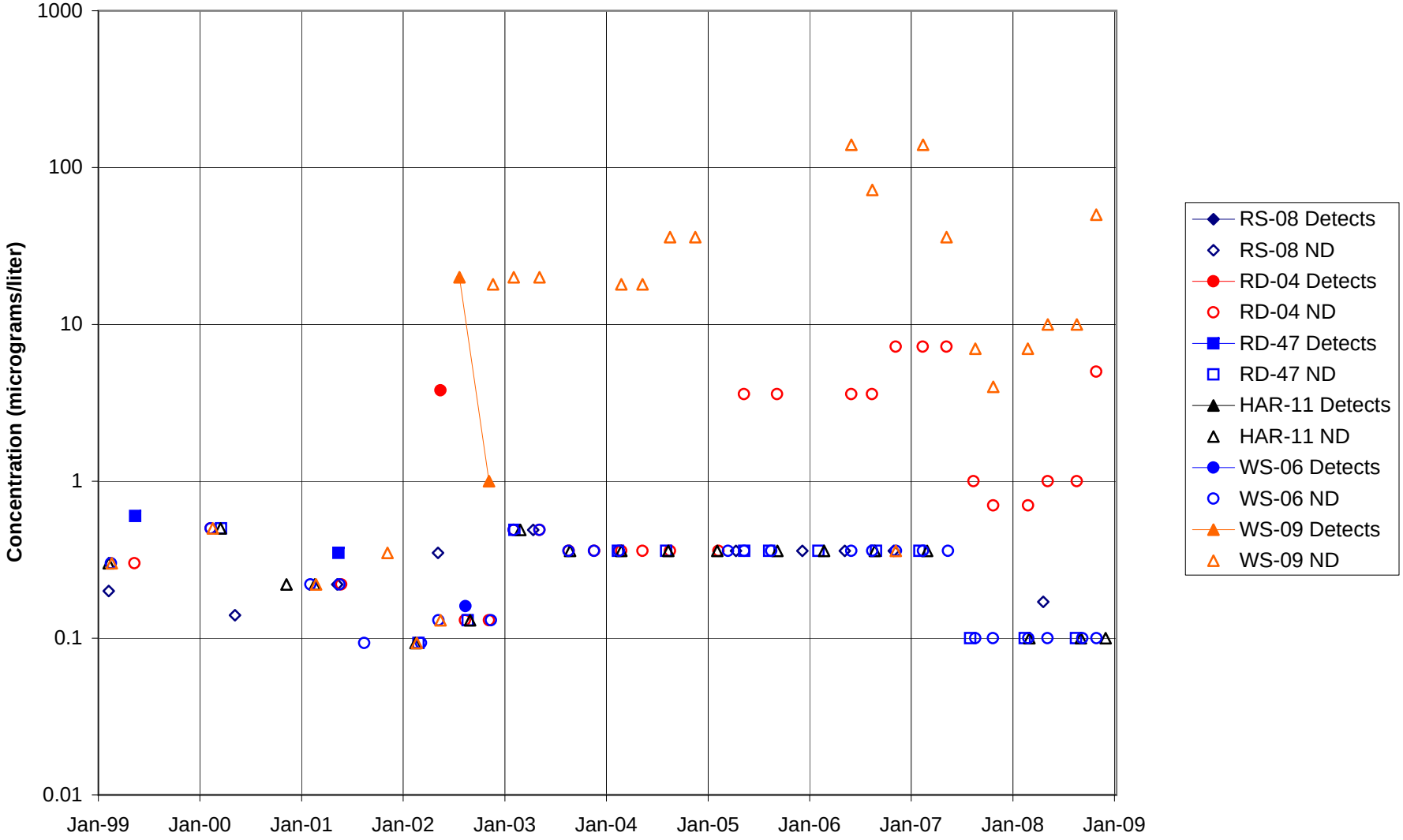


FIGURE F-316. TOLUENE in SPA AREA WELLS

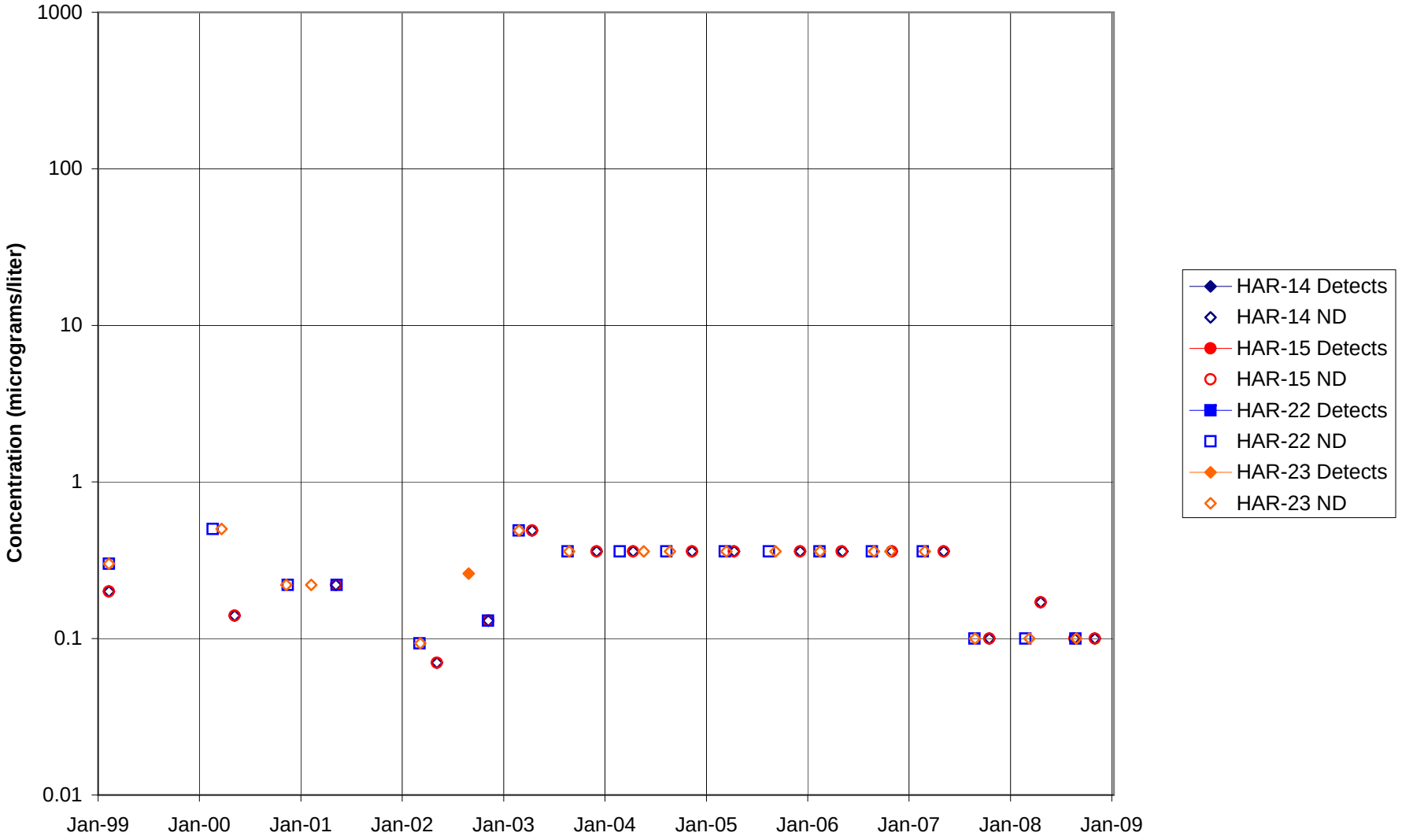


FIGURE F-317. TOLUENE in COCA / PLF AREA WELLS

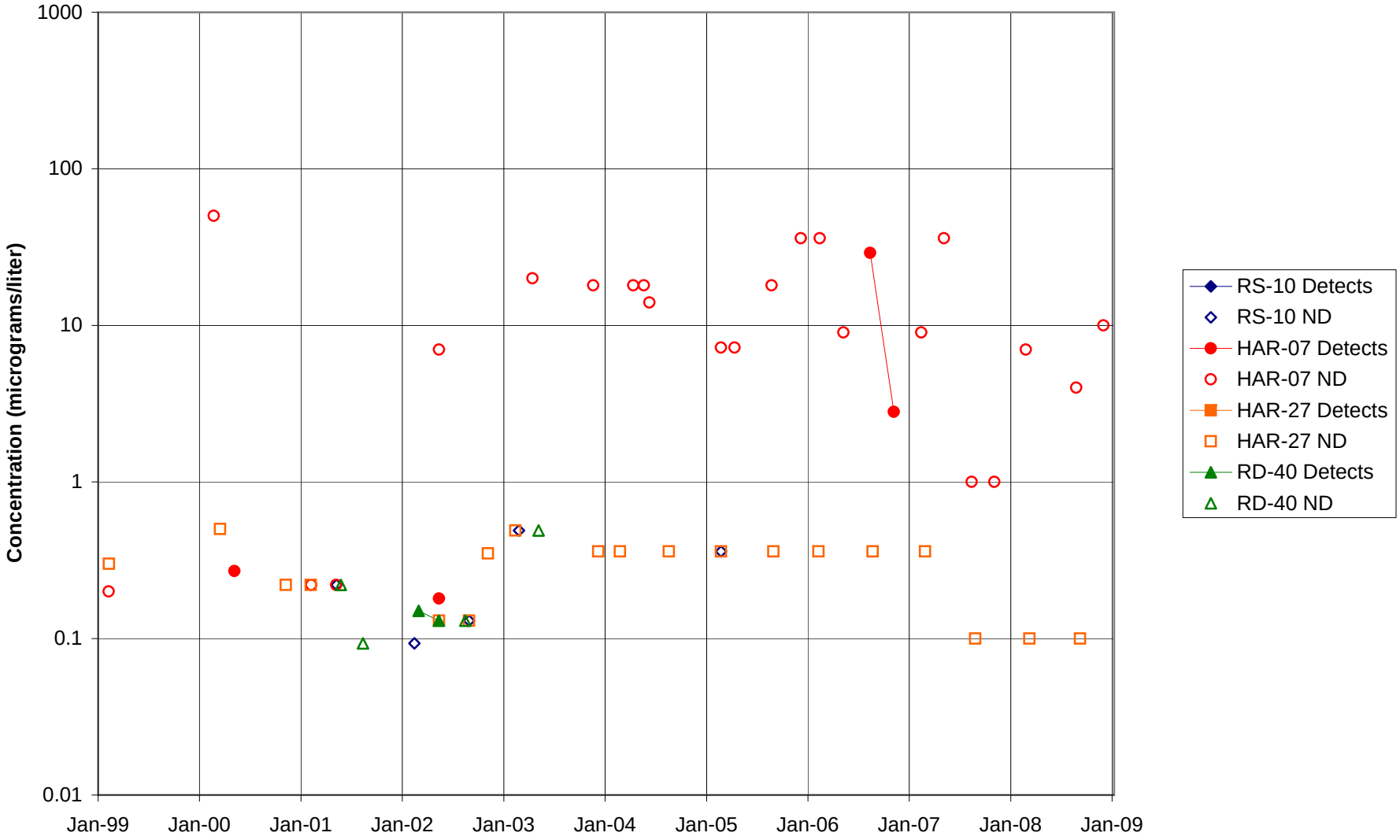


FIGURE F-318. TOLUENE in DELTA / BUFFER ZONE AREA WELLS

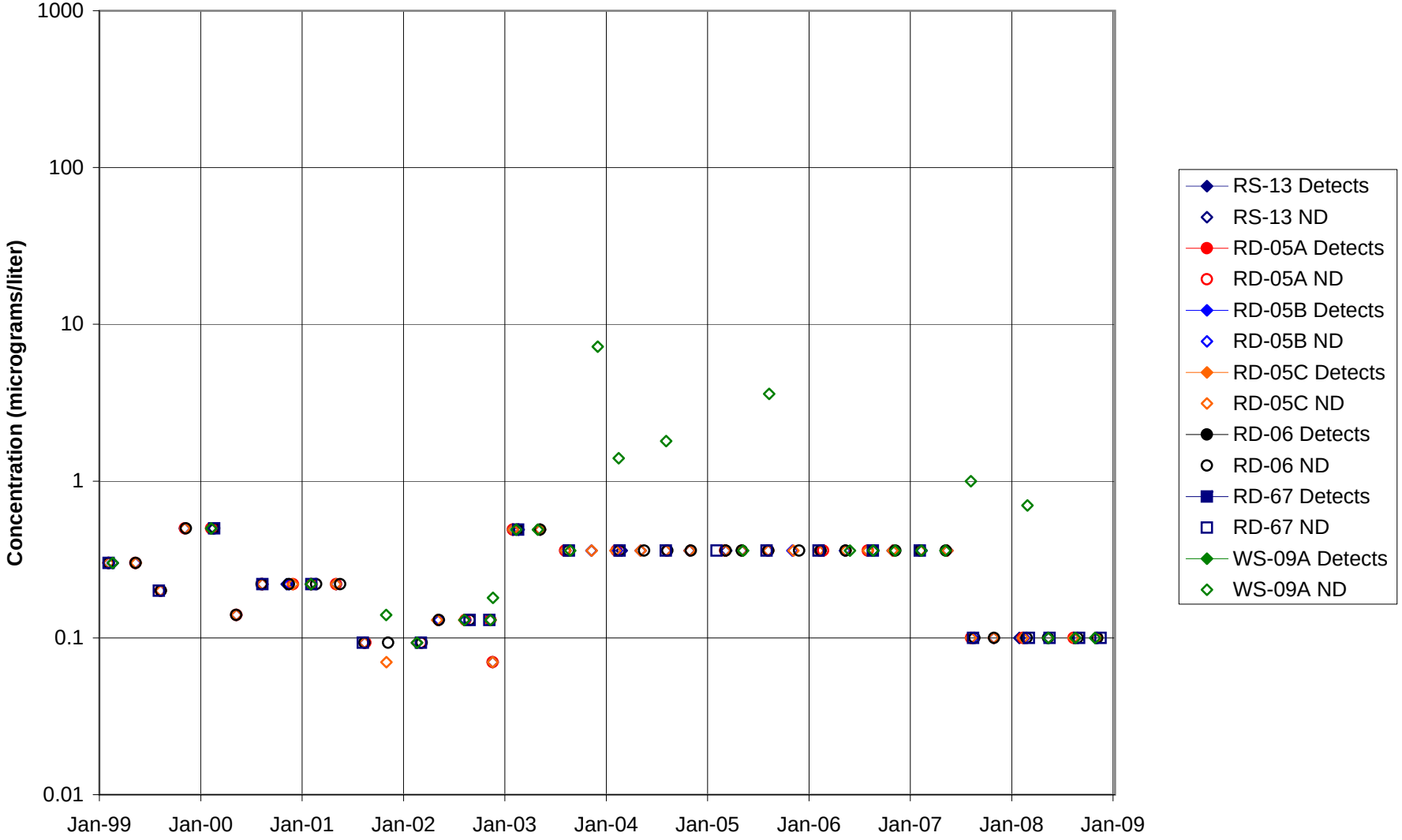


FIGURE F-319. TOLUENE in AREA IV WELLS

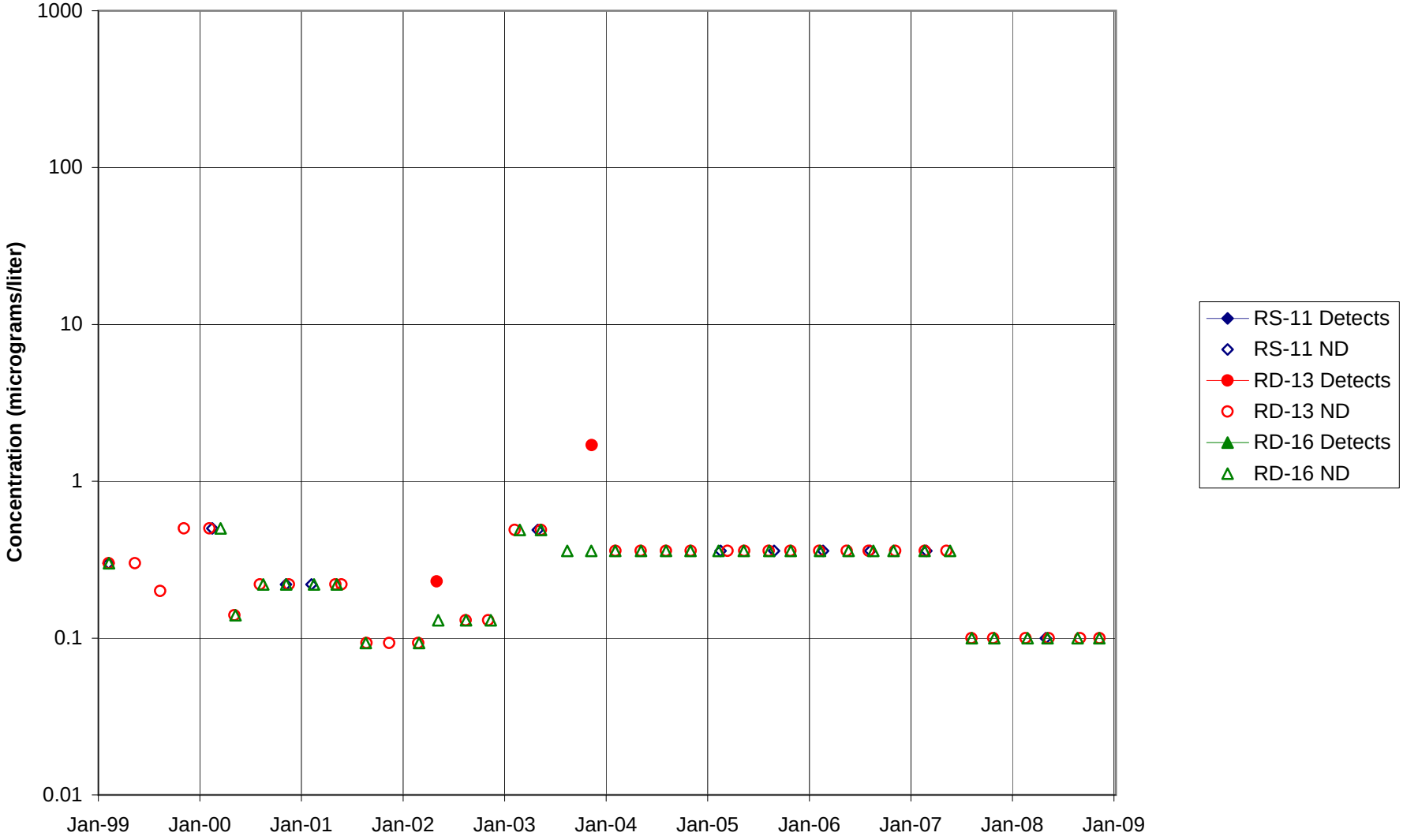


FIGURE F-320. TRANS-1,2-DCE in STL-IV AREA SHALLOW WELLS

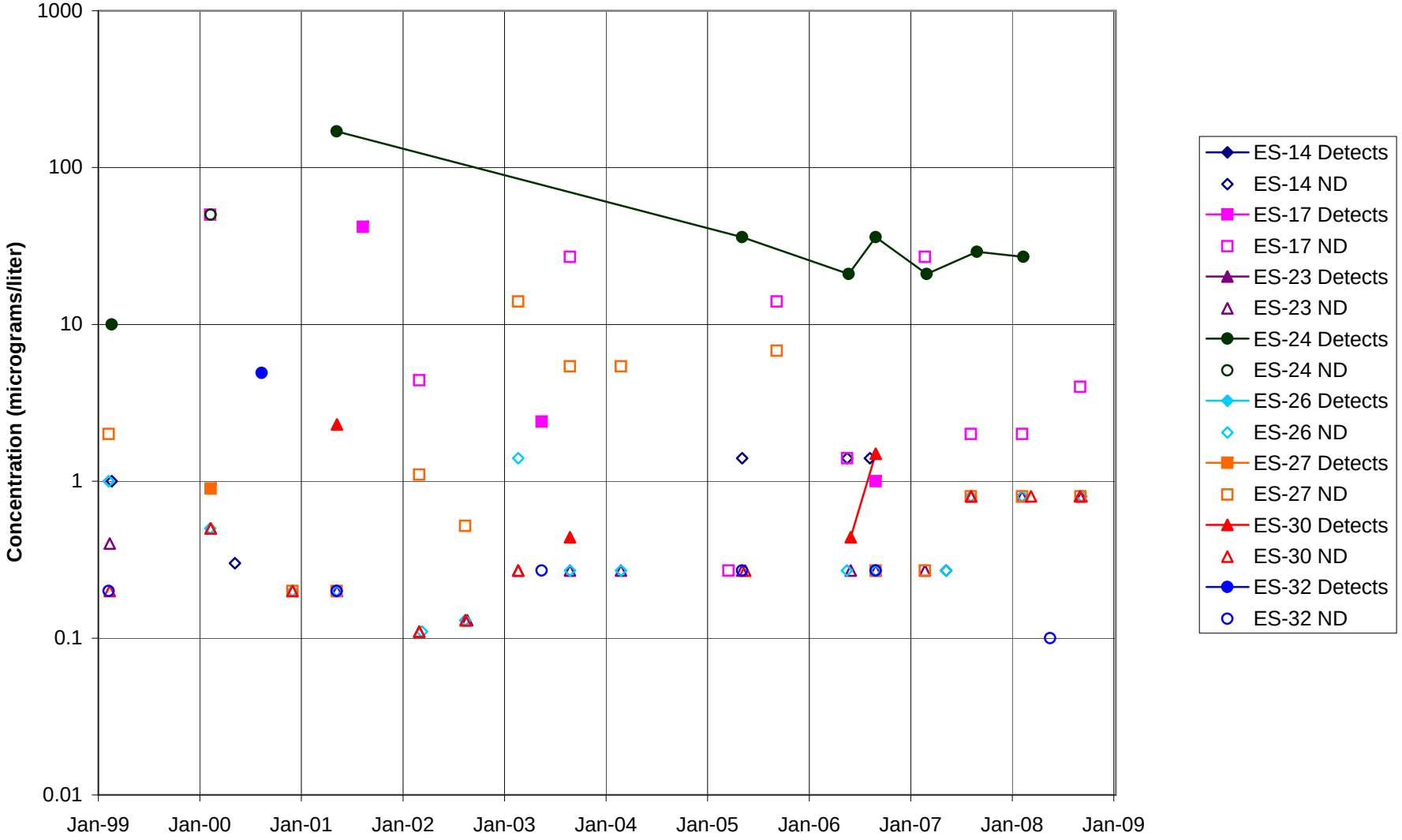


FIGURE F-321. TRANS-1,2-DCE in STL-IV AREA CHATSWORTH FORMATION WELLS

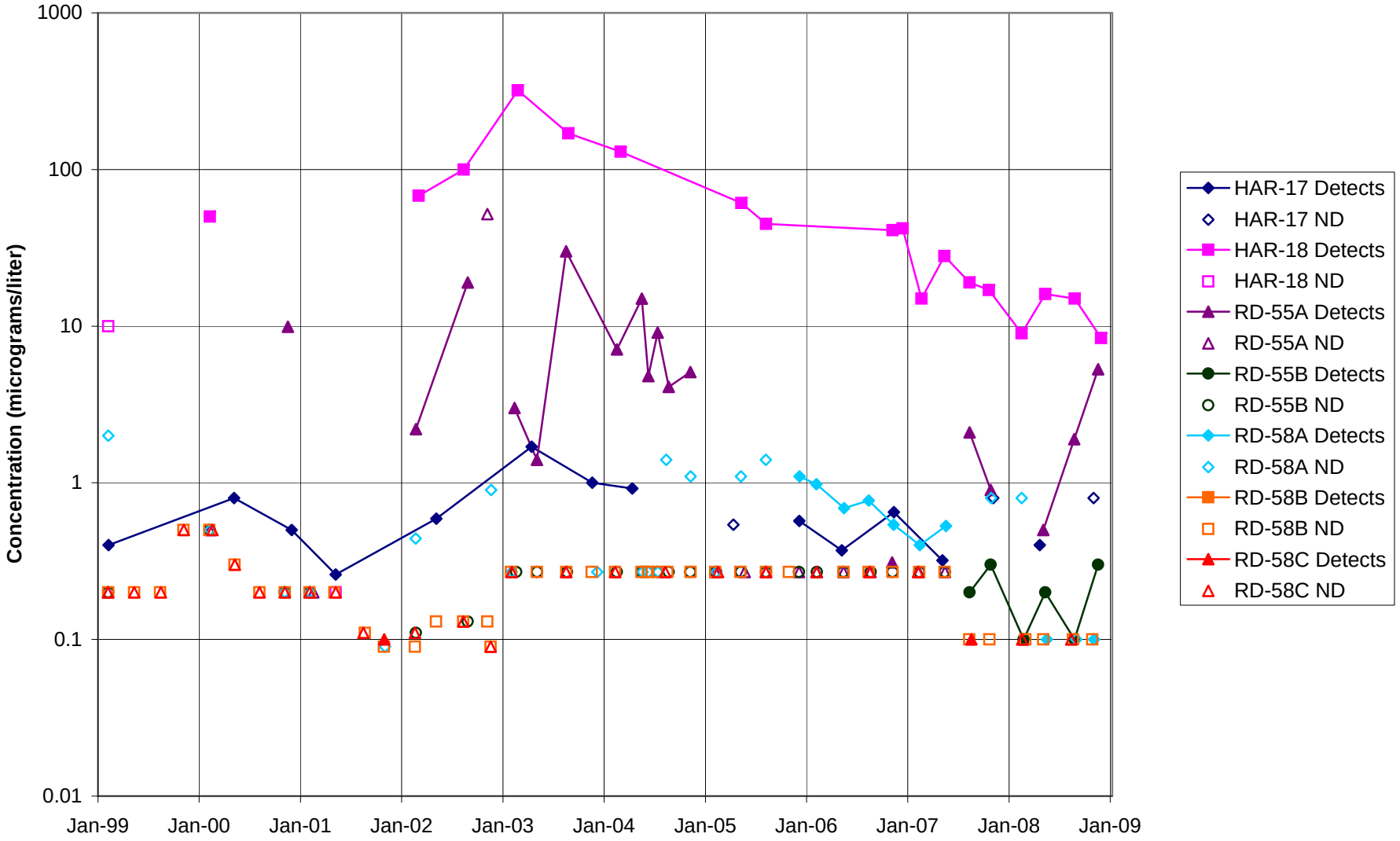


FIGURE F-322. TRANS-1,2-DCE in MAIN GATE AREA WELLS - 1

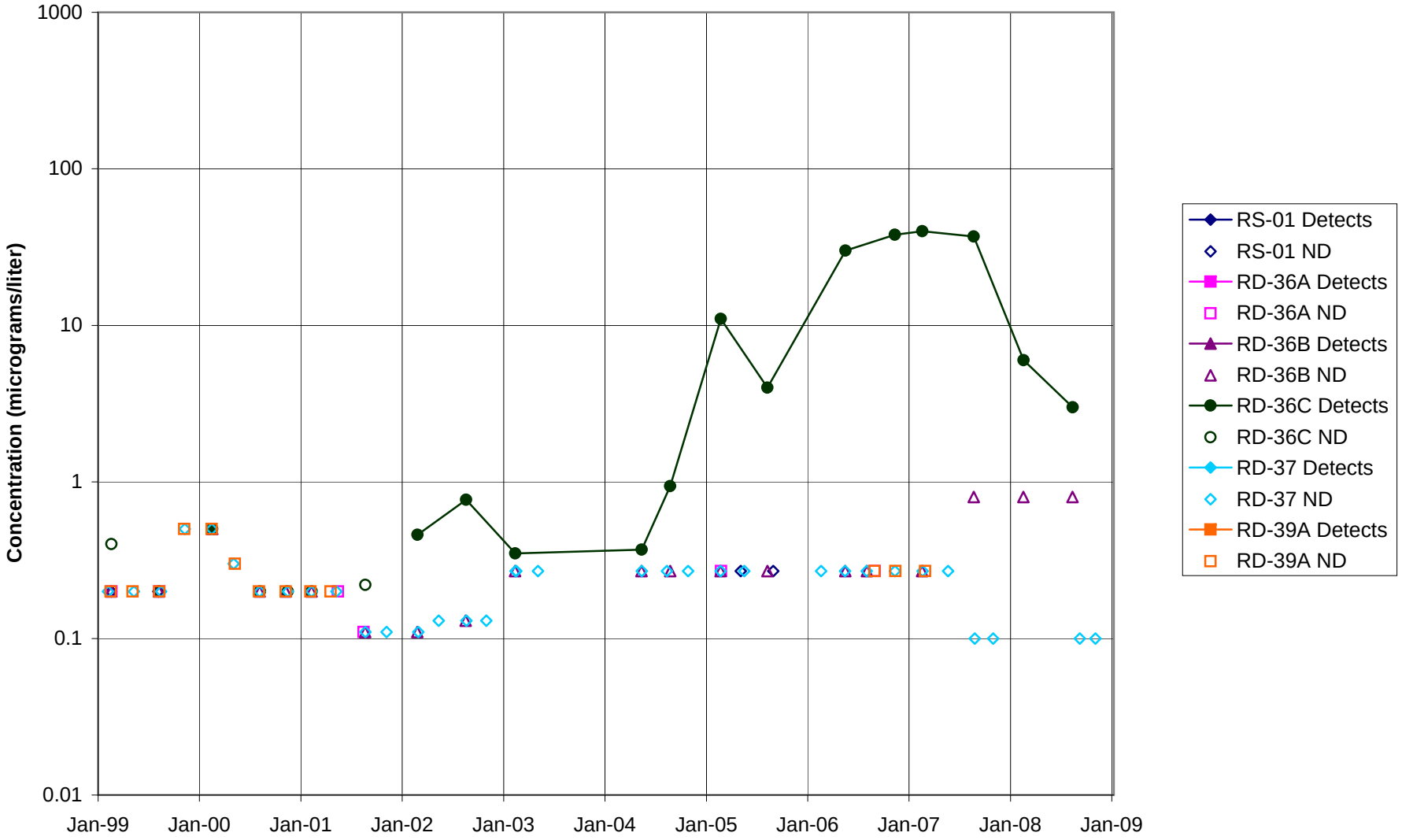


FIGURE F-323. TRANS-1,2-DCE in MAIN GATE AREA WELLS - 2

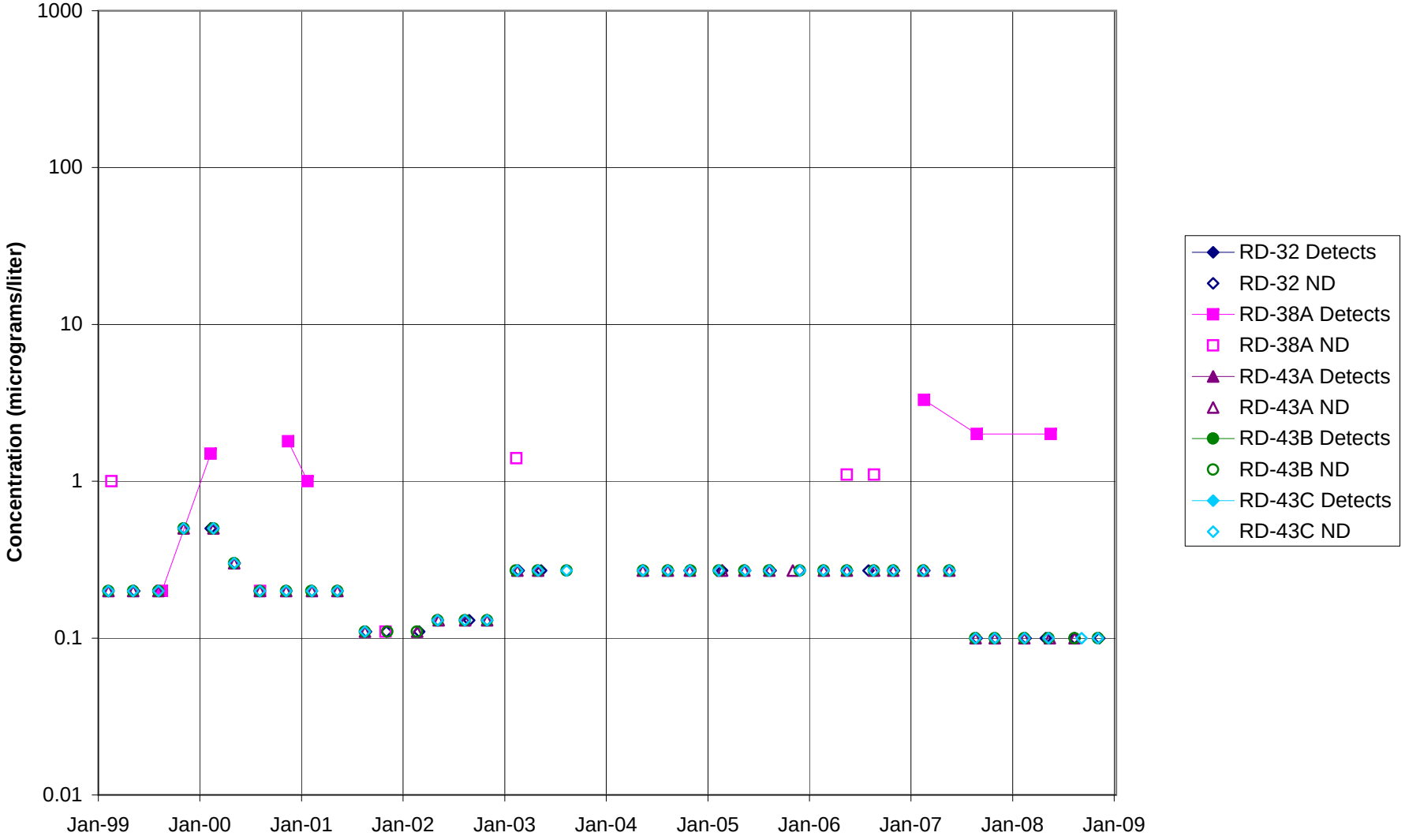


FIGURE F-324. TRANS-1,2-DCE in APTF, CANYON, & HAPPY VALLEY AREA WELLS - 1

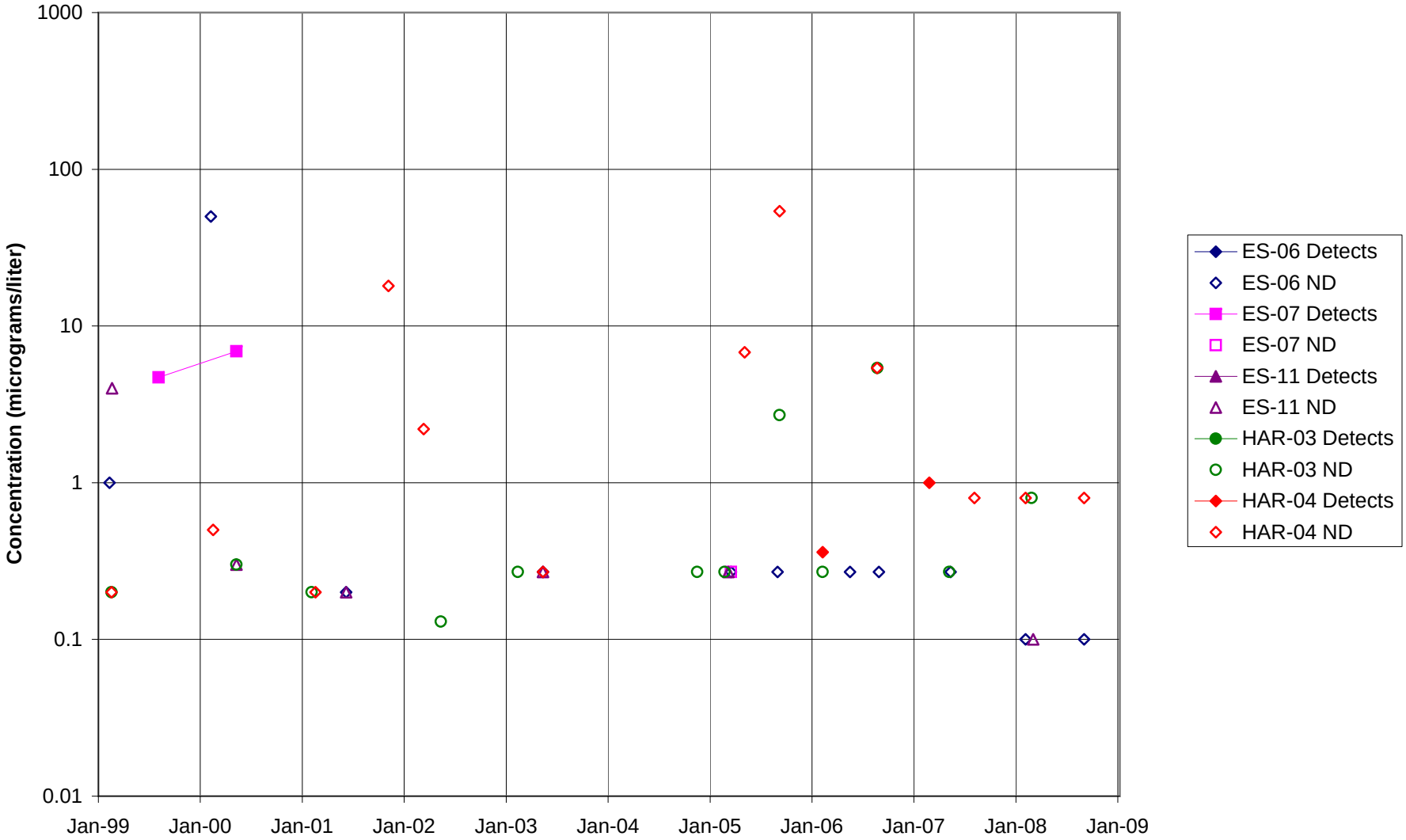


FIGURE F-325. TRANS-1,2-DCE in APTF, CANYON, & HAPPY VALLEY AREA WELLS - 2

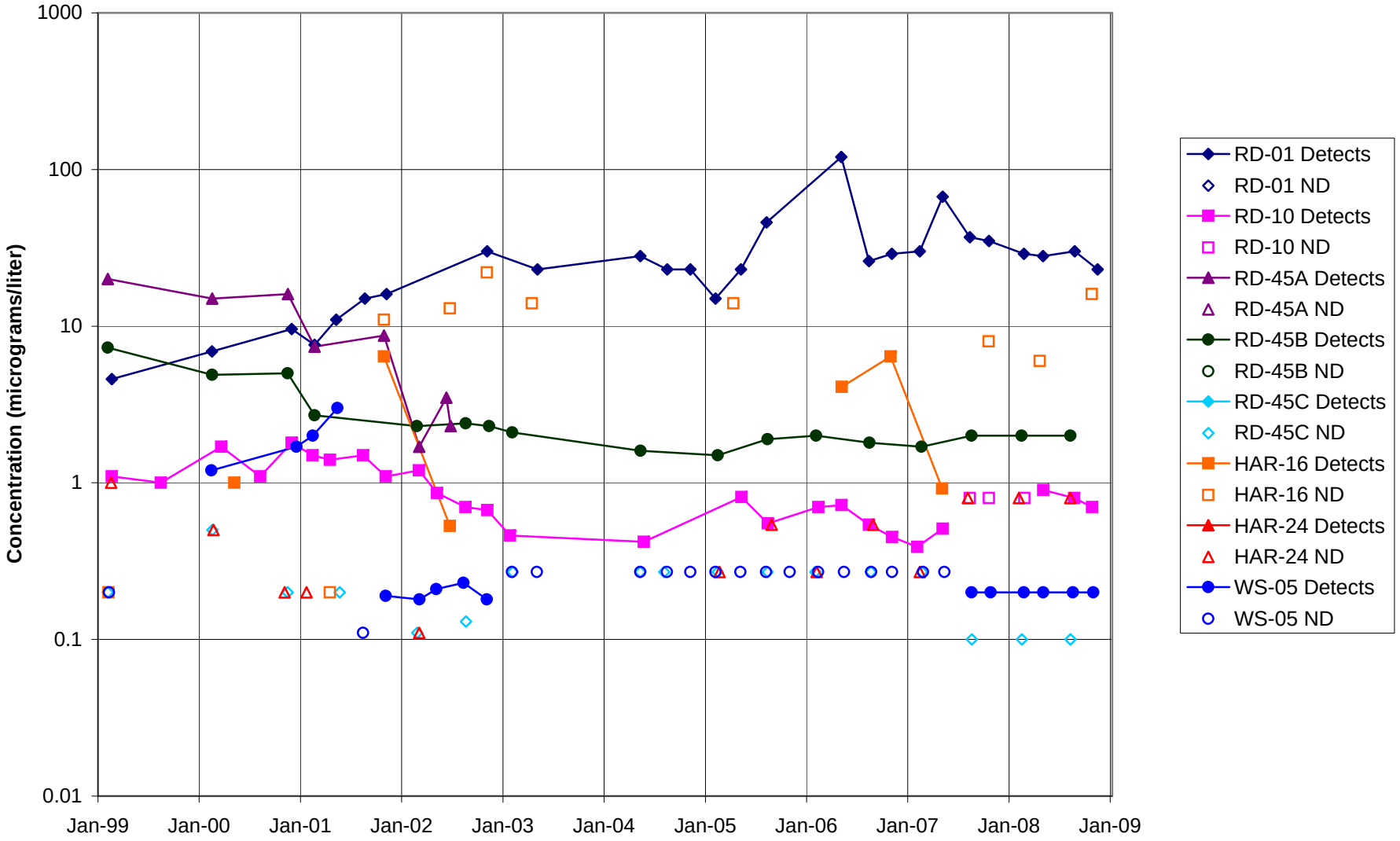


FIGURE F-326. TRANS-1,2-DCE in CTL-III / PERIMETER POND AREA WELLS

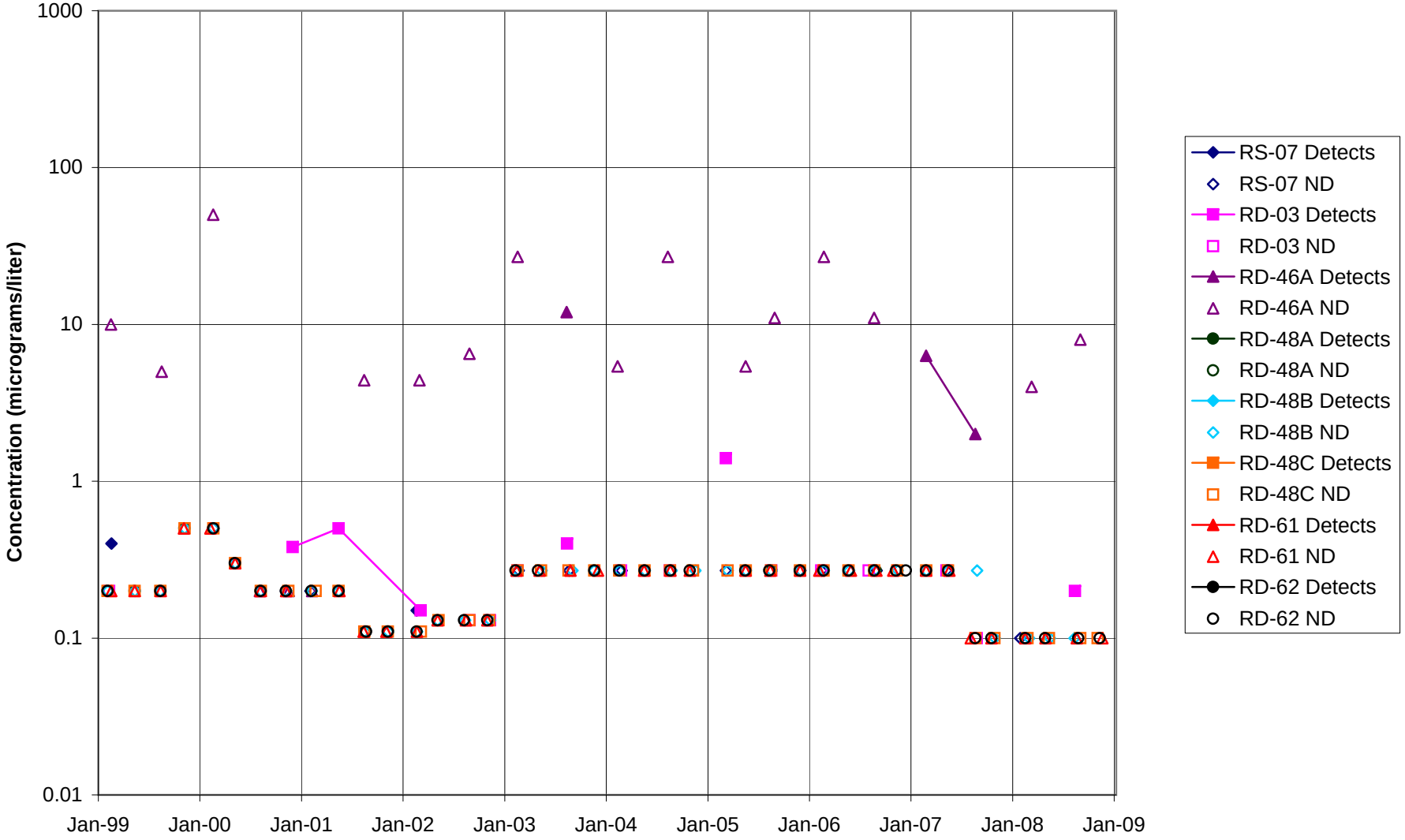


FIGURE F-327. TRANS-1,2-DCE in BOWL AREA WELLS

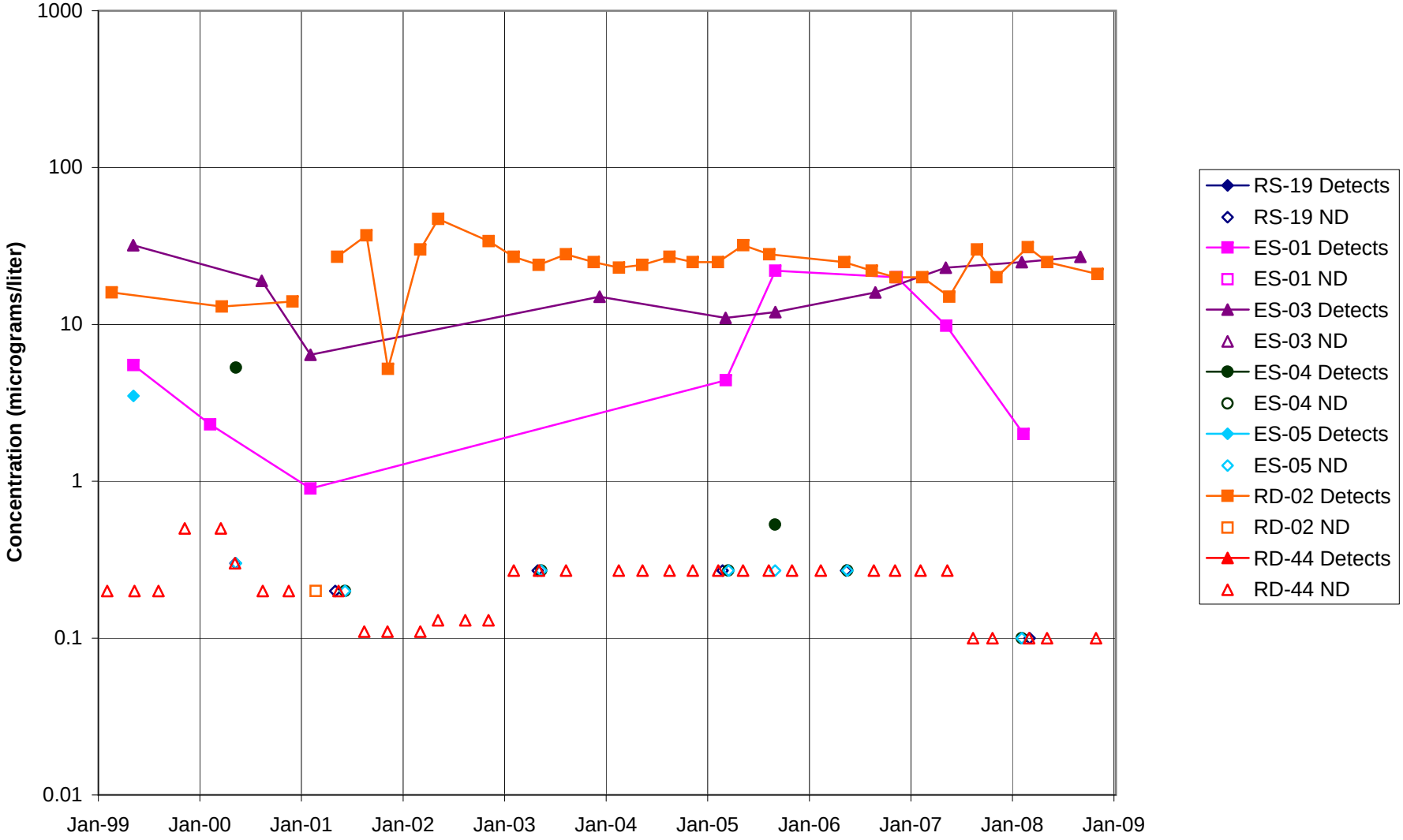


FIGURE F-328. TRANS-1,2-DCE in ECL AREA WELLS

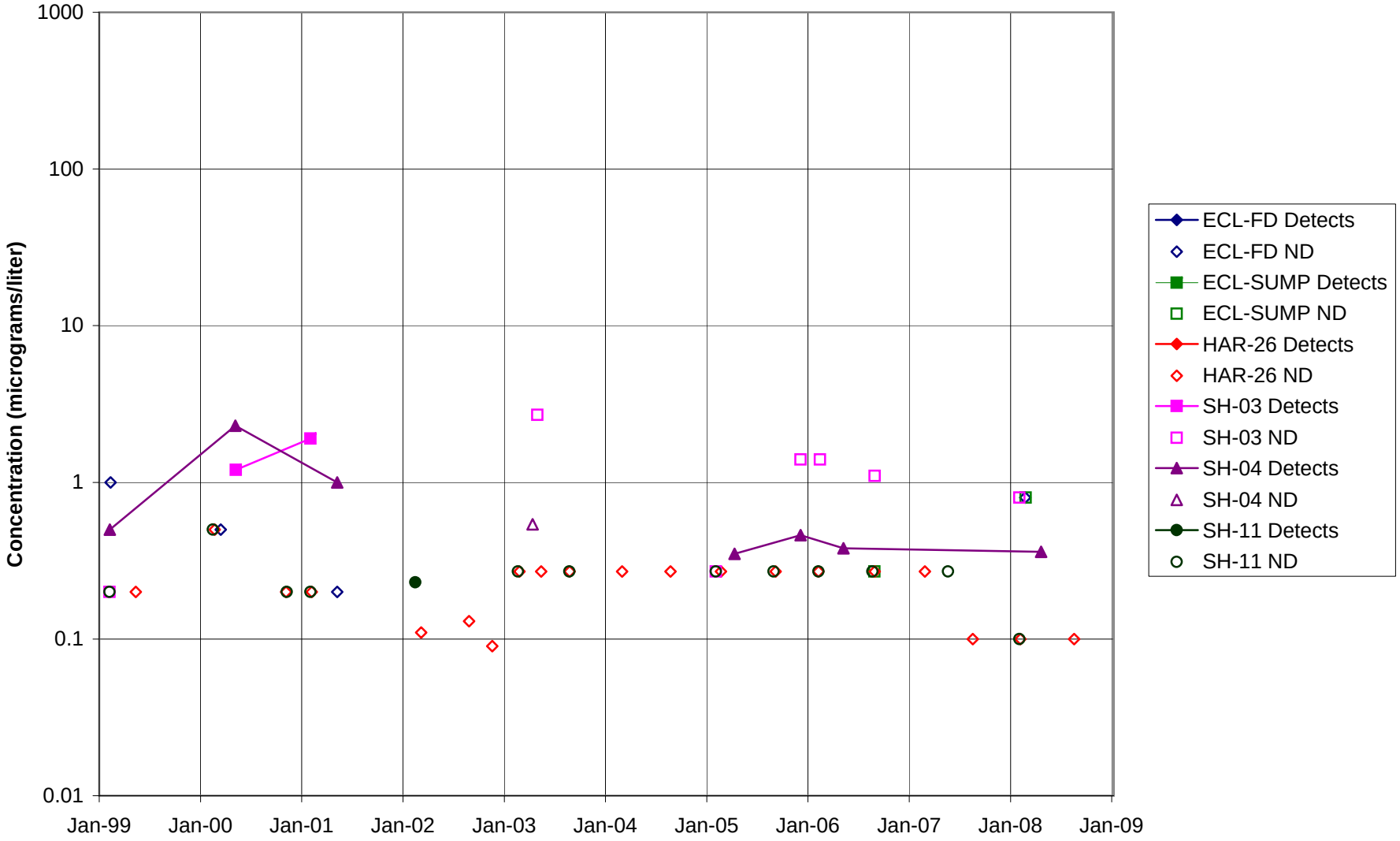


FIGURE F-329. TRANS-1,2-DCE in FORMER LOX PLANT AREA WELLS

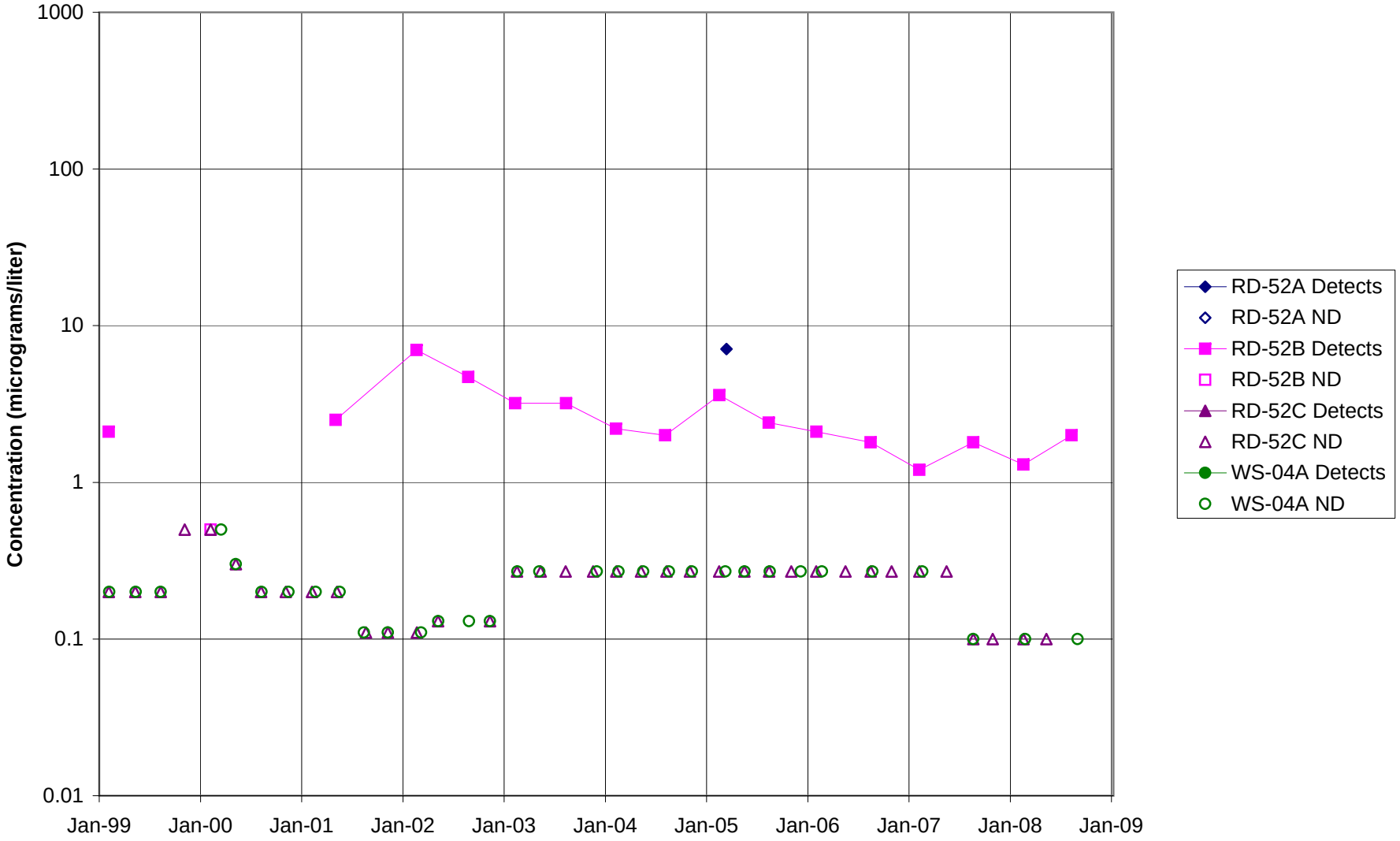


FIGURE F-330. TRANS-1,2-DCE in RD-09 AREA WELLS

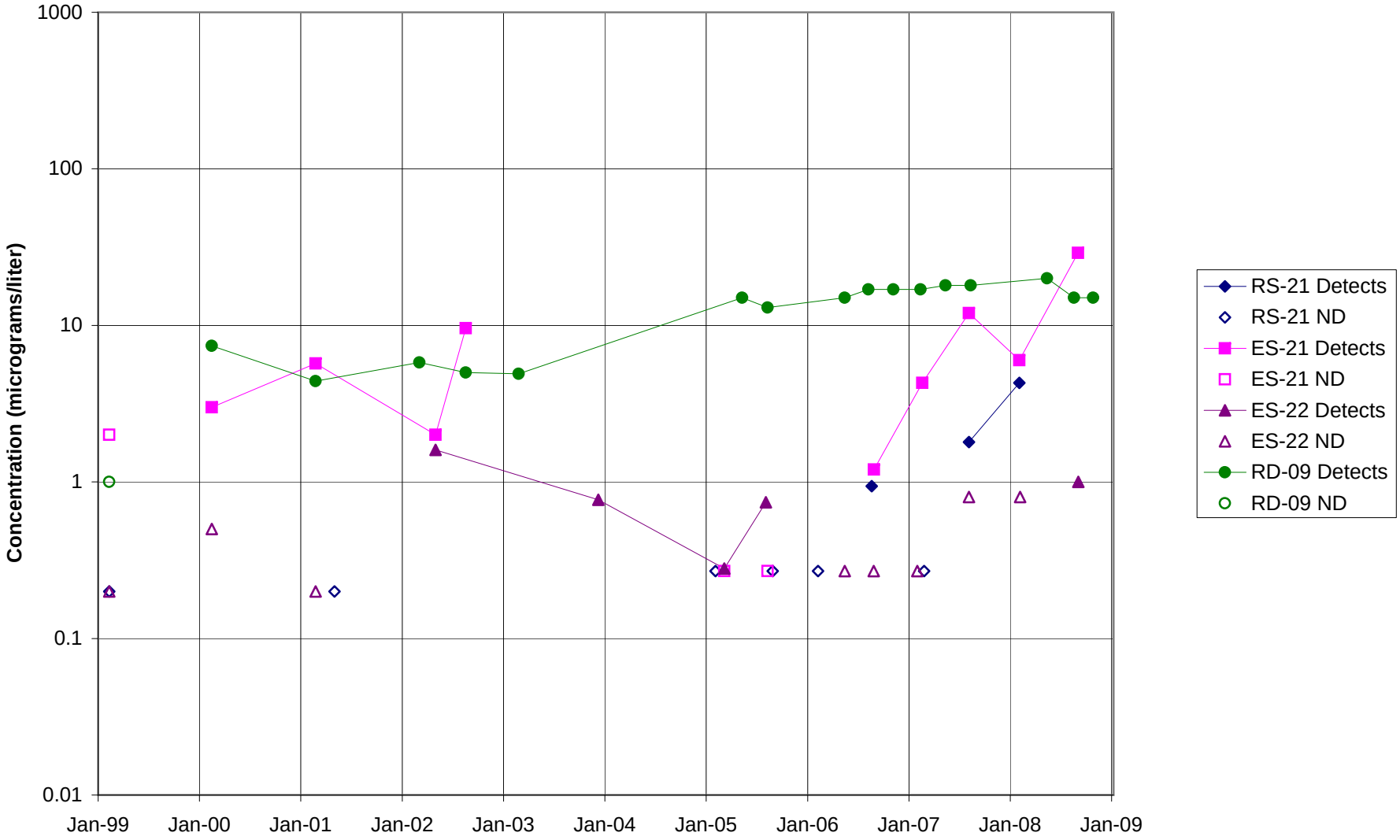


FIGURE F-331. TRANS-1,2-DCE in HELIPORT, B/204 AREA WELLS

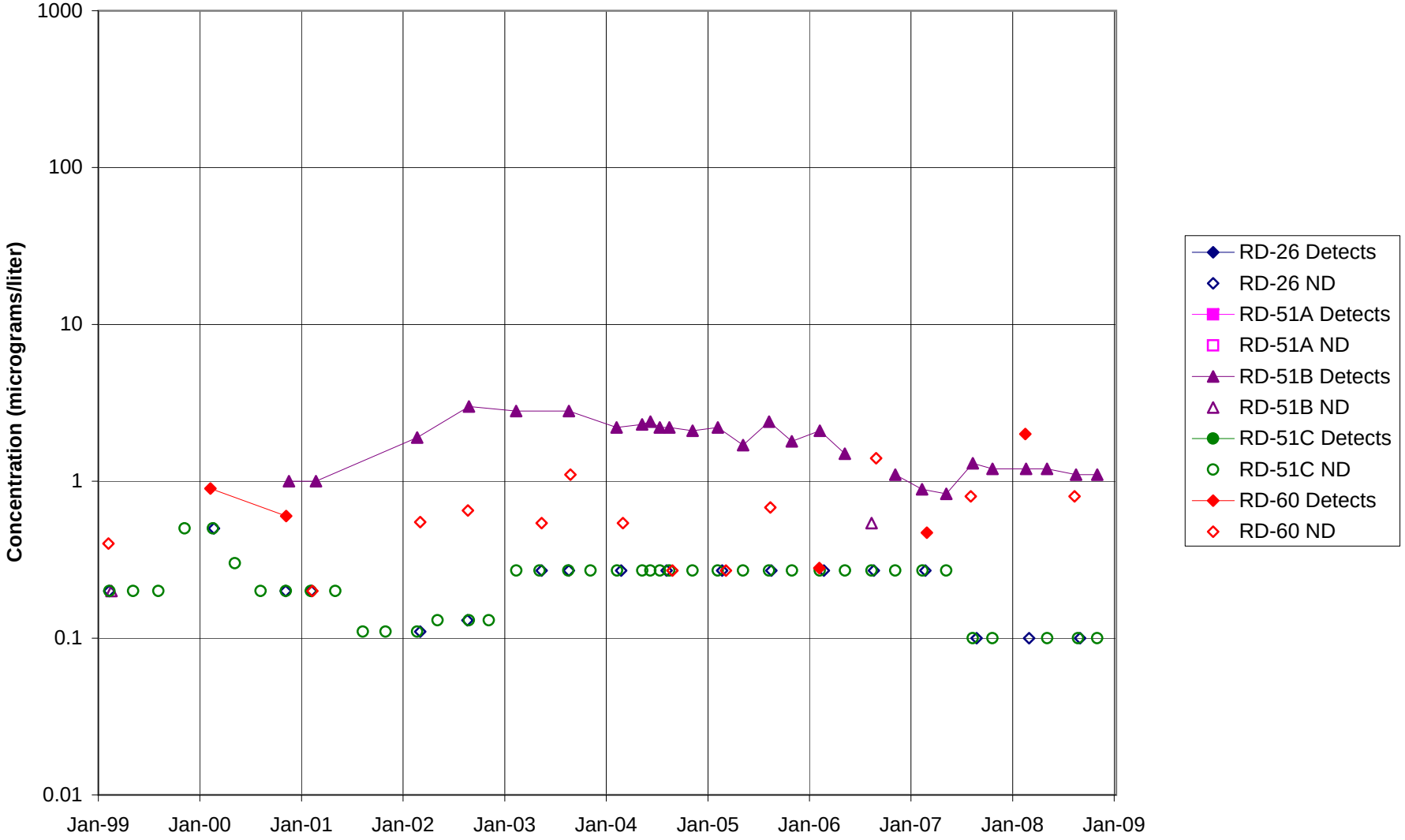


FIGURE F-332. TRANS-1,2-DCE in ALFA / BRAVO AREA WELLS

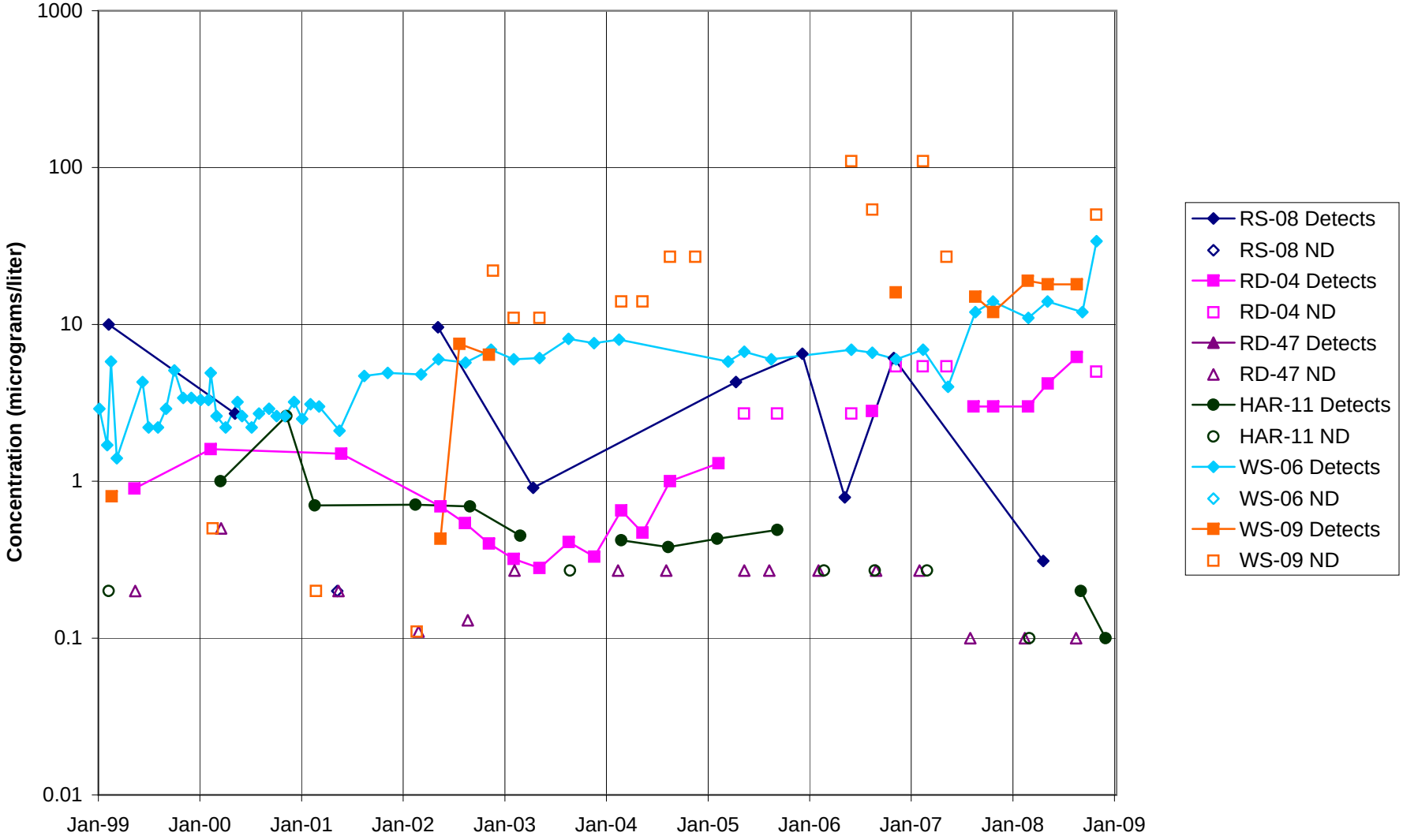


FIGURE F-333. TRANS-1,2-DCE in SPA AREA WELLS

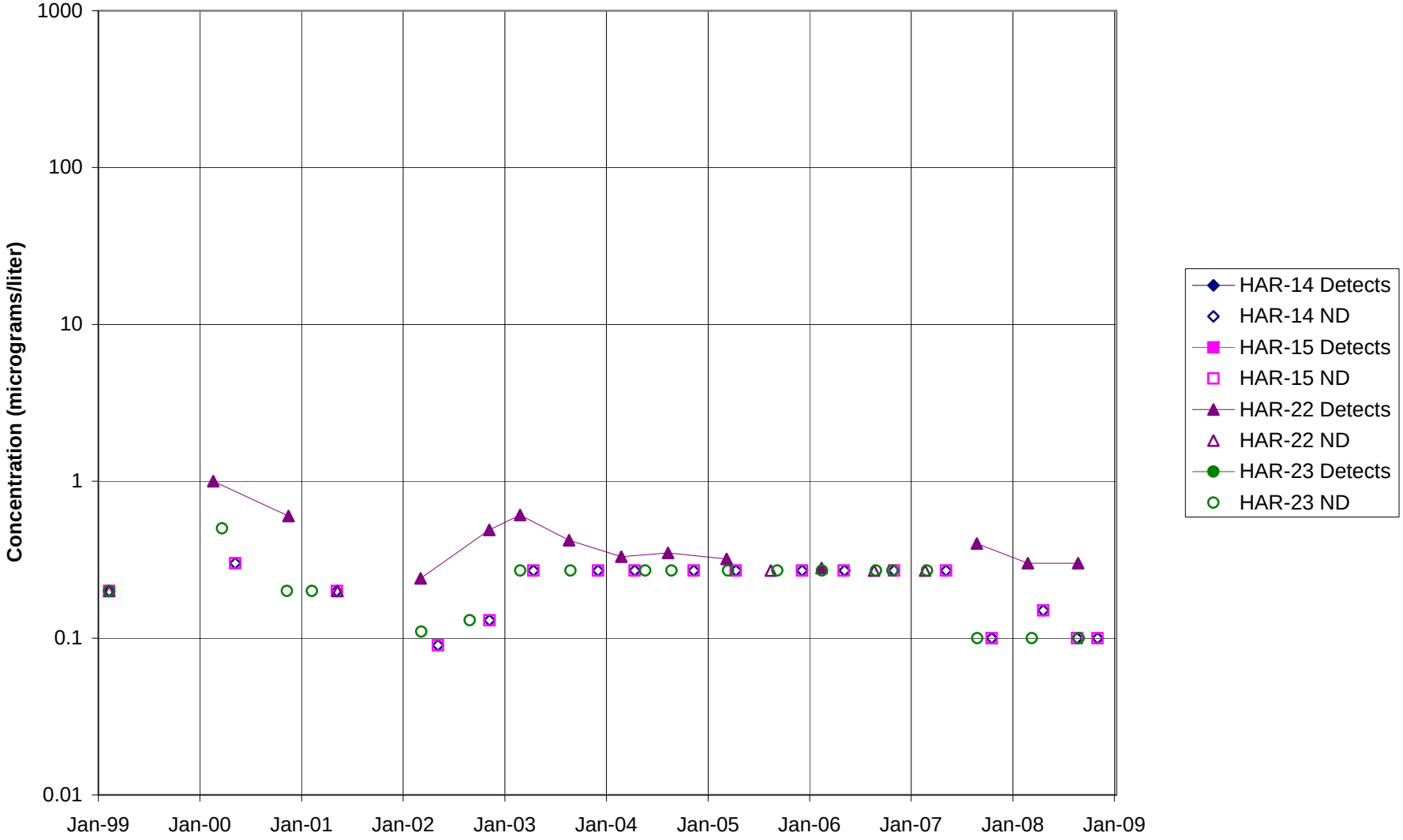


FIGURE F-334. TRANS-1,2-DCE in COCA / PLF AREA WELLS

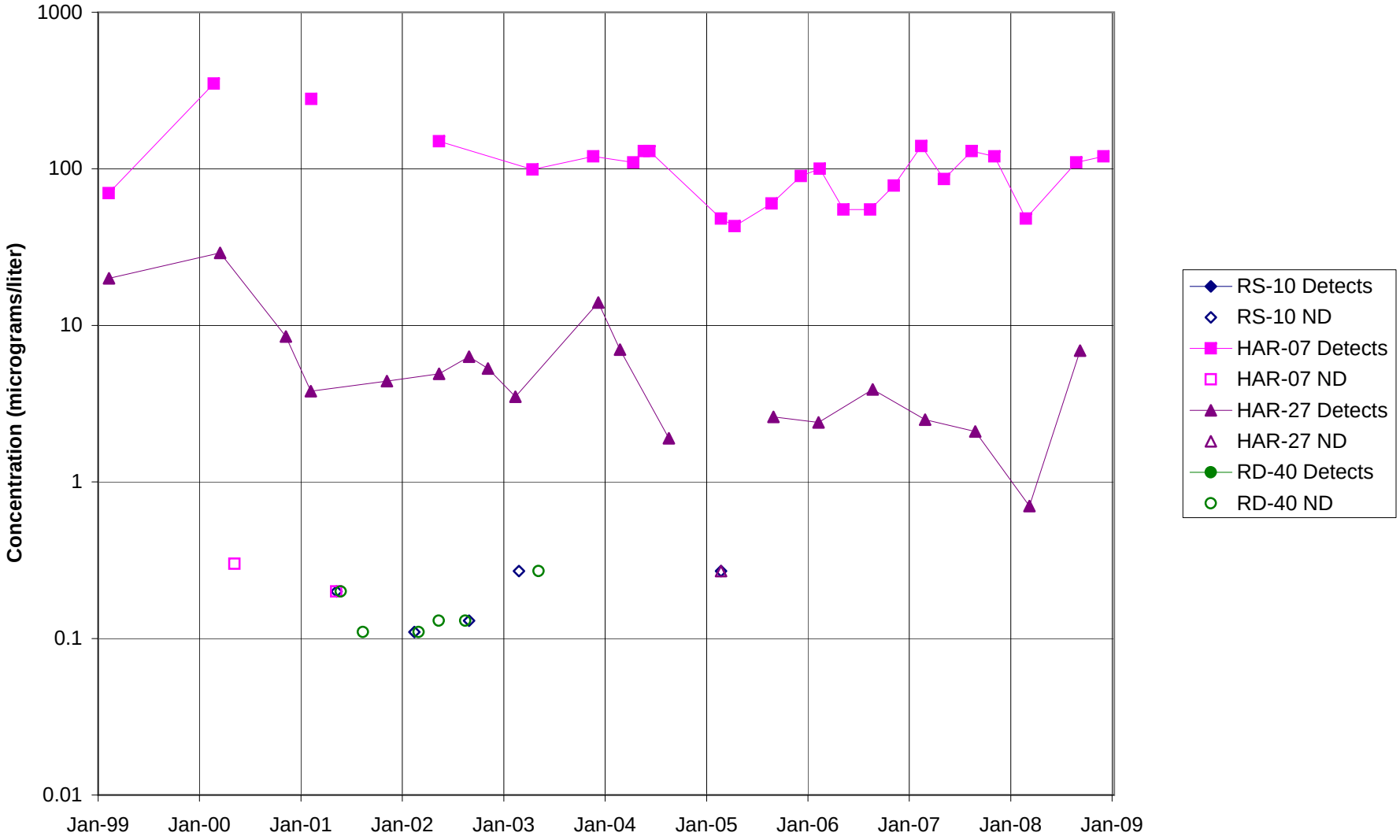


FIGURE F-335. TRANS-1,2-DCE in DELTA / BUFFER ZONE AREA WELLS

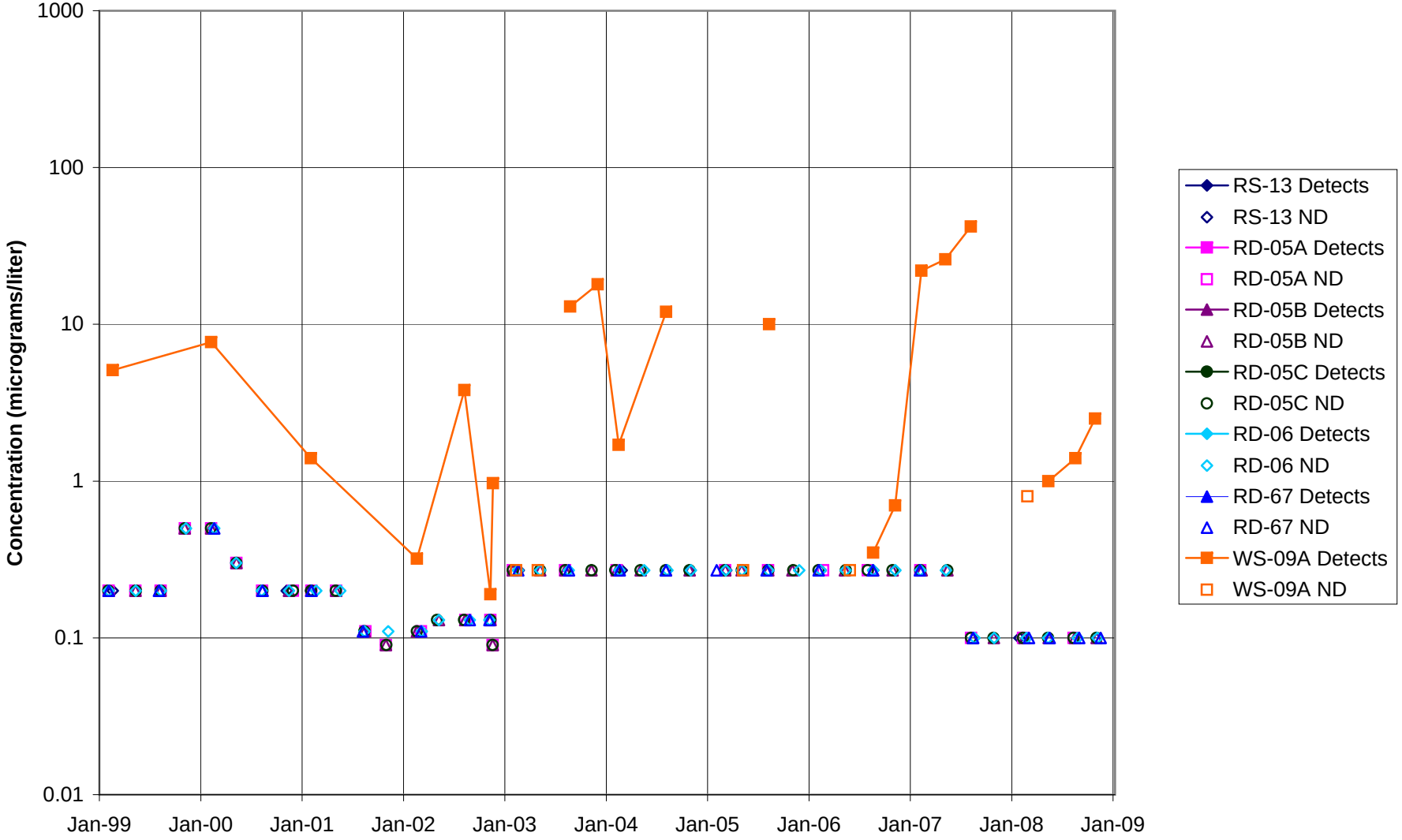


FIGURE F-336. TRANS-1,2-DCE in AREA IV WELLS

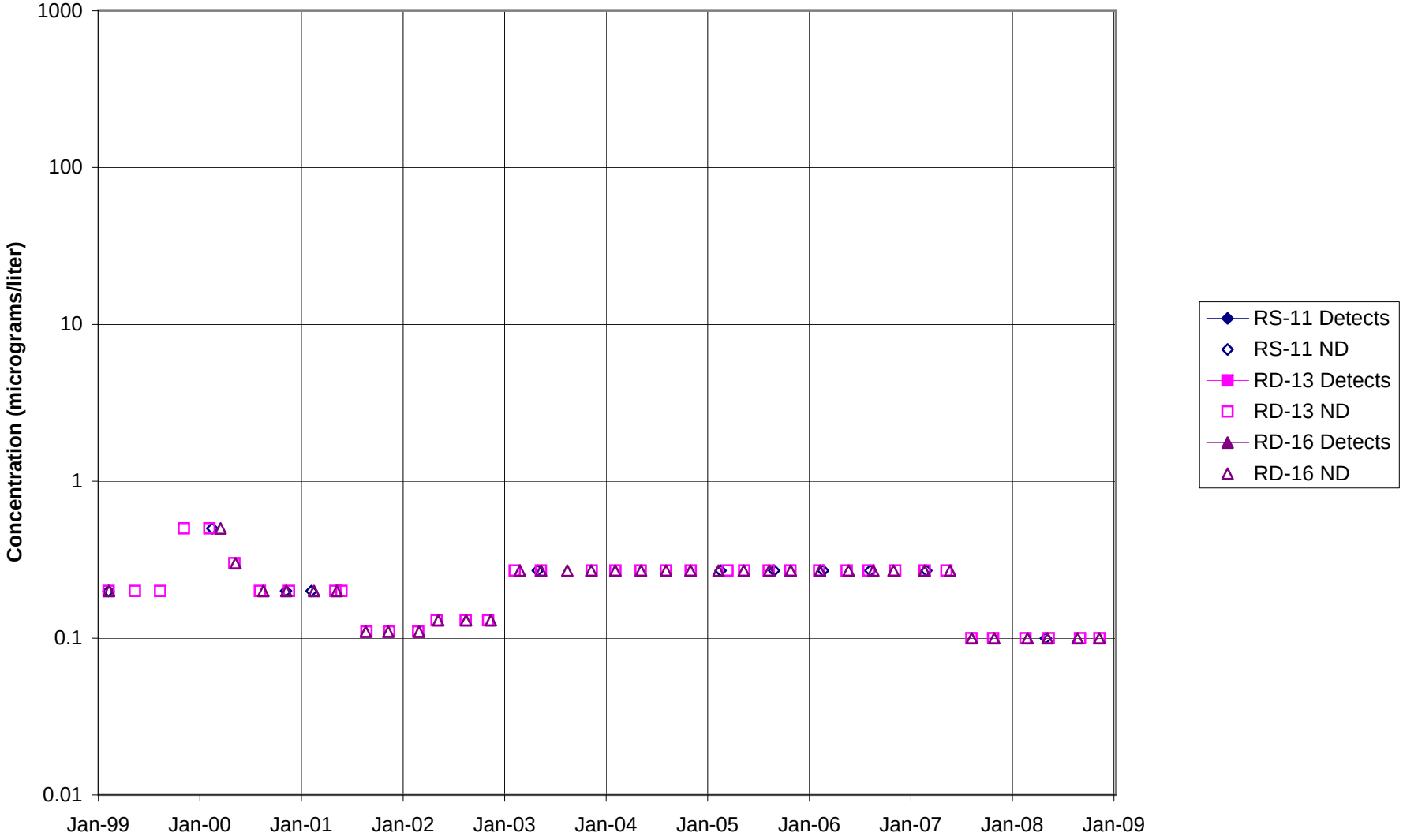


FIGURE F-337. TCE in STL-IV AREA SHALLOW WELLS

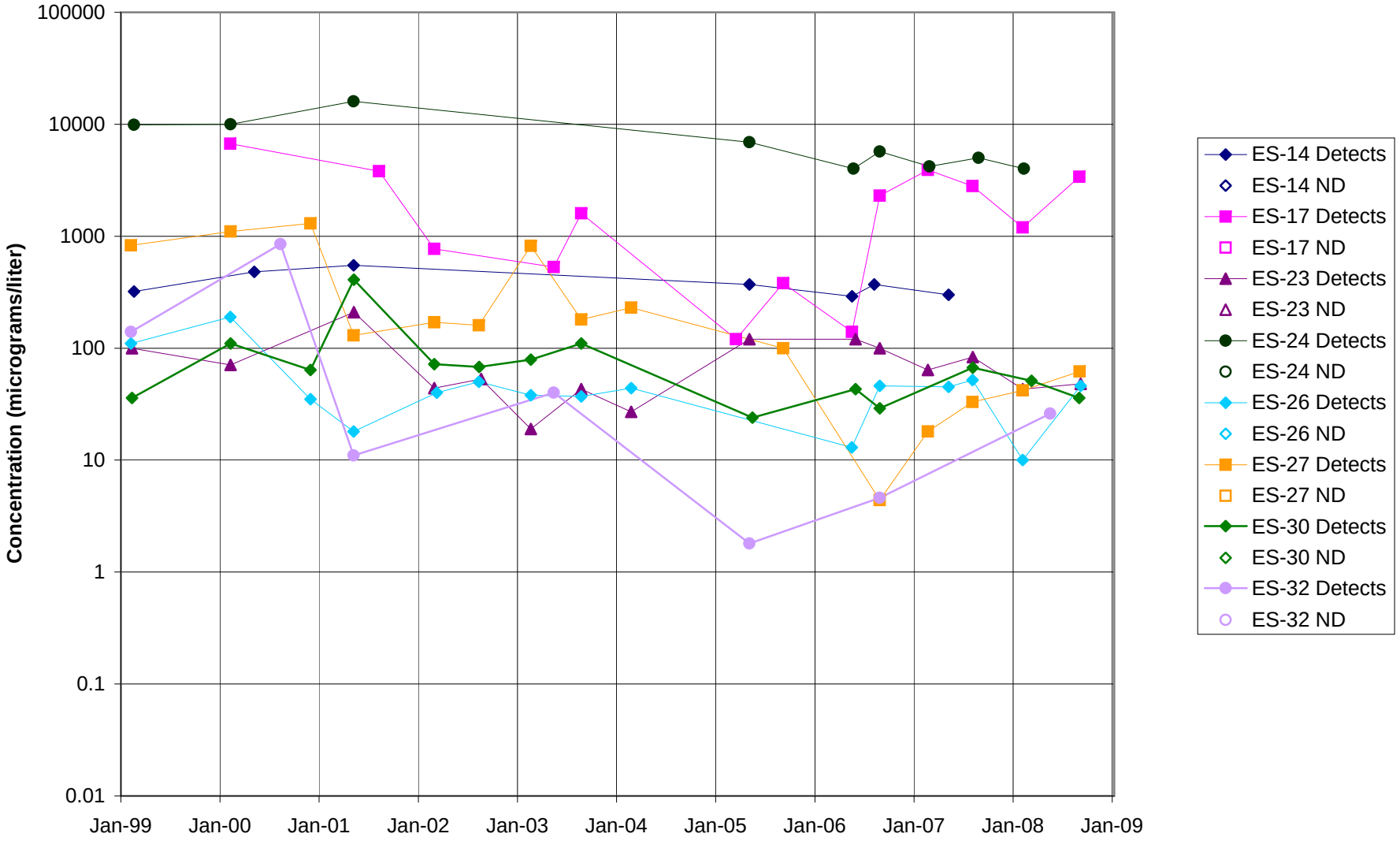


FIGURE F-338. TCE in STL-IV AREA CHATSWORTH FORMATION WELLS

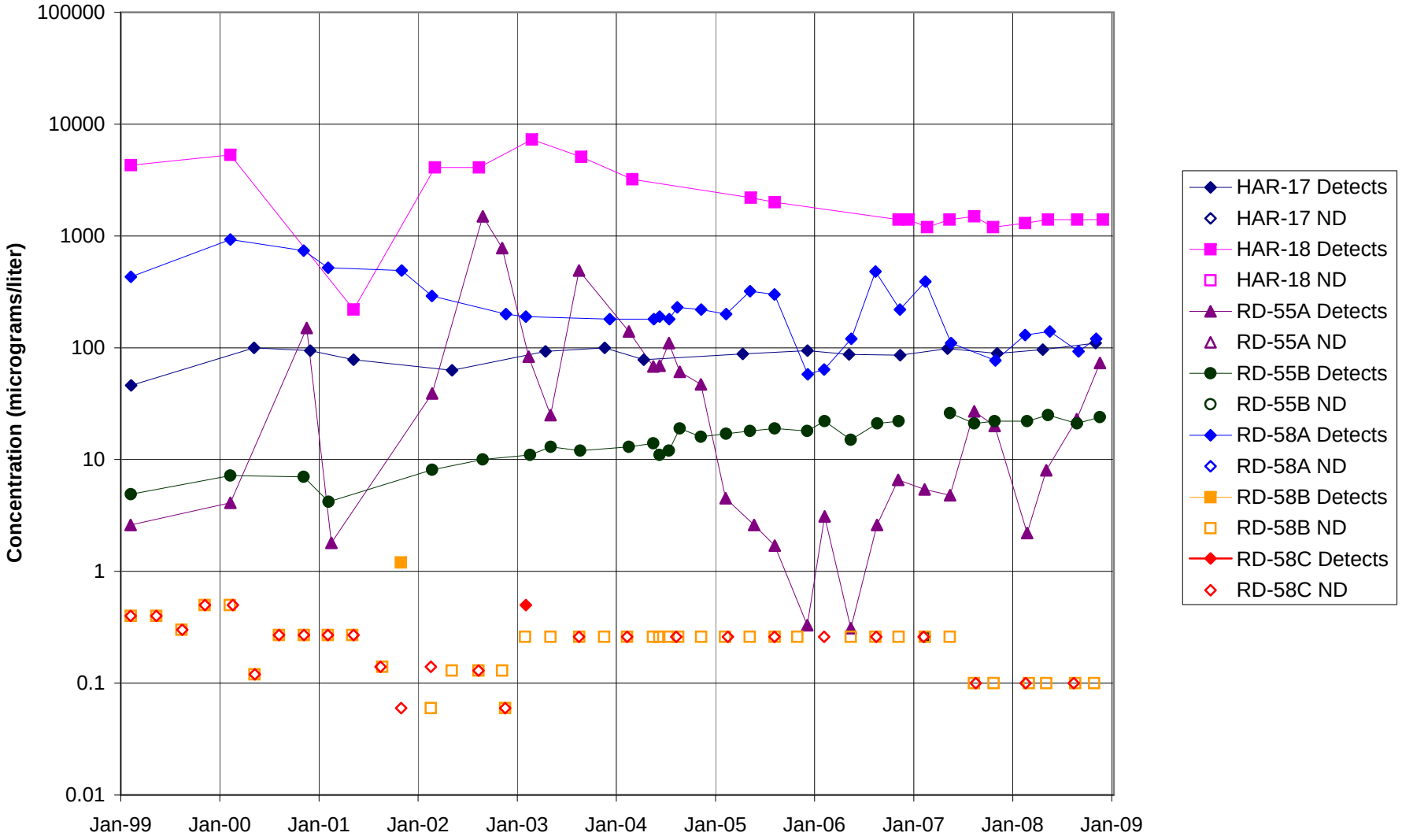


FIGURE F-339. TCE in MAIN GATE AREA WELLS - 1

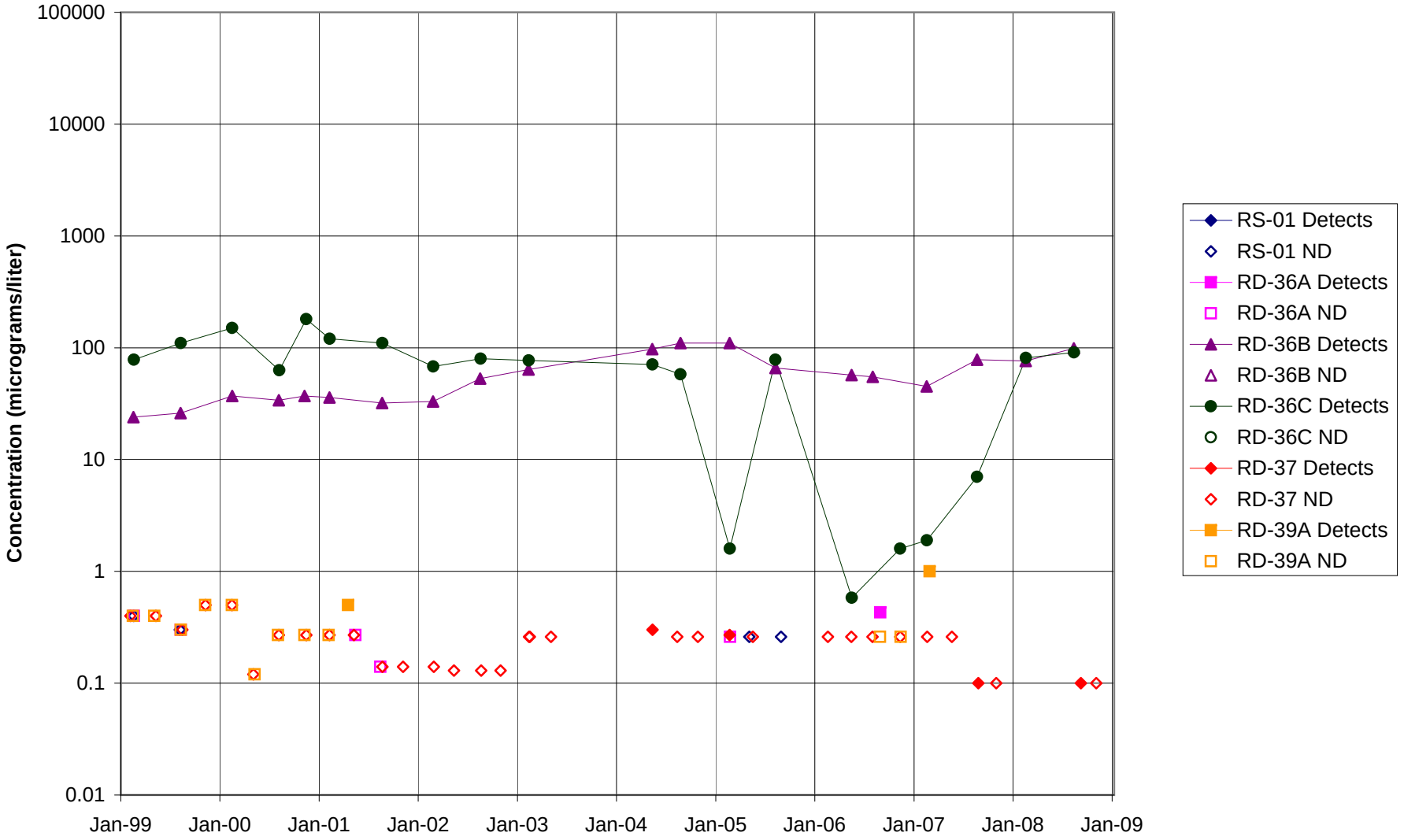


FIGURE F-340. TCE in MAIN GATE AREA WELLS - 2

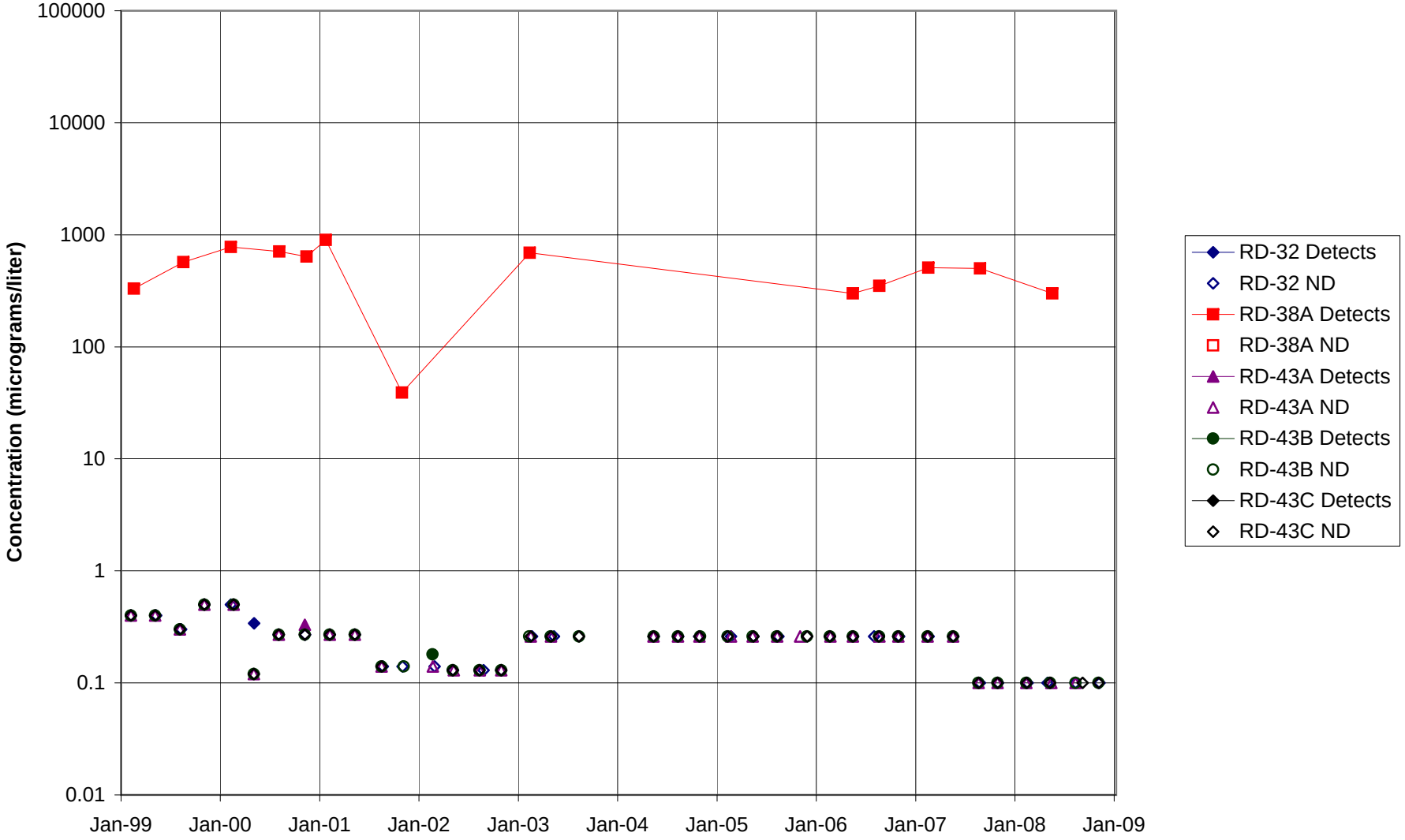


FIGURE F-341. TCE in APTF, CANYON, & HAPPY VALLEY AREA WELLS - 1

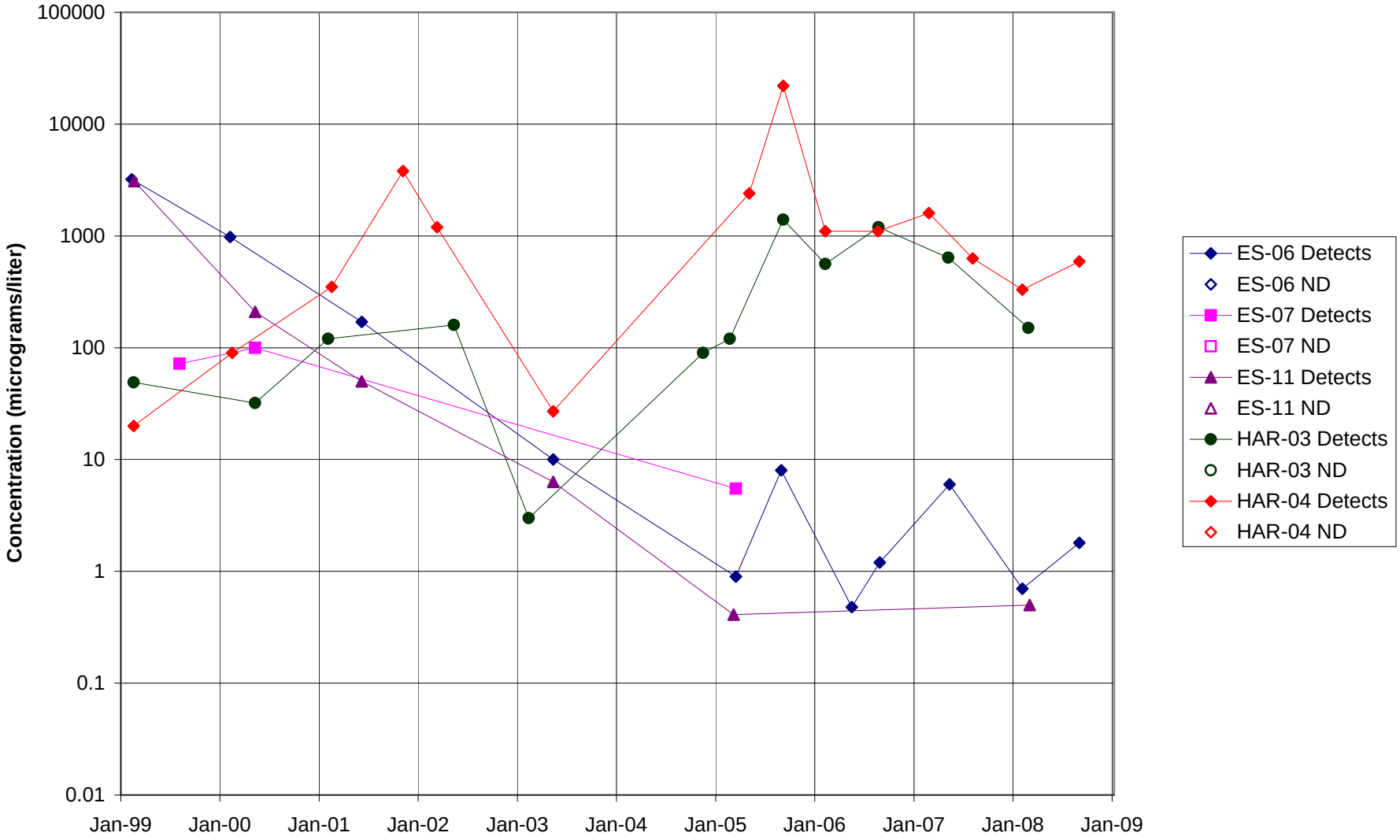


FIGURE F-342. TCE in APTF, CANYON, & HAPPY VALLEY AREA WELLS - 2

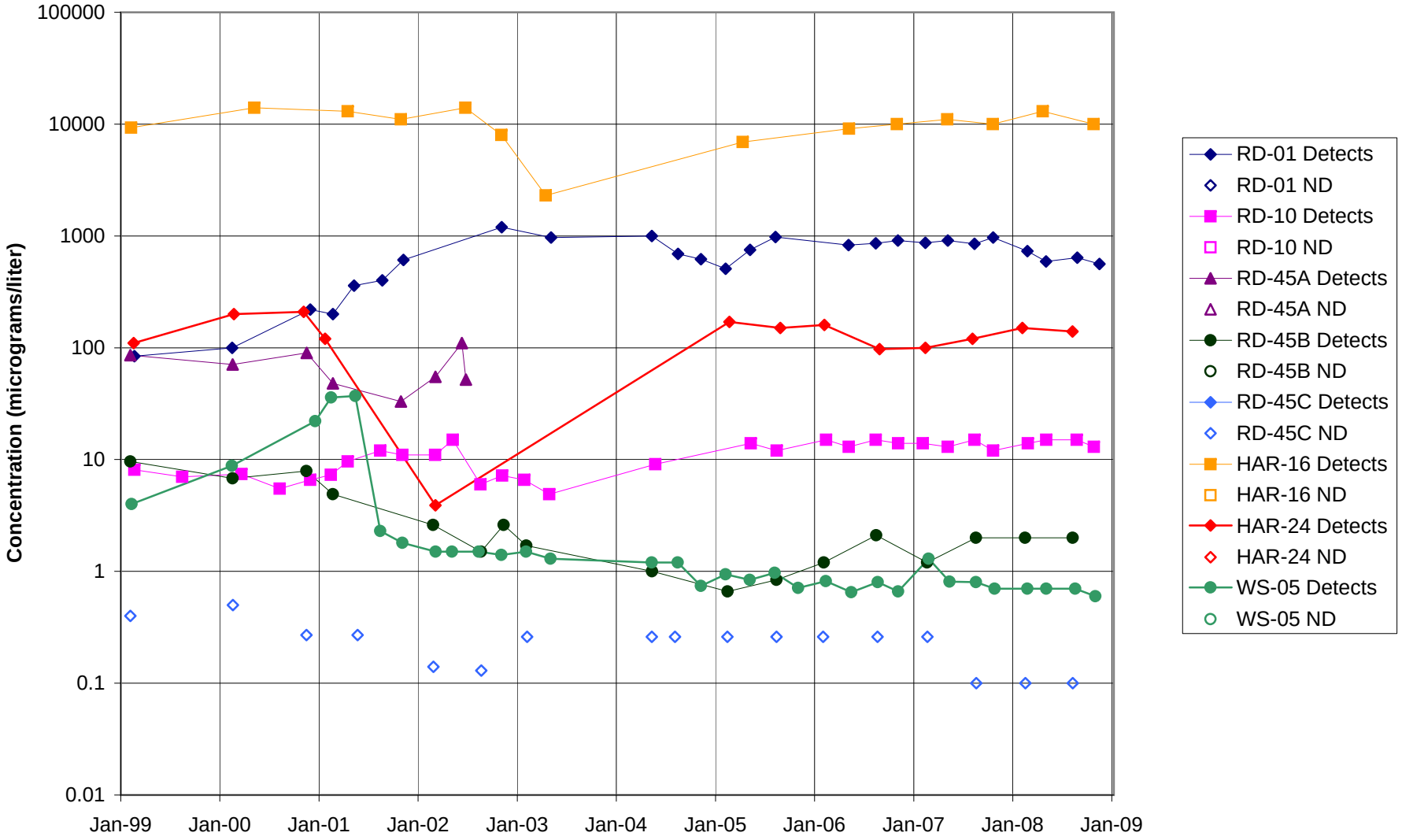


FIGURE F-343. TCE in CTL-III / PERIMETER POND AREA WELLS

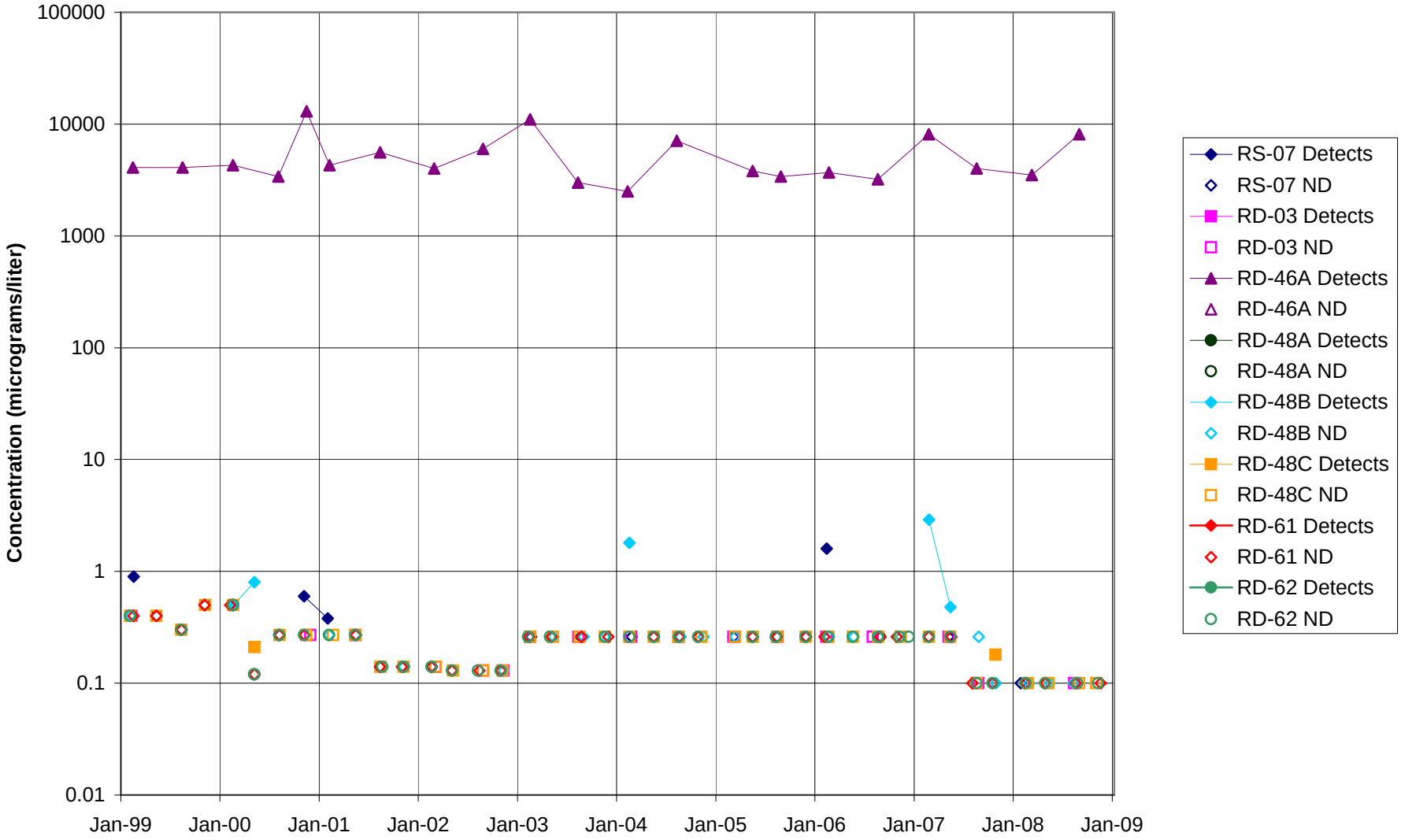


FIGURE F-344. TCE in BOWL AREA WELLS

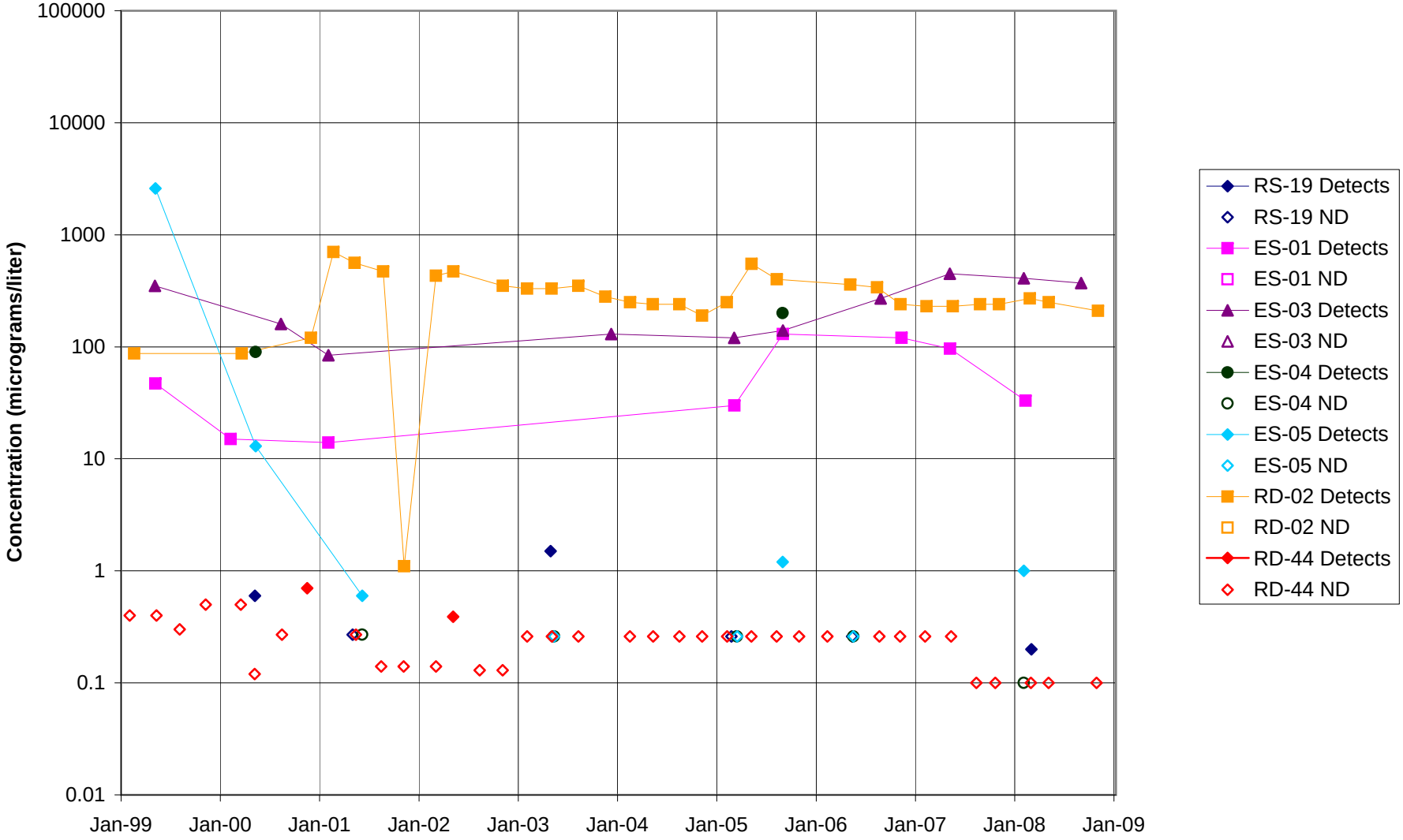


FIGURE F-345. TCE in ECL AREA WELLS

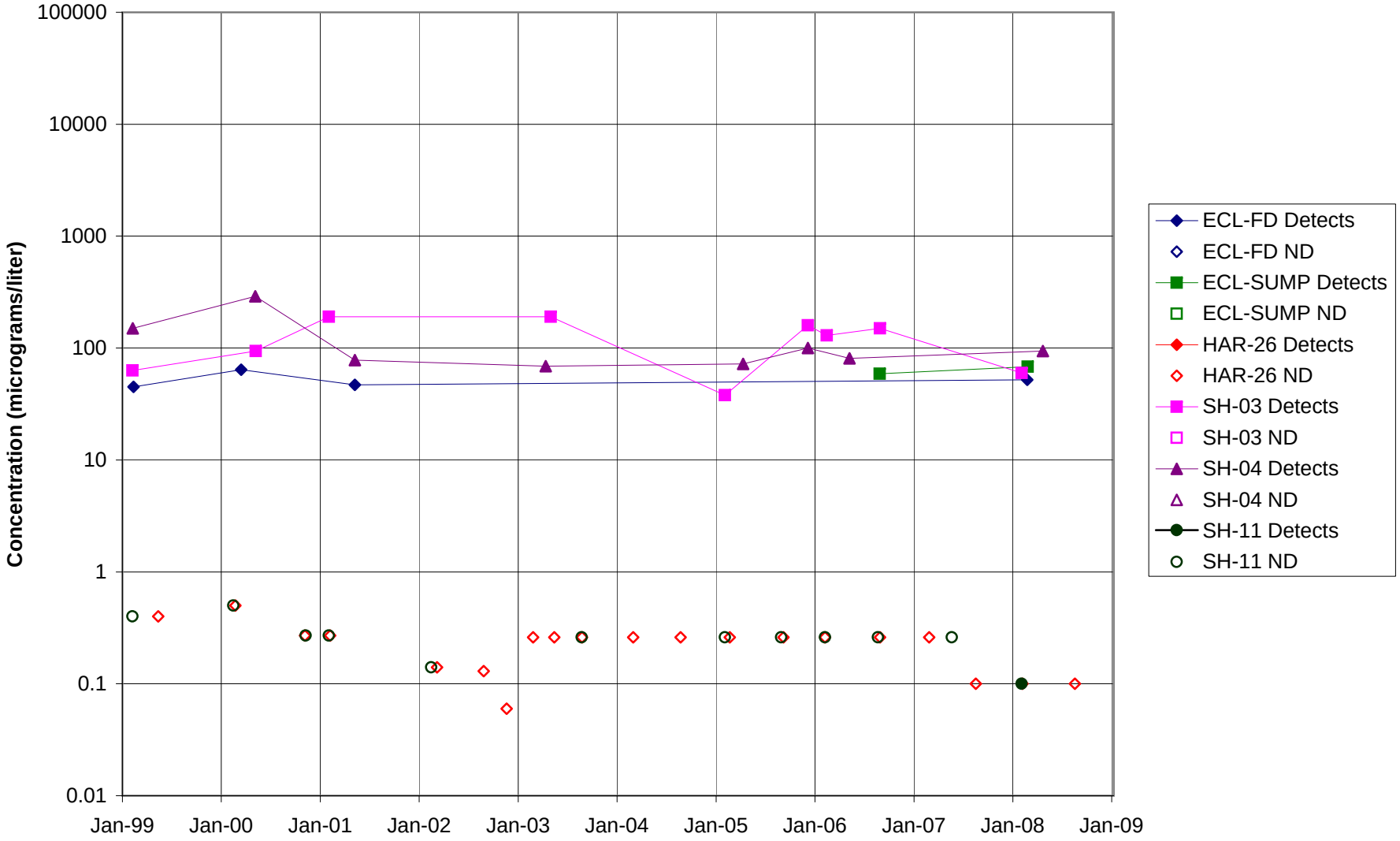


FIGURE F-346. TCE in FORMER LOX PLANT AREA WELLS

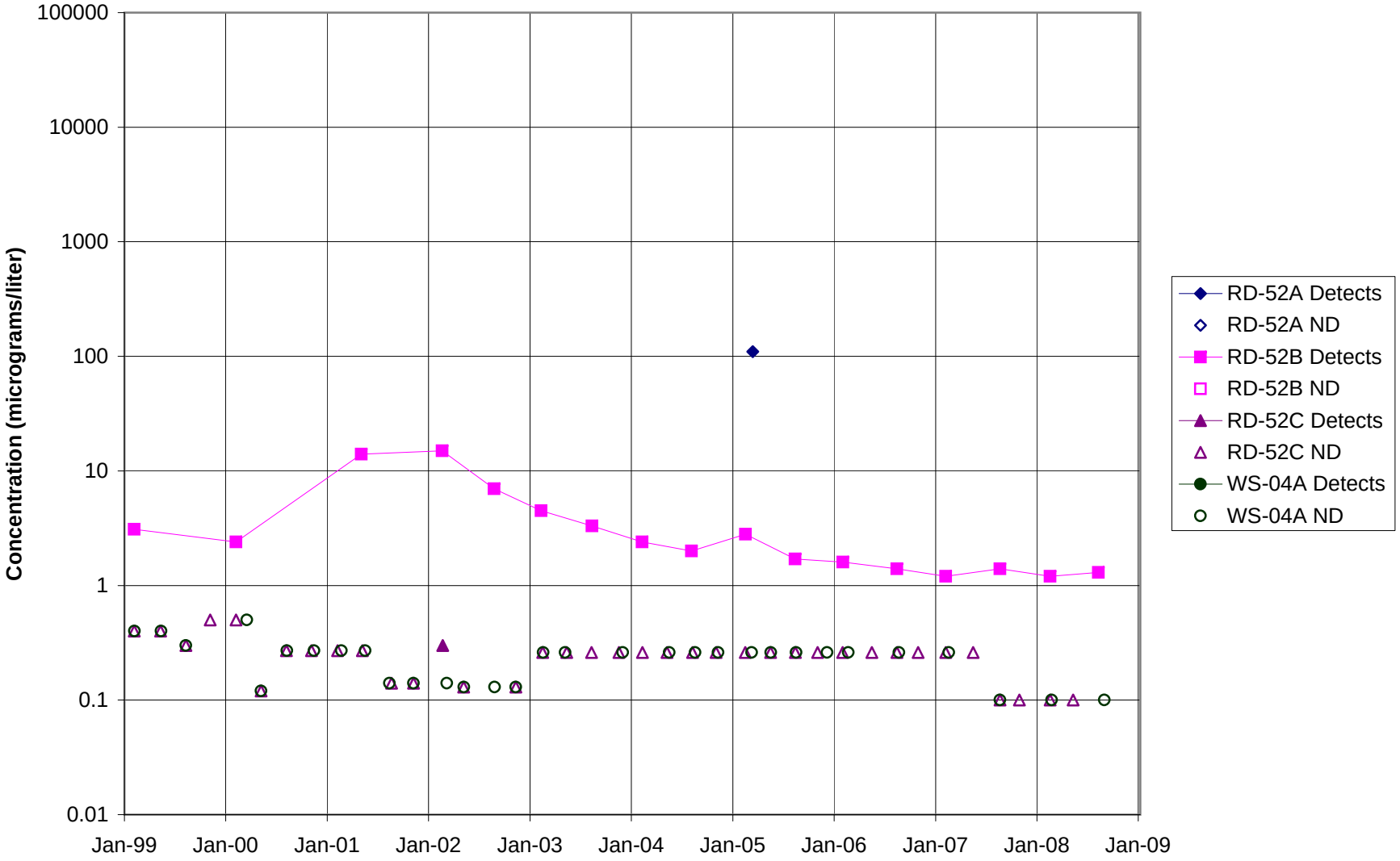


FIGURE F-347. TCE in RD-09 AREA WELLS

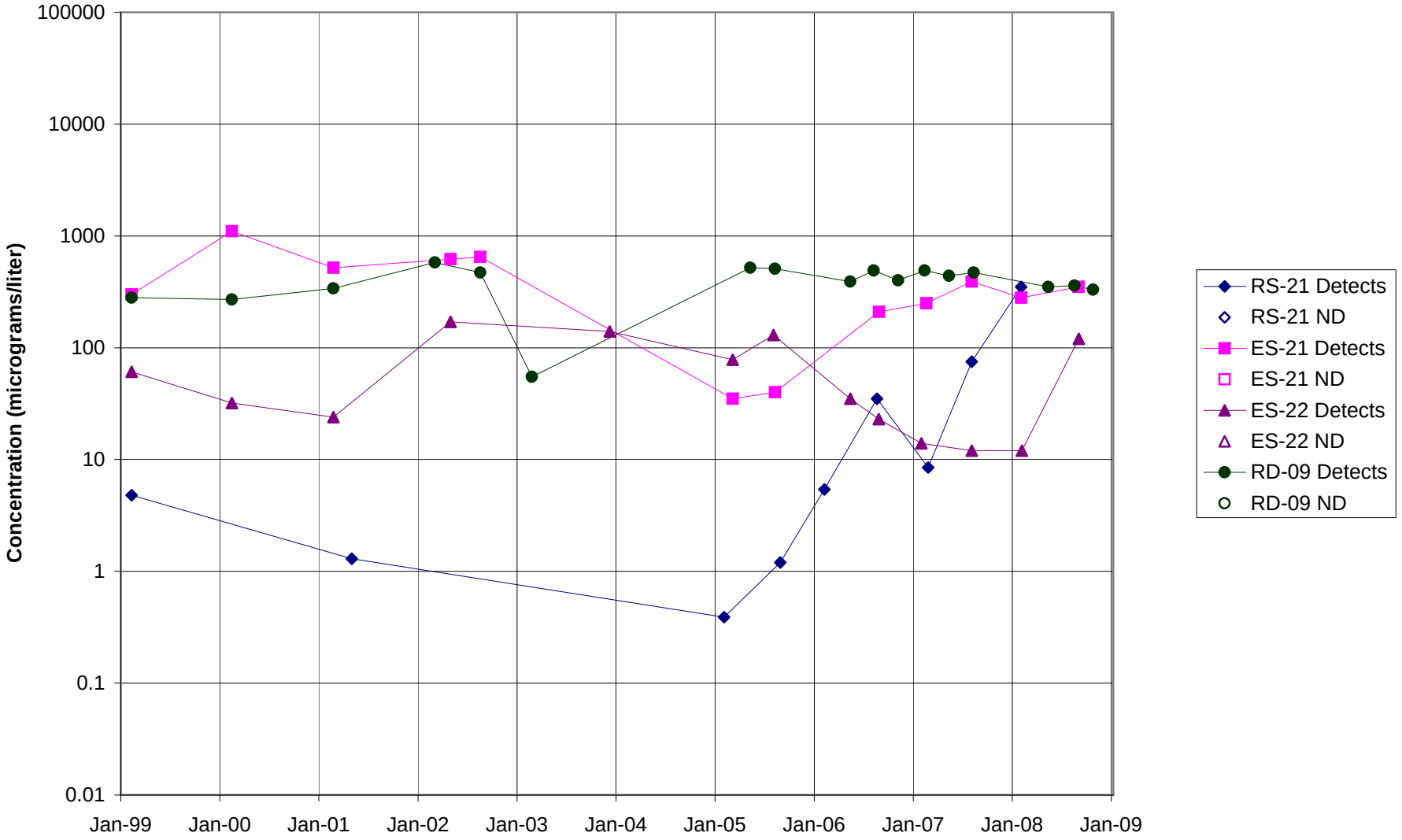


FIGURE F-348. TCE in HELIPORT, B/204 AREA WELLS

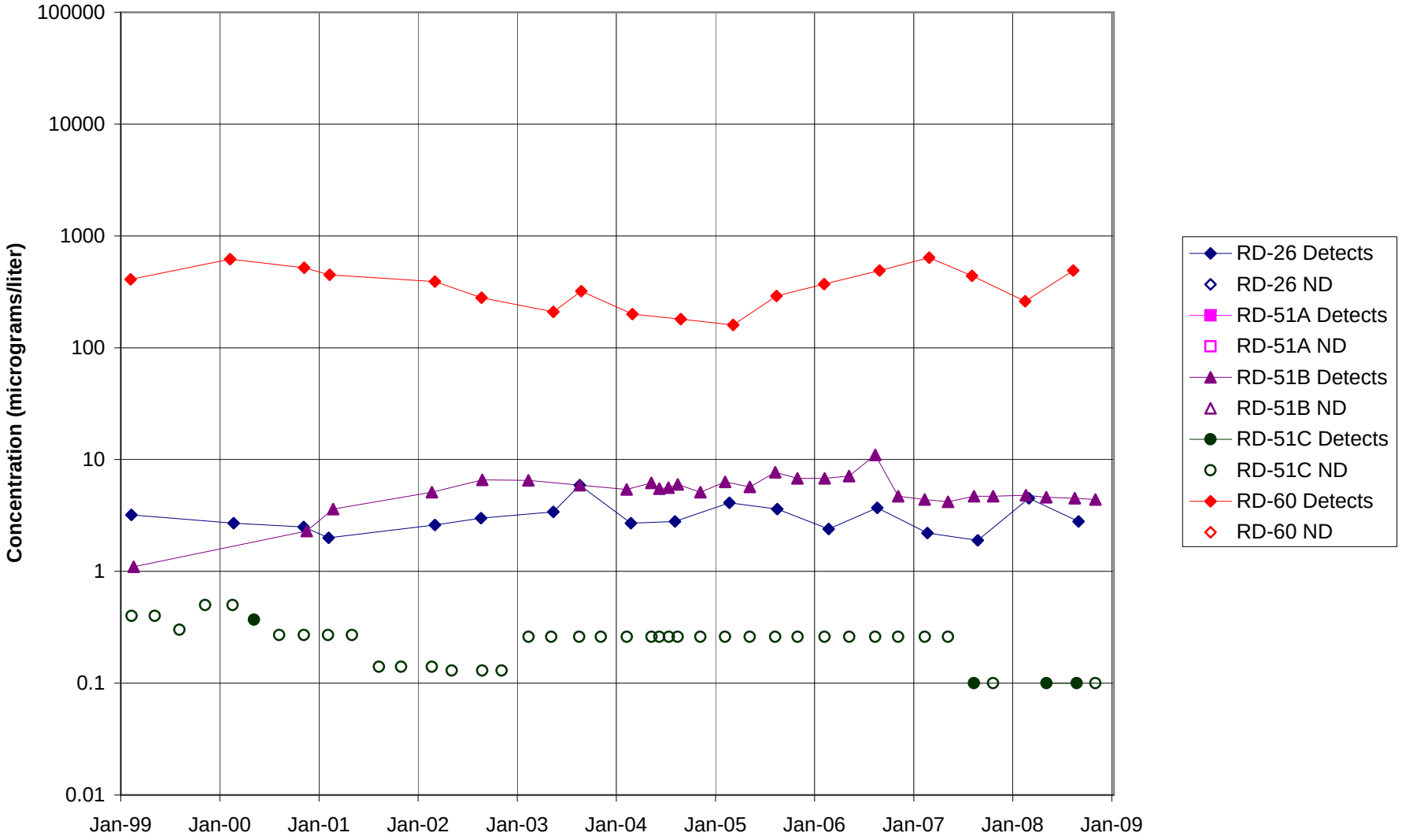


FIGURE F-349. TCE in ALFA / BRAVO AREA WELLS

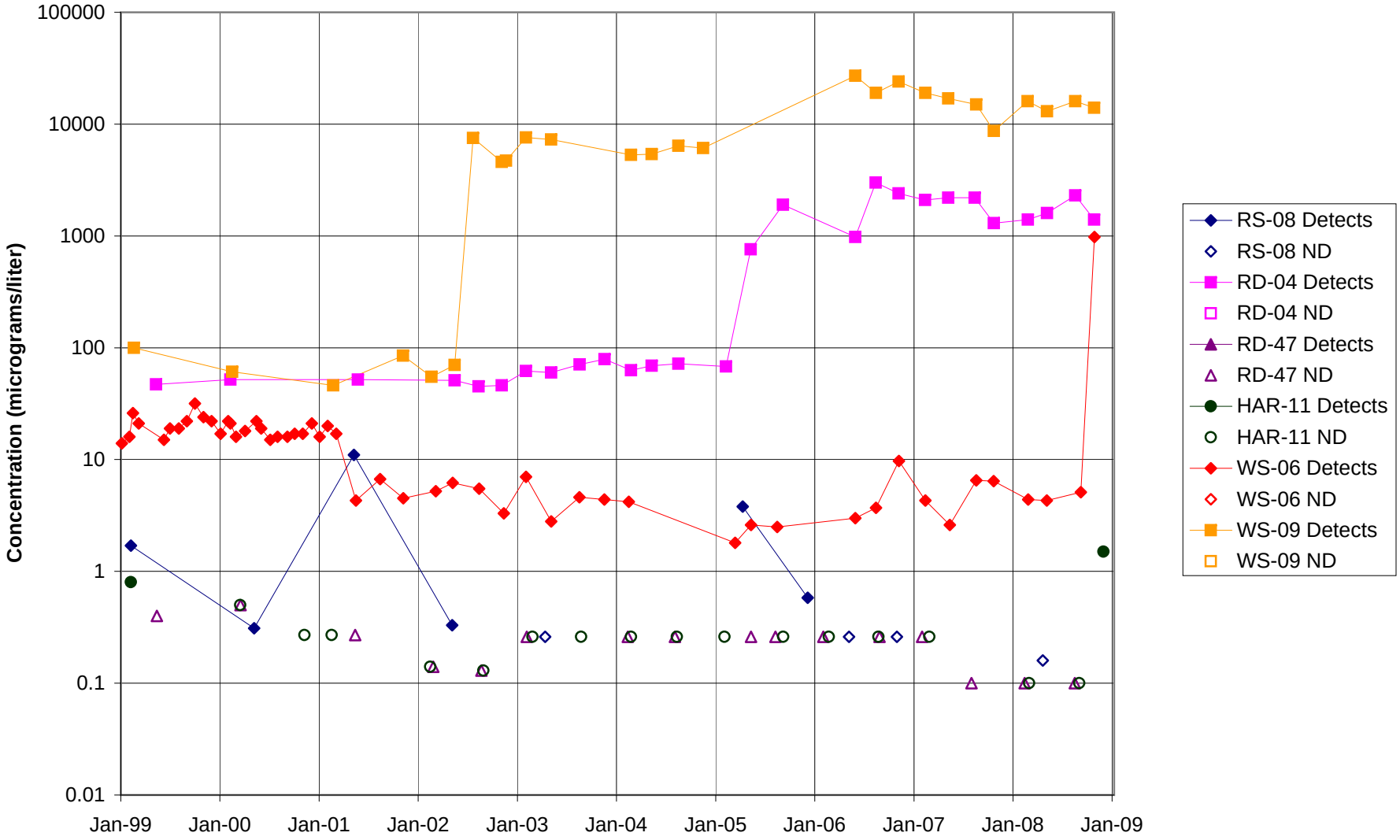


FIGURE F-350. TCE in SPA AREA WELLS

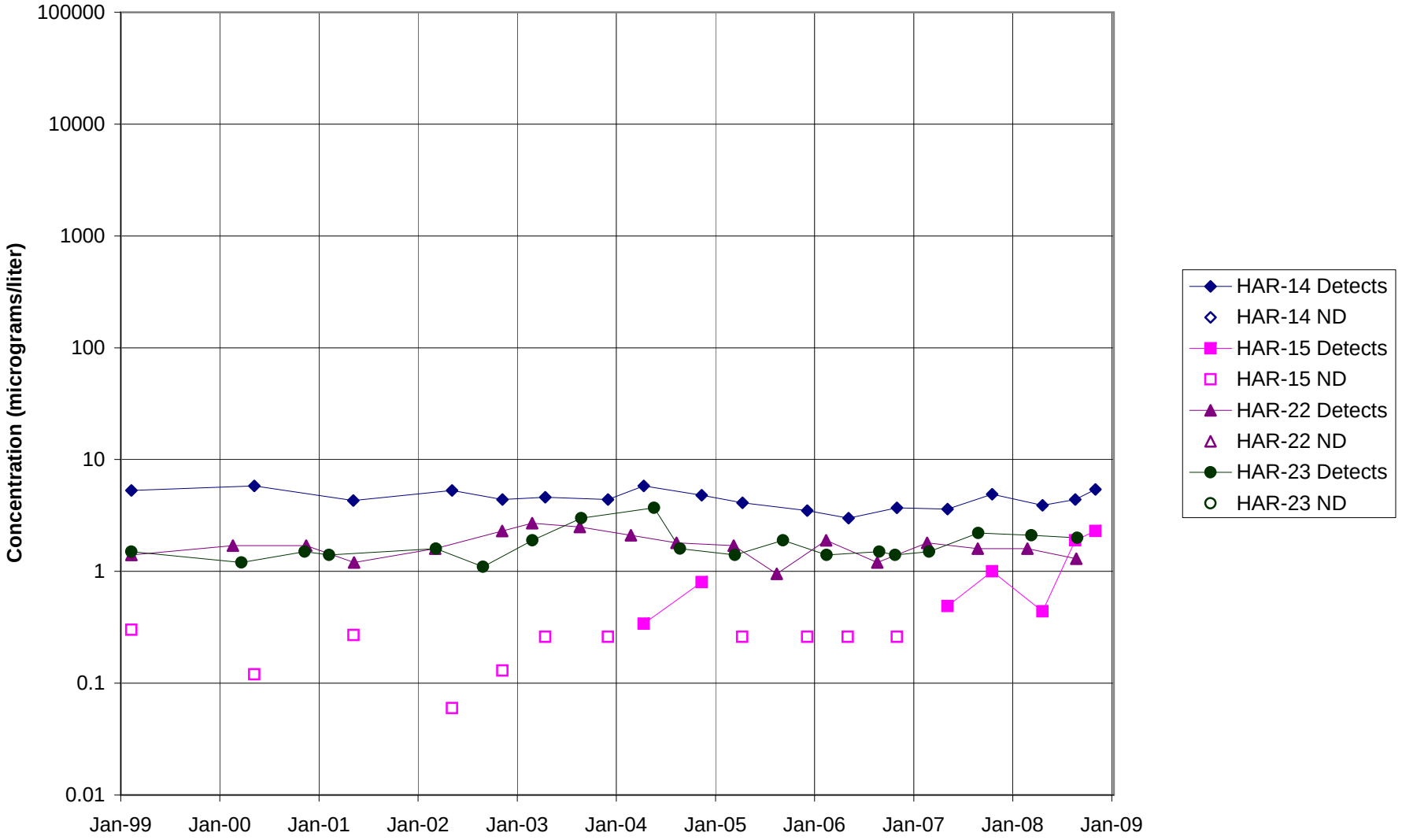


FIGURE F-351. TCE in COCA / PLF AREA WELLS

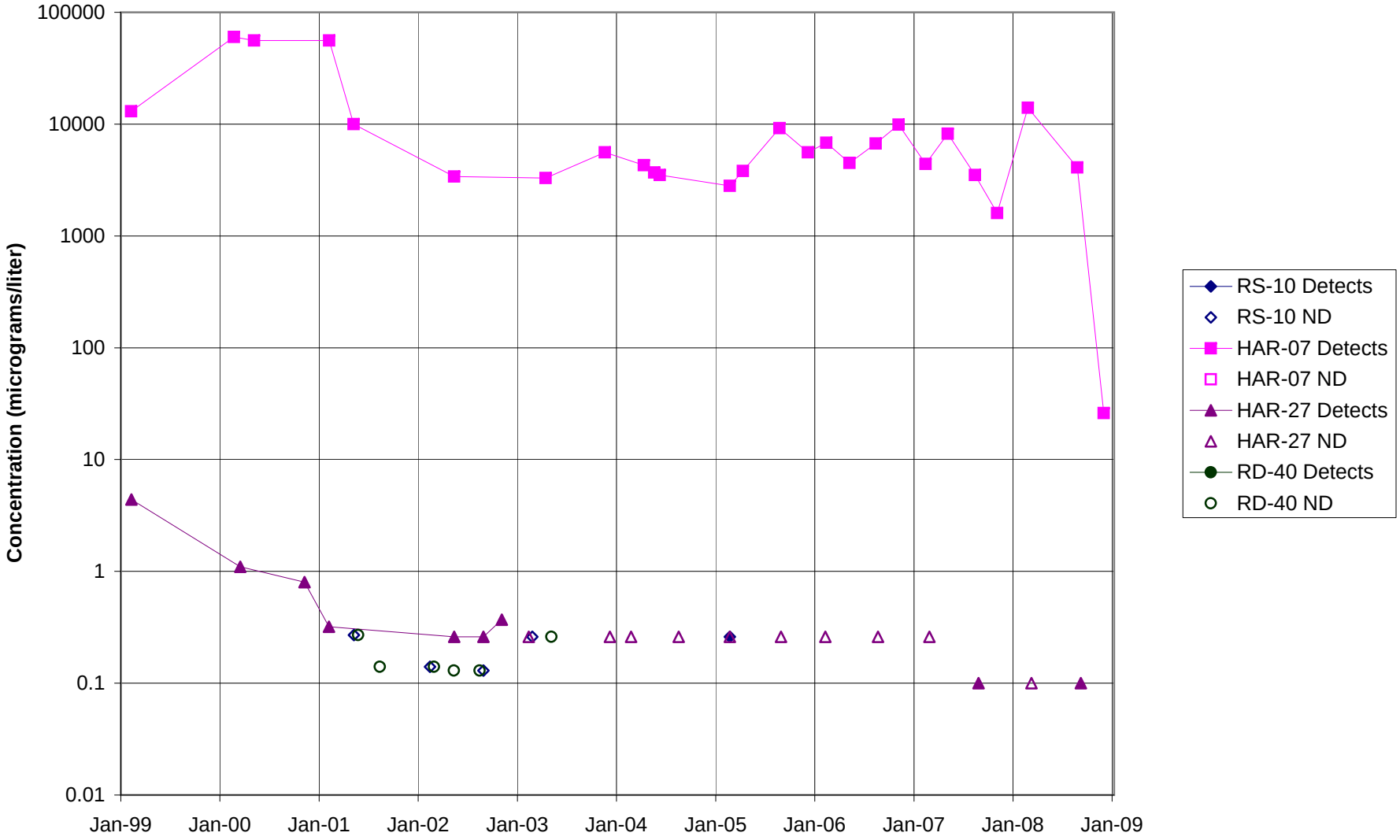


FIGURE F-352. TCE in DELTA / BUFFER ZONE AREA WELLS

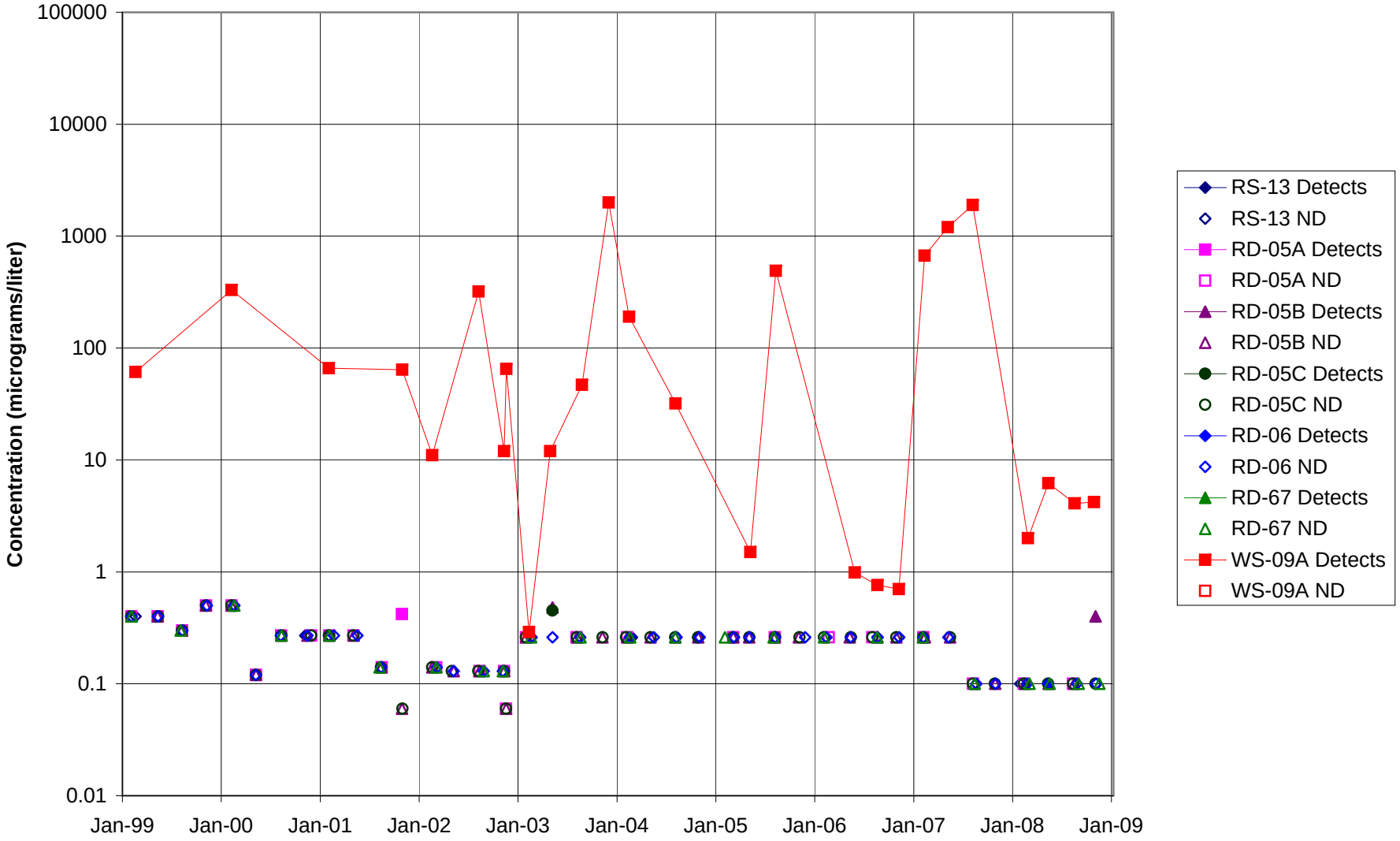


FIGURE F-353. TCE in AREA IV WELLS

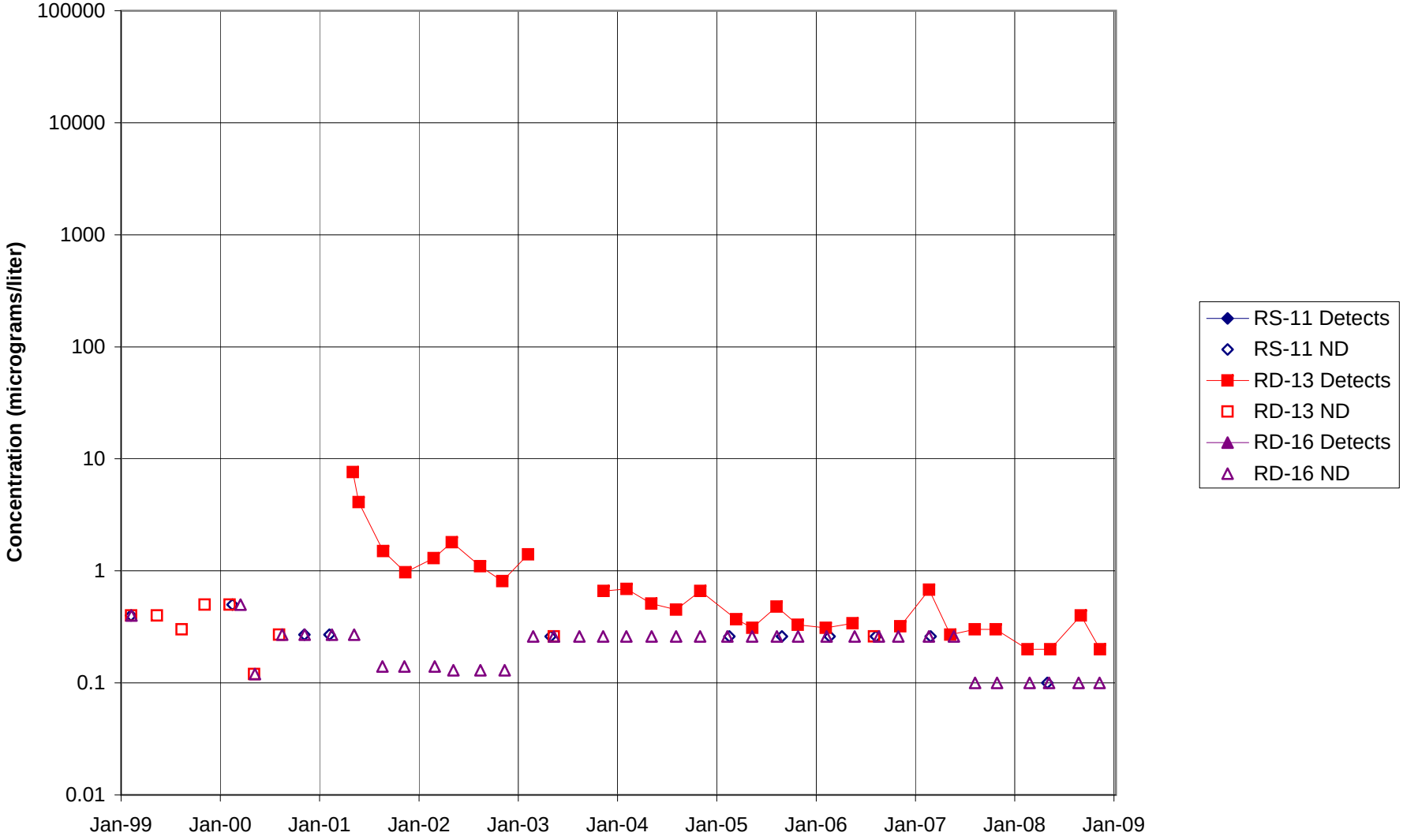


FIGURE F-354. VINYL CHLORIDE in STL-IV AREA SHALLOW WELLS

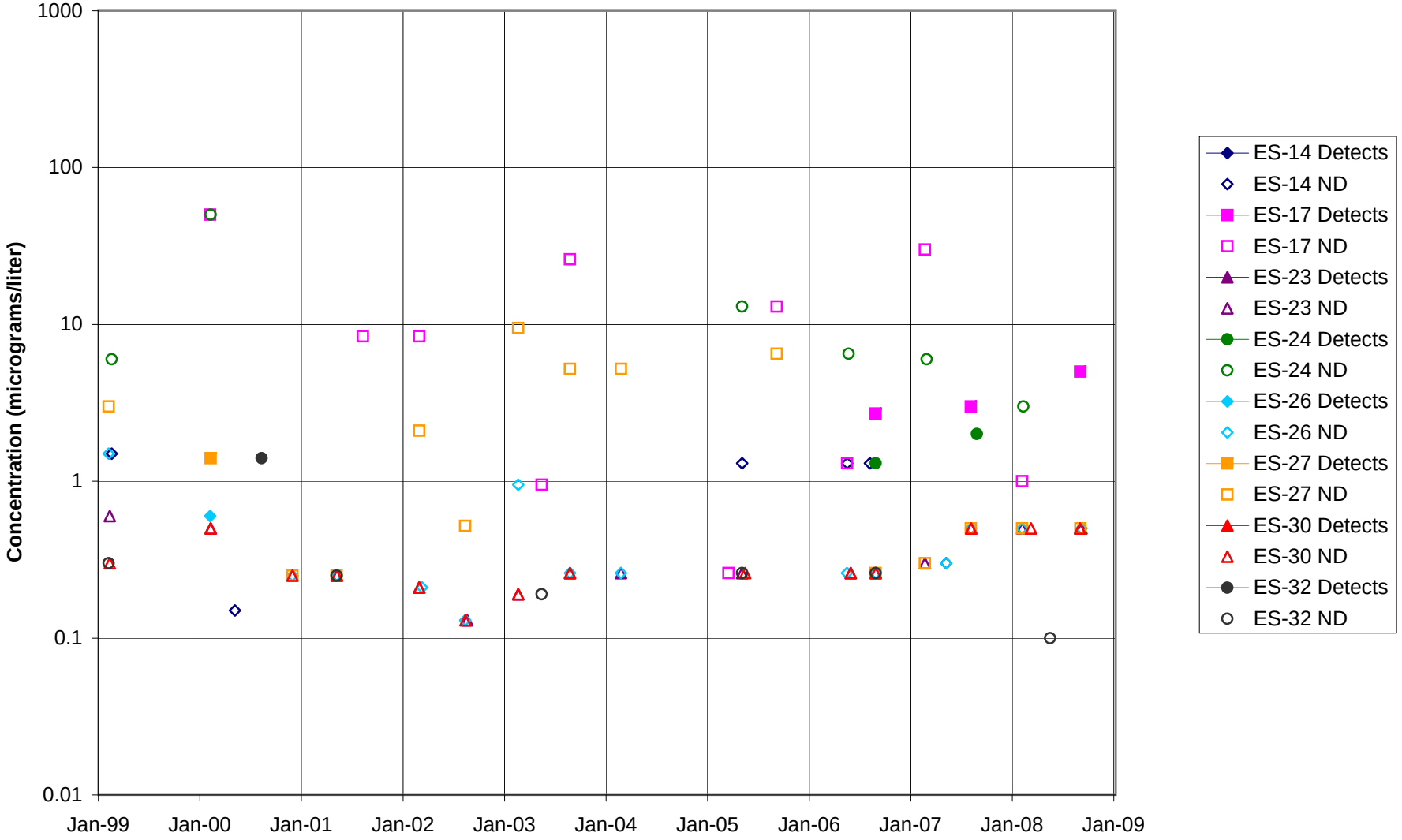


FIGURE F-355. VINYL CHLORIDE in STL-IV AREA CHATSWORTH FORMATION WELLS

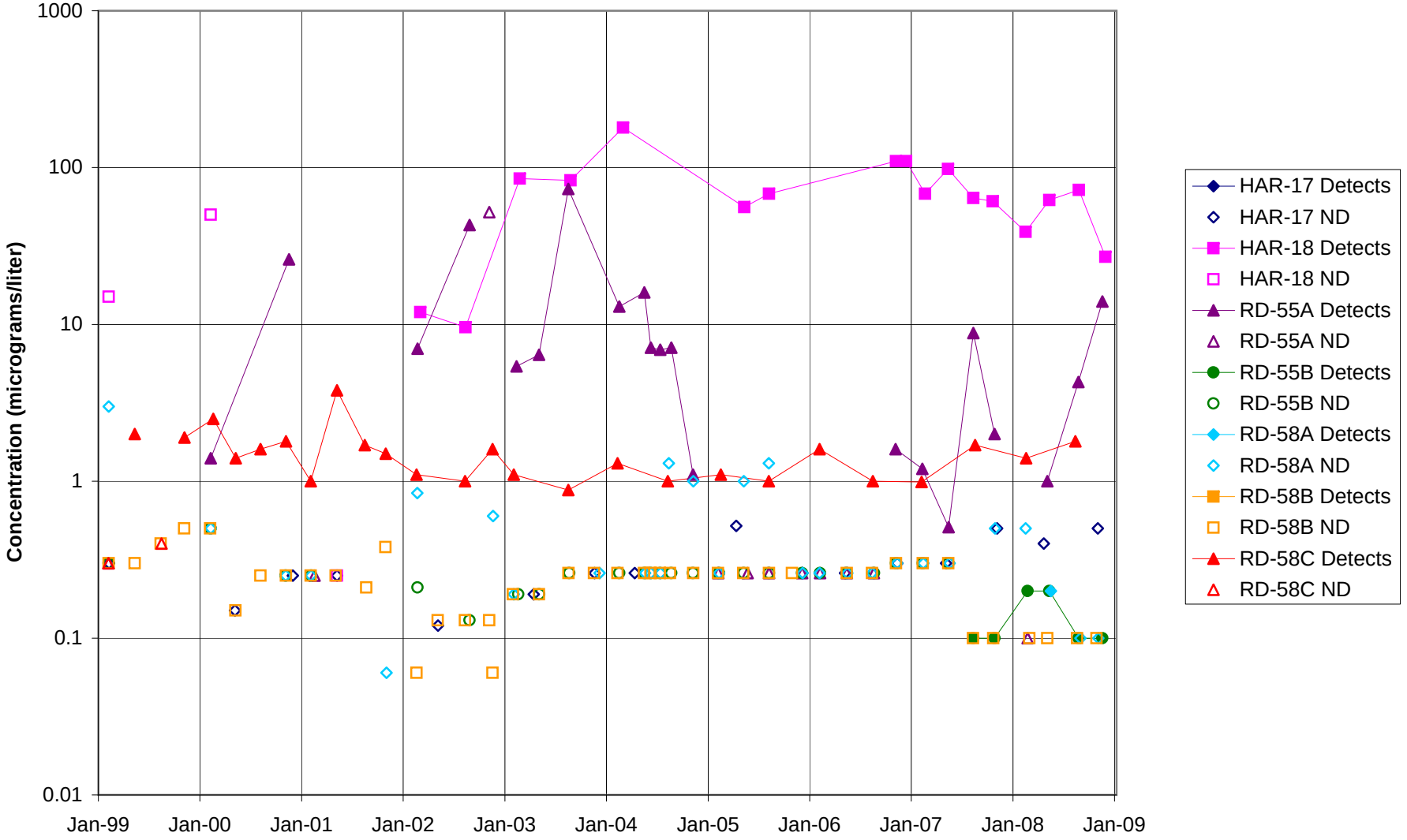


FIGURE F-356. VINYL CHLORIDE in MAIN GATE AREA WELLS - 1

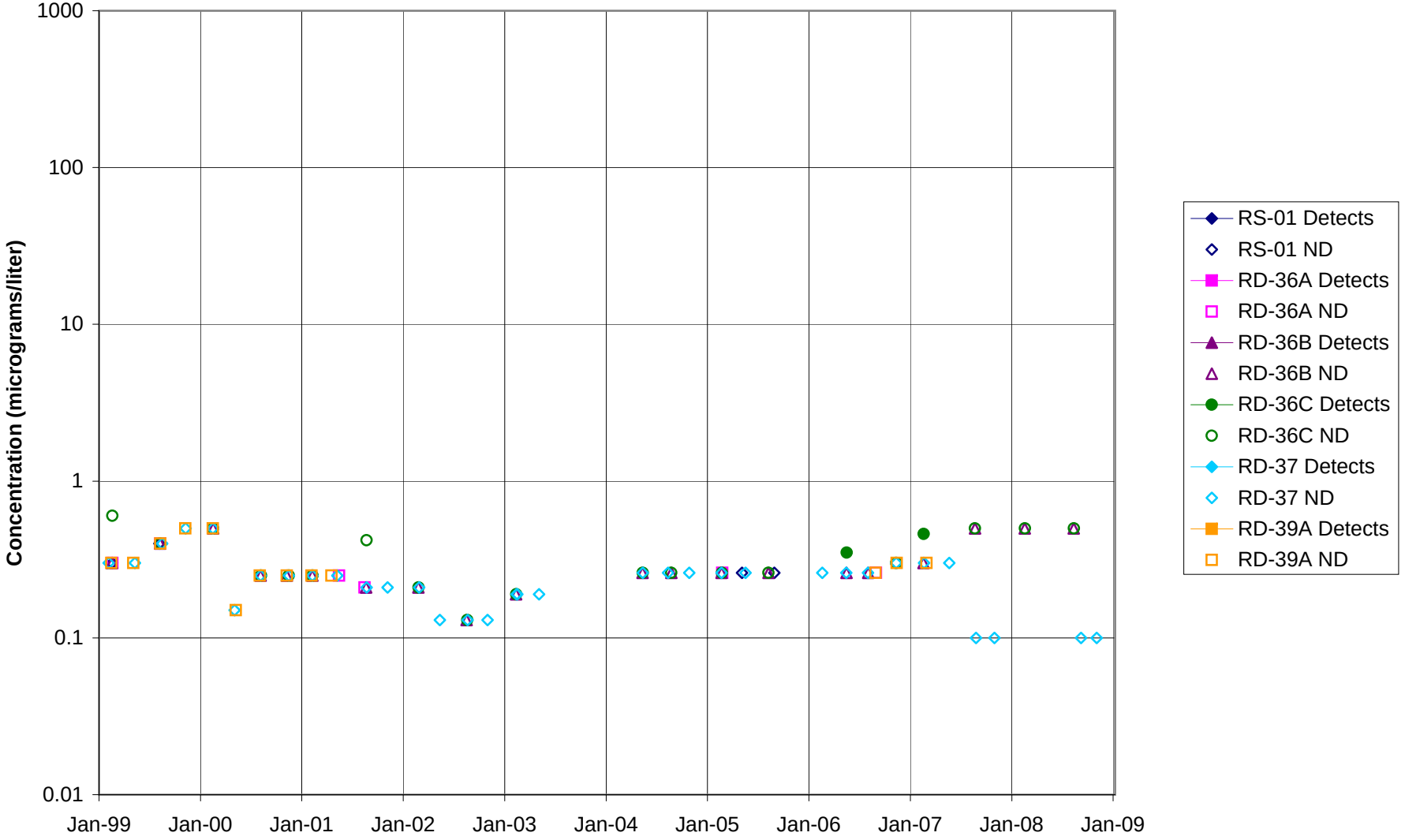


FIGURE F-357. VINYL CHLORIDE in MAIN GATE AREA WELLS - 2

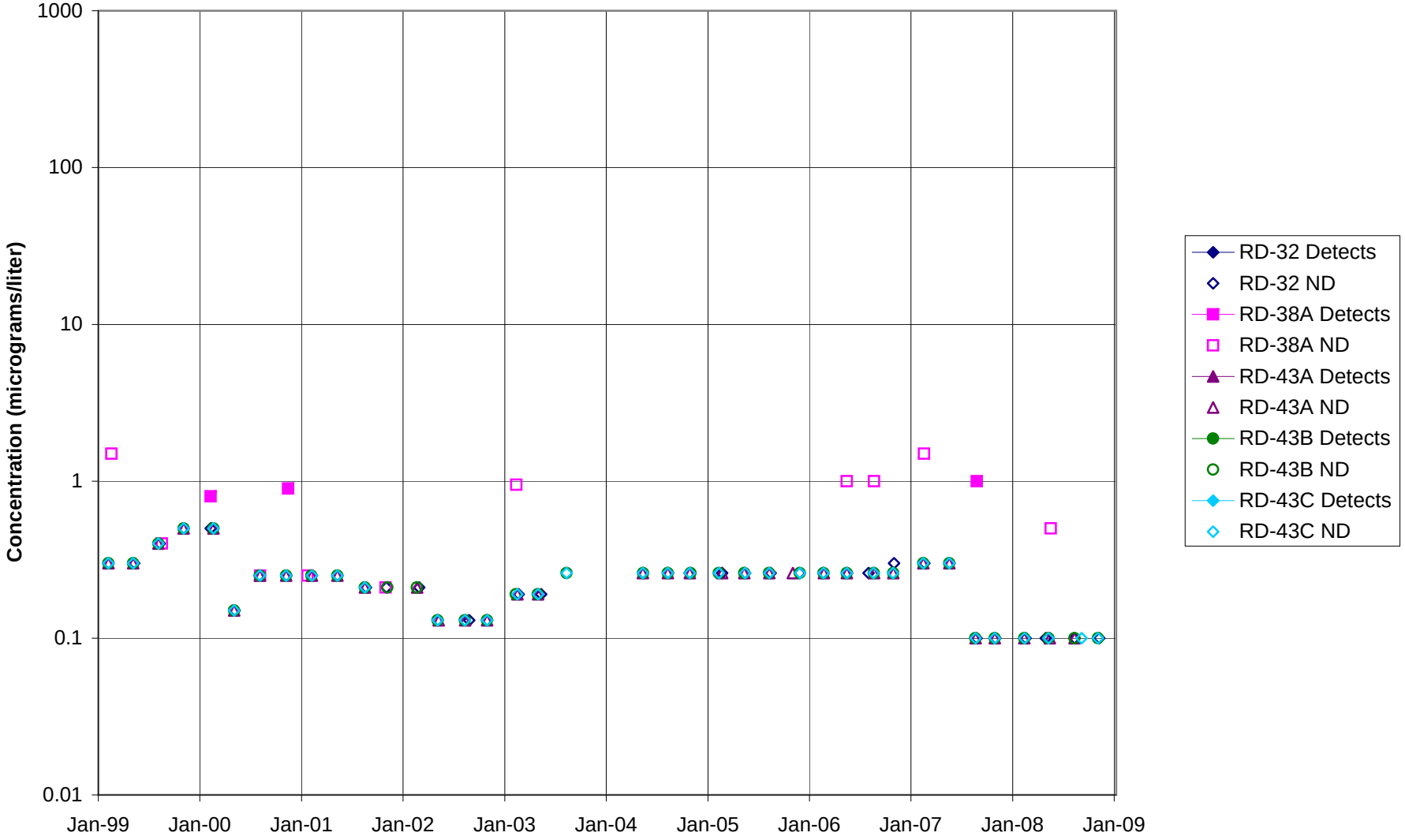


FIGURE F-358. VINYL CHLORIDE in APTF, CANYON, & HAPPY VALLEY WELLS - 1

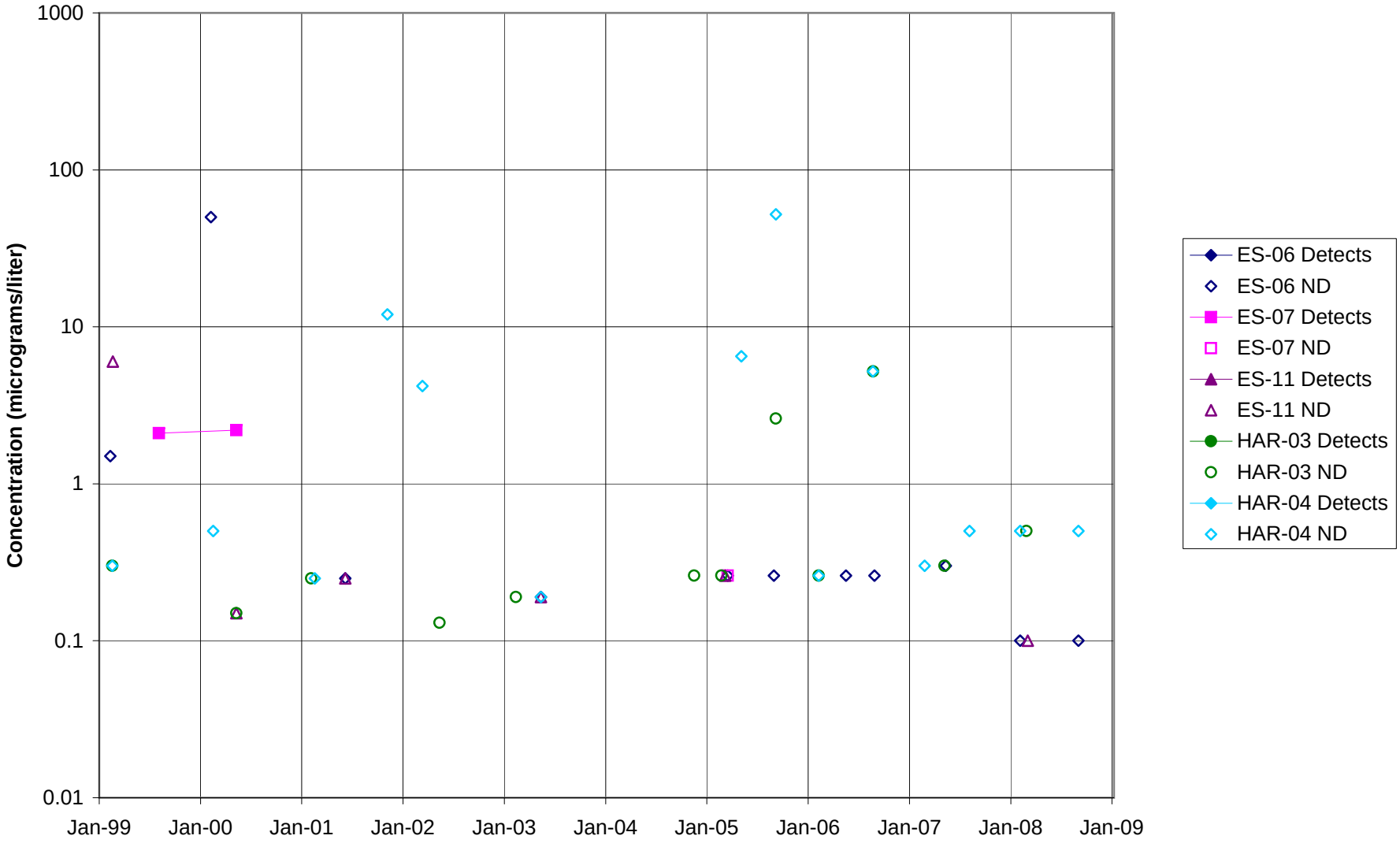


FIGURE F-359. VINYL CHLORIDE in APTF, CANYON, & HAPPY VALLEY WELLS - 2

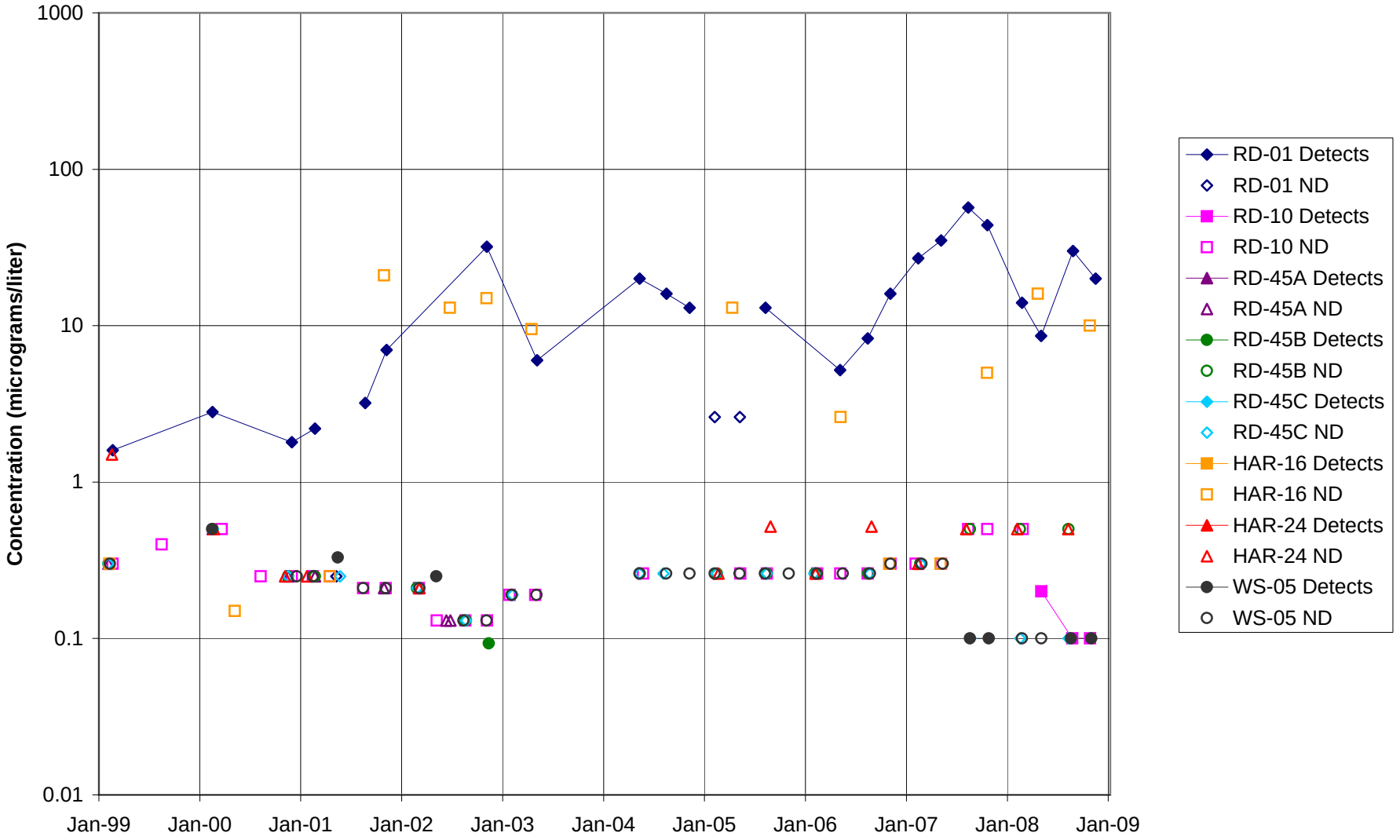


FIGURE F-360. VINYL CHLORIDE in CTL-III / PERIMETER POND AREA WELLS

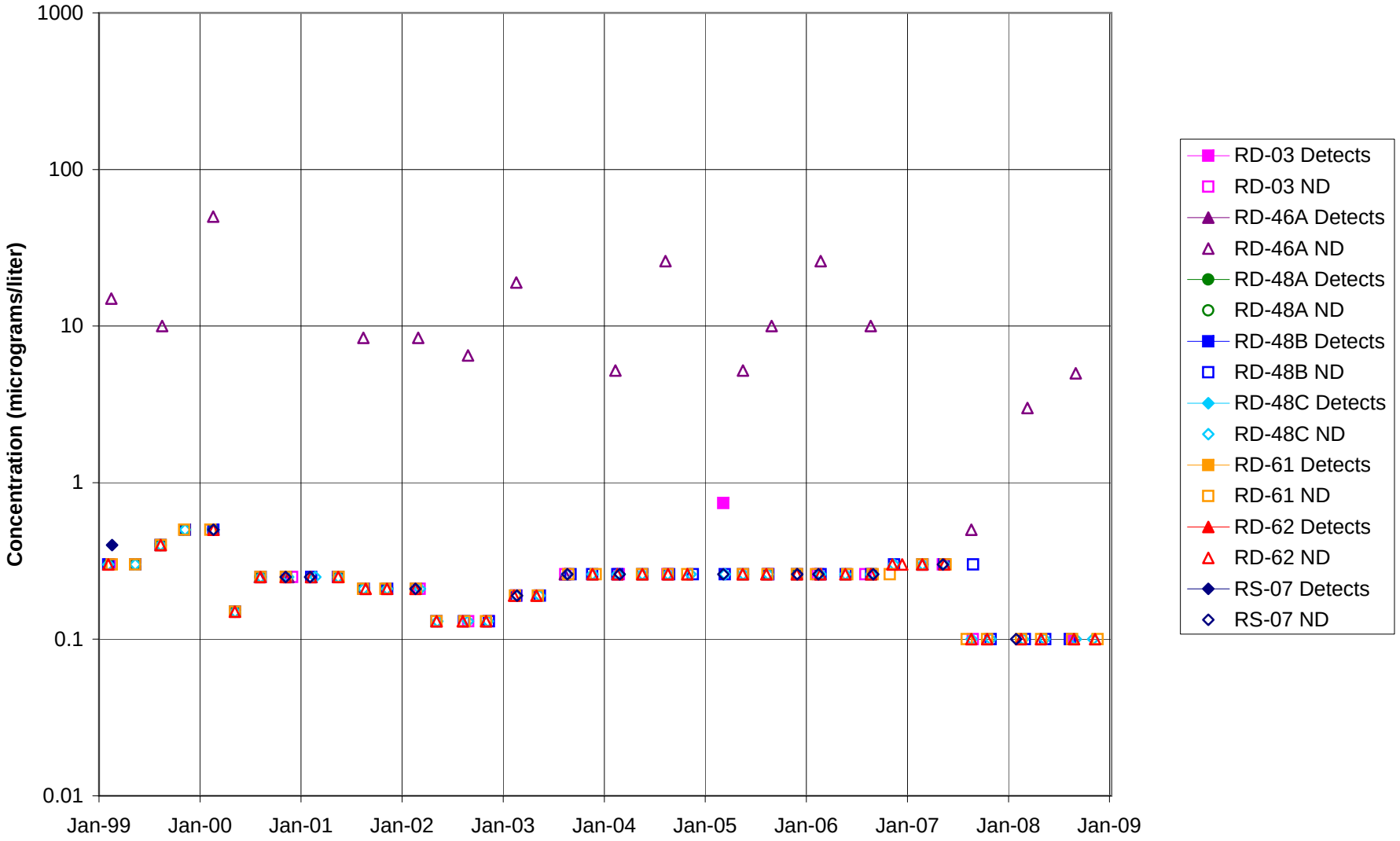


FIGURE F-361. VINYL CHLORIDE in BOWL AREA WELLS

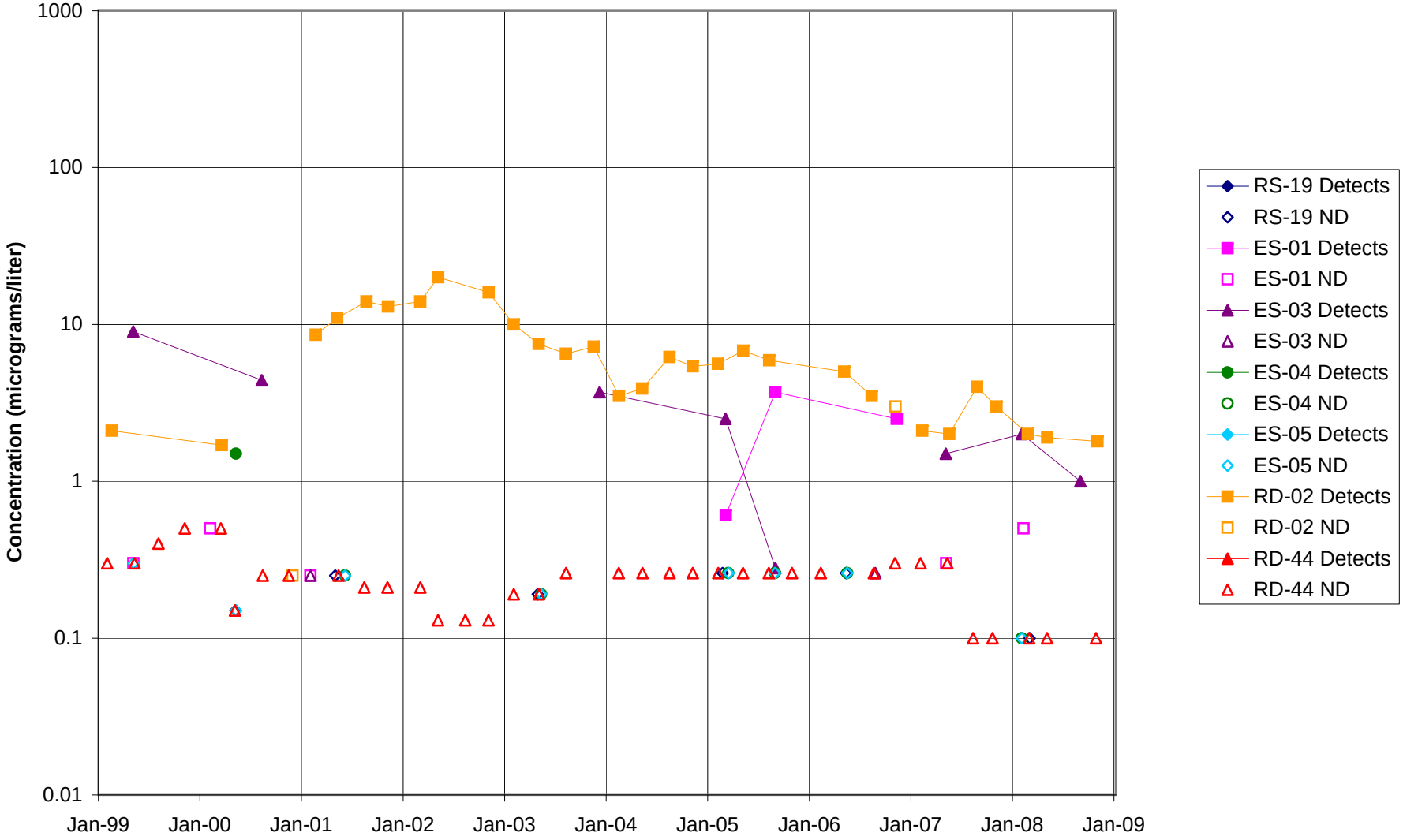


FIGURE F-362. VINYL CHLORIDE in ECL AREA WELLS

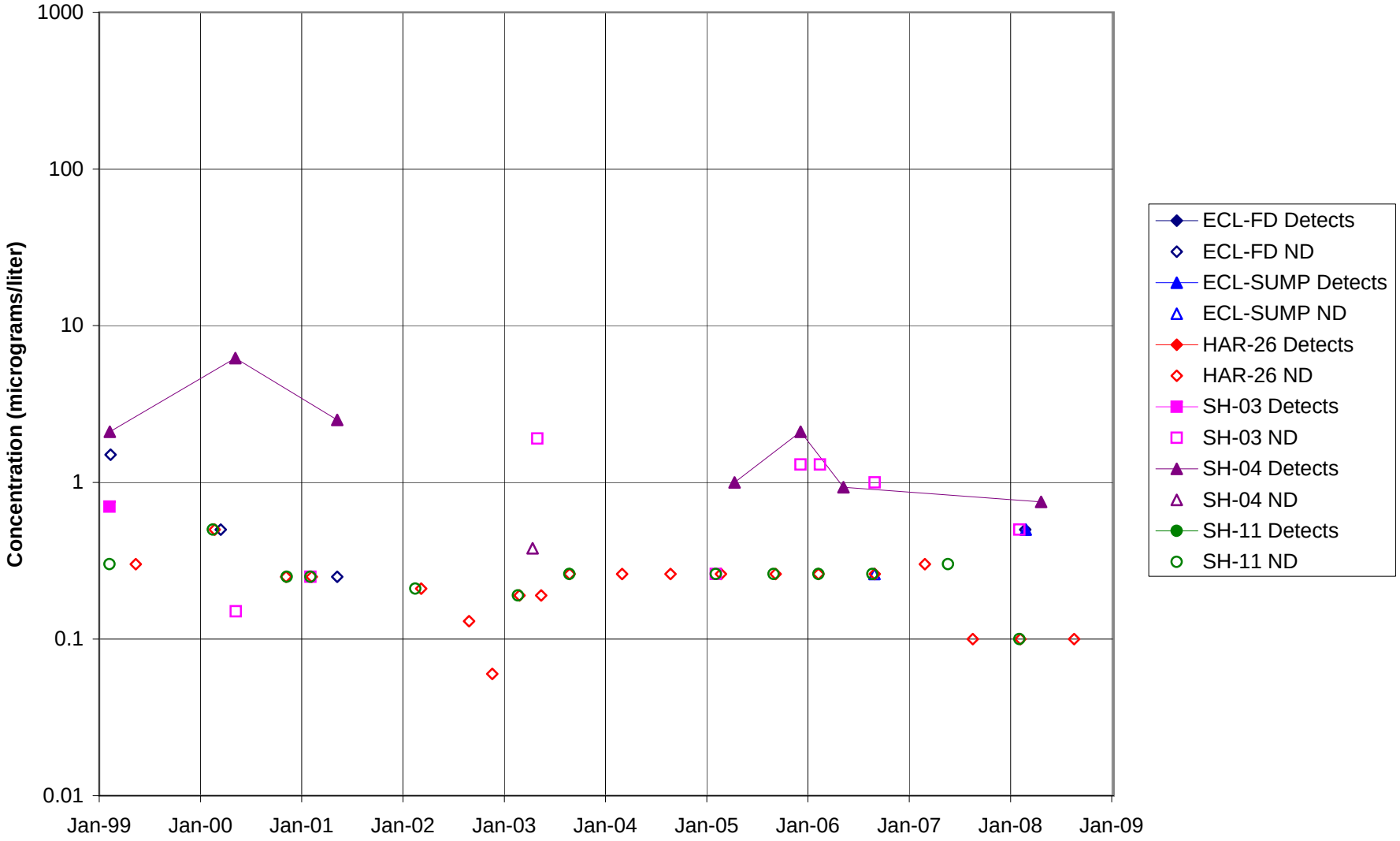


FIGURE F-363. VINYL CHLORIDE in FORMER LOX PLANT AREA WELLS

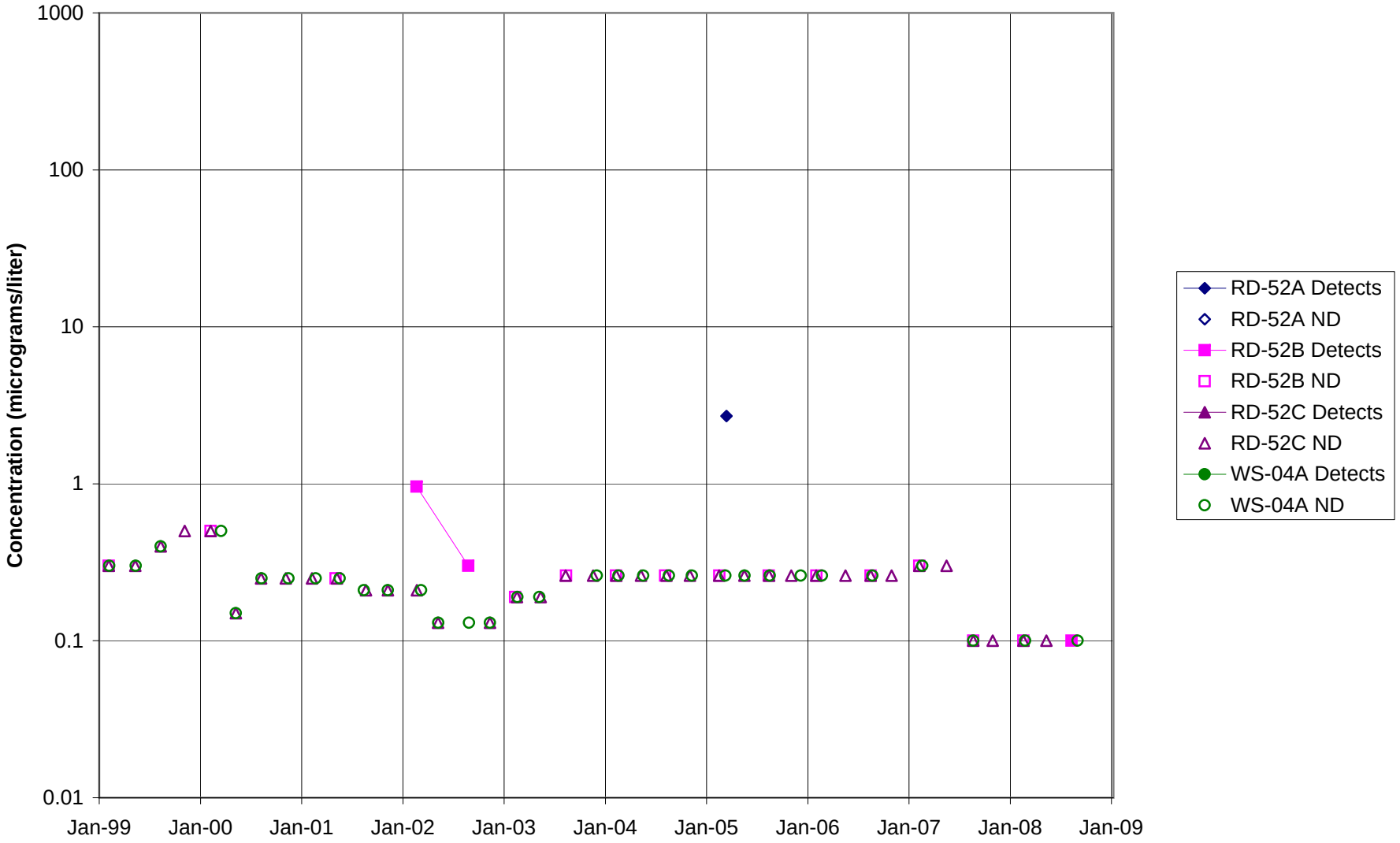


FIGURE F-364. VINYL CHLORIDE in RD-09 AREA WELLS

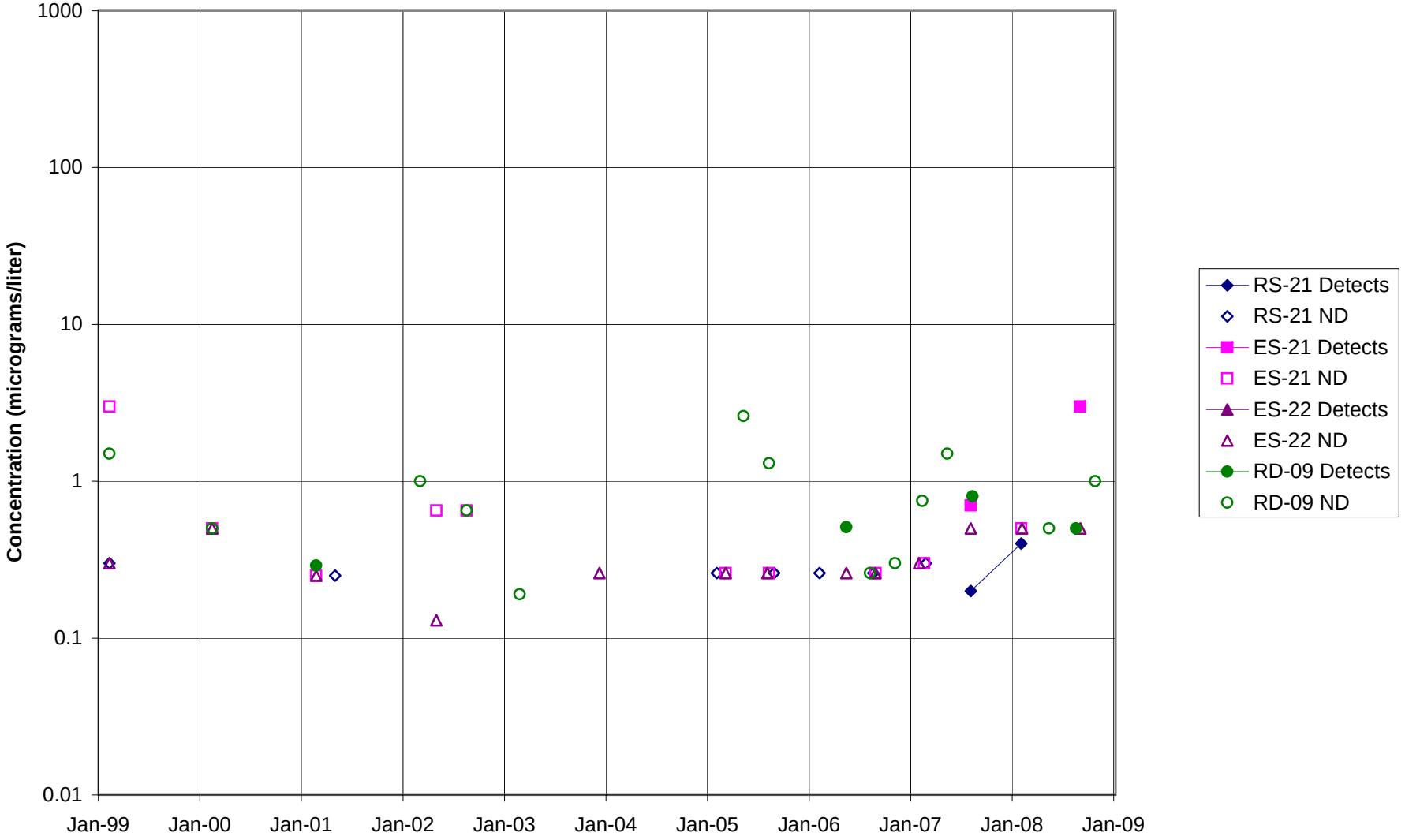


FIGURE F-365. VINYL CHLORIDE in HELIPORT, B/204 AREA WELLS

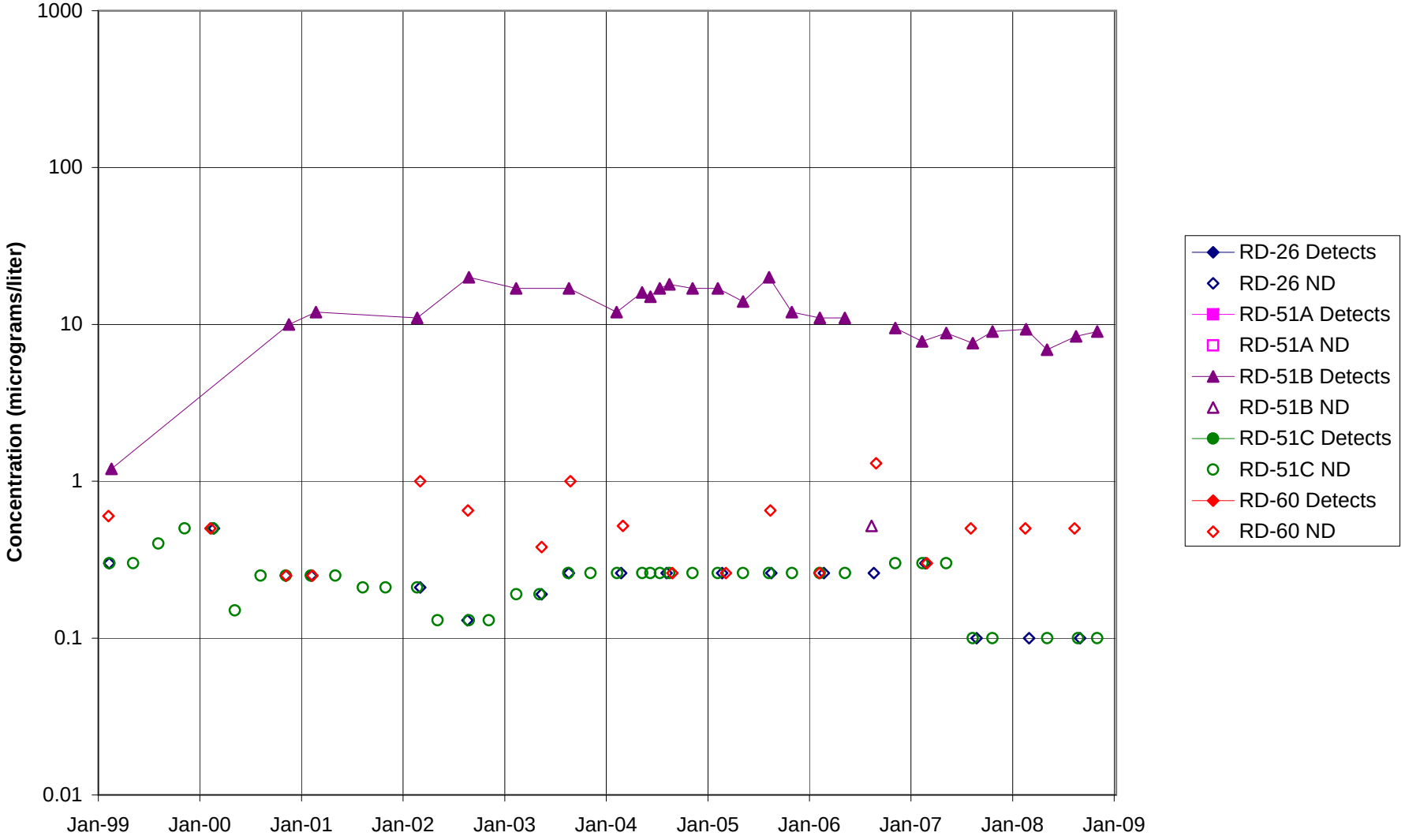


FIGURE F-366. VINYL CHLORIDE in ALFA / BRAVO AREA WELLS

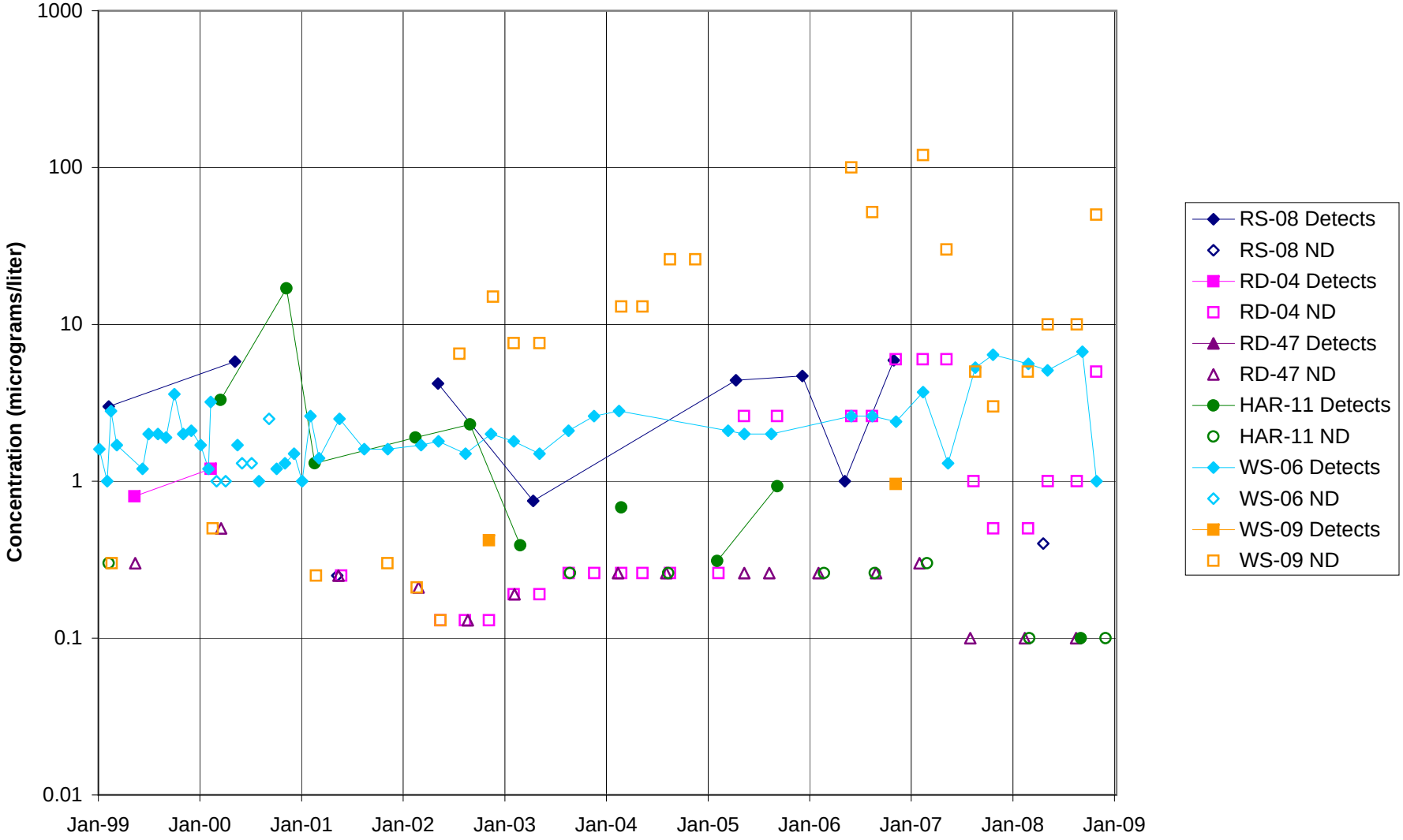


FIGURE F-367. VINYL CHLORIDE in SPA AREA WELLS

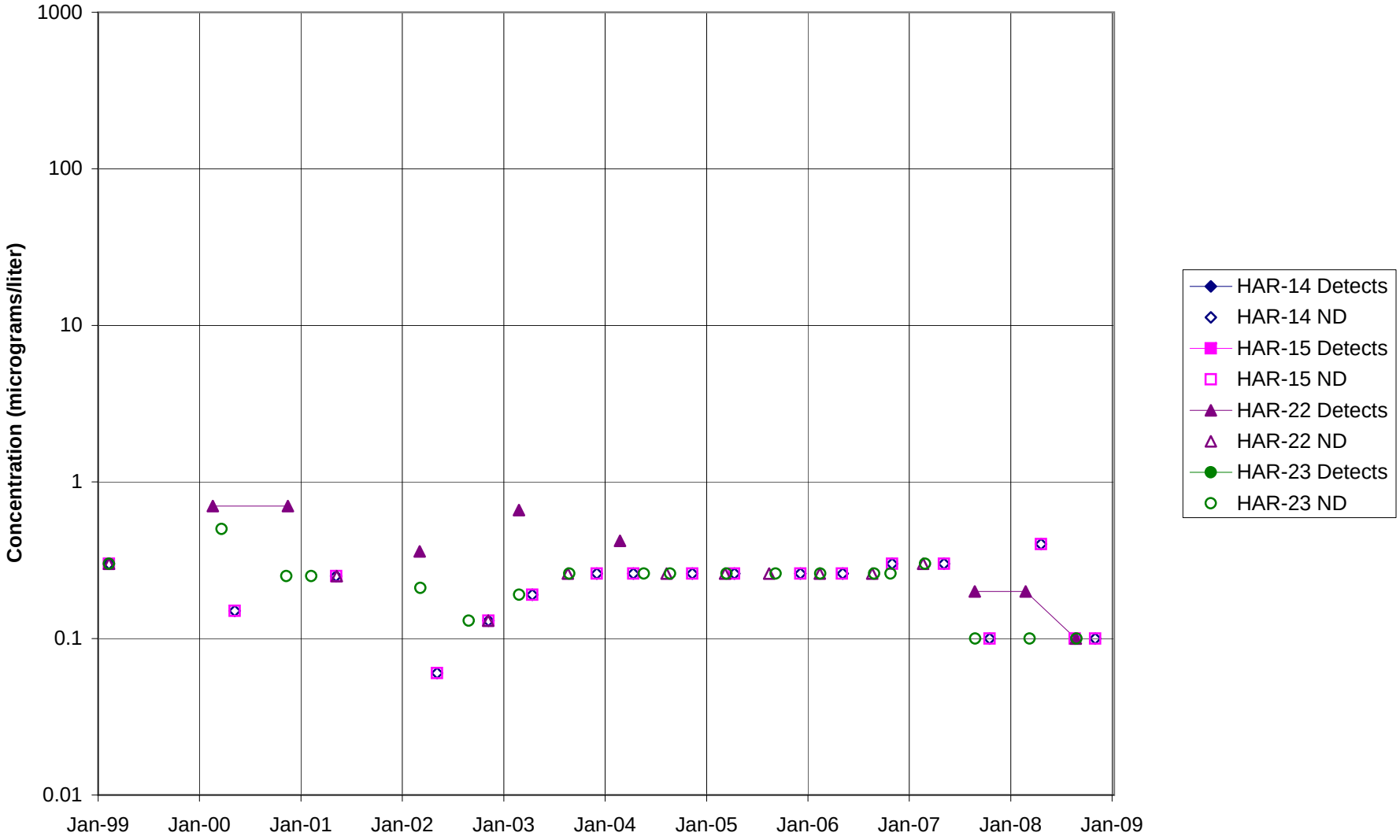


FIGURE F-368. VINYL CHLORIDE in COCA / PLF AREA WELLS

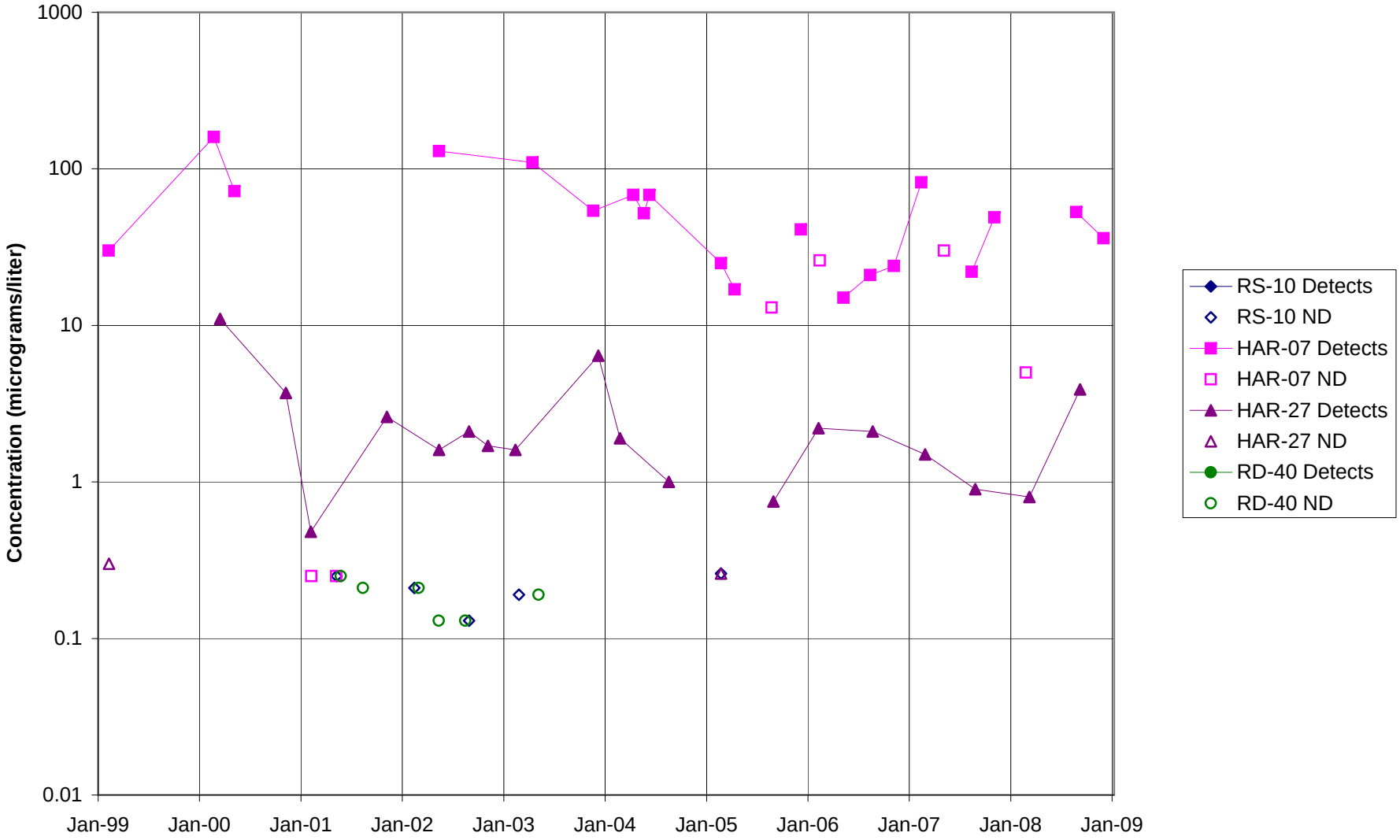


FIGURE F-369. VINYL CHLORIDE in DELTA / BUFFER ZONE AREA WELLS

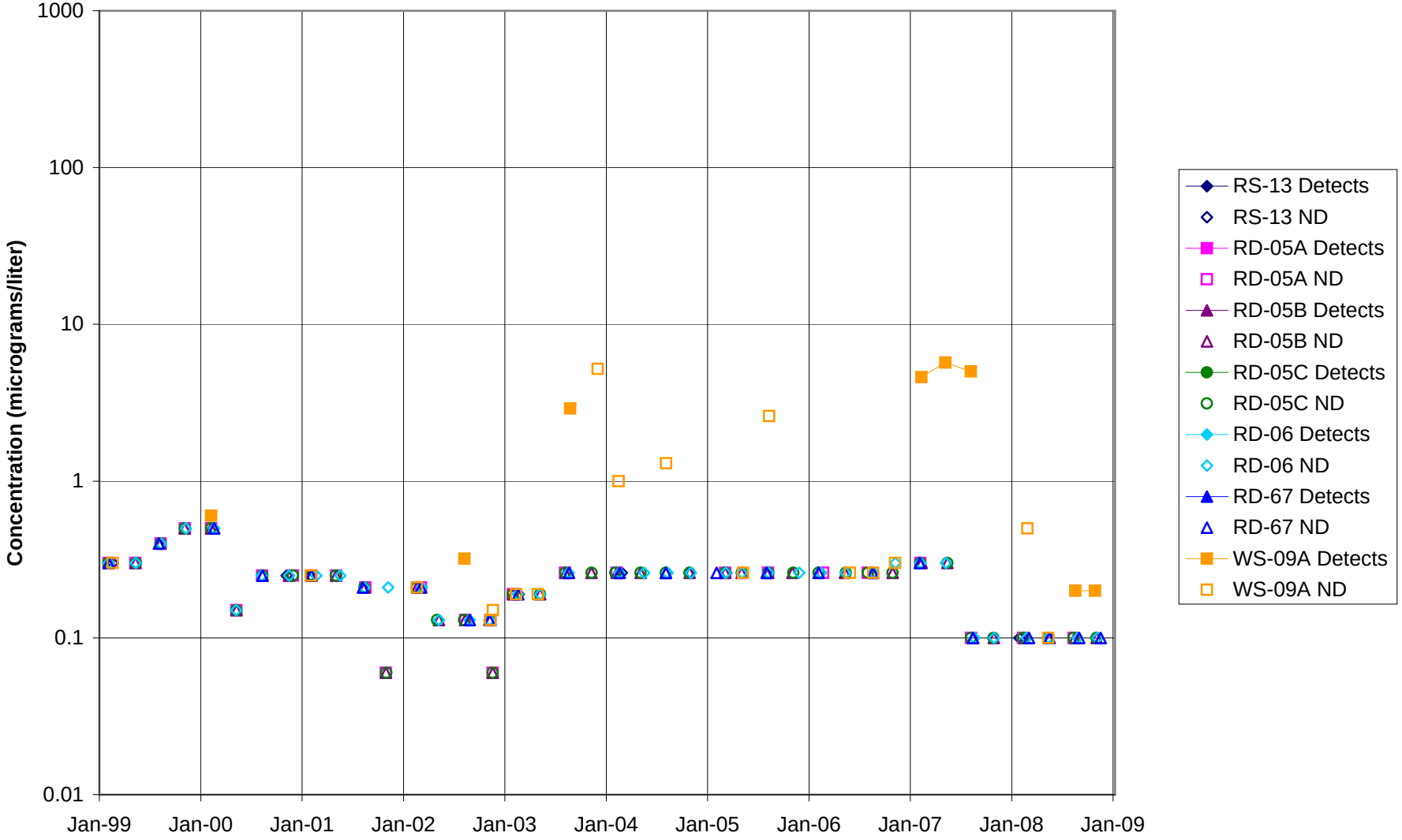
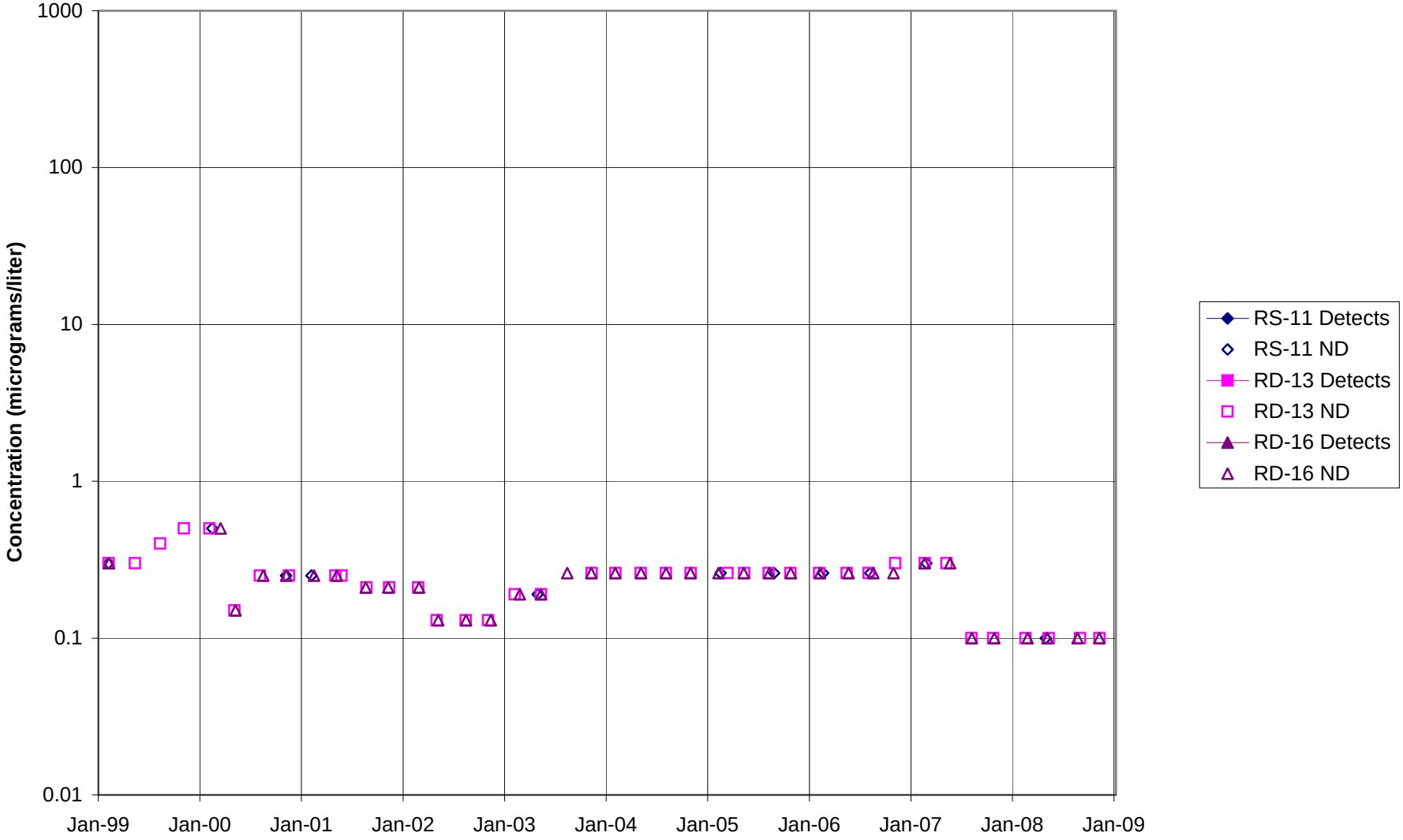


FIGURE F-370. VINYL CHLORIDE in AREA IV WELLS



APPENDIX G

Surface Water Discharge and Permitted Groundwater Remediation Systems

APPENDIX G
SURFACE WATER DISCHARGE and PERMITTED GROUNDWATER REMEDIATION SYSTEMS

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APPENDIX G

SURFACE WATER DISCHARGE and PERMITTED GROUNDWATER REMEDIATION SYSTEMS

Surface water discharge is regulated by NPDES permit No. CA-0001309. This appendix summarizes discharge limits and results of water quality analyses of surface water samples collected at Outfalls 001 and 002 during the year. Discharge limits and results of water quality analyses of surface water samples collected at Outfalls 001 and 002 during 2008 are presented in Tables G-I through G-VII. Discharge Monitoring Reports (DMR) for the SSFL NPDES outfalls are available at www.boeing.com\aboutus\environment\santa_susana\water_quality.html.

Cumulative extraction volume and VOC mass removal at each permitted groundwater remediation system are presented in Figures G-1 to G-6. These figures were prepared using data summarized in monthly remediation system reports provided by EnviroSolve Corporation (2008a through 2008l).

TABLE G-I
NPDES PERMIT CA0001309, OUTFALL 001
2008 REPORTING SUMMARY
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

			1/25/2008		1/29/2008		1/30/2008	
ANALYTE	**UNITS**	**Benchmark Limit Daily Max/Monthly Avg**	**RESULT**	**VALIDATION QUALIFIER**	**RESULT**	**VALIDATION QUALIFIER**	**RESULT**	**VALIDATION QUALIFIER**
Ammonia as Nitrogen (N)	mg/L	10.1/1.96	ND < 0.30	*	ANR	ANR	ANR	ANR
Biochemical Oxygen Demand (BOD 5 day)	mg/L	30/20	1.9	J* (DNQ)	ANR	ANR	ANR	ANR
Chloride	mg/L	150/-	11	*	ANR	ANR	ANR	ANR
Specific Conductivity (Lab)	umhos/cm	-/-	190	--	ANR	ANR	ANR	ANR
Surfactants (MBAS)	mg/L	0.5/-	ND < 0.044	*	ANR	ANR	ANR	ANR
Fluoride	mg/L	1.6/-	ANR	ANR	ANR	ANR	ANR	ANR
Nitrate + Nitrite as Nitrogen (N)	mg/L	8.0/-	3.8	*	ANR	ANR	ANR	ANR
Nitrate as Nitrogen (N)	mg/L	8.0/-	3.8	*	ANR	ANR	ANR	ANR
Nitrite-N	mg/L	1.0/-	ND < 0.090	*	ANR	ANR	ANR	ANR
Oil & Grease	mg/L	15/10	ND < 1.4	*	ANR	ANR	ANR	ANR
Perchlorate	ug/L	6.0/-	ND < 1.5	*	ANR	ANR	ANR	ANR
pH (Field)	pH units	6.5-8.5/-	7.4	*	ANR	ANR	ANR	ANR
Total Settleable Solids	ml/L	0.3/0.1	0.10	--	ANR	ANR	ANR	ANR
Sulfate	mg/L	300/-	22	*	ANR	ANR	ANR	ANR
Temperature	deg. F	86/-	48	*	ANR	ANR	ANR	ANR
Total Cyanide	ug/L	8.5/4.3	ND < 2.2	*	ANR	ANR	ANR	ANR
Total Dissolved Solids	mg/L	950/-	170	*	ANR	ANR	ANR	ANR
Hardness	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Hardness, dissolved	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Total Organic Carbon	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Total Residual Chlorine	mg/L	0.1/-	ANR	ANR	ANR	ANR	ANR	ANR
Total Suspended Solids	mg/L	45/15	57	--	ANR	ANR	ANR	ANR
Turbidity	NTU	-/-	18	--	ANR	ANR	ANR	ANR
Volume Discharged	MGD	160/-	0.565	*	0.661	*	0.343	*
METALS								
Antimony	ug/L	6.0/-	ANR	ANR	ANR	ANR	ANR	ANR
Antimony, dissolved	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Arsenic	ug/L	10/-	ANR	ANR	ANR	ANR	ANR	ANR
Arsenic, dissolved	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Barium	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR

See Table G-VII for abbreviations, definitions, and other explanations.
Table provided by MWH.
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NPDES PERMIT CA0001309, OUTFALL 001
2008 REPORTING SUMMARY
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

			1/25/2008		1/29/2008		1/30/2008	
ANALYTE	**UNITS**	**Benchmark Limit Daily Max/Monthly Avg**	**RESULT**	**VALIDATION QUALIFIER**	**RESULT**	**VALIDATION QUALIFIER**	**RESULT**	**VALIDATION QUALIFIER**
Barium, dissolved	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Beryllium	ug/L	4.0/-	ANR	ANR	ANR	ANR	ANR	ANR
Beryllium, dissolved	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Boron	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Boron, dissolved	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Cadmium	ug/L	3.1/2.0	0.12	J (DNQ)	ANR	ANR	ANR	ANR
Cadmium, dissolved	ug/L	-/-	ND < 0.11	U	ANR	ANR	ANR	ANR
Calcium	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Calcium, Dissolved	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Magnesium	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Magnesium, Dissolved	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Chromium	ug/L	16.3/8.1	ANR	ANR	ANR	ANR	ANR	ANR
Chromium, dissolved	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Chromium VI	ug/L	16.3/8.1	ANR	ANR	ANR	ANR	ANR	ANR
Cobalt	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Cobalt, dissolved	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Copper	ug/L	14.0/7.1	4.8	--	ANR	ANR	ANR	ANR
Copper, dissolved	ug/L	-/-	2.2	--	ANR	ANR	ANR	ANR
Iron	mg/L	0.3/-	5.7	--	ANR	ANR	ANR	ANR
Iron, dissolved	mg/L	-/-	0.26	--	ANR	ANR	ANR	ANR
Lead	ug/L	5.2/2.6	3.4	--	0.94	J (DNQ)	0.74	J (DNQ)
Lead, dissolved	ug/L	-/-	ND < 0.30	U	ANR	ANR	ANR	ANR
Manganese	ug/L	50/-	71	--	ANR	ANR	ANR	ANR
Manganese, dissolved	ug/L	-/-	8.2	J (DNQ)	ANR	ANR	ANR	ANR
Mercury	ug/L	0.10/0.05	ND < 0.050	UJ (*III)	ANR	ANR	ANR	ANR
Mercury, dissolved	ug/L	-/-	ND < 0.050	UJ (*III)	ANR	ANR	ANR	ANR
Nickel	ug/L	96/35	ANR	ANR	ANR	ANR	ANR	ANR
Nickel, dissolved	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Selenium	ug/L	8.2/4.1	ND < 0.30	U	ANR	ANR	ANR	ANR
Selenium, dissolved	ug/L	-/-	ND < 0.30	U	ANR	ANR	ANR	ANR
Silver	ug/L	4.1/2.0	ANR	ANR	ANR	ANR	ANR	ANR

See Table G-VII for abbreviations, definitions, and other explanations.
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2008 REPORTING SUMMARY
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

			1/25/2008		1/29/2008		1/30/2008	
ANALYTE	**UNITS**	**Benchmark Limit Daily Max/Monthly Avg**	**RESULT**	**VALIDATION QUALIFIER**	**RESULT**	**VALIDATION QUALIFIER**	**RESULT**	**VALIDATION QUALIFIER**
Silver, dissolved	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Thallium	ug/L	2.0/-	ANR	ANR	ANR	ANR	ANR	ANR
Thallium, dissolved	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Vanadium	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Vanadium, dissolved	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Zinc	ug/L	119/54	28	--	ANR	ANR	ANR	ANR
Zinc, dissolved	ug/L	-/-	ND < 6.0	U	ANR	ANR	ANR	ANR
ORGANICS								
Benzene	ug/L	-/-	ND < 0.28	U	ANR	ANR	ANR	ANR
Carbon Tetrachloride	ug/L	-/-	ND < 0.28	U	ANR	ANR	ANR	ANR
Chloroform	ug/L	-/-	ND < 0.33	U	ANR	ANR	ANR	ANR
1,1-Dichloroethane	ug/L	-/-	ND < 0.27	U	ANR	ANR	ANR	ANR
1,2-Dichloroethane	ug/L	-/-	ND < 0.28	U	ANR	ANR	ANR	ANR
1,1-Dichloroethene	ug/L	6.0/3.2	ND < 0.42	U	ANR	ANR	ANR	ANR
1,4-Dioxane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Ethylbenzene	ug/L	-/-	ND < 0.25	U	ANR	ANR	ANR	ANR
Tetrachloroethene	ug/L	-/-	ND < 0.32	U	ANR	ANR	ANR	ANR
Toluene	ug/L	-/-	ND < 0.36	U	ANR	ANR	ANR	ANR
Xylenes (Total)	ug/L	-/-	ND < 0.90	U	ANR	ANR	ANR	ANR
1,1,1-Trichloroethane	ug/L	-/-	ND < 0.30	U	ANR	ANR	ANR	ANR
1,1,2-Trichloroethane	ug/L	-/-	ND < 0.30	U	ANR	ANR	ANR	ANR
Trichloroethene	ug/L	5.0/-	ND < 0.26	U	ANR	ANR	ANR	ANR
Trichlorofluoromethane	ug/L	-/-	ND < 0.34	U	ANR	ANR	ANR	ANR
Trichlorotrifluoroethane (Freon 113)	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Vinyl Chloride	ug/L	-/-	ND < 0.30	U	ANR	ANR	ANR	ANR
TPH								
EFH (C13 - C22)	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
GRO (C4 - C12)	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
TRPH	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
ADDITIONAL ANALYTES								
1,2-Dichloro-1,1,2-trifluoroethane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR

See Table G-VII for abbreviations, definitions, and other explanations.
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BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

			1/25/2008		1/29/2008		1/30/2008	
ANALYTE	**UNITS**	**Benchmark Limit Daily Max/Monthly Avg**	**RESULT**	**VALIDATION QUALIFIER**	**RESULT**	**VALIDATION QUALIFIER**	**RESULT**	**VALIDATION QUALIFIER**
1,1,2,2-Tetrachloroethane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
1,2,4-Trichlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
1,2-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
1,2-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
1,2-Dichloropropane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
1,2-Diphenylhydrazine/Azobenzene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
1,3-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
1,3-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
1,4-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
1,4-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
2,4,6-Trichlorophenol	ug/L	13.0/6.5	ND < 0.096	U	ANR	ANR	ANR	ANR
2,4-Dichlorophenol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
2,4-Dimethylphenol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
2,4-Dinitrophenol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
2,4-Dinitrotoluene	ug/L	18.3/9.1	ND < 0.19	U	ANR	ANR	ANR	ANR
2,6-Dinitrotoluene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
2-Chloroethylvinylether	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
2-Chloronaphthalene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
2-Chlorophenol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
2-Methyl-4,6-dinitrophenol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
2-Nitrophenol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
3,3'-Dichlorobenzidine	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
4,4'-DDD	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
4,4'-DDE	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
4,4'-DDT	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
4-Bromophenylphenylether	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
4-Chloro-3-methylphenol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
4-Chlorophenylphenylether	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
4-Nitrophenol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthylene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR

See Table G-VII for abbreviations, definitions, and other explanations.
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BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

			1/25/2008		1/29/2008		1/30/2008	
ANALYTE	**UNITS**	**Benchmark Limit Daily Max/Monthly Avg**	**RESULT**	**VALIDATION QUALIFIER**	**RESULT**	**VALIDATION QUALIFIER**	**RESULT**	**VALIDATION QUALIFIER**
Acrolein	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Acrylonitrile	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Acute Toxicity	% SURVIVAL	70-100/-	ANR	ANR	ANR	ANR	ANR	ANR
Aldrin	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
alpha-BHC	ug/L	0.03/0.01	ND < 0.0024	*	ANR	ANR	ANR	ANR
Anthracene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Aroclor-1016	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Aroclor-1221	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Aroclor-1232	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Aroclor-1242	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Aroclor-1248	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Aroclor-1254	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Aroclor-1260	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Benzidine	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(a)anthracene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(a)pyrene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(b)fluoranthene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(g,h,I)perylene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(k)fluoranthene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
beta-BHC	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
bis (2-Chloroethyl) ether	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
bis (2-ethylhexyl) Phthalate	ug/L	4.0/-	ND < 1.6	U	ANR	ANR	ANR	ANR
bis(2-Chloroethoxy) methane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
bis(2-Chloroisopropyl) ether	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Bromodichloromethane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Bromoform	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Bromomethane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Butylbenzylphthalate	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Chlordane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Chlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Chloroethane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR

See Table G-VII for abbreviations, definitions, and other explanations.
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TABLE G-I
NPDES PERMIT CA0001309, OUTFALL 001
2008 REPORTING SUMMARY
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

			1/25/2008		1/29/2008		1/30/2008	
ANALYTE	**UNITS**	**Benchmark Limit Daily Max/Monthly Avg**	**RESULT**	**VALIDATION QUALIFIER**	**RESULT**	**VALIDATION QUALIFIER**	**RESULT**	**VALIDATION QUALIFIER**
Chloromethane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Chronic Toxicity	TUC	1.0/-	1.0	*	ANR	ANR	ANR	ANR
Chrysene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
cis-1,2-Dichloroethene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
cis-1,3-Dichloropropene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Cyclohexane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
delta-BHC	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzo(a,h)anthracene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Dibromochloromethane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Dieldrin	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Diethylphthalate	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Dimethylphthalate	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Di-n-butylphthalate	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Di-n-octylphthalate	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Endosulfan I	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Endosulfan II	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Endosulfan sulfate	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Endrin	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Endrin aldehyde	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Endrin ketone	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Fluoranthene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Fluorene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Heptachlor	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Heptachlor epoxide	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Hexachlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Hexachlorobutadiene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Hexachlorocyclopentadiene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Hexachloroethane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Hydrazine	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Isophorone	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR

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TABLE G-I
NPDES PERMIT CA0001309, OUTFALL 001
2008 REPORTING SUMMARY
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

			1/25/2008		1/29/2008		1/30/2008	
ANALYTE	**UNITS**	**Benchmark Limit Daily Max/Monthly Avg**	**RESULT**	**VALIDATION QUALIFIER**	**RESULT**	**VALIDATION QUALIFIER**	**RESULT**	**VALIDATION QUALIFIER**
Lindane (gamma-BHC)	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Methoxychlor	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Methylene Chloride	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Monomethyl Hydrazine	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Naphthalene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Nitrobenzene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
n-Nitrosodimethylamine	ug/L	16.3/8.1	ND < 0.096	U	ANR	ANR	ANR	ANR
n-Nitroso-di-n-propylamine	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
n-Nitrosodiphenylamine	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Pentachlorophenol	ug/L	16.5/8.2	ND < 0.096	U	ANR	ANR	ANR	ANR
Phenanthrene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Phenol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Pyrene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Toxaphene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
trans-1,2-Dichloroethene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
trans-1,3-Dichloropropene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Unsymmetrical Dimethyl Hydrazine	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR

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TABLE G-I
NPDES PERMIT CA0001309, OUTFALL 001
2008 REPORTING SUMMARY
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

			2/3/2008		2/24/2008	
ANALYTE	**UNITS**	**Benchmark Limit Daily Max/Monthly Avg**	**RESULT**	**VALIDATION QUALIFIER**	**RESULT**	**VALIDATION QUALIFIER**
Ammonia as Nitrogen (N)	mg/L	10.1/1.96	ND < 0.30	*	ND < 0.30	*
Biochemical Oxygen Demand (BOD 5 day)	mg/L	30/20	1.3	J* (DNQ)	1.7	J* (DNQ)
Chloride	mg/L	150/-	22	*	16	*
Specific Conductivity (Lab)	umhos/cm	-/-	310	--	310	--
Surfactants (MBAS)	mg/L	0.5/-	0.10	*	ND < 0.044	*
Fluoride	mg/L	1.6/-	0.29	J* (DNQ)	ANR	ANR
Nitrate + Nitrite as Nitrogen (N)	mg/L	8.0/-	2.4	*	0.51	*
Nitrate as Nitrogen (N)	mg/L	8.0/-	2.4	*	0.51	*
Nitrite-N	mg/L	1.0/-	ND < 0.090	*	ND < 0.090	*
Oil & Grease	mg/L	15/10	ND < 1.3	*	1.9	J* (DNQ)
Perchlorate	ug/L	6.0/-	ND < 0.65	*	ND < 1.5	*
pH (Field)	pH units	6.5-8.5/-	7.6	*	7.8	*
Total Settleable Solids	ml/L	0.3/0.1	0.10	--	0.20	--
Sulfate	mg/L	300/-	50	M-3*	53	M-3*
Temperature	deg. F	86/-	49	*	54	*
Total Cyanide	ug/L	8.5/4.3	ND < 2.2	*	ND < 2.2	*
Total Dissolved Solids	mg/L	950/-	290	*	240	*
Hardness	mg/L	-/-	120	--	ANR	ANR
Hardness, dissolved	mg/L	-/-	110	--	ANR	ANR
Total Organic Carbon	mg/L	-/-	9.8	--	ANR	ANR
Total Residual Chlorine	mg/L	0.1/-	0.17	J (H)	ANR	ANR
Total Suspended Solids	mg/L	45/15	120	--	38	--
Turbidity	NTU	-/-	350	--	76	--
Volume Discharged	MGD	160/-	0.332	*	0.101	*
METALS						
Antimony	ug/L	6.0/-	0.43	J (DNQ)	ANR	ANR
Antimony, dissolved	ug/L	-/-	0.47	J (DNQ)	ANR	ANR
Arsenic	ug/L	10/-	ND < 7.0	U	ANR	ANR
Arsenic, dissolved	ug/L	-/-	ND < 7.0	U	ANR	ANR
Barium	mg/L	-/-	0.13	--	ANR	ANR

See Table G-VII for abbreviations, definitions, and other explanations.
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TABLE G-I
NPDES PERMIT CA0001309, OUTFALL 001
2008 REPORTING SUMMARY
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

			2/3/2008		2/24/2008	
ANALYTE	**UNITS**	**Benchmark Limit Daily Max/Monthly Avg**	**RESULT**	**VALIDATION QUALIFIER**	**RESULT**	**VALIDATION QUALIFIER**
Barium, dissolved	mg/L	-/-	0.029	--	ANR	ANR
Beryllium	ug/L	4.0/-	ND < 0.90	U	ANR	ANR
Beryllium, dissolved	ug/L	-/-	ND < 0.90	U	ANR	ANR
Boron	mg/L	-/-	0.040	J (DNQ)	ANR	ANR
Boron, dissolved	mg/L	-/-	0.045	J (DNQ)	ANR	ANR
Cadmium	ug/L	3.1/2.0	0.16	J (DNQ)	ND < 0.11	U
Cadmium, dissolved	ug/L	-/-	0.13	J (DNQ)	ND < 0.11	U
Calcium	mg/L	-/-	30	--	ANR	ANR
Calcium, Dissolved	mg/L	-/-	28	--	ANR	ANR
Magnesium	mg/L	-/-	12	--	ANR	ANR
Magnesium, Dissolved	mg/L	-/-	8.6	--	ANR	ANR
Chromium	ug/L	16.3/8.1	19	--	ANR	ANR
Chromium, dissolved	ug/L	-/-	ND < 2.0	U	ANR	ANR
Chromium VI	ug/L	16.3/8.1	ND < 0.20	*	ANR	ANR
Cobalt	ug/L	-/-	4.3	J (DNQ)	ANR	ANR
Cobalt, dissolved	ug/L	-/-	ND < 2.0	U	ANR	ANR
Copper	ug/L	14.0/7.1	9.4	--	3.9	--
Copper, dissolved	ug/L	-/-	2.5	--	1.8	J (DNQ)
Iron	mg/L	0.3/-	17	--	3.5	--
Iron, dissolved	mg/L	-/-	0.63	--	0.14	--
Lead	ug/L	5.2/2.6	6.4	--	1.6	--
Lead, dissolved	ug/L	-/-	0.38	J (DNQ)	ND < 0.30	U
Manganese	ug/L	50/-	220	--	45	--
Manganese, dissolved	ug/L	-/-	16	J (DNQ)	10	J (DNQ)
Mercury	ug/L	0.10/0.05	ND < 0.050	U	ND < 0.050	U
Mercury, dissolved	ug/L	-/-	ND < 0.050	U	ND < 0.050	U
Nickel	ug/L	96/35	14	--	ANR	ANR
Nickel, dissolved	ug/L	-/-	ND < 2.0	U	ANR	ANR
Selenium	ug/L	8.2/4.1	0.51	J (DNQ)	ND < 2.0	UJ (B)
Selenium, dissolved	ug/L	-/-	ND < 0.30	U	ND < 0.30	U
Silver	ug/L	4.1/2.0	ND < 0.30	U	ANR	ANR

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TABLE G-I
NPDES PERMIT CA0001309, OUTFALL 001
2008 REPORTING SUMMARY
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

			2/3/2008		2/24/2008	
ANALYTE	**UNITS**	**Benchmark Limit Daily Max/Monthly Avg**	**RESULT**	**VALIDATION QUALIFIER**	**RESULT**	**VALIDATION QUALIFIER**
Silver, dissolved	ug/L	-/-	ND < 0.30	U	ANR	ANR
Thallium	ug/L	2.0/-	0.27	J (DNQ)	ANR	ANR
Thallium, dissolved	ug/L	-/-	ND < 0.20	U	ANR	ANR
Vanadium	ug/L	-/-	35	--	ANR	ANR
Vanadium, dissolved	ug/L	-/-	ND < 3.0	U	ANR	ANR
Zinc	ug/L	119/54	47	--	19	J (DNQ)
Zinc, dissolved	ug/L	-/-	ND < 6.0	U	ND < 6.0	U
ORGANICS						
Benzene	ug/L	-/-	ND < 0.28	*	ND < 0.28	*
Carbon Tetrachloride	ug/L	-/-	ND < 0.28	*	ND < 0.28	*
Chloroform	ug/L	-/-	ND < 0.33	*	ND < 0.33	*
1,1-Dichloroethane	ug/L	-/-	ND < 0.27	*	ND < 0.27	*
1,2-Dichloroethane	ug/L	-/-	ND < 0.28	*	ND < 0.28	*
1,1-Dichloroethene	ug/L	6.0/3.2	ND < 0.42	*	ND < 0.42	*
1,4-Dioxane	ug/L	-/-	ND < 1.0	*	ANR	ANR
Ethylbenzene	ug/L	-/-	ND < 0.25	*	ND < 0.25	*
Tetrachloroethene	ug/L	-/-	ND < 0.32	*	ND < 0.32	*
Toluene	ug/L	-/-	ND < 0.36	*	ND < 0.36	*
Xylenes (Total)	ug/L	-/-	ND < 0.90	*	ND < 0.90	*
1,1,1-Trichloroethane	ug/L	-/-	ND < 0.30	*	ND < 0.30	*
1,1,2-Trichloroethane	ug/L	-/-	ND < 0.30	*	ND < 0.30	*
Trichloroethene	ug/L	5.0/-	ND < 0.26	*	ND < 0.26	*
Trichlorofluoromethane	ug/L	-/-	ND < 0.34	*	ND < 0.34	*
Trichlorotrifluoroethane (Freon 113)	ug/L	-/-	ND < 0.50	*	ND < 0.50	*
Vinyl Chloride	ug/L	-/-	ND < 0.30	*	ND < 0.30	*
TPH						
EFH (C13 - C22)	mg/L	-/-	ND < 0.095	*	ANR	ANR
GRO (C4 - C12)	mg/L	-/-	ND < 0.025	*	ANR	ANR
TRPH	mg/L	-/-	ANR	ANR	ANR	ANR
ADDITIONAL ANALYTES						
1,2-Dichloro-1,1,2-trifluoroethane	ug/L	-/-	ND < 2.5	*	ANR	ANR

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TABLE G-I
NPDES PERMIT CA0001309, OUTFALL 001
2008 REPORTING SUMMARY
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

			2/3/2008		2/24/2008	
ANALYTE	**UNITS**	**Benchmark Limit Daily Max/Monthly Avg**	**RESULT**	**VALIDATION QUALIFIER**	**RESULT**	**VALIDATION QUALIFIER**
1,1,2,2-Tetrachloroethane	ug/L	-/-	ND < 0.24	*	ANR	ANR
1,2,4-Trichlorobenzene	ug/L	-/-	ND < 0.094	U	ANR	ANR
1,2-Dichlorobenzene	ug/L	-/-	ND < 0.094	U	ANR	ANR
1,2-Dichlorobenzene	ug/L	-/-	ND < 0.32	*	ANR	ANR
1,2-Dichloropropane	ug/L	-/-	ND < 0.35	*	ANR	ANR
1,2-Diphenylhydrazine/Azobenzene	ug/L	-/-	ND < 0.094	U	ANR	ANR
1,3-Dichlorobenzene	ug/L	-/-	ND < 0.094	U	ANR	ANR
1,3-Dichlorobenzene	ug/L	-/-	ND < 0.35	*	ANR	ANR
1,4-Dichlorobenzene	ug/L	-/-	ND < 0.19	U	ANR	ANR
1,4-Dichlorobenzene	ug/L	-/-	ND < 0.37	*	ANR	ANR
2,4,6-Trichlorophenol	ug/L	13.0/6.5	ND < 0.094	U	ND < 0.094	*
2,4-Dichlorophenol	ug/L	-/-	ANR	ANR	ANR	ANR
2,4-Dimethylphenol	ug/L	-/-	ANR	ANR	ANR	ANR
2,4-Dinitrophenol	ug/L	-/-	ND < 0.85	U	ANR	ANR
2,4-Dinitrotoluene	ug/L	18.3/9.1	ND < 0.19	U	ND < 0.19	*
2,6-Dinitrotoluene	ug/L	-/-	ND < 0.094	U	ANR	ANR
2-Chloroethylvinylether	ug/L	-/-	ND < 1.8	*	ANR	ANR
2-Chloronaphthalene	ug/L	-/-	0.19	J (DNQ)	ANR	ANR
2-Chlorophenol	ug/L	-/-	ANR	ANR	ANR	ANR
2-Methyl-4,6-dinitrophenol	ug/L	-/-	ANR	ANR	ANR	ANR
2-Nitrophenol	ug/L	-/-	ANR	ANR	ANR	ANR
3,3'-Dichlorobenzidine	ug/L	-/-	ND < 0.38	U	ANR	ANR
4,4'-DDD	ug/L	-/-	ND < 0.0019	*	ANR	ANR
4,4'-DDE	ug/L	-/-	ND < 0.0028	*	ANR	ANR
4,4'-DDT	ug/L	-/-	ND < 0.0038	*	ANR	ANR
4-Bromophenylphenylether	ug/L	-/-	ND < 0.094	U	ANR	ANR
4-Chloro-3-methylphenol	ug/L	-/-	ANR	ANR	ANR	ANR
4-Chlorophenylphenylether	ug/L	-/-	ND < 0.094	U	ANR	ANR
4-Nitrophenol	ug/L	-/-	ANR	ANR	ANR	ANR
Acenaphthene	ug/L	-/-	ND < 0.094	U	ANR	ANR
Acenaphthylene	ug/L	-/-	ND < 0.094	U	ANR	ANR

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2008 REPORTING SUMMARY
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

			2/3/2008		2/24/2008	
ANALYTE	**UNITS**	**Benchmark Limit Daily Max/Monthly Avg**	**RESULT**	**VALIDATION QUALIFIER**	**RESULT**	**VALIDATION QUALIFIER**
Acrolein	ug/L	-/-	ND < 4.0	*	ANR	ANR
Acrylonitrile	ug/L	-/-	ND < 0.70	*	ANR	ANR
Acute Toxicity	% SURVIVAL	70-100/-	100	*	ANR	ANR
Aldrin	ug/L	-/-	ND < 0.0014	*	ANR	ANR
alpha-BHC	ug/L	0.03/0.01	ND < 0.0024	*	ND < 0.0024	*
Anthracene	ug/L	-/-	ND < 0.094	U	ANR	ANR
Aroclor-1016	ug/L	-/-	ND < 0.42	*	ANR	ANR
Aroclor-1221	ug/L	-/-	ND < 0.24	*	ANR	ANR
Aroclor-1232	ug/L	-/-	ND < 0.24	*	ANR	ANR
Aroclor-1242	ug/L	-/-	ND < 0.24	*	ANR	ANR
Aroclor-1248	ug/L	-/-	ND < 0.24	*	ANR	ANR
Aroclor-1254	ug/L	-/-	ND < 0.24	*	ANR	ANR
Aroclor-1260	ug/L	-/-	ND < 0.28	*	ANR	ANR
Benzidine	ug/L	-/-	ND < 0.94	UJ (*III)	ANR	ANR
Benzo(a)anthracene	ug/L	-/-	ND < 0.094	U	ANR	ANR
Benzo(a)pyrene	ug/L	-/-	ND < 0.094	U	ANR	ANR
Benzo(b)fluoranthene	ug/L	-/-	ND < 0.094	U	ANR	ANR
Benzo(g,h,I)perylene	ug/L	-/-	ND < 0.094	U	ANR	ANR
Benzo(k)fluoranthene	ug/L	-/-	ND < 0.094	U	ANR	ANR
beta-BHC	ug/L	-/-	ND < 0.0038	*	ANR	ANR
bis (2-Chloroethyl) ether	ug/L	-/-	ND < 0.094	U	ANR	ANR
bis (2-ethylhexyl) Phthalate	ug/L	4.0/-	ND < 4.7	U (B)	ND < 1.6	*
bis(2-Chloroethoxy) methane	ug/L	-/-	ND < 0.094	U	ANR	ANR
bis(2-Chloroisopropyl) ether	ug/L	-/-	ND < 0.094	U	ANR	ANR
Bromodichloromethane	ug/L	-/-	ND < 0.30	*	ANR	ANR
Bromoform	ug/L	-/-	ND < 0.40	*	ANR	ANR
Bromomethane	ug/L	-/-	ND < 0.42	*	ANR	ANR
Butylbenzylphthalate	ug/L	-/-	ND < 4.7	U (B)	ANR	ANR
Chlordane	ug/L	-/-	ND < 0.028	*	ANR	ANR
Chlorobenzene	ug/L	-/-	ND < 0.36	*	ANR	ANR
Chloroethane	ug/L	-/-	ND < 0.40	*	ANR	ANR

See Table G-VII for abbreviations, definitions, and other explanations.
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TABLE G-I
NPDES PERMIT CA0001309, OUTFALL 001
2008 REPORTING SUMMARY
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

			2/3/2008		2/24/2008	
ANALYTE	**UNITS**	**Benchmark Limit Daily Max/Monthly Avg**	**RESULT**	**VALIDATION QUALIFIER**	**RESULT**	**VALIDATION QUALIFIER**
Chloromethane	ug/L	-/-	ND < 0.40	*	ANR	ANR
Chronic Toxicity	TUC	1.0/-	1.0	*	ANR	ANR
Chrysene	ug/L	-/-	ND < 0.094	U	ANR	ANR
cis-1,2-Dichloroethene	ug/L	-/-	ANR	ANR	ANR	ANR
cis-1,3-Dichloropropene	ug/L	-/-	ND < 0.22	*	ANR	ANR
Cyclohexane	ug/L	-/-	ND < 2.5	*	ANR	ANR
delta-BHC	ug/L	-/-	ND < 0.0033	*	ANR	ANR
Dibenzo(a,h)anthracene	ug/L	-/-	ND < 0.094	U	ANR	ANR
Dibromochloromethane	ug/L	-/-	ND < 0.28	*	ANR	ANR
Dieldrin	ug/L	-/-	ND < 0.0019	*	ANR	ANR
Diethylphthalate	ug/L	-/-	ND < 0.94	U (B)	ANR	ANR
Dimethylphthalate	ug/L	-/-	ND < 0.094	U	ANR	ANR
Di-n-butylphthalate	ug/L	-/-	ND < 0.19	U	ANR	ANR
Di-n-octylphthalate	ug/L	-/-	ND < 0.094	U	ANR	ANR
Endosulfan I	ug/L	-/-	ND < 0.0019	*	ANR	ANR
Endosulfan II	ug/L	-/-	ND < 0.0028	*	ANR	ANR
Endosulfan sulfate	ug/L	-/-	ND < 0.0028	*	ANR	ANR
Endrin	ug/L	-/-	ND < 0.0019	*	ANR	ANR
Endrin aldehyde	ug/L	-/-	ND < 0.0019	*	ANR	ANR
Endrin ketone	ug/L	-/-	ND < 0.0028	*	ANR	ANR
Fluoranthene	ug/L	-/-	ND < 0.094	U	ANR	ANR
Fluorene	ug/L	-/-	ND < 0.094	U	ANR	ANR
Heptachlor	ug/L	-/-	ND < 0.0028	*	ANR	ANR
Heptachlor epoxide	ug/L	-/-	ND < 0.0024	*	ANR	ANR
Hexachlorobenzene	ug/L	-/-	ND < 0.094	U	ANR	ANR
Hexachlorobutadiene	ug/L	-/-	ND < 0.19	U	ANR	ANR
Hexachlorocyclopentadiene	ug/L	-/-	ND < 0.094	UJ (C)	ANR	ANR
Hexachloroethane	ug/L	-/-	ND < 0.19	U	ANR	ANR
Hydrazine	ug/L	-/-	ND < 0.15	U	ANR	ANR
Indeno(1,2,3-cd)pyrene	ug/L	-/-	ND < 0.094	U	ANR	ANR
Isophorone	ug/L	-/-	ND < 0.094	U	ANR	ANR

See Table G-VII for abbreviations, definitions, and other explanations.
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TABLE G-I
NPDES PERMIT CA0001309, OUTFALL 001
2008 REPORTING SUMMARY
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

			2/3/2008		2/24/2008	
ANALYTE	**UNITS**	**Benchmark Limit Daily Max/Monthly Avg**	**RESULT**	**VALIDATION QUALIFIER**	**RESULT**	**VALIDATION QUALIFIER**
Lindane (gamma-BHC)	ug/L	-/-	ND < 0.0028	*	ANR	ANR
Methoxychlor	ug/L	-/-	ND < 0.0033	*	ANR	ANR
Methylene Chloride	ug/L	-/-	ND < 0.95	*	ANR	ANR
Monomethyl Hydrazine	ug/L	-/-	ND < 0.56	U	ANR	ANR
Naphthalene	ug/L	-/-	ND < 0.094	U	ANR	ANR
Nitrobenzene	ug/L	-/-	ND < 0.094	U	ANR	ANR
n-Nitrosodimethylamine	ug/L	16.3/8.1	ND < 0.094	U	ND < 0.094	*
n-Nitroso-di-n-propylamine	ug/L	-/-	ND < 0.094	U	ANR	ANR
n-Nitrosodiphenylamine	ug/L	-/-	ND < 0.094	U	ANR	ANR
Pentachlorophenol	ug/L	16.5/8.2	ND < 0.094	U	ND < 0.094	*
Phenanthrene	ug/L	-/-	ND < 0.094	U	ANR	ANR
Phenol	ug/L	-/-	ANR	ANR	ANR	ANR
Pyrene	ug/L	-/-	ND < 0.094	U	ANR	ANR
Toxaphene	ug/L	-/-	ND < 0.066	*	ANR	ANR
trans-1,2-Dichloroethene	ug/L	-/-	ND < 0.27	*	ANR	ANR
trans-1,3-Dichloropropene	ug/L	-/-	ND < 0.32	*	ANR	ANR
Unsymmetrical Dimethyl Hydrazine	ug/L	-/-	ND < 0.32	U	ANR	ANR

See Table G-VII for abbreviations, definitions, and other explanations.
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TABLE G-I
NPDES PERMIT CA0001309, OUTFALL 001
2008 REPORTING SUMMARY
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

1/1/00 0:00			1/25/2008			2/3/2008		
ANALYTE	**UNITS**	**Benchmark Limit Daily Max/Monthly Avg**	**RESULT**	**MDA**	**VALIDATION QUALIFIER**	**RESULT**	**MDA**	**VALIDATION QUALIFIER**
RADIOACTIVITY								
Gross Alpha	pCi/L	15/-	3.13 ± 0.82	0.810	J (R)	6.24 ± 1.3	1.1	J (R)
Gross Beta	pCi/L	50/-	3.00 ± 0.62	0.900	--	6.85 ± 0.94	1.3	--
Strontium-90	pCi/L	8.0/-	-0.002 ± 0.31	0.740	UJ (H)	0.160 ± 0.31	0.65	UJ (H)
Total Combined Radium-226 & Radium 228	pCi/L	5.0/-	0.585 ± 0.522	1.3	UJ (H)	0.530 ± 0.39	1.13	UJ (H)
Tritium	pCi/L	20000/-	-101 ± 90	160	U	-21.7 ± 83	150	U
Cs-137 (G)	pCi/L	----	ND < 1.60	1.60	UJ (H)	ND < 0.98	0.98	UJ (H)
K-40 (G)	pCi/L	----	ND < 51	51	UJ (H)	ND < 13	13	UJ (H)
Uranium, Total	pCi/L	20/-	0.210 ± 0.025	0.022	J (H)	1.22 ± 0.13	0.022	J (H)

			2/24/2008		
ANALYTE	**UNITS**	**Benchmark Limit Daily Max/Monthly Avg**	**RESULT**	**MDA**	**VALIDATION QUALIFIER**
RADIOACTIVITY					
Gross Alpha	pCi/L	15/-	3.00 ± 0.96	1.0	J (R)
Gross Beta	pCi/L	50/-	4.12 ± 0.66	0.92	--
Strontium-90	pCi/L	8.0/-	-0.085 ± 0.31	0.76	UJ (H)
Total Combined Radium-226 & Radium 228	pCi/L	5.0/-	0.394 ± 0.47	1.21	UJ (H)
Tritium	pCi/L	20000/-	24.5 ± 88	150	U
Cs-137 (G)	pCi/L	----	ND < 1.9	1.9	UJ (H)
K-40 (G)	pCi/L	----	ND < 48	48	UJ (H)
Uranium, Total	pCi/L	20/-	0.510 ± 0.058	0.023	J (H)

See Table G-VII for abbreviations, definitions, and other explanations.
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TABLE G-I
NPDES PERMIT CA0001309, OUTFALL 001
2008 REPORTING SUMMARY
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Sample Date: 1/25/2008								
ANALYTE	**LAB LOD (ug/L)**	**LAB RL (ug/L)**	**LAB RESULT (ug/L)**	**VALIDATION QUALIFIER**		**1998 WHO TEF**	**TCDD Equivalent (w/DNQ Values) (ug/L)**	**TCDD Equivalent (w/out DNQ Values) (ug/L)**
1,2,3,4,6,7,8-HpCDD	0.00E+00	2.50E-05	2.39E-05	J (DNQ)		0.01	**2.39E-07**	**ND**
1,2,3,4,6,7,8-HpCDF	0.00E+00	4.60E-06	ND	UJ (*III)		0.01	**ND**	**ND**
1,2,3,4,7,8,9-HpCDF	1.31E-06	2.50E-05	ND	U		0.01	**ND**	**ND**
1,2,3,4,7,8-HxCDD	2.76E-06	2.50E-05	ND	U		0.1	**ND**	**ND**
1,2,3,4,7,8-HxCDF	9.23E-07	2.50E-05	ND	U		0.1	**ND**	**ND**
1,2,3,6,7,8-HxCDD	2.79E-06	2.50E-05	ND	U		0.1	**ND**	**ND**
1,2,3,6,7,8-HxCDF	1.28E-06	2.50E-05	ND	U		0.1	**ND**	**ND**
1,2,3,7,8,9-HxCDD	2.66E-06	2.50E-05	ND	U		0.1	**ND**	**ND**
1,2,3,7,8,9-HxCDF	9.17E-07	2.50E-05	ND	U		0.1	**ND**	**ND**
1,2,3,7,8-PeCDD	1.07E-06	2.50E-05	ND	U		1	**ND**	**ND**
1,2,3,7,8-PeCDF	1.04E-06	2.50E-05	ND	U		0.05	**ND**	**ND**
2,3,4,6,7,8-HxCDF	7.30E-07	2.50E-05	ND	U		0.1	**ND**	**ND**
2,3,4,7,8-PeCDF	1.14E-06	2.50E-05	ND	U		0.5	**ND**	**ND**
2,3,7,8-TCDD	1.00E-06	5.00E-06	ND	U		1	**ND**	**ND**
2,3,7,8-TCDF	6.99E-07	5.00E-06	ND	U		0.1	**ND**	**ND**
OCDD	0.00E+00	5.00E-05	2.25E-04	--		0.0001	**2.25E-08**	**2.25E-08**
OCDF	0.00E+00	5.00E-05	1.46E-05	J (DNQ)		0.0001	**1.46E-09**	**ND**

TCDD TEQ w/ DNQ Values	**2.63E-07**	
TCDD TEQ w/out DNQ Values		**2.25E-08**

Dioxin TCDD TEQ benchmark limit established for this outfall? Yes **TCDD TEQ PERMIT LIMIT = 2.80E-08**

See Table G-VII for abbreviations, definitions, and other explanations.
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TABLE G-I
NPDES PERMIT CA0001309, OUTFALL 001
2008 REPORTING SUMMARY
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Sample Date: 2/03/2008								
ANALYTE	**LAB LOD (ug/L)**	**LAB RL (ug/L)**	**LAB RESULT (ug/L)**	**VALIDATION QUALIFIER**		**1998 WHO TEF**	**TCDD Equivalent (w/DNQ Values) (ug/L)**	**TCDD Equivalent (w/out DNQ Values) (ug/L)**
1,2,3,4,6,7,8-HpCDD	0.00E+00	2.50E-05	1.18E-05	J (DNQ)		0.01	**1.18E-07**	**ND**
1,2,3,4,6,7,8-HpCDF	0.00E+00	2.50E-05	3.54E-06	J (DNQ)		0.01	**3.54E-08**	**ND**
1,2,3,4,7,8,9-HpCDF	1.21E-06	2.50E-05	ND	U		0.01	**ND**	**ND**
1,2,3,4,7,8-HxCDD	2.25E-06	2.50E-05	ND	U		0.1	**ND**	**ND**
1,2,3,4,7,8-HxCDF	7.84E-07	2.50E-05	ND	U		0.1	**ND**	**ND**
1,2,3,6,7,8-HxCDD	2.24E-06	2.50E-05	ND	U		0.1	**ND**	**ND**
1,2,3,6,7,8-HxCDF	8.43E-07	2.50E-05	ND	U		0.1	**ND**	**ND**
1,2,3,7,8,9-HxCDD	2.15E-06	2.50E-05	ND	U		0.1	**ND**	**ND**
1,2,3,7,8,9-HxCDF	1.18E-06	2.50E-05	ND	U		0.1	**ND**	**ND**
1,2,3,7,8-PeCDD	5.81E-07	2.50E-05	ND	U		1	**ND**	**ND**
1,2,3,7,8-PeCDF	7.59E-07	2.50E-05	ND	U		0.05	**ND**	**ND**
2,3,4,6,7,8-HxCDF	9.16E-07	2.50E-05	ND	U		0.1	**ND**	**ND**
2,3,4,7,8-PeCDF	7.55E-07	2.50E-05	ND	U		0.5	**ND**	**ND**
2,3,7,8-TCDD	5.56E-07	5.00E-06	ND	U		1	**ND**	**ND**
2,3,7,8-TCDF	1.05E-06	5.00E-06	ND	U		0.1	**ND**	**ND**
OCDD	0.00E+00	5.00E-05	1.05E-04	--		0.0001	**1.05E-08**	**1.05E-08**
OCDF	0.00E+00	5.00E-05	7.27E-06	J (DNQ)		0.0001	**7.27E-10**	**ND**

TCDD TEQ w/ DNQ Values	**1.65E-07**	
TCDD TEQ w/out DNQ Values		**1.05E-08**

Dioxin TCDD TEQ benchmark limit established for this outfall? Yes **TCDD TEQ PERMIT LIMIT = 2.80E-08**

See Table G-VII for abbreviations, definitions, and other explanations.
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TABLE G-I
NPDES PERMIT CA0001309, OUTFALL 001
2008 REPORTING SUMMARY
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Sample Date: 2/24/2008								
ANALYTE	**LAB LOD (ug/L)**	**LAB RL (ug/L)**	**LAB RESULT (ug/L)**	**VALIDATION QUALIFIER**		**1998 WHO TEF**	**TCDD Equivalent (w/DNQ Values) (ug/L)**	**TCDD Equivalent (w/out DNQ Values) (ug/L)**
1,2,3,4,6,7,8-HpCDD	0.00E+00	1.92E-06	1.07E-05	J (DNQ)		0.01	**1.07E-07**	**ND**
1,2,3,4,6,7,8-HpCDF	0.00E+00	2.50E-05	2.28E-06	J (DNQ)		0.01	**2.28E-08**	**ND**
1,2,3,4,7,8,9-HpCDF	8.20E-07	2.50E-05	ND	U		0.01	**ND**	**ND**
1,2,3,4,7,8-HxCDD	2.26E-06	2.50E-05	ND	U		0.1	**ND**	**ND**
1,2,3,4,7,8-HxCDF	1.45E-06	2.50E-05	ND	U		0.1	**ND**	**ND**
1,2,3,6,7,8-HxCDD	2.30E-06	2.50E-05	ND	U		0.1	**ND**	**ND**
1,2,3,6,7,8-HxCDF	1.47E-06	2.50E-05	ND	U		0.1	**ND**	**ND**
1,2,3,7,8,9-HxCDD	2.18E-06	2.50E-05	ND	U		0.1	**ND**	**ND**
1,2,3,7,8,9-HxCDF	9.81E-07	2.50E-05	ND	U		0.1	**ND**	**ND**
1,2,3,7,8-PeCDD	1.10E-06	2.50E-05	ND	U		1	**ND**	**ND**
1,2,3,7,8-PeCDF	1.16E-06	2.50E-05	ND	U		0.05	**ND**	**ND**
2,3,4,6,7,8-HxCDF	7.75E-07	2.50E-05	ND	U		0.1	**ND**	**ND**
2,3,4,7,8-PeCDF	1.32E-06	2.50E-05	ND	U		0.5	**ND**	**ND**
2,3,7,8-TCDD	5.21E-07	5.00E-06	ND	U		1	**ND**	**ND**
2,3,7,8-TCDF	1.05E-06	5.00E-06	ND	U		0.1	**ND**	**ND**
OCDD	0.00E+00	5.00E-05	9.52E-05	--		0.0001	**9.52E-09**	**9.52E-09**
OCDF	0.00E+00	5.00E-05	5.41E-06	J (DNQ)		0.0001	**5.41E-10**	**ND**

TCDD TEQ w/ DNQ Values	**1.40E-07**	
TCDD TEQ w/out DNQ Values		**9.52E-09**

Dioxin TCDD TEQ benchmark limit established for this outfall? Yes **TCDD TEQ PERMIT LIMIT = 2.80E-08**

See Table G-VII for abbreviations, definitions, and other explanations.
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TABLE G-II
NPDES PERMIT CA0001309, OUTFALL 001
2008 MASS BASED RESULTS
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

			1/25/2008		1/29/2008		1/30/2008	
ANALYTE	**UNITS**	**Benchmark Limit Daily Max/Monthly Avg**	**Result**	**CONCENTRATION RESULT VALIDATION QUALIFIER**	**Result**	**CONCENTRATION RESULT VALIDATION QUALIFIER**	**Result**	**CONCENTRATION RESULT VALIDATION QUALIFIER**
Ammonia as Nitrogen (N)	LBS/DAY	13,500/2615	ND	*	ANR	ANR	ANR	ANR
Biochemical Oxygen Demand (BOD 5 day)	LBS/DAY	40,032/26,700	8.95	J* (DNQ)	ANR	ANR	ANR	ANR
Chloride	LBS/DAY	200,160/-	51.84	*	ANR	ANR	ANR	ANR
Surfactants (MBAS)	LBS/DAY	667/-	ND	*	ANR	ANR	ANR	ANR
Nitrate + Nitrite as Nitrogen (N)	LBS/DAY	10,700/-	17.91	*	ANR	ANR	ANR	ANR
Nitrate as Nitrogen (N)	LBS/DAY	10,700/-	17.91	*	ANR	ANR	ANR	ANR
Nitrite-N	LBS/DAY	1,334/-	ND	*	ANR	ANR	ANR	ANR
Oil & Grease	LBS/DAY	20,016/13,344	ND	*	ANR	ANR	ANR	ANR
Perchlorate	LBS/DAY	8/-	ND	*	ANR	ANR	ANR	ANR
Sulfate	LBS/DAY	400,320/-	103.68	*	ANR	ANR	ANR	ANR
Total Cyanide	LBS/DAY	11.3/5.7	ND	*	ANR	ANR	ANR	ANR
Total Dissolved Solids	LBS/DAY	1,270,000/-	801.19	*	ANR	ANR	ANR	ANR
Total Suspended Solids	LBS/DAY	60,048/20,016	268.63	--	ANR	ANR	ANR	ANR
METALS								
Cadmium	LBS/DAY	4.14/2.7	0.0006	J (DNQ)	ANR	ANR	ANR	ANR
Copper	LBS/DAY	18.7/9.5	0.023	--	ANR	ANR	ANR	ANR
Iron	LBS/DAY	400/-	26.86	--	ANR	ANR	ANR	ANR
Lead	LBS/DAY	6.94/3.5	0.016	--	0.005	J (DNQ)	0.0021	J (DNQ)
Manganese	LBS/DAY	66.7/-	0.33	--	ANR	ANR	ANR	ANR
Mercury	LBS/DAY	0.13/0.07	ND	UJ (*III)	ANR	ANR	ANR	ANR
Selenium	LBS/DAY	10.9/5.5	ND	U	ANR	ANR	ANR	ANR
Zinc	LBS/DAY	159/72	0.13	--	ANR	ANR	ANR	ANR
ORGANICS								
1,1-Dichloroethene	LBS/DAY	8/4.3	ND	U	ANR	ANR	ANR	ANR
Trichloroethene	LBS/DAY	6.7/-	ND	U	ANR	ANR	ANR	ANR
ADDITIONAL ANALYTES								
2,4,6-Trichlorophenol	LBS/DAY	17/8.7	ND	U	ANR	ANR	ANR	ANR
2,4-Dinitrotoluene	LBS/DAY	24/12	ND	U	ANR	ANR	ANR	ANR
alpha-BHC	LBS/DAY	0.04/0.013	ND	*	ANR	ANR	ANR	ANR
bis (2-ethylhexyl) Phthalate	LBS/DAY	5.3/-	ND	U	ANR	ANR	ANR	ANR
n-Nitrosodimethylamine	LBS/DAY	21.8/10.8	ND	U	ANR	ANR	ANR	ANR
Pentachlorophenol	LBS/DAY	22/10.9	ND	U	ANR	ANR	ANR	ANR
TCDD TEQ_NoDNQ	LBS/DAY	3.7E-08/1.9E-08	1.06E-10	--	ANR	ANR	ANR	ANR

See Table G-VII for abbreviations, definitions, and other explanations.
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TABLE G-II
NPDES PERMIT CA0001309, OUTFALL 001
2008 MASS BASED RESULTS
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

			2/3/2008		2/24/2008	
ANALYTE	**UNITS**	**Benchmark Limit Daily Max/Monthly Avg**	**Result**	**CONCENTRATION RESULT VALIDATION QUALIFIER**	**Result**	**CONCENTRATION RESULT VALIDATION QUALIFIER**
Ammonia as Nitrogen (N)	LBS/DAY	13,500/2615	ND	*	ND	*
Biochemical Oxygen Demand (BOD 5 day)	LBS/DAY	40,032/26,700	3.60	J* (DNQ)	1.43	J* (DNQ)
Chloride	LBS/DAY	200,160/-	60.92	*	13.45	*
Surfactants (MBAS)	LBS/DAY	667/-	0.28	*	ND	*
Fluoride	LBS/DAY	2,135/-	0.80	J* (DNQ)	ANR	ANR
Nitrate + Nitrite as Nitrogen (N)	LBS/DAY	10,700/-	6.65	*	0.43	*
Nitrate as Nitrogen (N)	LBS/DAY	10,700/-	6.65	*	0.43	*
Nitrite-N	LBS/DAY	1,334/-	ND	*	ND	*
Oil & Grease	LBS/DAY	20,016/13,344	ND	*	1.60	J* (DNQ)
Perchlorate	LBS/DAY	8/-	ND	*	ND	*
Sulfate	LBS/DAY	400,320/-	138.46	M-3*	44.54	M-3*
Total Cyanide	LBS/DAY	11.3/5.7	ND	*	ND	*
Total Dissolved Solids	LBS/DAY	1,270,000/-	803.07	*	201.70	*
Total Residual Chlorine	LBS/DAY	133/-	0.47	J (H)	ANR	ANR
Total Suspended Solids	LBS/DAY	60,048/20,016	332.31	--	31.94	--
METALS						
Antimony	LBS/DAY	8.01/-	0.0012	J (DNQ)	ANR	ANR
Arsenic	LBS/DAY	66.7/-	ND	U	ANR	ANR
Barium	LBS/DAY	1,330/-	0.36	--	ANR	ANR
Beryllium	LBS/DAY	5.34/-	ND	U	ANR	ANR
Cadmium	LBS/DAY	4.14/2.7	0.00044	J (DNQ)	ND	U
Chromium VI	LBS/DAY	21.8/10.8	ND	*	ANR	ANR
Copper	LBS/DAY	18.7/9.5	0.026	--	0.0033	--
Iron	LBS/DAY	400/-	47.08	--	2.94	--
Lead	LBS/DAY	6.94/3.5	0.018	--	0.0013	--
Manganese	LBS/DAY	66.7/-	0.61	--	0.04	--
Mercury	LBS/DAY	0.13/0.07	ND	U	ND	U
Nickel	LBS/DAY	128/47	0.04	--	ANR	ANR
Selenium	LBS/DAY	10.9/5.5	0.0014	J (DNQ)	ND	UJ (B)
Silver	LBS/DAY	5.5/2.7	ND	U	ANR	ANR
Thallium	LBS/DAY	2.7/-	0.0007	J (DNQ)	ANR	ANR
Zinc	LBS/DAY	159/72	0.13	--	0.016	J (DNQ)
ORGANICS						
1,1-Dichloroethene	LBS/DAY	8/4.3	ND	*	ND	*

See Table G-VII for abbreviations, definitions, and other explanations.
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TABLE G-III
NPDES PERMIT CA0001309, OUTFALL 001
2008 SUMMARY OF PERMIT LIMIT EXCEEDANCES
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

DAILY MAX BENCHMARK LIMIT EXCEEDANCES

OUTFALL	LOCATIONS	SAMPLE DATE	ANALYTE	BENCHMARK LIMIT DAILY MAX/ MONTHLY AVERAGE	DAILY MAX RESULT	UNITS	VALIDATION QUALIFIER
Outfall 001	South Slope below Perimeter Pond	01/25/08	Iron	0.3/-	5.7	mg/L	--
Outfall 001	South Slope below Perimeter Pond	01/25/08	Manganese	50/-	71	ug/L	--
Outfall 001	South Slope below Perimeter Pond	02/03/08	Iron	0.3/-	17	mg/L	--
Outfall 001	South Slope below Perimeter Pond	02/03/08	Lead	5.2/2.6	6.4	ug/L	--
Outfall 001	South Slope below Perimeter Pond	02/03/08	Manganese	50/-	220	ug/L	--
Outfall 001	South Slope below Perimeter Pond	02/03/08	Total Residual Chlorine	0.1/-	0.17	mg/L	J (H)
Outfall 001	South Slope below Perimeter Pond	02/24/08	Iron	0.3/-	3.5	mg/L	--

MONTHLY AVERAGE BENCHMARK LIMIT EXCEEDANCES

OUTFALL	LOCATIONS	SAMPLE DATE	ANALYTE	BENCHMARK LIMIT DAILY MAX/ MONTHLY AVERAGE	MONTHLY AVERAGE RESULT	UNITS	VALIDATION QUALIFIER
Outfall 001	South Slope below Perimeter Pond	Jan-08	TCDD TEQ_NoDNQ	2.80E-08/1.40E-08	2.25E-08	ug/L	*
Outfall 001	South Slope below Perimeter Pond	Feb-08	Lead	5.2/2.6	4.0	ug/L	*

See Table G-VII for abbreviations, definitions, and other explanations.
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TABLE G-IV
NPDES PERMIT CA0001309, OUTFALL 002
2008 REPORTING SUMMARY
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

			1/25/2008		2/3/2008		2/20/2008	
ANALYTE	**UNITS**	**Benchmark Limit Daily Max/Monthly Avg**	**RESULT**	**VALIDATION QUALIFIER**	**RESULT**	**VALIDATION QUALIFIER**	**RESULT**	**VALIDATION QUALIFIER**
Ammonia as Nitrogen (N)	mg/L	10.1/-	ND < 0.30	*	ND < 0.30	*	ND < 0.30	*
Biochemical Oxygen Demand (BOD 5 day)	mg/L	30/-	2.6	*	1.4	J* (DNQ)	ND < 0.59	*
Chloride	mg/L	150/-	17	*	24	*	41	*
Specific Conductivity (Lab)	umhos/cm	-/-	310	--	440	--	680	--
Surfactants (MBAS)	mg/L	0.5/-	0.064	J* (DNQ)	0.18	*	0.057	J* (DNQ)
Fluoride	mg/L	1.6/-	ANR	ANR	0.34	J* (DNQ)	ANR	ANR
Nitrate + Nitrite as Nitrogen (N)	mg/L	8.0/-	1.2	*	2.2	*	0.33	*
Nitrate as Nitrogen (N)	mg/L	8.0/-	1.2	*	2.2	*	0.33	*
Nitrite-N	mg/L	1.0/-	ND < 0.090	*	ND < 0.090	*	ND < 0.090	*
Oil & Grease	mg/L	15/-	ND < 1.3	*	1.6	J* (DNQ)	2.2	J* (DNQ)
Perchlorate	ug/L	6.0/-	ND < 1.5	*	ND < 0.65	*	ND < 1.5	*
pH (Field)	pH units	6.5-8.5/-	7.4	*	8.1	*	8.4	*
Total Settleable Solids	ml/L	0.3/-	0.30	--	0.10	--	ND < 0.10	*
Sulfate	mg/L	300/-	52	*	94	*	140	*
Temperature	deg. F	86/-	47	*	50	*	55	*
Total Cyanide	ug/L	8.5/-	ND < 2.2	*	ND < 2.2	*	ND < 2.2	*
Total Dissolved Solids	mg/L	950/-	210	*	350	*	430	*
Hardness	mg/L	-/-	ANR	ANR	170	--	ANR	ANR
Hardness, dissolved	mg/L	-/-	ANR	ANR	160	--	ANR	ANR
Total Organic Carbon	mg/L	-/-	ANR	ANR	9.6	--	ANR	ANR
Total Residual Chlorine	mg/L	0.1/-	ANR	ANR	0.14	J (H)	ANR	ANR
Total Suspended Solids	mg/L	45/-	140	--	ND < 10	*	ND < 10	*
Turbidity	NTU	-/-	140	--	13	--	1.0	--
Volume Discharged	MGD	160/-	2.70	*	NR	*	NR	*
METALS								
Antimony	ug/L	6.0/-	ANR	ANR	0.40	J (DNQ)	ANR	ANR
Antimony, dissolved	ug/L	-/-	ANR	ANR	0.45	J (DNQ)	ANR	ANR
Arsenic	ug/L	10/-	2.4	--	ND < 7.0	U	0.99	J (DNQ)

See Table G-VII for abbreviations, definitions, and other explanations.
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TABLE G-IV
NPDES PERMIT CA0001309, OUTFALL 002
2008 REPORTING SUMMARY
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

			1/25/2008		2/3/2008		2/20/2008	
ANALYTE	**UNITS**	**Benchmark Limit Daily Max/Monthly Avg**	**RESULT**	**VALIDATION QUALIFIER**	**RESULT**	**VALIDATION QUALIFIER**	**RESULT**	**VALIDATION QUALIFIER**
Arsenic, dissolved	ug/L	-/-	ND < 1.4	U	ND < 10	U ($)	1.1	J (*III)
Barium	mg/L	1.0/-	0.065	--	0.032	--	0.043	*
Barium, dissolved	mg/L	-/-	0.019	--	0.026	--	0.041	*
Beryllium	ug/L	4.0/-	0.29	J (DNQ)	ND < 0.90	U	ND < 0.20	U
Beryllium, dissolved	ug/L	-/-	ND < 0.40	U	ND < 0.90	U	ND < 0.20	UJ (*III)
Boron	mg/L	-/-	ANR	ANR	0.070	--	ANR	ANR
Boron, dissolved	mg/L	-/-	ANR	ANR	0.063	--	ANR	ANR
Calcium	mg/L	-/-	ANR	ANR	46	--	ANR	ANR
Calcium, Dissolved	mg/L	-/-	ANR	ANR	44	--	ANR	ANR
Cadmium	ug/L	3.1/-	0.18	J (DNQ)	ND < 0.11	U	ND < 0.11	U
Cadmium, dissolved	ug/L	-/-	ND < 0.22	U	0.14	J (DNQ)	ND < 0.11	UJ (*III)
Chromium	ug/L	16.3/-	9.7	--	2.1	J (DNQ)	1.1	J (DNQ)
Chromium, dissolved	ug/L	-/-	ND < 1.4	U	ND < 2.0	U	ND < 0.70	UJ (*III)
Chromium VI	ug/L	16.3/-	ANR	ANR	ND < 0.20	*	ANR	ANR
Cobalt	ug/L	-/-	ANR	ANR	ND < 2.0	U	ANR	ANR
Cobalt, dissolved	ug/L	-/-	ANR	ANR	ND < 2.0	U	ANR	ANR
Copper	ug/L	14.0/-	8.4	--	3.1	--	2.3	--
Copper, dissolved	ug/L	-/-	3.1	J (DNQ)	2.7	--	1.8	J (DNQ,*III)
Iron	mg/L	0.3/-	4.3	--	0.62	--	0.073	*
Iron, dissolved	mg/L	-/-	0.10	--	0.059	--	ND < 0.015	*
Lead	ug/L	5.2/-	7.1	--	0.38	J (DNQ)	ND < 0.30	U
Lead, dissolved	ug/L	-/-	ND < 0.60	U	ND < 0.30	U	ND < 0.30	UJ (*III)
Magnesium	mg/L	-/-	ANR	ANR	13	--	ANR	ANR
Magnesium, Dissolved	mg/L	-/-	ANR	ANR	12	--	ANR	ANR
Manganese	ug/L	50/-	120	--	16	J (DNQ)	20	--
Manganese, dissolved	ug/L	-/-	7.7	--	ND < 7.0	U	12	J (*III)
Mercury	ug/L	0.10/-	ND < 0.050	U	ND < 0.050	U	ND < 0.050	U
Mercury, dissolved	ug/L	-/-	ND < 0.050	U	ND < 0.050	U	ND < 0.050	U
Nickel	ug/L	96/-	7.2	--	2.7	J (DNQ)	ND < 0.90	U

See Table G-VII for abbreviations, definitions, and other explanations.
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TABLE G-IV
NPDES PERMIT CA0001309, OUTFALL 002
2008 REPORTING SUMMARY
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

			1/25/2008		2/3/2008		2/20/2008	
ANALYTE	**UNITS**	**Benchmark Limit Daily Max/Monthly Avg**	**RESULT**	**VALIDATION QUALIFIER**	**RESULT**	**VALIDATION QUALIFIER**	**RESULT**	**VALIDATION QUALIFIER**
Nickel, dissolved	ug/L	-/-	2.2	J (DNQ)	ND < 2.0	U	2.8	J (*III)
Selenium	ug/L	8.2/-	ND < 0.30	U	0.38	J (DNQ)	0.68	J (DNQ)
Selenium, dissolved	ug/L	-/-	ND < 0.60	U	0.44	J (DNQ)	0.86	J (DNQ)
Silver	ug/L	4.1/-	ANR	ANR	ND < 0.30	U	ANR	ANR
Silver, dissolved	ug/L	-/-	ANR	ANR	ND < 0.30	U	ANR	ANR
Thallium	ug/L	2.0/-	ANR	ANR	ND < 0.20	U	ANR	ANR
Thallium, dissolved	ug/L	-/-	ANR	ANR	ND < 0.20	U	ANR	ANR
Vanadium	ug/L	-/-	ANR	ANR	ND < 3.0	U	ANR	ANR
Vanadium, dissolved	ug/L	-/-	ANR	ANR	ND < 3.0	U	ANR	ANR
Zinc	ug/L	119/-	36	--	6.6	J (DNQ)	26	*
Zinc, dissolved	ug/L	-/-	ND < 6.0	U	9.1	J (DNQ)	ND < 6.0	*
ORGANICS								
Benzene	ug/L	-/-	ND < 0.28	U	ND < 0.28	*	ND < 0.28	*
Carbon Tetrachloride	ug/L	-/-	ND < 0.28	U	ND < 0.28	*	ND < 0.28	*
Chloroform	ug/L	-/-	ND < 0.33	U	ND < 0.33	*	ND < 0.33	*
1,1-Dichloroethane	ug/L	-/-	ND < 0.27	U	ND < 0.27	*	ND < 0.27	*
1,2-Dichloroethane	ug/L	-/-	ND < 0.28	U	ND < 0.28	*	ND < 0.28	*
1,1-Dichloroethene	ug/L	6.0/-	ND < 0.42	U	ND < 0.42	*	ND < 0.42	*
1,4-Dioxane	ug/L	-/-	ANR	ANR	ND < 1.0	*	ANR	ANR
Ethylbenzene	ug/L	-/-	ND < 0.25	U	ND < 0.25	*	ND < 0.25	*
Tetrachloroethene	ug/L	-/-	ND < 0.32	U	ND < 0.32	*	ND < 0.32	*
Toluene	ug/L	-/-	ND < 0.36	U	ND < 0.36	*	ND < 0.36	*
Xylenes (Total)	ug/L	-/-	ND < 0.90	U	ND < 0.90	*	ND < 0.90	*
1,1,1-Trichloroethane	ug/L	-/-	ND < 0.30	U	ND < 0.30	*	ND < 0.30	*
1,1,2-Trichloroethane	ug/L	-/-	ND < 0.30	U	ND < 0.30	*	ND < 0.30	*
Trichloroethene	ug/L	5.0/-	1.0	J (DNQ)	1.7	*	ND < 0.26	*
Trichlorofluoromethane	ug/L	-/-	ND < 0.34	U	ND < 0.34	*	ND < 0.34	*
Trichlorotrifluoroethane (Freon 113)	ug/L	-/-	ANR	ANR	ND < 0.50	*	ND < 0.50	*
Vinyl Chloride	ug/L	-/-	ND < 0.30	U	ND < 0.30	*	ND < 0.30	*

See Table G-VII for abbreviations, definitions, and other explanations.
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TABLE G-IV
NPDES PERMIT CA0001309, OUTFALL 002
2008 REPORTING SUMMARY
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

			1/25/2008		2/3/2008		2/20/2008	
ANALYTE	**UNITS**	**Benchmark Limit Daily Max/Monthly Avg**	**RESULT**	**VALIDATION QUALIFIER**	**RESULT**	**VALIDATION QUALIFIER**	**RESULT**	**VALIDATION QUALIFIER**
TPH								
EFH (C13 - C22)	mg/L	-/-	ANR	ANR	ND < 0.094	*	ANR	ANR
GRO (C4 - C12)	mg/L	-/-	ANR	ANR	ND < 0.025	*	ANR	ANR
TRPH	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
ADDITIONAL ANALYTES								
1,2-Dichloro-1,1,2-trifluoroethane	ug/L	-/-	ANR	ANR	ND < 2.5	*	ANR	ANR
1,1,2,2-Tetrachloroethane	ug/L	-/-	ANR	ANR	ND < 0.24	*	ANR	ANR
1,2,4-Trichlorobenzene	ug/L	-/-	ANR	ANR	ND < 0.094	U	ANR	ANR
1,2-Dichlorobenzene	ug/L	-/-	ANR	ANR	ND < 0.094	U	ANR	ANR
1,2-Dichlorobenzene	ug/L	-/-	ANR	ANR	ND < 0.32	*	ANR	ANR
1,2-Dichloropropane	ug/L	-/-	ANR	ANR	ND < 0.35	*	ANR	ANR
1,2-Diphenylhydrazine/Azobenzene	ug/L	-/-	ANR	ANR	ND < 0.094	U	ANR	ANR
1,3-Dichlorobenzene	ug/L	-/-	ANR	ANR	ND < 0.094	U	ANR	ANR
1,3-Dichlorobenzene	ug/L	-/-	ANR	ANR	ND < 0.35	*	ANR	ANR
1,4-Dichlorobenzene	ug/L	-/-	ANR	ANR	ND < 0.19	U	ANR	ANR
1,4-Dichlorobenzene	ug/L	-/-	ANR	ANR	ND < 0.37	*	ANR	ANR
2,4,6-Trichlorophenol	ug/L	13.0/-	ND < 0.097	U	ND < 0.094	U	ND < 0.094	*
2,4-Dichlorophenol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
2,4-Dimethylphenol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
2,4-Dinitrophenol	ug/L	-/-	ANR	ANR	ND < 0.85	U	ANR	ANR
2,4-Dinitrotoluene	ug/L	18.3/-	ND < 0.19	U	ND < 0.19	U	ND < 0.19	*
2,6-Dinitrotoluene	ug/L	-/-	ANR	ANR	ND < 0.094	U	ANR	ANR
2-Chloroethylvinylether	ug/L	-/-	ANR	ANR	ND < 1.8	*	ANR	ANR
2-Chloronaphthalene	ug/L	-/-	ANR	ANR	ND < 0.094	U	ANR	ANR
2-Chlorophenol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
2-Methyl-4,6-dinitrophenol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
2-Nitrophenol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
3,3'-Dichlorobenzidine	ug/L	-/-	ANR	ANR	ND < 0.38	U	ANR	ANR
4,4'-DDD	ug/L	-/-	ANR	ANR	ND < 0.0019	*	ANR	ANR

See Table G-VII for abbreviations, definitions, and other explanations.
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TABLE G-IV
NPDES PERMIT CA0001309, OUTFALL 002
2008 REPORTING SUMMARY
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

			1/25/2008		2/3/2008		2/20/2008	
ANALYTE	**UNITS**	**Benchmark Limit Daily Max/Monthly Avg**	**RESULT**	**VALIDATION QUALIFIER**	**RESULT**	**VALIDATION QUALIFIER**	**RESULT**	**VALIDATION QUALIFIER**
4,4'-DDE	ug/L	-/-	ANR	ANR	ND < 0.0028	*	ANR	ANR
4,4'-DDT	ug/L	-/-	ANR	ANR	ND < 0.0038	*	ANR	ANR
4-Bromophenylphenylether	ug/L	-/-	ANR	ANR	ND < 0.094	U	ANR	ANR
4-Chloro-3-methylphenol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
4-Chlorophenylphenylether	ug/L	-/-	ANR	ANR	ND < 0.094	U	ANR	ANR
4-Nitrophenol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthene	ug/L	-/-	ANR	ANR	ND < 0.094	U	ANR	ANR
Acenaphthylene	ug/L	-/-	ANR	ANR	ND < 0.094	U	ANR	ANR
Acrolein	ug/L	-/-	ANR	ANR	ND < 4.0	*	ANR	ANR
Acrylonitrile	ug/L	-/-	ANR	ANR	ND < 0.70	*	ANR	ANR
Acute Toxicity	% SURVIVAL	70-100/-	ANR	ANR	100	*	ANR	ANR
Aldrin	ug/L	-/-	ANR	ANR	ND < 0.0014	*	ANR	ANR
alpha-BHC	ug/L	0.03/-	ND < 0.0024	*	ND < 0.0024	*	ND < 0.0024	*
Anthracene	ug/L	-/-	ANR	ANR	ND < 0.094	U	ANR	ANR
Aroclor-1016	ug/L	-/-	ANR	ANR	ND < 0.42	*	ANR	ANR
Aroclor-1221	ug/L	-/-	ANR	ANR	ND < 0.24	*	ANR	ANR
Aroclor-1232	ug/L	-/-	ANR	ANR	ND < 0.24	*	ANR	ANR
Aroclor-1242	ug/L	-/-	ANR	ANR	ND < 0.24	*	ANR	ANR
Aroclor-1248	ug/L	-/-	ANR	ANR	ND < 0.24	*	ANR	ANR
Aroclor-1254	ug/L	-/-	ANR	ANR	ND < 0.24	*	ANR	ANR
Aroclor-1260	ug/L	-/-	ANR	ANR	ND < 0.28	*	ANR	ANR
Benzidine	ug/L	-/-	ANR	ANR	ND < 0.94	UJ (*III)	ANR	ANR
Benzo(a)anthracene	ug/L	-/-	ANR	ANR	ND < 0.094	U	ANR	ANR
Benzo(a)pyrene	ug/L	-/-	ANR	ANR	ND < 0.094	U	ANR	ANR
Benzo(b)fluoranthene	ug/L	-/-	ANR	ANR	ND < 0.094	U	ANR	ANR
Benzo(g,h,I)perylene	ug/L	-/-	ANR	ANR	ND < 0.094	U	ANR	ANR
Benzo(k)fluoranthene	ug/L	-/-	ANR	ANR	ND < 0.094	U	ANR	ANR
beta-BHC	ug/L	-/-	ANR	ANR	ND < 0.0038	*	ANR	ANR
bis (2-Chloroethyl) ether	ug/L	-/-	ANR	ANR	ND < 0.094	U	ANR	ANR

See Table G-VII for abbreviations, definitions, and other explanations.
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TABLE G-IV
NPDES PERMIT CA0001309, OUTFALL 002
2008 REPORTING SUMMARY
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

			1/25/2008		2/3/2008		2/20/2008	
ANALYTE	**UNITS**	**Benchmark Limit Daily Max/Monthly Avg**	**RESULT**	**VALIDATION QUALIFIER**	**RESULT**	**VALIDATION QUALIFIER**	**RESULT**	**VALIDATION QUALIFIER**
bis (2-ethylhexyl) Phthalate	ug/L	4.0/-	5.7	--	ND < 4.7	U (B)	3.6	J* (DNQ)
bis(2-Chloroethoxy) methane	ug/L	-/-	ANR	ANR	ND < 0.094	U	ANR	ANR
bis(2-Chloroisopropyl) ether	ug/L	-/-	ANR	ANR	ND < 0.094	U	ANR	ANR
Bromodichloromethane	ug/L	-/-	ANR	ANR	ND < 0.30	*	ANR	ANR
Bromoform	ug/L	-/-	ANR	ANR	ND < 0.40	*	ANR	ANR
Bromomethane	ug/L	-/-	ANR	ANR	ND < 0.42	*	ANR	ANR
Butylbenzylphthalate	ug/L	-/-	ANR	ANR	ND < 4.7	U (B)	ANR	ANR
Chlordane	ug/L	-/-	ANR	ANR	ND < 0.028	*	ANR	ANR
Chlorobenzene	ug/L	-/-	ANR	ANR	ND < 0.36	*	ANR	ANR
Chloroethane	ug/L	-/-	ANR	ANR	ND < 0.40	*	ANR	ANR
Chloromethane	ug/L	-/-	ANR	ANR	ND < 0.40	*	ANR	ANR
Chronic Toxicity	TUC	1.0/-	1.0	*	1.0	*	ANR	ANR
Chrysene	ug/L	-/-	ANR	ANR	ND < 0.094	U	ANR	ANR
cis-1,2-Dichloroethene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
cis-1,3-Dichloropropene	ug/L	-/-	ANR	ANR	ND < 0.22	*	ANR	ANR
Cyclohexane	ug/L	-/-	ANR	ANR	ND < 2.5	*	ANR	ANR
delta-BHC	ug/L	-/-	ANR	ANR	ND < 0.0033	*	ANR	ANR
Dibenzo(a,h)anthracene	ug/L	-/-	ANR	ANR	ND < 0.094	U	ANR	ANR
Dibromochloromethane	ug/L	-/-	ANR	ANR	ND < 0.28	*	ANR	ANR
Dieldrin	ug/L	-/-	ANR	ANR	ND < 0.0019	*	ANR	ANR
Diethylphthalate	ug/L	-/-	ANR	ANR	ND < 0.094	U	ANR	ANR
Dimethylphthalate	ug/L	-/-	ANR	ANR	ND < 0.094	U	ANR	ANR
Di-n-butylphthalate	ug/L	-/-	ANR	ANR	ND < 0.19	U	ANR	ANR
Di-n-octylphthalate	ug/L	-/-	ANR	ANR	ND < 0.094	U	ANR	ANR
Endosulfan I	ug/L	-/-	ANR	ANR	ND < 0.0019	*	ANR	ANR
Endosulfan II	ug/L	-/-	ANR	ANR	ND < 0.0028	*	ANR	ANR
Endosulfan sulfate	ug/L	-/-	ANR	ANR	ND < 0.0028	*	ANR	ANR
Endrin	ug/L	-/-	ANR	ANR	ND < 0.0019	*	ANR	ANR
Endrin aldehyde	ug/L	-/-	ANR	ANR	ND < 0.0019	*	ANR	ANR

See Table G-VII for abbreviations, definitions, and other explanations.
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TABLE G-IV
NPDES PERMIT CA0001309, OUTFALL 002
2008 REPORTING SUMMARY
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

			1/25/2008		2/3/2008		2/20/2008	
ANALYTE	**UNITS**	**Benchmark Limit Daily Max/Monthly Avg**	**RESULT**	**VALIDATION QUALIFIER**	**RESULT**	**VALIDATION QUALIFIER**	**RESULT**	**VALIDATION QUALIFIER**
Endrin ketone	ug/L	-/-	ANR	ANR	ND < 0.0028	*	ANR	ANR
Fluoranthene	ug/L	-/-	ANR	ANR	ND < 0.094	U	ANR	ANR
Fluorene	ug/L	-/-	ANR	ANR	ND < 0.094	U	ANR	ANR
Heptachlor	ug/L	-/-	ANR	ANR	ND < 0.0028	*	ANR	ANR
Heptachlor epoxide	ug/L	-/-	ANR	ANR	ND < 0.0024	*	ANR	ANR
Hexachlorobenzene	ug/L	-/-	ANR	ANR	ND < 0.094	U	ANR	ANR
Hexachlorobutadiene	ug/L	-/-	ANR	ANR	ND < 0.19	U	ANR	ANR
Hexachlorocyclopentadiene	ug/L	-/-	ANR	ANR	ND < 0.094	UJ (C)	ANR	ANR
Hexachloroethane	ug/L	-/-	ANR	ANR	ND < 0.19	U	ANR	ANR
Hydrazine	ug/L	-/-	ANR	ANR	ND < 0.15	U	ANR	ANR
Indeno(1,2,3-cd)pyrene	ug/L	-/-	ANR	ANR	ND < 0.094	U	ANR	ANR
Isophorone	ug/L	-/-	ANR	ANR	ND < 0.094	U	ANR	ANR
Lindane (gamma-BHC)	ug/L	-/-	ANR	ANR	ND < 0.0028	*	ANR	ANR
Methoxychlor	ug/L	-/-	ANR	ANR	ND < 0.0033	*	ANR	ANR
Methylene Chloride	ug/L	-/-	ANR	ANR	ND < 0.95	*	ANR	ANR
Monomethyl Hydrazine	ug/L	-/-	ANR	ANR	ND < 0.56	U	ANR	ANR
Naphthalene	ug/L	-/-	ANR	ANR	ND < 0.094	U	ANR	ANR
Nitrobenzene	ug/L	-/-	ANR	ANR	ND < 0.094	U	ANR	ANR
n-Nitrosodimethylamine	ug/L	16.3/-	ND < 0.097	U	ND < 0.094	U	ND < 0.094	*
n-Nitroso-di-n-propylamine	ug/L	-/-	ANR	ANR	ND < 0.094	U	ANR	ANR
n-Nitrosodiphenylamine	ug/L	-/-	ANR	ANR	ND < 0.094	U	ANR	ANR
Pentachlorophenol	ug/L	16.5/-	ND < 0.097	U	ND < 0.094	U	ND < 0.094	*
Phenanthrene	ug/L	-/-	ANR	ANR	ND < 0.094	U	ANR	ANR
Phenol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Pyrene	ug/L	-/-	ANR	ANR	ND < 0.094	U	ANR	ANR
Toxaphene	ug/L	-/-	ANR	ANR	ND < 0.066	*	ANR	ANR
trans-1,2-Dichloroethene	ug/L	-/-	ANR	ANR	ND < 0.27	*	ANR	ANR
trans-1,3-Dichloropropene	ug/L	-/-	ANR	ANR	ND < 0.32	*	ANR	ANR
Unsymmetrical Dimethyl Hydrazine	ug/L	-/-	ANR	ANR	ND < 0.32	U	ANR	ANR

See Table G-VII for abbreviations, definitions, and other explanations.
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TABLE G-IV
NPDES PERMIT CA0001309, OUTFALL 002
2008 REPORTING SUMMARY
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

			1/25/2008			2/3/2008		
ANALYTE	**UNITS**	**Benchmark Limit Daily Max/Monthly Avg**	**RESULT**	**MDA**	**VALIDATION QUALIFIER**	**RESULT**	**MDA**	**VALIDATION QUALIFIER**
RADIOACTIVITY								
Gross Alpha	pCi/L	15/-	2.21 ± 1.1	1.4	J (R,Q)	0.505 ± 0.72	1.1	UJ (R)
Gross Beta	pCi/L	50/-	4.33 ± 1.0	1.5	--	4.62 ± 0.77	1.0	--
Strontium-90	pCi/L	8.0/-	0.076 ± 0.32	0.68	UJ (H)	-0.034 ± 0.31	0.73	UJ (H)
Total Combined Radium-226 & Radium 228	pCi/L	5.0/-	0.206 ± 0.488	1.32	UJ (H)	-0.019 ± 0.42	1.22	UJ (H)
Tritium	pCi/L	20000/-	-77.4 ± 91	160	U	-48.2 ± 81	150	U
Cs-137 (G)	pCi/L	----	ND < 0.53	0.53	UJ (H)	ND < 1.5	1.5	UJ (H)
K-40 (G)	pCi/L	----	ND < 12	12	UJ (H)	ND < 33	33	UJ (H)
Uranium, Total	pCi/L	20/-	0.636 ± 0.070	0.022	J (H)	0.701 ± 0.077	0.022	J (H)

			2/20/2008		
ANALYTE	**UNITS**	**Benchmark Limit Daily Max/Monthly Avg**	**RESULT**	**MDA**	**VALIDATION QUALIFIER**
RADIOACTIVITY					
Gross Alpha	pCi/L	15/-	3.00 ± 2.0	2.8	J (R)
Gross Beta	pCi/L	50/-	2.91 ± 2.0	3.3	U
Strontium-90	pCi/L	8.0/-	0.137 ± 0.49	1.1	UJ (H)
Total Combined Radium-226 & Radium 228	pCi/L	5.0/-	0.013 ± 0.44	1.23	UJ (H)
Tritium	pCi/L	20000/-	-40.9 ± 84	140	UJ (R)
Cs-137 (G)	pCi/L	----	ND < 1.7	1.7	UJ (H)
K-40 (G)	pCi/L	----	ND < 39	39	UJ (H)
Uranium, Total	pCi/L	20/-	1.30 ± 0.15	0.023	J (H)

See Table G-VII for abbreviations, definitions, and other explanations.
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TABLE G-IV
NPDES PERMIT CA0001309, OUTFALL 002
2008 REPORTING SUMMARY
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Sample Date: 1/25/2008

ANALYTE	LAB LOD (ug/L)	LAB RL (ug/L)	LAB RESULT (ug/L)	VALIDATION QUALIFIER		1998 WHO TEF	TCDD Equivalent (w/DNQ Values) (ug/L)	TCDD Equivalent (w/out DNQ Values) (ug/L)
1,2,3,4,6,7,8-HpCDD	0.00E+00	2.50E-05	8.60E-05	--		0.01	**8.60E-07**	**8.60E-07**
1,2,3,4,6,7,8-HpCDF	0.00E+00	2.50E-05	1.88E-05	J (DNQ)		0.01	**1.88E-07**	**ND**
1,2,3,4,7,8,9-HpCDF	2.78E-06	2.50E-05	ND	U		0.01	**ND**	**ND**
1,2,3,4,7,8-HxCDD	2.32E-06	2.50E-05	ND	U		0.1	**ND**	**ND**
1,2,3,4,7,8-HxCDF	8.15E-07	2.50E-05	ND	U		0.1	**ND**	**ND**
1,2,3,6,7,8-HxCDD	2.81E-06	2.50E-05	ND	U		0.1	**ND**	**ND**
1,2,3,6,7,8-HxCDF	0.00E+00	2.50E-05	1.01E-06	J (DNQ)		0.1	**1.01E-07**	**ND**
1,2,3,7,8,9-HxCDD	0.00E+00	2.50E-05	2.42E-06	J (DNQ)		0.1	**2.42E-07**	**ND**
1,2,3,7,8,9-HxCDF	8.54E-07	2.50E-05	ND	U		0.1	**ND**	**ND**
1,2,3,7,8-PeCDD	1.69E-06	2.50E-05	ND	U		1	**ND**	**ND**
1,2,3,7,8-PeCDF	1.12E-06	2.50E-05	ND	U		0.05	**ND**	**ND**
2,3,4,6,7,8-HxCDF	1.02E-06	2.50E-05	ND	U		0.1	**ND**	**ND**
2,3,4,7,8-PeCDF	1.21E-06	2.50E-05	ND	U		0.5	**ND**	**ND**
2,3,7,8-TCDD	9.25E-07	5.00E-06	ND	U		1	**ND**	**ND**
2,3,7,8-TCDF	8.12E-07	5.00E-06	ND	U		0.1	**ND**	**ND**
OCDD	0.00E+00	5.00E-05	1.03E-03	--		0.0001	**1.03E-07**	**1.03E-07**
OCDF	0.00E+00	5.00E-05	5.62E-05	--		0.0001	**5.62E-09**	**5.62E-09**

TCDD TEQ w/ DNQ Values	**1.50E-06**	
TCDD TEQ w/out DNQ Values		**9.69E-07**

Dioxin TCDD TEQ benchmark limit established for this outfall? Yes **TCDD TEQ PERMIT LIMIT = 2.80E-08**

See Table G-VII for abbreviations, definitions, and other explanations.
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TABLE G-IV
NPDES PERMIT CA0001309, OUTFALL 002
2008 REPORTING SUMMARY
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Sample Date: 02/03/2008

ANALYTE	LAB LOD (ug/L)	LAB RL (ug/L)	LAB RESULT (ug/L)	VALIDATION QUALIFIER		1998 WHO TEF	TCDD Equivalent (w/DNQ Values) (ug/L)	TCDD Equivalent (w/out DNQ Values) (ug/L)
1,2,3,4,6,7,8-HpCDD	0.00E+00	2.50E-05	1.52E-05	J (DNQ)		0.01	**1.52E-07**	**ND**
1,2,3,4,6,7,8-HpCDF	0.00E+00	2.50E-05	4.32E-06	J (DNQ)		0.01	**4.32E-08**	**ND**
1,2,3,4,7,8,9-HpCDF	1.33E-06	2.50E-05	ND	U		0.01	**ND**	**ND**
1,2,3,4,7,8-HxCDD	1.35E-06	2.50E-05	ND	U		0.1	**ND**	**ND**
1,2,3,4,7,8-HxCDF	7.49E-07	2.50E-05	ND	U		0.1	**ND**	**ND**
1,2,3,6,7,8-HxCDD	2.43E-06	2.50E-05	ND	U		0.1	**ND**	**ND**
1,2,3,6,7,8-HxCDF	7.84E-07	2.50E-05	ND	U		0.1	**ND**	**ND**
1,2,3,7,8,9-HxCDD	1.35E-06	2.50E-05	ND	U		0.1	**ND**	**ND**
1,2,3,7,8,9-HxCDF	1.10E-06	2.50E-05	ND	U		0.1	**ND**	**ND**
1,2,3,7,8-PeCDD	7.54E-07	2.50E-05	ND	U		1	**ND**	**ND**
1,2,3,7,8-PeCDF	8.29E-07	2.50E-05	ND	U		0.05	**ND**	**ND**
2,3,4,6,7,8-HxCDF	8.49E-07	2.50E-05	ND	U		0.1	**ND**	**ND**
2,3,4,7,8-PeCDF	8.01E-07	2.50E-05	ND	U		0.5	**ND**	**ND**
2,3,7,8-TCDD	6.11E-07	5.00E-06	ND	U		1	**ND**	**ND**
2,3,7,8-TCDF	5.88E-07	5.00E-06	ND	U		0.1	**ND**	**ND**
OCDD	0.00E+00	5.00E-05	1.43E-04	--		0.0001	**1.43E-08**	**1.43E-08**
OCDF	0.00E+00	5.00E-05	1.10E-05	J (DNQ)		0.0001	**1.10E-09**	**ND**

TCDD TEQ w/ DNQ Values	**2.11E-07**	
TCDD TEQ w/out DNQ Values		**1.43E-08**

Dioxin TCDD TEQ benchmark limit established for this outfall? Yes **TCDD TEQ PERMIT LIMIT = 2.80E-08**

See Table G-VII for abbreviations, definitions, and other explanations.
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TABLE G-IV
NPDES PERMIT CA0001309, OUTFALL 002
2008 REPORTING SUMMARY
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Sample Date: 02/20/2008

ANALYTE	LAB LOD (ug/L)	LAB RL (ug/L)	LAB RESULT (ug/L)	VALIDATION QUALIFIER		1998 WHO TEF	TCDD Equivalent (w/DNQ Values) (ug/L)	TCDD Equivalent (w/out DNQ Values) (ug/L)
1,2,3,4,6,7,8-HpCDD	6.04E-06	2.50E-05	ND	U		0.01	**ND**	**ND**
1,2,3,4,6,7,8-HpCDF	5.16E-06	2.50E-05	ND	U		0.01	**ND**	**ND**
1,2,3,4,7,8,9-HpCDF	5.36E-06	2.50E-05	ND	U		0.01	**ND**	**ND**
1,2,3,4,7,8-HxCDD	2.91E-06	2.50E-05	ND	U		0.1	**ND**	**ND**
1,2,3,4,7,8-HxCDF	1.83E-06	2.50E-05	ND	U		0.1	**ND**	**ND**
1,2,3,6,7,8-HxCDD	2.82E-06	2.50E-05	ND	U		0.1	**ND**	**ND**
1,2,3,6,7,8-HxCDF	1.73E-06	2.50E-05	ND	U		0.1	**ND**	**ND**
1,2,3,7,8,9-HxCDD	2.76E-06	2.50E-05	ND	U		0.1	**ND**	**ND**
1,2,3,7,8,9-HxCDF	2.49E-06	2.50E-05	ND	U		0.1	**ND**	**ND**
1,2,3,7,8-PeCDD	2.51E-06	2.50E-05	ND	U		1	**ND**	**ND**
1,2,3,7,8-PeCDF	1.88E-06	2.50E-05	ND	U		0.05	**ND**	**ND**
2,3,4,6,7,8-HxCDF	1.99E-06	2.50E-05	ND	U		0.1	**ND**	**ND**
2,3,4,7,8-PeCDF	1.69E-06	2.50E-05	ND	U		0.5	**ND**	**ND**
2,3,7,8-TCDD	2.05E-06	5.00E-06	ND	U		1	**ND**	**ND**
2,3,7,8-TCDF	1.91E-06	5.00E-06	ND	U		0.1	**ND**	**ND**
OCDD	1.09E-05	5.00E-05	ND	U		0.0001	**ND**	**ND**
OCDF	6.55E-06	5.00E-05	ND	U		0.0001	**ND**	**ND**

TCDD TEQ w/ DNQ Values	**ND**	
TCDD TEQ w/out DNQ Values		**ND**

Dioxin TCDD TEQ benchmark limit established for this outfall? Yes **TCDD TEQ PERMIT LIMIT = 2.80E-08**

See Table G-VII for abbreviations, definitions, and other explanations.
Table provided by MWH.
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TABLE G-V
NPDES PERMIT CA0001309, OUTFALL 002,
2008 MASS BASED RESULTS
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

			1/25/2008	
ANALYTE	**UNITS**	**Benchmark Limit Daily Max/Monthly Avg**	**Result**	**CONCENTRATION RESULT VALIDATION QUALIFIER**
Ammonia as Nitrogen (N)	LBS/DAY	13,500/-	ND	*
Biochemical Oxygen Demand (BOD 5 day)	LBS/DAY	40,032/-	58.56	*
Chloride	LBS/DAY	200,160/-	382.81	*
Surfactants (MBAS)	LBS/DAY	667/-	1.44	J* (DNQ)
Nitrate + Nitrite as Nitrogen (N)	LBS/DAY	10,700/-	27.02	*
Nitrate as Nitrogen (N)	LBS/DAY	10,700/-	27.02	*
Nitrite-N	LBS/DAY	1,334/-	ND	*
Oil & Grease	LBS/DAY	20,016/-	ND	*
Perchlorate	LBS/DAY	8/-	ND	*
Sulfate	LBS/DAY	400,320/-	1170.94	*
Total Cyanide	LBS/DAY	11.3/-	ND	*
Total Dissolved Solids	LBS/DAY	1,270,000/-	4728.78	*
Total Suspended Solids	LBS/DAY	60,048/-	3152.72	--
METALS				
Arsenic	LBS/DAY	66.7/-	0.05	--
Barium	LBS/DAY	1,330/-	1.46	--
Beryllium	LBS/DAY	5.34/-	0.007	J (DNQ)
Cadmium	LBS/DAY	4.14/-	0.0041	J (DNQ)
Chromium	LBS/DAY	21.8/-	0.22	--
Copper	LBS/DAY	18.7/-	0.19	--
Iron	LBS/DAY	400/-	96.83	--
Lead	LBS/DAY	6.94/-	0.16	--
Manganese	LBS/DAY	66.7/-	2.70	--
Mercury	LBS/DAY	0.13/-	ND	U
Nickel	LBS/DAY	128/-	0.16	--
Selenium	LBS/DAY	10.9/-	ND	U
Zinc	LBS/DAY	159/-	0.81	--
ORGANICS				
1,1-Dichloroethene	LBS/DAY	8/-	ND	U
Trichloroethene	LBS/DAY	6.7/-	0.02	J (DNQ)
ADDITIONAL ANALYTES				
2,4,6-Trichlorophenol	LBS/DAY	17/-	ND	U
2,4-Dinitrotoluene	LBS/DAY	24/-	ND	U
alpha-BHC	LBS/DAY	0.04/-	ND	*
bis (2-ethylhexyl) Phthalate	LBS/DAY	5.3/-	0.13	--
n-Nitrosodimethylamine	LBS/DAY	21.8/-	ND	U
Pentachlorophenol	LBS/DAY	22/-	ND	U
TCDD TEQ_NoDNQ	LBS/DAY	3.7E-08/-	2.18E-08	--

See Table G-VII for abbreviations, definitions, and other explanations.
Table provided by MWH.
Haley & Aldrich, Inc.
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TABLE G-V
NPDES PERMIT CA0001309, OUTFALL 002,
2008 MASS BASED RESULTS
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

			2/3/2008	
ANALYTE	**UNITS**	**Benchmark Limit Daily Max/Monthly Avg**	**Result**	**CONCENTRATION RESULT VALIDATION QUALIFIER**
Ammonia as Nitrogen (N)	LBS/DAY	13,500/-	ND	*
Biochemical Oxygen Demand (BOD 5 day)	LBS/DAY	40,032/-	1868.16	J* (DNQ)
Chloride	LBS/DAY	200,160/-	32,025.60	*
Surfactants (MBAS)	LBS/DAY	667/-	240.19	*
Fluoride	LBS/DAY	2,135/-	453.70	J* (DNQ)
Nitrate + Nitrite as Nitrogen (N)	LBS/DAY	10,700/-	2935.68	*
Nitrate as Nitrogen (N)	LBS/DAY	10,700/-	2935.68	*
Nitrite-N	LBS/DAY	1,334/-	ND	*
Oil & Grease	LBS/DAY	20,016/-	2135.04	J* (DNQ)
Perchlorate	LBS/DAY	8/-	ND	*
Sulfate	LBS/DAY	400,320/-	125,433.60	*
Total Cyanide	LBS/DAY	11.3/-	ND	*
Total Dissolved Solids	LBS/DAY	1,270,000/-	467,040.01	*
Total Residual Chlorine	LBS/DAY	133/-	186.82	J (H)
Total Suspended Solids	LBS/DAY	60,048/-	ND	*
METALS				
Antimony	LBS/DAY	8.01/-	0.53	J (DNQ)
Arsenic	LBS/DAY	66.7/-	ND	U
Barium	LBS/DAY	1,330/-	42.70	--
Beryllium	LBS/DAY	5.34/-	ND	U
Cadmium	LBS/DAY	4.14/-	ND	U
Chromium VI	LBS/DAY	21.8/-	ND	U
Copper	LBS/DAY	18.7/-	4.14	--
Iron	LBS/DAY	400/-	827.33	--
Lead	LBS/DAY	6.94/-	0.51	J (DNQ)
Manganese	LBS/DAY	66.7/-	21.35	J (DNQ)
Mercury	LBS/DAY	0.13/-	ND	U
Nickel	LBS/DAY	128/-	3.60	J (DNQ)
Selenium	LBS/DAY	10.9/-	0.51	J (DNQ)
Silver	LBS/DAY	5.5/-	ND	U
Thallium	LBS/DAY	2.7/-	ND	U
Zinc	LBS/DAY	159/-	8.81	J (DNQ)
ORGANICS				
1,1-Dichloroethene	LBS/DAY	8/-	ND	*
Trichloroethene	LBS/DAY	6.7/-	2.27	*
ADDITIONAL ANALYTES				
2,4,6-Trichlorophenol	LBS/DAY	17/-	ND	U
2,4-Dinitrotoluene	LBS/DAY	24/-	ND	U
alpha-BHC	LBS/DAY	0.04/-	ND	*
bis (2-ethylhexyl) Phthalate	LBS/DAY	5.3/-	ND	U (B)
n-Nitrosodimethylamine	LBS/DAY	21.8/-	ND	U
Pentachlorophenol	LBS/DAY	22/-	ND	U
TCDD TEQ_NoDNQ	LBS/DAY	3.7E-08/-	1.91E-08	--

See Table G-VII for abbreviations, definitions, and other explanations.
Table provided by MWH.
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G:\Projects\26472\Reports\M-497 2008 Annual\Tables\2009-0227-HAI-SSFL_M497_G-V-F.xls

TABLE G-V
NPDES PERMIT CA0001309, OUTFALL 002,
2008 MASS BASED RESULTS
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

			2/20/2008	
ANALYTE	**UNITS**	**Benchmark Limit Daily Max/Monthly Avg**	**Result**	**CONCENTRATION RESULT VALIDATION QUALIFIER**
Ammonia as Nitrogen (N)	LBS/DAY	13,500/-	ND	*
Biochemical Oxygen Demand (BOD 5 day)	LBS/DAY	40,032/-	ND	*
Chloride	LBS/DAY	200,160/-	54,710.40	*
Surfactants (MBAS)	LBS/DAY	667/-	76.06	J* (DNQ)
Fluoride	LBS/DAY	2,135/-	ANR	ANR
Nitrate + Nitrite as Nitrogen (N)	LBS/DAY	10,700/-	440.35	*
Nitrate as Nitrogen (N)	LBS/DAY	10,700/-	440.35	*
Nitrite-N	LBS/DAY	1,334/-	ND	*
Oil & Grease	LBS/DAY	20,016/-	2935.68	J* (DNQ)
Perchlorate	LBS/DAY	8/-	ND	*
Sulfate	LBS/DAY	400,320/-	186,816.00	*
Total Cyanide	LBS/DAY	11.3/-	ND	*
Total Dissolved Solids	LBS/DAY	1,270,000/-	573,792.01	*
Total Residual Chlorine	LBS/DAY	133/-	ANR	ANR
Total Suspended Solids	LBS/DAY	60,048/-	ND	*
METALS				
Antimony	LBS/DAY	8.01/-	ANR	ANR
Arsenic	LBS/DAY	66.7/-	1.32	J (DNQ)
Barium	LBS/DAY	1,330/-	57.38	*
Beryllium	LBS/DAY	5.34/-	ND	U
Cadmium	LBS/DAY	4.14/-	ND	U
Chromium VI	LBS/DAY	21.8/-	1.47	J (DNQ)
Copper	LBS/DAY	18.7/-	3.07	--
Iron	LBS/DAY	400/-	97.41	*
Lead	LBS/DAY	6.94/-	ND	U
Manganese	LBS/DAY	66.7/-	26.69	--
Mercury	LBS/DAY	0.13/-	ND	U
Nickel	LBS/DAY	128/-	ND	U
Selenium	LBS/DAY	10.9/-	0.91	J (DNQ)
Silver	LBS/DAY	5.5/-	ANR	ANR
Thallium	LBS/DAY	2.7/-	ANR	ANR
Zinc	LBS/DAY	159/-	34.69	*
ORGANICS				
1,1-Dichloroethene	LBS/DAY	8/-	ND	*
Trichloroethene	LBS/DAY	6.7/-	ND	*
ADDITIONAL ANALYTES				
2,4,6-Trichlorophenol	LBS/DAY	17/-	ND	*
2,4-Dinitrotoluene	LBS/DAY	24/-	ND	*
alpha-BHC	LBS/DAY	0.04/-	ND	*
bis (2-ethylhexyl) Phthalate	LBS/DAY	5.3/-	4.80	J* (DNQ)
n-Nitrosodimethylamine	LBS/DAY	21.8/-	ND	*
Pentachlorophenol	LBS/DAY	22/-	ND	*
TCDD TEQ_NoDNQ	LBS/DAY	3.7E-08/-	ND	--

See Table G-VII for abbreviations, definitions, and other explanations.
Table provided by MWH.
Haley & Aldrich, Inc.
G:\Projects\26472\Reports\M-497 2008 Annual\Tables\2009-0227-HAI-SSFL_M497_G-V-F.xls

TABLE G-VI
NPDES PERMIT CA0001309, OUTFALL 002
2008 SUMMARY OF PERMIT LIMIT EXCEEDANCES
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

DAILY MAX BENCHMARK LIMIT EXCEEDANCES							
OUTFALL	**LOCATIONS**	**SAMPLE DATE**	**ANALYTE**	**BENCHMARK LIMIT DAILY MAX/ MONTHLY AVERAGE**	**DAILY MAX RESULT**	**UNITS**	**VALIDATION QUALIFIER**
Outfall 002	South Slope below R-2 Pond	01/25/08	bis (2-ethylhexyl) Phthalate	4.0/-	5.7	ug/L	--
Outfall 002	South Slope below R-2 Pond	01/25/08	Iron	0.3/-	4.3	mg/L	--
Outfall 002	South Slope below R-2 Pond	01/25/08	Lead	5.2/-	7.1	ug/L	--
Outfall 002	South Slope below R-2 Pond	01/25/08	Manganese	50/-	120	ug/L	--
Outfall 002	South Slope below R-2 Pond	01/25/08	TCDD TEQ_NoDNQ	2.80E-08/-	9.69E-07	ug/L	*
Outfall 002	South Slope below R-2 Pond	02/03/08	Iron	0.3/-	0.62	mg/L	--
Outfall 002	South Slope below R-2 Pond	02/03/08	Total Residual Chlorine	0.1/-	0.14	mg/L	J (H)

DAILY MASS BENCHMARK LIMIT EXCEEDANCES							
OUTFALL	**LOCATIONS**	**SAMPLE DATE**	**ANALYTE**	**BENCHMARK LIMIT DAILY MAX/ MONTHLY AVERAGE**	**DAILY MASS RESULT**	**UNITS**	**RESULT CONCENTRATION VALIDATION QUALIFIER**
Outfall 002	South Slope below R-2 Pond	02/03/08	Iron	400/-	827.33	lbs/dy	--
Outfall 002	South Slope below R-2 Pond	02/03/08	Total Residual Chlorine	133/-	186.82	lbs/dy	J (H)

See Table G-VII for abbreviations, definitions, and other explanations.
Table provided by MWH.
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G:\Projects\26472\Reports\M-497 2008 Annual\Tables\2009-0227-HAI-SSFL_M497_G-VI-F.xls

TABLE G-VII
NPDES PERMIT CA0001309
2008 REPORTING SUMMARY NOTES
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Notes:

1. TCDD TEQs for the purpose of determining permit compliance are the sum of the products of the detected dioxin congener concentration multiplied by that congener's 1998 World Health Organization's (WHO) toxic equivalency factor (TEF). The resulting compliance TCDD TEQ does not include those congener concentrations that are reported as DNQ, as specified on Page 46 of the NPDES permit.

2. For some sample dates, pH was determined with a field instrument to obtain a more representative result and was noted as such. These results were not validated.

3. The NPDES permit limits for mercury of 0.10 µg/L (Outfalls 001, 002, 011, and 018) and 0.13 µg/L (Outfalls 3-10) are not achievable by the laboratory; therefore, the laboratory reporting limit of 0.20 µg/L was used to determine compliance.

4. The following assumptions and rationale were used to report the DMR Quantity or Loading results:

   Loading (lbs/day) = Measured Sample Concentration (mg/L) x 8.34 x Outfall flow (MGD)
   Monthly Average Loading (lbs/day) = Sum of Event Mass Discharges within a Month / Number of Days of Flow for all Sample Events
   Where:
   Event Mass Discharge = Measured Sample Concentration for Event (mg/L) x 8.34 x Total Flow for Sample Event (MGD)

   In Compliance with the Permit (Page 44, Section D), for Monthly Average Discharge Values:
   - For calculating the monthly average, one-half of the MDL was used for concentration results reported as ND.
   - For calculating the monthly average, the estimated value was used for concentration results reported as DNQ.
   - If all pollutants belonging to the same group are reported as ND or DNQ, the sum of the individual pollutant concentrations were considered zero for calculation of the monthly average.

5. Data presented in the report tables are reported as quantified to the MDL (ND < MDL) and includes estimated detections (DNQ values) to provide low-level information and to give an indication of the sensitivity of the methods used. The laboratory-derived MDLs are designed to be reliable however, the data generation and validation procedures are designed to establish defensibility of quantified data to the RL. Data presented in the tables are accurate and reliable as qualified, but the final laboratory data reports and data validation reports must be used to determine legal defensibility. This does not affect compliance determination, since values below the RL are not used for compliance purposes.

6. Outfall 002 is located on the south slope below the R-2 pond.

Symbols and Abbreviations:

The following symbols and abbreviations may occur on report tables:

-92.9 +/-200	A negative radiochemical analytical result indicates the count rate of the sample was less than the background condition
$	reported result or other information was incorrectly reported by the laboratory; result was corrected by the data validator
--	based on validation of the data, a qualifier was not required
-/-	no permit limit established for daily maximum or monthly average
<(value)	analyte not detected at a concentration greater than or equal to the DL, MDL, or RL (see laboratory report for specific detail)
*	result is not validated
*1	improper preservation of sample
*2	the ICP/MS ppb check standard was recovered above the control limit; therefore, the constituent detected was qualified as estimated (J)

NPDES PERMIT CA0001309
2008 REPORTING SUMMARY NOTES
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

*3	initial and or continuing calibration recoveries were outside acceptable control limits
*4	Extractable Fuel Hydrocarbon (EFH) recovery was above control limit in the blank spike only and relative percent difference for the EFH blank spike/blank spike duplicate pair exceeded the quality control (QC) limit of </-25%
*5	blank spike/blank spike duplicate relative percent difference was outside the control limit
*7	BOD results were estimated due to method derivation
*10	value was estimated detect or estimated non detect (J,UJ) due to deficiencies in quantitation of the constituent including constituents reported by the laboratory as Estimated Maximum Possible Concentration (EMPC) values
*11	no calibration was performed for this compound; result is reported as a tentatively identified compound (TIC)
*II	Unusual problems found with the data that have been described in Section II, "Sample Management" of the validation reports.
*III	Unusual problems found with the data that have been described in Section III, "Method Analyses" of the validation reports.
ANR	analysis not required; e.g., constituent or outfall was not required by the permit to be sampled and analyzed (annual, semi-annual, etc.)
B	laboratory method blank contamination
C	calibration %RSD or %D were noncompliant
C5	Calibration verification %R was outside method control limits
D	analysis with this flag should not be used because another more technically sound analysis is available
%D	percent difference between the initial and continuing calibration relative response factors
deg F	degrees Fahrenheit
DL	detection limit
DNQ	detected but not quantified (constituent value greater than or equal to the laboratory method detection limit and less then the laboratory reporting limit)
E	duplicates show poor agreement
H	holding time was exceeded
I	ICP interference check solution results were unsatisfactory
J	estimated value
K	The sample dilution's set-up did not meet the oxygen depletion criteria of at least 2 mg/l. Therefore, the reported result is an estimated value only.
L2	the laboratory control sample %R was below the method control limits
lbs/day	pounds per day
L	laboratory control sample %R was outside control limits
LOD	limit of detection
M1	matrix spike (MS) and/or MS duplicate were above the acceptance limits due to sample matrix interference
M2	the MS and/or MS duplicate were below the acceptance limits due to sample matrix interference
M-3	Results exceeded the linear range in the MS and/or MS duplicate and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).
MDA	minimum detectable activity
MDL	method detection limit
MGD	million gallons per day
mg/L	milligrams per liter
ml/L	milliliters per liter
NA	not applicable; no permit limit established for the constituent and/or outfall
ND	analyte value less than the LOD or MDL
NM	not measured or determined
NTU	nephelometric turbidity unit
pCi/L	picocurries per liter
pg/L	picograms per liter
Q	matrix spike recovery outside of control limits
R	(as a validation qualifier): results are rejected; the presence or absence of analyte cannot be verified
R	(as a reason code in parentheses): %R for calibration not within control limits

TABLE G-VII
NPDES PERMIT CA0001309
2008 REPORTING SUMMARY NOTES
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

RL	laboratory reporting limit
RL-1	reporting limit raised due to sample matrix effects
%RSD	percent relative standard deviation
S	surrogate recovery was outside control limits
TEQ	toxic equivalency quotient
T	presumed contamination, as indicated by a detect in the trip blank
TU_c	toxicity units (chronic)
U	result not detected
ug/L	micrograms per liter
UJ	result not detected at the estimated reporting limit
umhos/cm	micromhos per centimeter
WHO TEF	World Health Organization toxic equivalency factor
^	analysis not completed due to hold time exceedence or insufficient sample volume
+	False positive – reported compound was not present. Not applicable.

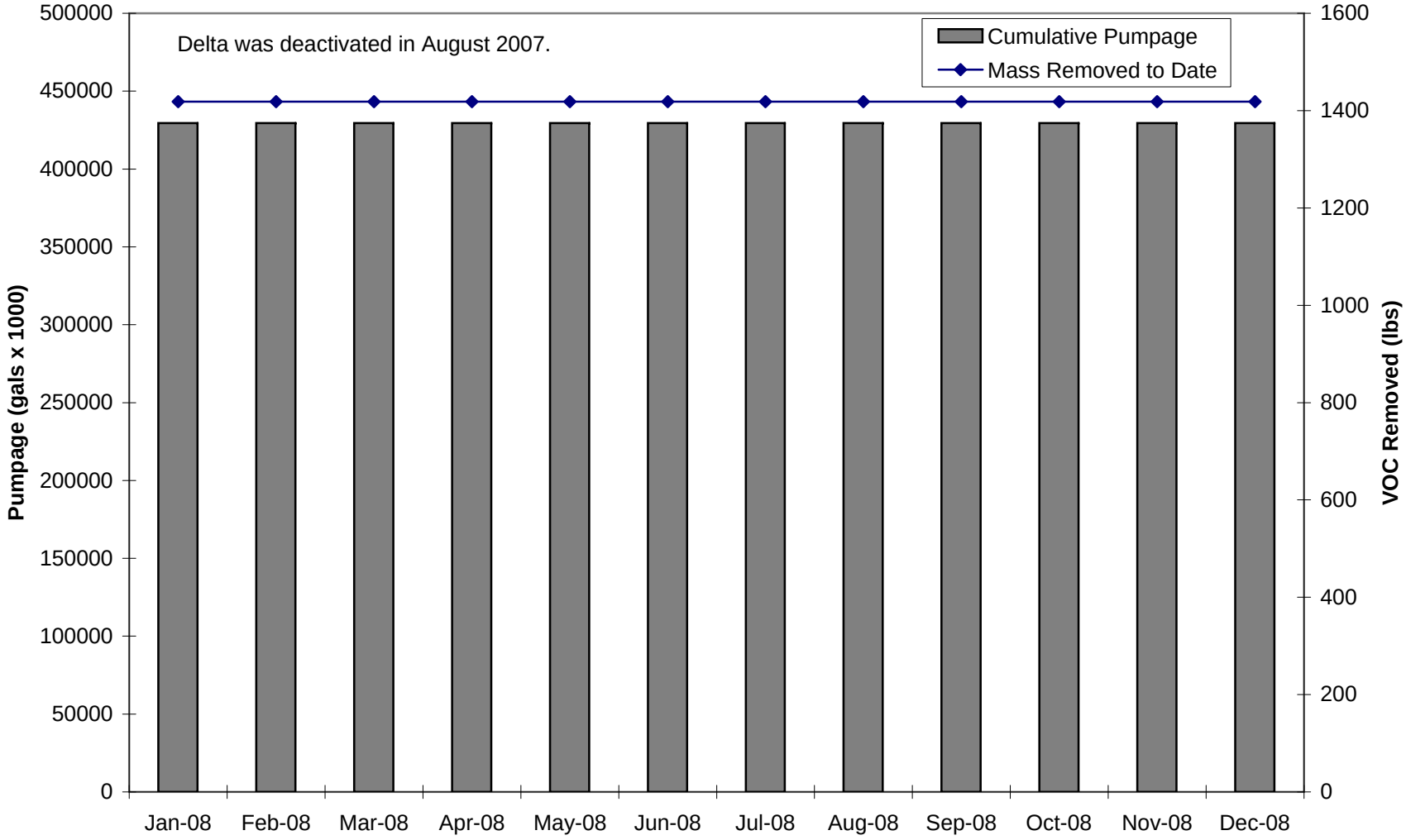

Figure G-1. Cumulative Pumpage & VOC Mass Removed to Date-Delta ASU-2008

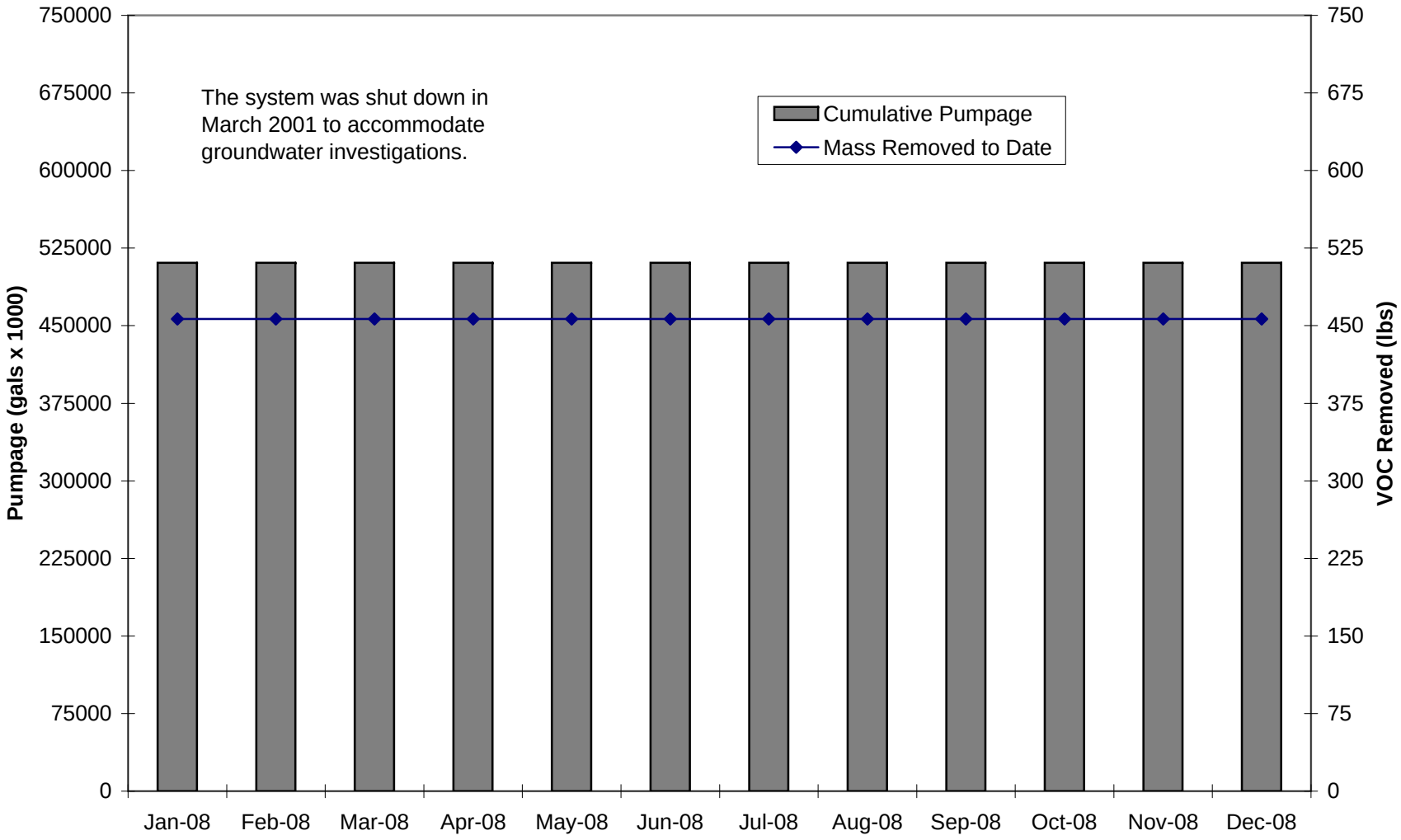

Figure G-2. Cumulative Pumpage & VOC Mass Removed to Date-Alfa ASU-2008

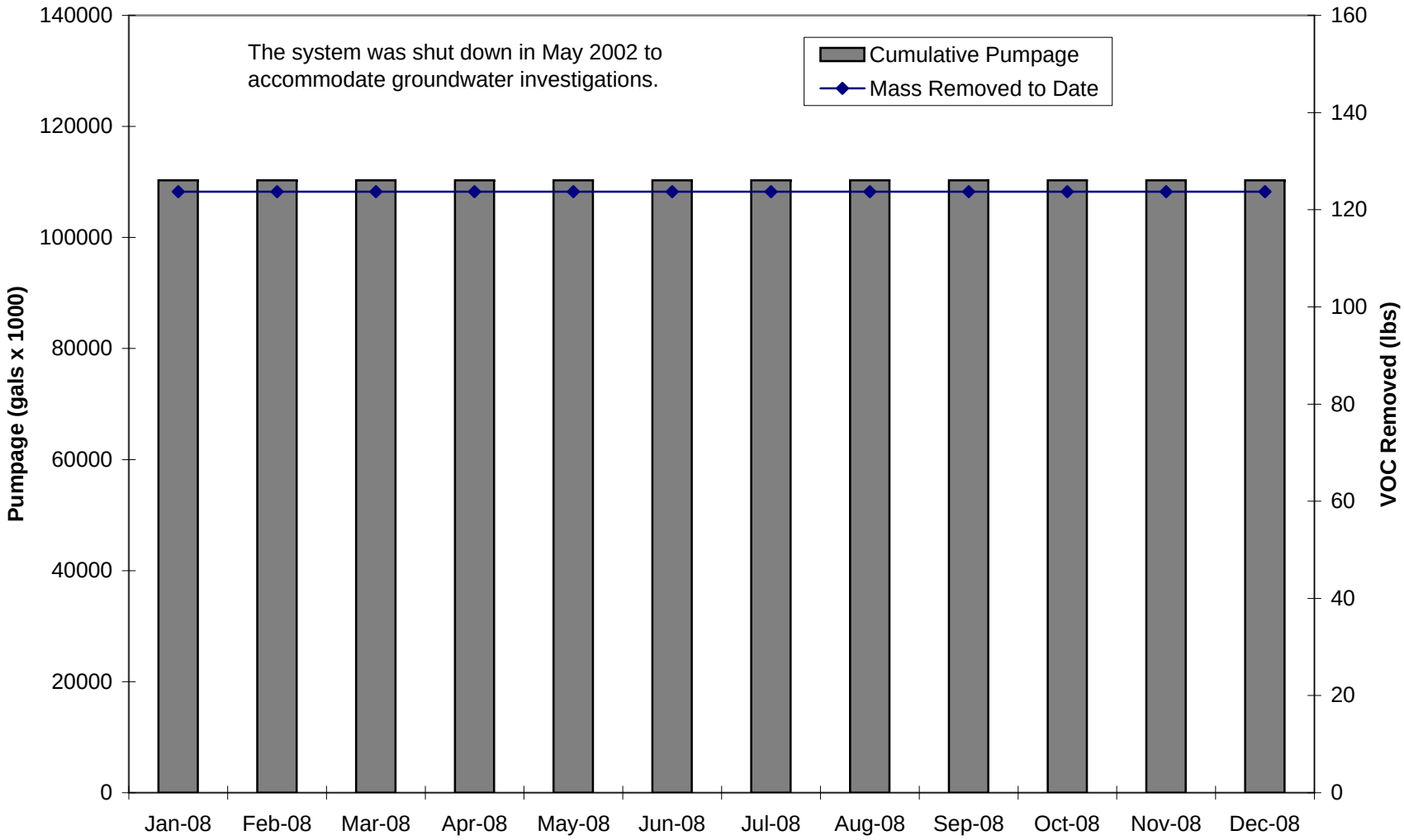

Figure G-3. Cumulative Pumpage & VOC Mass Removed to Date-Bravo ASU-2008

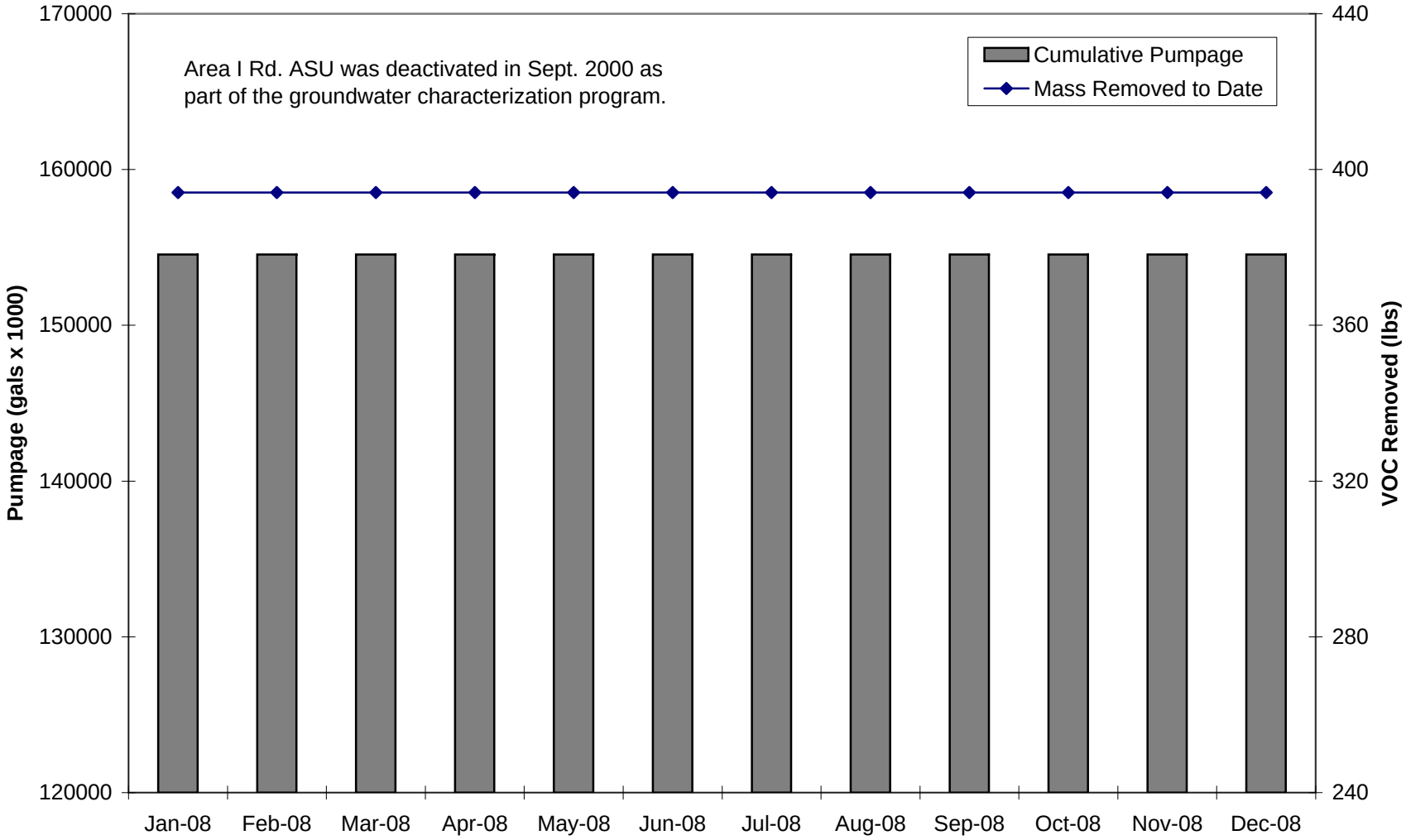

Figure G-4. Cumulative Pumpage & VOC Mass Removed to Date-Area I Rd ASU-2008

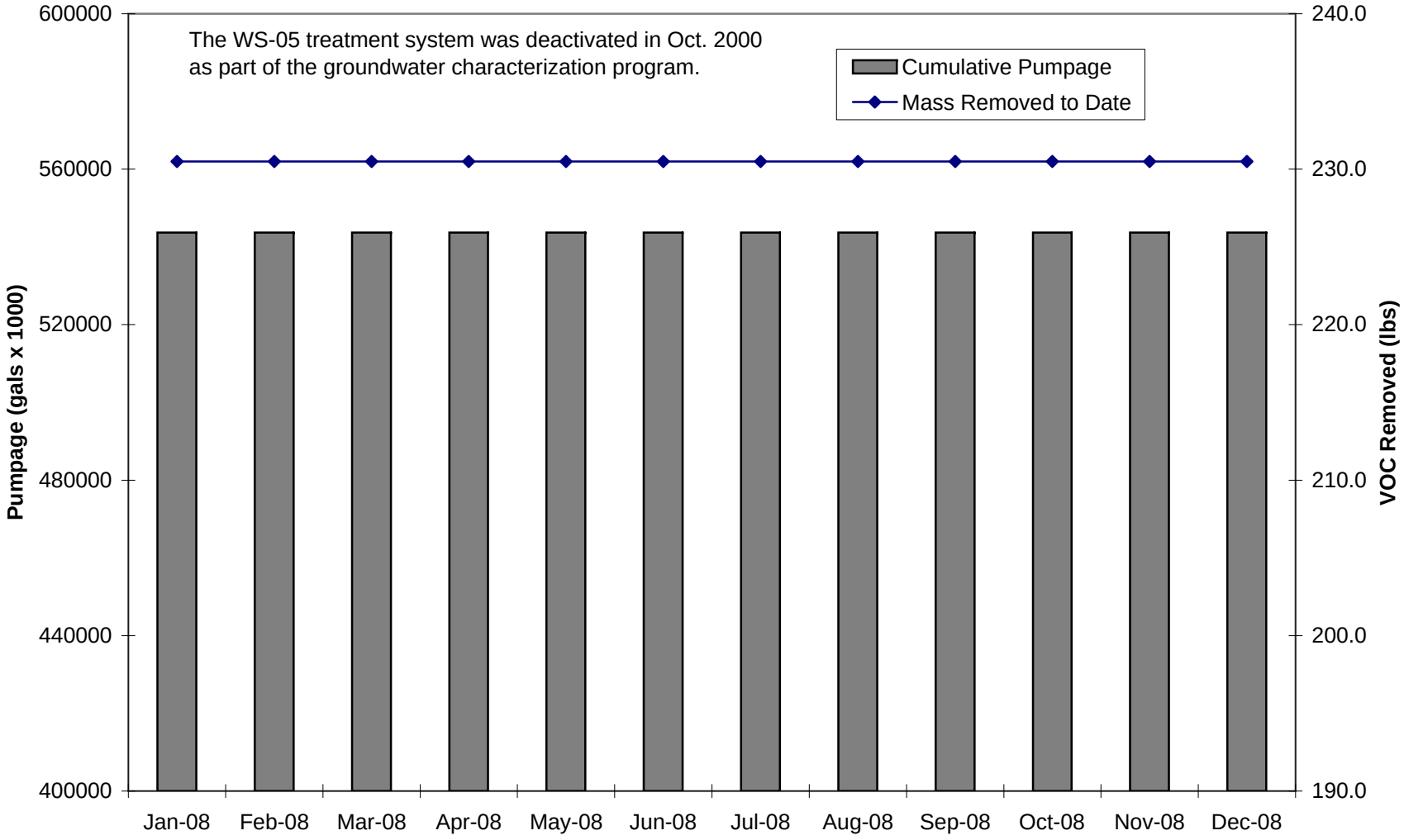

Figure G-5. Cumulative Pumpage & VOC Mass Removed to Date-WS-05 UV/H2O2-2008

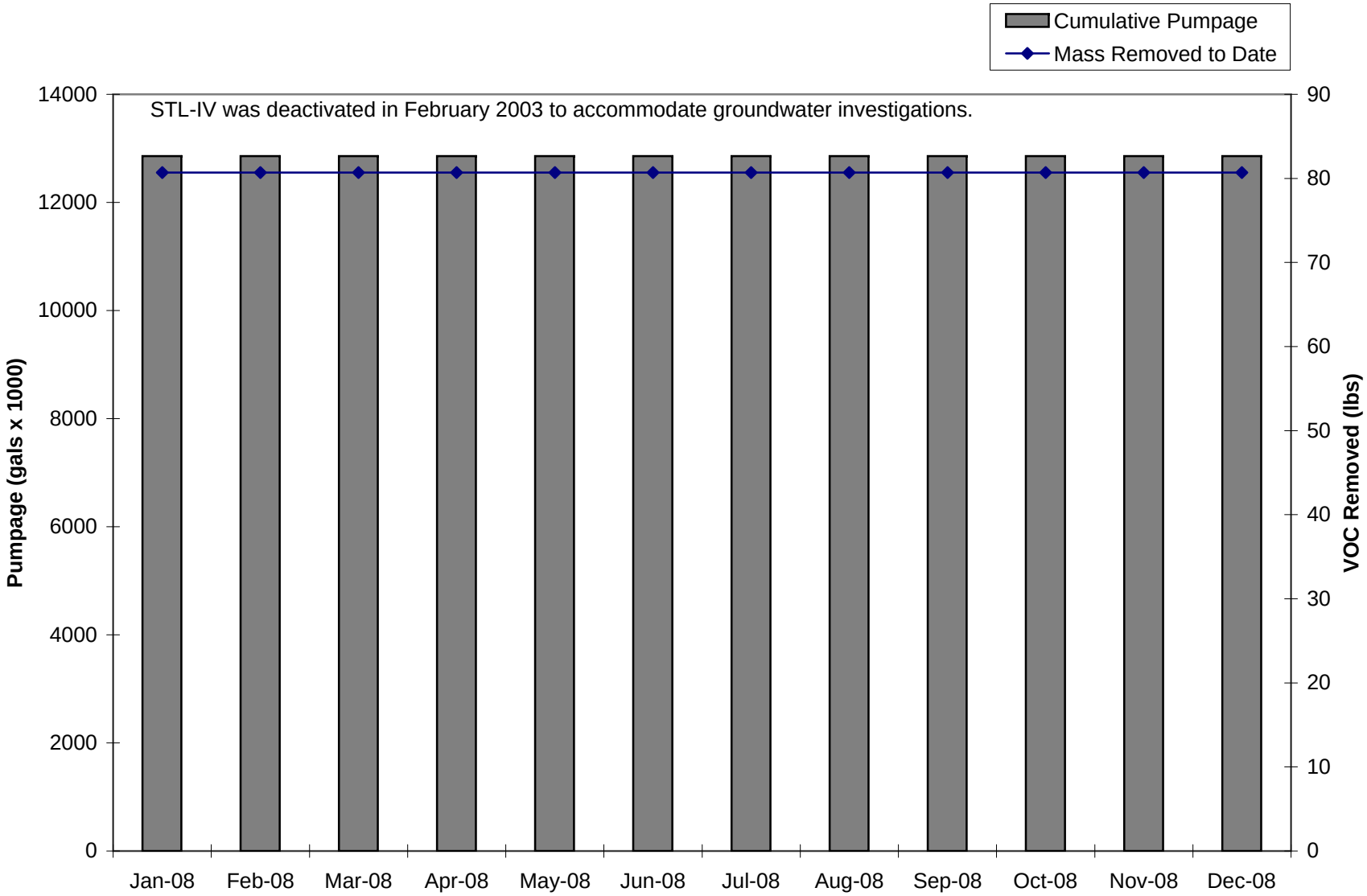

Figure G-6. Cumulative Pumpage & VOC Mass Removed to Date-STL-IV ASU-2008