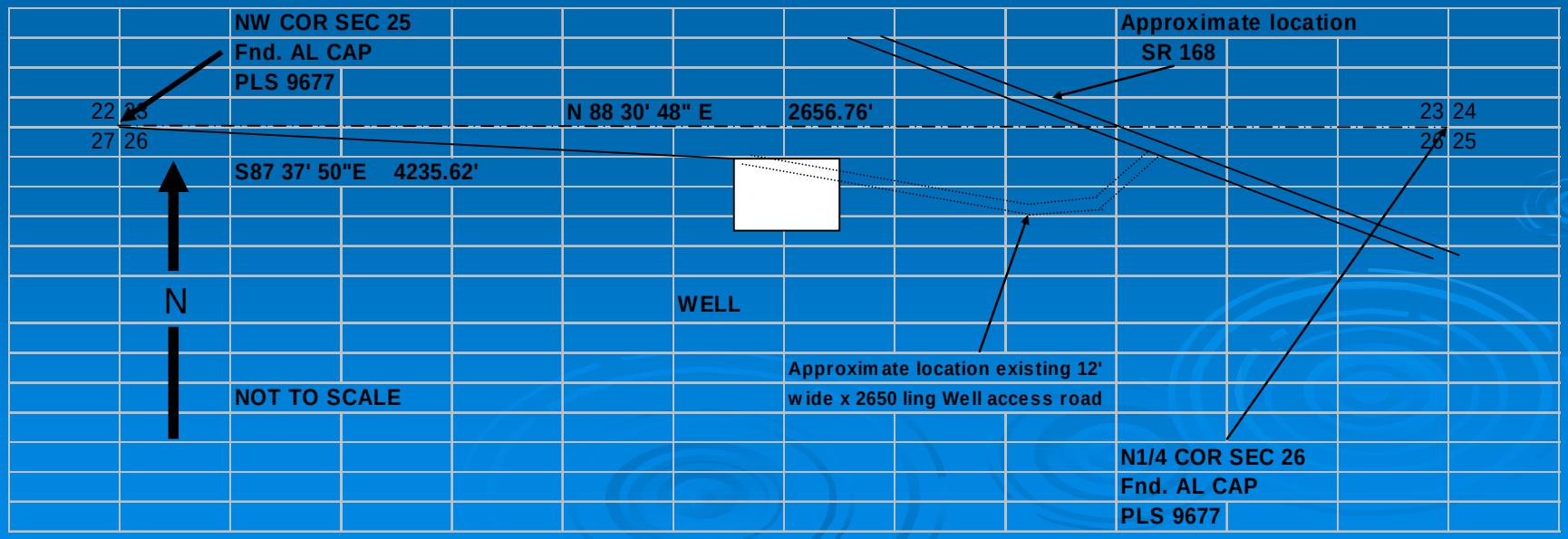
NV State Engineer's Order 1169 Compliance

Richard Willer
NV Energy

December 9th, 2008

RW-2 Right of way

United States Department of the Interior	N-85245
Bureau of Land Management	Issued- July 7, 2008



NV Energy Pipeline

Nevada Power Company

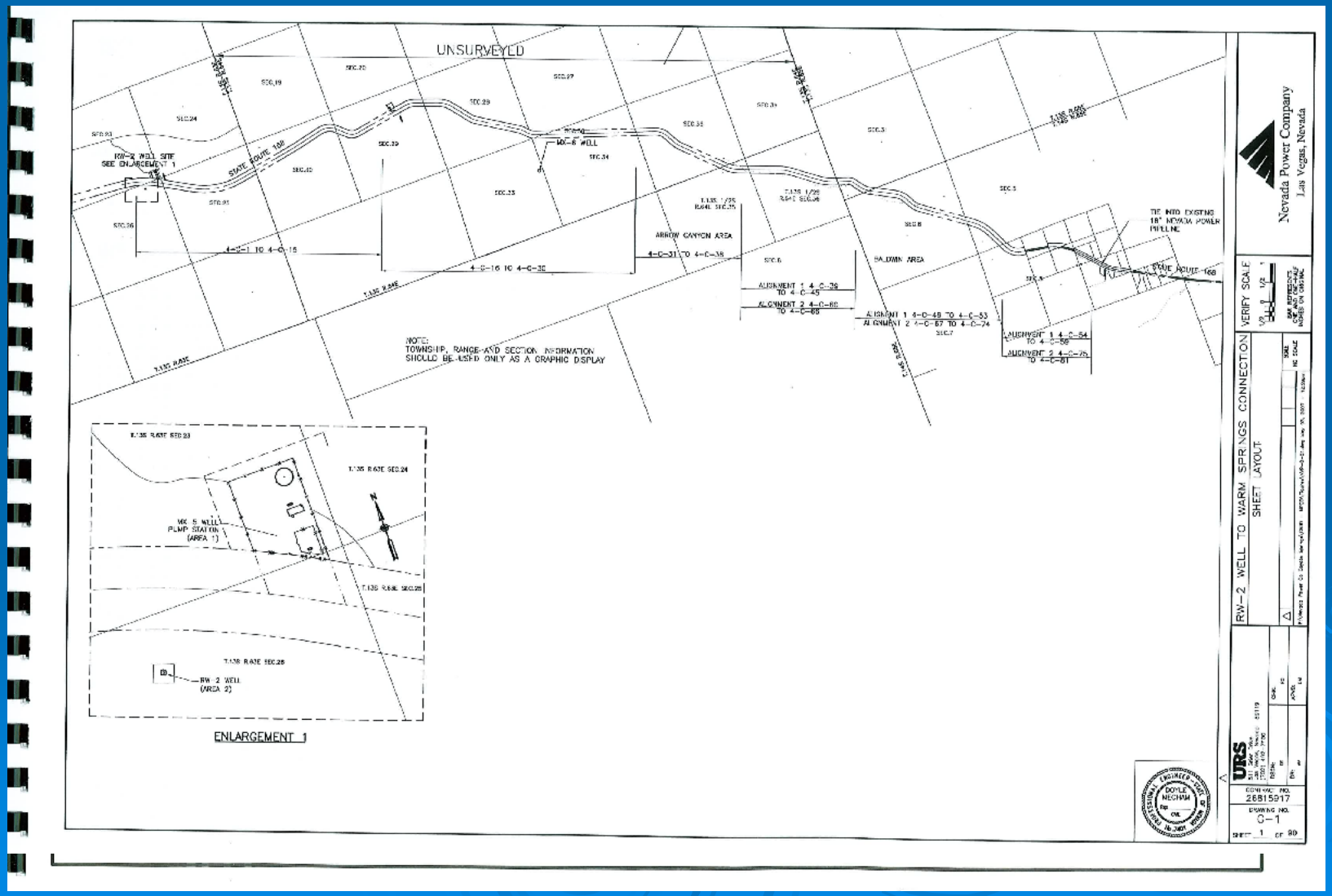
NEVADA POWER
COYOTE SPRINGS PIPELINE
RW-2 WELL TO WARM SPRINGS CONNECTION

MAY 2007
PRELIMINARY DESIGN

NOT FOR CONSTRUCTION

URS
811 Gr'er Drive
Las Vegas, Nevada 89119
(702) 492-7900

NV Energy Pipeline

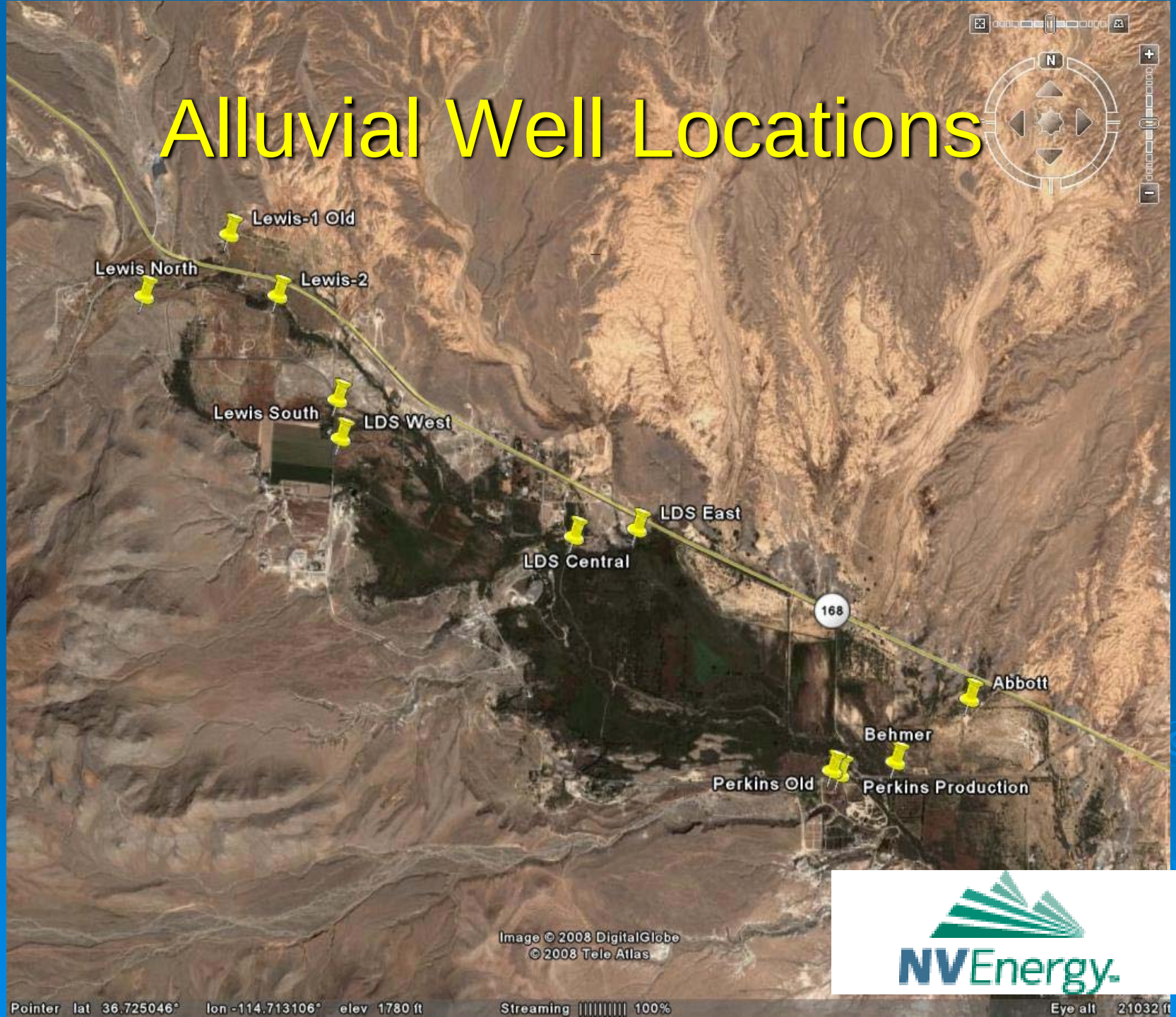


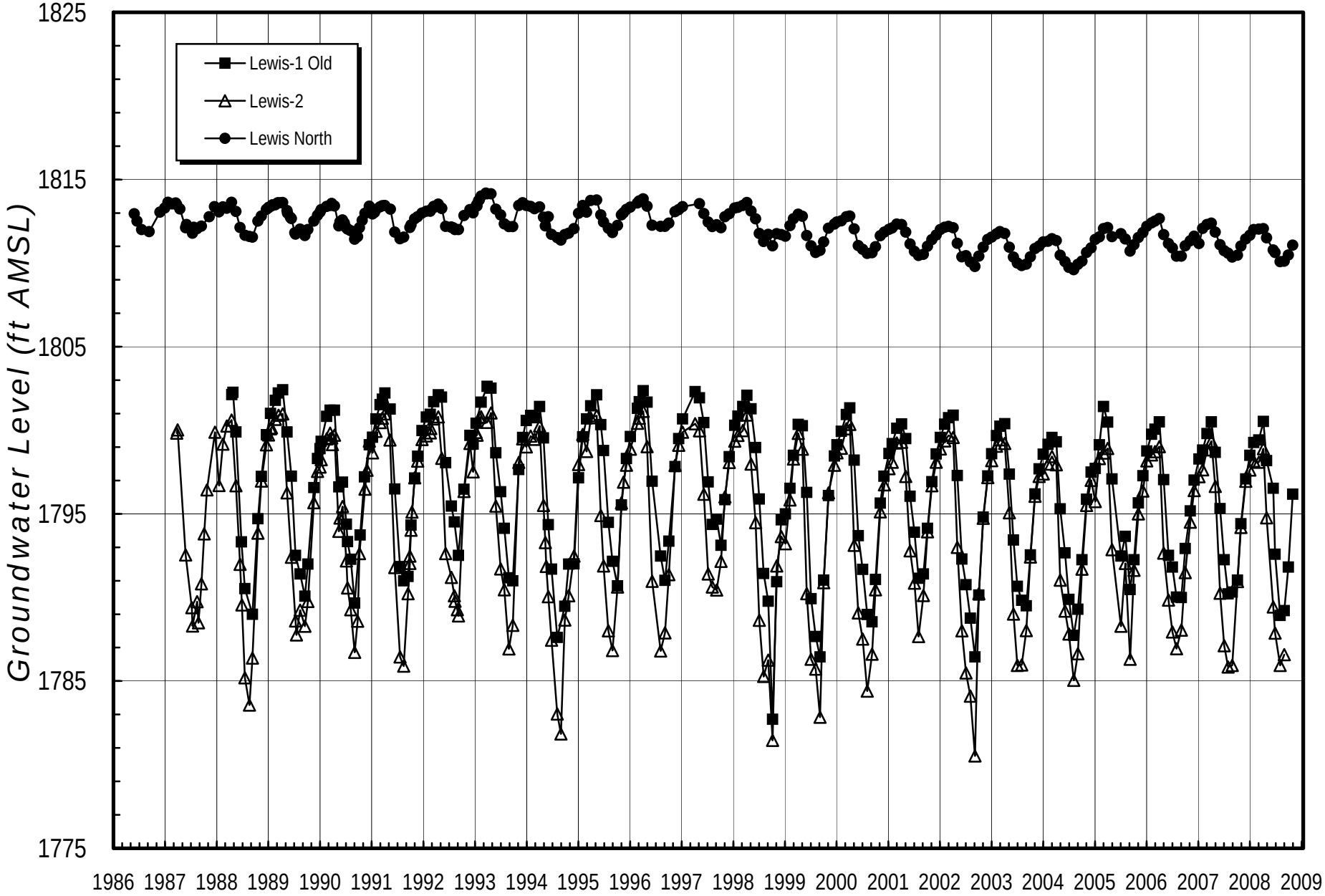
Alluvial Aquifer Monitor Wells

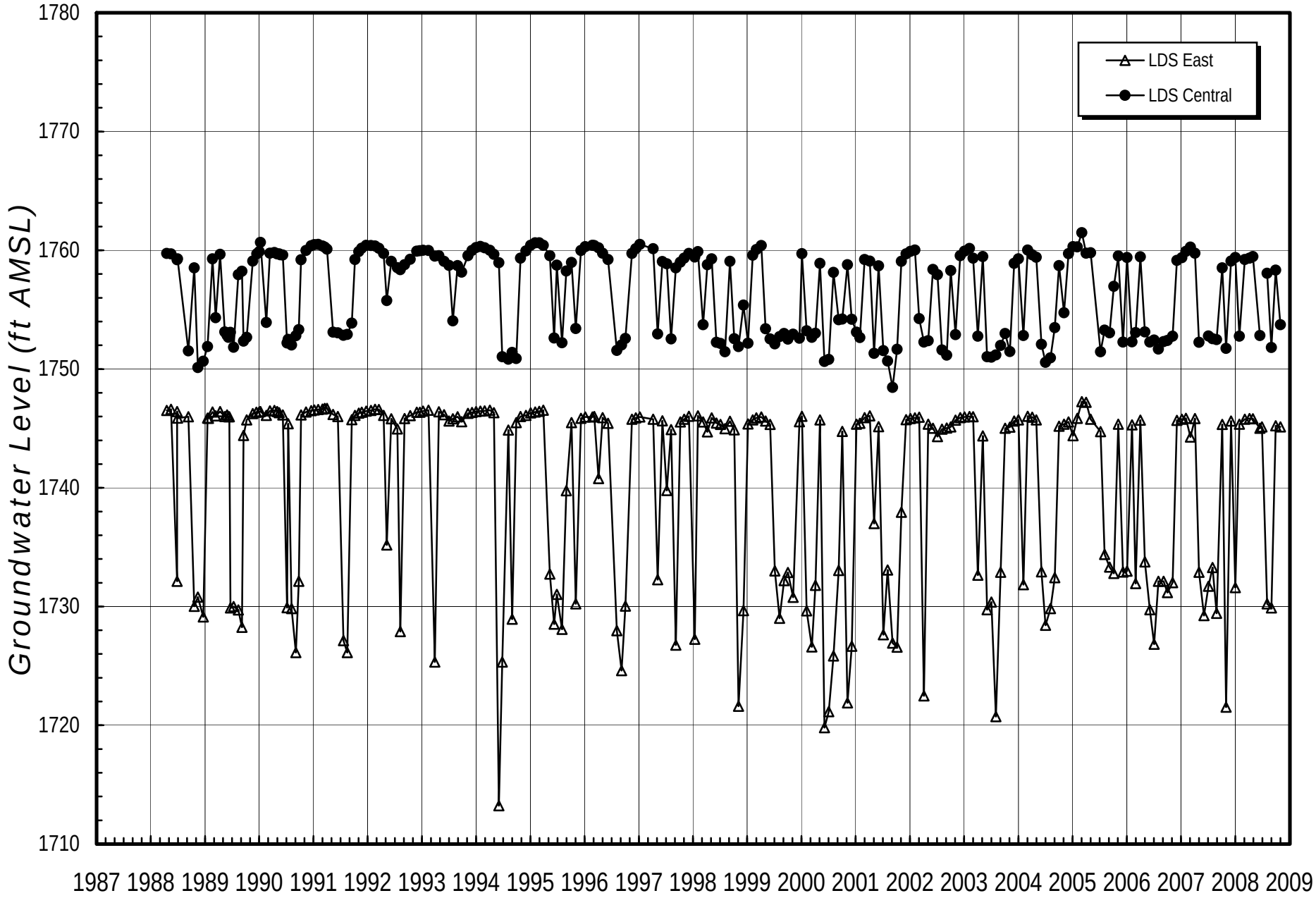
Well Name	Formation Monitored	Measurement Frequency	Well Depth (ft)
Muddy River Valley			
Abbott	Valley Fill	Monthly	100
Behmer	Valley Fill	Monthly	80
Lewis-1 Old	Valley Fill	Monthly	57
Lewis-2	Valley Fill	Semi-Continuous	66
Lewis North	Valley Fill	Semi-Continuous	70
Lewis South	Valley Fill	Semi-Continuous	111
LDS Central	Valley Fill	Monthly	52
LDS East	Valley Fill	Monthly	76
LDS West	Valley Fill	Monthly	80
Perkins Production	Valley Fill	Monthly	135
Perkins Old	Valley Fill	Semi-Continuous	60

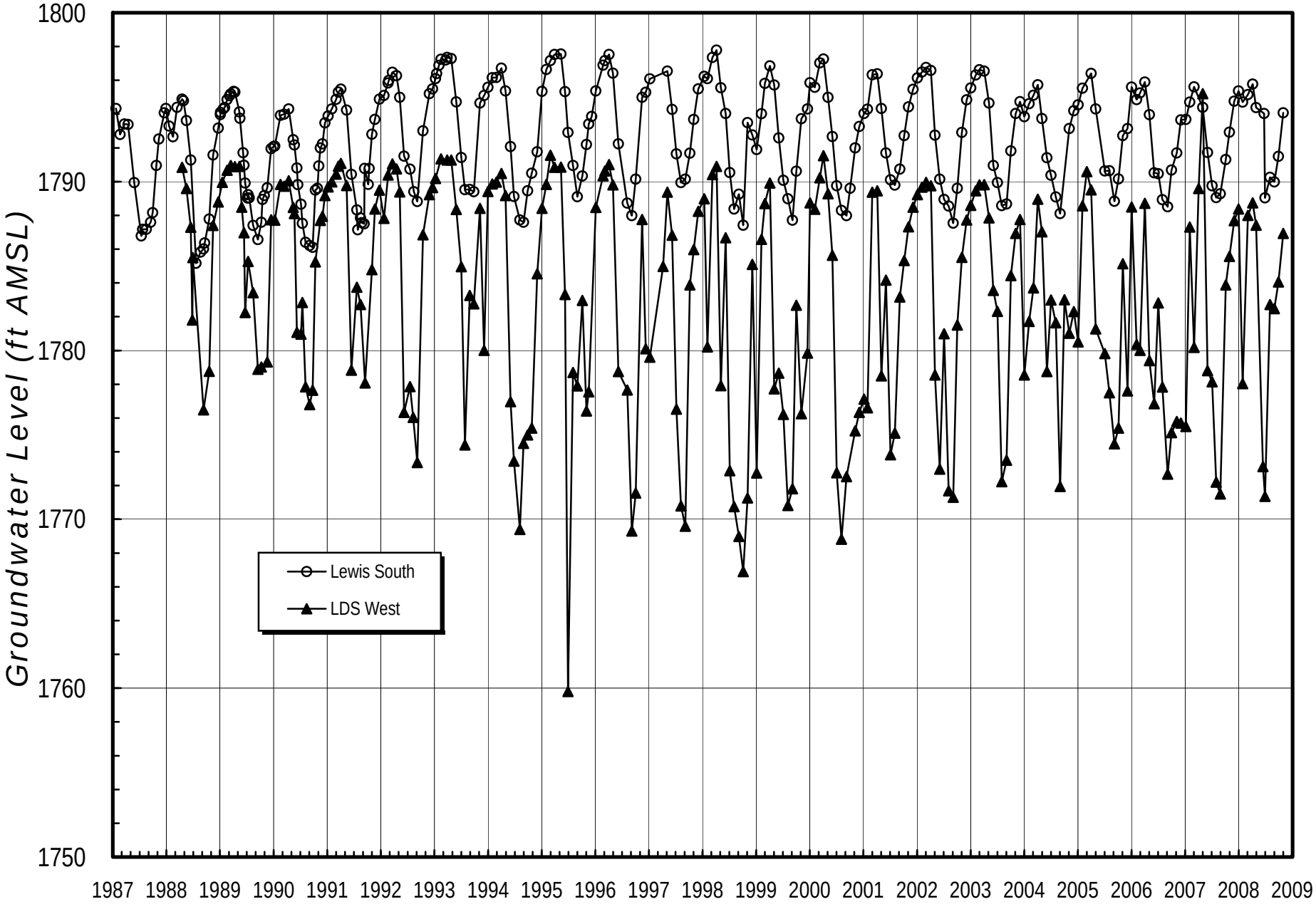
NVEnergy

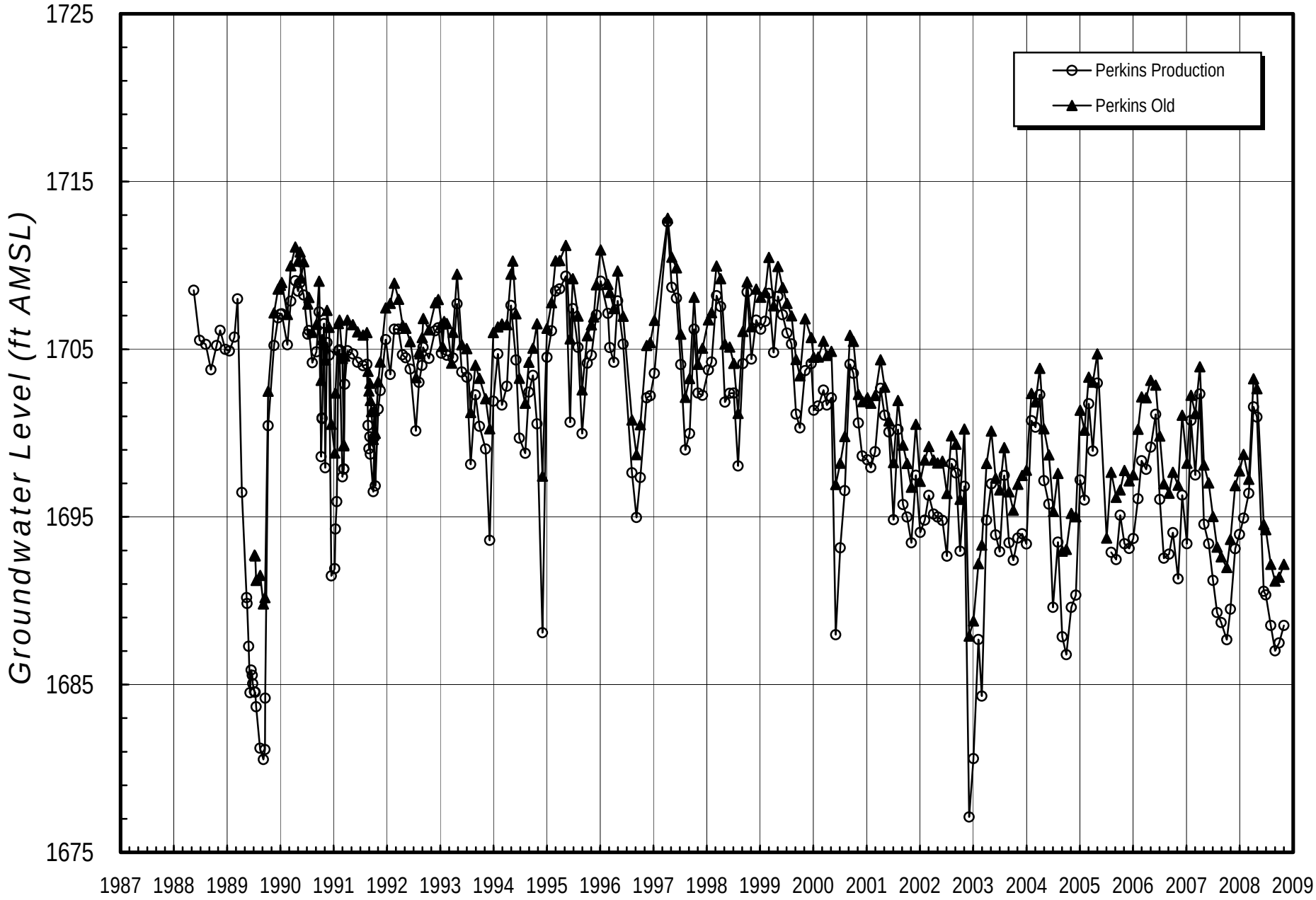
Alluvial Well Locations

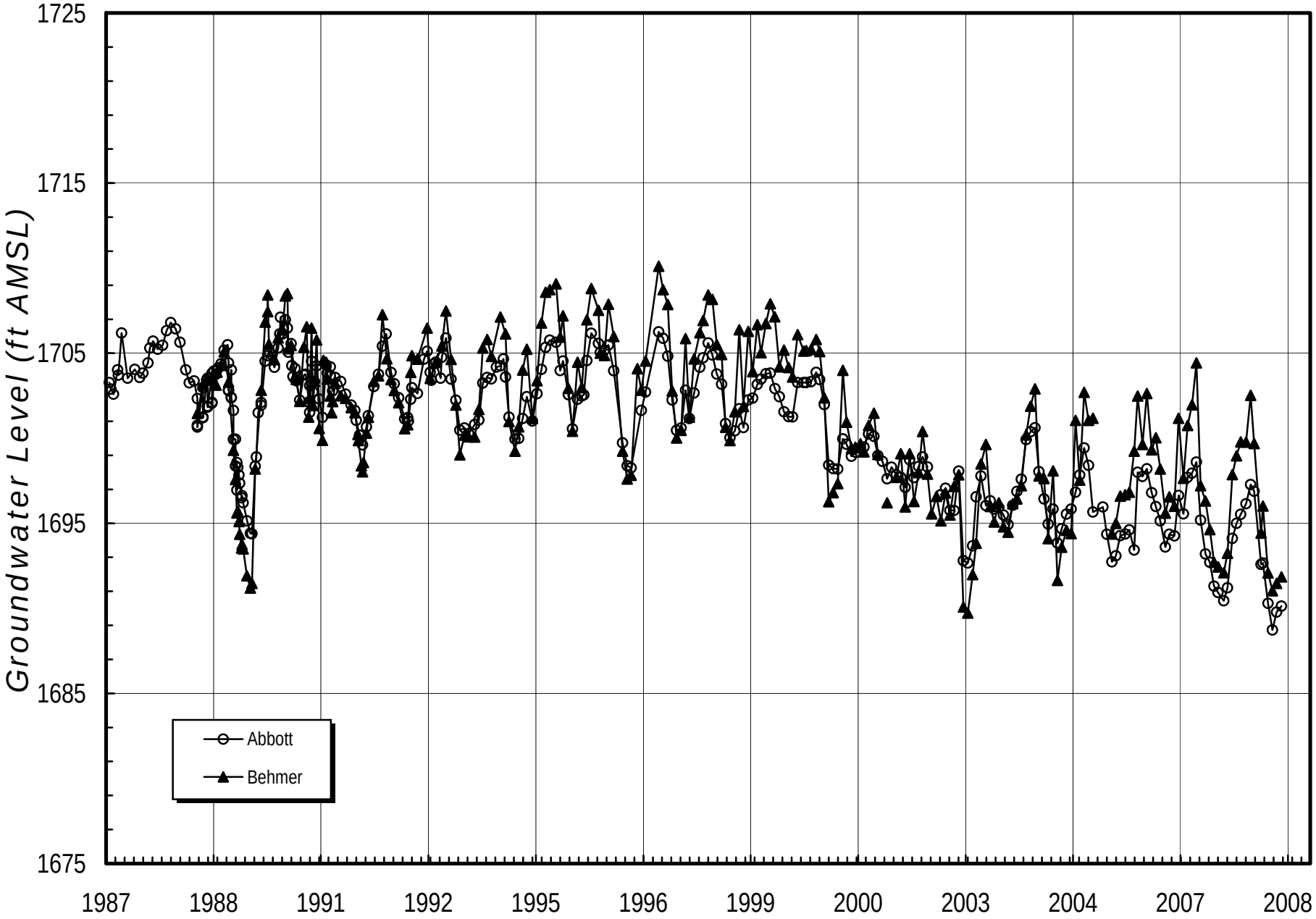



Lewis-1 Old
Lewis-2
Lewis North
Groundwater Level (ft AMSL)
1825
1815
1805
1795
1785
1775
1986
1987
1988
1989
1990
1991
1992
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009


LDS East
LDS Central
Groundwater Level (ft AMSL)
1780
1770
1760
1750
1740
1730
1720
1710
1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009


Groundwater Level (ft AMSL)
1800
1790
1780
1770
1760
1750
1987
1988
1989
1990
1991
1992
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
Lewis South
LDS West


Perkins Production
Perkins Old
Groundwater Level (ft AMSL)
1725
1715
1705
1695
1685
1675
1987
1988
1989
1990
1991
1992
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009


Groundwater Level (ft AMSL)
1725
1715
1705
1695
1685
1675
1987
1988
1991
1992
1995
1996
1999
2000
2003
2004
2007
2008
Abbott
Behmer

Carbonate Aquifer Monitor Wells

Well Name	Formation Monitored	Measurement Frequency	Well Depth (ft)
Weiser Wash			
EH-3	Carbonate	Semi-Continuous	793
EH-7	Carbonate	Semi-Continuous	440
Dry Lake Valley			
RW-1	Carbonate	Semi-Continuous	833
Crystal 1	Carbonate	Semi-Continuous	565
Crystal 2	Carbonate	Semi-Continuous	497
Coyote Springs Valley			
RW-2	Carbonate	Semi-Continuous	720
CSV-2	Carbonate	USGS Monthly	478
Muddy River Valley			
EH-4	Carbonate	Semi-Continuous	285
EH-5b	Carbonate	Semi-Continuous	264

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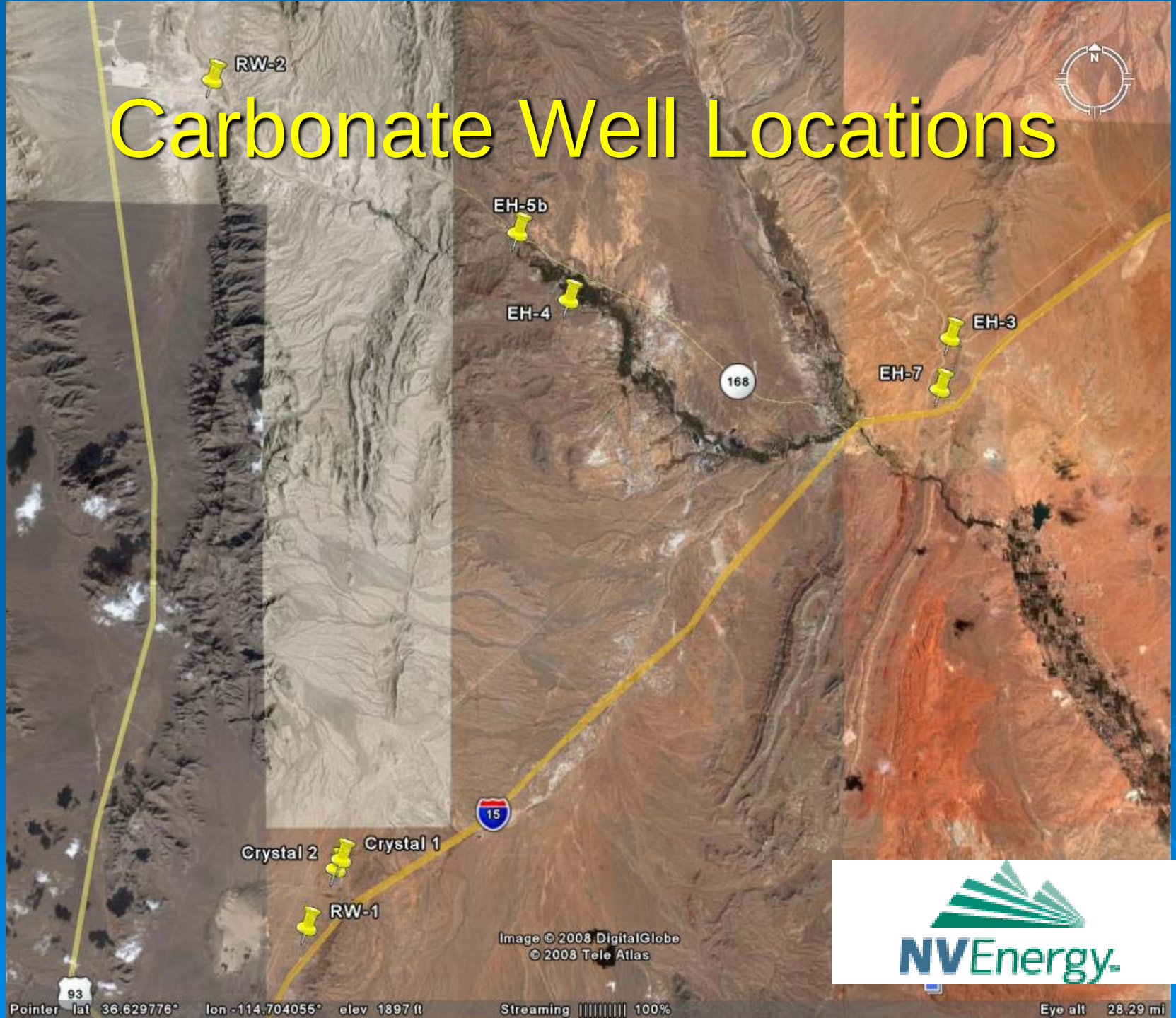
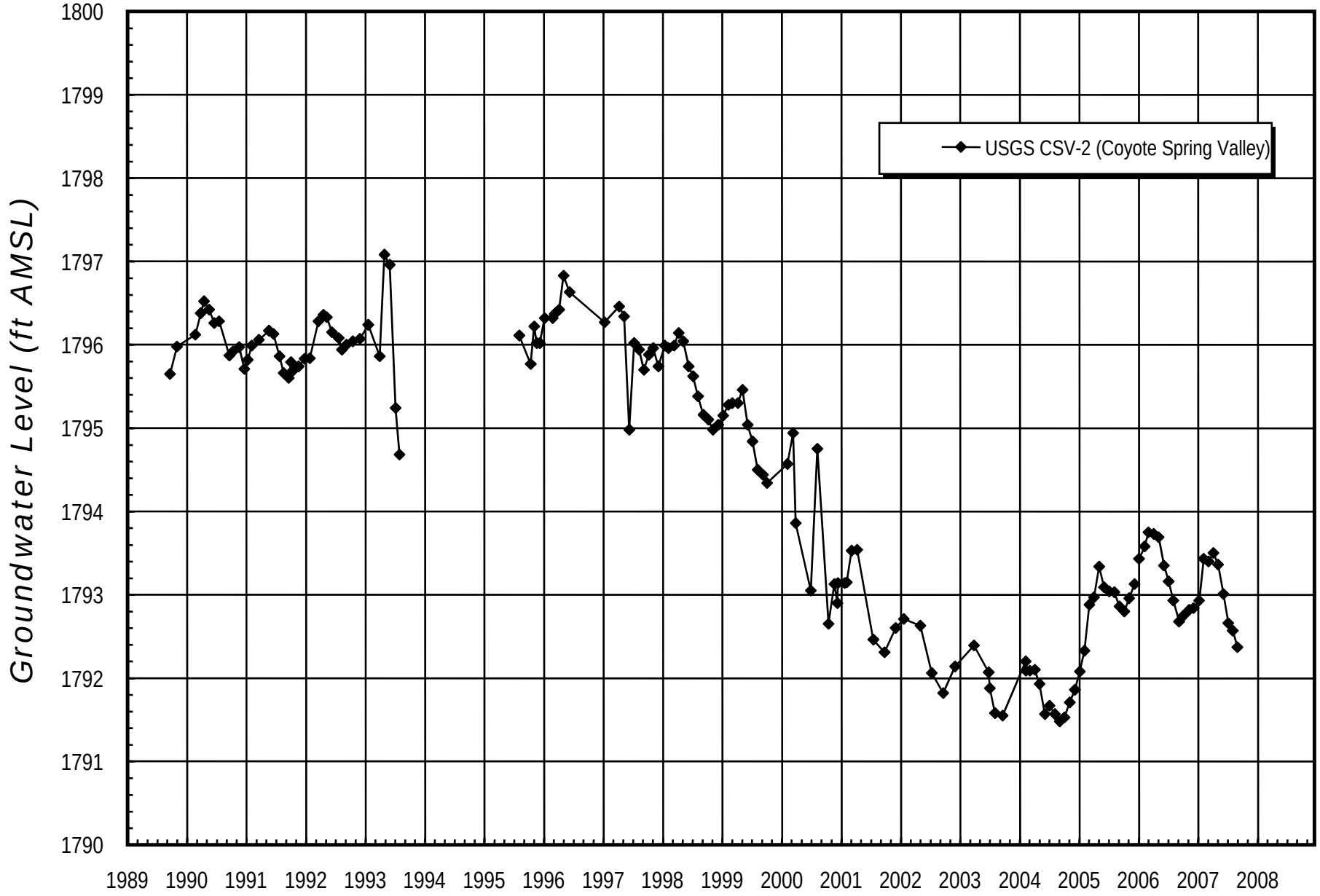
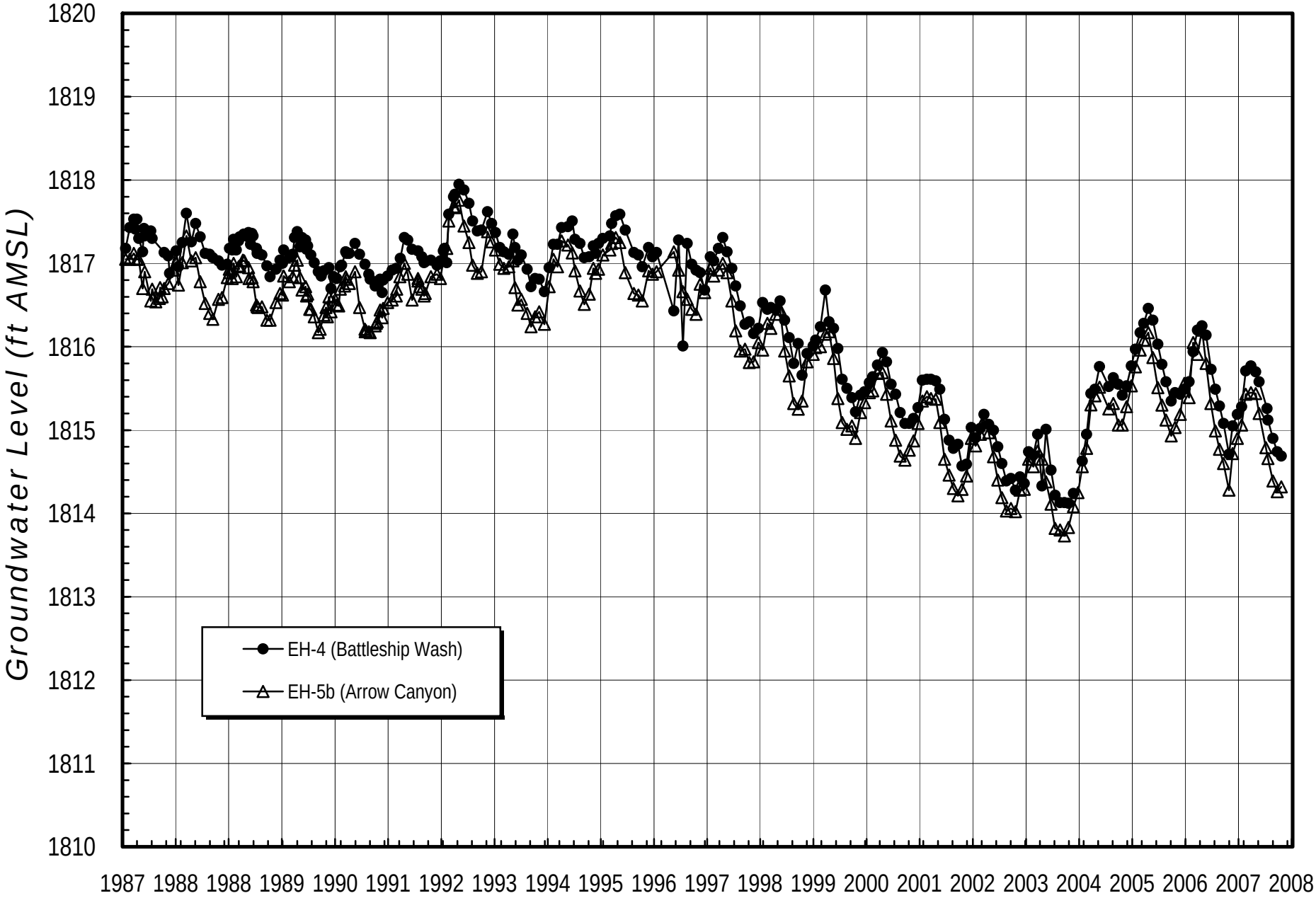
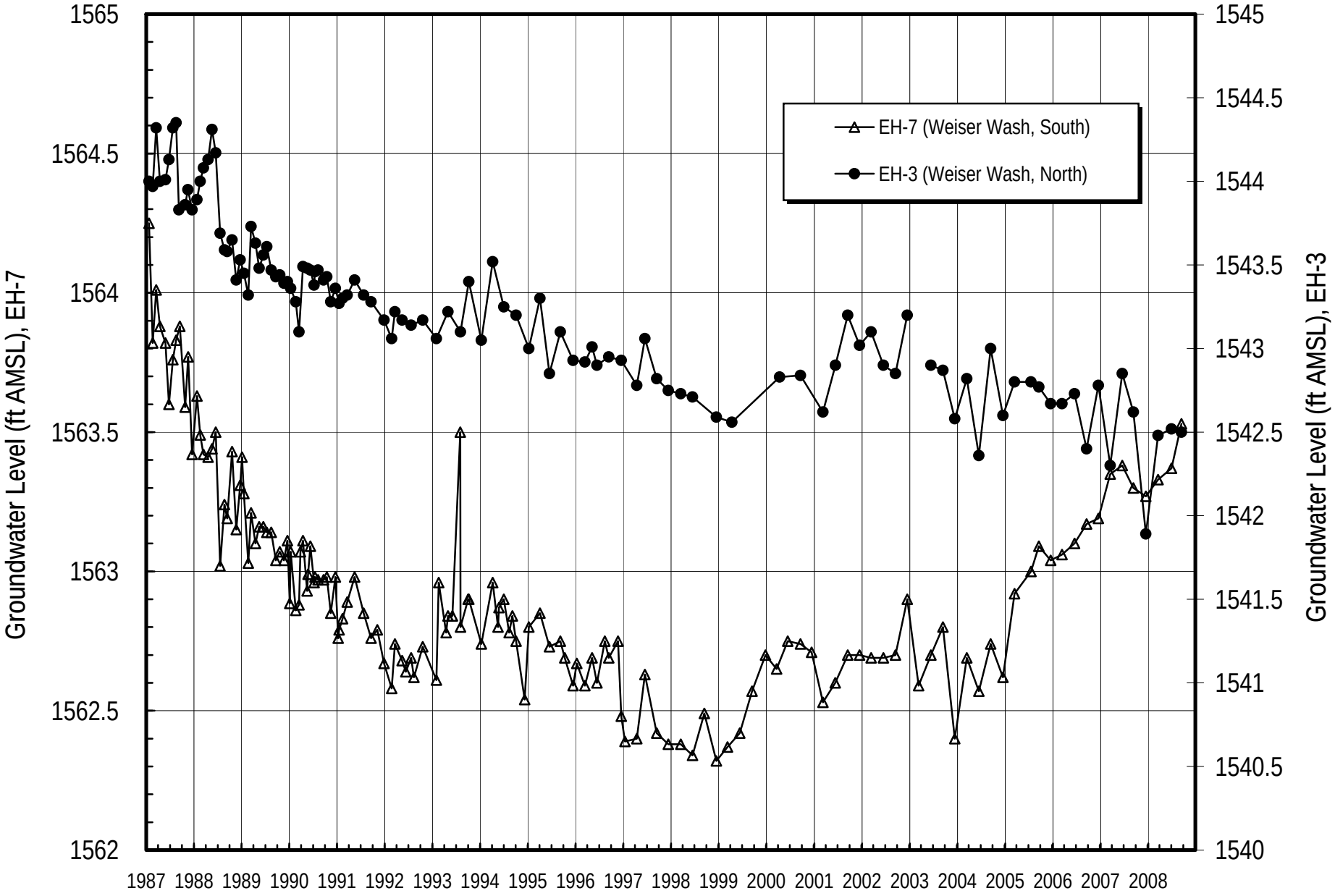
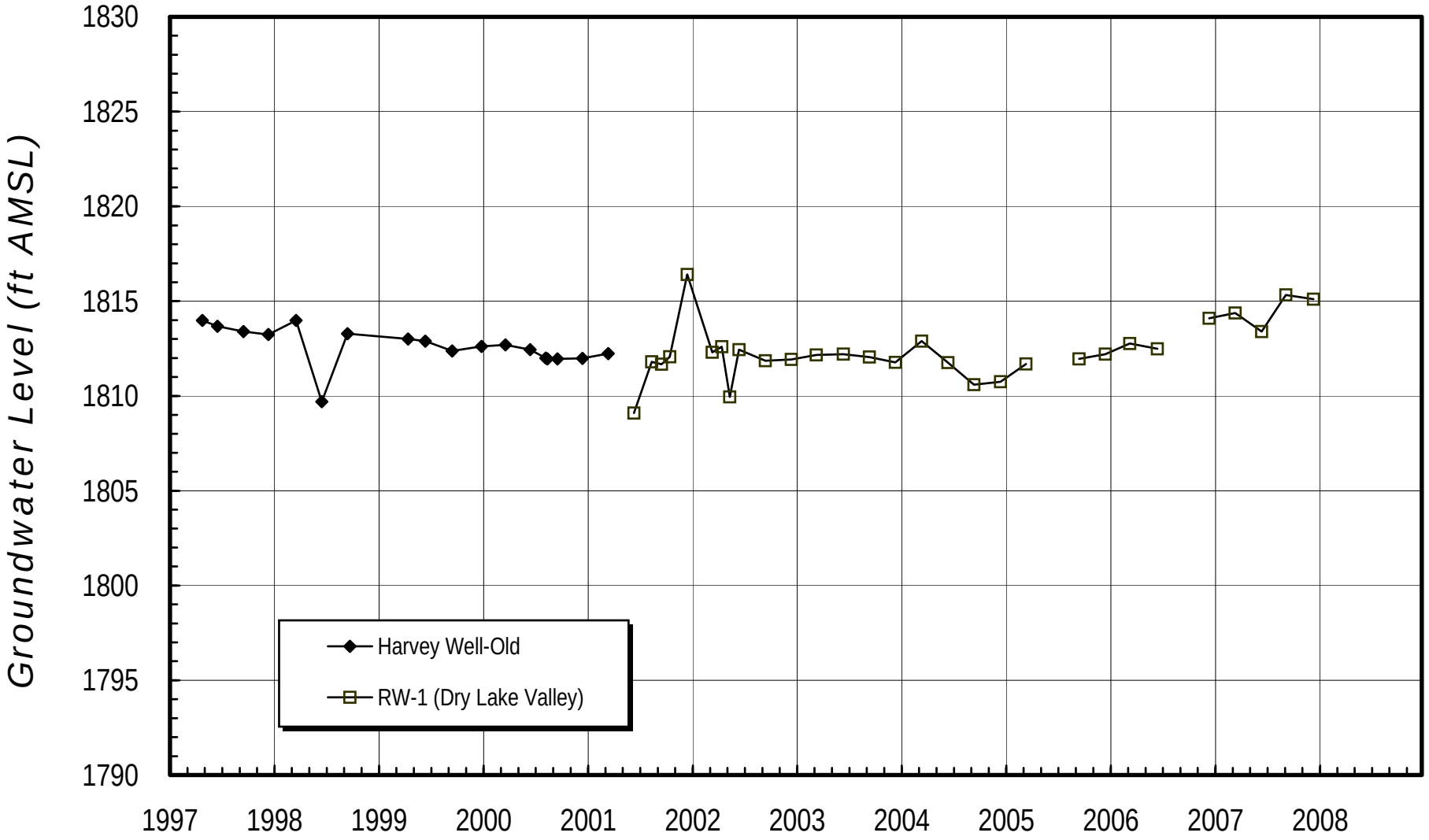
Carbonate Well Locations

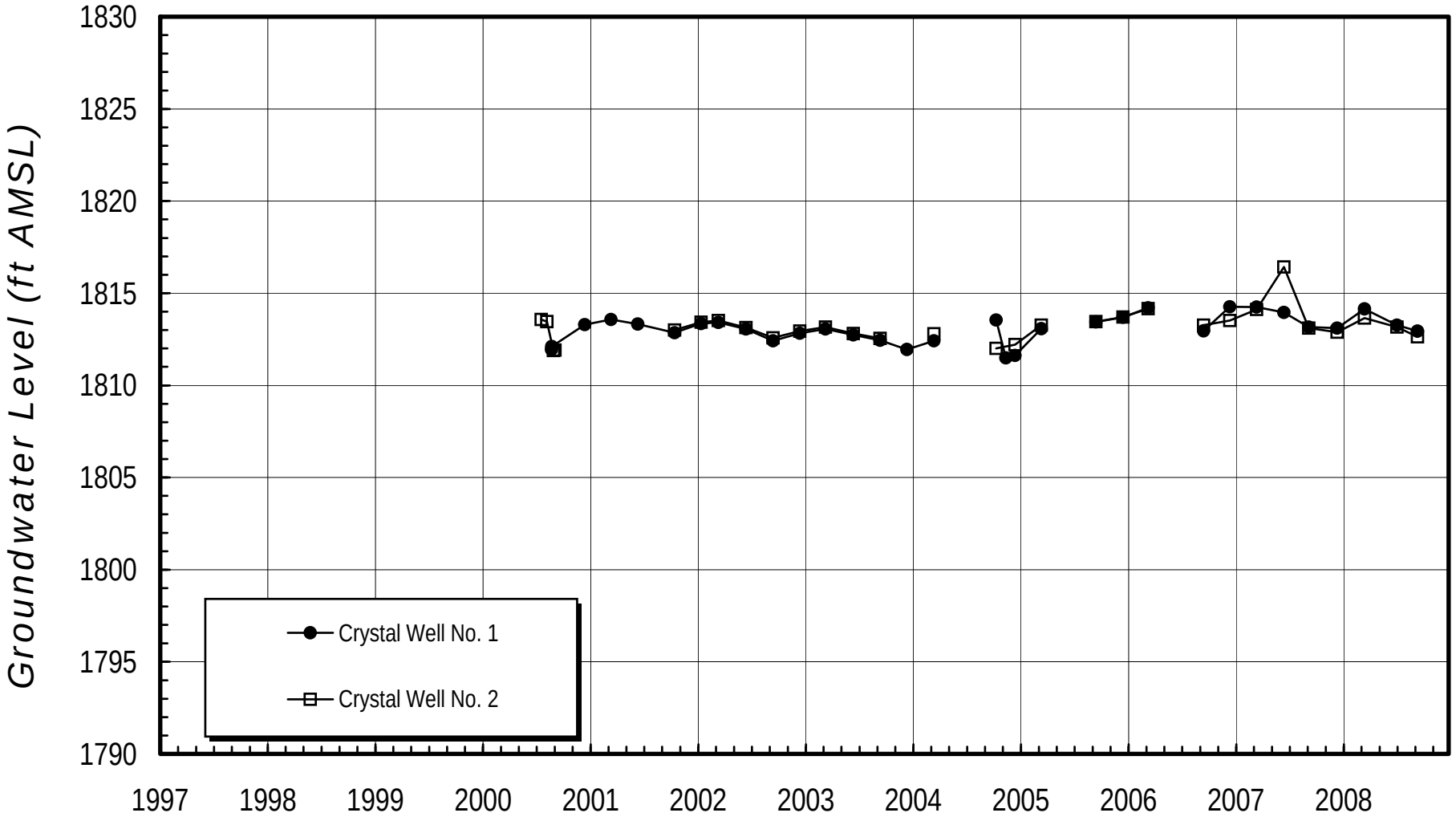


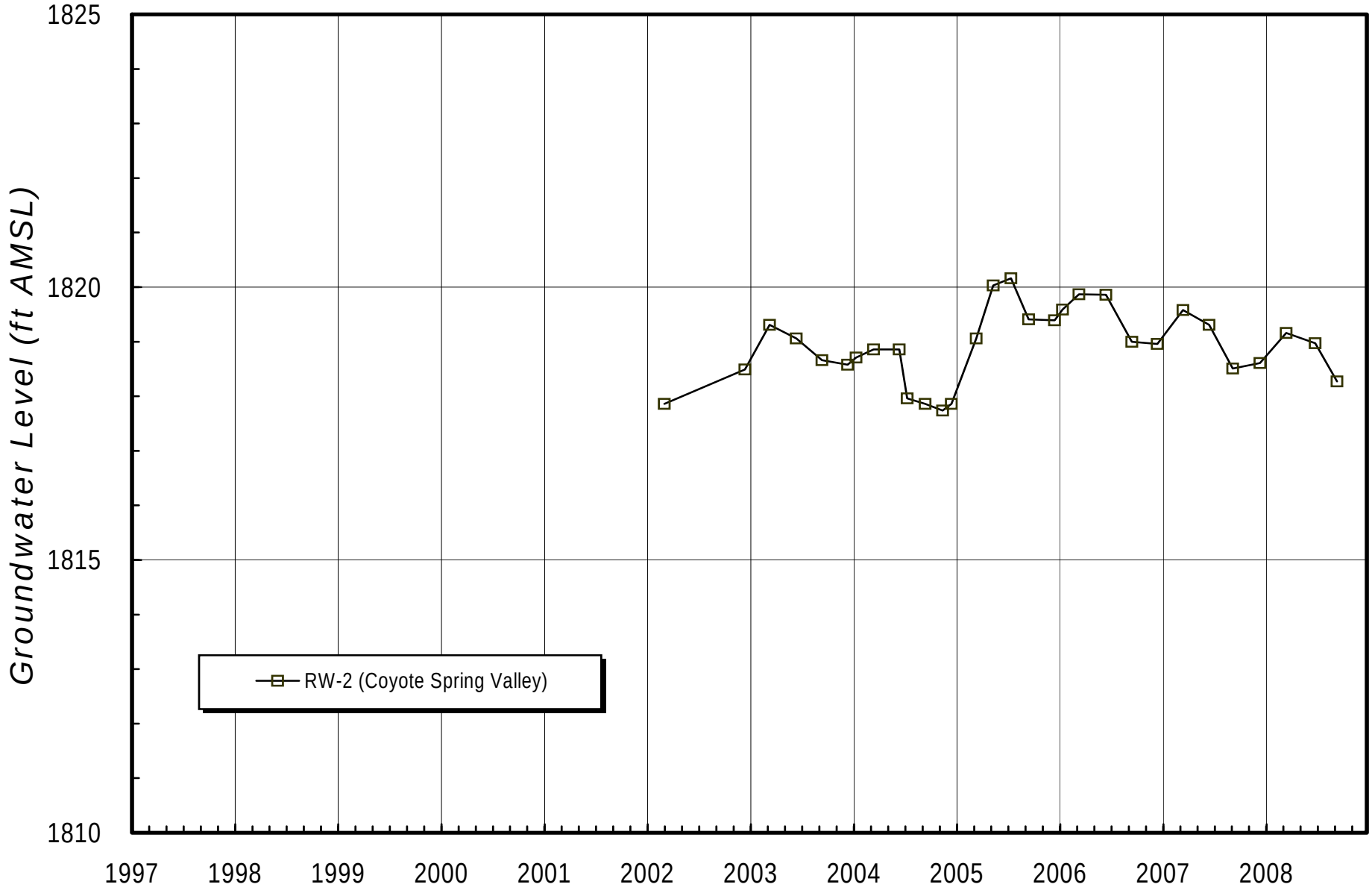

USGS CSV-2 (Coyote Spring Valley)
Groundwater Level (ft AMSL)
1800
1799
1798
1797
1796
1795
1794
1793
1792
1791
1790
1989
1990
1991
1992
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008


Groundwater Level (ft AMSL)
1820
1819
1818
1817
1816
1815
1814
1813
1812
1811
1810
1987 1988 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008
EH-4 (Battleship Wash)
EH-5b (Arrow Canyon)


EH-7 (Weiser Wash, South)
EH-3 (Weiser Wash, North)
Groundwater Level (ft AMSL), EH-7
Groundwater Level (ft AMSL), EH-3
1565
1564.5
1564
1563.5
1563
1562.5
1562
1545
1544.5
1544
1543.5
1543
1542.5
1542
1541.5
1541
1540.5
1540
1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008


Groundwater Level (ft AMSL)
1830
1825
1820
1815
1810
1805
1800
1795
1790
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
Harvey Well-Old
RW-1 (Dry Lake Valley)


Groundwater Level (ft AMSL)
1830
1825
1820
1815
1810
1805
1800
1795
1790
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
Crystal Well No. 1
Crystal Well No. 2


1825
1820
1815
1810
Groundwater Level (ft AMSL)
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
RW-2 (Coyote Spring Valley)

Summary

- In compliance with the conditions of Order 1169, NV Energy has submitted the following data to the State:
  - Historic water level reports from 1987 - 2007 (submitted on 10/16/2008)
  - 2008 1st quarter water level report
  - Annual Pumpage Data through 2007

Data Submitted to:
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Staff Engineer
Nevada Division of Water Resources
901 South Stewart Street, Suite 2001
Carson City, Nevada 89701