

## **Appendix M: Water Quality Trend Analysis Results**

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# **NORTH AMERICAN SUBBASIN GROUNDWATER SUSTAINABILITY PLAN**

## **APPENDIX M Water Quality Trend Analysis Results**

**December 2021**

**Graphs can be made available by request  
using contact information on  
[nasbgroundwater.org](http://nasbgroundwater.org)**

## APPENDIX M – WATER QUALITY TRENDS

### METHODS AND APPROACH

A statistical trend analysis of the data was performed using the Mann-Kendall method when the well had more than five samples for a given element. This method is a nonparametric (for example, does not assume a distribution in the data) test for identifying trends in time-series data. The Mann-Kendall test for trend detection assumes that the sample data are serially independent since the presence of positive serial correlation increases the probability that the Mann-Kendall test detects trend even though no such trend exists. The accepted approach is to remove the serial correlation from the time series before application of the test. This process is called the pre-whitening (Zhang et al. 2001; Burn and Elnur 2002). After removing the effect of serial correlation from the respective time series by pre-whitening, the Mann-Kendall test compares the relative magnitudes of sample data rather than the data values themselves. The initial value of the Mann-Kendall statistic,  $S$ , was assumed to be 0 (that is, no trend). If a concentration from a later sampling event is higher than a concentration from an earlier sampling event,  $S$  is incremented by 1. Conversely, if the concentration from a later sampling event is lower than a concentration sampled earlier,  $S$  is decremented by 1. Then the Mann-Kendall statistic ( $S$ ) is given by

$$S = \sum_{k=1}^{n-1} \sum_{j=k+1}^n \text{Sign}(x_j - x_k)$$

Where:

$$\begin{aligned} \text{Sign}(x_j - x_k) &= 1, \text{ if } x_j - x_k > 0 \\ &= 0, \text{ if } x_j - x_k = 0 \\ &= -1, \text{ if } x_j - x_k < 0 \end{aligned}$$

The net result of all such increments and decrements yields the final value of  $S$ . A very high positive value of  $S$  is an indicator of an increasing trend, and a very low negative value indicates a decreasing trend. However, it is necessary to compute the probability associated with  $S$  and the sample size,  $n$ , to statistically quantify the significance of the trend. Kendall (1975) describes a normal-approximation test statistic  $Z$  as follows:

$$\begin{aligned}
Z &= \frac{S - 1}{[\text{VAR}(S)]^{\frac{1}{2}}} \text{ if } S > 0 \\
&= 0, \text{ if } S = 0 \\
&= \frac{S - 1}{[\text{VAR}(S)]^{\frac{1}{2}}} \text{ if } S < 0
\end{aligned}$$

Probability value (P) is then computed with the normalized test statistic Z. The probability density function for a normal distribution with a mean of 0 and a standard deviation of 1 is given by the following equation:

$$f(z) = \frac{1}{\sqrt{2\pi}} e^{-\frac{z^2}{2}}$$

A P-value less than 0.05 (typically  $\leq 0.05$ ) is statistically significant. It indicates strong evidence against the null hypothesis (If the null hypothesis is true, the results are random). The trend is said to be decreasing if Z is negative and the computed probability P is less than the level of significance. The trend is said to be increasing if the Z is positive and the computed probability is less than the level of significance. If the computed probability is greater than the level of significance, there is no trend.

# **Total Dissolved Solids**

Local_ID	Well_info_ID	chemical	h	p	s	tau	trend	var_s	z	datemin	datemax	Latitude_NAD83	Longitude_NAD83
2934	11N03E24D001M	TDS	FALSE	0.368	7	0.333	no trend	44.3	0.9	7/21/1964	8/18/2004	38.7906	-121.5973
2940	11N04E04R002M	TDS	FALSE	0.308	-4	-0.667	no trend	8.7	-1.02	8/12/1971	8/24/2005	38.8255	-121.5259
2957	11N04E23P002M	TDS	FALSE	0.133	9	0.6	no trend	28.3	1.5	4/15/1965	8/18/2004	38.7837	-121.4982
2943	11N04E35J001M	TDS	FALSE	0.308	4	0.667	no trend	8.7	1.02	8/13/1971	8/24/2005	38.7556	-121.4898
2083	11N06E17D001M	TDS	TRUE	0.001	584	0.281	increasing	31200	3.3	5/5/2004	3/26/2008	38.8064	-121.3353
2081	11N06E17D002M	TDS	FALSE	0.111	-363	-0.124	no trend	51691.7	-1.59	5/6/2004	3/26/2008	38.8027	-121.3384
2080	11N06E17D003M	TDS	FALSE	0.623	65	0.047	no trend	16994.3	0.49	5/5/2004	3/26/2008	38.8059	-121.3358
2082	11N06E17E001M	TDS	TRUE	0	564	0.353	increasing	21102.7	3.88	5/5/2004	3/26/2008	38.8058	-121.3354
2953	12N03E26R001M	TDS	FALSE	0.707	3	0.2	no trend	28.3	0.38	6/13/1963	8/18/2004	38.8533	-121.5991
2967	12N04E05R005M	TDS	FALSE	0.26	7	0.467	no trend	28.3	1.13	8/25/1970	8/18/2004	38.9114	-121.5447
2956	12N04E25N001M	TDS	FALSE	0.707	3	0.2	no trend	28.3	0.38	6/12/1969	8/25/2005	38.8546	-121.4859
2059	3100538-001	TDS	FALSE	0.089	6	1	no trend	8.7	1.7	3/18/2004	3/23/2018	38.7505	-121.321972
2057	3110004-002	TDS	FALSE	0.133	-9	-0.6	no trend	28.3	-1.5	4/24/2001	1/15/2015	38.868006	-121.320358
2068	3110004-003	TDS	FALSE	0.452	5	0.333	no trend	28.3	0.75	11/9/2004	4/27/2017	38.86973	-121.330213
2061	3110004-011	TDS	FALSE	0.308	-4	-0.667	no trend	8.7	-1.02	12/7/2005	1/15/2015	38.865086	-121.347261
2069	3110008-003	TDS	FALSE	0.47	3	0.5	no trend	7.7	0.72	10/26/1992	1/8/2010	38.753022	-121.279492
2071	3110008-006	TDS	FALSE	0.221	6	0.6	no trend	16.7	1.22	10/27/1992	9/5/2013	38.736633	-121.277875
2066	3110008-007	TDS	FALSE	0.462	4	0.4	no trend	16.7	0.73	10/26/1992	9/5/2013	38.726493	-121.258205
2050	3110008-008	TDS	FALSE	0.707	3	0.2	no trend	28.3	0.38	10/22/2002	8/23/2018	38.805938	-121.33588
2064	3110025-005	TDS	FALSE	0.181	-28	-0.267	no trend	407.3	-1.34	7/26/1989	9/12/2019	38.818889	-121.131
2063	3110040-001	TDS	FALSE	0.085	23	0.418	no trend	163	1.72	9/27/1988	7/9/2002	38.75	-121.34722
2067	3110040-002	TDS	FALSE	0.154	14	0.389	no trend	83.3	1.42	8/31/1989	7/9/2002	38.75	-121.34444
2054	3110048-001	TDS	FALSE	0.308	-4	-0.667	no trend	8.7	-1.02	3/31/2004	4/9/2018	38.983062	-121.375659
2058	3110048-002	TDS	FALSE	0.734	-2	-0.333	no trend	8.7	-0.34	3/31/2004	4/9/2018	38.980075	-121.369185
145	3400173-002	TDS	FALSE	0.734	2	0.333	no trend	8.7	0.34	5/24/2001	2/14/2017	38.640638	-121.483861
79	3400179-001	TDS	FALSE	0.308	-4	-0.667	no trend	8.7	-1.02	6/21/2007	3/20/2019	38.6575	-121.378333
57	3400190-001	TDS	FALSE	0.308	-4	-0.667	no trend	8.7	-1.02	6/21/2007	3/20/2019	38.675861	-121.326329
272	3400191-001	TDS	FALSE	0.734	2	0.333	no trend	8.7	0.34	6/28/2007	3/20/2019	38.65525	-121.379888
193	3410001-001	TDS	FALSE	0.452	5	0.333	no trend	28.3	0.75	1/12/1993	9/5/2017	38.606839	-121.3982
242	3410001-002	TDS	FALSE	1	1	0.067	no trend	28.3	0	2/5/1998	7/18/2017	38.59783	-121.398024
258	3410001-004	TDS	FALSE	0.085	-10	-0.667	no trend	27.3	-1.72	1/12/1993	6/19/2014	38.611483	-121.410107
284	3410001-005	TDS	FALSE	0.452	5	0.333	no trend	28.3	0.75	2/25/1991	6/8/2011	38.623478	-121.396638
203	3410001-007	TDS	FALSE	0.548	5	0.238	no trend	44.3	0.6	7/9/1990	9/27/2017	38.610999	-121.363391
212	3410001-010	TDS	FALSE	0.23	9	0.429	no trend	44.3	1.2	7/10/1990	9/12/2017	38.608099	-121.408153
158	3410001-011	TDS	FALSE	0.902	-2	-0.071	no trend	65.3	-0.12	1/30/1992	9/14/2017	38.619863	-121.396184
228	3410001-012	TDS	FALSE	0.386	8	0.286	no trend	65.3	0.87	2/25/1991	12/12/2017	38.617662	-121.403695
82	3410001-013	TDS	FALSE	1	0	0	no trend	43.3	0	1/28/1992	9/26/2017	38.598939	-121.370714
146	3410001-014	TDS	FALSE	0.221	6	0.6	no trend	16.7	1.22	7/10/1990	9/26/2006	38.61171	-121.386048
260	3410001-015	TDS	FALSE	0.879	-2	-0.095	no trend	43.3	-0.15	11/1/1988	9/19/2017	38.59781	-121.381308
191	3410001-016	TDS	FALSE	0.707	3	0.2	no trend	28.3	0.38	2/22/1991	9/4/2014	38.631327	-121.37485
124	3410001-017	TDS	FALSE	0.06	-11	-0.733	no trend	28.3	-1.88	1/30/1992	8/27/2014	38.61981	-121.403732
211	3410001-018	TDS	FALSE	0.764	3	0.143	no trend	44.3	0.3	2/22/1991	9/19/2017	38.623854	-121.374359
209	3410001-019	TDS	FALSE	0.072	13	0.619	no trend	44.3	1.8	1/27/1992	9/25/2017	38.597831	-121.359623
114	3410001-020	TDS	TRUE	0.035	15	0.714	increasing	44.3	2.1	1/27/1992	9/19/2017	38.618079	-121.359205
210	3410001-021	TDS	FALSE	0.095	12	0.571	no trend	43.3	1.67	7/9/1990	9/12/2017	38.615256	-121.419986
161	3410001-022	TDS	FALSE	0.707	3	0.2	no trend	28.3	0.38	2/5/1998	9/11/2017	38.604549	-121.42274
222	3410001-025	TDS	FALSE	0.879	2	0.095	no trend	43.3	0.15	2/22/1991	9/19/2017	38.60046	-121.359118
113	3410001-027	TDS	FALSE	0.072	13	0.619	no trend	44.3	1.8	1/30/1992	9/27/2017	38.605146	-121.390988
244	3410001-028	TDS	FALSE	0.707	3	0.2	no trend	28.3	0.38	1/30/1992	8/21/2014	38.63562	-121.381097
227	3410001-029	TDS	FALSE	0.848	2	0.133	no trend	27.3	0.19	1/30/1992	10/3/2017	38.630252	-121.397575
236	3410001-030	TDS	FALSE	1	1	0.067	no trend	28.3	0	1/29/1992	9/26/2017	38.617802	-121.424022
81	3410001-032	TDS	FALSE	0.26	-7	-0.467	no trend	28.3	-1.13	7/9/1990	9/19/2017	38.622918	-121.413817
104	3410001-033	TDS	FALSE	0.06	11	0.733	no trend	28.3	1.88	1/29/1992	7/10/2014	38.601378	-121.424
173	3410001-034	TDS	FALSE	0.707	3	0.2	no trend	28.3	0.38	7/9/1990	9/11/2017	38.584674	-121.396539
169	3410001-035	TDS	FALSE	0.23	9	0.429	no trend	44.3	1.2	7/9/1990	9/28/2017	38.594464	-121.351844
19	3410001-038	TDS	FALSE	0.086	8	0.8	no trend	16.7	1.71	1/28/1992	6/9/2011	38.578371	-121.363395
20	3410001-039	TDS	FALSE	0.308	-4	-0.667	no trend	8.7	-1.02	2/22/1991	9/18/2006	38.591742	-121.346413
168	3410001-042	TDS	FALSE	0.548	5	0.238	no trend	44.3	0.6	2/22/1991	9/12/2017	38.628014	-121.358648
184	3410001-051	TDS	FALSE	0.548	5	0.238	no trend	44.3	0.6	7/9/1990	9/11/2017	38.636187	-121.375067
111	3410001-052	TDS	FALSE	0.848	-2	-0.133	no trend	27.3	-0.19	7/9/1990	9/11/2017	38.625054	-121.362252
287	3410001-054	TDS	FALSE	1	1	0.048	no trend	44.3	0	2/11/1991	9/13/2017	38.582422	-121.408379
122	3410001-055	TDS	FALSE	0.133	11	0.524	no trend	44.3	1.5	11/1/1988	12/13/2017	38.594474	-121.39864
26	3410001-056	TDS	FALSE	0.23	-9	-0.429	no trend	44.3	-1.2	1/12/1993	9/13/2017	38.578749	-121.41096
3	3410001-061	TDS	FALSE	0.133	-11	-0.524	no trend	44.3	-1.5	5/7/1998	9/26/2017	38.582786	-121.338489
176	3410001-062	TDS	FALSE	0.707	3	0.2	no trend	28.3	0.38	8/22/2000	9/5/2017	38.618056	-121.401944
12	3410001-064	TDS	FALSE	0.221	6	0.6	no trend	16.7	1.22	4/23/2002	9/12/2017	38.584121	-121.353432
13	3410001-065	TDS	TRUE	0.027	-10	-1	decreasing	16.7	-2.2	4/22/2002	9/21/2017	38.583196	-121.33679
4	3410001-066	TDS	FALSE	0.221	-6	-0.6	no trend	16.7	-1.22	4/23/2002	9/12/2017	38.582214	-121.338203
2	3410001-067	TDS	FALSE	0.308	4	0.667	no trend	8.7	1.02	6/3/1999	10/1/2014	38.582481	-121.417169
225	3410001-069	TDS	FALSE	0.23	9	0.429	no trend	44.3	1.2	2/26/1992	9/28/2017	38.580609	-121.384004
255	3410001-070	TDS	FALSE	0.875	2	0.095	no trend	40.7	0.16	2/12/1991	9/12/2017	38.576006	-121.403088

205	3410001-071	TDS	FALSE	0.806	-2	-0.2	no trend	16.7	-0.24	4/17/2002	9/14/2017	38.63056	-121.397787
106	3410001-072	TDS	FALSE	0.806	2	0.2	no trend	16.7	0.24	4/17/2002	9/12/2017	38.61744	-121.411527
252	3410001-073	TDS	FALSE	0.462	-4	-0.4	no trend	16.7	-0.73	4/17/2002	9/7/2017	38.58058	-121.383962
58	3410001-076	TDS	FALSE	1	0	0	no trend	65.3	0	4/29/1988	7/10/2019	38.644265	-121.362069
69	3410001-077	TDS	FALSE	0.295	11	0.306	no trend	91	1.05	4/20/1988	7/10/2019	38.631522	-121.352911
86	3410001-078	TDS	FALSE	0.529	7	0.194	no trend	91	0.63	4/29/1988	7/9/2019	38.684818	-121.355931
259	3410001-079	TDS	FALSE	1	1	0.067	no trend	28.3	0	6/30/1988	7/24/2013	38.667577	-121.334161
110	3410001-080	TDS	FALSE	0.917	-2	-0.056	no trend	92	-0.1	6/23/1988	7/17/2019	38.672567	-121.331573
174	3410001-081	TDS	TRUE	0.049	-23	-0.511	decreasing	125	-1.97	6/30/1988	7/22/2019	38.683333	-121.333333
71	3410001-082	TDS	FALSE	0.142	15	0.417	no trend	91	1.47	10/19/1988	7/21/2016	38.648929	-121.338368
246	3410001-083	TDS	FALSE	0.454	7	0.25	no trend	64.3	0.75	4/29/1988	7/9/2019	38.663692	-121.347786
239	3410001-085	TDS	FALSE	0.474	-9	-0.2	no trend	125	-0.72	6/23/1988	7/17/2019	38.644208	-121.329841
49	3410001-087	TDS	FALSE	0.175	14	0.389	no trend	92	1.36	7/28/1988	7/11/2019	38.645858	-121.392317
218	3410001-088	TDS	FALSE	0.368	7	0.333	no trend	44.3	0.9	4/9/1987	7/11/2013	38.668746	-121.361
89	3410001-089	TDS	FALSE	0.419	-10	-0.222	no trend	124	-0.81	4/20/1988	7/9/2019	38.653579	-121.379692
132	3410001-092	TDS	FALSE	0.118	16	0.444	no trend	92	1.56	6/23/1988	7/20/2016	38.63889	-121.342759
185	3410001-094	TDS	FALSE	0.076	18	0.5	no trend	92	1.77	6/23/1988	7/10/2019	38.652299	-121.354305
196	3410001-095	TDS	FALSE	0.089	6	1	no trend	8.7	1.7	6/30/1988	6/21/2007	38.658062	-121.356402
297	3410001-096	TDS	FALSE	0.105	19	0.422	no trend	123	1.62	6/30/1988	7/9/2019	38.689669	-121.360198
102	3410001-097	TDS	FALSE	0.178	16	0.356	no trend	124	1.35	4/20/1988	7/11/2019	38.694158	-121.360024
256	3410001-098	TDS	FALSE	0.785	4	0.089	no trend	121.3	0.27	4/29/1988	7/9/2019	38.700217	-121.351805
295	3410001-099	TDS	FALSE	1	0	0	no trend	8.7	0	10/20/1988	6/21/2007	38.655401	-121.313482
46	3410001-101	TDS	FALSE	0.754	4	0.111	no trend	92	0.31	10/27/1988	7/7/2016	38.663926	-121.32579
231	3410001-102	TDS	FALSE	0.711	4	0.143	no trend	65.3	0.37	10/20/1988	7/15/2019	38.675049	-121.315501
101	3410001-103	TDS	FALSE	1	0	0	no trend	12	0	10/25/1988	11/13/2013	38.651225	-121.32298
163	3410001-104	TDS	FALSE	0.395	9	0.25	no trend	88.3	0.85	2/1/1993	7/10/2019	38.710442	-121.331662
180	3410001-105	TDS	FALSE	1	0	0	no trend	65.3	0	11/4/1996	7/10/2019	38.710528	-121.331667
262	3410001-106	TDS	FALSE	0.089	6	1	no trend	8.7	1.7	6/28/2001	7/8/2013	38.710517	-121.331659
85	3410001-107	TDS	FALSE	0.339	6	0.4	no trend	27.3	0.96	11/4/1996	7/14/2016	38.709903	-121.357066
127	3410001-111	TDS	FALSE	0.386	8	0.286	no trend	65.3	0.87	12/13/1995	7/11/2019	38.665363	-121.383099
254	3410001-127	TDS	FALSE	0.26	7	0.467	no trend	28.3	1.13	12/13/1995	7/29/2013	38.712268	-121.381099
283	3410001-128	TDS	FALSE	0.221	6	0.6	no trend	16.7	1.22	12/13/1995	6/17/2010	38.709783	-121.374669
149	3410001-129	TDS	TRUE	0.009	15	1	increasing	28.3	2.63	12/13/1995	7/29/2013	38.710651	-121.387666
118	3410001-133	TDS	FALSE	0.445	-7	-0.25	no trend	61.7	-0.76	2/25/1991	7/22/2019	38.682932	-121.376063
182	3410001-135	TDS	FALSE	0.06	-11	-0.733	no trend	28.3	-1.88	2/5/1998	11/7/2016	38.68794	-121.385107
99	3410001-136	TDS	FALSE	0.072	13	0.619	no trend	44.3	1.8	2/25/1991	3/27/2018	38.685899	-121.372701
141	3410001-137	TDS	FALSE	0.707	3	0.2	no trend	28.3	0.38	2/25/1991	7/29/2013	38.692847	-121.375953
183	3410001-139	TDS	FALSE	0.764	3	0.143	no trend	44.3	0.3	6/30/1988	7/19/2016	38.69191	-121.364477
280	3410001-142	TDS	FALSE	0.764	3	0.143	no trend	44.3	0.3	7/20/1989	7/11/2016	38.686782	-121.392424
197	3410001-144	TDS	FALSE	0.135	13	0.464	no trend	64.3	1.5	2/25/1991	7/23/2019	38.69798	-121.373877
213	3410001-145	TDS	FALSE	0.133	9	0.6	no trend	28.3	1.5	4/22/2002	7/10/2019	38.67526	-121.379573
315	3410002-001	TDS	FALSE	0.142	15	0.417	no trend	91	1.47	2/20/1991	2/8/2017	38.583333	-121.383333
117	3410002-002	TDS	FALSE	0.386	8	0.286	no trend	65.3	0.87	7/17/1990	2/8/2017	38.583333	-121.366667
28	3410002-007	TDS	FALSE	0.23	9	0.429	no trend	44.3	1.2	7/17/1990	2/14/2017	38.566667	-121.4
10	3410002-012	TDS	FALSE	1	1	0.067	no trend	28.3	0	7/17/1990	5/8/2017	38.566667	-121.416667
17	3410002-013	TDS	FALSE	0.902	-2	-0.071	no trend	65.3	-0.12	7/17/1990	2/14/2017	38.583333	-121.416667
249	3410002-014	TDS	FALSE	1	0	0	no trend	65.3	0	1/19/1993	5/8/2017	38.583333	-121.366667
152	3410003-001	TDS	FALSE	0.622	10	0.11	no trend	332.7	0.49	9/5/1990	2/6/2019	38.587545	-121.385145
153	3410003-002	TDS	FALSE	0.15	22	0.333	no trend	212.7	1.44	4/11/1986	2/28/2017	38.582537	-121.383219
245	3410003-004	TDS	FALSE	0.221	6	0.6	no trend	16.7	1.22	9/19/1990	1/25/2005	38.587611	-121.392074
162	3410003-005	TDS	FALSE	0.276	15	0.273	no trend	165	1.09	4/2/1987	7/11/2017	38.591017	-121.384139
251	3410003-006	TDS	FALSE	0.21	15	0.333	no trend	125	1.25	4/2/1987	2/28/2017	38.59211	-121.387633
238	3410003-008	TDS	FALSE	0.276	15	0.273	no trend	165	1.09	4/2/1987	2/28/2017	38.600074	-121.391973
74	3410004-001	TDS	FALSE	0.371	11	0.244	no trend	125	0.89	1/29/1998	2/3/2004	38.645432	-121.313067
83	3410004-004	TDS	FALSE	0.276	23	0.219	no trend	408.3	1.09	2/19/1991	1/28/2010	38.64988	-121.30798
175	3410004-005	TDS	FALSE	1	-1	-0.067	no trend	28.3	0	3/1/1991	10/4/2001	38.633333	-121.35
172	3410004-006	TDS	FALSE	0.323	-36	-0.156	no trend	1254.7	-0.99	8/1/1990	6/1/2017	38.622744	-121.335704
6	3410004-007	TDS	FALSE	0.928	2	0.044	no trend	124	0.09	8/1/1990	10/23/2002	38.594673	-121.334606
150	3410004-009	TDS	FALSE	0.494	-24	-0.104	no trend	1132.7	-0.68	2/19/1991	6/1/2017	38.619652	-121.333354
261	3410004-016	TDS	TRUE	0.037	80	0.316	increasing	1432.7	2.09	5/8/1987	6/1/2017	38.645576	-121.306819
248	3410004-020	TDS	FALSE	0.139	28	0.308	no trend	332.7	1.48	4/25/2002	6/1/2017	38.641845	-121.315446
139	3410004-021	TDS	FALSE	1	-1	-0.015	no trend	211.7	0	4/23/2002	6/1/2017	38.604804	-121.342252
290	3410006-001	TDS	FALSE	1	0	0	no trend	43.3	0	12/20/1990	2/20/2013	38.661305	-121.292607
198	3410006-008	TDS	FALSE	1	-1	-0.067	no trend	28.3	0	12/6/1990	2/20/2013	38.679425	-121.289154
130	3410007-001	TDS	FALSE	1	0	0	no trend	8.7	0	4/10/1992	6/24/2010	38.613787	-121.367811
229	3410007-002	TDS	FALSE	0.181	8	0.533	no trend	27.3	1.34	1/25/2001	8/7/2019	38.613607	-121.371676
216	3410007-003	TDS	FALSE	1	1	0.067	no trend	28.3	0	2/19/1991	8/22/2016	38.606352	-121.369707
269	3410007-004	TDS	FALSE	0.566	4	0.267	no trend	27.3	0.57	1/25/2001	8/6/2019	38.607768	-121.374083
77	3410007-005	TDS	FALSE	0.566	4	0.267	no trend	27.3	0.57	1/25/2001	8/6/2019	38.61458	-121.378552
195	3410007-007	TDS	FALSE	0.452	5	0.333	no trend	28.3	0.75	1/25/2001	8/6/2019	38.606531	-121.380719
253	3410007-008	TDS	FALSE	0.356	7	0.333	no trend	42.3	0.92	1/26/1993	8/13/2019	38.613172	-121.380739
166	3410009-001	TDS	FALSE	0.308	4	0.667	no trend	8.7	1.02	1/28/1993	6/16/2004	38.643048	-121.268528



105	3410009-004	TDS	FALSE	0.06	11	0.733	no trend	28.3	1.88	8/2/1990	6/6/2006	38.651282	-121.255173
78	3410009-005	TDS	FALSE	0.221	6	0.6	no trend	16.7	1.22	2/28/1991	6/16/2004	38.650805	-121.286999
201	3410009-006	TDS	TRUE	0.048	-20	-0.556	decreasing	92	-1.98	2/28/1991	6/14/2012	38.642768	-121.278261
234	3410009-007	TDS	FALSE	0.915	2	0.056	no trend	87.3	0.11	7/19/1989	6/14/2012	38.651297	-121.296666
217	3410009-008	TDS	TRUE	0.009	15	1	increasing	28.3	2.63	8/16/1990	6/6/2006	38.662066	-121.265396
164	3410009-010	TDS	TRUE	0.009	-26	-0.722	decreasing	92	-2.61	11/7/1991	6/14/2012	38.659628	-121.255556
93	3410013-001	TDS	FALSE	0.945	2	0.03	no trend	212.7	0.07	10/7/1992	8/13/2018	38.694922	-121.332628
159	3410013-002	TDS	FALSE	0.283	13	0.289	no trend	125	1.07	2/18/1992	8/13/2018	38.69054	-121.34151
51	3410013-003	TDS	FALSE	0.858	3	0.067	no trend	125	0.18	11/2/1988	8/16/2018	38.683982	-121.31348
240	3410013-004	TDS	FALSE	0.582	-9	-0.136	no trend	211.7	-0.55	7/2/1990	8/7/2018	38.699328	-121.295627
178	3410013-005	TDS	FALSE	0.679	7	0.106	no trend	209.7	0.41	7/2/1990	8/7/2018	38.669042	-121.293798
63	3410013-006	TDS	FALSE	0.099	-25	-0.379	no trend	211.7	-1.65	2/11/1992	8/8/2018	38.685052	-121.305855
156	3410013-007	TDS	FALSE	0.144	12	0.429	no trend	56.7	1.46	7/2/1990	8/19/2015	38.691478	-121.336784
270	3410013-008	TDS	FALSE	0.184	18	0.327	no trend	164	1.33	2/13/1991	8/16/2018	38.673506	-121.340002
224	3410013-009	TDS	FALSE	0.371	11	0.244	no trend	125	0.89	2/11/1992	8/7/2018	38.695662	-121.29509
92	3410013-010	TDS	FALSE	0.088	20	0.444	no trend	124	1.71	2/11/1992	8/15/2018	38.670117	-121.341406
237	3410013-012	TDS	FALSE	0.631	8	0.121	no trend	212.7	0.48	7/2/1990	8/13/2018	38.66565	-121.302524
223	3410013-013	TDS	FALSE	0.283	-13	-0.289	no trend	125	-1.07	2/12/1991	8/13/2018	38.678824	-121.304628
144	3410013-014	TDS	FALSE	0.858	3	0.067	no trend	125	0.18	2/12/1991	8/8/2018	38.668822	-121.304482
112	3410013-015	TDS	FALSE	0.531	9	0.164	no trend	163	0.63	2/18/1992	8/6/2018	38.70124	-121.345319
233	3410013-016	TDS	FALSE	0.938	-2	-0.036	no trend	164	-0.08	2/11/1993	8/13/2018	38.709473	-121.292244
265	3410013-017	TDS	FALSE	0.072	13	0.619	no trend	44.3	1.8	2/11/1992	8/24/2006	38.712243	-121.303547
247	3410013-019	TDS	FALSE	0.161	19	0.345	no trend	165	1.4	7/2/1990	8/6/2018	38.700287	-121.330955
226	3410013-020	TDS	FALSE	0.452	5	0.333	no trend	28.3	0.75	2/12/1991	8/24/2006	38.716217	-121.294262
88	3410013-021	TDS	FALSE	0.721	5	0.111	no trend	125	0.36	2/13/1991	8/8/2018	38.683333	-121.35
232	3410013-022	TDS	FALSE	0.445	7	0.25	no trend	61.7	0.76	2/18/1992	9/11/2012	38.7124	-121.306829
189	3410013-023	TDS	FALSE	0.917	-2	-0.056	no trend	92	-0.1	2/11/1992	8/7/2018	38.695536	-121.313454
66	3410013-024	TDS	FALSE	0.244	18	0.273	no trend	212.7	1.17	2/11/1992	8/7/2018	38.680539	-121.31067
220	3410013-025	TDS	FALSE	0.585	8	0.145	no trend	164	0.55	2/18/1992	8/13/2018	38.718426	-121.313299
188	3410013-026	TDS	FALSE	0.528	9	0.164	no trend	160.3	0.63	7/2/1990	8/6/2018	38.701667	-121.344722
119	3410013-027	TDS	FALSE	0.107	19	0.422	no trend	125	1.61	2/18/1992	9/18/2012	38.709413	-121.317252
165	3410013-028	TDS	FALSE	1	0	0	no trend	43.3	0	4/21/1997	8/13/2018	38.698857	-121.32618
147	3410016-002	TDS	FALSE	0.312	5	0.5	no trend	15.7	1.01	4/18/1991	1/17/2013	38.694541	-121.210813
24	3410020-015	TDS	FALSE	1	0	0	no trend	65.3	0	1/17/1992	4/3/2017	38.6125	-121.479167
11	3410020-016	TDS	FALSE	0.711	4	0.143	no trend	65.3	0.37	1/17/1992	1/20/2015	38.616667	-121.479167
293	3410020-017	TDS	TRUE	0.043	27	0.491	increasing	165	2.02	11/18/1988	10/9/2017	38.62266	-121.477813
84	3410020-018	TDS	FALSE	0.107	19	0.422	no trend	125	1.61	1/17/1992	5/8/2017	38.627831	-121.477227
292	3410020-021	TDS	FALSE	0.452	-5	-0.333	no trend	28.3	-0.75	1/21/1992	10/12/2011	38.607083	-121.454779
97	3410020-022	TDS	FALSE	0.592	7	0.156	no trend	125	0.54	11/18/1988	3/20/2017	38.607305	-121.443097
136	3410020-023	TDS	FALSE	0.536	-6	-0.214	no trend	65.3	-0.62	1/21/1992	3/7/2017	38.604956	-121.439486
314	3410020-024	TDS	FALSE	0.152	17	0.378	no trend	125	1.43	11/18/1988	10/10/2011	38.612801	-121.450505
129	3410020-025	TDS	FALSE	0.086	8	0.8	no trend	16.7	1.71	1/21/1992	10/9/2008	38.612294	-121.440456
215	3410020-027	TDS	FALSE	0.592	7	0.156	no trend	125	0.54	1/22/1992	5/8/2017	38.620988	-121.443553
279	3410020-028	TDS	FALSE	0.68	7	0.106	no trend	211.7	0.41	11/18/1988	5/8/2017	38.62044	-121.432285
108	3410020-029	TDS	FALSE	0.251	12	0.333	no trend	92	1.15	1/17/1992	3/20/2017	38.618056	-121.468056
107	3410020-030	TDS	FALSE	0.348	-10	-0.278	no trend	92	-0.94	1/17/1992	5/8/2017	38.625119	-121.462605
59	3410020-032	TDS	FALSE	0.21	-15	-0.333	no trend	125	-1.25	1/16/1991	10/9/2017	38.628503	-121.43627
55	3410020-033	TDS	FALSE	0.754	4	0.111	no trend	92	0.31	11/16/1988	10/10/2011	38.626808	-121.42959
171	3410020-034	TDS	FALSE	0.436	11	0.2	no trend	165	0.78	1/16/1991	3/12/2018	38.638412	-121.446721
73	3410020-035	TDS	FALSE	0.35	-13	-0.236	no trend	165	-0.93	1/16/1991	3/12/2018	38.639934	-121.427293
133	3410020-037	TDS	FALSE	1	-1	-0.018	no trend	165	0	1/16/1991	5/8/2017	38.651207	-121.469509
264	3410020-038	TDS	FALSE	0.436	11	0.2	no trend	165	0.78	1/16/1991	5/8/2017	38.647475	-121.459256
50	3410020-039	TDS	FALSE	0.221	-6	-0.6	no trend	16.7	-1.22	1/22/1992	10/8/2003	38.627595	-121.432917
56	3410020-040	TDS	FALSE	1	1	0.018	no trend	165	0	10/22/1990	5/9/2017	38.629597	-121.420726
278	3410020-041	TDS	FALSE	0.39	12	0.218	no trend	164	0.86	1/16/1991	5/9/2017	38.641387	-121.435795
22	3410020-042	TDS	FALSE	0.063	-16	-0.571	no trend	65.3	-1.86	1/21/1992	3/7/2017	38.596923	-121.458973
294	3410020-044	TDS	FALSE	0.266	10	0.357	no trend	65.3	1.11	10/16/1990	10/10/2011	38.613996	-121.456155
194	3410020-045	TDS	FALSE	0.161	19	0.345	no trend	165	1.4	10/19/1990	5/9/2017	38.622276	-121.446858
134	3410020-046	TDS	TRUE	0.005	-28	-0.778	decreasing	92	-2.81	1/22/1992	9/22/2014	38.623116	-121.427024
157	3410020-050	TDS	FALSE	0.474	-9	-0.2	no trend	125	-0.72	1/16/1991	3/25/2014	38.668053	-121.438012
42	3410020-051	TDS	FALSE	0.64	-7	-0.127	no trend	165	-0.47	1/16/1991	3/12/2018	38.634413	-121.412516
296	3410020-052	TDS	FALSE	0.592	-7	-0.156	no trend	125	-0.54	3/8/1993	5/9/2017	38.599341	-121.445804
214	3410020-054	TDS	FALSE	0.533	-9	-0.164	no trend	165	-0.62	1/21/1992	10/9/2017	38.596324	-121.427308
33	3410020-055	TDS	FALSE	0.35	-13	-0.236	no trend	165	-0.93	1/17/1992	5/9/2017	38.617636	-121.469304
91	3410020-056	TDS	FALSE	0.466	-8	-0.222	no trend	92	-0.73	1/12/1994	5/9/2017	38.654657	-121.448564
291	3410020-057	TDS	FALSE	0.386	-8	-0.286	no trend	65.3	-0.87	1/18/1995	12/19/2018	38.658482	-121.466415
30	3410026-001	TDS	FALSE	0.734	-2	-0.333	no trend	8.7	-0.34	2/21/1991	5/31/2012	38.58961	-121.429343
7	3410026-002	TDS	FALSE	0.806	2	0.2	no trend	16.7	0.24	2/21/1991	5/3/2018	38.588266	-121.423478
31	3410026-003	TDS	FALSE	0.806	-2	-0.2	no trend	16.7	-0.24	2/21/1991	5/3/2018	38.593617	-121.439154
18	3410026-004	TDS	FALSE	0.221	-6	-0.6	no trend	16.7	-1.22	2/21/1991	5/3/2018	38.593339	-121.432431
206	3410031-001	TDS	FALSE	1	0	0	no trend	161.3	0	3/24/1988	8/11/2015	38.720833	-121.358333
190	3410031-002	TDS	FALSE	0.323	12	0.267	no trend	124	0.99	9/10/1993	8/8/2018	38.717222	-121.3575

94	3410031-003	TDS	FALSE	0.928	2	0.044	no trend	121.3	0.09	2/12/1991	8/14/2018	38.7	-121.383333
221	3410031-004	TDS	FALSE	0.584	11	0.121	no trend	333.7	0.55	10/29/1987	8/14/2018	38.718056	-121.382222
61	3410031-005	TDS	FALSE	0.592	7	0.156	no trend	125	0.54	2/26/1992	8/5/2015	38.716667	-121.4
160	3410031-006	TDS	FALSE	0.113	24	0.364	no trend	210.7	1.58	11/2/1988	8/14/2018	38.708333	-121.383611
2073	3410031-007	TDS	TRUE	0.035	-28	-0.509	decreasing	164	-2.11	2/12/1991	8/9/2018	38.733333	-121.35
2056	3410031-008	TDS	FALSE	0.39	12	0.218	no trend	164	0.86	10/7/1992	8/9/2018	38.733333	-121.35
208	3410031-009	TDS	FALSE	0.471	-9	-0.2	no trend	123	-0.72	1/15/1992	8/7/2018	38.715278	-121.378056
72	3410031-010	TDS	FALSE	0.343	-10	-0.278	no trend	90	-0.95	8/29/1995	8/7/2018	38.705	-121.365556
289	3410031-011	TDS	FALSE	0.207	34	0.222	no trend	684.7	1.26	6/21/1990	8/7/2018	38.726944	-121.3825
135	3410031-012	TDS	FALSE	0.858	-3	-0.067	no trend	125	-0.18	6/12/1992	8/7/2018	38.721111	-121.368611
45	3410031-013	TDS	FALSE	0.471	9	0.2	no trend	123	0.72	2/25/1992	8/14/2018	38.711667	-121.413889
54	3410031-014	TDS	FALSE	0.213	17	0.309	no trend	165	1.25	4/15/1987	8/14/2018	38.716111	-121.408889
95	3410031-015	TDS	FALSE	0.221	6	0.6	no trend	16.7	1.22	2/11/1993	8/14/2018	38.716667	-121.416667
241	3410031-016	TDS	FALSE	0.246	-12	-0.333	no trend	90	-1.16	7/16/1996	8/8/2018	38.724444	-121.336111
80	3410031-017	TDS	FALSE	0.386	8	0.286	no trend	65.3	0.87	4/30/1998	8/8/2018	38.723056	-121.349722
257	3410031-018	TDS	TRUE	0.039	24	0.533	increasing	124	2.07	1/9/1996	8/7/2018	38.716389	-121.371944
288	3410045-001	TDS	FALSE	0.436	11	0.2	no trend	165	0.78	2/25/1992	8/7/2018	38.586137	-121.411513
138	3410045-002	TDS	FALSE	0.718	-5	-0.111	no trend	123	-0.36	2/25/1992	8/7/2018	38.583085	-121.413054
116	3410045-003	TDS	FALSE	0.371	-11	-0.244	no trend	125	-0.89	1/21/1993	8/7/2018	38.594423	-121.417465
243	3410045-004	TDS	FALSE	0.348	-10	-0.278	no trend	92	-0.94	7/3/1990	7/24/2012	38.592566	-121.407256
96	3410045-005	TDS	FALSE	0.64	7	0.127	no trend	165	0.47	2/12/1991	8/7/2018	38.600025	-121.410183
2907	5105004-001	TDS	FALSE	0.53	-8	-0.178	no trend	124	-0.63	11/29/2000	12/14/2016	38.777769	-121.52437
2906	5105004-002	TDS	FALSE	0.308	4	0.667	no trend	8.7	1.02	10/21/2009	12/14/2016	38.777766	-121.525116
1880	USGS-383655121301601	TDS	FALSE	0.308	-4	-0.667	no trend	8.7	-1.02	8/3/1998	8/7/2017	38.6157528	-121.5054028
1894	USGS-383659121292201	TDS	FALSE	1	0	0	no trend	8.7	0	8/5/1998	8/8/2017	38.6164833	-121.4903694
1835	USGS-383703121280701	TDS	FALSE	1	1	0.067	no trend	28.3	0	9/21/1982	5/15/2014	38.6175	-121.4688889
1876	USGS-383727121301801	TDS	FALSE	1	0	0	no trend	8.7	0	8/6/1998	8/7/2017	38.6237972	-121.5060556
1859	USGS-383746121291101	TDS	FALSE	0.063	-67	-0.29	no trend	1257.7	-1.86	8/4/1998	8/8/2017	38.6292139	-121.4877028
1855	USGS-383900121270001	TDS	FALSE	0.368	-7	-0.333	no trend	44.3	-0.9	6/14/2005	6/15/2005	38.6585	-121.4664722
1860	USGS-384145121184101	TDS	FALSE	0.284	34	0.179	no trend	950	1.07	8/17/1998	9/4/2012	38.6964	-121.3120389
1869	USGS-384224121261401	TDS	FALSE	0.734	-2	-0.333	no trend	8.7	-0.34	9/22/1982	3/12/2014	38.7064722	-121.4384722
1866	USGS-384301121195101	TDS	FALSE	0.308	4	0.667	no trend	8.7	1.02	6/5/1996	10/2/2017	38.717	-121.3320278
1902	USGS-384318121230001	TDS	FALSE	0.308	4	0.667	no trend	8.7	1.02	8/19/1998	8/21/2017	38.7216389	-121.3841778
1882	USGS-384330121265601	TDS	FALSE	0.308	4	0.667	no trend	8.7	1.02	7/24/1969	5/14/2008	38.7249018	-121.4499544
1882	USGS-384330121265601	TDS	FALSE	0.308	4	0.667	no trend	8.7	1.02	7/24/1969	5/14/2008	38.7249018	-121.4499544
1868	USGS-384330121293901	TDS	TRUE	0.041	64	0.337	increasing	950	2.04	8/11/1997	7/10/2017	38.7251167	-121.4954417
2806	USGS-384413121163801	TDS	FALSE	1	1	0.048	no trend	44.3	0	9/24/1982	3/10/2014	38.7369444	-121.2772222
3035	USGS-384455121292101	TDS	FALSE	0.308	4	0.667	no trend	8.7	1.02	8/7/1996	9/12/2017	38.7487778	-121.4898889
3035	USGS-384455121292101	TDS	FALSE	0.308	4	0.667	no trend	8.7	1.02	8/7/1996	9/12/2017	38.7487778	-121.4898889
2812	USGS-384949121233501	TDS	FALSE	1	0	0	no trend	8.7	0	8/7/1996	10/3/2017	38.8301771	-121.3941209
2812	USGS-384949121233501	TDS	FALSE	1	0	0	no trend	8.7	0	8/7/1996	10/3/2017	38.8301771	-121.3941209
2813	USGS-385432121213001	TDS	FALSE	1	0	0	no trend	8.7	0	6/3/1996	10/18/2017	38.9084167	-121.3590833
2813	USGS-385432121213001	TDS	FALSE	1	0	0	no trend	8.7	0	6/3/1996	10/18/2017	38.9084167	-121.3590833
3034	USGS-385546121312801	TDS	FALSE	0.368	7	0.333	no trend	44.3	0.9	6/3/1965	10/5/2017	38.92925	-121.5254444
3034	USGS-385546121312801	TDS	FALSE	0.368	7	0.333	no trend	44.3	0.9	6/3/1965	10/5/2017	38.92925	-121.5254444
3042	USGS-385718121290401	TDS	FALSE	0.133	9	0.6	no trend	28.3	1.5	5/19/1965	5/20/2008	38.9548956	-121.4855142
3042	USGS-385718121290401	TDS	FALSE	0.133	9	0.6	no trend	28.3	1.5	5/19/1965	5/20/2008	38.9548956	-121.4855142
2857	USGS-385914121215801	TDS	FALSE	0.806	-2	-0.2	no trend	16.7	-0.24	9/7/1982	6/2/2008	38.9871178	-121.367178
2857	USGS-385914121215801	TDS	FALSE	0.806	-2	-0.2	no trend	16.7	-0.24	9/7/1982	6/2/2008	38.9871178	-121.367178

# Arsenic

Local_ID	Well_Info_ID	chemical	h	p	s	tau	trend	var_s	z	datemin	datemax	Latitude_NAD83	Longitude_NAD83
2083	11N06E17D001M	AS	TRUE	0.027	37	0.407	increasing	266.3	2.21	12/13/2005	3/26/2008	38.8064	-121.3353
2081	11N06E17D002M	AS	FALSE	0.205	-109	-0.133	no trend	7253.7	-1.27	12/13/2005	3/26/2008	38.8027	-121.3384
2080	11N06E17D003M	AS	TRUE	0.028	36	0.462	increasing	255.3	2.19	12/13/2005	3/26/2008	38.8059	-121.3358
2082	11N06E17E001M	AS	TRUE	0.003	53	0.582	increasing	301.7	2.99	12/13/2005	3/26/2008	38.8058	-121.3354
2065	3100077-003	AS	FALSE	0.806	-2	-0.2	no trend	16.7	-0.24	2/26/2004	7/10/2017	38.726602	-121.336563
2062	3100077-004	AS	FALSE	0.734	-2	-0.333	no trend	8.7	-0.34	2/26/2004	7/10/2017	38.726284	-121.336527
2059	3100538-001	AS	FALSE	1	0	0	no trend	16.7	0	8/19/1999	3/23/2018	38.7505	-121.321972
2060	3104508-001	AS	FALSE	0.47	3	0.5	no trend	7.7	0.72	2/19/2004	4/20/2017	38.729952	-121.321616
2069	3110008-003	AS	FALSE	0.211	6	0.286	no trend	16	1.25	10/26/1992	1/8/2010	38.753022	-121.279492
2071	3110008-006	AS	FALSE	0.61	5	0.179	no trend	61.7	0.51	10/26/1992	8/25/2016	38.736633	-121.277875
2066	3110008-007	AS	FALSE	0.507	6	0.214	no trend	56.7	0.66	10/26/1992	8/25/2016	38.726493	-121.258205
2050	3110008-008	AS	FALSE	0.452	-5	-0.333	no trend	28.3	-0.75	10/22/2002	8/23/2018	38.805938	-121.33588
2064	3110025-005	AS	FALSE	0.82	-7	-0.046	no trend	695	-0.23	7/26/1989	9/12/2019	38.818889	-121.31
2063	3110040-001	AS	FALSE	0.729	-8	-0.076	no trend	407.3	-0.35	9/27/1988	7/9/2002	38.75	-121.34722
2067	3110040-002	AS	FALSE	0.625	-9	-0.115	no trend	267.7	-0.49	8/31/1989	7/9/2002	38.75	-121.34444
145	3400173-002	AS	FALSE	0.089	6	1	no trend	8.7	1.7	5/24/2001	2/14/2017	38.640638	-121.483861
8	3400383-001	AS	FALSE	0.26	7	0.467	no trend	28.3	1.13	8/23/2001	7/24/2008	38.618983	-121.536935
60	3400456-001	AS	FALSE	0.402	39	0.12	no trend	2058.3	0.84	6/27/2013	9/18/2019	38.698055	-121.43
193	3410001-001	AS	FALSE	1	1	0.022	no trend	116.3	0	1/12/1993	9/5/2017	38.606839	-121.3982
242	3410001-002	AS	FALSE	0.105	-19	-0.422	no trend	123	-1.62	10/13/1995	7/18/2017	38.59783	-121.398024
258	3410001-004	AS	FALSE	1	-1	-0.036	no trend	64.3	0	1/12/1993	6/19/2014	38.611483	-121.410107
284	3410001-005	AS	FALSE	0.402	-9	-0.25	no trend	91	-0.84	2/25/1991	6/8/2011	38.623478	-121.396638
203	3410001-007	AS	FALSE	1	-1	-0.018	no trend	163	0	7/9/1990	9/27/2017	38.610999	-121.363391
128	3410001-009	AS	FALSE	0.242	-5	-0.333	no trend	11.7	-1.17	2/2/1993	12/15/2005	38.616331	-121.403703
212	3410001-010	AS	FALSE	0.754	-5	-0.091	no trend	163	-0.31	7/10/1990	9/12/2017	38.608099	-121.408153
158	3410001-011	AS	FALSE	0.876	-3	-0.055	no trend	163	-0.16	1/30/1992	9/14/2017	38.619863	-121.396184
228	3410001-012	AS	FALSE	0.752	-5	-0.091	no trend	160.3	-0.32	2/25/1991	12/12/2017	38.617662	-121.403695
82	3410001-013	AS	FALSE	1	-1	-0.018	no trend	148.3	0	1/28/1992	9/26/2017	38.598939	-121.370714
146	3410001-014	AS	FALSE	0.316	8	0.286	no trend	48.7	1	7/10/1990	6/27/2006	38.61171	-121.386048
260	3410001-015	AS	FALSE	0.934	2	0.036	no trend	147.3	0.08	11/1/1988	9/19/2017	38.59781	-121.381308
191	3410001-016	AS	FALSE	0.385	-10	-0.222	no trend	107.3	-0.87	2/22/1991	9/4/2014	38.631327	-121.37485
124	3410001-017	AS	FALSE	0.367	-11	-0.244	no trend	123	-0.9	1/30/1992	8/27/2014	38.61981	-121.403732
211	3410001-018	AS	FALSE	0.75	-5	-0.091	no trend	157.7	-0.32	2/22/1991	9/19/2017	38.623854	-121.374359
209	3410001-019	AS	FALSE	0.672	7	0.106	no trend	200.3	0.42	1/27/1992	9/25/2017	38.597831	-121.359623
114	3410001-020	AS	FALSE	1	1	0.018	no trend	156.3	0	1/27/1992	9/19/2017	38.618079	-121.359205
210	3410001-021	AS	FALSE	1	-1	-0.018	no trend	163	0	7/9/1990	9/12/2017	38.615256	-121.419986
161	3410001-022	AS	FALSE	0.419	-10	-0.222	no trend	124	-0.81	10/13/1995	9/11/2017	38.604549	-121.422274
222	3410001-025	AS	FALSE	0.636	-7	-0.127	no trend	160.3	-0.47	2/22/1991	9/19/2017	38.60046	-121.359118
148	3410001-026	AS	FALSE	0.308	4	0.667	no trend	8.7	1.02	7/10/1990	2/23/2005	38.627091	-121.384097
113	3410001-027	AS	FALSE	0.788	-4	-0.089	no trend	124	-0.27	1/30/1992	9/27/2017	38.605146	-121.390988
244	3410001-028	AS	FALSE	0.853	3	0.067	no trend	116.3	0.19	1/30/1992	8/21/2014	38.63562	-121.381097
227	3410001-029	AS	FALSE	0.522	9	0.164	no trend	156.3	0.64	1/30/1992	10/3/2017	38.630252	-121.397575
236	3410001-030	AS	FALSE	0.266	-13	-0.289	no trend	116.3	-1.11	1/29/1992	9/26/2017	38.617802	-121.424022
81	3410001-032	AS	FALSE	0.578	7	0.156	no trend	116.3	0.56	7/9/1990	9/19/2017	38.622918	-121.413817
104	3410001-033	AS	FALSE	0.395	-9	-0.25	no trend	88.3	-0.85	1/29/1992	7/10/2014	38.601378	-121.424
173	3410001-034	AS	FALSE	0.584	7	0.156	no trend	120.3	0.55	7/9/1990	9/11/2017	38.584674	-121.396539
169	3410001-035	AS	FALSE	0.856	-3	-0.067	no trend	121	-0.18	7/9/1990	9/28/2017	38.594464	-121.351844
19	3410001-038	AS	FALSE	0.461	-8	-0.222	no trend	90	-0.74	1/28/1992	6/9/2011	38.578371	-121.363395
20	3410001-039	AS	FALSE	0.834	-3	-0.083	no trend	91	-0.21	2/22/1991	6/20/2006	38.591742	-121.346413
168	3410001-042	AS	FALSE	0.696	-6	-0.109	no trend	164	-0.39	2/22/1991	9/12/2017	38.628014	-121.358648
184	3410001-051	AS	FALSE	0.936	2	0.036	no trend	156.7	0.08	7/9/1990	9/11/2017	38.636187	-121.375067
111	3410001-052	AS	FALSE	0.651	-6	-0.133	no trend	122	-0.45	7/9/1990	9/11/2017	38.625054	-121.362252
287	3410001-054	AS	FALSE	0.937	-2	-0.036	no trend	161.3	-0.08	2/11/1991	9/13/2017	38.582422	-121.408379
122	3410001-055	AS	FALSE	0.848	-3	-0.067	no trend	108.3	-0.19	11/1/1988	12/13/2017	38.594474	-121.39864
26	3410001-056	AS	FALSE	0.564	7	0.156	no trend	108.3	0.58	1/12/1993	9/13/2017	38.578749	-121.41096
3	3410001-061	AS	FALSE	0.979	-2	-0.008	no trend	1416	-0.03	5/7/1998	3/20/2018	38.582786	-121.338489
176	3410001-062	AS	FALSE	0.295	-11	-0.306	no trend	91	-1.05	8/22/2000	9/5/2017	38.618056	-121.401944
12	3410001-064	AS	FALSE	0.886	-2	-0.071	no trend	48.7	-0.14	4/23/2002	9/12/2017	38.584121	-121.353432
13	3410001-065	AS	FALSE	1	1	0.028	no trend	74.3	0	4/22/2002	9/21/2017	38.583196	-121.33679
4	3410001-066	AS	FALSE	0.378	-9	-0.25	no trend	82.3	-0.88	4/23/2002	9/12/2017	38.582214	-121.338203
2	3410001-067	AS	FALSE	0.466	-8	-0.222	no trend	92	-0.73	6/3/1999	10/1/2014	38.582481	-121.417169
225	3410001-069	AS	FALSE	0.578	9	0.136	no trend	207	0.56	2/26/1992	9/28/2017	38.580609	-121.384004
255	3410001-070	AS	FALSE	0.327	15	0.227	no trend	204.3	0.98	2/12/1991	9/12/2017	38.576006	-121.403088
205	3410001-071	AS	FALSE	0.23	-9	-0.429	no trend	44.3	-1.2	4/17/2002	9/14/2017	38.63056	-121.397787
106	3410001-072	AS	FALSE	0.19	7	0.25	no trend	21	1.31	4/17/2002	9/12/2017	38.61744	-121.411527
252	3410001-073	AS	FALSE	0.19	7	0.25	no trend	21	1.31	4/17/2002	9/7/2017	38.58058	-121.383962
58	3410001-076	AS	FALSE	0.949	2	0.026	no trend	244.7	0.06	6/5/1984	7/10/2019	38.644265	-121.362069
69	3410001-077	AS	FALSE	0.442	-15	-0.165	no trend	331.7	-0.77	3/7/1984	7/10/2019	38.631522	-121.352911
86	3410001-078	AS	FALSE	1	1	0.015	no trend	211.7	0	6/5/1984	7/9/2019	38.684818	-121.355931
259	3410001-079	AS	FALSE	0.797	-4	-0.073	no trend	136.7	-0.26	6/4/1984	7/24/2013	38.667577	-121.334161
110	3410001-080	AS	FALSE	0.956	-2	-0.022	no trend	328	-0.06	6/4/1984	7/17/2019	38.672567	-121.331573
174	3410001-081	AS	FALSE	0.699	-7	-0.09	no trend	240.3	-0.39	6/5/1984	7/22/2019	38.683333	-121.333333
71	3410001-082	AS	FALSE	1	-1	-0.008	no trend	279.7	0	6/4/1984	7/21/2016	38.648929	-121.338368
246	3410001-083	AS	FALSE	0.614	9	0.115	no trend	251	0.5	5/17/1984	7/9/2019	38.663692	-121.347786

239	3410001-085	AS	FALSE	0.881	-4	-0.038	no trend	402.7	-0.15	6/4/1984	7/17/2019	38.644208	-121.329841
49	3410001-087	AS	FALSE	0.868	-4	-0.044	no trend	328	-0.17	6/5/1984	7/11/2019	38.645858	-121.392317
218	3410001-088	AS	FALSE	0.712	-7	-0.09	no trend	265	-0.37	5/17/1984	7/11/2013	38.668746	-121.361
89	3410001-089	AS	FALSE	0.252	-24	-0.229	no trend	402.7	-1.15	3/7/1984	7/9/2019	38.653579	-121.379692
132	3410001-092	AS	FALSE	1	1	0.011	no trend	268.3	0	6/4/1984	7/20/2016	38.63889	-121.342759
185	3410001-094	AS	FALSE	0.52	11	0.121	no trend	241.7	0.64	5/17/1984	7/10/2019	38.652299	-121.354305
196	3410001-095	AS	FALSE	1	-1	-0.022	no trend	59.7	0	5/17/1984	6/21/2007	38.658062	-121.356402
297	3410001-096	AS	FALSE	0.298	-22	-0.21	no trend	407.3	-1.04	6/30/1988	7/9/2019	38.689669	-121.360198
102	3410001-097	AS	FALSE	0.07	-34	-0.374	no trend	330.7	-1.81	12/13/1984	7/11/2019	38.694158	-121.360024
256	3410001-098	AS	FALSE	0.659	9	0.075	no trend	328.3	0.44	5/9/1984	7/9/2019	38.700217	-121.351805
295	3410001-099	AS	FALSE	0.19	-7	-0.25	no trend	21	-1.31	10/20/1988	6/21/2007	38.655401	-121.313482
46	3410001-101	AS	FALSE	0.142	-12	-0.154	no trend	56	-1.47	10/27/1988	7/7/2016	38.663926	-121.32579
231	3410001-102	AS	FALSE	0.741	5	0.076	no trend	146.3	0.33	10/20/1988	7/15/2019	38.675049	-121.315501
101	3410001-103	AS	FALSE	0.175	-8	-0.222	no trend	26.7	-1.36	10/25/1988	11/13/2013	38.651225	-121.32298
163	3410001-104	AS	FALSE	0.573	-10	-0.128	no trend	255.3	-0.56	2/1/1993	7/10/2019	38.710442	-121.331662
180	3410001-105	AS	FALSE	0.755	-5	-0.076	no trend	163.7	-0.31	10/12/1995	7/10/2019	38.710528	-121.331667
262	3410001-106	AS	FALSE	0.799	-3	-0.107	no trend	61.7	-0.25	6/28/2001	7/8/2013	38.710517	-121.331659
85	3410001-107	AS	FALSE	0.701	5	0.111	no trend	108.3	0.38	11/4/1996	7/14/2016	38.709903	-121.357066
127	3410001-111	AS	FALSE	1	1	0.018	no trend	160.3	0	12/13/1995	7/11/2019	38.665363	-121.383099
254	3410001-127	AS	FALSE	0.433	11	0.2	no trend	163	0.78	12/13/1995	7/29/2013	38.712268	-121.381099
283	3410001-128	AS	FALSE	0.343	10	0.278	no trend	90	0.95	12/13/1995	6/17/2010	38.709783	-121.374669
149	3410001-129	AS	FALSE	0.582	-8	-0.145	no trend	161.3	-0.55	12/13/1995	7/29/2013	38.710651	-121.387666
118	3410001-133	AS	FALSE	1	1	0.015	no trend	209	0	2/25/1991	7/22/2019	38.682932	-121.376063
182	3410001-135	AS	FALSE	0.138	-17	-0.378	no trend	116.3	-1.48	2/5/1998	11/7/2016	38.68794	-121.385107
99	3410001-136	AS	FALSE	0.189	-17	-0.309	no trend	148.3	-1.31	2/25/1991	3/27/2018	38.685899	-121.372701
141	3410001-137	AS	FALSE	0.145	-17	-0.378	no trend	120.3	-1.46	2/25/1991	7/29/2013	38.692847	-121.379593
183	3410001-139	AS	FALSE	0.35	-13	-0.236	no trend	165	-0.93	5/17/1984	7/19/2016	38.69191	-121.364477
280	3410001-142	AS	FALSE	0.241	-16	-0.291	no trend	164	-1.17	7/20/1989	7/11/2016	38.686782	-121.392424
197	3410001-144	AS	FALSE	0.358	-16	-0.205	no trend	266.7	-0.92	2/25/1991	7/23/2019	38.69798	-121.373877
213	3410001-145	AS	FALSE	0.659	5	0.139	no trend	82.3	0.44	4/22/2002	7/10/2019	38.67526	-121.379573
315	3410002-001	AS	FALSE	0.936	-2	-0.036	no trend	155.3	-0.08	2/20/1991	2/8/2017	38.583333	-121.383333
117	3410002-002	AS	FALSE	0.799	-3	-0.107	no trend	61.7	-0.25	7/17/1990	2/8/2017	38.583333	-121.366667
28	3410002-007	AS	FALSE	0.212	-11	-0.393	no trend	64.3	-1.25	7/17/1990	2/14/2017	38.566667	-121.4
10	3410002-012	AS	FALSE	0.368	-7	-0.333	no trend	44.3	-0.9	7/17/1990	5/8/2017	38.566667	-121.416667
17	3410002-013	AS	FALSE	0.902	2	0.071	no trend	65.3	0.12	7/17/1990	2/14/2017	38.583333	-121.416667
249	3410002-014	AS	FALSE	0.799	-3	-0.107	no trend	61.7	-0.25	1/19/1993	5/8/2017	38.583333	-121.366667
152	3410003-001	AS	FALSE	1	1	0.013	no trend	265	0	9/5/1990	2/6/2019	38.587545	-121.385145
153	3410003-002	AS	FALSE	0.813	-4	-0.073	no trend	161.3	-0.24	4/11/1986	2/28/2017	38.582537	-121.383219
245	3410003-004	AS	FALSE	0.734	-2	-0.333	no trend	8.7	-0.34	9/19/1990	1/25/2005	38.587611	-121.392074
162	3410003-005	AS	FALSE	0.592	-7	-0.156	no trend	125	-0.54	4/2/1987	7/11/2017	38.591017	-121.384139
251	3410003-006	AS	FALSE	0.348	10	0.278	no trend	92	0.94	4/2/1987	2/28/2017	38.59211	-121.387633
238	3410003-008	AS	FALSE	0.788	-4	-0.089	no trend	124	-0.27	4/2/1987	2/28/2017	38.600074	-121.391973
74	3410004-001	AS	FALSE	1	1	0.022	no trend	106.3	0	10/24/1995	2/3/2004	38.645432	-121.313067
83	3410004-004	AS	FALSE	0.257	20	0.19	no trend	281.3	1.13	2/19/1991	1/28/2010	38.64988	-121.30798
175	3410004-005	AS	FALSE	0.242	-5	-0.333	no trend	11.7	-1.17	3/1/1991	10/4/2001	38.633333	-121.35
172	3410004-006	AS	FALSE	0.158	-49	-0.194	no trend	1157.7	-1.41	8/1/1990	6/1/2017	38.622744	-121.335704
6	3410004-007	AS	FALSE	1	-1	-0.018	no trend	73	0	8/1/1990	10/23/2002	38.594673	-121.334606
150	3410004-009	AS	FALSE	0.832	-8	-0.032	no trend	1092.7	-0.21	2/19/1991	6/1/2017	38.619652	-121.333354
261	3410004-016	AS	FALSE	0.151	55	0.199	no trend	1411.7	1.44	5/8/1987	6/1/2017	38.645576	-121.306819
248	3410004-020	AS	FALSE	0.585	7	0.077	no trend	121	0.55	4/25/2002	6/1/2017	38.641845	-121.315446
139	3410004-021	AS	FALSE	0.373	-14	-0.212	no trend	212.7	-0.89	4/23/2002	6/1/2017	38.604804	-121.342252
290	3410006-001	AS	FALSE	1	-1	-0.036	no trend	37	0	12/20/1990	5/30/2019	38.661305	-121.292607
198	3410006-008	AS	FALSE	0.242	-5	-0.333	no trend	11.7	-1.17	12/6/1990	2/20/2013	38.679425	-121.289154
98	3410006-010	AS	FALSE	0.308	4	0.667	no trend	8.7	1.02	10/21/2004	6/6/2018	38.698638	-121.269673
130	3410007-001	AS	FALSE	0.221	-6	-0.6	no trend	16.7	-1.22	4/10/1992	6/24/2010	38.613787	-121.367811
229	3410007-002	AS	FALSE	0.133	-9	-0.6	no trend	28.3	-1.5	10/2/1995	8/18/2016	38.613607	-121.371676
216	3410007-003	AS	FALSE	0.368	-7	-0.333	no trend	44.3	-0.9	2/19/1991	8/22/2016	38.606352	-121.369707
269	3410007-004	AS	FALSE	0.707	3	0.2	no trend	28.3	0.38	10/2/1995	8/17/2016	38.607768	-121.374083
77	3410007-005	AS	FALSE	0.133	-9	-0.6	no trend	28.3	-1.5	10/2/1995	8/18/2016	38.61458	-121.378552
142	3410007-006	AS	FALSE	0.308	-4	-0.667	no trend	8.7	-1.02	10/2/1995	6/28/2010	38.60731	-121.364767
195	3410007-007	AS	FALSE	0.707	-3	-0.2	no trend	28.3	-0.38	10/2/1995	6/21/2018	38.606531	-121.380719
253	3410007-008	AS	FALSE	0.707	3	0.2	no trend	28.3	0.38	1/26/1993	8/16/2016	38.613172	-121.380739
166	3410009-001	AS	FALSE	0.211	-6	-0.286	no trend	16	-1.25	1/28/1993	6/26/2003	38.643048	-121.268528
105	3410009-004	AS	FALSE	0.857	-3	-0.067	no trend	123	-0.18	8/2/1990	6/6/2006	38.651282	-121.255173
78	3410009-005	AS	FALSE	0.19	-7	-0.25	no trend	21	-1.31	2/28/1991	6/26/2003	38.650805	-121.286999
201	3410009-006	AS	FALSE	0.524	8	0.121	no trend	120.7	0.64	2/28/1991	5/10/2012	38.642768	-121.278261
234	3410009-007	AS	FALSE	0.155	-10	-0.182	no trend	40	-1.42	7/19/1989	5/10/2012	38.651297	-121.296666
217	3410009-008	AS	TRUE	0.012	24	0.667	increasing	83.3	2.52	8/16/1990	6/6/2006	38.662066	-121.265396
164	3410009-010	AS	FALSE	0.141	22	0.282	no trend	203.3	1.47	11/7/1991	3/28/2019	38.659628	-121.25556
93	3410013-001	AS	FALSE	0.838	-3	-0.067	no trend	95.7	-0.2	10/7/1992	8/13/2018	38.694922	-121.332628
159	3410013-002	AS	FALSE	0.524	-8	-0.145	no trend	120.7	-0.64	2/18/1992	8/13/2018	38.69054	-121.34151
51	3410013-003	AS	FALSE	0.239	14	0.311	no trend	122	1.18	11/2/1988	8/16/2018	38.683982	-121.31348
240	3410013-004	AS	FALSE	0.265	15	0.273	no trend	157.7	1.11	7/2/1990	8/7/2018	38.699328	-121.295627
178	3410013-005	AS	TRUE	0.043	26	0.473	increasing	152.7	2.02	7/2/1990	8/7/2018	38.669042	-121.293798
63	3410013-006	AS	FALSE	0.132	20	0.364	no trend	159.3	1.51	2/11/1992	8/8/2018	38.685052	-121.305855

156	3410013-007	AS	FALSE	0.081	10	0.476	no trend	26.7	1.74	7/2/1990	8/19/2015	38.691478	-121.336784
270	3410013-008	AS	FALSE	0.235	16	0.291	no trend	159.3	1.19	2/13/1991	8/16/2018	38.673506	-121.340002
224	3410013-009	AS	FALSE	0.363	11	0.244	no trend	121	0.91	2/11/1992	8/7/2018	38.695662	-121.29509
92	3410013-010	AS	FALSE	0.235	16	0.291	no trend	159.3	1.19	2/11/1992	8/15/2018	38.670117	-121.341406
237	3410013-012	AS	FALSE	0.068	27	0.409	no trend	203	1.82	7/2/1990	8/13/2018	38.66565	-121.302524
223	3410013-013	AS	FALSE	0.306	-12	-0.267	no trend	115.3	-1.02	2/12/1991	8/13/2018	38.678824	-121.304628
144	3410013-014	AS	FALSE	0.239	14	0.311	no trend	122	1.18	2/12/1991	8/8/2018	38.668822	-121.304482
112	3410013-015	AS	FALSE	0.772	4	0.089	no trend	107.3	0.29	2/18/1992	8/6/2018	38.70124	-121.345319
233	3410013-016	AS	FALSE	0.466	10	0.182	no trend	152.7	0.73	2/11/1993	8/13/2018	38.709473	-121.329244
265	3410013-017	AS	FALSE	0.119	9	0.6	no trend	26.3	1.56	2/11/1992	8/24/2006	38.712243	-121.303547
247	3410013-019	AS	FALSE	0.098	21	0.382	no trend	146.3	1.65	7/2/1990	8/6/2018	38.700287	-121.330955
226	3410013-020	AS	FALSE	0.558	3	0.2	no trend	11.7	0.59	2/12/1991	8/24/2006	38.716217	-121.294262
88	3410013-021	AS	FALSE	0.28	14	0.255	no trend	144.7	1.08	2/13/1991	8/8/2018	38.683333	-121.35
232	3410013-022	AS	FALSE	0.319	9	0.321	no trend	64.3	1	2/18/1992	9/11/2012	38.7124	-121.306829
189	3410013-023	AS	TRUE	0.006	-28	-0.622	decreasing	96.7	-2.75	2/11/1992	8/7/2018	38.695536	-121.313454
66	3410013-024	AS	FALSE	0.636	7	0.127	no trend	161	0.47	2/11/1992	8/7/2018	38.680539	-121.31067
220	3410013-025	AS	FALSE	0.888	-3	-0.045	no trend	201	-0.14	2/18/1992	8/13/2018	38.718426	-121.313299
188	3410013-026	AS	FALSE	0.186	17	0.309	no trend	146.3	1.32	7/2/1990	8/6/2018	38.701667	-121.344722
119	3410013-027	AS	FALSE	0.098	22	0.4	no trend	161.3	1.65	2/18/1992	9/18/2012	38.709413	-121.317252
165	3410013-028	AS	FALSE	0.211	-6	-0.286	no trend	16	-1.25	4/21/1997	8/13/2018	38.698857	-121.32618
125	3410016-001	AS	FALSE	1	1	0.167	no trend	7.7	0	1/28/1993	12/3/2007	38.686538	-121.219546
147	3410016-002	AS	FALSE	0.806	-2	-0.2	no trend	16.7	-0.24	4/18/1991	1/17/2013	38.694541	-121.210813
126	3410018-005	AS	FALSE	0.089	-6	-1	no trend	8.7	-1.7	2/28/1991	3/5/2002	38.721801	-121.46774
24	3410020-015	AS	FALSE	0.902	2	0.071	no trend	65.3	0.12	1/17/1992	4/3/2017	38.6125	-121.479167
11	3410020-016	AS	FALSE	0.536	6	0.214	no trend	65.3	0.62	1/17/1992	1/20/2015	38.616667	-121.479167
293	3410020-017	AS	FALSE	1	0	0	no trend	164	0	11/18/1988	8/24/2017	38.62266	-121.477813
84	3410020-018	AS	FALSE	0.858	-3	-0.067	no trend	125	-0.18	1/17/1992	5/8/2017	38.627831	-121.477227
292	3410020-021	AS	FALSE	0.566	4	0.267	no trend	27.3	0.57	1/21/1992	10/12/2011	38.607083	-121.454779
97	3410020-022	AS	FALSE	0.419	-10	-0.222	no trend	124	-0.81	11/18/1988	3/20/2017	38.607305	-121.443097
136	3410020-023	AS	FALSE	0.799	-3	-0.107	no trend	61.7	-0.25	1/21/1992	3/7/2017	38.604956	-121.439486
314	3410020-024	AS	FALSE	0.718	-5	-0.111	no trend	123	-0.36	11/18/1988	10/10/2011	38.612801	-121.450505
129	3410020-025	AS	FALSE	1	-1	-0.1	no trend	13	0	1/21/1992	10/9/2008	38.612294	-121.440456
215	3410020-027	AS	FALSE	0.578	-7	-0.156	no trend	116.3	-0.56	1/22/1992	5/8/2017	38.620988	-121.443553
279	3410020-028	AS	FALSE	0.37	-14	-0.212	no trend	210.7	-0.9	11/18/1988	5/8/2017	38.62044	-121.432285
108	3410020-029	AS	FALSE	0.428	17	0.162	no trend	408.3	0.79	1/17/1992	10/8/2018	38.618056	-121.468056
107	3410020-030	AS	FALSE	0.602	-6	-0.167	no trend	92	-0.52	1/17/1992	5/8/2017	38.625119	-121.462605
59	3410020-032	AS	FALSE	0.696	-6	-0.109	no trend	164	-0.39	1/16/1991	8/24/2017	38.628503	-121.43627
55	3410020-033	AS	FALSE	1	1	0.028	no trend	82.3	0	11/16/1988	10/10/2011	38.626808	-121.42959
171	3410020-034	AS	FALSE	0.696	-6	-0.109	no trend	164	-0.39	1/16/1991	2/27/2018	38.638412	-121.446721
73	3410020-035	AS	FALSE	1	1	0.018	no trend	163	0	1/16/1991	2/27/2018	38.639934	-121.427293
133	3410020-037	AS	FALSE	0.938	-2	-0.036	no trend	164	-0.08	1/16/1991	5/8/2017	38.651207	-121.469509
264	3410020-038	AS	FALSE	0.638	-7	-0.127	no trend	163	-0.47	1/16/1991	5/8/2017	38.647475	-121.459256
50	3410020-039	AS	FALSE	0.806	-2	-0.2	no trend	16.7	-0.24	1/22/1992	10/8/2003	38.627595	-121.432917
56	3410020-040	AS	FALSE	0.585	8	0.145	no trend	164	0.55	10/22/1990	5/9/2017	38.629597	-121.420726
278	3410020-041	AS	FALSE	0.271	-17	-0.258	no trend	211.7	-1.1	1/16/1991	5/9/2017	38.641387	-121.435795
22	3410020-042	AS	FALSE	0.902	2	0.071	no trend	65.3	0.12	1/21/1992	3/7/2017	38.596923	-121.458973
294	3410020-044	AS	FALSE	0.799	3	0.107	no trend	61.7	0.25	10/16/1990	10/10/2011	38.613996	-121.456155
194	3410020-045	AS	FALSE	0.815	-4	-0.073	no trend	164	-0.23	10/19/1990	5/9/2017	38.622276	-121.446858
134	3410020-046	AS	FALSE	0.834	3	0.083	no trend	91	0.21	1/22/1992	9/22/2014	38.623116	-121.427024
157	3410020-050	AS	FALSE	0.474	9	0.2	no trend	125	0.72	1/16/1991	3/25/2014	38.668053	-121.438012
42	3410020-051	AS	FALSE	0.81	-4	-0.073	no trend	155.3	-0.24	1/16/1991	2/27/2018	38.634413	-121.412516
296	3410020-052	AS	FALSE	0.283	13	0.289	no trend	125	1.07	3/8/1993	5/9/2017	38.599341	-121.445804
214	3410020-054	AS	FALSE	0.533	9	0.164	no trend	165	0.62	1/21/1992	8/24/2017	38.596324	-121.427308
33	3410020-055	AS	FALSE	0.537	-10	-0.152	no trend	212.7	-0.62	1/17/1992	5/9/2017	38.617636	-121.469304
91	3410020-056	AS	TRUE	0.012	29	0.644	increasing	125	2.5	1/12/1994	5/9/2017	38.654657	-121.448564
291	3410020-057	AS	FALSE	0.651	16	0.076	no trend	1096.7	0.45	1/18/1995	12/19/2018	38.658482	-121.466415
30	3410026-001	AS	FALSE	0.734	-2	-0.333	no trend	8.7	-0.34	2/21/1991	5/31/2012	38.58961	-121.429343
7	3410026-002	AS	FALSE	0.806	2	0.2	no trend	16.7	0.24	2/21/1991	5/3/2018	38.588266	-121.423478
31	3410026-003	AS	FALSE	1	0	0	no trend	16.7	0	2/21/1991	5/3/2018	38.593617	-121.439154
18	3410026-004	AS	FALSE	0.806	-2	-0.2	no trend	16.7	-0.24	2/21/1991	5/3/2018	38.593339	-121.432431
206	3410031-001	AS	FALSE	1	-1	-0.018	no trend	160.3	0	3/24/1988	5/16/2019	38.720833	-121.358333
190	3410031-002	AS	FALSE	0.711	-5	-0.111	no trend	116.3	-0.37	9/10/1993	8/8/2018	38.717222	-121.3575
94	3410031-003	AS	TRUE	0.008	-30	-0.545	decreasing	120.7	-2.64	2/12/1991	8/14/2018	38.7	-121.383333
221	3410031-004	AS	FALSE	0.453	-16	-0.152	no trend	398.7	-0.75	10/29/1987	8/14/2018	38.718056	-121.382222
61	3410031-005	AS	FALSE	0.442	-9	-0.2	no trend	108.3	-0.77	2/26/1992	8/5/2015	38.716667	-121.4
160	3410031-006	AS	TRUE	0.021	-31	-0.47	decreasing	168.3	-2.31	11/2/1988	8/14/2018	38.708333	-121.383611
2073	3410031-007	AS	TRUE	0.001	41	0.745	increasing	148.3	3.28	2/12/1991	8/9/2018	38.733333	-121.35
2056	3410031-008	AS	FALSE	0.235	-16	-0.291	no trend	159.3	-1.19	10/7/1992	8/9/2018	38.733333	-121.35
208	3410031-009	AS	FALSE	0.611	6	0.133	no trend	96.7	0.51	1/15/1992	8/7/2018	38.715278	-121.378056
72	3410031-010	AS	FALSE	0.667	5	0.139	no trend	86.3	0.43	8/29/1995	8/7/2018	38.705	-121.365556
289	3410031-011	AS	FALSE	1	1	0.008	no trend	483.7	0	6/21/1990	8/7/2018	38.726944	-121.3825
135	3410031-012	AS	FALSE	0.203	11	0.393	no trend	61.7	1.27	6/12/1992	8/7/2018	38.721111	-121.368611
45	3410031-013	AS	FALSE	0.651	-6	-0.133	no trend	122	-0.45	2/25/1992	8/14/2018	38.711667	-121.413889
54	3410031-014	AS	FALSE	0.631	-7	-0.127	no trend	156.3	-0.48	4/15/1987	8/14/2018	38.716111	-121.408889
95	3410031-015	AS	FALSE	0.308	-4	-0.667	no trend	8.7	-1.02	2/11/1993	8/14/2018	38.716667	-121.416667

241	3410031-016	AS	TRUE	0.047	-19	-0.528	decreasing	82.3	-1.98	7/16/1996	8/8/2018	38.724444	-121.336111
80	3410031-017	AS	FALSE	0.521	-6	-0.214	no trend	60.7	-0.64	4/30/1998	8/8/2018	38.723056	-121.349722
257	3410031-018	AS	FALSE	0.854	-3	-0.067	no trend	118.3	-0.18	1/9/1996	8/7/2018	38.716389	-121.371944
288	3410045-001	AS	FALSE	0.43	-11	-0.2	no trend	160.3	-0.79	2/25/1992	8/7/2018	38.586137	-121.411513
138	3410045-002	AS	FALSE	0.113	18	0.4	no trend	115.3	1.58	2/25/1992	8/7/2018	38.583085	-121.413054
116	3410045-003	AS	FALSE	0.711	5	0.111	no trend	116.3	0.37	1/21/1993	8/7/2018	38.594423	-121.417465
243	3410045-004	AS	FALSE	0.175	14	0.389	no trend	92	1.36	7/3/1990	7/12/2012	38.592566	-121.407256
96	3410045-005	AS	FALSE	0.636	7	0.127	no trend	160.3	0.47	2/12/1991	8/7/2018	38.600025	-121.410183
2074	3910005-049	AS	FALSE	0.602	-6	-0.167	no trend	92	-0.52	6/9/2009	6/12/2018	38.8271	-121.232
2908	5100136-002	AS	FALSE	0.221	6	0.6	no trend	16.7	1.22	3/12/2003	4/11/2018	38.911927	-121.526004
2901	5100138-001	AS	FALSE	0.764	3	0.143	no trend	44.3	0.3	2/11/1991	1/3/2017	38.947299	-121.524183
2902	5100140-001	AS	FALSE	0.537	-16	-0.118	no trend	589.3	-0.62	2/11/1991	5/19/2010	38.911233	-121.542832
2900	5100143-001	AS	FALSE	0.734	-2	-0.333	no trend	8.7	-0.34	2/11/1991	5/18/2005	38.823397	-121.503832
2905	5100143-002	AS	FALSE	0.451	-12	-0.182	no trend	212.7	-0.75	9/21/2005	8/21/2019	38.823303	-121.503779
2904	5100153-002	AS	FALSE	0.051	262	0.183	no trend	17963	1.95	3/8/2005	7/7/2019	38.772313	-121.525061
2907	5105004-001	AS	FALSE	0.063	-16	-0.571	no trend	65.3	-1.86	11/29/2000	5/17/2017	38.777769	-121.52437
2909	5105013-001	AS	FALSE	0.38	17	0.187	no trend	331.7	0.88	2/29/2016	7/7/2019	38.781319	-121.484797
1859	USGS-383746121291101	AS	FALSE	0.711	-4	-0.143	no trend	65.3	-0.37	8/4/1998	8/8/2017	38.6292139	-121.4877028
1860	USGS-384145121184101	AS	FALSE	0.368	7	0.333	no trend	44.3	0.9	8/17/1998	9/4/2012	38.6964	-121.3120389
1868	USGS-384330121293901	AS	FALSE	1	1	0.048	no trend	44.3	0	8/11/1997	7/10/2017	38.7251167	-121.4954417
2806	USGS-384413121163801	AS	FALSE	0.308	4	0.667	no trend	8.7	1.02	9/24/1982	3/10/2014	38.7369444	-121.277222

# **Nitrate as Nitrogen**



Local_ID	Well_Info_ID	chemical	h	p	s	tau	trend	var_s	z	datemin	datemax	Latitude_NAD83	Longitude_NAD83
2934	11N03E24D001M	NO3N	FALSE	0.308	-4	-0.667	no trend	8.7	-1.02	7/21/1964	8/18/2004	38.7906	-121.5973
2940	11N04E04R002M	NO3N	FALSE	0.089	-6	-1	no trend	8.7	-1.7	5/2/1968	8/24/2005	38.8255	-121.5259
2083	11N06E17D001M	NO3N	TRUE	0	567	0.368	increasing	20007.7	4	5/5/2004	3/26/2008	38.8064	-121.3353
2081	11N06E17D002M	NO3N	FALSE	0.301	-137	-0.092	no trend	17276.3	-1.03	5/6/2004	3/26/2008	38.8027	-121.3384
2080	11N06E17D003M	NO3N	FALSE	0.099	175	0.169	no trend	11151	1.65	5/5/2004	3/26/2008	38.8059	-121.3358
2082	11N06E17E001M	NO3N	TRUE	0	515	0.334	increasing	20015	3.63	5/5/2004	3/26/2008	38.8058	-121.3354
2953	12N03E26R001M	NO3N	FALSE	0.308	-4	-0.667	no trend	8.7	-1.02	6/13/1963	8/18/2004	38.8533	-121.5991
2967	12N04E05R005M	NO3N	FALSE	1	0	0	no trend	8.7	0	8/25/1970	8/18/2004	38.9114	-121.5447
2065	3100077-003	NO3N	FALSE	0.074	-21	-0.467	no trend	125	-1.79	2/26/2004	7/10/2017	38.726602	-121.336563
2062	3100077-004	NO3N	TRUE	0.029	-22	-0.611	decreasing	92	-2.19	2/26/2004	7/10/2017	38.726284	-121.336527
2059	3100538-001	NO3N	FALSE	0.065	42	0.35	no trend	493.3	1.85	3/18/2004	6/12/2019	38.7505	-121.321972
2060	3104508-001	NO3N	FALSE	0.098	-52	-0.274	no trend	950	-1.65	7/17/2003	3/21/2019	38.729952	-121.321616
2077	3105886-001	NO3N	FALSE	0.086	26	0.394	no trend	212.7	1.71	6/21/2007	3/21/2019	38.728166	-121.366194
2057	3110004-002	NO3N	TRUE	0.034	76	0.329	increasing	1254.7	2.12	4/24/2001	2/26/2019	38.868006	-121.320358
2068	3110004-003	NO3N	FALSE	0.156	51	0.221	no trend	1244.3	1.42	12/30/2002	2/26/2019	38.86973	-121.330213
2070	3110004-007	NO3N	FALSE	0.308	4	0.667	no trend	8.7	1.02	4/24/2001	2/26/2019	38.901373	-121.351602
2061	3110004-011	NO3N	FALSE	0.432	20	0.147	no trend	585.3	0.79	12/7/2005	3/1/2018	38.865086	-121.347261
2072	3110004-012	NO3N	FALSE	0.075	37	0.352	no trend	408.3	1.78	6/14/2005	2/26/2019	38.867769	-121.338461
2069	3110008-003	NO3N	FALSE	0.347	13	0.236	no trend	163	0.94	10/26/1992	1/8/2010	38.753022	-121.279492
2071	3110008-006	NO3N	FALSE	0.398	-18	-0.171	no trend	405.3	-0.84	10/27/1992	8/23/2018	38.736633	-121.277875
2066	3110008-007	NO3N	TRUE	0.003	-55	-0.604	decreasing	333.7	-2.96	10/26/1992	8/23/2018	38.726493	-121.258205
2050	3110008-008	NO3N	FALSE	1	-1	-0.048	no trend	44.3	0	8/24/2004	8/23/2018	38.805938	-121.335588
2051	3110008-015	NO3N	FALSE	0.086	8	0.8	no trend	16.7	1.71	1/8/2010	8/23/2018	38.785813	-121.332225
2064	3110025-005	NO3N	TRUE	0.031	53	0.39	increasing	581	2.16	7/26/1989	9/12/2019	38.818889	-121.31
2063	3110040-001	NO3N	FALSE	0.351	18	0.198	no trend	332.7	0.93	9/27/1988	7/9/2002	38.75	-121.34722
2067	3110040-002	NO3N	FALSE	0.193	20	0.303	no trend	212.7	1.3	8/31/1989	7/9/2002	38.75	-121.34444
2054	3110048-001	NO3N	FALSE	0.324	-19	-0.209	no trend	333.7	-0.99	4/21/2004	7/18/2019	38.983062	-121.375659
2058	3110048-002	NO3N	FALSE	0.087	-23	-0.418	no trend	165	-1.71	4/21/2004	4/9/2018	38.980075	-121.369185
40	3400117-001	NO3N	FALSE	1	-1	-0.013	no trend	103.7	0	2/14/2005	8/12/2019	38.602797	-121.50572
15	3400123-001	NO3N	TRUE	0.049	-31	-0.341	decreasing	233	-1.97	2/3/2005	5/6/2019	38.672825	-121.623796
38	3400131-001	NO3N	FALSE	1	1	0.167	no trend	7.7	0	6/15/1995	11/28/2018	38.671667	-121.611111
145	3400173-002	NO3N	FALSE	0.381	-26	-0.152	no trend	813.3	-0.88	7/26/2001	2/4/2019	38.640638	-121.483861
235	3400173-003	NO3N	FALSE	0.537	16	0.118	no trend	589.3	0.62	10/25/2001	2/4/2019	38.654819	-121.477561
316	3400173-004	NO3N	FALSE	0.118	16	0.444	no trend	92	1.56	4/6/2009	2/4/2019	38.643894	-121.493168
167	3400173-005	NO3N	FALSE	0.171	-37	-0.242	no trend	692.3	-1.37	7/26/2001	2/15/2017	38.646271	-121.502342
79	3400179-001	NO3N	FALSE	0.599	16	0.094	no trend	813.3	0.53	8/17/2001	3/20/2019	38.6575	-121.378333
199	3400179-002	NO3N	FALSE	0.734	-2	-0.333	no trend	8.7	-0.34	4/28/2008	3/20/2019	38.658333	-121.380555
57	3400190-001	NO3N	FALSE	0.195	47	0.203	no trend	1257.7	1.3	10/2/2001	3/20/2019	38.675861	-121.326329
272	3400191-001	NO3N	TRUE	0.019	84	0.364	increasing	1256.7	2.34	8/17/2001	3/20/2019	38.65525	-121.379888
285	3400191-002	NO3N	FALSE	0.118	16	0.444	no trend	92	1.56	7/30/2009	3/20/2019	38.685618	-121.361651
121	3400191-003	NO3N	FALSE	1	0	0	no trend	92	0	7/30/2009	3/20/2019	38.656327	-121.378432
36	3400226-001	NO3N	FALSE	0.939	3	0.02	no trend	681	0.08	7/6/2000	3/20/2019	38.605089	-121.522873
44	3400278-001	NO3N	FALSE	0.869	-4	-0.044	no trend	330.7	-0.16	7/10/2000	12/18/2018	38.648694	-121.346694
43	3400278-002	NO3N	FALSE	0.631	8	0.121	no trend	212.7	0.48	8/22/2001	6/22/2017	38.650597	-121.344144
67	3400283-001	NO3N	FALSE	0.371	11	0.244	no trend	125	0.89	8/12/2009	4/30/2018	38.648694	-121.346694
302	3400284-001	NO3N	TRUE	0.023	-34	-0.515	decreasing	210.7	-2.27	3/15/2001	4/16/2008	38.692607	-121.323444
48	3400347-001	NO3N	FALSE	0.178	-16	-0.356	no trend	124	-1.35	7/17/2003	6/24/2010	38.684099	-121.322031
65	3400356-001	NO3N	FALSE	0.396	25	0.146	no trend	798.3	0.85	7/12/2000	5/13/2019	38.684099	-121.322031
8	3400383-001	NO3N	FALSE	0.429	-34	-0.113	no trend	1741.3	-0.79	7/20/2000	3/20/2019	38.618983	-121.536935
39	3400396-001	NO3N	FALSE	0.062	-46	-0.338	no trend	580.7	-1.87	9/5/2002	3/20/2019	38.697778	-121.616944
23	3400406-001	NO3N	FALSE	0.175	-77	-0.177	no trend	3133	-1.36	8/7/2001	3/20/2019	38.619087	-121.53506
60	3400456-001	NO3N	FALSE	0.284	-34	-0.179	no trend	950	-1.07	6/20/2012	8/15/2019	38.698055	-121.43
309	3400459-001	NO3N	TRUE	0.011	-91	-0.394	decreasing	1257.7	-2.54	2/18/2010	8/2/2019	38.576666	-121.401666
193	3410001-001	NO3N	TRUE	0.014	112	0.345	increasing	2057.3	2.45	1/12/1993	7/15/2019	38.606839	-121.3982
242	3410001-002	NO3N	TRUE	0.037	80	0.316	increasing	1432.7	2.09	1/25/1995	7/15/2019	38.59783	-121.398024
258	3410001-004	NO3N	FALSE	0.739	12	0.057	no trend	1090	0.33	1/12/1993	8/10/2015	38.611483	-121.410107
284	3410001-005	NO3N	FALSE	0.107	47	0.275	no trend	812.3	1.61	2/25/1991	7/30/2013	38.623478	-121.396638
203	3410001-007	NO3N	TRUE	0.008	129	0.368	increasing	2299	2.67	7/9/1990	9/16/2019	38.610999	-121.363391
128	3410001-009	NO3N	FALSE	0.807	-5	-0.064	no trend	267.7	-0.24	2/2/1993	1/23/2006	38.616331	-121.403703
212	3410001-010	NO3N	FALSE	0.118	72	0.222	no trend	2057.3	1.57	7/10/1990	6/13/2018	38.608099	-121.408153
158	3410001-011	NO3N	FALSE	0.127	66	0.22	no trend	1814	1.53	1/30/1992	7/30/2019	38.619863	-121.396184
228	3410001-012	NO3N	FALSE	0.174	154	0.137	no trend	12656.7	1.36	2/25/1991	4/10/2018	38.617662	-121.403695
82	3410001-013	NO3N	FALSE	0.409	-34	-0.123	no trend	1596	-0.83	1/28/1992	7/11/2019	38.598939	-121.370714
146	3410001-014	NO3N	FALSE	0.24	27	0.225	no trend	490.3	1.17	7/10/1990	3/12/2009	38.61171	-121.386048
260	3410001-015	NO3N	TRUE	0.002	136	0.453	increasing	1831.3	3.15	11/1/1988	7/11/2019	38.59781	-121.381308
191	3410001-016	NO3N	FALSE	0.428	-29	-0.126	no trend	1249	-0.79	2/22/1991	7/12/2016	38.631327	-121.37485
124	3410001-017	NO3N	FALSE	0.865	7	0.03	no trend	1253	0.17	1/30/1992	2/8/2016	38.61981	-121.403732
211	3410001-018	NO3N	FALSE	0.972	7	0.003	no trend	29784.3	0.03	2/22/1991	7/11/2019	38.623854	-121.374359
209	3410001-019	NO3N	FALSE	0.366	42	0.129	no trend	2057.3	0.9	1/27/1992	7/11/2019	38.597831	-121.359623
114	3410001-020	NO3N	TRUE	0.037	236	0.209	increasing	12656.7	2.09	1/27/1992	7/10/2019	38.618079	-121.359205

210	3410001-021	NO3N	TRUE	0.026	102	0.314	increasing	2048.7	2.23	7/9/1990	7/29/2019	38.615256	-121.419986
161	3410001-022	NO3N	FALSE	0.636	20	0.072	no trend	1614.7	0.47	1/26/1995	7/25/2019	38.604549	-121.42274
123	3410001-023	NO3N	FALSE	0.764	-3	-0.143	no trend	44.3	-0.3	4/13/1987	5/16/2000	38.614722	-121.349444
64	3410001-024	NO3N	FALSE	0.707	3	0.2	no trend	28.3	0.38	1/27/1992	2/19/2001	38.641255	-121.370271
222	3410001-025	NO3N	TRUE	0.027	101	0.311	increasing	2053.7	2.21	2/22/1991	7/26/2018	38.60046	-121.359118
148	3410001-026	NO3N	FALSE	0.185	19	0.288	no trend	184.3	1.33	7/10/1990	2/23/2005	38.627091	-121.384097
113	3410001-027	NO3N	TRUE	0.032	87	0.315	increasing	1607.7	2.14	1/30/1992	7/17/2018	38.605146	-121.390988
244	3410001-028	NO3N	TRUE	0.027	74	0.352	increasing	1088	2.21	1/30/1992	8/21/2014	38.63562	-121.381097
227	3410001-029	NO3N	TRUE	0.048	71	0.307	increasing	1249	1.98	1/30/1992	10/3/2017	38.630252	-121.397575
236	3410001-030	NO3N	TRUE	0.009	81	0.426	increasing	944.3	2.6	1/29/1992	7/9/2018	38.617802	-121.424022
170	3410001-031	NO3N	FALSE	0.548	5	0.238	no trend	44.3	0.6	1/28/1992	11/20/2007	38.61919	-121.371454
81	3410001-032	NO3N	FALSE	0.139	50	0.238	no trend	1094.7	1.48	7/9/1990	7/9/2018	38.622918	-121.413817
104	3410001-033	NO3N	FALSE	0.113	46	0.269	no trend	807.3	1.58	1/29/1992	7/10/2014	38.601378	-121.424
173	3410001-034	NO3N	TRUE	0	-1179	-0.449	decreasing	43973	-5.62	7/9/1990	7/16/2019	38.584674	-121.396539
169	3410001-035	NO3N	FALSE	0.441	32	0.116	no trend	1616.7	0.77	7/9/1990	7/26/2018	38.594464	-121.351844
25	3410001-037	NO3N	FALSE	0.072	13	0.619	no trend	44.3	1.8	1/27/1992	6/13/2000	38.578611	-121.366667
19	3410001-038	NO3N	FALSE	0.069	-52	-0.304	no trend	786.7	-1.82	1/28/1992	7/25/2012	38.578371	-121.363395
20	3410001-039	NO3N	FALSE	0.797	-7	-0.051	no trend	545	-0.26	2/22/1991	6/16/2010	38.591742	-121.346413
90	3410001-040	NO3N	FALSE	1	-1	-0.1	no trend	13	0	1/27/1992	6/13/2000	38.624895	-121.35055
168	3410001-042	NO3N	TRUE	0.027	90	0.326	increasing	1623.3	2.21	2/22/1991	7/11/2019	38.628014	-121.358648
184	3410001-051	NO3N	FALSE	0.153	147	0.148	no trend	10449	1.43	7/9/1990	7/10/2019	38.636187	-121.375067
111	3410001-052	NO3N	TRUE	0.039	79	0.312	increasing	1431.7	2.06	7/9/1990	7/10/2019	38.625054	-121.362252
287	3410001-054	NO3N	FALSE	0.107	-70	-0.233	no trend	1831.3	-1.61	2/11/1991	7/16/2019	38.582422	-121.408379
122	3410001-055	NO3N	TRUE	0.004	117	0.424	increasing	1621.7	2.88	11/1/1988	12/13/2017	38.594474	-121.39864
26	3410001-056	NO3N	FALSE	0.122	-71	-0.218	no trend	2049.7	-1.55	1/12/1993	7/9/2018	38.578749	-121.41096
3	3410001-061	NO3N	FALSE	0.195	-47	-0.203	no trend	1257.7	-1.3	5/7/1998	7/18/2019	38.582786	-121.338489
176	3410001-062	NO3N	FALSE	0.489	22	0.116	no trend	920.7	0.69	8/22/2000	7/25/2019	38.618056	-121.401944
12	3410001-064	NO3N	FALSE	0.904	5	0.024	no trend	1095.7	0.12	5/31/2000	7/11/2019	38.584121	-121.353432
13	3410001-065	NO3N	FALSE	0.319	-34	-0.162	no trend	1094.7	-1	2/22/2000	7/18/2019	38.583196	-121.33679
4	3410001-066	NO3N	FALSE	0.974	-2	-0.011	no trend	945.3	-0.03	2/22/2000	7/18/2019	38.582214	-121.338203
2	3410001-067	NO3N	FALSE	0.211	-6	-0.286	no trend	16	-1.25	6/3/1999	10/1/2019	38.582481	-121.417169
225	3410001-069	NO3N	FALSE	0.506	-69	-0.07	no trend	10449	-0.67	2/26/1992	7/16/2019	38.580609	-121.384004
255	3410001-070	NO3N	TRUE	0.018	-226	-0.25	decreasing	9122.7	-2.36	2/12/1991	7/16/2019	38.576006	-121.403088
205	3410001-071	NO3N	TRUE	0.026	59	0.386	increasing	680.3	2.22	3/21/2002	7/10/2019	38.63056	-121.397787
106	3410001-072	NO3N	FALSE	0.183	33	0.243	no trend	577	1.33	3/21/2002	7/25/2019	38.61744	-121.411527
252	3410001-073	NO3N	FALSE	0.43	-21	-0.137	no trend	643	-0.79	3/21/2002	7/25/2019	38.58058	-121.383962
58	3410001-076	NO3N	FALSE	0.402	37	0.114	no trend	1843.7	0.84	6/5/1984	7/10/2019	38.644265	-121.362069
69	3410001-077	NO3N	TRUE	0.036	155	0.246	increasing	5389	2.1	3/7/1984	7/10/2019	38.631522	-121.352911
86	3410001-078	NO3N	FALSE	0.196	63	0.179	no trend	2301	1.29	6/5/1984	7/9/2019	38.684818	-121.355931
259	3410001-079	NO3N	FALSE	0.532	-36	-0.083	no trend	3138.7	-0.62	6/4/1984	7/24/2013	38.667577	-121.334161
110	3410001-080	NO3N	FALSE	0.54	37	0.08	no trend	3457	0.61	6/4/1984	7/17/2019	38.672567	-121.331573
174	3410001-081	NO3N	FALSE	0.897	5	0.026	no trend	946.3	0.13	6/5/1984	7/22/2019	38.683333	-121.333333
71	3410001-082	NO3N	FALSE	1	0	0	no trend	4165.3	0	6/4/1984	7/18/2018	38.648929	-121.338368
246	3410001-083	NO3N	FALSE	0.215	51	0.185	no trend	1624.3	1.24	5/17/1984	7/9/2019	38.663692	-121.347786
239	3410001-085	NO3N	FALSE	0.868	38	0.013	no trend	49707.3	0.17	6/4/1984	10/1/2019	38.644208	-121.329841
49	3410001-087	NO3N	FALSE	0.537	-32	-0.085	no trend	2516.7	-0.62	6/5/1984	7/11/2019	38.645858	-121.392317
218	3410001-088	NO3N	FALSE	1	1	0.004	no trend	1624.3	0	5/17/1984	10/19/2015	38.668746	-121.361
89	3410001-089	NO3N	FALSE	0.985	2	0.005	no trend	2842	0.02	3/7/1984	7/9/2019	38.653579	-121.379692
132	3410001-092	NO3N	FALSE	0.605	29	0.067	no trend	2929	0.52	6/4/1984	7/24/2018	38.63889	-121.342759
185	3410001-094	NO3N	FALSE	0.06	91	0.259	no trend	2290.3	1.88	5/17/1984	7/10/2019	38.652299	-121.354305
196	3410001-095	NO3N	TRUE	0.039	51	0.375	increasing	586.3	2.06	5/17/1984	5/28/2009	38.658062	-121.356402
297	3410001-096	NO3N	FALSE	0.659	21	0.065	no trend	2058.3	0.44	6/30/1988	7/9/2019	38.689669	-121.360198
102	3410001-097	NO3N	FALSE	0.791	13	0.04	no trend	2056.3	0.26	12/13/1984	7/11/2019	38.694158	-121.360024
256	3410001-098	NO3N	FALSE	0.185	68	0.18	no trend	2553.3	1.33	5/9/1984	7/9/2019	38.700217	-121.351805
295	3410001-099	NO3N	FALSE	0.313	75	0.119	no trend	5387	1.01	10/20/1988	4/8/2010	38.655401	-121.313482
46	3410001-101	NO3N	TRUE	0	800	0.296	increasing	45911.3	3.73	10/27/1988	4/15/2019	38.663926	-121.32579
231	3410001-102	NO3N	TRUE	0.011	408	0.223	increasing	25821.3	2.53	10/20/1988	10/1/2019	38.675049	-121.315501
101	3410001-103	NO3N	FALSE	0.063	46	0.338	no trend	584.7	1.86	10/25/1988	11/13/2013	38.651225	-121.32298
163	3410001-104	NO3N	FALSE	0.763	13	0.047	no trend	1579	0.3	2/1/1993	7/10/2019	38.710442	-121.331662
180	3410001-105	NO3N	FALSE	0.821	9	0.039	no trend	1253	0.23	1/18/1995	7/10/2019	38.710528	-121.331667
262	3410001-106	NO3N	FALSE	0.053	29	0.439	no trend	209	1.94	6/28/2001	8/21/2014	38.710517	-121.331659
85	3410001-107	NO3N	FALSE	0.228	-38	-0.2	no trend	942.7	-1.21	11/4/1996	7/18/2018	38.709903	-121.357066
127	3410001-111	NO3N	FALSE	0.553	22	0.095	no trend	1254.7	0.59	12/13/1995	7/11/2019	38.665363	-121.383099
254	3410001-127	NO3N	FALSE	0.652	11	0.092	no trend	492.3	0.45	12/13/1995	8/21/2014	38.712268	-121.381099
283	3410001-128	NO3N	FALSE	0.441	15	0.165	no trend	329.7	0.77	12/13/1995	6/17/2010	38.709783	-121.374669
149	3410001-129	NO3N	TRUE	0.01	74	0.433	increasing	804.7	2.57	12/13/1995	10/15/2014	38.710651	-121.387666
118	3410001-133	NO3N	FALSE	0.146	63	0.21	no trend	1815.7	1.46	2/25/1991	7/22/2019	38.682932	-121.376063
182	3410001-135	NO3N	TRUE	0.004	95	0.452	increasing	1084.3	2.85	1/26/1995	3/13/2018	38.68794	-121.385107
99	3410001-136	NO3N	TRUE	0.042	67	0.319	increasing	1050.3	2.04	2/25/1991	3/27/2018	38.685899	-121.372701
141	3410001-137	NO3N	FALSE	0.312	34	0.162	no trend	1065.3	1.01	2/25/1991	8/21/2014	38.692847	-121.375953
230	3410001-138	NO3N	FALSE	0.085	10	0.667	no trend	27.3	1.72	8/19/1997	1/28/2004	38.676018	-121.36531

183	3410001-139	NO3N	FALSE	0.579	22	0.087	no trend	1432.7	0.55	5/17/1984	7/12/2018	38.69191	-121.364477
200	3410001-140	NO3N	FALSE	0.462	4	0.4	no trend	16.7	0.73	1/26/1995	5/16/2000	38.675278	-121.378889
280	3410001-142	NO3N	TRUE	0.001	120	0.519	increasing	1256.7	3.36	7/20/1989	9/13/2017	38.686782	-121.392424
267	3410001-143	NO3N	FALSE	0.452	5	0.333	no trend	28.3	0.75	7/9/1990	5/16/2000	38.701228	-121.371968
197	3410001-144	NO3N	FALSE	0.441	34	0.113	no trend	1833.3	0.77	2/25/1991	7/23/2019	38.69798	-121.373877
213	3410001-145	NO3N	FALSE	0.879	5	0.033	no trend	695	0.15	3/25/2002	7/10/2019	38.67526	-121.379573
315	3410002-001	NO3N	FALSE	0.104	92	0.211	no trend	3133.3	1.63	2/20/1991	2/5/2019	38.583333	-121.383333
117	3410002-002	NO3N	TRUE	0.028	-95	-0.317	decreasing	1832.3	-2.2	7/17/1990	8/13/2019	38.583333	-121.366667
28	3410002-007	NO3N	FALSE	0.884	8	0.023	no trend	2300	0.15	7/17/1990	2/4/2019	38.566667	-121.4
9	3410002-009	NO3N	FALSE	0.806	-2	-0.2	no trend	16.7	-0.24	8/2/1989	6/17/1999	38.566667	-121.4
10	3410002-012	NO3N	FALSE	0.429	-37	-0.105	no trend	2071.7	-0.79	7/17/1990	8/13/2019	38.566667	-121.416667
17	3410002-013	NO3N	FALSE	0.313	-47	-0.134	no trend	2079.7	-1.01	7/17/1990	2/4/2019	38.583333	-121.416667
249	3410002-014	NO3N	TRUE	0.002	-150	-0.427	decreasing	2300	-3.11	1/19/1993	5/13/2019	38.583333	-121.366667
152	3410003-001	NO3N	FALSE	0.877	11	0.021	no trend	4155	0.16	9/5/1990	2/6/2019	38.587545	-121.385145
153	3410003-002	NO3N	TRUE	0.022	111	0.316	increasing	2299	2.29	4/11/1986	1/8/2019	38.582537	-121.383219
245	3410003-004	NO3N	FALSE	0.166	29	0.276	no trend	408.3	1.39	9/19/1990	7/11/2007	38.587611	-121.392074
162	3410003-005	NO3N	TRUE	0.028	95	0.317	increasing	1832.3	2.2	4/2/1987	1/8/2019	38.591017	-121.384139
251	3410003-006	NO3N	TRUE	0.002	126	0.457	increasing	1623.3	3.1	4/2/1987	1/8/2019	38.59211	-121.387633
238	3410003-008	NO3N	TRUE	0	189	0.582	increasing	2058.3	4.14	4/2/1987	1/8/2019	38.600074	-121.391973
74	3410004-001	NO3N	FALSE	0.1	28	0.359	no trend	268.7	1.65	2/7/1995	2/3/2004	38.645432	-121.313067
83	3410004-004	NO3N	FALSE	0.082	89	0.235	no trend	2561	1.74	2/19/1991	7/28/2011	38.64988	-121.30798
175	3410004-005	NO3N	FALSE	1	-1	-0.036	no trend	64.3	0	3/1/1991	10/4/2001	38.633333	-121.35
172	3410004-006	NO3N	TRUE	0.044	-317	-0.179	decreasing	24568.3	-2.02	8/1/1990	3/7/2019	38.622744	-121.335704
6	3410004-007	NO3N	FALSE	0.495	12	0.154	no trend	260	0.68	8/1/1990	10/23/2002	38.594673	-121.334606
150	3410004-009	NO3N	FALSE	0.773	44	0.027	no trend	22182	0.29	2/19/1991	3/7/2019	38.619652	-121.333354
261	3410004-016	NO3N	FALSE	0.142	161	0.149	no trend	11883.7	1.47	5/8/1987	6/7/2018	38.645576	-121.306819
248	3410004-020	NO3N	TRUE	0	214	0.46	increasing	3460.7	3.62	4/25/2002	6/7/2018	38.641845	-121.315446
139	3410004-021	NO3N	FALSE	0.776	-32	-0.03	no trend	11885.3	-0.28	4/23/2002	3/7/2019	38.604804	-121.342252
290	3410006-001	NO3N	FALSE	1	0	0	no trend	948	0	12/20/1990	11/14/2018	38.661305	-121.292607
207	3410006-007	NO3N	FALSE	1	0	0	no trend	8.7	0	8/2/1990	1/21/1998	38.705556	-121.308333
198	3410006-008	NO3N	FALSE	0.383	34	0.134	no trend	1430.7	0.87	12/6/1990	1/24/2019	38.679425	-121.289154
98	3410006-010	NO3N	FALSE	0.868	4	0.044	no trend	324	0.17	6/24/2004	4/12/2018	38.698638	-121.269673
130	3410007-001	NO3N	FALSE	0.102	34	0.324	no trend	407.3	1.64	4/10/1992	6/24/2010	38.613787	-121.367811
229	3410007-002	NO3N	TRUE	0.006	111	0.402	increasing	1619.7	2.73	1/23/1995	8/7/2019	38.613607	-121.371676
216	3410007-003	NO3N	FALSE	0.367	33	0.143	no trend	1257.7	0.9	2/19/1991	9/11/2018	38.606352	-121.369707
269	3410007-004	NO3N	FALSE	0.073	73	0.264	no trend	1607.7	1.8	1/23/1995	8/6/2019	38.607768	-121.374083
77	3410007-005	NO3N	TRUE	0.004	116	0.42	increasing	1620.7	2.86	1/23/1995	8/6/2019	38.61458	-121.378552
142	3410007-006	NO3N	FALSE	0.68	11	0.081	no trend	588.3	0.41	1/23/1995	3/8/2012	38.60731	-121.364767
195	3410007-007	NO3N	FALSE	0.068	70	0.277	no trend	1430	1.82	1/23/1995	8/6/2019	38.606531	-121.380719
253	3410007-008	NO3N	FALSE	0.08	76	0.253	no trend	1831.3	1.75	1/26/1993	8/13/2019	38.613172	-121.380739
166	3410009-001	NO3N	FALSE	0.436	-8	-0.178	no trend	80.7	-0.78	1/28/1993	6/16/2004	38.643048	-121.268528
100	3410009-003	NO3N	FALSE	0.707	3	0.2	no trend	28.3	0.38	11/9/1988	2/8/2000	38.666667	-121.216667
105	3410009-004	NO3N	TRUE	0.009	81	0.426	increasing	935.7	2.62	8/2/1990	12/6/2007	38.651282	-121.255173
78	3410009-005	NO3N	FALSE	0.449	13	0.167	no trend	251	0.76	2/28/1991	3/17/2005	38.650805	-121.286999
201	3410009-006	NO3N	FALSE	0.119	-144	-0.167	no trend	8419.3	-1.56	2/28/1991	5/2/2019	38.642768	-121.278261
234	3410009-007	NO3N	FALSE	0.054	-172	-0.21	no trend	7886	-1.93	7/19/1989	5/2/2019	38.651297	-121.296666
217	3410009-008	NO3N	FALSE	0.337	52	0.128	no trend	2818	0.96	8/16/1990	6/29/2007	38.662066	-121.265396
164	3410009-010	NO3N	TRUE	0	-589	-0.322	decreasing	25779	-3.66	11/7/1991	5/2/2019	38.659628	-121.25556
93	3410013-001	NO3N	FALSE	0.358	50	0.123	no trend	2842	0.92	10/7/1992	8/6/2019	38.694922	-121.332628
159	3410013-002	NO3N	FALSE	0.117	84	0.207	no trend	2804	1.57	2/18/1992	8/6/2019	38.69054	-121.34151
51	3410013-003	NO3N	TRUE	0.002	136	0.453	increasing	1831.3	3.15	11/2/1988	8/8/2019	38.683982	-121.31348
240	3410013-004	NO3N	FALSE	0.051	-181	-0.21	no trend	8512.3	-1.95	7/2/1990	8/7/2018	38.699328	-121.295627
178	3410013-005	NO3N	TRUE	0.023	122	0.3	increasing	2838	2.27	7/2/1990	8/6/2019	38.669042	-121.293798
63	3410013-006	NO3N	FALSE	0.227	72	0.155	no trend	3450	1.21	2/11/1992	8/7/2019	38.685052	-121.305855
156	3410013-007	NO3N	FALSE	0.195	50	0.198	no trend	1432.7	1.29	7/2/1990	2/19/2018	38.691478	-121.336784
270	3410013-008	NO3N	TRUE	0.008	128	0.365	increasing	2292.7	2.65	2/13/1991	8/6/2019	38.673506	-121.340002
224	3410013-009	NO3N	FALSE	0.499	-115	-0.059	no trend	28425	-0.68	2/11/1992	8/6/2019	38.695662	-121.29509
92	3410013-010	NO3N	TRUE	0.011	-543	-0.201	decreasing	45915	-2.53	2/11/1992	8/6/2019	38.670117	-121.341406
237	3410013-012	NO3N	TRUE	0.024	127	0.292	increasing	3137	2.25	7/2/1990	8/7/2019	38.66565	-121.302524
223	3410013-013	NO3N	TRUE	0.005	-269	-0.298	decreasing	9126.3	-2.81	2/12/1991	8/7/2019	38.678824	-121.304628
144	3410013-014	NO3N	FALSE	0.117	76	0.217	no trend	2291.3	1.57	2/12/1991	8/6/2019	38.668822	-121.304482
112	3410013-015	NO3N	FALSE	0.295	54	0.143	no trend	2562	1.05	2/18/1992	8/6/2019	38.70124	-121.345319
233	3410013-016	NO3N	TRUE	0	7337	0.413	increasing	755319.7	8.44	2/11/1993	9/10/2019	38.709473	-121.292244
265	3410013-017	NO3N	FALSE	0.054	36	0.396	no trend	330	1.93	2/11/1992	8/24/2006	38.712243	-121.303547
247	3410013-019	NO3N	TRUE	0.001	164	0.434	increasing	2545.3	3.23	7/2/1990	8/6/2019	38.700287	-121.330955
226	3410013-020	NO3N	FALSE	0.533	10	0.11	no trend	208.7	0.62	2/12/1991	8/24/2006	38.716217	-121.294262
88	3410013-021	NO3N	TRUE	0	910	0.366	increasing	40585.3	4.51	2/13/1991	8/6/2019	38.683333	-121.31
232	3410013-022	NO3N	TRUE	0	4775	0.536	increasing	269178.3	9.2	2/18/1992	4/5/2017	38.7124	-121.306829
189	3410013-023	NO3N	TRUE	0	212	0.487	increasing	3140.7	3.77	2/11/1992	8/7/2019	38.695536	-121.313454
66	3410013-024	NO3N	FALSE	0.051	116	0.249	no trend	3460.7	1.95	2/11/1992	8/6/2019	38.680539	-121.31067
220	3410013-025	NO3N	TRUE	0.004	123	0.41	increasing	1832.3	2.85	2/18/1992	8/13/2018	38.718426	-121.313299

188	3410013-026	NO3N	TRUE	0.046	102	0.27	increasing	2560	2	7/2/1990	8/6/2019	38.701667	-121.344722
119	3410013-027	NO3N	TRUE	0	1514	0.627	increasing	38714	7.69	2/18/1992	5/5/2015	38.709413	-121.317252
165	3410013-028	NO3N	TRUE	0.003	115	0.455	increasing	1429	3.02	6/19/1995	8/6/2019	38.698857	-121.32618
125	3410016-001	NO3N	FALSE	0.099	25	0.379	no trend	211.7	1.65	1/28/1993	3/22/2007	38.686538	-121.219546
147	3410016-002	NO3N	TRUE	0.023	56	0.412	increasing	584.7	2.27	4/18/1991	12/14/2016	38.694541	-121.210813
126	3410018-005	NO3N	FALSE	0.297	14	0.255	no trend	155.3	1.04	2/28/1991	3/3/2005	38.721801	-121.46774
24	3410020-015	NO3N	FALSE	0.156	32	0.267	no trend	476.7	1.42	1/17/1992	4/3/2017	38.6125	-121.479167
11	3410020-016	NO3N	FALSE	0.139	-28	-0.308	no trend	332.7	-1.48	1/17/1992	1/20/2015	38.616667	-121.479167
293	3410020-017	NO3N	FALSE	0.607	-27	-0.071	no trend	2558.3	-0.51	11/18/1988	7/8/2019	38.62266	-121.477813
84	3410020-018	NO3N	TRUE	0.024	92	0.333	increasing	1623.3	2.26	1/17/1992	2/4/2019	38.627831	-121.477227
292	3410020-021	NO3N	FALSE	0.36	16	0.205	no trend	268.7	0.92	1/21/1992	10/10/2012	38.607083	-121.454779
97	3410020-022	NO3N	FALSE	0.405	23	0.15	no trend	697	0.83	11/18/1988	4/27/2018	38.607305	-121.443097
136	3410020-023	NO3N	FALSE	0.692	-9	-0.086	no trend	408.3	-0.4	1/21/1992	4/20/2018	38.604956	-121.439486
314	3410020-024	NO3N	FALSE	0.234	35	0.205	no trend	815	1.19	11/18/1988	10/10/2012	38.612801	-121.450505
129	3410020-025	NO3N	FALSE	0.076	18	0.5	no trend	92	1.77	1/21/1992	10/9/2008	38.612294	-121.440456
215	3410020-027	NO3N	TRUE	0.022	93	0.337	increasing	1624.3	2.28	1/22/1992	2/4/2019	38.620988	-121.443553
279	3410020-028	NO3N	TRUE	0	231	0.77	increasing	1829.7	5.38	11/18/1988	2/26/2018	38.62044	-121.432285
108	3410020-029	NO3N	FALSE	0.484	18	0.132	no trend	589.3	0.7	1/17/1992	4/20/2018	38.618056	-121.468056
107	3410020-030	NO3N	FALSE	0.894	-6	-0.024	no trend	1396	-0.13	1/17/1992	2/4/2019	38.625119	-121.462605
59	3410020-032	NO3N	FALSE	0.543	-24	-0.095	no trend	1430.7	-0.61	1/16/1991	2/4/2019	38.628503	-121.43627
55	3410020-033	NO3N	TRUE	0.012	73	0.427	increasing	817	2.52	11/16/1988	10/10/2012	38.626808	-121.42959
171	3410020-034	NO3N	TRUE	0.016	104	0.347	increasing	1833.3	2.41	1/16/1991	2/4/2019	38.638412	-121.446721
73	3410020-035	NO3N	FALSE	0.157	58	0.21	no trend	1623.3	1.41	1/16/1991	2/4/2019	38.639934	-121.427293
133	3410020-037	NO3N	FALSE	0.181	58	0.193	no trend	1815.3	1.34	1/16/1991	2/4/2019	38.651207	-121.469509
264	3410020-038	NO3N	FALSE	0.206	52	0.188	no trend	1625.3	1.27	1/16/1991	2/4/2019	38.647475	-121.459256
50	3410020-039	NO3N	FALSE	0.118	16	0.444	no trend	92	1.56	1/22/1992	11/9/2004	38.627595	-121.432917
56	3410020-040	NO3N	FALSE	1	-1	-0.003	no trend	2294.3	0	10/22/1990	2/4/2019	38.629597	-121.420726
278	3410020-041	NO3N	TRUE	0	170	0.523	increasing	2057.3	3.73	1/16/1991	2/4/2019	38.641387	-121.435795
22	3410020-042	NO3N	FALSE	0.893	4	0.033	no trend	493.3	0.14	1/21/1992	3/5/2019	38.596923	-121.458973
294	3410020-044	NO3N	FALSE	0.3	24	0.2	no trend	493.3	1.04	10/16/1990	10/10/2012	38.613996	-121.456155
194	3410020-045	NO3N	FALSE	0.161	61	0.203	no trend	1832.3	1.4	10/19/1990	2/4/2019	38.622276	-121.446858
134	3410020-046	NO3N	TRUE	0.003	98	0.467	increasing	1096.7	2.93	1/22/1992	3/24/2016	38.623116	-121.427024
157	3410020-050	NO3N	FALSE	0.79	8	0.052	no trend	693.3	0.27	1/16/1991	10/15/2015	38.668053	-121.438012
42	3410020-051	NO3N	FALSE	0.432	-27	-0.129	no trend	1093.7	-0.79	1/16/1991	2/4/2019	38.634413	-121.412516
296	3410020-052	NO3N	FALSE	0.795	10	0.043	no trend	1204.7	0.26	3/8/1993	2/4/2019	38.599341	-121.445804
214	3410020-054	NO3N	TRUE	0.013	95	0.375	increasing	1429	2.49	1/21/1992	2/4/2019	38.596324	-121.427308
33	3410020-055	NO3N	FALSE	0.065	-62	-0.295	no trend	1096.7	-1.84	1/17/1992	5/9/2017	38.617636	-121.469304
91	3410020-056	NO3N	TRUE	0.014	100	0.362	increasing	1614.7	2.46	1/12/1994	2/4/2019	38.654657	-121.448564
291	3410020-057	NO3N	FALSE	0.921	-3	-0.029	no trend	403.7	-0.1	1/18/1995	12/27/2018	38.658482	-121.466415
30	3410026-001	NO3N	FALSE	0.242	-5	-0.333	no trend	11.7	-1.17	2/21/1991	5/31/2012	38.58961	-121.429343
7	3410026-002	NO3N	FALSE	0.737	7	0.051	no trend	319.7	0.34	2/21/1991	3/7/2019	38.588266	-121.423478
31	3410026-003	NO3N	FALSE	0.161	-22	-0.183	no trend	224.7	-1.4	2/21/1991	3/7/2019	38.593617	-121.439154
18	3410026-004	NO3N	FALSE	0.132	-14	-0.133	no trend	74.7	-1.5	2/21/1991	3/7/2019	38.593339	-121.432431
206	3410031-001	NO3N	FALSE	0.081	94	0.232	no trend	2831.3	1.75	3/24/1988	8/7/2019	38.720833	-121.358333
190	3410031-002	NO3N	FALSE	0.44	38	0.108	no trend	2300	0.77	9/10/1993	8/6/2019	38.717222	-121.3575
94	3410031-003	NO3N	TRUE	0.014	99	0.359	increasing	1597	2.45	2/12/1991	8/6/2019	38.7	-121.383333
221	3410031-004	NO3N	TRUE	0.004	161	0.37	increasing	3124.3	2.86	10/29/1987	8/8/2019	38.718056	-121.382222
61	3410031-005	NO3N	TRUE	0	159	0.53	increasing	1805	3.72	2/26/1992	8/24/2016	38.716667	-121.4
160	3410031-006	NO3N	TRUE	0.001	162	0.429	increasing	2557.3	3.18	11/2/1988	8/6/2019	38.708333	-121.383611
2073	3410031-007	NO3N	TRUE	0.003	158	0.389	increasing	2834.7	2.95	2/12/1991	8/8/2019	38.733333	-121.35
2056	3410031-008	NO3N	FALSE	0.53	76	0.062	no trend	14288	0.63	10/7/1992	8/8/2019	38.733333	-121.35
208	3410031-009	NO3N	FALSE	0.089	-87	-0.23	no trend	2549.7	-1.7	1/15/1992	8/6/2019	38.715278	-121.378056
72	3410031-010	NO3N	FALSE	0.104	-79	-0.225	no trend	2297	-1.63	9/10/1993	8/8/2019	38.705	-121.365556
289	3410031-011	NO3N	FALSE	0.154	89	0.179	no trend	3801.7	1.43	6/21/1990	8/7/2018	38.726944	-121.3825
135	3410031-012	NO3N	TRUE	0.027	74	0.352	increasing	1096.7	2.2	6/12/1992	8/8/2019	38.721111	-121.368611
45	3410031-013	NO3N	TRUE	0.007	151	0.347	increasing	3125	2.68	2/25/1992	8/8/2019	38.711667	-121.413889
54	3410031-014	NO3N	FALSE	0.056	108	0.248	no trend	3138.7	1.91	4/15/1987	8/6/2019	38.716111	-121.408889
95	3410031-015	NO3N	FALSE	0.3	24	0.2	no trend	493.3	1.04	2/11/1993	8/12/2019	38.716667	-121.416667
241	3410031-016	NO3N	TRUE	0	189	0.582	increasing	2013	4.19	7/16/1996	8/6/2019	38.724444	-121.336111
80	3410031-017	NO3N	FALSE	0.396	31	0.134	no trend	1247	0.85	4/30/1998	8/7/2019	38.723056	-121.349722
257	3410031-018	NO3N	TRUE	0.006	-111	-0.402	decreasing	1599	-2.75	1/9/1996	8/8/2019	38.716389	-121.371944
288	3410045-001	NO3N	FALSE	0.293	75	0.126	no trend	4954.3	1.05	2/25/1992	8/7/2019	38.586137	-121.411513
138	3410045-002	NO3N	FALSE	0.403	41	0.117	no trend	2291.7	0.84	2/25/1992	8/7/2019	38.583085	-121.413054
116	3410045-003	NO3N	FALSE	0.617	-25	-0.071	no trend	2299	-0.5	1/21/1993	8/7/2019	38.594423	-121.417465
243	3410045-004	NO3N	FALSE	0.98	-2	-0.007	no trend	1623.3	-0.02	7/3/1990	8/11/2014	38.592566	-121.407256
96	3410045-005	NO3N	FALSE	0.066	94	0.249	no trend	2560	1.84	2/12/1991	8/7/2019	38.600025	-121.410183
35	3410301-001	NO3N	FALSE	0.462	-4	-0.4	no trend	16.7	-0.73	3/9/2005	3/20/2019	38.655029	-121.206869
2074	3910005-049	NO3N	FALSE	0.881	79	0.009	no trend	270133	0.15	6/9/2009	8/6/2019	38.8271	-121.232
2894	5100117-001	NO3N	FALSE	0.734	-2	-0.333	no trend	8.7	-0.34	5/1/1995	12/20/2000	38.89568	-121.56893
2893	5100117-002	NO3N	TRUE	0.011	-68	-0.398	decreasing	696.7	-2.54	5/1/1995	6/21/2017	38.902331	-121.570943
2897	5100117-003	NO3N	TRUE	0.026	-65	-0.342	decreasing	829.7	-2.22	5/1/1995	6/20/2018	38.896068	-121.567281

2896	5100117-004	NO3N	FALSE	0.121	-38	-0.279	no trend	568	-1.55	11/5/2002	6/20/2018	38.896379	-121.56981
2913	5100135-001	NO3N	FALSE	0.207	55	0.183	no trend	1829.7	1.26	7/5/1995	7/24/2019	38.911394	-121.544681
2915	5100136-001	NO3N	FALSE	1	0	0	no trend	8.7	0	12/15/1994	11/17/1999	38.911667	-121.525833
2908	5100136-002	NO3N	TRUE	0.028	59	0.386	increasing	697	2.2	11/13/2002	4/17/2019	38.911927	-121.526004
2901	5100138-001	NO3N	TRUE	0.033	109	0.288	increasing	2561	2.13	9/5/1989	1/8/2019	38.947299	-121.524183
2902	5100140-001	NO3N	FALSE	0.651	-11	-0.092	no trend	489.7	-0.45	2/11/1991	5/19/2010	38.911233	-121.542832
2910	5100140-002	NO3N	FALSE	1	0	0	no trend	92	0	7/6/2010	7/24/2019	38.911269	-121.542936
2900	5100143-001	NO3N	FALSE	0.837	4	0.061	no trend	212.7	0.21	2/11/1991	5/18/2005	38.823397	-121.503832
2905	5100143-002	NO3N	FALSE	0.592	-14	-0.103	no trend	589.3	-0.54	9/21/2005	5/15/2019	38.823303	-121.503779
2903	5100153-001	NO3N	FALSE	0.597	21	0.083	no trend	1433.7	0.53	11/21/1994	4/20/2005	38.771748	-121.5251
2904	5100153-002	NO3N	TRUE	0.009	-81	-0.426	decreasing	949	-2.6	3/8/2005	1/8/2019	38.772313	-121.525061
2911	5100159-001	NO3N	FALSE	1	-1	-0.007	no trend	181	0	3/29/1996	1/8/2019	38.784649	-121.617807
2898	5100160-002	NO3N	FALSE	0.798	-7	-0.041	no trend	548.3	-0.26	2/28/2002	1/8/2019	38.778461	-121.601924
2914	5101205-001	NO3N	FALSE	1	-1	-0.018	no trend	165	0	7/5/1995	7/19/2006	38.909988	-121.543625
2912	5103002-001	NO3N	FALSE	0.149	78	0.192	no trend	2842	1.44	7/5/1995	1/12/2017	38.82383	-121.48433
2895	5105002-001	NO3N	TRUE	0.029	-25	-0.275	decreasing	121	-2.18	11/19/2003	7/24/2019	38.881393	-121.60408
2907	5105004-001	NO3N	TRUE	0.003	-121	-0.372	decreasing	1603.7	-3	11/29/2000	6/19/2019	38.777769	-121.52437
2906	5105004-002	NO3N	FALSE	1	0	0	no trend	125	0	10/21/2009	6/19/2019	38.777766	-121.525116
847	T0606700736-U-1	NO3N	FALSE	0.73	4	0.111	no trend	75.3	0.35	4/13/2012	7/24/2014	38.6643785	-121.2619887
1263	T0606700736-U-2	NO3N	FALSE	1	0	0	no trend	92	0	4/13/2012	7/24/2014	38.6644124	-121.2616867
1581	T0606700736-U-3	NO3N	FALSE	0.063	-18	-0.5	no trend	83.3	-1.86	4/13/2012	7/24/2014	38.6643082	-121.261563
775	T0606700736-U-4	NO3N	FALSE	1	0	0	no trend	92	0	4/13/2012	7/24/2014	38.6645843	-121.261931
1237	T0606700736-U-7	NO3N	FALSE	0.142	-15	-0.417	no trend	91	-1.47	4/13/2012	7/24/2014	38.6639123	-121.2616611
1510	T0606700736-U-8	NO3N	FALSE	0.443	8	0.222	no trend	83.3	0.77	4/13/2012	7/24/2014	38.6644205	-121.2623142
1457	T0606700736-U-9	NO3N	FALSE	1	0	0	no trend	92	0	4/13/2012	7/24/2014	38.6651105	-121.2622752
1859	USGS-383746121291101	NO3N	FALSE	0.21	-15	-0.333	no trend	125	-1.25	8/4/1998	8/8/2017	38.6292139	-121.4877028
1860	USGS-384145121184101	NO3N	FALSE	0.754	4	0.111	no trend	92	0.31	8/17/1998	9/4/2012	38.6964	-121.3120389
1868	USGS-384330121293901	NO3N	FALSE	0.592	-7	-0.156	no trend	125	-0.54	8/11/1997	7/10/2017	38.7251167	-121.4954417
2803	USGS-384820121200701	NO3N	FALSE	0.734	-2	-0.333	no trend	8.7	-0.34	7/8/2007	8/7/2007	38.80575	-121.3355278
2804	USGS-384821121200801	NO3N	FALSE	0.466	8	0.222	no trend	92	0.73	8/6/2007	2/28/2008	38.8058333	-121.33575
2802	USGS-384822121200701	NO3N	FALSE	0.308	4	0.667	no trend	8.7	1.02	8/8/2007	8/8/2007	38.8063056	-121.3353889
3034	USGS-385546121312801	NO3N	FALSE	0.806	-2	-0.2	no trend	16.7	-0.24	6/3/1965	10/5/2017	38.92925	-121.5254444
3034	USGS-385546121312801	NO3N	FALSE	0.806	-2	-0.2	no trend	16.7	-0.24	6/3/1965	10/5/2017	38.92925	-121.5254444
3042	USGS-385718121290401	NO3N	FALSE	0.308	4	0.667	no trend	8.7	1.02	5/19/1965	5/20/2008	38.9548956	-121.4855142
3042	USGS-385718121290401	NO3N	FALSE	0.308	4	0.667	no trend	8.7	1.02	5/19/1965	5/20/2008	38.9548956	-121.4855142

# Boron

Local_ID	Well_Info_ID	chemical	h	p	s	tau	trend	var_s	z	datemin	datemax	Latitude_NAD83	Longitude_NAD83
2934	11N03E24D001M	B	FALSE	0.242	7	0.467	no trend	26.3	1.17	7/21/1964	8/18/2004	38.7906	-121.5973
2940	11N04E04R002M	B	FALSE	0.371	-3	-0.5	no trend	5	-0.89	8/12/1971	8/24/2005	38.8255	-121.5259
2957	11N04E23P002M	B	FALSE	1	0	0	no trend	0	0	4/15/1965	8/18/2004	38.7837	-121.4982
2943	11N04E35J001M	B	FALSE	1	0	0	no trend	0	0	6/19/1968	8/24/2005	38.7556	-121.4898
2083	11N06E17D001M	B	TRUE	0	642	0.417	increasing	19908	4.54	5/5/2004	3/26/2008	38.8064	-121.3353
2081	11N06E17D002M	B	FALSE	0.884	-15	-0.01	no trend	9182.3	-0.15	5/6/2004	3/26/2008	38.8027	-121.3384
2080	11N06E17D003M	B	TRUE	0.031	228	0.22	increasing	11019.3	2.16	5/5/2004	3/26/2008	38.8059	-121.3358
2082	11N06E17E001M	B	TRUE	0	622	0.404	increasing	19728	4.42	5/5/2004	3/26/2008	38.8058	-121.3354
2953	12N03E26R001M	B	FALSE	0.149	5	0.833	no trend	7.7	1.44	6/13/1963	8/18/2004	38.8533	-121.5991
2967	12N04E05R005M	B	FALSE	0.26	-7	-0.467	no trend	28.3	-1.13	8/25/1970	8/18/2004	38.9114	-121.5447
2956	12N04E25N001M	B	FALSE	0.181	-8	-0.533	no trend	27.3	-1.34	6/12/1969	8/25/2005	38.8546	-121.4859
2059	3100538-001	B	FALSE	0.734	-2	-0.333	no trend	8.7	-0.34	3/18/2004	3/23/2018	38.7505	-121.321972
2060	3104508-001	B	FALSE	1	-1	-0.167	no trend	7.7	0	2/19/2004	4/20/2017	38.729952	-121.321616
172	3410004-006	B	FALSE	1	1	0.1	no trend	13	0	1/29/2002	11/4/2003	38.622744	-121.335704
150	3410004-009	B	FALSE	1	1	0.1	no trend	13	0	1/29/2002	10/23/2003	38.619652	-121.333354
261	3410004-016	B	FALSE	1	0	0	no trend	8.7	0	1/29/2002	4/30/2003	38.645576	-121.306819
248	3410004-020	B	FALSE	1	0	0	no trend	16.7	0	4/25/2002	10/21/2003	38.641845	-121.315446
93	3410013-001	B	FALSE	0.386	-8	-0.286	no trend	65.3	-0.87	3/18/2003	8/13/2018	38.694922	-121.332628
159	3410013-002	B	FALSE	0.536	-6	-0.214	no trend	65.3	-0.62	3/18/2003	8/13/2018	38.69054	-121.34151
51	3410013-003	B	FALSE	0.898	2	0.071	no trend	60.7	0.13	6/18/2002	8/16/2018	38.683982	-121.31348
240	3410013-004	B	FALSE	0.063	16	0.571	no trend	65.3	1.86	6/20/2001	8/7/2018	38.699328	-121.295627
178	3410013-005	B	FALSE	0.898	2	0.071	no trend	60.7	0.13	6/19/2002	8/7/2018	38.669042	-121.293798
63	3410013-006	B	FALSE	0.706	4	0.143	no trend	63.3	0.38	6/20/2001	8/8/2018	38.685052	-121.305855
156	3410013-007	B	FALSE	1	-1	-0.067	no trend	28.3	0	7/22/2003	8/19/2015	38.691478	-121.336784
270	3410013-008	B	FALSE	0.826	3	0.083	no trend	82.3	0.22	9/17/2002	8/16/2018	38.673506	-121.340002
224	3410013-009	B	FALSE	0.352	8	0.286	no trend	56.7	0.93	3/18/2003	8/7/2018	38.695662	-121.29509
92	3410013-010	B	FALSE	0.898	2	0.071	no trend	60.7	0.13	6/19/2002	8/15/2018	38.670117	-121.341406
237	3410013-012	B	FALSE	0.618	5	0.179	no trend	64.3	0.5	6/20/2001	8/13/2018	38.66565	-121.302524
223	3410013-013	B	FALSE	0.898	2	0.071	no trend	60.7	0.13	6/18/2002	8/13/2018	38.678824	-121.304628
144	3410013-014	B	FALSE	0.898	2	0.071	no trend	60.7	0.13	6/19/2002	8/8/2018	38.668822	-121.304482
112	3410013-015	B	FALSE	0.352	8	0.286	no trend	56.7	0.93	3/19/2003	8/6/2018	38.70124	-121.345319
233	3410013-016	B	TRUE	0.035	-18	-0.643	decreasing	65.3	-2.1	6/18/2002	8/13/2018	38.709473	-121.292244
265	3410013-017	B	FALSE	0.734	-2	-0.333	no trend	8.7	-0.34	6/18/2002	8/24/2006	38.712243	-121.303547
247	3410013-019	B	FALSE	0.536	-6	-0.214	no trend	65.3	-0.62	6/20/2001	8/6/2018	38.700287	-121.330955
226	3410013-020	B	FALSE	0.221	-6	-0.6	no trend	16.7	-1.22	6/20/2001	8/24/2006	38.716217	-121.294262
88	3410013-021	B	FALSE	0.8	3	0.107	no trend	62.3	0.25	6/20/2001	8/8/2018	38.683333	-121.35
232	3410013-022	B	FALSE	0.339	6	0.4	no trend	27.3	0.96	6/18/2002	9/11/2012	38.7124	-121.306829
189	3410013-023	B	FALSE	1	0	0	no trend	65.3	0	6/20/2001	8/7/2018	38.695536	-121.313454
66	3410013-024	B	FALSE	0.8	3	0.107	no trend	62.3	0.25	6/20/2001	8/7/2018	38.680539	-121.31067
220	3410013-025	B	FALSE	1	1	0.048	no trend	44.3	0	6/18/2002	8/13/2018	38.718426	-121.313299
188	3410013-026	B	FALSE	0.711	-4	-0.143	no trend	65.3	-0.37	6/20/2001	8/6/2018	38.701667	-121.344722
119	3410013-027	B	FALSE	0.707	3	0.2	no trend	28.3	0.38	6/18/2002	9/18/2012	38.709413	-121.317252
165	3410013-028	B	FALSE	0.711	4	0.143	no trend	65.3	0.37	6/20/2001	8/13/2018	38.698857	-121.32618
206	3410031-001	B	FALSE	0.181	8	0.533	no trend	27.3	1.34	6/25/2001	8/11/2015	38.720833	-121.358333
190	3410031-002	B	FALSE	0.266	10	0.357	no trend	65.3	1.11	6/19/2002	8/8/2018	38.717222	-121.3575
94	3410031-003	B	FALSE	0.879	2	0.095	no trend	43.3	0.15	6/25/2001	8/14/2018	38.7	-121.383333
221	3410031-004	B	FALSE	0.266	-10	-0.357	no trend	65.3	-1.11	6/19/2002	8/14/2018	38.718056	-121.382222
61	3410031-005	B	FALSE	0.759	3	0.143	no trend	42.3	0.31	6/25/2001	8/5/2015	38.716667	-121.4
160	3410031-006	B	FALSE	0.618	5	0.179	no trend	64.3	0.5	6/25/2001	8/14/2018	38.708333	-121.383611
2073	3410031-007	B	FALSE	0.548	5	0.238	no trend	44.3	0.6	6/25/2001	8/9/2018	38.733333	-121.35
2056	3410031-008	B	FALSE	0.518	7	0.194	no trend	86.3	0.65	6/25/2001	8/9/2018	38.733333	-121.35
208	3410031-009	B	FALSE	0.063	-16	-0.571	no trend	65.3	-1.86	6/19/2002	8/7/2018	38.715278	-121.378056
72	3410031-010	B	FALSE	0.174	12	0.429	no trend	65.3	1.36	6/19/2002	8/7/2018	38.705	-121.365556
289	3410031-011	B	FALSE	1	0	0	no trend	65.3	0	6/19/2002	8/7/2018	38.726944	-121.3825
135	3410031-012	B	FALSE	0.806	-2	-0.2	no trend	16.7	-0.24	6/25/2001	8/7/2018	38.721111	-121.368611
45	3410031-013	B	FALSE	0.898	2	0.071	no trend	60.7	0.13	6/19/2002	8/14/2018	38.711667	-121.413889
54	3410031-014	B	FALSE	0.548	5	0.238	no trend	44.3	0.6	6/25/2001	8/14/2018	38.716111	-121.408889
241	3410031-016	B	FALSE	0.902	2	0.071	no trend	65.3	0.12	6/19/2002	8/8/2018	38.724444	-121.336111
80	3410031-017	B	FALSE	0.902	-2	-0.071	no trend	65.3	-0.12	6/19/2002	8/8/2018	38.723056	-121.349722
257	3410031-018	B	FALSE	0.23	9	0.429	no trend	44.3	1.2	6/25/2001	8/7/2018	38.716389	-121.371944
288	3410045-001	B	FALSE	0.8	3	0.107	no trend	62.3	0.25	6/26/2001	8/7/2018	38.586137	-121.411513
138	3410045-002	B	FALSE	0.898	2	0.071	no trend	60.7	0.13	2/27/2002	8/7/2018	38.583085	-121.413054
116	3410045-003	B	FALSE	0.8	3	0.107	no trend	62.3	0.25	6/26/2001	8/7/2018	38.594423	-121.417465
243	3410045-004	B	FALSE	0.697	-3	-0.2	no trend	26.3	-0.39	6/26/2001	7/12/2012	38.592566	-121.407256
96	3410045-005	B	FALSE	0.898	2	0.071	no trend	60.7	0.13	2/27/2002	8/7/2018	38.600025	-121.410183
1859	USGS-383746121291101	B	FALSE	0.902	-2	-0.071	no trend	65.3	-0.12	8/4/1998	8/8/2017	38.6292139	-121.4877028
1855	USGS-383900121270001	B	FALSE	0.734	2	0.333	no trend	8.7	0.34	6/14/2005	6/15/2005	38.6585	-121.4664722
1860	USGS-384145121184101	B	FALSE	0.368	7	0.333	no trend	44.3	0.9	8/17/1998	9/4/2012	38.6964	-121.3120389
1868	USGS-384330121293901	B	FALSE	0.23	9	0.429	no trend	44.3	1.2	8/11/1997	7/10/2017	38.7251167	-121.4954417
2806	USGS-384413121163801	B	FALSE	1	0	0	no trend	8.7	0	9/24/1982	3/10/2014	38.7369444	-121.2772222

3034	USGS-385546121312801	B	FALSE	0.613	3	0.3	no trend	15.7	0.51	6/3/1965	10/5/2017	38.92925	-121.5254444
3034	USGS-385546121312801	B	FALSE	0.613	3	0.3	no trend	15.7	0.51	6/3/1965	10/5/2017	38.92925	-121.5254444



**Iron**

Local_ID	Well_Info_ID	chemical	h	p	s	tau	trend	var_s	z	datemin	datemax	Latitude_NAD83	Longitude_NAD83
2083	11N06E17D001M	FE	FALSE	0.357	24	0.074	no trend	624.7	0.92	5/5/2004	3/26/2008	38.8064	-121.3353
2081	11N06E17D002M	FE	FALSE	0.341	69	0.05	no trend	5104.3	0.95	5/6/2004	3/26/2008	38.8027	-121.3384
2080	11N06E17D003M	FE	TRUE	0.047	78	0.283	increasing	1499.3	1.99	5/5/2004	3/26/2008	38.8059	-121.3358
2082	11N06E17E001M	FE	FALSE	0.663	-17	-0.048	no trend	1351	-0.44	5/5/2004	3/26/2008	38.8058	-121.3354
2059	3100538-001	FE	TRUE	0.008	25	0.694	increasing	82.3	2.64	8/19/1999	6/12/2019	38.7505	-121.321972
2060	3104508-001	FE	FALSE	0.613	-3	-0.3	no trend	15.7	-0.51	2/19/2004	4/20/2017	38.729952	-121.321616
2071	3110008-006	FE	FALSE	0.707	-3	-0.2	no trend	28.3	-0.38	10/31/1995	8/25/2016	38.736633	-121.277875
2066	3110008-007	FE	FALSE	0.794	-2	-0.2	no trend	14.7	-0.26	10/31/1995	8/25/2016	38.726493	-121.258205
2050	3110008-008	FE	FALSE	0.411	5	0.333	no trend	23.7	0.82	10/22/2002	8/23/2018	38.805938	-121.33588
2064	3110025-005	FE	FALSE	0.536	-13	-0.096	no trend	375.7	-0.62	7/26/1989	9/12/2019	38.818889	-121.31
2063	3110040-001	FE	FALSE	0.324	13	0.236	no trend	148.3	0.99	9/27/1988	7/9/2002	38.75	-121.34722
2067	3110040-002	FE	FALSE	0.078	-17	-0.472	no trend	82.3	-1.76	8/31/1989	7/9/2002	38.75	-121.34444
2054	3110048-001	FE	FALSE	0.089	6	1	no trend	8.7	1.7	2/5/2003	4/9/2018	38.983062	-121.375659
2058	3110048-002	FE	FALSE	0.734	-2	-0.333	no trend	8.7	-0.34	2/5/2003	4/9/2018	38.980075	-121.369185
145	3400173-002	FE	FALSE	1	-1	-0.167	no trend	7.7	0	5/24/2001	2/14/2017	38.640638	-121.483861
235	3400173-003	FE	FALSE	0.308	-4	-0.667	no trend	8.7	-1.02	10/25/2001	2/15/2017	38.654819	-121.477561
272	3400191-001	FE	FALSE	0.149	5	0.833	no trend	7.7	1.44	8/17/2001	3/23/2018	38.65525	-121.379888
193	3410001-001	FE	FALSE	1	-1	-0.018	no trend	156.3	0	4/14/1987	9/5/2017	38.606839	-121.3982
242	3410001-002	FE	FALSE	0.522	-9	-0.164	no trend	156.3	-0.64	4/14/1987	10/18/2017	38.59783	-121.398024
258	3410001-004	FE	FALSE	0.675	5	0.139	no trend	91	0.42	10/31/1988	6/19/2014	38.611483	-121.410107
284	3410001-005	FE	FALSE	0.445	-7	-0.25	no trend	61.7	-0.76	10/31/1988	6/8/2011	38.623478	-121.396638
203	3410001-007	FE	FALSE	0.522	-9	-0.164	no trend	156.3	-0.64	7/24/1989	9/27/2017	38.610999	-121.363391
128	3410001-009	FE	FALSE	0.734	2	0.333	no trend	8.7	0.34	4/14/1987	3/3/2005	38.616331	-121.403703
212	3410001-010	FE	FALSE	0.326	15	0.227	no trend	203	0.98	4/14/1987	9/12/2017	38.608099	-121.408153
158	3410001-011	FE	FALSE	0.266	-13	-0.289	no trend	116.3	-1.11	10/31/1988	9/14/2017	38.619863	-121.396184
228	3410001-012	FE	FALSE	0.439	-29	-0.115	no trend	1307.7	-0.77	5/7/1987	2/6/2018	38.617662	-121.403695
82	3410001-013	FE	FALSE	0.068	-21	-0.467	no trend	120.3	-1.82	7/25/1989	9/26/2017	38.598939	-121.370714
146	3410001-014	FE	FALSE	0.396	-6	-0.286	no trend	34.7	-0.85	11/1/1988	9/14/2006	38.61171	-121.386048
260	3410001-015	FE	FALSE	0.441	-10	-0.182	no trend	136.7	-0.77	11/1/1988	9/19/2017	38.59781	-121.381308
191	3410001-016	FE	FALSE	0.205	-12	-0.333	no trend	75.3	-1.27	11/1/1988	9/4/2014	38.631327	-121.37485
124	3410001-017	FE	FALSE	0.67	-5	-0.139	no trend	88.3	-0.43	7/24/1989	8/27/2014	38.61981	-121.403732
211	3410001-018	FE	FALSE	0.324	-13	-0.236	no trend	148.3	-0.99	11/1/1988	9/19/2017	38.623854	-121.374359
209	3410001-019	FE	FALSE	0.436	-8	-0.178	no trend	80.7	-0.78	11/1/1988	9/25/2017	38.597831	-121.359623
114	3410001-020	FE	FALSE	1	1	0.028	no trend	47.7	0	1/27/1992	9/19/2017	38.618079	-121.359205
210	3410001-021	FE	FALSE	0.743	-5	-0.091	no trend	148.3	-0.33	4/14/1987	9/12/2017	38.615256	-121.419986
161	3410001-022	FE	FALSE	0.853	3	0.067	no trend	116.3	0.19	10/31/1988	9/11/2017	38.604549	-121.42274
64	3410001-024	FE	FALSE	0.149	-5	-0.833	no trend	7.7	-1.44	7/24/1989	2/19/2001	38.641255	-121.370271
222	3410001-025	FE	FALSE	1	1	0.022	no trend	95.7	0	4/13/1987	9/19/2017	38.60046	-121.359118
148	3410001-026	FE	FALSE	0.452	5	0.333	no trend	28.3	0.75	10/31/1988	2/23/2005	38.627091	-121.384097
113	3410001-027	FE	FALSE	0.602	-6	-0.167	no trend	92	-0.52	1/30/1992	9/27/2017	38.605146	-121.390988
244	3410001-028	FE	FALSE	1	1	0.022	no trend	125	0	7/24/1989	8/21/2014	38.63562	-121.381097
227	3410001-029	FE	FALSE	0.667	-4	-0.143	no trend	48.7	-0.43	1/30/1992	10/3/2017	38.630252	-121.397575
236	3410001-030	FE	FALSE	1	0	0	no trend	75.3	0	7/21/1989	9/26/2017	38.617802	-121.424022
81	3410001-032	FE	FALSE	0.458	-10	-0.182	no trend	147.3	-0.74	10/31/1988	9/19/2017	38.622918	-121.413817
104	3410001-033	FE	FALSE	0.803	3	0.107	no trend	64.3	0.25	7/21/1989	7/10/2014	38.601378	-121.424
173	3410001-034	FE	FALSE	0.522	-9	-0.164	no trend	156.3	-0.64	5/7/1987	9/11/2017	38.584674	-121.396539
169	3410001-035	FE	FALSE	0.436	8	0.178	no trend	80.7	0.78	7/9/1990	9/28/2017	38.594464	-121.351844
25	3410001-037	FE	FALSE	0.308	-4	-0.667	no trend	8.7	-1.02	4/13/1987	2/5/1998	38.578611	-121.366667
19	3410001-038	FE	TRUE	0.022	-34	-0.374	decreasing	208.7	-2.28	7/25/1989	6/9/2011	38.578371	-121.363395
20	3410001-039	FE	FALSE	1	-1	-0.067	no trend	19.7	0	10/31/1988	9/18/2006	38.591742	-121.346413
168	3410001-042	FE	FALSE	0.564	-7	-0.156	no trend	108.3	-0.58	11/1/1988	9/12/2017	38.628014	-121.358648
184	3410001-051	FE	FALSE	1	1	0.018	no trend	119.7	0	4/13/1987	9/11/2017	38.636187	-121.375067
111	3410001-052	FE	FALSE	1	1	0.022	no trend	95.7	0	4/13/1987	9/11/2017	38.625054	-121.362252
287	3410001-054	FE	FALSE	0.442	-9	-0.2	no trend	108.3	-0.77	2/11/1991	9/13/2017	38.582422	-121.408379
122	3410001-055	FE	FALSE	0.452	7	0.194	no trend	63.7	0.75	11/1/1988	12/13/2017	38.594474	-121.39864
26	3410001-056	FE	FALSE	0.452	7	0.194	no trend	63.7	0.75	11/1/1988	9/13/2017	38.578749	-121.41096
3	3410001-061	FE	FALSE	0.662	15	0.059	no trend	1024.3	0.44	5/7/1998	3/20/2018	38.582786	-121.338489
176	3410001-062	FE	FALSE	0.211	6	0.286	no trend	16	1.25	8/22/2000	9/5/2017	38.618056	-121.401944
12	3410001-064	FE	FALSE	0.211	6	0.286	no trend	16	1.25	4/23/2002	9/12/2017	38.584121	-121.353432
13	3410001-065	FE	FALSE	1	-1	-0.048	no trend	35.7	0	4/22/2002	9/21/2017	38.583196	-121.33679
4	3410001-066	FE	FALSE	1	1	0.048	no trend	27.7	0	4/23/2002	9/12/2017	38.582214	-121.338203
2	3410001-067	FE	FALSE	0.321	23	0.192	no trend	492.3	0.99	6/3/1999	1/8/2015	38.582481	-121.417169
225	3410001-069	FE	FALSE	0.505	14	0.133	no trend	380	0.67	7/27/1989	9/28/2017	38.580609	-121.384004
255	3410001-070	FE	FALSE	0.919	-2	-0.044	no trend	96.7	-0.1	2/12/1991	9/12/2017	38.576006	-121.403088
205	3410001-071	FE	TRUE	0	666	0.403	increasing	15307.3	5.37	4/17/2002	9/12/2019	38.63056	-121.397787
106	3410001-072	FE	FALSE	0.68	-8	-0.052	no trend	288.7	-0.41	4/17/2002	9/12/2017	38.61744	-121.411527
252	3410001-073	FE	FALSE	0.148	44	0.21	no trend	884	1.45	4/17/2002	7/25/2019	38.58058	-121.383962
58	3410001-076	FE	FALSE	0.927	2	0.036	no trend	120.7	0.09	6/5/1984	7/10/2019	38.644265	-121.362069
69	3410001-077	FE	FALSE	0.94	2	0.026	no trend	176.7	0.08	3/7/1984	7/10/2019	38.631522	-121.352911
86	3410001-078	FE	FALSE	0.747	-6	-0.066	no trend	240.7	-0.32	6/5/1984	7/9/2019	38.684818	-121.355931

259	3410001-079	FE	FALSE	0.454	-7	-0.25	no trend	64.3	-0.75	6/4/1984	7/24/2013	38.667577	-121.334161
110	3410001-080	FE	TRUE	0.019	-66	-0.314	decreasing	762	-2.35	6/4/1984	7/17/2019	38.672567	-121.331573
174	3410001-081	FE	FALSE	0.292	-18	-0.231	no trend	260	-1.05	6/5/1984	7/22/2019	38.683333	-121.333333
71	3410001-082	FE	FALSE	0.126	-27	-0.297	no trend	288.3	-1.53	6/4/1984	7/21/2016	38.648929	-121.338368
246	3410001-083	FE	FALSE	1	0	0	no trend	147.3	0	5/17/1984	7/9/2019	38.663692	-121.347786
239	3410001-085	FE	FALSE	0.407	-15	-0.165	no trend	285.7	-0.83	6/4/1984	7/17/2019	38.644208	-121.329841
49	3410001-087	FE	FALSE	0.94	2	0.026	no trend	176.7	0.08	6/5/1984	7/11/2019	38.645858	-121.392317
218	3410001-088	FE	FALSE	0.102	-17	-0.378	no trend	95.7	-1.64	5/17/1984	6/4/2014	38.668746	-121.361
89	3410001-089	FE	FALSE	0.499	-12	-0.132	no trend	264.7	-0.68	3/7/1984	7/9/2019	38.653579	-121.379692
132	3410001-092	FE	FALSE	0.549	52	0.06	no trend	7256.7	0.6	6/4/1984	7/24/2018	38.63889	-121.342759
185	3410001-094	FE	FALSE	0.457	-14	-0.154	no trend	305.3	-0.74	5/17/1984	7/10/2019	38.652299	-121.354305
196	3410001-095	FE	FALSE	1	0	0	no trend	43.3	0	5/17/1984	6/21/2007	38.658062	-121.356402
297	3410001-096	FE	FALSE	0.175	-22	-0.282	no trend	239.3	-1.36	6/30/1988	7/9/2019	38.689669	-121.360198
102	3410001-097	FE	FALSE	0.726	-6	-0.077	no trend	203.3	-0.35	12/13/1984	7/11/2019	38.694158	-121.360024
256	3410001-098	FE	FALSE	0.912	-3	-0.033	no trend	329	-0.11	5/9/1984	7/9/2019	38.700217	-121.351805
295	3410001-099	FE	FALSE	1	-1	-0.067	no trend	19.7	0	10/20/1988	6/21/2007	38.655401	-121.313482
46	3410001-101	FE	FALSE	0.833	-4	-0.051	no trend	203.3	-0.21	10/27/1988	7/7/2016	38.663926	-121.32579
231	3410001-102	FE	FALSE	0.207	-35	-0.205	no trend	725	-1.26	10/20/1988	7/15/2019	38.675049	-121.315501
101	3410001-103	FE	FALSE	1	-1	-0.048	no trend	27.7	0	10/25/1988	1/13/2014	38.651225	-121.32298
163	3410001-104	FE	FALSE	0.237	-14	-0.255	no trend	120.7	-1.18	2/26/1991	7/10/2019	38.710442	-121.331662
180	3410001-105	FE	FALSE	0.919	-2	-0.044	no trend	96.7	-0.1	10/12/1995	7/10/2019	38.710528	-121.331667
262	3410001-106	FE	FALSE	0.096	-7	-0.7	no trend	13	-1.66	6/28/2001	6/4/2014	38.710517	-121.331659
85	3410001-107	FE	FALSE	1	0	0	no trend	44.3	0	11/4/1996	7/14/2016	38.709903	-121.357066
127	3410001-111	FE	FALSE	0.919	-2	-0.044	no trend	96.7	-0.1	12/13/1995	7/11/2019	38.665363	-121.383099
254	3410001-127	FE	FALSE	0.288	-8	-0.381	no trend	43.3	-1.06	12/13/1995	7/29/2013	38.712268	-121.381099
283	3410001-128	FE	FALSE	1	1	0.067	no trend	19.7	0	12/13/1995	6/17/2010	38.709783	-121.374669
149	3410001-129	FE	FALSE	0.211	-6	-0.286	no trend	16	-1.25	12/13/1995	7/29/2013	38.710651	-121.387666
118	3410001-133	FE	FALSE	0.249	-13	-0.289	no trend	108.3	-1.15	7/9/1990	7/22/2019	38.682932	-121.376063
182	3410001-135	FE	FALSE	0.064	21	0.467	no trend	116.3	1.85	11/1/1988	11/7/2016	38.68794	-121.385107
99	3410001-136	FE	FALSE	0.497	16	0.133	no trend	488.7	0.68	5/7/1987	3/27/2018	38.685899	-121.372701
141	3410001-137	FE	FALSE	0.287	-11	-0.306	no trend	88.3	-1.06	11/1/1988	6/30/2014	38.692847	-121.375953
183	3410001-139	FE	FALSE	0.365	-12	-0.218	no trend	147.3	-0.91	5/17/1984	7/19/2016	38.69191	-121.364477
280	3410001-142	FE	FALSE	0.089	-17	-0.472	no trend	88.3	-1.7	7/20/1989	7/11/2016	38.686782	-121.392424
267	3410001-143	FE	FALSE	0.47	-3	-0.5	no trend	7.7	-0.72	4/13/1987	2/4/1998	38.701228	-121.371968
197	3410001-144	FE	FALSE	1	1	0.018	no trend	119.7	0	4/13/1987	7/23/2019	38.69798	-121.373877
213	3410001-145	FE	FALSE	0.242	5	0.333	no trend	11.7	1.17	4/22/2002	7/10/2019	38.67526	-121.379573
315	3410002-001	FE	FALSE	0.688	-6	-0.109	no trend	155.3	-0.4	2/20/1991	2/8/2017	38.583333	-121.383333
117	3410002-002	FE	FALSE	0.926	-2	-0.044	no trend	115.3	-0.09	7/17/1990	2/8/2017	38.583333	-121.366667
28	3410002-007	FE	FALSE	0.853	-3	-0.067	no trend	116.3	-0.19	8/2/1989	2/14/2017	38.566667	-121.4
10	3410002-012	FE	FALSE	0.67	-5	-0.139	no trend	88.3	-0.43	8/2/1989	5/8/2017	38.566667	-121.416667
17	3410002-013	FE	FALSE	0.602	-22	-0.073	no trend	1620.7	-0.52	7/17/1990	2/14/2017	38.583333	-121.416667
249	3410002-014	FE	FALSE	0.228	-12	-0.333	no trend	83.3	-1.2	7/17/1990	5/8/2017	38.583333	-121.366667
152	3410003-001	FE	TRUE	0.007	65	0.478	increasing	571.7	2.68	7/20/1989	2/6/2019	38.587545	-121.385145
153	3410003-002	FE	FALSE	0.124	26	0.333	no trend	264	1.54	4/11/1986	2/28/2017	38.582537	-121.383219
245	3410003-004	FE	FALSE	0.602	-6	-0.167	no trend	92	-0.52	7/20/1989	1/25/2005	38.587611	-121.392074
162	3410003-005	FE	TRUE	0.034	48	0.4	increasing	491.3	2.12	4/2/1987	7/11/2017	38.591017	-121.384139
251	3410003-006	FE	FALSE	0.694	6	0.109	no trend	161.3	0.39	4/2/1987	2/28/2017	38.59211	-121.387633
238	3410003-008	FE	FALSE	0.211	26	0.248	no trend	400	1.25	4/2/1987	2/28/2017	38.600074	-121.391973
74	3410004-001	FE	FALSE	0.36	10	0.222	no trend	96.7	0.92	10/24/1995	2/3/2004	38.645432	-121.313067
83	3410004-004	FE	FALSE	0.914	3	0.029	no trend	341	0.11	2/19/1991	1/28/2010	38.64988	-121.30798
175	3410004-005	FE	FALSE	0.466	8	0.222	no trend	92	0.73	11/9/1988	10/4/2001	38.633333	-121.35
172	3410004-006	FE	FALSE	0.245	-43	-0.17	no trend	1307.7	-1.16	8/1/1990	6/1/2017	38.622744	-121.335704
6	3410004-007	FE	TRUE	0.035	-19	-0.345	decreasing	73	-2.11	8/1/1990	10/23/2002	38.594673	-121.334606
150	3410004-009	FE	FALSE	0.912	4	0.016	no trend	734.7	0.11	2/19/1991	6/1/2017	38.619652	-121.333354
261	3410004-016	FE	FALSE	0.982	-2	-0.006	no trend	2014	-0.02	5/8/1987	6/1/2017	38.645576	-121.306819
248	3410004-020	FE	FALSE	0.094	27	0.297	no trend	241.7	1.67	4/25/2002	6/1/2017	38.641845	-121.315446
139	3410004-021	FE	FALSE	1	-1	-0.015	no trend	87.7	0	4/23/2002	6/1/2017	38.604804	-121.342252
290	3410006-001	FE	FALSE	0.631	-7	-0.127	no trend	156.3	-0.48	7/19/1989	5/30/2019	38.661305	-121.292607
207	3410006-007	FE	FALSE	0.734	-2	-0.333	no trend	8.7	-0.34	7/19/1989	1/21/1998	38.705556	-121.308333
198	3410006-008	FE	FALSE	1	-1	-0.048	no trend	27.7	0	12/6/1990	2/20/2013	38.679425	-121.289154
98	3410006-010	FE	FALSE	0.371	3	0.5	no trend	5	0.89	10/21/2004	6/6/2018	38.698638	-121.269673
130	3410007-001	FE	FALSE	1	-1	-0.1	no trend	15.7	0	4/10/1992	6/24/2010	38.613787	-121.367811
229	3410007-002	FE	FALSE	0.586	12	0.114	no trend	407.3	0.55	11/7/1988	8/7/2019	38.613607	-121.371676
216	3410007-003	FE	FALSE	0.917	2	0.056	no trend	92	0.1	7/19/1989	12/11/2018	38.606352	-121.369707
269	3410007-004	FE	FALSE	1	0	0	no trend	407.3	0	7/19/1989	8/6/2019	38.607768	-121.374083
77	3410007-005	FE	FALSE	0.214	26	0.248	no trend	404.7	1.24	11/7/1988	8/6/2019	38.61458	-121.378552
142	3410007-006	FE	TRUE	0.012	-29	-0.644	decreasing	125	-2.5	7/19/1989	1/20/2012	38.60731	-121.364767
195	3410007-007	FE	FALSE	1	-1	-0.028	no trend	91	0	7/19/1989	8/6/2019	38.606531	-121.380719
253	3410007-008	FE	TRUE	0.032	16	0.571	increasing	48.7	2.15	1/26/1993	8/13/2019	38.613172	-121.380739
166	3410009-001	FE	FALSE	1	-1	-0.1	no trend	13	0	2/28/1991	6/16/2004	38.643048	-121.268528
100	3410009-003	FE	FALSE	1	-1	-0.167	no trend	7.7	0	11/9/1988	2/8/2000	38.666667	-121.216667

105	3410009-004	FE	FALSE	0.3	-10	-0.278	no trend	75.3	-1.04	8/2/1990	6/6/2006	38.651282	-121.255173
78	3410009-005	FE	FALSE	1	-1	-0.067	no trend	19.7	0	11/9/1988	6/16/2004	38.650805	-121.286999
201	3410009-006	FE	FALSE	0.161	-18	-0.273	no trend	147.3	-1.4	7/19/1989	6/14/2012	38.642768	-121.278261
234	3410009-007	FE	FALSE	0.175	-8	-0.222	no trend	26.7	-1.36	7/19/1989	6/14/2012	38.651297	-121.296666
217	3410009-008	FE	FALSE	1	-1	-0.048	no trend	27.7	0	8/16/1990	6/6/2006	38.662066	-121.265396
164	3410009-010	FE	TRUE	0.019	-24	-0.533	decreasing	96.7	-2.34	11/7/1991	6/14/2012	38.659628	-121.255556
93	3410013-001	FE	FALSE	0.943	2	0.03	no trend	194	0.07	10/7/1992	8/13/2018	38.694922	-121.332628
159	3410013-002	FE	FALSE	0.407	-13	-0.197	no trend	209	-0.83	2/18/1992	8/13/2018	38.69054	-121.34151
51	3410013-003	FE	FALSE	0.622	10	0.11	no trend	332.7	0.49	11/2/1988	8/29/2018	38.683982	-121.31348
240	3410013-004	FE	FALSE	0.841	5	0.048	no trend	397.7	0.2	4/15/1987	8/7/2018	38.699328	-121.295627
178	3410013-005	FE	FALSE	0.954	-2	-0.022	no trend	303.3	-0.06	4/15/1987	8/7/2018	38.669042	-121.293798
63	3410013-006	FE	FALSE	0.852	-4	-0.051	no trend	260	-0.19	2/11/1992	8/8/2018	38.685052	-121.305855
156	3410013-007	FE	FALSE	0.086	50	0.292	no trend	813.3	1.72	4/15/1987	11/16/2016	38.691478	-121.336784
270	3410013-008	FE	FALSE	0.804	6	0.057	no trend	404.7	0.25	11/2/1988	8/29/2018	38.673506	-121.340002
224	3410013-009	FE	FALSE	0.725	-6	-0.091	no trend	202	-0.35	4/15/1987	8/7/2018	38.695662	-121.29509
92	3410013-010	FE	FALSE	0.675	13	0.076	no trend	817	0.42	4/14/1989	8/15/2018	38.670117	-121.341406
237	3410013-012	FE	FALSE	0.66	-9	-0.099	no trend	331.7	-0.44	7/2/1990	8/13/2018	38.66565	-121.302524
223	3410013-013	FE	FALSE	0.161	38	0.248	no trend	696	1.4	4/15/1987	8/13/2018	38.678824	-121.304628
144	3410013-014	FE	FALSE	0.85	-4	-0.051	no trend	250	-0.19	11/2/1988	8/8/2018	38.668822	-121.304482
112	3410013-015	FE	FALSE	0.296	15	0.227	no trend	179.7	1.04	2/18/1992	8/6/2018	38.70124	-121.345319
233	3410013-016	FE	FALSE	0.374	13	0.197	no trend	182.3	0.89	2/11/1993	8/13/2018	38.709473	-121.292244
265	3410013-017	FE	FALSE	0.751	3	0.143	no trend	39.7	0.32	2/11/1992	8/24/2006	38.712243	-121.303547
247	3410013-019	FE	FALSE	0.738	-7	-0.077	no trend	323	-0.33	4/15/1987	8/6/2018	38.700287	-121.330955
226	3410013-020	FE	TRUE	0.033	-18	-0.643	decreasing	63.3	-2.14	11/2/1988	8/24/2006	38.716217	-121.294262
88	3410013-021	FE	FALSE	0.954	-2	-0.022	no trend	303.3	-0.06	11/2/1988	8/8/2018	38.683333	-121.31
232	3410013-022	FE	FALSE	0.336	-10	-0.278	no trend	87.3	-0.96	2/18/1992	9/11/2012	38.7124	-121.306829
189	3410013-023	FE	FALSE	0.349	18	0.198	no trend	330	0.94	7/28/1989	8/7/2018	38.695536	-121.313454
66	3410013-024	FE	FALSE	0.729	6	0.091	no trend	208	0.35	2/11/1992	8/7/2018	38.680539	-121.31067
220	3410013-025	FE	FALSE	0.363	-25	-0.163	no trend	697	-0.91	8/15/1989	8/13/2018	38.718426	-121.313299
188	3410013-026	FE	FALSE	1	-1	-0.011	no trend	304.3	0	4/15/1987	8/6/2018	38.701667	-121.344722
119	3410013-027	FE	FALSE	0.938	-2	-0.03	no trend	167.3	-0.08	2/18/1992	9/18/2012	38.709413	-121.317252
165	3410013-028	FE	FALSE	0.369	8	0.286	no trend	60.7	0.9	4/21/1997	8/13/2018	38.698857	-121.32618
125	3410016-001	FE	FALSE	1	-1	-0.167	no trend	7.7	0	8/2/1990	12/21/2004	38.686538	-121.219546
147	3410016-002	FE	FALSE	1	1	0.1	no trend	13	0	4/18/1991	1/17/2013	38.694541	-121.210813
126	3410018-005	FE	FALSE	0.13	-7	-0.7	no trend	15.7	-1.52	7/28/1989	3/5/2002	38.721801	-121.46774
24	3410020-015	FE	FALSE	0.618	5	0.179	no trend	64.3	0.5	1/17/1992	4/3/2017	38.6125	-121.479167
11	3410020-016	FE	FALSE	0.902	2	0.071	no trend	65.3	0.12	1/17/1992	1/20/2015	38.616667	-121.479167
293	3410020-017	FE	FALSE	1	0	0	no trend	121.3	0	11/18/1988	8/24/2017	38.62266	-121.477813
84	3410020-018	FE	FALSE	0.564	-7	-0.156	no trend	108.3	-0.58	1/17/1992	5/8/2017	38.627831	-121.477227
292	3410020-021	FE	FALSE	0.452	-5	-0.333	no trend	28.3	-0.75	1/21/1992	10/12/2011	38.607083	-121.454779
97	3410020-022	FE	FALSE	0.65	6	0.133	no trend	121.3	0.45	11/18/1988	3/20/2017	38.607305	-121.443097
136	3410020-023	FE	FALSE	0.174	-12	-0.429	no trend	65.3	-1.36	1/21/1992	3/7/2017	38.604956	-121.439486
314	3410020-024	FE	FALSE	0.067	20	0.444	no trend	107.3	1.83	11/18/1988	10/10/2011	38.612801	-121.450505
129	3410020-025	FE	FALSE	0.089	6	1	no trend	8.7	1.7	1/21/1992	10/9/2008	38.612294	-121.440456
215	3410020-027	FE	FALSE	0.578	6	0.133	no trend	80.7	0.56	1/22/1992	5/8/2017	38.620988	-121.443553
279	3410020-028	FE	FALSE	0.697	6	0.091	no trend	164.7	0.39	11/18/1988	5/8/2017	38.62044	-121.432285
108	3410020-029	FE	FALSE	0.638	4	0.19	no trend	40.7	0.47	1/17/1992	3/20/2017	38.618056	-121.468056
107	3410020-030	FE	FALSE	0.136	-15	-0.417	no trend	88.3	-1.49	1/17/1992	5/8/2017	38.625119	-121.462605
59	3410020-032	FE	FALSE	0.295	-41	-0.149	no trend	1460.3	-1.05	1/16/1991	8/24/2017	38.628503	-121.43627
55	3410020-033	FE	FALSE	0.894	-2	-0.071	no trend	56.7	-0.13	11/16/1988	10/10/2011	38.626808	-121.42959
171	3410020-034	FE	FALSE	0.365	10	0.182	no trend	98.7	0.91	1/16/1991	2/27/2018	38.638412	-121.446721
73	3410020-035	FE	FALSE	0.365	10	0.182	no trend	98.7	0.91	1/16/1991	2/27/2018	38.639934	-121.427293
133	3410020-037	FE	FALSE	0.926	-2	-0.044	no trend	115.3	-0.09	1/16/1991	5/8/2017	38.651207	-121.469509
264	3410020-038	FE	FALSE	0.546	14	0.103	no trend	463.3	0.6	1/16/1991	7/8/2019	38.647475	-121.459256
50	3410020-039	FE	FALSE	1	1	0.1	no trend	13	0	1/22/1992	10/8/2003	38.627595	-121.432917
56	3410020-040	FE	FALSE	0.934	-2	-0.036	no trend	147.3	-0.08	10/22/1990	5/9/2017	38.629597	-121.420726
278	3410020-041	FE	FALSE	1	-1	-0.015	no trend	146.3	0	1/16/1991	5/9/2017	38.641387	-121.435795
22	3410020-042	FE	TRUE	0.027	-32	-0.485	decreasing	196	-2.21	1/21/1992	7/8/2019	38.596923	-121.458973
294	3410020-044	FE	FALSE	0.144	12	0.429	no trend	56.7	1.46	10/16/1990	10/10/2011	38.613996	-121.456155
194	3410020-045	FE	FALSE	0.87	-3	-0.055	no trend	148.3	-0.16	10/19/1990	5/9/2017	38.622276	-121.446858
134	3410020-046	FE	FALSE	1	1	0.028	no trend	47.7	0	1/22/1992	9/22/2014	38.623116	-121.427024
157	3410020-050	FE	FALSE	0.499	8	0.178	no trend	107.3	0.68	1/16/1991	3/25/2014	38.668053	-121.438012
42	3410020-051	FE	FALSE	0.927	2	0.036	no trend	120.7	0.09	1/16/1991	2/27/2018	38.634413	-121.412516
296	3410020-052	FE	FALSE	0.564	-7	-0.156	no trend	108.3	-0.58	3/8/1993	5/9/2017	38.599341	-121.445804
214	3410020-054	FE	FALSE	0.146	-18	-0.327	no trend	136.7	-1.45	1/21/1992	8/24/2017	38.596324	-121.427308
33	3410020-055	FE	FALSE	0.071	-23	-0.418	no trend	148.3	-1.81	1/17/1992	5/9/2017	38.617636	-121.469304
91	3410020-056	FE	FALSE	0.689	10	0.048	no trend	507.3	0.4	1/12/1994	5/9/2017	38.654657	-121.448564
291	3410020-057	FE	FALSE	0.669	5	0.076	no trend	87.7	0.43	1/18/1995	12/19/2018	38.658482	-121.466415
30	3410026-001	FE	FALSE	0.089	6	1	no trend	8.7	1.7	2/21/1991	5/31/2012	38.58961	-121.429343
7	3410026-002	FE	FALSE	1	-1	-0.1	no trend	13	0	2/21/1991	5/3/2018	38.588266	-121.423478
31	3410026-003	FE	FALSE	0.289	-4	-0.4	no trend	8	-1.06	2/21/1991	5/3/2018	38.593617	-121.439154

18	3410026-004	FE	FALSE	0.13	-7	-0.7	no trend	15.7	-1.52	2/21/1991	5/3/2018	38.593339	-121.432431
206	3410031-001	FE	FALSE	0.055	60	0.316	no trend	945.3	1.92	3/24/1988	5/16/2019	38.720833	-121.358333
190	3410031-002	FE	FALSE	0.731	5	0.091	no trend	135.7	0.34	9/10/1993	8/8/2018	38.717222	-121.3575
94	3410031-003	FE	TRUE	0.048	62	0.326	increasing	950	1.98	4/14/1989	8/30/2018	38.7	-121.383333
221	3410031-004	FE	FALSE	0.052	68	0.294	no trend	1188.7	1.94	10/29/1987	8/14/2018	38.718056	-121.382222
61	3410031-005	FE	FALSE	0.241	-16	-0.291	no trend	164	-1.17	2/26/1992	8/5/2015	38.716667	-121.4
160	3410031-006	FE	FALSE	0.781	-6	-0.066	no trend	324	-0.28	11/2/1988	8/14/2018	38.708333	-121.383611
2073	3410031-007	FE	FALSE	0.458	19	0.14	no trend	588.3	0.74	11/2/1988	8/9/2018	38.733333	-121.35
2056	3410031-008	FE	FALSE	0.404	13	0.197	no trend	207	0.83	10/7/1992	8/9/2018	38.733333	-121.35
208	3410031-009	FE	FALSE	0.62	7	0.127	no trend	146.3	0.5	1/15/1992	8/7/2018	38.715278	-121.378056
72	3410031-010	FE	TRUE	0.026	28	0.509	increasing	147.3	2.22	8/29/1995	8/21/2018	38.705	-121.365556
289	3410031-011	FE	FALSE	0.082	141	0.172	no trend	6493	1.74	6/21/1990	8/7/2018	38.726944	-121.3825
135	3410031-012	FE	FALSE	0.783	6	0.066	no trend	330	0.28	6/12/1992	8/7/2018	38.721111	-121.368611
45	3410031-013	FE	FALSE	0.31	19	0.209	no trend	315	1.01	11/2/1988	8/14/2018	38.711667	-121.413889
54	3410031-014	FE	FALSE	0.115	23	0.348	no trend	195	1.58	4/15/1987	8/14/2018	38.716111	-121.408889
95	3410031-015	FE	FALSE	0.089	6	1	no trend	8.7	1.7	2/11/1993	8/14/2018	38.716667	-121.416667
241	3410031-016	FE	FALSE	1	1	0.022	no trend	106.3	0	7/16/1996	8/8/2018	38.724444	-121.336111
80	3410031-017	FE	FALSE	0.1	16	0.444	no trend	83.3	1.64	4/30/1998	8/8/2018	38.723056	-121.349722
257	3410031-018	FE	TRUE	0.026	28	0.509	increasing	147.3	2.22	1/9/1996	8/7/2018	38.716389	-121.371944
288	3410045-001	FE	FALSE	0.95	2	0.026	no trend	250	0.06	11/3/1988	8/7/2018	38.586137	-121.411513
138	3410045-002	FE	FALSE	0.344	11	0.244	no trend	111.7	0.95	2/25/1992	8/7/2018	38.583085	-121.413054
116	3410045-003	FE	FALSE	1	-1	-0.018	no trend	158.3	0	2/25/1992	8/7/2018	38.594423	-121.417465
243	3410045-004	FE	FALSE	0.53	-16	-0.118	no trend	570.7	-0.63	4/20/1987	7/12/2012	38.592566	-121.407256
96	3410045-005	FE	FALSE	0.943	2	0.03	no trend	194	0.07	11/2/1988	8/7/2018	38.600025	-121.410183
2907	5105004-001	FE	FALSE	0.902	2	0.071	no trend	65.3	0.12	11/29/2000	10/16/2013	38.777769	-121.52437
1859	USGS-383746121291101	FE	FALSE	0.064	-21	-0.467	no trend	116.3	-1.85	8/4/1998	9/4/2012	38.6292139	-121.4877028
1860	USGS-384145121184101	FE	FALSE	0.178	-16	-0.356	no trend	124	-1.35	8/17/1998	9/4/2012	38.6964	-121.3120389
1868	USGS-384330121293901	FE	FALSE	0.917	2	0.056	no trend	92	0.1	8/11/1997	8/16/2012	38.7251167	-121.4954417
2806	USGS-384413121163801	FE	FALSE	0.734	-2	-0.333	no trend	8.7	-0.34	9/24/1982	3/10/2014	38.7369444	-121.2772222

# Manganese

Local_ID	Well_Info_ID	chemical	h	p	s	tau	trend	var_s	z	datemin	datemax	Latitude_NAD83	Longitude_NAD83
2083	11N06E17D001M	MN	FALSE	1	0	0	no trend	1625.3	0	5/5/2004	3/26/2008	38.8064	-121.3353
2081	11N06E17D002M	MN	FALSE	1	0	0	no trend	15158	0	5/6/2004	3/26/2008	38.8027	-121.3384
2080	11N06E17D003M	MN	FALSE	1	0	0	no trend	817	0	5/5/2004	3/26/2008	38.8059	-121.3358
2082	11N06E17E001M	MN	FALSE	1	0	0	no trend	1625.3	0	5/5/2004	3/26/2008	38.8058	-121.3354
2059	3100538-001	MN	FALSE	0.613	3	0.3	no trend	15.7	0.51	8/19/1999	3/23/2018	38.7505	-121.321972
2060	3104508-001	MN	FALSE	1	1	0.1	no trend	13	0	2/19/2004	4/20/2017	38.729952	-121.321616
2071	3110008-006	MN	FALSE	0.652	3	0.2	no trend	19.7	0.45	10/31/1995	8/25/2016	38.736633	-121.277875
2066	3110008-007	MN	FALSE	0.613	-3	-0.3	no trend	15.7	-0.51	10/31/1995	8/25/2016	38.726493	-121.258205
2050	3110008-008	MN	FALSE	0.411	-5	-0.333	no trend	23.7	-0.82	10/22/2002	8/23/2018	38.805938	-121.33588
2064	3110025-005	MN	FALSE	0.516	-15	-0.11	no trend	464.3	-0.65	7/26/1989	9/12/2019	38.818889	-121.31
2063	3110040-001	MN	TRUE	0.029	-28	-0.509	decreasing	152.7	-2.19	9/27/1988	7/9/2002	38.75	-121.34722
2067	3110040-002	MN	FALSE	0.078	-17	-0.472	no trend	82.3	-1.76	8/31/1989	7/9/2002	38.75	-121.34444
2054	3110048-001	MN	FALSE	0.734	2	0.333	no trend	8.7	0.34	2/5/2003	4/9/2018	38.983062	-121.375659
2058	3110048-002	MN	FALSE	0.734	2	0.333	no trend	8.7	0.34	2/5/2003	4/9/2018	38.980075	-121.369185
145	3400173-002	MN	FALSE	1	-1	-0.167	no trend	7.7	0	5/24/2001	2/14/2017	38.640638	-121.483861
272	3400191-001	MN	FALSE	1	0	0	no trend	8.7	0	8/17/2001	3/23/2018	38.65525	-121.379888
193	3410001-001	MN	FALSE	0.482	-10	-0.182	no trend	164	-0.7	4/14/1987	9/5/2017	38.606839	-121.3982
242	3410001-002	MN	FALSE	0.436	-11	-0.2	no trend	165	-0.78	4/14/1987	10/18/2017	38.59783	-121.398024
258	3410001-004	MN	FALSE	0.377	-8	-0.222	no trend	62.7	-0.88	10/31/1988	6/19/2014	38.611483	-121.410107
284	3410001-005	MN	FALSE	0.352	-8	-0.286	no trend	56.7	-0.93	10/31/1988	6/8/2011	38.623478	-121.396638
203	3410001-007	MN	FALSE	0.669	-6	-0.109	no trend	136.7	-0.43	7/24/1989	9/27/2017	38.610999	-121.363391
128	3410001-009	MN	FALSE	1	0	0	no trend	8.7	0	4/14/1987	3/3/2005	38.616331	-121.403703
212	3410001-010	MN	FALSE	0.374	-13	-0.197	no trend	182.3	-0.89	4/14/1987	9/12/2017	38.608099	-121.408153
158	3410001-011	MN	FALSE	0.263	-12	-0.267	no trend	96.7	-1.12	10/31/1988	9/14/2017	38.619863	-121.396184
228	3410001-012	MN	FALSE	0.886	-3	-0.045	no trend	195	-0.14	5/7/1987	12/12/2017	38.617662	-121.403695
82	3410001-013	MN	FALSE	0.564	-7	-0.156	no trend	108.3	-0.58	7/25/1989	9/26/2017	38.598939	-121.370714
146	3410001-014	MN	FALSE	0.396	-6	-0.286	no trend	34.7	-0.85	11/1/1988	9/14/2006	38.61171	-121.386048
260	3410001-015	MN	FALSE	0.391	-11	-0.2	no trend	135.7	-0.86	11/1/1988	9/19/2017	38.59781	-121.381308
191	3410001-016	MN	FALSE	1	-1	-0.028	no trend	47.7	0	11/1/1988	9/4/2014	38.631327	-121.37485
124	3410001-017	MN	FALSE	0.316	-9	-0.25	no trend	63.7	-1	7/24/1989	8/27/2014	38.61981	-121.403732
211	3410001-018	MN	FALSE	0.436	8	0.178	no trend	80.7	0.78	11/1/1988	9/19/2017	38.623854	-121.374359
209	3410001-019	MN	FALSE	0.578	6	0.133	no trend	80.7	0.56	11/1/1988	9/25/2017	38.597831	-121.359623
114	3410001-020	MN	FALSE	1	1	0.028	no trend	47.7	0	1/27/1992	9/19/2017	38.618079	-121.359205
210	3410001-021	MN	FALSE	1	1	0.018	no trend	119.7	0	4/14/1987	9/12/2017	38.615256	-121.419986
161	3410001-022	MN	FALSE	0.436	8	0.178	no trend	80.7	0.78	10/31/1988	9/11/2017	38.604549	-121.42274
64	3410001-024	MN	FALSE	1	-1	-0.167	no trend	7.7	0	7/24/1989	2/19/2001	38.641255	-121.370271
222	3410001-025	MN	FALSE	1	1	0.022	no trend	95.7	0	4/13/1987	9/19/2017	38.60046	-121.359118
148	3410001-026	MN	FALSE	0.848	2	0.133	no trend	27.3	0.19	10/31/1988	2/23/2005	38.627091	-121.384097
113	3410001-027	MN	FALSE	0.817	-3	-0.083	no trend	74.3	-0.23	1/30/1992	9/27/2017	38.605146	-121.390988
244	3410001-028	MN	TRUE	0.021	-25	-0.556	decreasing	108.3	-2.31	7/24/1989	8/21/2014	38.63562	-121.381097
227	3410001-029	MN	FALSE	0.474	-6	-0.214	no trend	48.7	-0.72	1/30/1992	10/3/2017	38.630252	-121.397575
236	3410001-030	MN	FALSE	1	0	0	no trend	75.3	0	7/21/1989	9/26/2017	38.617802	-121.424022
81	3410001-032	MN	FALSE	0.321	-13	-0.236	no trend	146.3	-0.99	10/31/1988	9/19/2017	38.622918	-121.413817
104	3410001-033	MN	FALSE	1	-1	-0.048	no trend	27.7	0	7/21/1989	7/10/2014	38.601378	-121.424
173	3410001-034	MN	FALSE	0.873	3	0.055	no trend	156.3	0.16	5/7/1987	9/11/2017	38.584674	-121.396539
169	3410001-035	MN	FALSE	0.436	8	0.178	no trend	80.7	0.78	7/9/1990	9/28/2017	38.594464	-121.351844
25	3410001-037	MN	FALSE	0.308	-4	-0.667	no trend	8.7	-1.02	4/13/1987	2/5/1998	38.578611	-121.366667
19	3410001-038	MN	FALSE	0.084	-24	-0.308	no trend	176.7	-1.73	7/25/1989	6/9/2011	38.578371	-121.363395
20	3410001-039	MN	FALSE	1	-1	-0.067	no trend	19.7	0	10/31/1988	9/18/2006	38.591742	-121.346413
168	3410001-042	MN	FALSE	0.436	8	0.178	no trend	80.7	0.78	11/1/1988	9/12/2017	38.628014	-121.358648
184	3410001-051	MN	FALSE	1	1	0.018	no trend	119.7	0	4/13/1987	9/11/2017	38.636187	-121.375067
111	3410001-052	MN	FALSE	1	1	0.022	no trend	95.7	0	4/13/1987	9/11/2017	38.625054	-121.362252
287	3410001-054	MN	TRUE	0.002	-196	-0.395	decreasing	3794	-3.17	2/11/1991	8/8/2019	38.582422	-121.408379
122	3410001-055	MN	FALSE	0.324	-10	-0.278	no trend	83.3	-0.99	11/1/1988	12/13/2017	38.594474	-121.39864
26	3410001-056	MN	FALSE	0.443	-8	-0.222	no trend	83.3	-0.77	11/1/1988	9/13/2017	38.578749	-121.41096
3	3410001-061	MN	FALSE	0.937	2	0.036	no trend	161.3	0.08	5/7/1998	9/26/2017	38.582786	-121.338489
176	3410001-062	MN	FALSE	0.211	6	0.286	no trend	16	1.25	8/22/2000	9/5/2017	38.618056	-121.401944
12	3410001-064	MN	FALSE	0.211	6	0.286	no trend	16	1.25	4/23/2002	9/12/2017	38.584121	-121.353432
13	3410001-065	MN	FALSE	0.61	-4	-0.19	no trend	34.7	-0.51	4/22/2002	9/21/2017	38.583196	-121.33679
4	3410001-066	MN	FALSE	0.211	6	0.286	no trend	16	1.25	4/23/2002	9/12/2017	38.582214	-121.338203
2	3410001-067	MN	FALSE	0.685	10	0.083	no trend	493.3	0.41	6/3/1999	1/8/2015	38.582481	-121.417169
225	3410001-069	MN	FALSE	0.089	-37	-0.308	no trend	449	-1.7	7/27/1989	9/28/2017	38.580609	-121.384004
255	3410001-070	MN	FALSE	1	1	0.022	no trend	59.7	0	2/12/1991	9/12/2017	38.576006	-121.403088
205	3410001-071	MN	FALSE	0.979	5	0.003	no trend	22174	0.03	4/17/2002	9/12/2019	38.63056	-121.397787
106	3410001-072	MN	FALSE	0.123	17	0.111	no trend	107.7	1.54	4/17/2002	9/12/2017	38.61744	-121.411527
252	3410001-073	MN	FALSE	0.975	2	0.01	no trend	1031.3	0.03	4/17/2002	7/25/2019	38.58058	-121.383962
58	3410001-076	MN	FALSE	0.927	2	0.036	no trend	120.7	0.09	6/5/1984	7/10/2019	38.644265	-121.362069
69	3410001-077	MN	FALSE	1	1	0.013	no trend	175.7	0	3/7/1984	7/10/2019	38.631522	-121.352911
86	3410001-078	MN	FALSE	0.747	-6	-0.066	no trend	240.7	-0.32	6/5/1984	7/9/2019	38.684818	-121.355931
259	3410001-079	MN	TRUE	0.042	-17	-0.607	decreasing	61.7	-2.04	6/4/1984	7/24/2013	38.667577	-121.334161
110	3410001-080	MN	FALSE	0.974	2	0.01	no trend	930.7	0.03	6/4/1984	7/17/2019	38.672567	-121.331573
174	3410001-081	MN	FALSE	1	-1	-0.013	no trend	224.3	0	6/5/1984	7/22/2019	38.683333	-121.333333
71	3410001-082	MN	TRUE	0.006	-48	-0.527	decreasing	289.3	-2.76	6/4/1984	7/21/2016	38.648929	-121.338368
246	3410001-083	MN	FALSE	0.934	2	0.03	no trend	147.3	0.08	5/17/1984	7/9/2019	38.663692	-121.347786

239	3410001-085	MN	FALSE	0.464	-13	-0.143	no trend	268.3	-0.73	6/4/1984	7/17/2019	38.644208	-121.329841
49	3410001-087	MN	FALSE	0.94	2	0.026	no trend	176.7	0.08	6/5/1984	7/11/2019	38.645858	-121.392317
218	3410001-088	MN	FALSE	1	-1	-0.022	no trend	95.7	0	5/17/1984	6/4/2014	38.668746	-121.361
89	3410001-089	MN	FALSE	0.385	-15	-0.165	no trend	259.7	-0.87	3/7/1984	7/9/2019	38.653579	-121.379692
132	3410001-092	MN	TRUE	0.039	-324	-0.183	decreasing	24491	-2.06	6/4/1984	7/24/2018	38.63889	-121.342759
185	3410001-094	MN	FALSE	0.94	2	0.026	no trend	176.7	0.08	5/17/1984	7/10/2019	38.652299	-121.354305
196	3410001-095	MN	FALSE	1	1	0.048	no trend	44.3	0	5/17/1984	6/21/2007	38.658062	-121.356402
297	3410001-096	MN	FALSE	0.671	-7	-0.09	no trend	199.7	-0.42	6/30/1988	7/9/2019	38.689669	-121.360198
102	3410001-097	MN	FALSE	0.404	11	0.141	no trend	143.7	0.83	12/13/1984	7/11/2019	38.694158	-121.360024
256	3410001-098	MN	FALSE	0.651	-10	-0.095	no trend	396	-0.45	5/9/1984	7/9/2019	38.700217	-121.351805
295	3410001-099	MN	FALSE	0.462	-4	-0.4	no trend	16.7	-0.73	10/20/1988	6/21/2007	38.655401	-121.313482
46	3410001-101	MN	FALSE	0.219	-21	-0.269	no trend	265	-1.23	10/27/1988	7/7/2016	38.663926	-121.32579
231	3410001-102	MN	TRUE	0.01	-38	-0.576	decreasing	204	-2.59	10/20/1988	7/15/2019	38.675049	-121.315501
101	3410001-103	MN	FALSE	0.875	2	0.095	no trend	40.7	0.16	10/25/1988	1/13/2014	38.651225	-121.32298
163	3410001-104	MN	FALSE	0.423	9	0.164	no trend	99.7	0.8	2/26/1991	7/10/2019	38.710442	-121.331662
180	3410001-105	MN	FALSE	0.505	23	0.11	no trend	1087	0.67	10/12/1995	7/10/2019	38.710528	-121.331667
262	3410001-106	MN	FALSE	1	0	0	no trend	16.7	0	6/28/2001	6/4/2014	38.710517	-121.331659
85	3410001-107	MN	FALSE	1	0	0	no trend	44.3	0	11/4/1996	7/14/2016	38.709903	-121.357066
127	3410001-111	MN	FALSE	1	1	0.028	no trend	47.7	0	12/13/1995	7/11/2019	38.665363	-121.383099
254	3410001-127	MN	FALSE	0.314	-6	-0.4	no trend	24.7	-1.01	12/13/1995	7/29/2013	38.712268	-121.381099
283	3410001-128	MN	FALSE	0.289	-4	-0.4	no trend	8	-1.06	12/13/1995	6/17/2010	38.709783	-121.374669
149	3410001-129	MN	FALSE	0.242	-5	-0.333	no trend	11.7	-1.17	12/13/1995	7/29/2013	38.710651	-121.387666
118	3410001-133	MN	FALSE	1	0	0	no trend	96.7	0	7/9/1990	7/22/2019	38.682932	-121.376063
182	3410001-135	MN	FALSE	0.694	13	0.062	no trend	931.7	0.39	11/1/1988	3/13/2018	38.68794	-121.385107
99	3410001-136	MN	FALSE	0.486	16	0.133	no trend	464	0.7	5/7/1987	3/27/2018	38.685899	-121.372701
141	3410001-137	MN	FALSE	1	-1	-0.036	no trend	37	0	11/1/1988	6/30/2014	38.692847	-121.375953
183	3410001-139	MN	FALSE	0.397	-11	-0.2	no trend	139.7	-0.85	5/17/1984	7/19/2016	38.69191	-121.364477
280	3410001-142	MN	FALSE	1	-1	-0.028	no trend	47.7	0	7/20/1989	7/11/2016	38.686782	-121.392424
267	3410001-143	MN	FALSE	0.47	-3	-0.5	no trend	7.7	-0.72	4/13/1987	2/4/1998	38.701228	-121.371968
197	3410001-144	MN	FALSE	0.805	4	0.073	no trend	147.3	0.25	4/13/1987	7/23/2019	38.69798	-121.373877
213	3410001-145	MN	FALSE	0.242	5	0.333	no trend	11.7	1.17	4/22/2002	7/10/2019	38.67526	-121.379573
315	3410002-001	MN	FALSE	0.606	7	0.127	no trend	135.7	0.52	2/20/1991	2/8/2017	38.583333	-121.383333
117	3410002-002	MN	FALSE	0.926	-2	-0.044	no trend	115.3	-0.09	7/17/1990	2/8/2017	38.583333	-121.366667
28	3410002-007	MN	FALSE	0.711	-5	-0.111	no trend	116.3	-0.37	8/2/1989	2/14/2017	38.566667	-121.4
10	3410002-012	MN	FALSE	0.834	3	0.083	no trend	91	0.21	8/2/1989	5/8/2017	38.566667	-121.416667
17	3410002-013	MN	FALSE	0.941	2	0.03	no trend	183.3	0.07	7/17/1990	2/14/2017	38.583333	-121.416667
249	3410002-014	MN	FALSE	0.913	-2	-0.056	no trend	83.3	-0.11	7/17/1990	5/8/2017	38.583333	-121.366667
152	3410003-001	MN	FALSE	0.103	30	0.33	no trend	316	1.63	7/20/1989	2/6/2019	38.587545	-121.385145
153	3410003-002	MN	FALSE	0.056	32	0.41	no trend	264	1.91	4/11/1986	2/28/2017	38.582537	-121.383219
245	3410003-004	MN	FALSE	1	1	0.048	no trend	44.3	0	7/20/1989	1/25/2005	38.587611	-121.392074
162	3410003-005	MN	FALSE	0.126	23	0.348	no trend	207	1.53	4/2/1987	7/11/2017	38.591017	-121.384139
251	3410003-006	MN	TRUE	0.04	27	0.491	increasing	160.3	2.05	4/2/1987	2/28/2017	38.59211	-121.387633
238	3410003-008	MN	FALSE	0.346	20	0.19	no trend	407.3	0.94	4/2/1987	2/28/2017	38.600074	-121.391973
74	3410004-001	MN	TRUE	0.036	-24	-0.436	decreasing	120.7	-2.09	10/24/1995	2/3/2004	38.645432	-121.313067
83	3410004-004	MN	FALSE	0.424	17	0.162	no trend	399.7	0.8	2/19/1991	1/28/2010	38.64988	-121.30798
175	3410004-005	MN	FALSE	0.754	4	0.111	no trend	92	0.31	11/9/1988	10/4/2001	38.633333	-121.35
172	3410004-006	MN	TRUE	0	-152	-0.551	decreasing	1596	-3.78	5/8/1987	6/1/2017	38.622744	-121.335704
6	3410004-007	MN	FALSE	0.155	-10	-0.182	no trend	40	-1.42	8/1/1990	10/23/2002	38.594673	-121.334606
150	3410004-009	MN	FALSE	0.912	4	0.016	no trend	734.7	0.11	2/19/1991	6/1/2017	38.619652	-121.333354
261	3410004-016	MN	FALSE	0.298	45	0.15	no trend	1787	1.04	5/8/1987	6/1/2017	38.645576	-121.306819
248	3410004-020	MN	FALSE	0.207	24	0.264	no trend	332.7	1.26	4/25/2002	6/1/2017	38.641845	-121.315446
139	3410004-021	MN	FALSE	1	-1	-0.015	no trend	87.7	0	4/23/2002	6/1/2017	38.604804	-121.342252
290	3410006-001	MN	FALSE	0.213	17	0.309	no trend	165	1.25	7/19/1989	5/30/2019	38.661305	-121.292607
207	3410006-007	MN	FALSE	0.308	-4	-0.667	no trend	8.7	-1.02	7/19/1989	1/21/1998	38.705556	-121.308333
198	3410006-008	MN	FALSE	1	-1	-0.048	no trend	27.7	0	12/6/1990	2/20/2013	38.679425	-121.289154
98	3410006-010	MN	FALSE	1	0	0	no trend	8.7	0	10/21/2004	6/6/2018	38.698638	-121.269673
130	3410007-001	MN	FALSE	0.707	-3	-0.2	no trend	28.3	-0.38	4/10/1992	6/24/2010	38.613787	-121.367811
229	3410007-002	MN	FALSE	0.084	-16	-0.444	no trend	75.3	-1.73	11/7/1988	8/7/2019	38.613607	-121.371676
216	3410007-003	MN	FALSE	0.711	-4	-0.143	no trend	65.3	-0.37	7/19/1989	8/22/2016	38.606352	-121.369707
269	3410007-004	MN	FALSE	1	-1	-0.028	no trend	47.7	0	7/19/1989	8/6/2019	38.607768	-121.374083
77	3410007-005	MN	FALSE	0.205	12	0.333	no trend	75.3	1.27	11/7/1988	8/6/2019	38.61458	-121.378552
142	3410007-006	MN	FALSE	0.537	-10	-0.152	no trend	212.7	-0.62	7/19/1989	1/20/2012	38.60731	-121.364767
195	3410007-007	MN	FALSE	0.084	-16	-0.444	no trend	75.3	-1.73	7/19/1989	8/6/2019	38.606531	-121.380719
253	3410007-008	MN	FALSE	1	1	0.048	no trend	27.7	0	1/26/1993	8/13/2019	38.613172	-121.380739
166	3410009-001	MN	FALSE	1	-1	-0.1	no trend	13	0	2/28/1991	6/16/2004	38.643048	-121.268528
100	3410009-003	MN	FALSE	1	-1	-0.167	no trend	7.7	0	11/9/1988	2/8/2000	38.666667	-121.216667
105	3410009-004	MN	FALSE	1	-1	-0.036	no trend	37	0	8/2/1990	6/6/2006	38.651282	-121.255173
78	3410009-005	MN	FALSE	1	-1	-0.067	no trend	19.7	0	11/9/1988	6/16/2004	38.650805	-121.286999
201	3410009-006	MN	FALSE	1	-1	-0.018	no trend	73	0	7/19/1989	6/14/2012	38.642768	-121.278261
234	3410009-007	MN	FALSE	0.175	-8	-0.222	no trend	26.7	-1.36	7/19/1989	6/14/2012	38.651297	-121.296666
217	3410009-008	MN	FALSE	0.548	5	0.238	no trend	44.3	0.6	8/16/1990	6/6/2006	38.662066	-121.265396
164	3410009-010	MN	FALSE	0.611	6	0.133	no trend	96.7	0.51	11/7/1991	6/14/2012	38.659628	-121.25556
93	3410013-001	MN	FALSE	0.889	3	0.045	no trend	204.3	0.14	10/7/1992	8/13/2018	38.694922	-121.332628
159	3410013-002	MN	FALSE	0.816	-16	-0.03	no trend	4163.3	-0.23	2/18/1992	8/6/2019	38.69054	-121.34151
51	3410013-003	MN	FALSE	0.408	11	0.2	no trend	146.3	0.83	11/2/1988	8/16/2018	38.683982	-121.31348



240	3410013-004	MN	FALSE	1	1	0.01	no trend	361	0	4/15/1987	8/7/2018	38.699328	-121.295627
178	3410013-005	MN	FALSE	1	1	0.011	no trend	302.3	0	4/15/1987	8/7/2018	38.669042	-121.293798
63	3410013-006	MN	FALSE	1	-1	-0.015	no trend	211.7	0	2/11/1992	8/8/2018	38.685052	-121.305855
156	3410013-007	MN	FALSE	0.508	7	0.194	no trend	82.3	0.66	4/15/1987	8/19/2015	38.691478	-121.336784
270	3410013-008	MN	FALSE	0.07	29	0.372	no trend	238.3	1.81	11/2/1988	8/16/2018	38.673506	-121.340002
224	3410013-009	MN	FALSE	0.72	6	0.091	no trend	194	0.36	4/15/1987	8/7/2018	38.695662	-121.29509
92	3410013-010	MN	FALSE	0.064	58	0.305	no trend	948	1.85	4/14/1989	8/15/2018	38.670117	-121.341406
237	3410013-012	MN	FALSE	0.503	13	0.143	no trend	320.3	0.67	7/2/1990	8/13/2018	38.66565	-121.302524
223	3410013-013	MN	FALSE	0.683	-10	-0.083	no trend	484.7	-0.41	4/15/1987	8/13/2018	38.678824	-121.304628
144	3410013-014	MN	FALSE	0.72	6	0.091	no trend	194	0.36	11/2/1988	8/8/2018	38.668822	-121.304482
112	3410013-015	MN	FALSE	1	1	0.015	no trend	201	0	2/18/1992	8/6/2018	38.70124	-121.345319
233	3410013-016	MN	FALSE	0.699	6	0.091	no trend	167.3	0.39	2/11/1993	8/13/2018	38.709473	-121.292244
265	3410013-017	MN	FALSE	0.61	-4	-0.19	no trend	34.7	-0.51	2/11/1992	8/24/2006	38.712243	-121.303547
247	3410013-019	MN	FALSE	1	1	0.011	no trend	302.3	0	4/15/1987	8/6/2018	38.700287	-121.330955
226	3410013-020	MN	FALSE	1	-1	-0.036	no trend	55.7	0	11/2/1988	8/24/2006	38.716217	-121.294262
88	3410013-021	MN	FALSE	0.698	7	0.09	no trend	238.3	0.39	11/2/1988	8/8/2018	38.683333	-121.35
232	3410013-022	MN	FALSE	0.726	4	0.111	no trend	73.3	0.35	2/18/1992	9/11/2012	38.7124	-121.306829
189	3410013-023	MN	FALSE	0.298	-20	-0.22	no trend	332.7	-1.04	7/28/1989	8/7/2018	38.695536	-121.313454
66	3410013-024	MN	FALSE	0.833	-4	-0.061	no trend	202	-0.21	2/11/1992	8/7/2018	38.680539	-121.31067
220	3410013-025	MN	FALSE	0.363	-25	-0.163	no trend	697	-0.91	8/15/1989	8/13/2018	38.718426	-121.313299
188	3410013-026	MN	FALSE	1	1	0.011	no trend	302.3	0	4/15/1987	8/6/2018	38.701667	-121.344722
119	3410013-027	MN	FALSE	0.699	6	0.091	no trend	167.3	0.39	2/18/1992	9/18/2012	38.709413	-121.317252
165	3410013-028	MN	FALSE	1	-1	-0.036	no trend	64.3	0	4/21/1997	8/13/2018	38.698857	-121.32618
125	3410016-001	MN	FALSE	1	-1	-0.167	no trend	7.7	0	8/2/1990	12/21/2004	38.686538	-121.219546
147	3410016-002	MN	FALSE	0.289	-4	-0.4	no trend	8	-1.06	4/18/1991	1/17/2013	38.694541	-121.210813
126	3410018-005	MN	FALSE	0.26	7	0.467	no trend	28.3	1.13	7/28/1989	3/5/2002	38.721801	-121.46774
24	3410020-015	MN	FALSE	0.203	-11	-0.393	no trend	61.7	-1.27	1/17/1992	4/3/2017	38.6125	-121.479167
11	3410020-016	MN	FALSE	1	0	0	no trend	56.7	0	1/17/1992	1/20/2015	38.616667	-121.479167
293	3410020-017	MN	FALSE	0.203	17	0.309	no trend	157.7	1.27	11/18/1988	8/24/2017	38.62266	-121.477813
84	3410020-018	MN	FALSE	0.36	-10	-0.222	no trend	96.7	-0.92	1/17/1992	5/8/2017	38.627831	-121.477227
292	3410020-021	MN	FALSE	1	1	0.067	no trend	28.3	0	1/21/1992	10/12/2011	38.607083	-121.454779
97	3410020-022	MN	FALSE	0.788	-4	-0.089	no trend	124	-0.27	11/18/1988	3/20/2017	38.607305	-121.443097
136	3410020-023	MN	FALSE	1	1	0.036	no trend	64.3	0	1/21/1992	3/7/2017	38.604956	-121.439486
314	3410020-024	MN	FALSE	0.78	4	0.089	no trend	115.3	0.28	11/18/1988	10/10/2011	38.612801	-121.450505
129	3410020-025	MN	FALSE	0.613	-3	-0.3	no trend	15.7	-0.51	1/21/1992	10/9/2008	38.612294	-121.440456
215	3410020-027	MN	FALSE	1	0	0	no trend	96.7	0	1/22/1992	5/8/2017	38.620988	-121.443553
279	3410020-028	MN	FALSE	0.206	18	0.273	no trend	180.7	1.26	11/18/1988	5/8/2017	38.62044	-121.432285
108	3410020-029	MN	FALSE	1	-1	-0.028	no trend	91	0	1/17/1992	3/20/2017	38.618056	-121.468056
107	3410020-030	MN	FALSE	0.629	-6	-0.133	no trend	107.3	-0.48	1/17/1992	5/8/2017	38.625119	-121.462605
59	3410020-032	MN	FALSE	0.211	-26	-0.217	no trend	399.3	-1.25	1/16/1991	8/24/2017	38.628503	-121.43627
55	3410020-033	MN	FALSE	0.073	17	0.472	no trend	79.7	1.79	11/16/1988	10/10/2011	38.626808	-121.42959
171	3410020-034	MN	FALSE	1	1	0.018	no trend	143.7	0	1/16/1991	2/27/2018	38.638412	-121.446721
73	3410020-035	MN	FALSE	1	1	0.018	no trend	143.7	0	1/16/1991	2/27/2018	38.639934	-121.427293
133	3410020-037	MN	FALSE	0.629	7	0.127	no trend	154.3	0.48	1/16/1991	5/8/2017	38.651207	-121.469509
264	3410020-038	MN	FALSE	0.144	17	0.309	no trend	119.7	1.46	1/16/1991	5/8/2017	38.647475	-121.459256
50	3410020-039	MN	FALSE	1	-1	-0.1	no trend	15.7	0	1/22/1992	10/8/2003	38.627595	-121.432917
56	3410020-040	MN	FALSE	0.492	9	0.164	no trend	135.7	0.69	10/22/1990	5/9/2017	38.629597	-121.420726
278	3410020-041	MN	FALSE	1	1	0.015	no trend	179.7	0	1/16/1991	5/9/2017	38.641387	-121.435795
22	3410020-042	MN	FALSE	0.659	-5	-0.139	no trend	82.3	-0.44	1/21/1992	3/7/2017	38.596923	-121.458973
294	3410020-044	MN	FALSE	0.521	6	0.214	no trend	60.7	0.64	10/16/1990	10/10/2011	38.613996	-121.456155
194	3410020-045	MN	FALSE	0.492	9	0.164	no trend	135.7	0.69	10/19/1990	5/9/2017	38.622276	-121.446858
134	3410020-046	MN	FALSE	0.659	-5	-0.139	no trend	82.3	-0.44	1/22/1992	9/22/2014	38.623116	-121.427024
157	3410020-050	MN	FALSE	0.145	17	0.378	no trend	120.3	1.46	1/16/1991	3/25/2014	38.668053	-121.438012
42	3410020-051	MN	FALSE	0.203	17	0.309	no trend	157.7	1.27	1/16/1991	2/27/2018	38.634413	-121.412516
296	3410020-052	MN	FALSE	0.853	-3	-0.067	no trend	116.3	-0.19	3/8/1993	5/9/2017	38.599341	-121.445804
214	3410020-054	MN	FALSE	0.629	-6	-0.133	no trend	107.3	-0.48	1/21/1992	8/24/2017	38.596324	-121.427308
33	3410020-055	MN	FALSE	0.941	2	0.03	no trend	183.3	0.07	1/17/1992	5/9/2017	38.617636	-121.469304
91	3410020-056	MN	TRUE	0.002	-82	-0.39	decreasing	687.3	-3.09	1/12/1994	5/9/2017	38.654657	-121.448564
291	3410020-057	MN	TRUE	0.027	-31	-0.47	decreasing	184.3	-2.21	1/18/1995	12/19/2018	38.658482	-121.466415
30	3410026-001	MN	FALSE	0.308	-4	-0.667	no trend	8.7	1.02	2/21/1991	5/31/2012	38.58961	-121.429343
7	3410026-002	MN	FALSE	0.289	-4	-0.4	no trend	8	-1.06	2/21/1991	5/3/2018	38.588266	-121.423478
31	3410026-003	MN	FALSE	0.289	-4	-0.4	no trend	8	-1.06	2/21/1991	5/3/2018	38.593617	-121.439154
18	3410026-004	MN	FALSE	1	1	0.1	no trend	15.7	0	2/21/1991	5/3/2018	38.593339	-121.432431
206	3410031-001	MN	FALSE	0.944	3	0.018	no trend	808.3	0.07	3/24/1988	5/16/2019	38.720833	-121.358333
190	3410031-002	MN	FALSE	0.731	5	0.091	no trend	135.7	0.34	9/10/1993	8/8/2018	38.717222	-121.3575
94	3410031-003	MN	FALSE	0.552	-13	-0.124	no trend	406.3	-0.6	4/14/1989	8/14/2018	38.7	-121.383333
221	3410031-004	MN	FALSE	0.071	65	0.281	no trend	1255.7	1.81	10/29/1987	8/14/2018	38.718056	-121.382222
61	3410031-005	MN	FALSE	1	-1	-0.018	no trend	154.3	0	2/26/1992	8/5/2015	38.716667	-121.4
160	3410031-006	MN	FALSE	1	1	0.011	no trend	302.3	0	11/2/1988	8/14/2018	38.708333	-121.383611
2073	3410031-007	MN	FALSE	0.225	-23	-0.253	no trend	329	-1.21	11/2/1988	8/9/2018	38.733333	-121.35
2056	3410031-008	MN	FALSE	0.72	6	0.091	no trend	194	0.36	10/7/1992	8/9/2018	38.733333	-121.35
208	3410031-009	MN	FALSE	0.408	11	0.2	no trend	146.3	0.83	1/15/1992	8/7/2018	38.715278	-121.378056
72	3410031-010	MN	FALSE	0.146	24	0.308	no trend	250	1.45	8/29/1995	8/8/2019	38.705	-121.365556
289	3410031-011	MN	FALSE	0.056	-215	-0.191	no trend	12534	-1.91	6/21/1990	3/4/2019	38.726944	-121.3825
135	3410031-012	MN	FALSE	1	0	0	no trend	407.3	0	6/12/1992	8/7/2018	38.721111	-121.368611

45	3410031-013	MN	FALSE	0.073	26	0.394	no trend	194	1.79	11/2/1988	8/14/2018	38.711667	-121.413889
54	3410031-014	MN	FALSE	0.72	6	0.091	no trend	194	0.36	4/15/1987	8/14/2018	38.716111	-121.408889
95	3410031-015	MN	FALSE	0.734	2	0.333	no trend	8.7	0.34	2/11/1993	8/14/2018	38.716667	-121.416667
241	3410031-016	MN	FALSE	0.772	4	0.089	no trend	107.3	0.29	7/16/1996	8/8/2018	38.724444	-121.336111
80	3410031-017	MN	FALSE	0.826	3	0.083	no trend	82.3	0.22	4/30/1998	8/8/2018	38.723056	-121.349722
257	3410031-018	MN	FALSE	0.059	23	0.418	no trend	135.7	1.89	1/9/1996	8/7/2018	38.716389	-121.371944
288	3410045-001	MN	FALSE	1	1	0.013	no trend	249	0	11/3/1988	8/7/2018	38.586137	-121.411513
138	3410045-002	MN	FALSE	0.262	13	0.289	no trend	114.3	1.12	2/25/1992	8/7/2018	38.583085	-121.413054
116	3410045-003	MN	FALSE	0.747	5	0.091	no trend	154.3	0.32	2/25/1992	8/7/2018	38.594423	-121.417465
243	3410045-004	MN	TRUE	0.022	93	0.337	increasing	1624.3	2.28	4/20/1987	8/11/2014	38.592566	-121.407256
96	3410045-005	MN	FALSE	0.72	6	0.091	no trend	194	0.36	11/2/1988	8/7/2018	38.600025	-121.410183
2907	5105004-001	MN	FALSE	0.386	-8	-0.286	no trend	65.3	-0.87	11/29/2000	10/16/2013	38.777769	-121.52437
1859	USGS-383746121291101	MN	FALSE	0.64	-7	-0.127	no trend	165	-0.47	8/4/1998	8/8/2017	38.6292139	-121.4877028
1855	USGS-383900121270001	MN	FALSE	0.308	-4	-0.667	no trend	8.7	-1.02	6/14/2005	6/15/2005	38.6585	-121.4664722
1860	USGS-384145121184101	MN	TRUE	0.049	-23	-0.511	decreasing	125	-1.97	8/17/1998	9/4/2012	38.6964	-121.3120389
1868	USGS-384330121293901	MN	FALSE	0.251	-12	-0.333	no trend	92	-1.15	8/11/1997	8/16/2012	38.7251167	-121.4954417
2806	USGS-384413121163801	MN	FALSE	0.734	2	0.333	no trend	8.7	0.34	9/24/1982	3/10/2014	38.7369444	-121.277222

# Hexavalent Chromium

Local_ID	Well_Info_ID	chemical	h	p	s	tau	trend	var_s	z	datemin	datemax	Latitude_NAD83	Longitude_NAD83
2064	3110025-005	CR6	FALSE	1	-1	-0.167	no trend	7.7	0	12/12/2001	8/21/2017	38.818889	-121.31
145	3400173-002	CR6	FALSE	1	0	0	no trend	16.7	0	7/26/2001	2/14/2017	38.640638	-121.483861
235	3400173-003	CR6	FALSE	0.089	-6	-1	no trend	8.7	-1.7	2/20/2002	2/15/2017	38.654819	-121.477561
167	3400173-005	CR6	FALSE	0.089	-6	-1	no trend	8.7	-1.7	7/26/2001	2/15/2017	38.646271	-121.502342
191	3410001-016	CR6	FALSE	0.462	-4	-0.4	no trend	16.7	-0.73	6/6/2002	4/14/2014	38.631327	-121.37485
114	3410001-020	CR6	FALSE	1	0	0	no trend	8.7	0	5/9/2002	4/14/2014	38.618079	-121.359205
244	3410001-028	CR6	FALSE	1	1	0.167	no trend	7.7	0	7/15/2002	2/11/2015	38.63562	-121.381097
86	3410001-078	CR6	FALSE	0.734	-2	-0.333	no trend	8.7	-0.34	7/19/2001	4/16/2014	38.684818	-121.355931
262	3410001-106	CR6	FALSE	0.707	-3	-0.2	no trend	28.3	-0.38	7/19/2001	2/19/2015	38.710517	-121.331659
254	3410001-127	CR6	FALSE	1	1	0.167	no trend	7.7	0	7/19/2001	11/11/2014	38.712268	-121.381099
149	3410001-129	CR6	FALSE	0.312	5	0.5	no trend	15.7	1.01	7/19/2001	2/26/2015	38.710651	-121.387666
99	3410001-136	CR6	FALSE	0.848	-2	-0.133	no trend	27.3	-0.19	7/18/2002	3/27/2018	38.685899	-121.372701
141	3410001-137	CR6	FALSE	0.613	-3	-0.3	no trend	15.7	-0.51	7/11/2002	2/19/2015	38.692847	-121.375953
315	3410002-001	CR6	FALSE	0.707	-3	-0.2	no trend	28.3	-0.38	3/20/2001	2/8/2017	38.583333	-121.383333
117	3410002-002	CR6	FALSE	0.452	-5	-0.333	no trend	28.3	-0.75	3/20/2001	2/8/2017	38.583333	-121.366667
28	3410002-007	CR6	FALSE	1	-1	-0.067	no trend	28.3	0	3/20/2001	2/14/2017	38.566667	-121.4
10	3410002-012	CR6	FALSE	0.579	-3	-0.3	no trend	13	-0.55	3/20/2001	11/14/2017	38.566667	-121.416667
17	3410002-013	CR6	FALSE	1	0	0	no trend	28.3	0	3/20/2001	2/14/2017	38.583333	-121.416667
249	3410002-014	CR6	FALSE	1	0	0	no trend	27.3	0	3/20/2001	11/14/2017	38.583333	-121.366667
74	3410004-001	CR6	FALSE	0.312	5	0.5	no trend	15.7	1.01	6/12/2001	1/29/2003	38.645432	-121.313067
83	3410004-004	CR6	FALSE	0.266	10	0.357	no trend	65.3	1.11	6/12/2001	7/23/2003	38.64988	-121.30798
172	3410004-006	CR6	FALSE	1	0	0	no trend	268.7	0	6/12/2001	6/4/2015	38.622744	-121.335704
6	3410004-007	CR6	FALSE	0.433	6	0.286	no trend	40.7	0.78	4/11/2001	10/23/2002	38.594673	-121.334606
150	3410004-009	CR6	FALSE	0.951	-2	-0.026	no trend	266.7	-0.06	6/12/2001	6/4/2015	38.619652	-121.333354
261	3410004-016	CR6	FALSE	1	1	0.022	no trend	120.3	0	6/12/2001	6/4/2015	38.645576	-121.306819
248	3410004-020	CR6	FALSE	0.902	2	0.071	no trend	65.3	0.12	4/25/2002	6/4/2015	38.641845	-121.315446
139	3410004-021	CR6	FALSE	0.272	-8	-0.381	no trend	40.7	-1.1	4/23/2002	6/4/2015	38.604804	-121.342252
229	3410007-002	CR6	FALSE	0.462	4	0.4	no trend	16.7	0.73	3/12/2002	8/13/2018	38.613607	-121.371676
216	3410007-003	CR6	FALSE	0.734	-2	-0.333	no trend	8.7	-0.34	6/13/2002	8/5/2015	38.606352	-121.369707
269	3410007-004	CR6	TRUE	0.027	10	1	increasing	16.7	2.2	3/12/2002	8/13/2018	38.607768	-121.374083
77	3410007-005	CR6	FALSE	0.462	4	0.4	no trend	16.7	0.73	3/12/2002	8/13/2018	38.61458	-121.378552
195	3410007-007	CR6	FALSE	0.707	3	0.2	no trend	28.3	0.38	3/12/2002	8/14/2018	38.606531	-121.380719
253	3410007-008	CR6	FALSE	1	0	0	no trend	8.7	0	3/12/2002	8/14/2018	38.613172	-121.380739
166	3410009-001	CR6	FALSE	1	0	0	no trend	8.7	0	6/27/2001	12/17/2003	38.643048	-121.268528
105	3410009-004	CR6	FALSE	1	0	0	no trend	8.7	0	6/27/2001	12/17/2003	38.651282	-121.255173
78	3410009-005	CR6	FALSE	0.371	-3	-0.5	no trend	5	-0.89	6/27/2001	12/17/2003	38.650805	-121.286999
201	3410009-006	CR6	FALSE	0.148	-11	-0.306	no trend	47.7	-1.45	6/27/2001	11/8/2018	38.642768	-121.278261
234	3410009-007	CR6	FALSE	1	0	0	no trend	92	0	6/27/2001	11/8/2018	38.651297	-121.296666
217	3410009-008	CR6	FALSE	1	0	0	no trend	8.7	0	6/27/2001	12/17/2003	38.662066	-121.265396
164	3410009-010	CR6	FALSE	0.544	-25	-0.077	no trend	1565	-0.61	6/27/2001	3/28/2019	38.659628	-121.25556
93	3410013-001	CR6	FALSE	0.308	-4	-0.667	no trend	8.7	-1.02	3/25/2002	5/17/2017	38.694922	-121.332628
159	3410013-002	CR6	FALSE	1	1	0.167	no trend	7.7	0	6/5/2002	5/17/2017	38.69054	-121.34151
51	3410013-003	CR6	FALSE	0.308	-4	-0.667	no trend	8.7	-1.02	6/5/2002	12/19/2017	38.683982	-121.313348
240	3410013-004	CR6	FALSE	0.734	-2	-0.333	no trend	8.7	-0.34	3/25/2002	5/9/2017	38.699328	-121.295627
178	3410013-005	CR6	FALSE	0.734	2	0.333	no trend	8.7	0.34	3/25/2002	5/9/2017	38.669042	-121.293798
63	3410013-006	CR6	FALSE	0.308	4	0.667	no trend	8.7	1.02	7/25/2002	5/9/2017	38.685052	-121.305855
156	3410013-007	CR6	FALSE	0.734	2	0.333	no trend	8.7	0.34	7/28/2003	5/9/2017	38.691478	-121.336784
270	3410013-008	CR6	FALSE	1	0	0	no trend	16.7	0	6/5/2002	9/19/2018	38.673506	-121.340002
224	3410013-009	CR6	FALSE	0.308	4	0.667	no trend	8.7	1.02	3/25/2002	5/9/2017	38.695662	-121.29509
92	3410013-010	CR6	FALSE	1	0	0	no trend	8.7	0	3/25/2002	5/10/2017	38.670117	-121.341406
237	3410013-012	CR6	FALSE	0.308	4	0.667	no trend	8.7	1.02	3/25/2002	5/8/2017	38.66565	-121.302524
223	3410013-013	CR6	FALSE	0.308	-4	-0.667	no trend	8.7	-1.02	3/25/2002	5/8/2017	38.678824	-121.304628
144	3410013-014	CR6	FALSE	0.221	6	0.6	no trend	16.7	1.22	6/5/2002	5/8/2017	38.668822	-121.304482
112	3410013-015	CR6	FALSE	0.734	2	0.333	no trend	8.7	0.34	3/25/2002	5/8/2017	38.70124	-121.345319
233	3410013-016	CR6	FALSE	0.308	4	0.667	no trend	8.7	1.02	3/25/2002	2/13/2018	38.709473	-121.292244
247	3410013-019	CR6	FALSE	0.089	-6	-1	no trend	8.7	-1.7	3/25/2002	10/19/2017	38.700287	-121.330955
189	3410013-023	CR6	FALSE	0.221	6	0.6	no trend	16.7	1.22	6/5/2002	5/8/2017	38.695536	-121.313454
188	3410013-026	CR6	FALSE	0.462	-4	-0.4	no trend	16.7	-0.73	3/25/2002	5/8/2017	38.701667	-121.344722
119	3410013-027	CR6	FALSE	1	0	0	no trend	8.7	0	3/25/2002	5/7/2014	38.709413	-121.317252
165	3410013-028	CR6	FALSE	1	0	0	no trend	8.7	0	6/5/2002	5/8/2017	38.698857	-121.32618
3103	3410018-016	CR6	FALSE	0.617	-8	-0.121	no trend	196	-0.5	1/28/2014	6/27/2019	38.67821521	-121.4400672
3104	3410018-017	CR6	FALSE	1	-1	-0.018	no trend	148.3	0	4/16/2014	6/27/2019	38.70652939	-121.4385374
3105	3410018-018	CR6	FALSE	0.221	-6	-0.6	no trend	16.7	-1.22	4/16/2014	3/13/2018	38.699946	-121.448704
3106	3410018-019	CR6	FALSE	0.331	-15	-0.227	no trend	207	-0.97	1/28/2014	6/27/2019	38.6908207	-121.4118831

3107	3410018-020	CR6	FALSE	0.221	-6	-0.6	no trend	16.7	-1.22	4/16/2014	3/14/2018	38.683913	-121.457232
3108	3410018-021	CR6	FALSE	0.65	6	0.133	no trend	121.3	0.45	4/16/2014	6/27/2019	38.67497323	-121.459362
3109	3410018-022	CR6	FALSE	1	0	0	no trend	124	0	1/28/2014	6/27/2019	38.68524743	-121.4196703
3110	3410018-023	CR6	FALSE	1	0	0	no trend	16.7	0	1/28/2014	3/14/2018	38.6887253	-121.4487616
3111	3410018-025	CR6	FALSE	0.346	-32	-0.152	no trend	1084	-0.94	5/2/2011	6/27/2019	38.697725	-121.39672
3101	3410018-031	CR6	FALSE	0.328	-17	-0.218	no trend	267.7	-0.98	4/16/2014	6/27/2019	38.69494633	-121.4521593
3102	3410018-033	CR6	FALSE	0.462	-4	-0.4	no trend	16.7	-0.73	4/16/2014	3/26/2019	38.683947	-121.462511
84	3410020-018	CR6	FALSE	0.755	-5	-0.091	no trend	165	-0.31	7/8/2002	7/10/2017	38.627831	-121.477227
171	3410020-034	CR6	FALSE	0.917	2	0.056	no trend	92	0.1	7/9/2002	7/10/2017	38.638412	-121.446721
73	3410020-035	CR6	FALSE	0.649	4	0.19	no trend	43.3	0.46	7/9/2002	7/10/2017	38.639934	-121.427293
133	3410020-037	CR6	FALSE	0.213	-17	-0.309	no trend	165	-1.25	7/8/2002	7/10/2017	38.651207	-121.469509
264	3410020-038	CR6	FALSE	0.276	15	0.273	no trend	165	1.09	7/10/2002	7/10/2017	38.647475	-121.459256
56	3410020-040	CR6	FALSE	1	-1	-0.028	no trend	91	0	7/9/2002	7/10/2017	38.629597	-121.420726
278	3410020-041	CR6	FALSE	0.876	-3	-0.055	no trend	165	-0.16	7/9/2002	7/10/2017	38.641387	-121.435795
157	3410020-050	CR6	FALSE	0.734	-2	-0.333	no trend	8.7	-0.34	7/10/2002	11/3/2015	38.668053	-121.438012
91	3410020-056	CR6	FALSE	0.902	-2	-0.071	no trend	65.3	-0.12	7/10/2002	7/10/2017	38.654657	-121.448564
291	3410020-057	CR6	FALSE	0.673	14	0.074	no trend	950	0.42	12/2/2002	7/10/2017	38.658482	-121.466415
206	3410031-001	CR6	FALSE	0.734	-2	-0.333	no trend	8.7	-0.34	3/25/2002	5/9/2017	38.720833	-121.358333
190	3410031-002	CR6	FALSE	0.308	-4	-0.667	no trend	8.7	-1.02	6/4/2002	5/8/2017	38.717222	-121.3575
94	3410031-003	CR6	FALSE	0.183	42	0.221	no trend	950	1.33	3/25/2002	8/6/2019	38.7	-121.383333
221	3410031-004	CR6	FALSE	0.734	-2	-0.333	no trend	8.7	-0.34	3/25/2002	8/17/2017	38.718056	-121.382222
61	3410031-005	CR6	FALSE	0.064	-46	-0.338	no trend	589.3	-1.85	3/25/2002	5/2/2018	38.716667	-121.4
160	3410031-006	CR6	FALSE	0.401	-25	-0.146	no trend	815	-0.84	3/25/2002	8/6/2019	38.708333	-121.383611
2073	3410031-007	CR6	FALSE	1	0	0	no trend	8.7	0	3/25/2002	5/11/2017	38.733333	-121.35
2056	3410031-008	CR6	FALSE	0.734	2	0.333	no trend	8.7	0.34	6/5/2002	5/11/2017	38.733333	-121.35
208	3410031-009	CR6	FALSE	1	0	0	no trend	8.7	0	6/4/2002	5/8/2017	38.715278	-121.378056
72	3410031-010	CR6	FALSE	1	0	0	no trend	8.7	0	6/4/2002	5/9/2017	38.705	-121.365556
289	3410031-011	CR6	FALSE	0.755	-5	-0.091	no trend	165	-0.31	6/4/2002	11/5/2018	38.726944	-121.3825
135	3410031-012	CR6	FALSE	0.732	6	0.091	no trend	212.7	0.34	6/4/2002	8/8/2019	38.721111	-121.368611
45	3410031-013	CR6	FALSE	0.089	-6	-1	no trend	8.7	-1.7	3/25/2002	5/8/2017	38.711667	-121.413889
54	3410031-014	CR6	FALSE	0.308	-4	-0.667	no trend	8.7	-1.02	6/4/2002	5/8/2017	38.716111	-121.408889
241	3410031-016	CR6	FALSE	0.734	-2	-0.333	no trend	8.7	-0.34	6/4/2002	5/8/2017	38.724444	-121.336111
80	3410031-017	CR6	FALSE	1	0	0	no trend	8.7	0	6/4/2002	5/8/2017	38.723056	-121.349722
257	3410031-018	CR6	FALSE	0.308	-4	-0.667	no trend	8.7	-1.02	3/25/2002	5/9/2017	38.716389	-121.371944
288	3410045-001	CR6	FALSE	1	0	0	no trend	8.7	0	6/5/2002	5/9/2017	38.586137	-121.411513
138	3410045-002	CR6	FALSE	1	0	0	no trend	8.7	0	6/4/2002	5/9/2017	38.583085	-121.413054
116	3410045-003	CR6	FALSE	0.089	6	1	no trend	8.7	1.7	6/4/2002	5/9/2017	38.594423	-121.417465
96	3410045-005	CR6	FALSE	1	0	0	no trend	8.7	0	6/4/2002	5/9/2017	38.600025	-121.410183
2909	5105013-001	CR6	FALSE	0.128	-9	-0.429	no trend	27.7	-1.52	2/29/2016	10/9/2017	38.781319	-121.484797
1075	SL185602928-EX-1	CR6	FALSE	0.692	-9	-0.086	no trend	408.3	-0.4	3/21/2006	6/24/2010	38.5948499	-121.3917114
1374	SL185602928-F-1	CR6	FALSE	0.06	-39	-0.371	no trend	408.3	-1.88	6/27/2007	9/19/2012	38.5967632	-121.3919666
935	SL185602928-F-10	CR6	FALSE	0.124	-35	-0.292	no trend	489.7	-1.54	3/22/2007	9/20/2012	38.5972826	-121.3912015
1345	SL185602928-F-2	CR6	FALSE	0.107	19	0.422	no trend	125	1.61	6/27/2007	6/25/2010	38.5967632	-121.3917771
846	SL185602928-F-3	CR6	FALSE	0.876	3	0.055	no trend	165	0.16	3/22/2007	6/25/2010	38.5967603	-121.3915766
1385	SL185602928-F-4	CR6	FALSE	0.161	-19	-0.345	no trend	165	-1.4	3/22/2007	6/25/2010	38.5967465	-121.3913754
1470	SL185602928-F-5	CR6	FALSE	0.834	7	0.041	no trend	817	0.21	3/22/2007	9/20/2012	38.5967608	-121.3911558
1422	SL185602928-F-6	CR6	TRUE	0	-82	-0.683	decreasing	493.3	-3.65	3/22/2007	9/19/2012	38.5972848	-121.3920357
971	SL185602928-F-7	CR6	FALSE	1	1	0.018	no trend	165	0	3/22/2007	6/28/2010	38.5972856	-121.3918353
1580	SL185602928-F-8	CR6	FALSE	0.913	3	0.033	no trend	333.7	0.11	3/22/2007	9/20/2012	38.5972826	-121.3916167
1298	SL185602928-F-9	CR6	FALSE	0.544	-17	-0.111	no trend	697	-0.61	3/22/2007	9/20/2012	38.5972862	-121.3913874
1369	SL185602928-SP-1A	CR6	FALSE	0.079	-40	-0.333	no trend	493.3	-1.76	3/21/2006	6/24/2010	38.594695	-121.3918783

