

# CROW BUTTE RESOURCES, INC.

86 Crow Butte Road  
P.O. Box 169  
Crawford, Nebraska 69339-0169



(308) 665-2215  
(308) 665-2341 – FAX

November 2, 2005

Mr. Michael Linder, Director  
Nebraska Department of Environmental Quality  
PO Box 98922  
Lincoln, Nebraska 68509-8922

Subject: UIC Permit NE0122611  
CM9-16 Monitor Well Excursion

Dear Mr. Linder:

On August 4, 2005 during routine biweekly water sampling of Crow Butte Resources, Inc. (CBR) perimeter monitor well CM9-16, the single parameter upper control limit (UCL) was exceeded for chloride, conductivity and alkalinity. As required by Section B.1 of Part II of UIC Permit NE0122611, a second sample was collected within 24 hours and analyzed for the three excursion indicator parameters. Analysis of the second sample confirmed the existence of an excursion. CBR notified Mr. Dave Miesbach and Mr. Dave Carlson by telephone on August 4, 2005 of the confirmation of the excursion and submitted a letter to NDEQ Director Mr. Michael Linder on August 5, 2005.

In accordance with Section B.1 of the UIC permit, CBR increased the sampling frequency for CM9-16 to weekly. Laboratory results for the weekly analysis are attached. In addition, graphs are attached for the samples that cover the period from May 26, 2005 to November 1, 2005.

As required by Section B.1 of Part II of UIC Permit NE0122611, this 90-Day Report summarizes the corrective actions taken by Crow Butte Resources, Inc. (CBR).

This well had experienced a slow upward trend over the past several months. CBR had been overproducing in this area and as of July 21, 2005 had a production bleed of approximately 100 GPM. On August 12, 2005 a reversal was completed on injection well I3550 in Wellhouse 41 and was put into production at 15 GPM. Injection well I3529 in Wellhouse 42 and injection well I3720 in Wellhouse 43 were reversed on August 16, 2005. The wells were put into production at 7 GPM and 11 GPM respectively. All other injection wells in this area were shut off prior to June 27, 2005.

On October 14, 2005 production well P4302-41 was drilled 150 feet east and 100 north of CM9-16 (map attached) and put into production at 25 GPM. The excursion indicator parameters have shown a

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substantial decrease since the installation and operation of this well. CBR believes that at the current bleed rate of 173 GPM (November 2, 2005) and the production from P4302-41, the mining solution will be recovered in this area.

As shown in the data, all parameters have shown a downward trend since August 11, 2005. In the past two sampling events (October 25 and November 1) all parameters except chloride have been below their single and multiple UCLs. Chloride was below the multiple UCL on November 1, 2005 and continues to decrease. Based upon the trends, CBR expects that the sample scheduled for November 8, 2005 will be the third sample below the exceeded UCLs. If so, CM9-16 will be removed from excursion status. CBR will then continue weekly sampling for an additional three weeks after this goal has been achieved. If the well has not exceeded the UCLs, it will be returned to bi-weekly sampling.

If you have any questions or require any further information, please do not hesitate to call me at (308) 665-2215.

Sincerely,  
CROW BUTTE RESOURCES, INC.

Larry L. Teahon  
Environmental Coordinator

Enclosures: As Stated

cc: Mr. Dave Carlson, NDEQ Chadron Field Office  
Mr. Steve Collings - CBR, Denver

Mr. Gary Janosko, Branch Chief  
Fuel Cycle Licensing Branch, FCSS  
c/o Document Control Desk  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

**CROW BUTTE RESOURCES, INC.**

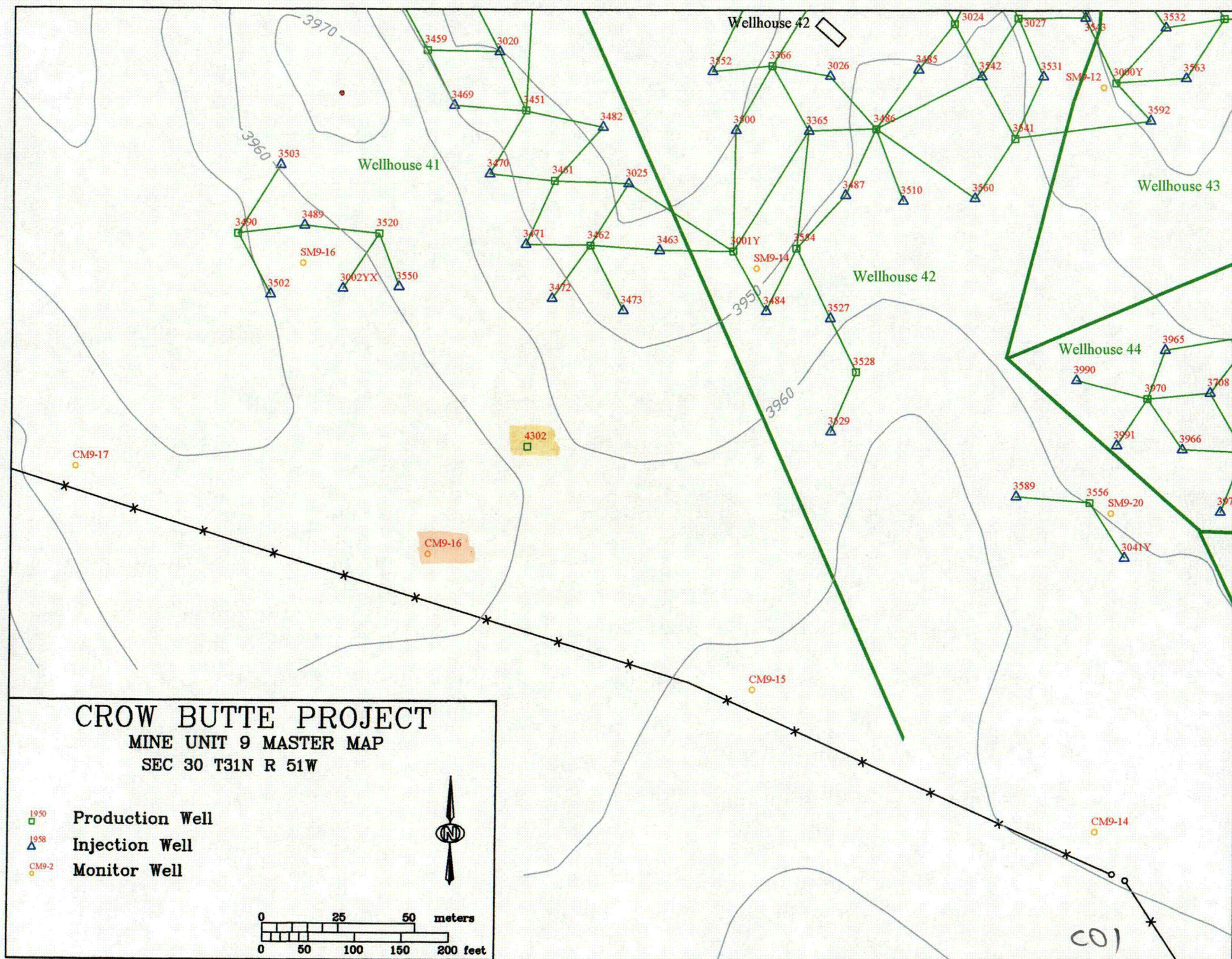


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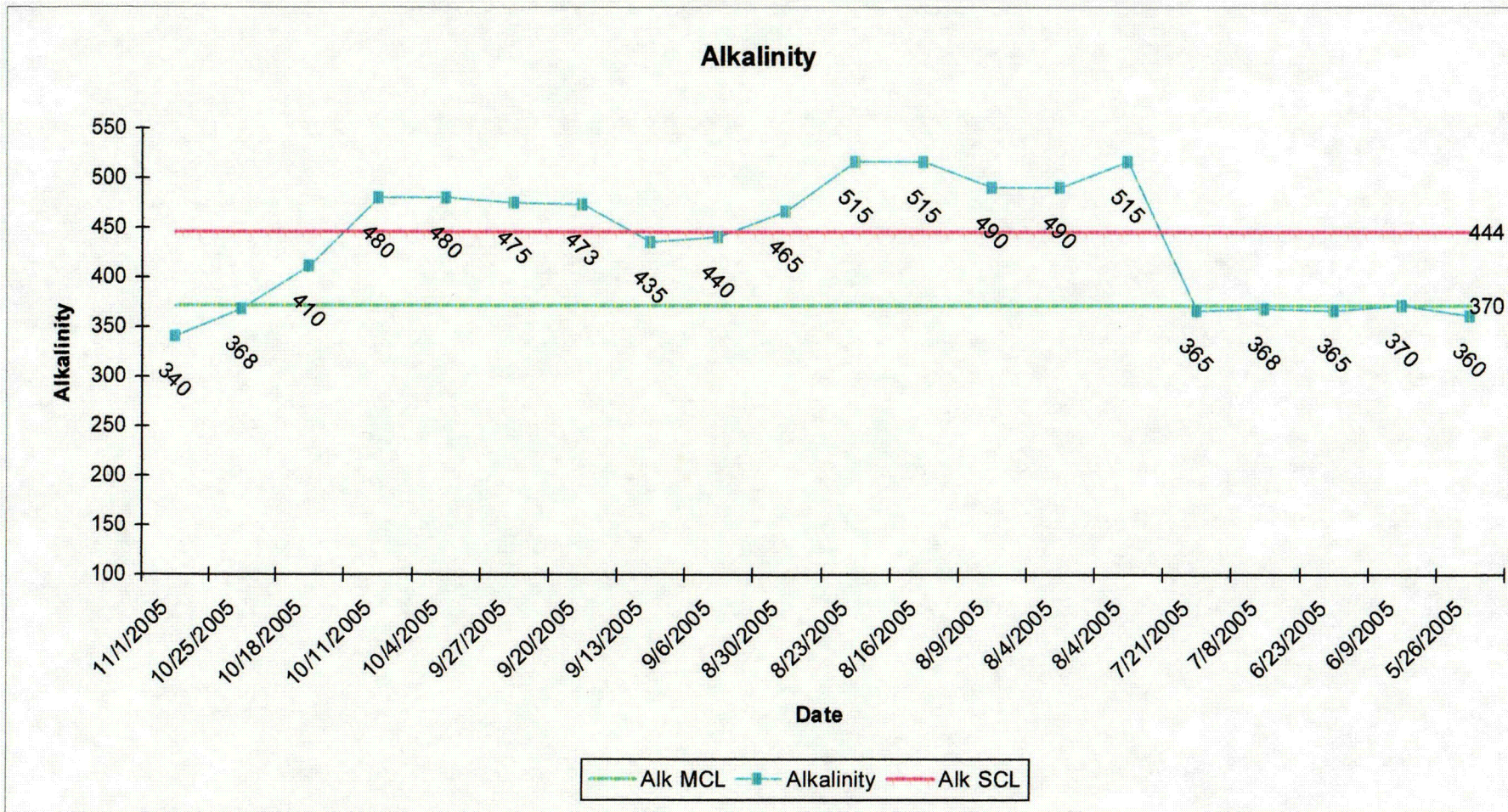
U.S. Nuclear Regulatory Commission  
Mr. Stephen J. Cohen – ADDRESSEE ONLY  
Fuel Cycle Licensing Branch  
Mail Stop T-8A33  
Washington, DC 20555





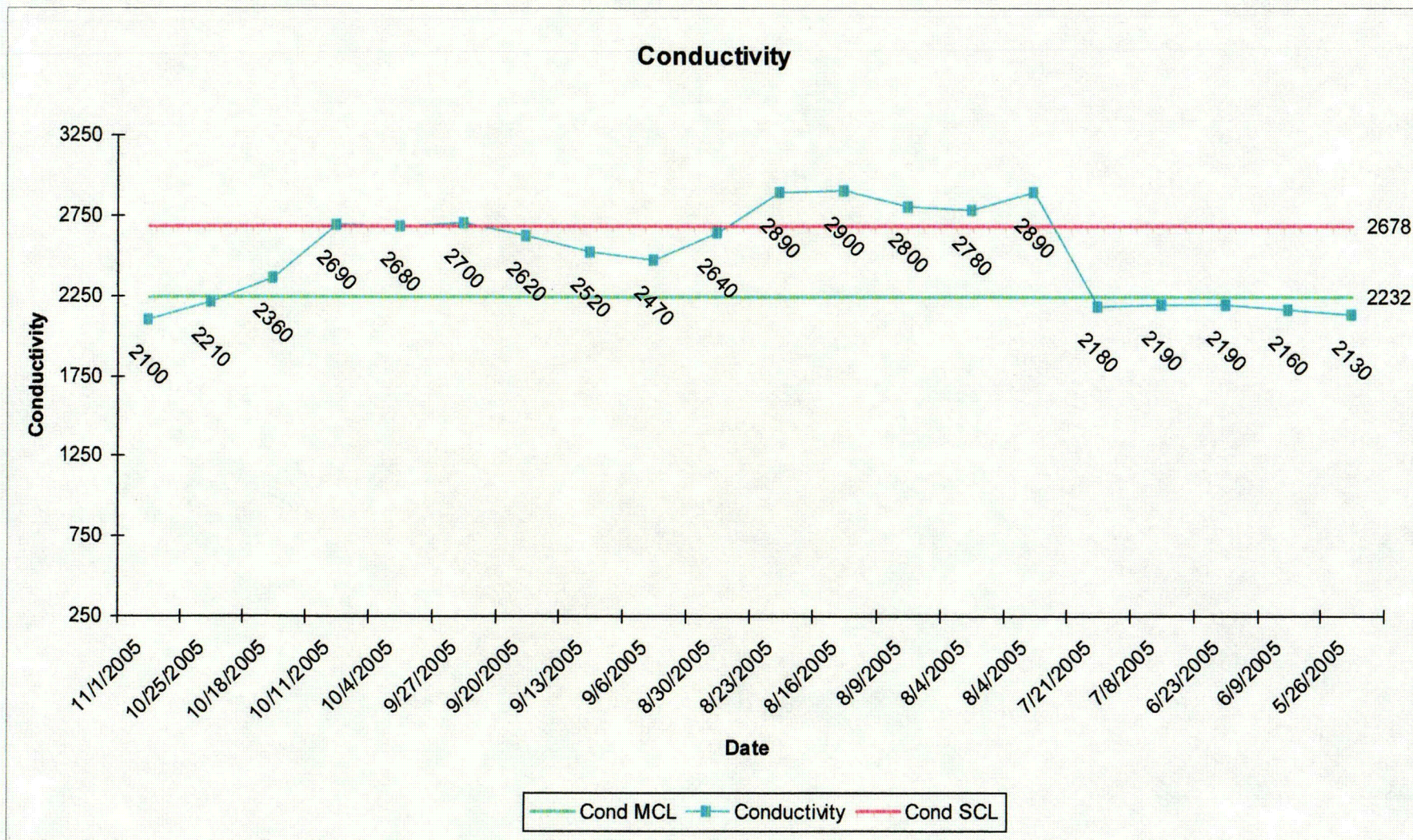


# CM9-16



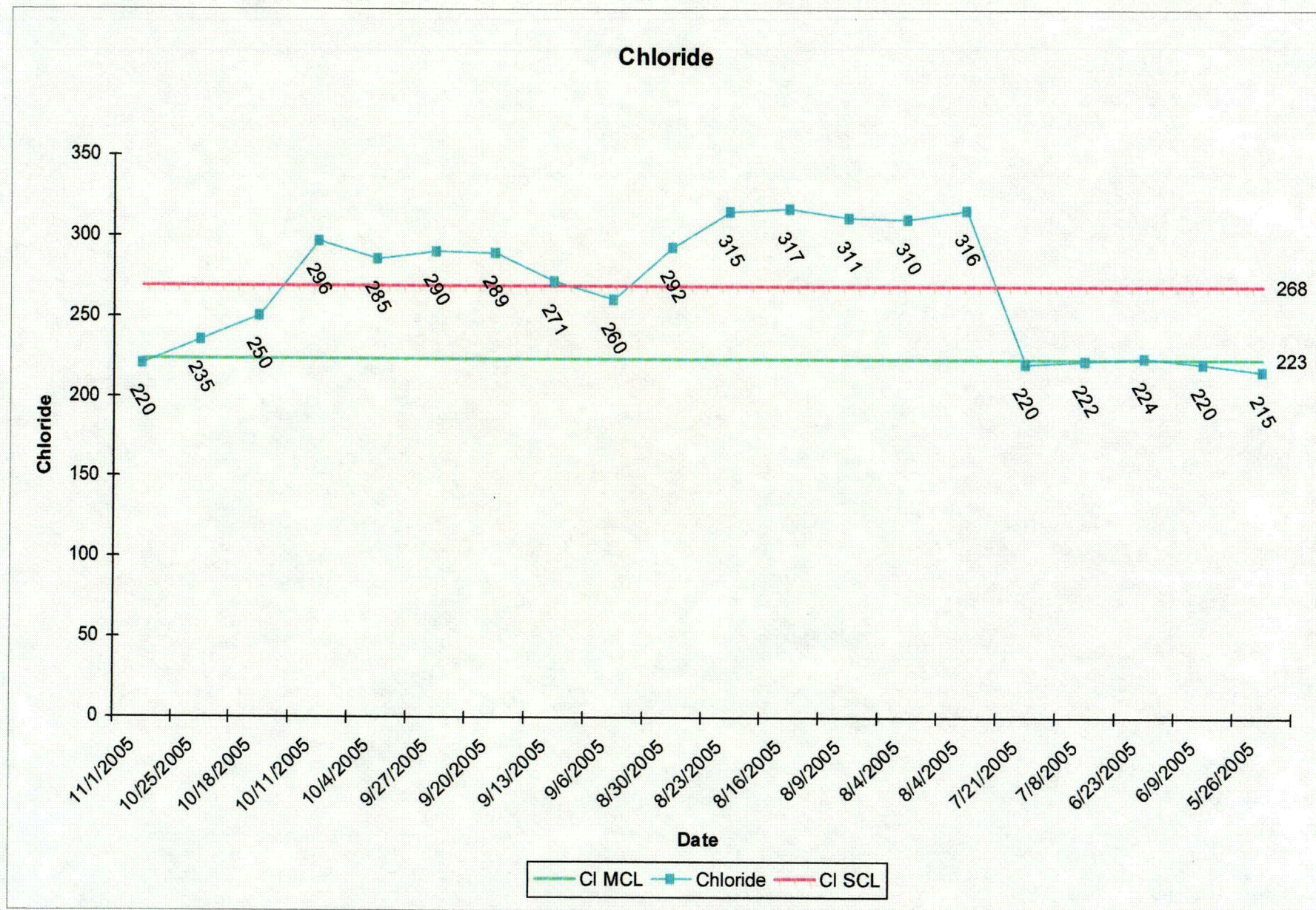


# CM9-16



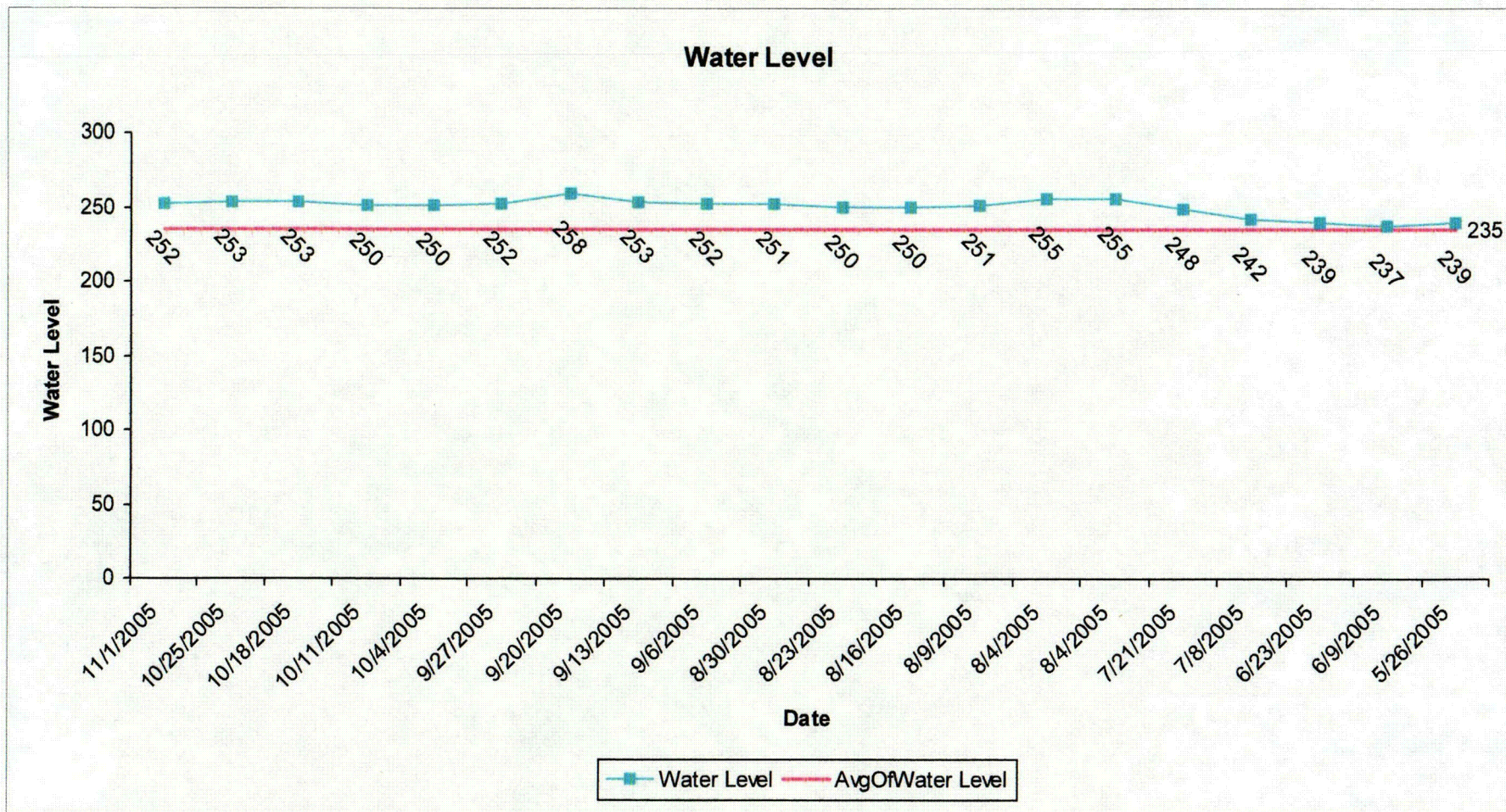


# CM9-16





# CM9-16





Sample Date 8/9/05  
Analysis Date 8/9/05

# Crow Butte Project Monitor Well Laboratory Report

Well ID	Alkalinity			Conductivity			Chloride		
	(mg/L)	Alk SCL	Alk MCL	(µmho/cm)	Cond SCL	Cond MCL	(mg/L)	Cl SCL	Cl MCL
SM7-17	195	209	174	440	539	449	3.5	30	25
SM7-18	130	217	181	350	513	427	3.5	23	19
SM7-19	143	212	176	350	599	499	1.9	38	31
SM7-23	180	278	232	490	850	708	5	59	50
CM5-6	300	458	382	1890	2844	2370	183	292	244
CM5-7	300	433	361	1880	2870	2392	181	288	240
CM5-8	308	448	373	1910	2876	2396	178	289	241
CM5-9	305	433	361	1900	2864	2387	178	289	241
CM5-10	290	403	336	1920	2943	2453	177	333	277
CM5-11	310	438	365	1980	2897	2414	184	307	256
CM5-12	298	456	380	1920	2982	2485	182	323	269
SM6-12	245	348	290	570	736	613	12	23	19
CM5-19	333	425	354	2320	2916	2430	240	320	266
CM9-16	490	444	370	2800	2678	2232	311	268	223
PR8	610	484	403	4160	2866	2388	461	282	235
IJ13P	630	415	346	4410	2900	2417	467	278	232



Sample Date  
Analysis Date

8/16/05  
8/16/05

**Crow Butte Project**  
**Monitor Well Laboratory Report**

Well ID	Alkalinity			Conductivity			Chloride		
	(mg/L)	Alk SCL	Alk MCL	(µmho/cm)	Cond SCL	Cond MCL	(mg/L)	Cl SCL	Cl MCL
CM4-5	315	413	344	1960	3171	2642	192	336	280
CM4-6	300	405	337	1860	2812	2344	177	264	220
CM4-7	310	418	348	1860	3332	2777	181	409	341
CM7-1	305	410	342	1860	2563	2136	185	239	199
CM7-10	293	454	378	1910	2877	2398	185	297	247
CM7-11	295	432	360	1930	2817	2347	185	281	234
CM7-12	295	422	352	1940	2794	2328	185	289	241
SM6-12	243	348	290	560	736	613	11	23	19
CM5-19	345	425	354	2330	2916	2430	238	320	266
CM9-16	515	444	370	2900	2678	2232	317	268	223
PR8	610	484	403	4150	2866	2388	460	282	235
PR15	340	444	370	1920	2792	2327	167	268	223
IJ13P	630	415	346	4410	2900	2417	465	278	232



Sample Date 8/23/05  
Analysis Date 8/23/05

**Crow Butte Project**  
**Monitor Well Laboratory Report**

Well ID	Alkalinity			Conductivity			Chloride		
	(mg/L)	Alk SCL	Alk MCL	(µmho/cm)	Cond SCL	Cond MCL	(mg/L)	Cl SCL	Cl MCL
SM7-17	195	209	174	440	539	449	3.5	30	25
SM7-18	130	217	181	350	513	427	3.5	23	19
SM7-19	145	212	176	350	599	499	1.9	38	31
SM7-23	175	278	232	490	850	708	5	59	50
CM5-6	300	458	382	1880	2844	2370	182	292	244
CM5-7	300	433	361	1880	2870	2392	181	288	240
CM5-8	310	448	373	1910	2876	2396	177	289	241
CM5-9	300	433	361	1910	2864	2387	181	289	241
CM5-10	295	403	336	1920	2943	2453	177	333	277
CM5-11	310	438	365	1980	2897	2414	185	307	256
CM5-12	300	456	380	1920	2982	2485	183	323	269
CM9-16	515	444	370	2890	2678	2232	315	268	223
PR8	610	484	403	4130	2866	2388	458	282	235
IJ13P	630	415	346	4410	2900	2417	465	278	232



Sample Date  
Analysis Date

8/30/05  
8/30/05

**Crow Butte Project**  
**Monitor Well Laboratory Report**

Well ID	Alkalinity			Conductivity			Chloride		
	(mg/L)	Alk SCL	Alk MCL	(µmho/cm)	Cond SCL	Cond MCL	(mg/L)	Cl SCL	Cl MCL
CM4-5	315	413	344	1960	3171	2642	192	336	280
CM4-6	300	405	337	1860	2812	2344	177	264	220
CM4-7	310	418	348	1860	3332	2777	183	409	341
CM7-1	305	410	342	1870	2563	2136	185	239	199
CM7-10	295	454	378	1910	2877	2398	185	297	247
CM7-11	295	432	360	1930	2817	2347	185	281	234
CM7-12	295	422	352	1940	2794	2328	185	289	241
CM9-16	465	444	370	2640	2678	2232	292	268	223
PR8	610	484	403	4110	2866	2388	456	282	235
PR15	340	444	370	1850	2792	2327	150	268	223
IJ13P	635	415	346	4310	2900	2417	458	278	232

Sample Date 9/6/05  
Analysis Date 9/6/05

**Crow Butte Project**  
**Monitor Well Laboratory Report**

Well ID	Alkalinity			Conductivity			Chloride		
	(mg/L)	Alk SCL	Alk MCL	(µmho/cm)	Cond SCL	Cond MCL	(mg/L)	Cl SCL	Cl MCL
CM5-18	300	441	367	1950	2916	2430	185	315	263
CM5-19	333	425	354	2220	2916	2430	229	320	266
CM5-20	310	445	371	2000	2929	2441	196	310	258
CM5-21	300	441	367	1950	2910	2425	185	275	229
CM6-18	305	442	368	1940	2909	2424	181	302	252
CM6-19	310	452	377	1940	2880	2400	185	295	246
CM9-16	440	444	370	2470	2678	2232	260	268	223
PR8	590	484	403	4020	2866	2388	450	282	235
IJ13P	630	415	346	4370	2900	2417	460	278	232



Sample Date 9/13/05  
Analysis Date 9/13/05

## Crow Butte Project Monitor Well Laboratory Report

Well ID	Alkalinity			Conductivity			Chloride		
	(mg/L)	Alk SCL	Alk MCL	(µmho/cm)	Cond SCL	Cond MCL	(mg/L)	Cl SCL	Cl MCL
CM4-5	310	413	344	1950	3171	2642	192	336	280
CM4-6	300	405	337	1860	2812	2344	177	264	220
CM4-7	310	418	348	1860	3332	2777	181	409	341
CM7-1	305	410	342	1870	2563	2136	185	239	199
CM7-10	295	454	378	1910	2877	2398	185	297	247
CM7-11	298	432	360	1930	2817	2347	185	281	234
CM7-12	295	422	352	1940	2794	2328	185	289	241
CM9-16	435	444	370	2520	2678	2232	271	268	223
PR8	595	484	403	4010	2866	2388	448	282	235
PR15	340	444	370	1760	2792	2327	133	268	223
IJ13P	630	415	346	4350	2900	2417	456	278	232

Sample Date 9/20/05  
Analysis Date 9/20/05

## Crow Butte Project Monitor Well Laboratory Report

Well ID	Alkalinity			Conductivity			Chloride		
	(mg/L)	Alk SCL	Alk MCL	(µmho/cm)	Cond SCL	Cond MCL	(mg/L)	Cl SCL	Cl MCL
SM7-17	190	209	174	440	539	449	3.5	30	25
SM7-18	140	217	181	350	513	427	3.7	23	19
SM7-19	145	212	176	350	599	499	1.9	38	31
SM7-23	175	278	232	480	850	708	5	59	50
CM5-6	300	458	382	1880	2844	2370	181	292	244
CM5-7	305	433	361	1880	2870	2392	181	288	240
CM5-8	310	448	373	1910	2876	2396	181	289	241
CM5-9	300	433	361	1920	2864	2387	181	289	241
CM5-10	295	403	336	1920	2943	2453	177	333	277
CM5-11	310	438	365	1970	2897	2414	186	307	256
CM5-12	300	456	380	1920	2982	2485	185	323	269
CM9-16	473	444	370	2620	2678	2232	289	268	223
PR8	595	484	403	4010	2866	2388	450	282	235
IJ13P	630	415	346	4280	2900	2417	452	278	232



Sample Date 9/27/05  
Analysis Date 9/27/05

## Crow Butte Project Monitor Well Laboratory Report

Well ID	Alkalinity			Conductivity			Chloride		
	(mg/L)	Alk SCL	Alk MCL	(µmho/cm)	Cond SCL	Cond MCL	(mg/L)	Cl SCL	Cl MCL
CM4-5	305	413	344	1950	3171	2642	192	336	280
CM4-6	300	405	337	1860	2812	2344	177	264	220
CM4-7	310	418	348	1860	3332	2777	181	409	341
CM7-1	305	410	342	1860	2563	2136	181	239	199
CM7-10	300	454	378	1910	2877	2398	185	297	247
CM7-11	300	432	360	1930	2817	2347	185	281	234
CM7-12	295	422	352	1940	2794	2328	185	289	241
CM9-16	475	444	370	2700	2678	2232	290	268	223
PR8	600	484	403	4010	2866	2388	448	282	235
PR15	345	444	370	1700	2792	2327	135	268	223
IJ13P	615	415	346	4240	2900	2417	454	278	232

Sample Date 10/4/05  
Analysis Date 10/4/05

## Crow Butte Project Monitor Well Laboratory Report

Well ID	Alkalinity			Conductivity			Chloride		
	(mg/L)	Alk SCL	Alk MCL	(µmho/cm)	Cond SCL	Cond MCL	(mg/L)	Cl SCL	Cl MCL
SM7-17	195	209	174	440	539	449	3.5	30	25
SM7-18	140	217	181	350	513	427	3.5	23	19
SM7-19	140	212	176	350	599	499	1.9	38	31
SM7-23	175	278	232	470	850	708	5	59	50
CM5-6	300	458	382	1880	2844	2370	181	292	244
CM5-7	300	433	361	1880	2870	2392	181	288	240
CM5-8	310	448	373	1910	2876	2396	181	289	241
CM5-9	300	433	361	1920	2864	2387	181	289	241
CM5-10	290	403	336	1920	2943	2453	179	333	277
CM5-11	310	438	365	1970	2897	2414	185	307	256
CM5-12	295	456	380	1920	2982	2485	185	323	269
CM9-16	480	444	370	2680	2678	2232	285	268	223
PR8	590	484	403	3990	2866	2388	446	282	235
IJ13P	605	415	346	4150	2900	2417	431	278	232



Sample Date 10/11/05  
Analysis Date 10/11/05

## Crow Butte Project Monitor Well Laboratory Report

Well ID	Alkalinity			Conductivity			Chloride		
	(mg/L)	Alk SCL	Alk MCL	(µmho/cm)	Cond SCL	Cond MCL	(mg/L)	Cl SCL	Cl MCL
SM4-7	185	513	393	560	1256	1039	22	127	88
SM4-9	270	374	312	670	1027	856	12	23	19
SM4-11A	290	554	462	710	1469	1224	11	139	115
SM7-1	185	252	210	470	677	564	3.8	30	25
SM7-2	160	259	216	420	661	551	4.6	34	29
SM7-3	175	256	214	470	700	583	6.2	35	29
SM7-4	168	255	212	410	671	559	3.1	33	28
SM9-1	165	255	212	440	648	540	6.5	31	26
SM9-2	160	230	192	400	665	554	5.4	72	60
CM2-5	330	490	408	1990	3394	2828	192	384	320
CM2-6	308	432	360	1880	3145	2621	181	295	246
CM2-7	305	436	364	1890	3059	2549	183	287	239
CM4-1	320	435	362	1970	2850	2375	200	251	209
CM4-2	320	419	349	2040	2951	2459	211	291	242
SM2-1	198	305	254	540	865	721	15	56	47
SM2-2	165	314	262	480	1210	1008	12	63	53
SM2-3	195	344	287	570	969	808	17	37	31
SM5-19	190	285	238	490	757	631	4.2	27	22
SM6-19	208	297	247	480	698	582	5.4	27	22
CM5-1	305	462	385	1910	2884	2404	181	304	253
CM5-2	300	448	373	1890	2860	2383	177	297	247
CM5-3	305	449	374	1890	2949	2458	185	324	270
CM5-4	310	454	378	1890	2896	2413	181	305	254
CM5-5	305	455	379	1890	2880	2400	185	297	247
CM9-16	480	444	370	2690	2678	2232	296	268	223

Sample Date 10/18/05  
Analysis Date 10/18/05

# Crow Butte Project Monitor Well Laboratory Report

Well ID	Alkalinity			Conductivity			Chloride		
	(mg/L)	Alk SCL	Alk MCL	(µmho/cm)	Cond SCL	Cond MCL	(mg/L)	Cl SCL	Cl MCL
SM8-9	235	353	294	510	886	738	4.6	23	19
SM8-11	220	323	269	540	792	660	7.7	24	20
CM6-1	290	432	360	1890	3168	2640	181	334	278
CM6-2	295	436	364	1940	2822	2352	185	279	233
CM6-3	298	441	367	1940	2808	2340	185	269	224
CM8-1	300	455	379	1940	3110	2592	183	372	310
CM8-2	300	395	329	1920	3125	2604	181	334	278
CM8-3	320	432	360	2060	3211	2676	203	367	306
CM8-4	298	428	356	1930	3125	2604	183	328	274
CM8-5	295	425	354	1930	3067	2556	183	328	274
CM8-6	300	432	360	1930	3067	2556	181	317	264
CM9-16	410	444	370	2360	2678	2232	250	268	223
PR8	580	484	403	3980	2866	2388	438	282	235
IJ13P	605	415	346	4010	2900	2417	406	278	232

Sample Date 10/25/05  
Analysis Date 10/25/05

# Crow Butte Project

## Monitor Well Laboratory Report

Well ID	Alkalinity			Conductivity			Chloride		
	(mg/L)	Alk SCL	Alk MCL	(µmho/cm)	Cond SCL	Cond MCL	(mg/L)	Cl SCL	Cl MCL
CM4-5	310	413	344	1960	3171	2642	194	336	280
CM4-6	300	405	337	1860	2812	2344	179	264	220
CM4-7	310	418	348	1860	3332	2777	181	409	341
CM7-1	305	410	342	1850	2563	2136	181	239	199
CM7-10	298	454	378	1910	2877	2398	185	297	247
CM7-11	295	432	360	1930	2817	2347	185	281	234
CM7-12	300	422	352	1940	2794	2328	185	289	241
CM9-16	368	444	370	2210	2678	2232	235	268	223
PR8	585	484	403	3980	2866	2388	447	282	235
PR15	350	444	370	1600	2792	2327	108	268	223
IJ13P	600	415	346	3980	2900	2417	409	278	232



Sample Date 11/1/05  
 Analysis Date 11/1/05

## Crow Butte Project Monitor Well Laboratory Report

Well ID	Alkalinity			Conductivity			Chloride		
	(mg/L)	Alk SCL	Alk MCL	(µmho/cm)	Cond SCL	Cond MCL	(mg/L)	Cl SCL	Cl MCL
SM8-9	235	353	294	510	886	738	4.6	23	19
SM8-11	218	323	269	540	792	660	7.9	24	20
CM6-1	290	432	360	1900	3168	2640	185	334	278
CM6-2	295	436	364	1940	2822	2352	185	279	233
CM6-3	295	441	367	1940	2808	2340	183	269	224
CM8-1	300	455	379	1940	3110	2592	183	372	310
CM8-2	300	395	329	1920	3125	2604	185	334	278
CM8-3	320	432	360	2050	3211	2676	208	367	306
CM8-4	300	428	356	1930	3125	2604	185	328	274
CM8-5	298	425	354	1930	3067	2556	184	328	274
CM8-6	300	432	360	1930	3067	2556	185	317	264
CM6-14	300	436	364	1930	2909	2424	177	297	247
CM9-16	340	444	370	2100	2678	2232	220	268	223
PR8	575	484	403	4010	2866	2388	438	282	235
IJ13P	590	415	346	3960	2900	2417	400	278	232