APPENDIX D

SUPPORTING TABLES AND FIGURES– TASK 3D STUDY AREA

Table D-1
Wyoming PRB Coal-related Development Disturbance Acreages in the Task 3D Study Area[1] (based on database)

Subwatershed	Lower and Upper Production Scenarios		
	Cumulative Disturbance Through Most Recent Year (acres)	Cumulative Permanently Reclaimed Areas through Most Recent Report Year (acres)	Cumulative Unreclaimed Areas through Most Recent Report Year (acres)
Original Base Year (Actual 2003)			
Antelope Creek	376	0	376
Dry Fork Cheyenne River	145	0	145
Little Powder River	339	0	339
Upper Belle Fourche River	1,317	0	1,317
Upper Cheyenne River	291	0	291
Upper Powder River	521	0	521
Total for Actual 2003	**2,989**	**0**	**2,989**
Current Base Year (Actual 2007)			
Antelope Creek	564	0	564
Dry Fork Cheyenne River	218	0	218
Little Powder River	339	0	339
Upper Belle Fourche River	1,620	0	1,620
Upper Cheyenne River	436	0	436
Upper Powder River	521	0	521
Total for Actual 2007	**3,698**	**0**	**3,698**
Reasonably Foreseeable Development (2010)			
Antelope Creek	563	0	563
Dry Fork Cheyenne River	218	0	218
Little Powder River	340	0	340
Upper Belle Fourche River	1,677	0	1,677
Upper Cheyenne River	536	0	536
Upper Powder River	521	0	521
Total for 2010	**3,855**	**0**	**3,855**
Reasonably Foreseeable Development (2015)			
Antelope Creek	781	0	781
Dry Fork Cheyenne River	218	0	218
Little Powder River	340	0	340
Upper Belle Fourche River	1,933	0	1,933
Upper Cheyenne River	1,009	0	1,009
Upper Powder River	521	0	521
Total for 2015	**4,802**	**0**	**4,802**
Reasonably Foreseeable Development (2020)			
Antelope Creek	781	0	781
Dry Fork Cheyenne River	218	0	218
Little Powder River	340	0	340
Upper Belle Fourche River	1,932	0	1,932
Upper Cheyenne River	1,009	0	1,009
Upper Powder River	521	0	521
Total for 2020	**4,801**	**0**	**4,801**

[1] Coal-related activities as defined for this study include coal-fired power plants, railroads, major (230-kV) transmission lines, and coal technology projects. However, as discussed in Section 3.7, disturbance associated with major (230-kV) transmission lines is not analyzed in this study as the disturbance related to existing lines is minimal and information in relation to RFD transmission lines is lacking. The Task 3D study area is presented in **Figure D-1**.

Table D-2
Wyoming PRB Oil and Gas and Related Development Disturbance Acreages in the Task 3D Study Area[1]
(based on database)

Subwatershed	Lower and Upper Production Scenarios		
	Cumulative Disturbance Through Most Recent Year (acres)	Cumulative Permanently Reclaimed Areas through Most Recent Report Year (acres)	Cumulative Unreclaimed Areas through Most Recent Report Year (acres)
Original Base Year (Actual 2003)[2]			
Antelope Creek	12,708	6,994	5,714
Dry Fork Cheyenne River	3,265	1,673	1,592
Little Powder River	31,600	20,998	10,602
Upper Belle Fourche River	54,899	36,366	18,563
Upper Cheyenne River	6,815	3,860	2,955
Upper Powder River	30,040	20,780	9,260
Total for 2003 Actual	**139,327**	**90,671**	**48,686**
Current Base Year (Actual 2007)			
Antelope Creek	9,914	5,572	4,342
Dry Fork Cheyenne River	1,160	569	591
Little Powder River	30,070	18,951	11,119
Upper Belle Fourche River	50,830	31,664	19,165
Upper Cheyenne River	4,653	2,952	1,701
Upper Powder River	42,348	27,788	14,559
Total for 2007 Actual	**138,975**	**87,496**	**51,477**
Reasonably Foreseeable Development (2010)			
Antelope Creek	13,652	7,947	5,704
Dry Fork Cheyenne River	1,432	858	574
Little Powder River	35,714	23,246	12,468
Upper Belle Fourche River	55,761	36,290	19,471
Upper Cheyenne River	5,418	3,286	2,132
Upper Powder River	67,570	42,725	24,825
Total for 2010	**179,547**	**114,353**	**65,194**
Reasonably Foreseeable Development (2015)			
Antelope Creek	18,498	12,507	5,991
Dry Fork Cheyenne River	1,717	1,030	688
Little Powder River	39,766	27,037	12,729
Upper Belle Fourche River	59,808	42,162	17,646
Upper Cheyenne River	5,426	3,646	1,780
Upper Powder River	111,696	72,245	39,450
Total for 2015	**236,911**	**158,628**	**78,283**
Reasonably Foreseeable Development (2020)			
Antelope Creek	22,609	17,094	5,515
Dry Fork Cheyenne River	1,997	1,277	720
Little Powder River	39,992	30,249	9,743
Upper Belle Fourche River	60,163	45,196	14,967
Upper Cheyenne River	5,432	3,955	1,477
Upper Powder River	155,092	112,703	42,388
Total for 2020	**285,285**	**210,474**	**74,811**

[1] Inclusive of conventional oil and gas and CBNG activities and major transportation pipelines. Disturbance associated with ancillary facilities (including gather lines and distribution power lines) has been factored in on a per well basis as discussed in Appendix E of this report. The Task 3D study area is presented in **Figure D-1**.

[2] The 2003 base year cumulative information was adjusted to reflect updated 2003 conventional oil and gas and CBNG information.

Table D-3
Wyoming PRB Total Development-related Disturbance Acreages
In the Task 3D Study Area[1]
(based on database)

Subwatershed	Lower Production Scenario			Upper Production Scenario		
	Cumulative Disturbance Through Most Recent Year (acres)	Cumulative Permanently Reclaimed Through Most Recent Report Year (acres)	Cumulative Unreclaimed Areas through Most Recent Report Year (acres)	Cumulative Disturbance Through Most Recent Year (acres)	Cumulative Permanently Reclaimed Areas through Most Recent Report Year (acres)	Cumulative Unreclaimed Areas through Most Recent Report Year (acres)
Original Base Year (Actual 2003)[2]						
Antelope Creek	27,811	10,442	17,369	27,811	10,442	17,369
Dry Fork Cheyenne River	3,265	1,673	1,592	3,265	1,673	1,592
Little Powder River	41,720	23,641	18,079	41,720	23,641	18,079
Upper Belle Fourche River	80,050	43,530	36,520	80,050	43,530	36,520
Upper Cheyenne River	27,210	11,813	15,397	27,210	11,813	15,397
Upper Powder River	30,040	20,780	9,260	30,040	20,780	9,260
Total for 2003 Actual	**210,096**	**111,879**	**98,217**	**210,096**	**111,879**	**98,217**
Current Base Year Actual 2007						
Antelope Creek	30,850	11,130	26,113	30,850	11,130	26,113
Dry Fork Cheyenne River	1,160	569	591	1,160	569	591
Little Powder River	42,203	22,066	22,917	42,203	22,066	22,917
Upper Belle Fourche River	76,747	38,649	44,785	76,747	38,649	44,785
Upper Cheyenne River	29,259	13,179	23,679	29,259	13,179	23,679
Upper Powder River	42,348	27,788	14,559	42,348	27,788	14,554
Total for 2007 Actual	**222,568**	**113,382**	**132,645**	**222,568**	**113,382**	**132,645**
Reasonably Foreseeable Development (2010)						
Antelope Creek	38,075	18,995	19,080	39,034	18,995	20,039
Dry Fork Cheyenne River	1,432	858	574	1,432	858	574
Little Powder River	48,471	27,689	20,783	49,086	28,089	20,997
Upper Belle Fourche River	86,256	49,034	37,222	87,580	50,267	37,313

Table D-3 (Continued)

Subwatershed	Lower Production Scenario			Upper Production Scenario		
	Cumulative Disturbance Through Most Recent Year (acres)	Cumulative Permanently Reclaimed Through Most Recent Report Year (acres)	Cumulative Unreclaimed Areas through Most Recent Report Year (acres)	Cumulative Disturbance Through Most Recent Year (acres)	Cumulative Permanently Reclaimed Areas through Most Recent Report Year (acres)	Cumulative Unreclaimed Areas through Most Recent Report Year (acres)
Upper Cheyenne River	36,405	19,989	16,416	37,294	20,189	17,105
Upper Powder River	67,570	42,725	24,845	67,570	42,725	24,845
Total for 2010	**278,209**	**159,291**	**118,919**	**281,996**	**161,124**	**120,872**
Reasonably Foreseeable Development (2015)						
Antelope Creek	48,985	29,155	19,831	50,506	29,155	21,351
Dry Fork Cheyenne River	1,717	1,029	688	1,717	1,029	688
Little Powder River	54,488	32,980	21,508	55,403	33,655	21,747
Upper Belle Fourche River	94,899	58,556	36,344	98,285	61,489	36,797
Upper Cheyenne River	42,363	25,850	16,513	43,849	26,450	17,399
Upper Powder River	111,696	72,245	39,450	111,696	72,245	39,450
Total for 2015	**354,148**	**219,816**	**134,334**	**361,456**	**224,024**	**137,432**
Reasonably Foreseeable Development (2020)						
Antelope Creek	60,324	40,542	19,781	62,936	40,042	22,894
Dry Fork Cheyenne River	1,997	1,277	720	1,997	1,277	720
Little Powder River	56,737	37,817	18,919	58,062	38,867	19,195
Upper Belle Fourche River	100,140	65,740	34,402	106,385	71,123	35,260
Upper Cheyenne River	48,437	31,858	16,578	49,902	32,658	17,244
Upper Powder River	155,092	112,703	42,388	155,092	112,703	42,388
Total for 2020	**422,727**	**289,937**	**132,789**	**434,374**	**296,670**	**137,702**

[1] Inclusive of disturbance associated with coal mining, coal-related activities, oil and gas and related development, and other development activities identified for this study. Other quantifiable activities include approximately 171 and 145 acres of disturbance associated with major water storage reservoirs in the Antelope Creek and Little Powder River subwatersheds (2003 through 2020), respectively. The Task 3D study area is presented in **Figure D-1**.

[2] The 2003 base year cumulative information was adjusted to reflect updated 2003 conventional oil and gas and CBNG information.

Note: Minor discrepancies in total acreages are the result of rounding.
Based on GIS, the total land area in the Task 3D study area encompasses 4,490,205 acres.

Table D-4
Wyoming PRB Coal Mine-related Production, Employment, and Water-related Information for the Task 3D Study Area[1]
(based on database)

Subwatershed	Lower Production Scenario				Upper Production Scenario			
	Annual Coal Production for Report Year (million tons)	Total Employment for Report Year[2]	Annual Water Consumption (mmgpy)	Annual Water Production[3] (acre-feet)	Annual Coal Production for Report Year (million tons)	Total Employment for Report Year	Annual Water Consumption (mmgpy)	Annual Water Production[3] (acre-feet)
Original Base Year (Actual 2003)								
Antelope Creek	110	1,386	763	472	110	1,386	763	472
Dry Fork Cheyenne River	0	0	0	0	0	0	0	0
Little Powder River	50	676	359	191	50	676	359	191
Upper Belle Fourche River	81	931	572	447	81	931	572	447
Upper Cheyenne River	122	1,704	946	276	122	1,704	946	276
Upper Powder River	0	0	0	0	0	0	0	0
Total for Actual 2003	**363**	**4,697**	**2,640**	**1,386**	**363**	**4,697**	**2,640**	**1,386**
Current Base Year (Actual 2007)								
Antelope Creek	126	1,400	763	472	126	1,400	763	472
Dry Fork Cheyenne River	0	0	0	0	0	0	0	0
Little Powder River	73	841	323	191	73	841	323	191
Upper Belle Fourche River	105	1,615	660	447	105	1,615	660	447
Upper Cheyenne River	124	1,677	946	276	124	1,677	946	276
Upper Powder River	0	0	0	0	0	0	0	0
Total for Actual 2007	**428**	**5,533**	**2,692**	**1,386**	**428**	**5,533**	**2,692**	**1,386**
Reasonably Foreseeable Development (2010)								
Antelope Creek	121	1,414	250	899	127	1,414	250	899
Dry Fork Cheyenne River	0	0	0	0	0	0	0	0
Little Powder River	57	715	259	165	70	739	333	165

Table D-4 (Continued)

Subwatershed	Lower Production Scenario				Upper Production Scenario			
	Annual Coal Production for Report Year (million tons)	Total Employment for Report Year[2]	Annual Water Consumption (mmgpy)	Annual Water Production[3] (acre-feet)	Annual Coal Production for Report Year (million tons)	Total Employment for Report Year	Annual Water Consumption (mmgpy)	Annual Water Production[3] (acre-feet)
Upper Belle Fourche River	100	1,566	489	675	125	1,617	513	675
Upper Cheyenne River	133	1,739	865	520	157	1,739	934	520
Upper Powder River	0	0	0	0	0	0	0	0
Total for 2010	**411**	**5,433**	**1,863**	**2,258**	**479**	**5,509**	**2,030**	**2,258**
Reasonably Foreseeable Development (2015)								
Antelope Creek	133	1,429	282	899	133	1,429	282	899
Dry Fork Cheyenne River	0	0	0	0	0	0	0	0
Little Powder River	69	758	303	165	88	833	377	165
Upper Belle Fourche River	117	1,561	549	675	154	1,603	187	675
Upper Cheyenne River	148	1,957	995	520	168	1,857	1,051	520
Upper Powder River	0	0	0	0	0	0	0	0
Total for 2015	**467**	**5,705**	**2,129**	**2,258**	**543**	**5,722**	**1,897**	**2,258**
Reasonably Foreseeable Development (2020)								
Antelope Creek	137	1,442	282	899	137	1,442	282	899
Dry Fork Cheyenne River	0	0	0	0	0	0	0	0
Little Powder River	71	767	333	165	103	946	406	165
Upper Belle Fourche River	133	1,649	565	675	166	1,617	630	675
Upper Cheyenne River	154	1,873	1,052	520	170	1,873	1,155	520
Upper Powder River	0	0	0	0	0	0	0	0
Total for 2020	**495**	**5,731**	**2,232**	**2,258**	**576**	**5,998**	**2,473**	**2,258**

[1] The Task 3D study area is shown in **Figure D-1**.
[2] Based on coal mine information, with the exception of power plant-related employees identified in the Little Powder River, Upper Belle Fourche River, and Upper Cheyenne River subwatershed numbers. There were 70 power plant-related employees identified for 2003, with an assumed operational work force of 100 per power plant for the other time periods.
[3] For purposes of this study, the annual coal mine-related water production is assumed to be the same under both the lower and upper production scenarios.

Table D-5
Wyoming PRB Oil and Gas Production and Conventional Oil and Gas Water-related Information for the Task 3D Study Area[1]
(based on database)

Subwatershed	Annual Oil Production for Report Year (barrels)	Annual Gas Production for Report Year[2] (mmcf)	Annual Conventional Oil- and Gas-related Water Production (mmgpy)	Annual Conventional Oil- and Gas-related Water Disposal (Discharge Volume Direct) (mmgpy)	Annual Conventional Oil- and Gas-related Water Disposal (Passive Treatment) (mmgpy)	Annual Conventional Oil- and Gas-related Water Disposal (Active Treatment) (mmgpy)	Annual Conventional Oil- and Gas-related Water Disposal (Discharge Volume to Infiltration Impoundments) (mmgpy)	Annual Conventional Oil- and Gas-related Water Disposal (Discharge Volume to Containment Impoundments) (mmgpy)	Annual Conventional Oil- and Gas-related Water Disposal (Land Application) (mmgpy)	Annual Conventional Oil- and Gas-related Water Disposal (Injection) (mmgpy)
Original Base Year (Actual 2003)										
Antelope Creek	831,582	31,887	5	3	0	0	2	0	0	0
Dry Fork Cheyenne River	398,311	10,277	1	0	0	0	0	0	0	0
Little Powder River	2,961,036	39,619	1,777	800	0	0	533	178	178	89
Upper Belle Fourche River	4,728,251	146,805	1,350	607	0	0	540	67	0	135
Upper Cheyenne River	153,924	26,899	13	7	0	0	5	1	0	1
Upper Powder River	2,305,549	65,143	133	47	0	13	53	7	7	7
Total for 2003 Actual	**11,378,653**	**320,629**	**3,280**	**1,464**	**0**	**13**	**1,133**	**253**	**185**	**231**
Current Base Year (Actual 2007)										
Antelope Creek	802,033	32,771	8	4	0	0	3	0	0	0
Dry Fork Cheyenne River	268,295	2,041	4	1	0	0	1	0	1	0
Little Powder River	2,437,033	23,756	2,181	982	0	0	654	218	218	109
Upper Belle Fourche River	4,033,653	58,013	1,387	624	0	0	555	69	0	139
Upper Cheyenne River	99,222	6,497	8	4	0	0	3	0	0	0
Upper Powder River	2,337,089	248,621	188	66	0	19	75	9	9	9
Total for 2007 Actual	**9,997,325**	**371,698**	**3,776**	**1,681**	**0**	**19**	**1,291**	**298**	**228**	**258**
Reasonably Foreseeable Development (2010)										
Antelope Creek	699,364	48,219	5	3	0	0	2	0	0	0
Dry Fork Cheyenne River	381,362	11,460	49	12	0	5	17	2	7	0
Little Powder River	4,178,501	19,932	2,508	1,129	0	0	752	251	251	125

Table D-5 (Continued)

Subwatershed	Annual Oil Production for Report Year (barrels)	Annual Gas Production for Report Year[2] (mmcf)	Annual Conventional Oil- and Gas-related Water Production (mmgpy)	Annual Conventional Oil- and Gas-related Water Disposal (Discharge Volume Direct) (mmgpy)	Annual Conventional Oil- and Gas-related Water Disposal (Passive Treatment) (mmgpy)	Annual Conventional Oil- and Gas-related Water Disposal (Active Treatment) (mmgpy)	Annual Conventional Oil- and Gas-related Water Disposal (Discharge Volume to Infiltration Impoundments) (mmgpy)	Annual Conventional Oil- and Gas-related Water Disposal (Discharge Volume to Containment Impoundments) (mmgpy)	Annual Conventional Oil- and Gas-related Water Disposal (Land Application) (mmgpy)	Annual Conventional Oil- and Gas-related Water Disposal (Injection) (mmgpy)
Upper Belle Fourche River	6,612,754	64,313	1,888	849	0	0	755	94	0	189
Upper Cheyenne River	54,368	6,930	5	3	0	0	2	0	0	0
Upper Powder River	1,894,972	406,348	110	38	0	11	44	5	5	5
Total for 2010	**13,821,319**	**568,291**	**4,563**	**2,034**	**0**	**16**	**1,572**	**354**	**264**	**321**
Reasonably Foreseeable Development (2015)										
Antelope Creek	640,214	49,201	4	2	0	0	1	0	0	0
Dry Fork Cheyenne River	349,581	11,129	52	13	0	5	18	3	8	1
Little Powder River	3,807,528	29,352	2,285	1,028	0	0	686	229	229	114
Upper Belle Fourche River	5,963,186	55,380	1,702	766	0	0	681	85	0	170
Upper Cheyenne River	52,249	5,140	4	2	0	0	2	0	0	0
Upper Powder River	1,723,898	623,908	100	35	0	10	40	5	5	5
Total for 2015	**12,536,656**	**774,110**	**4,148**	**1,847**	**0**	**15**	**1,428**	**322**	**241**	**290**
Reasonably Foreseeable Development (2020)										
Antelope Creek	581,064	44,279	4	2	0	0	1	0	0	0
Dry Fork Cheyenne River	317,801	10,562	42	10	0	4	15	2	6	0
Little Powder River	3,436,555	18,159	2,063	928	0	0	619	206	206	103
Upper Belle Fourche River	5,313,617	42,627	1,517	683	0	0	607	76	0	152
Upper Cheyenne River	50,131	3,609	4	2	0	0	1	0	0	0
Upper Powder River	1,555,456	667,179	90	32	0	9	36	5	5	5
Total for 2020	**11,254,625**	**786,410**	**3,719**	**1,657**	**0**	**13**	**1,279**	**289**	**217**	**260**

[1] The Task 3D study area is shown in **Figure D-1**.
[2] Natural gas produced by conventional gas and CBNG wells.

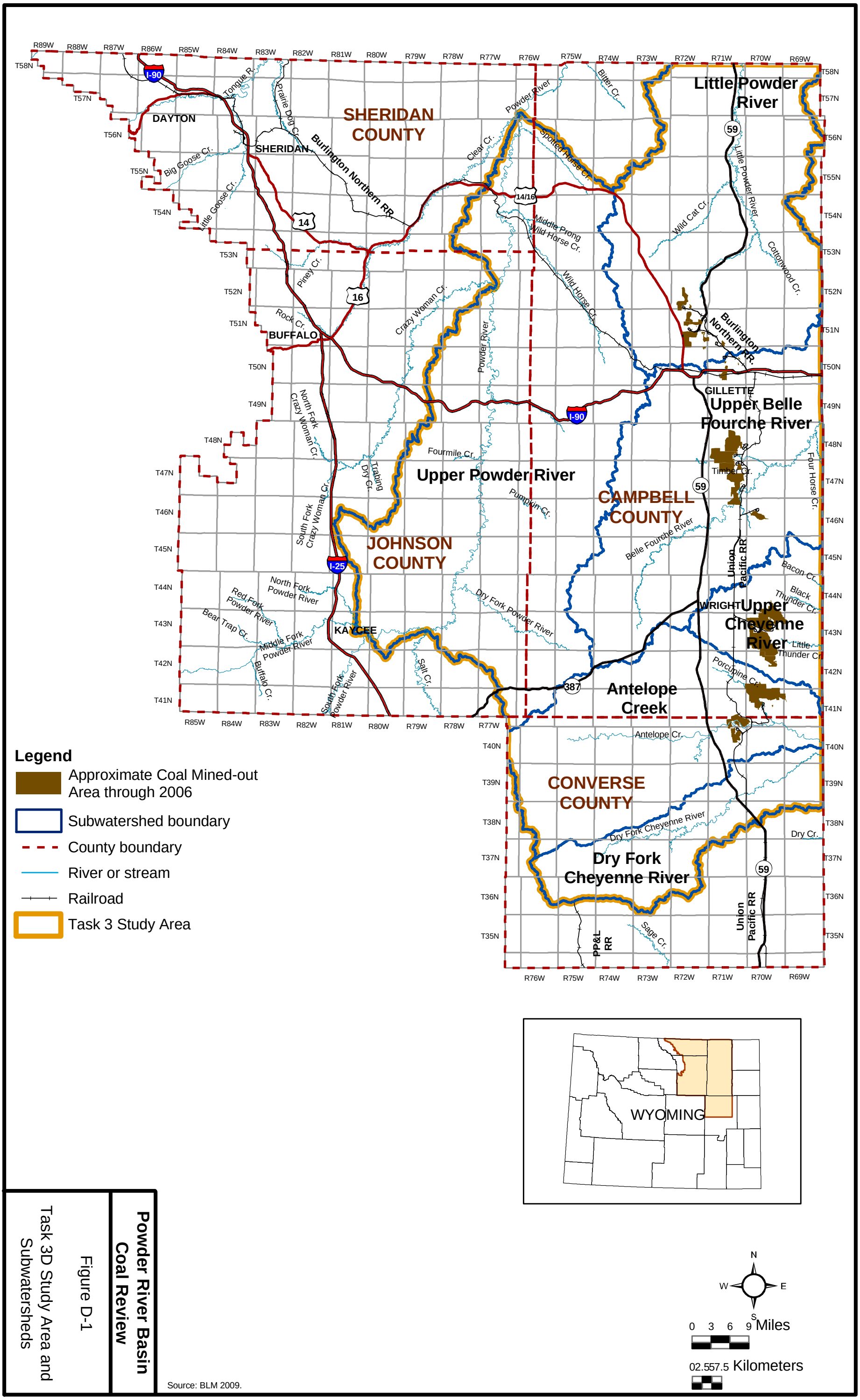
Table D-6
Wyoming PRB CBNG Water-related Information
for the Task 3D Study Area[1]
(based on database)

Subwatershed	Annual CBNG-related Water Production (mmgpy)	Annual CBNG-related Water Disposal (Discharge Volume Direct) (mmgpy)	Annual CBNG-related Water Disposal (Passive Treatment) (mmgpy)	Annual CBNG-related Water Disposal (Active Treatment) (mmgpy)	Annual CBNG-related Water Disposal (Discharge Volume to Infiltration Impoundments) (mmgpy)	Annual CBNG-related Water Disposal (Discharge Volume to Containment Impoundments) (mmgpy)	Annual CBNG-related Water Disposal (Land Application) (mmgpy)	Annual CBNG-related Water Disposal (Injection) (mmgpy)
Original Base Year (Actual 2003)								
Antelope Creek	1,290	710	0	0	452	65	0	65
Dry Fork Cheyenne River	0	0	0	0	0	0	0	0
Little Powder River	2,753	1,239	0	0	826	275	275	138
Upper Belle Fourche River	7,566	3,405	0	0	3,026	378	0	757
Upper Cheyenne River	1,078	593	0	0	377	54	0	54
Upper Powder River	5,237	1,833	0	524	2,095	262	262	262
Total for 2003 Actual	**17,924**	**7,779**	**0**	**524**	**6,776**	**1,034**	**537**	**1,274**
Current Base Year (Actual 2007)								
Antelope Creek	785	432	0	0	275	39	0	39
Dry Fork Cheyenne River	100	25	0	10	35	5	15	1
Little Powder River	2,483	1,117	0	0	745	248	248	124
Upper Belle Fourche River	2,943	1,324	0	0	1,177	147	0	294
Upper Cheyenne River	301	166	0	0	105	15	0	15
Upper Powder River	13,880	4,858	0	1,388	5,552	694	694	694
Total for 2007 Actual	**20,492**	**7,922**	**0**	**1,398**	**7,889**	**1,149**	**957**	**1,168**

Table D-6 (Continued)

Subwatershed	Annual CBNG-related Water Production (mmgpy)	Annual CBNG-related Water Disposal (Discharge Volume Direct) (mmgpy)	Annual CBNG-related Water Disposal (Passive Treatment) (mmgpy)	Annual CBNG-related Water Disposal (Active Treatment) (mmgpy)	Annual CBNG-related Water Disposal (Discharge Volume to Infiltration Impoundments) (mmgpy)	Annual CBNG-related Water Disposal (Discharge Volume to Containment Impoundments) (mmgpy)	Annual CBNG-related Water Disposal (Land Application) (mmgpy)	Annual CBNG-related Water Disposal (Injection) (mmgpy)
Reasonably Foreseeable Development (2010)								
Antelope Creek	1,173	645	0	0	411	59	0	59
Dry Fork Cheyenne River	73	18	0	7	26	4	11	1
Little Powder River	3,248	1,461	0	0	974	325	325	162
Upper Belle Fourche River	3,196	1,438	0	0	1,279	160	0	320
Upper Cheyenne River	357	196	0	0	125	18	0	18
Upper Powder River	22,762	7,967	0	2,276	9,105	1,138	1,138	1,138
Total for 2010	**30,809**	**11,726**	**0**	**2,284**	**11,919**	**1,703**	**1,474**	**1,697**
Reasonably Foreseeable Development (2015)								
Antelope Creek	1,244	684	0	0	436	62	0	62
Dry Fork Cheyenne River	132	33	0	13	46	7	20	1
Little Powder River	3,032	1,365	0	0	910	303	303	152
Upper Belle Fourche River	2,740	1,233	0	0	1,096	137	0	274
Upper Cheyenne River	259	143	0	0	91	13	0	13
Upper Powder River	35,059	12,271	0	3,506	14,024	1,753	1,753	1,753
Total for 2015	**42,468**	**15,729**	**0**	**3,519**	**16,602**	**2,275**	**2,076**	**2,255**
Reasonably Foreseeable Development (2020)								
Antelope Creek	1,117	614	0	0	391	56	0	56
Dry Fork Cheyenne River	148	37	0	15	52	7	22	1
Little Powder River	1,828	822	0	0	548	183	183	91
Upper Belle Fourche River	2,077	935	0	0	831	104	0	208
Upper Cheyenne River	176	97	0	0	62	9	0	9
Upper Powder River	37,517	13,131	0	3,762	15,007	1,876	1,876	1,876
Total for 2020	**42,863**	**15,636**	**0**	**3,767**	**16,890**	**2,235**	**2,081**	**2,241**

[1] The Task 3D study area is shown in **Figure D-1**.



Source: BLM 2009.

Powder River Basin Coal Review

Figure D-1

Task 3D Study Area and Subwatersheds

11/09/09