

### 3.9.2 Reasonably Foreseeable Development

No plans for the construction and operation of any petroleum refineries in the Wyoming portion of the PRB have been identified.

### 3.9.3 Data Sources

Data sources that were reviewed for potential information relative to refineries in the Wyoming PRB study area included databases maintained by the USDOE, Energy Information Administration and input from the CCEDC and Wyoming Business Council.

### 3.9.4 Assumptions

There are no assumptions relative to refineries.

## 3.10 Reservoirs and Other Water Developments

Reservoirs in the PRB study area were identified based on the Powder/Tongue River Basin Water Plan (HKM et al. 2002a) and Northeast Wyoming River Basins Water Plan (HKM et al. 2002b). These plans, which encompass the PRB study area, were prepared for the Wyoming Water Development Commission for their Basin Planning Program. The plans identified the key water supply reservoirs (generally 1,000 acre-feet or greater) in these basins; industrial ponds and impoundments were not addressed in the plans.

Industrial ponds or impoundments associated with mining and CBNG development occur within the study area. For purposes of this study, impoundments associated with coal mining activity have been accounted for in the mine-related disturbance areas. The disturbance area associated with CBNG-related impoundments has been factored in on a per well basis as discussed in Appendix B. As of 2000, there were a total of 1,976 stock water ponds in the study area (BLM 2003a); however, based on the assumed low overall associated acreage per subwatershed, they have been eliminated from further analysis.

### 3.10.1 Past and Present Development

Currently, there are 14 key water storage reservoirs in the Powder/Tongue River Basin and 5 key water storage reservoirs in the Northeast Wyoming River Basins (HKM Engineering et al. 2003a,b). Three of the key water storage reservoirs located in the Powder/Tongue River Basin planning area (Healy, Lake Desmet, and Muddy Guard No. 2) and two of the key water storage reservoirs in the Northeast Wyoming River Basins planning area (Gillette and Betty No. 1) occur in the Wyoming PRB study area (**Figure 3-4**). These reservoirs provide for irrigation water and recreational activities.

## **3.0 Past, Present, and Reasonably Foreseeable Development**

---

### **3.10.2 Reasonably Foreseeable Development**

Based on the Powder/Tongue River Basin Water Plan (HKM Engineering et al. 2002a) and the Northeast Wyoming River Basins Water Plan (HKM Engineering et al. 2002b) that were prepared for the Wyoming Water Development Commission for its Basin Planning Program, there are long-range projections for development of additional reservoirs in the Wyoming PRB study area. However, none of these reservoirs have reached the planning stage; therefore, their likelihood is currently unknown. As a result, they have been eliminated from further analysis.

### **3.10.3 Data Sources**

Information presented in the Powder/Tongue River Basin Water Plan (HKM Engineering et al. 2002a) and the Northeast Wyoming River Basins Water Plan (HKM Engineering et al. 2002b) was used to develop the reservoirs and other water developments section of this report. These plans were developed for the Wyoming Water Development Commission for their Basin Planning Program.

### **3.10.4 Assumptions**

No assumptions were required for this study to define specific impact-causing parameters for reservoirs and water developments.

## **3.11 Other Industrial Manufacturing**

### **3.11.1 Past and Present Development**

There are a number of existing industrial manufacturing establishments located in the Wyoming PRB study area. Most are relatively small with fewer than 25 employees and predominately serve local and regional markets, the majority of which are directly or indirectly related to energy resource development and production. For example, L&H Welding and Machine based in Gillette and the largest industrial manufacturing firm in the region specializes in repairs, rebuilding, and manufacturing for the mining industry. Other industrial manufacturing establishments in the region provide metal fabrication, metal plating, custom and precast concrete products, and specialized chemical products and services. (Dun & Bradstreet 2003). Over the years, some of these firms have expanded such that they now support activities and serve markets outside the PRB region. However, they remain dependent upon the local and regional markets to sustain their existing operations.

### **3.11.2 Reasonably Foreseeable Development**

It is anticipated that chemical feed stock plants supplying the mining industry with materials such as ammonium nitrate fuel oil (ANFO) would be expanded. It is assumed that increased coal production would result in an increased demand for fuels and explosives. This increased demand could result in the need for the development of new off site chemical feed stock plants in the study area. Although CANDO reports that a company is considering this prospect (Werner 2004),