Figure 4.1-1

Existing Zoning and Noise Monitoring Locations
Figure 4.1-2
Locations of Receptor Analysis Points

LEGEND:
1. Ambient noise monitoring sites

Scale in Miles
### Figure 4.1-3

#### Typical Range of Sound Levels for Construction Equipment

<table>
<thead>
<tr>
<th>Equipment Type</th>
<th>Noise Level (dBA) at 50 Feet</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>60</td>
</tr>
<tr>
<td><strong>Phase II Expansion</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Satsop CT Project</strong></td>
<td></td>
</tr>
</tbody>
</table>

#### Equipment Powered by Internal Combustion Engines
- Compactors (Rollers)
- Front Loaders
- Backhoes
- Tractors
- Scrapers, Graders
- Pavers
- Trucks

#### Equipment Powered by Internal Combustion Engines
- Concrete Mixers
- Concrete Pumps
- Cranes (Moveable)
- Cranes (Derrick)

#### Stationary Equipment
- Pumps
- Generators
- Compressors

#### Impact Equipment
- Pneumatic Wrenches
- Jackhammers and Rock Drills
- Impact Pile Drivers (Peaks)

#### Other
- Vibrator
- Saws
Figure 4.1-4

Predicted Phase II (Only) Noise Level Contours (With Ambient) at Project Site

SOURCE: Alliance Acoustical Consultants, Inc.
Predicted Phase I plus Phase II Noise Level Contours (With Ambient) at Project Site

SOURCE: Alliance Acoustical Consultants, Inc.