

## 5.4 Geologic Resources

Impacts on geologic resources would result principally from extraction of basalt, sand, gravel, and silt/loam from the Area C borrow pit for use in capping the disposal facilities upon closure. Geologic resources would also be used for construction of trenches and facilities as well as routine maintenance and operations. The amounts of these geologic resources committed in the alternatives are quantified in Section 5.10. A comparison among the alternatives of quantities that would be needed with and without needed ILAW resources is summarized in Table 5.13 listed below. Impacts on scenic aspects of topography are described in Section 5.12. No other impacts on geologic resources were identified.

**Table 5.13.** Comparison of Commitments of Geologic Resources Without ILAW Resources, Millions of m<sup>3</sup>

	Gravel & Sand	Silt/Loam	Basalt	Total
<b>Alternative Group A (without ILAW)</b>				
Hanford Only	0.443	0.738	0.443	1.624
Lower Bound	0.446	0.743	0.446	1.635
Upper Bound	0.472	0.786	0.472	1.730
<b>Alternative Group B (without ILAW)</b>				
Hanford Only	0.490	0.816	0.490	1.796
Lower Bound	0.497	0.829	0.497	1.823
Upper Bound	0.561	0.935	0.561	2.057
<b>Alternative Group C (without ILAW)</b>				
Hanford Only	0.443	0.738	0.443	1.624
Lower Bound	0.446	0.743	0.446	1.635
Upper Bound	0.472	0.786	0.472	1.730
<b>Alternative Group D (without ILAW)</b>				
Hanford Only	0.441	0.736	0.441	1.618
Lower Bound	0.441	0.736	0.441	1.618
Upper Bound	0.457	0.761	0.457	1.675
<b>Alternative Group E (without ILAW)</b>				
Hanford Only	0.441	0.736	0.441	1.618
Lower Bound	0.441	0.736	0.441	1.618
Upper Bound	0.457	0.761	0.457	1.675
<b>No Action Alternative (without ILAW)</b>				
Hanford Only	0.010	0.030	0.008	0.048
Lower Bound	0.010	0.030	0.008	0.048
<b>ILAW</b>				
Vault	2.603 <sup>(b)</sup>	--	--	--
Multiple trench	0.770 <sup>(b)</sup>	--	--	--
Single trench	0.550 <sup>(b)</sup>	--	--	--
(a) Conversion factors: 1 m <sup>3</sup> = about 1.3 yd <sup>3</sup>				
(b) Total fill (sand, gravel, silt, and rip rap).				