

APPENDIX 2

DIXIE VALLEY SEISMIC DATA

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Baseline Conceptual Model

Table 1. The following stations (within 200 km of the study area) are used for seismic event and ambient - noise tomographic analyses in Dixie Valley. Three stations, shown with red letters, are in DVSA; see text for explanation of DVSA.

Station	Channel	Lat (deg)	Long (deg)	Elevation (m)
ADH	SH	37.9682	-118.7163	2.0430
ANT	SH	37.9177	-118.5650	2.0400
BMN	BH	40.4315	-117.2228	1.4800
BMO	BH	40.4315	-117.2218	1.5940
BON	SH	37.9551	-118.3027	2.5820
DIX	SH	39.8021	-118.0830	1.1430
DNY	BH	41.0861	-119.2789	2.0135
FPK	SH	39.2250	-118.1516	2.4940
HCK	SH	38.0754	-118.5932	1.8900
HYX	SH	39.7727	-117.7642	1.6610
KVN	BH	39.0484	-118.1012	1.8290
LHV	SH	38.2513	-118.5049	2.3530
LUL	SH	38.0522	-119.1813	2.2430
MCC	SH	37.9194	-119.0253	2.2550
MIL	SH	38.0247	-118.1868	2.0300
MMC	SH	38.3607	-119.1293	2.5480
MNA	BH	38.4341	-118.1555	1.5040
MNV	BH	38.4328	-118.1531	1.5240
MPT	SH	38.0633	-118.7804	2.1780
PAH	BH	39.7106	-119.3854	1.5200
POW	EH	38.4094	-118.6328	1.8900
RYN	SH	38.6281	-118.5238	1.6510
SJC	SH	38.3491	-119.4400	2.2460
TNP	EH	38.0820	-117.2191	1.9390
TPH	BH	38.0750	-117.2230	1.8840
VIP	EH	39.7555	-119.4615	2.4990
WAK	EH	38.5043	-119.4382	1.8900
WHR	BH	40.0362	-118.3621	1.4940
YER	EH	38.9852	-119.2406	1.8570
M07A	BH	41.3884	-119.1711	1.4000
M08A	BH	41.4483	-118.3792	1.2884
M09A	BH	41.4230	-117.4497	1.3558
N07B	BH	40.7797	-118.9711	1.3020
N08A	BH	40.7811	-118.1337	1.4929
N09A	BH	40.8520	-117.5244	1.6173
O07A	BH	40.1614	-118.8772	1.2030
O08A	BH	40.2903	-118.1550	2.1376
O09A	BH	40.1697	-117.1899	1.4917
P07A	BH	39.5399	-118.8893	1.2186
P08A	BH	39.6946	-118.0800	1.0402
P09A	BH	39.5516	-117.1395	1.7377
Q07A	BH	38.9383	-118.8078	1.2759
Q08A	BH	38.8606	-117.9316	1.4115
Q09A	BH	38.8340	-117.1816	1.7035
R06C	BH	38.5226	-119.4509	1.6980
R07C	BH	38.0890	-119.0469	1.9960
R08A	BH	38.3489	-118.1064	1.4198
R09A	BH	38.2397	-117.0718	1.7590

Table 2. Earthquakes in Dixie Valley located by the USGS and re-located at the Nevada Seismological Laboratory using HYPODD (Waldhauser and Elsworth, 2000). Relocation of events is important for DVSA fault description; see text for explanation of DVSA.

	USGS locations				HYPODD - relocated events		
	<i>Longitude (deg)</i>	<i>Latitude (deg)</i>	<i>Depth (km)</i>	<i>M_L</i>	<i>Longitude (deg)</i>	<i>Latitude (deg)</i>	<i>Depth (km)</i>
1	-117.8553	39.9591	6.250	4.2	-117.857096	39.957166	6.481
2	-117.8587	39.9515	3.740	2.1	-117.862712	39.951746	3.628
3	-117.8713	39.9322	10.170	---	-117.871672	39.931694	9.948
4	-117.8697	39.9353	5.950	---	-117.870272	39.933256	5.249
5	-117.8529	39.9534	11.040	---	-117.859098	39.950073	11.601
6	-117.8720	39.9385	5.520	---	-117.869027	39.940409	6.592
7	-117.8582	39.9468	12.850	2.3	-117.854150	39.951355	12.736
8	-117.8764	39.9753	5.830	3.6	-117.875659	39.974251	6.489
9	-117.8709	39.9668	7.270	3.8	-117.871419	39.965568	7.735
10	-117.8751	39.9446	0.000	3.6	-117.8751	39.9446	0.000
11	-117.8531	39.9472	0.000	---	-117.8531	39.9472	0.000
12	-117.8908	39.9736	0.000	---	-117.8908	39.9736	0.000
13	-117.8903	39.9626	0.000	---	-117.8903	39.9626	0.000
14	-117.8213	39.9223	0.000	---	-117.8213	39.9223	0.000
15	-117.8117	39.9670	3.290	---	-117.8117	39.9670	3.290
16	-117.8500	39.9258	17.890	---	-117.845443	39.928935	14.367
17	-117.9614	39.7926	0.000	---	-117.9614	39.7926	0.000

Table 3. Seismic velocity models available in Dixie Valley. The depth column contains depth (km) with layer minimum and maximum depth range. The "Area" column contains latmin, latmax, lonmin, lonmax for every model, where available, or only (lat, lon) when the model is available in one location. Corner values are relative to the Project Area outline (see Figure 1 in main body of baseline report). Negative depth shows elevation. The seismic models on the reflection lines in Dixie Valley (Anonymous, 1998) are described relative to the line end (for example, the model at 2 km from NW means that the reference point is the northwest-most line point). Some sources are from seismic models described in the main body of this report, see Section 3.5.

Depth (km)		Area Corner Values (latitude,longitude)	Vp (km/s)	Vs (km/s)	Density (g/cm ³)	Qp	Qs	Poisson ratio	Source
min	max								
-1.5	0	40.2, -117.6	4.0						Catchings, 1992 (sp4c ¹)
0	2		4.5						
2	11		6.0						
11	13		6.15						
13	20		6.3						
20	26		6.6						
26	29.5		7.4						
29.5	36		8.0						
-1	0	40.2, -117.4	2.5						Catchings, 1992 (sp4d ¹)
0	1		4						
1	4		4.5						
4	11		6.0						
11	13		6.15						
13	19		6.3						
19	24		6.6						
24	29.5		7.4						
29.5	36		8						
-1.5	0	40.3, -117.0	4.0						Catchings, 1992 (SP5 ¹)
0	1		4.0						
1	6		5.7						
6	14		6.0						
14	15		6.15						
15	21		6.3						
21	25		6.6						
25	29		7.4						
29	36		8.0						
-1.0	1	40.2, -117.9	2.5						Catchings, 1992 (SP4 ¹)
1	2		4.0						
2	8		4.5						
8	11		6.0						
11	12		6.15						
12	20		6.3						
20	24		6.6						
24	29		7.4						
29	36		8						
0	3	General Model	1.65	1	2	163	80		AK135
3	13		5.8	3.2	2.6	1478	600		
13	21		6.8	3.9	2.92	1368	600		
21	46		8.0355	4.48	3.64	950	394		
46	53		8.0379	4.4856	3.5801	872	417		
0	2.5	All-Basin and Range	3.5	2.1					Priestley and Brune (1978)
2.5	20		6.05	3.57	3.02				
20	35		6.66	3.85	3.1				
35	65		7.785	4.5	3.3				

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Depth (km)		Area Corner Values (latitude,longitude)	Vp (km/s)	Vs (km/s)	Density (g/cm ³)	Qp	Qs	Poisson ratio	Source
min	max								
0	2.5	Battle Mtn	3.5	2.1					Priestley and Brune (1978)
2.5	18		6.05	3.7					
18	32		6.7	3.9					
0	0.5	39, -117; 40, -119	2.3	1.2	2.1				CRUST5.1
0.5	12		6.1	3.5	2.75				
12	23.5		6.3	3.6	2.8				
23.5	35		6.6	3.6	2.9				
35	50		8	3.6	3.3				
0	0.11	39.5, -119.5 40.5, -118.5		1.08					CU_SDT1.0
0.11	10.68			3.2146					
10.68	23.46			3.59					
23.46	29.63			3.6171					
29.63	35			4.4					
0	0.29	39.5, -118.5 40.5, -117.5		1.197					CU_SDT1.0
0.29	10.27			3.3913					
10.27	21.04			3.3917					
21.04	26.94			3.3975					
26.94	27.82			4.4053					
27.82	28.71			4.4046					
28.71	29.61			4.4036					
29.61	30.50			4.4021					
30.5	36			4.3901					
0	0.5	39, -118.25	3.3						Stauder and Ryal (1967)
0.5	2	39.25, -118	4.7						
-1.2	0.23	39.63, -118.183 39.63, -118.175	1.4		2.2				Abbott et al., (2001)
0.23	0.4		2.5		2.3				
0.4	0.43		2.75		2.67				
0.45	2		3.35		2.67				
-1.2	0.2	39.63, -118.175 39.63, -118.165	1.4		2.2				Abbott et al., (2001)
0.2	0.4		1.9		2.3				
0.4	0.5		2.1		2.3				
0.5	0.6		2.3		2.67				
0.6	2		3.4		2.67				
-1.2	0.2	39.63, -118.165 39.63, -118.157	2.1		2.2				Abbott et al., (2001)
0.2	0.33		2.5		2.3				
0.33	0.5		2.8		2.3				
0.5	0.6		3		2.3				
0.6	2		3.4		2.67				

Table 3. Seismic velocity models available in Dixie Valley. The depth column contains depth (km) with layer minimum and maximum depth range. The "Area" column contains latmin, latmax, lonmin, lonmax for every model, where available, or only (lat, lon) when the model is available in one location. Corner values are relative to the Project Area outline (see Figure 1 in main body of baseline report). Negative depth shows elevation. The seismic models on the reflection lines in Dixie Valley (Anonymous, 1998) are described relative to the line end (for example, the model at 2 km from NW means that the reference point is the northwest-most line point). Some sources are from seismic models described in the main body of this report, see Section 3.5.

Depth (km)		Area Corner Values (latitude,longitude)	Vp (km/s)	Vs (km/s)	Density (g/cm ³)	Qp	Qs	Poisson ratio	Source
min	max								
-1.2	0.2	39.63, -118.139 39.63, -188.139			2.2				Abbott et al., (2001)
0.2	1				2.3				
1	1.9				2.5				
1.9	3				2.67				
-1.2	0.2	39.63, -118.129 39.63, -118.129			2.2				Abbott et al., (2001)
0.2	1				2.3				
1	2.4				2.5				
2.4	3				2.67				
-1.2	0.2	39.63, -118.093 39.63, -118.093			2.2				Abbott et al., (2001)
0.2	1				2.3				
1	2.7				2.5				
2.7	3				2.67				
0	11.2	150km from Goldstrike	6						Louie et al., (2004)
11.2	21.3	37.458908	6.5						
21.3	30	-117.82103	7						
0	0.08	0-0.7 km from SW 39.9547, -117.8403 39.9609, -117.8402	1.5						SRCIN - A (Anonymous, 1998)
0.08	0.28		2.5						
0.28	0.7		3.5						
0.7	1.9		3.9						
1.9	2		4.2						
2	3		4.7						
0	0.36	0.7-1.2 km from SW 39.9609, -117.8402 39.9654, -117.8401	1.5						SRCIN - A (Anonymous, 1998)
0.36	0.7		2.5						
0.7	0.9		3.5						
0.9	1.2		3.9						
1.2	1.4		4.5						
1.4	3		5.1						
0	0.16	1.2- 3 km from SW 39.9654, -117.8401, 39.9816, -117.8401	1.5						SRCIN - A (Anonymous, 1998)
0.16	1.2		2.7						
1.2	1.32		3.5						
1.32	1.45		4.2						
1.45	3		5.1						
0	0.125	0-6.2 km	1.5						SRCIN - B (Anonymous, 1998)
0.125	0.9		2.8						
0.9	1		3.5						
1	1.3		4.2						
1.3	3		5.1						

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Depth (km)		Area Corner Values (latitude,longitude)	Vp (km/s)	Vs (km/s)	Density (g/cm ³)	Qp	Qs	Poisson ratio	Source
min	max								
0	0.125	0 -4.4 km from SW 39.9306, -117.9381 39.9425 -117.8885	1.5						(Anonymous, 1998) SRCIS-A
0.125	0.2		2.5						
0.2	0.7		2.8						
0.7	0.8		3.5						
0.8	0.9		4.2						
0.9	3		5.1						
0	0.125	4.4 - 5.7 km from SW 39.9425 -117.8885 39.9445, -117.8798	1.5						(Anonymous, 1998) SRCIS-A
0.125	0.2		2.7						
0.2	0.7		2.8						
0.7	0.8		3.5						
0.8	0.9		4.2						
0.9	3		5.1						
0	0.125	0-3.7 km from SW	1.5						(Anonymous, 1998) SRCIS-B
0.125	0.5		2.8						
0.5	0.9		3.4						
0.9	1		4.2						
1	3		5.1						
0	0.125	3.7-4.49 km from SW	1.5						(Anonymous, 1998) SRCIS-B
0.125	1		2.8						
1	3		4.2						
0	0.25	0-0.5 km from NW 39.9981, -117.8347 39.9941, -117.8319	1.7						SRC3 NW-SE
0.25	0.3		2.9						
0.3	0.6		3.5						
0.6	1		4.1						
1	1.7		4.6						
1.7	2.4		4.8						
2.4	3		4.9						
0	0.2	0.5-1 km from NW 39.9941, -117.8319 39.9901, -117.8291	1.9						SRC3 NW-SE
0.2	0.4		3						
0.4	1		3.4						
1	1.1		4.6						
1.1	2.1		4.9						
2.1	3		5						
0	0.2	1-2 km from NW 39.9901, -117.8291, 39.9821, -117.8235	1.5						SRC3 NW-SE
0.2	0.4		1.7						
0.4	1		2.9						
1	1.2		3.4						
1.2	2		4.7						
2	3		4.9						

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Depth (km)		Area Corner Values (latitude,longitude)	Vp (km/s)	Vs (km/s)	Density (g/cm ³)	Qp	Qs	Poisson ratio	Source
min	max								
0	0.200	2-6 km from NW 39.9821, -117.8235 39.9511, -117.8017	1.54						SRC3 NW-SE
0.2	1		1.9						
1	1.25		3.2						
1.25	2.7		3.6						
2.7	3		4.2						
0	0.7	0 - 6 km from NE 39.9861, -117.7951 39.9461, -117.8446	2.2						(Anonymous, 1998) Line 101
0.7	0.75		3.2						
0.75	0.9		4.1						
0.9	1.3		4.7						
1.3	1.7		4.8						
1.7	3		5						
0	0.6	6-7.5 km from NE 39.9461, -117.8446 39.9371, -117.8557	2.2						(Anonymous, 1998) Line 101
0.6	0.7		3.2						
0.7	0.8		4.1						
0.8	1.2		4.8						
1.23	3		5						
0	0.7	7.5-13 km from NE 39.9371, -117.8557 39.9011, -117.9002	2.2						(Anonymous, 1998) Line 101
0.7	0.75		3						
0.75	0.85		4.1						
0.85	1		4.7						
1	1.5		4.8						
1.5	3		5.1						
0	0.3	13-15.3 km from NE 39.9011, -117.9002, 39.8861, -117.9188	1.6						(Anonymous, 1998) Line 101
0.3	0.7		2.2						
0.7	0.75		3.1						
0.75	1		4						
1	1.5		4.3						
1.5	2		4.7						
2	2.5		4.8						
2.5	3		5.1						
0	0.35	0-3 km from NW 39.9852, -117.8534 39.9662, -117.8283	2.1						(Anonymous, 1998) Line 103
0.35	0.4		3.1						
0.4	0.45		3.6						
0.45	0.5		4.2						
0.5	3		5						
0	0.35	3-3.2 km from NW 39.9662, -117.8283 39.9642 -117.8257	2.1						(Anonymous, 1998) Line 103
0.35	0.44		3.1						
0.44	0.5		3.6						
0.5	3		4.2						

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Depth (km)		Area Corner Values (latitude,longitude)	Vp (km/s)	Vs (km/s)	Density (g/cm ³)	Qp	Qs	Poisson ratio	Source
min	max								
0	0.9	3.2 - 4 km from NW	2.1						(Anonymous, 1998) Line 103
0.8	2.2	39.9642 -117.8257	3.1						
2.2	3	39.9602 -117.8204	3.6						
0	0.125	0-0.5 km from NW	1.5						(Anonymous, 1998) Line 105
0.125	0.250	39.9445, -117.8644	1.8						
0.250	0.75	39.9405 -117.8618	2.5						
0	0.25	0.5 - 1 km from NW	1.8						(Anonymous, 1998) Line 105
0.25	0.5	39.9405 -117.8618	2.5						
0.5	0.75	39.9365 -117.8592	3.1						
0	0.17	1 - 1.5 km from NW 39.9365 -117.8592 39.9325 -117.8566	1.9						(Anonymous, 1998) Line 105
0.17	0.31		3.1						
0.31	0.4		3.4						
0.4	0.6		4.1						
0.6	0.7		4.8						
0.7	0.75		4.9						
0	0.125	1.5-2 km from NW 39.9325 -117.8566 39.9285 -117.8540	1.9						(Anonymous, 1998) Line 105
0.125	0.31		1.5						
0.31	0.4		2.7						
0.45	0.5		3.1						
0.5	0.55		3.4						
0.55	0.6		4.1						
0.6	0.65		4.4						
0.65	0.75		4.9						
0	0.25	2-2.5 km from NW 39.9285 -117.8540 39.9245 -117.8514	1.8						(Anonymous, 1998) Line 105
0.25	0.5		3.1						
0.5	0.6		3.2						
0.6	0.65		4.1						
0.65	0.75		4.4						
0	0.25	2.5-3 km from NW 39.9245 -117.8514 39.9205 -117.8488	1.8						(Anonymous, 1998) Line 105
0.25	0.6		2.5						
0.6	0.65		3.4						
0.65	0.75		4.1						
0	0.125	3-3.5 km from NW 39.9205 -117.8488 39.9175 -117.8468	1.5						(Anonymous, 1998) Line 105
0.125	0.75		2.4						
0	0.25	3.5 -4 km from NW 39.9175 -117.8468 39.9167, -117.8457	1.9						(Anonymous, 1998) Line 105
0.25	0.75		2.4						

Table 3. Seismic velocity models available in Dixie Valley. The depth column contains depth (km) with layer minimum and maximum depth range. The "Area" column contains latmin, latmax, lonmin, lonmax for every model, where available, or only (lat, lon) when the model is available in one location. Corner values are relative to the Project Area outline (see Figure 1 in main body of baseline report). Negative depth shows elevation. The seismic models on the reflection lines in Dixie Valley (Anonymous, 1998) are described relative to the line end (for example, the model at 2 km from NW means that the reference point is the northwest-most line point). Some sources are from seismic models described in the main body of this report, see Section 3.5.

Depth (km)		Area Corner Values (latitude,longitude)	Vp (km/s)	Vs (km/s)	Density (g/cm ³)	Qp	Qs	Poisson ratio	Source
min	max								
0	0.4	0-1.5 km from SW 39.953, -117.8798 39.9532 -117.8591	2.9						(Anonymous, 1998) Line 5
0.4	0.6		3.0						
0.6	0.8		3.6						
0.8	1		4.3						
1	3		4.7						
0	0.5	1.5 km from SW- 3 km from SW 39.9532 -117.8591 39.9533 -117.8454	2.1						(Anonymous, 1998) Line 5
0.5	0.7		3.1						
0.7	0.8		3.4						
0.8	0.9		4.2						
0.9	1.1		4.7						
1.1	3		5.1						
0	0.4	3-4 km from SW 39.9533 -117.8454 39.9534 -117.8316	1.9						(Anonymous, 1998) Line 5
0.4	0.8		2.1						
0.8	1		3.1						
1	1.16		3.4						
1.16	1.27		4.2						
1.27	3		4.7						
0	0.45	4-6 km from SW 39.9534 -117.8316 39.9535 -117.8109	1.8						(Anonymous, 1998) Line 5
0.45	0.9		1.9						
0.9	1		2.1						
1	1.1		3.1						
1.1	1.2		3.4						
1.2	1.3		4.2						
1.3	3		4.7						
0	0.25	6-7 km from SW 39.9535 -117.8109 39.9536 -117.7971	1.6						(Anonymous, 1998) Line 5
0.25	0.5		1.9						
0.5	0.8		2.4						
0.8	1		3.1						
1	1.3		3.4						
1.3	3		5.1						
0	0.25	7-8.5 km from SW 39.9536 -117.7971 39.9537 -117.7765	1.6						(Anonymous, 1998) Line 5
0.25	0.70		1.9						
0.7	1		2.5						
1	1.3		3.1						
1.3	1.4		3.4						
1.4	3		5.1						
0.25	0.5	8.5-9.2 km from SW 39.9537 -117.7765 39.9538 -117.7696	1.9						(Anonymous, 1998) Line 5
0.5	0.8		2.4						
0.8	1		3.1						
1	1.3		3.4						
1.3	3		5.1						

Table 3. Seismic velocity models available in Dixie Valley. The depth column contains depth (km) with layer minimum and maximum depth range. The "Area" column contains latmin, latmax, lonmin, lonmax for every model, where available, or only (lat, lon) when the model is available in one location. Corner values are relative to the Project Area outline (see Figure 1 in main body of baseline report). Negative depth shows elevation. The seismic models on the reflection lines in Dixie Valley (Anonymous, 1998) are described relative to the line end (for example, the model at 2 km from NW means that the reference point is the northwest-most line point). Some sources are from seismic models described in the main body of this report, see Section 3.5.

Depth (km)		Area Corner Values (latitude,longitude)	Vp (km/s)	Vs (km/s)	Density (g/cm ³)	Qp	Qs	Poisson ratio	Source
min	max								
0	0.1	9.2 -11 km from SW 39.9538 -117.7696 39.9539 -117.7489	1.6						(Anonymous, 1998) Line 5
0.1	0.4		1.9						
0.4	0.7		2.4						
0.7	0.9		3.1						
0.9	1.1		3.4						
1.1	1.2		4.3						
1.2	3		5.1						
0	0.3	11-11.5 km from SW 39.9539 -117.7489 39.9540 -117.7420	2.4						(Anonymous, 1998) Line 5
0.3	0.5		3.1						
0.5	1		3.4						
1	1.33		4.3						
1.33	3		4.8						
0	0.2	0-1.6 km from NW 39.9648 -117.8699 39.9548 -117.8552	2.1						(Anonymous, 1998) Line 9
0.2	0.4		3						
0.4	0.5		3.6						
0.5	0.6		4.2						
0.6	0.7		4.7						
0.7	3		5						
0	0.2	1.6-2.7 km from NW 39.9548 -117.8552 39.9488 -117.8464	1.6						(Anonymous, 1998) Line 9
0.2	0.4		2.2						
0.4	0.5		3.0						
0.5	2.6		3.6						
2.6	3		4.15						
0	0.2	2.7 -2.9 km from NW 39.9488 -117.8464 39.9468 -117.8435	1.8						(Anonymous, 1998) Line 9
0.2	0.4		2.2						
0.4	0.6		2.8						
0.6	2.7		3.1						
2.7	3		4.15						
0	0.5	2.9 - 3.5 km from NW 39.9468 -117.8435 39.9438 -117.8391	1.9						(Anonymous, 1998) Line 9
0.5	1		2.6						
1	2.7		3.1						
2.7	3		4.15						
0	0.5	3.5 - 6 km from NW 39.9438 -117.8391 39.9288 -117.8171	1.6						(Anonymous, 1998) Line 9
0.5	1		2.6						
1	2.7		3.1						
2.7	3		4.15						
0	0.5	0-0.7 km from NW 39.9583 -117.8776 39.9523 -117.8728	2.1						(Anonymous, 1998) Line 10
0.5	0.6		3.1						
0.6	0.7		3.4						
0.7	0.8		4.1						
0.8	3		5						

Table 3. Seismic velocity models available in Dixie Valley. The depth column contains depth (km) with layer minimum and maximum depth range. The "Area" column contains latmin, latmax, lonmin, lonmax for every model, where available, or only (lat, lon) when the model is available in one location. Corner values are relative to the Project Area outline (see Figure 1 in main body of baseline report). Negative depth shows elevation. The seismic models on the reflection lines in Dixie Valley (Anonymous, 1998) are described relative to the line end (for example, the model at 2 km from NW means that the reference point is the northwest-most line point). Some sources are from seismic models described in the main body of this report, see Section 3.5.

Depth (km)		Area Corner Values (latitude,longitude)	Vp (km/s)	Vs (km/s)	Density (g/cm ³)	Qp	Qs	Poisson ratio	Source
min	max								
0	0.15	0.7 - 1.2 km from NW 39.9523 -117.8728 39.9483 -117.8696	1.6						(Anonymous, 1998) Line 10
0.15	0.6		2						
0.6	0.7		3						
0.7	0.75		3.4						
0.75	0.8		4.1						
0.8	3		5						
0	0.1	1.2 - 2.8 km from NW 39.9483 -117.8696 39.9363 -117.8599	1.6						(Anonymous, 1998) Line 10
0.1	0.8		2						
0.8	1.1		3						
1.1	2.7		3.4						
2.7	3		4.1						
0	0.1	2.8 - 4 km from NW 39.9363 -117.8599 39.9273 -117.8526	1.6						(Anonymous, 1998) Line 10
0.1	0.6		2						
0.6	1.1		3.2						
1.1	2.7		3.4						
2.7	3		4.1						

¹ Represents a station location from Catchings (1992); see Figure 15 in the main body of this report.

Table 4. From the EarthScope Automated Receiver Survey (EARS)

<http://ears.iris.washington.edu/Data/Summary/>. The estimated thickness is from the general crustal model CRUST2.0. Red values are most likely subject to error, due to few events, or high waveform complexity (equivalent to large parameter errors) for the available events. Note that P08A (Dixie Valley) is one of these stations. See the link above for more information on table terms.

Network	Station	Latitude	Longitude	Elevation (m)	Estimated Thickness (km)	StdDev (km)	Estimated Vp/Vs (km/s)	StdDev (km/s)	Assumed Vp (km/s)	Vs (km/s)	Poisson's_Ratio	# Earthquakes	Complexity
US	BMN	40.43N	117.22 W	1500	29	6.3	1.80	0.02	6.276	3.487	0.28	4	0.55
TA	P08A	39.69N	118.08 W	1.0	29	11	2.10	0.16	6.279	2.99	0.35	3	0.73
TA	P09A	39.55N	117.14 W	1.7	30	1.5	1.84	0.04	6.276	3.411	0.29	63	0.50
TA	P07A	39.54N	118.89 W	1.2	28	7.4	2.10	0.03	6.279	2.99	0.35	19	0.67
TA	N07B	40.78N	118.97 W	1.3	27	1.6	1.88	0.04	6.276	3.338	0.30	69	0.55
TA	O07A	40.16N	118.88 W	1.2	32	0.2	1.67	0.02	6.276	3.758	0.22	75	0.45
TA	N08A	40.78N	118.13 W	1.5	31	0.2	1.84	0.02	6.276	3.411	0.29	68	0.30
TA	O06A	40.17N	119.83 W	1.2	33	0.6	1.81	0.02	6.276	3.467	0.28	66	0.57
TA	N09A	40.85N	117.52 W	1.6	33	0.3	1.74	0.02	6.276	3.607	0.25	74	0.43
TA	Q07A	38.94N	118.81 W	1.3	35	9.2	1.66	0.15	6.279	3.783	0.22	6	0.66
TA	Q09A	38.83N	117.18 W	1.7	36	6.3	1.91	0.10	6.276	3.286	0.31	48	0.70
TA	Q08A	38.86N	117.93 W	1.4	42	0.5	1.61	0.02	6.276	3.898	0.19	64	0.66
TA	N07A	40.77N	118.97 W	1.3	66	11	1.74	0.11	6.276	3.607	0.25	2	0.82
TA	O09A	40.17N	117.19 W	1.5	25	0.2	2.08	0.02	6.276	3.017	0.35	53	0.63
TA	O08A	40.29N	118.15 W	2.1	32	0.3	1.65	0.02	6.276	3.804	0.21	42	0.25

Table 5. Approximate Q values extracted from Phillips and Stead (2008). Lat+0.125°, Long+0.125°

Latitude (deg)	Longitude (deg)	Q _{LG} (@1 Hz)
38.75	-119.0000	125
	-118.8750	125
	-118.7500	125
	-118.6250	125
	-118.5000	137
	-118.3750	137
	-118.2500	137
	-118.1250	137
	-118.0000	137
	-117.8750	150
	-117.7500	162
	-117.6250	175
	-117.5000	162
	-117.3750	175
	-117.2500	175
	-117.1250	187
	-117.0000	250
38.875	-119.0000	125
	-118.8750	125
	-118.7500	125
	-118.6250	137
	-118.5000	137
	-118.3750	137
	-118.2500	137
	-118.1250	137
	-118.0000	137
	-117.8750	150
	-117.7500	162
	-117.6250	175
	-117.5000	175
	-117.3750	175
	-117.2500	175
	-117.1250	187
	-117.0000	250
39.0	-119.0000	125
	-118.8750	125
	-118.7500	125
	-118.6250	125
	-118.5000	137
	-118.3750	137
	-118.2500	137
	-118.1250	137
	-118.0000	137
	-117.8750	162
	-117.7500	175
	-117.6250	175
	-117.5000	175
	-117.3750	175
	-117.2500	175
	-117.1250	187
	-117.0000	250

Table 5. Approximate Q values extracted from Phillips and Stead (2008). Lat+0.125°, Long+0.125°

Latitude (deg)	Longitude (deg)	Q _{LG} (@1 Hz)
39.125	-119.0000	125
	-118.8750	125
	-118.7500	125
	-118.6250	125
	-118.5000	137
	-118.3750	150
	-118.2500	150
	-118.1250	162
	-118.0000	162
	-117.8750	175
	-117.7500	175
	-117.6250	175
	-117.5000	162
	-117.3750	162
	-117.2500	162
	-117.1250	175
	-117.0000	250
39.25	-119.0000	125
	-118.8750	125
	-118.7500	125
	-118.6250	125
	-118.5000	137
	-118.3750	137
	-118.2500	137
	-118.1250	150
	-118.0000	162
	-117.8750	175
	-117.7500	175
	-117.6250	175
	-117.5000	162
	-117.3750	150
	-117.2500	150
	-117.1250	162
	-117.0000	250
39.375	-119.0000	125
	-118.8750	125
	-118.7500	125
	-118.6250	125
	-118.5000	137
	-118.3750	137
	-118.2500	137
	-118.1250	150
	-118.0000	162
	-117.8750	175
	-117.7500	175
	-117.6250	175
	-117.5000	162
	-117.3750	150
	-117.2500	150
	-117.1250	162
	-117.0000	250

Table 5. Approximate Q values extracted from Phillips and Stead (2008). Lat+0.125°, Long+0.125°

Latitude (deg)	Longitude (deg)	Q _{LG} (@1 Hz)
39.5	-119.0000	125
	-118.8750	125
	-118.7500	125
	-118.6250	125
	-118.5000	138
	-118.3750	145
	-118.2500	145
	-118.1250	150
	-118.0000	162
	-117.8750	175
	-117.7500	175
	-117.6250	175
	-117.5000	162
	-117.3750	150
	-117.2500	150
	-117.1250	162
	-117.0000	250
39.625	-119.0000	125
	-118.8750	125
	-118.7500	125
	-118.6250	138
	-118.5000	138
	-118.3750	138
	-118.2500	150
	-118.1250	162
	-118.0000	175
	-117.8750	175
	-117.7500	175
	-117.6250	175
	-117.5000	162
	-117.3750	150
	-117.2500	150
	-117.1250	162
	-117.0000	250
39.750	-119.0000	125
	-118.8750	125
	-118.7500	125
	-118.6250	125
	-118.5000	125
	-118.3750	138
	-118.2500	150
	-118.1250	162
	-118.0000	175
	-117.8750	175
	-117.7500	175
	-117.6250	175
	-117.5000	162
	-117.3750	150
	-117.2500	162
	-117.1250	162
	-117.0000	187

Table 5. Approximate Q values extracted from Phillips and Stead (2008). Lat+0.125°, Long+0.125°

Latitude (deg)	Longitude (deg)	Q _{LG} (@1 Hz)
39.875	-119.0000	125
	-118.8750	125
	-118.7500	125
	-118.6250	125
	-118.5000	125
	-118.3750	125
	-118.2500	125
	-118.1250	150
	-118.0000	162
	-117.8750	175
	-117.7500	175
	-117.6250	162
	-117.5000	162
	-117.3750	150
	-117.2500	162
	-117.1250	175
	-117.0000	187
40.0	-119.0000	125
	-118.8750	138
	-118.7500	125
	-118.6250	125
	-118.5000	125
	-118.3750	125
	-118.2500	125
	-118.1250	138
	-118.0000	175
	-117.8750	175
	-117.7500	175
	-117.6250	162
	-117.5000	150
	-117.3750	150
	-117.2500	162
	-117.1250	175
	-117.0000	175
40.125	-119.0000	125
	-118.8750	125
	-118.7500	138
	-118.6250	138
	-118.5000	138
	-118.3750	125
	-118.2500	125
	-118.1250	125
	-118.0000	138
	-117.8750	150
	-117.7500	162
	-117.6250	162
	-117.5000	150
	-117.3750	150
	-117.2500	150
	-117.1250	162
	-117.0000	162
	-119.0000	175

Table 5. Approximate Q values extracted from Phillips and Stead (2008). Lat+0.125°, Long+0.125°

Latitude (deg)	Longitude (deg)	Q _{LG} (@1 Hz)
40.250	-119.0000	125
	-118.8750	125
	-118.7500	138
	-118.6250	138
	-118.5000	138
	-118.3750	138
	-118.2500	138
	-118.1250	138
	-118.0000	138
	-117.8750	150
	-117.7500	162
	-117.6250	150
	-117.5000	150
	-117.3750	150
	-117.2500	162
	-117.1250	162
	-117.0000	175