

Appendix A. Summary of Lithology Recorded on Cross-Section Well Logs
Hydrogeologic Investigation of the Salinas Valley Basin in the Vicinity of Fort Ord and Marina
Monterey County Water Resources Agency

Cross-Section A-A' Well Names	Top (feet bgs)	Bottom (feet bgs)	Boring log record	GEOBASE Code
PZ-12-04-180 *	0	137	yellowish brown sand, fine to medium grain	sand
PZ-12-04-180 *	137	147	olive gray sandy silt	fine sand
PZ-12-04-180 *	147	158	dark brown sand, fine to medium grain	sand
PZ-12-04-180 *	158	163	reddish brown silty sand, fine to medium grain	fine sand
PZ-12-04-180 *	163	293	reddish brown sand	red sand
PZ-12-04-180 *	293	297	dark brown silty sand	fine sand
PZ-12-04-180 *	297	300	dark brown sand	sand
14S/1E-25D	0	8	dirty sand	sand
14S/1E-25D	8	23	sand, poorly graded	sand
14S/1E-25D	23	70	sand, well graded	sand
14S/1E-25D	70	97	gray medium sand	sand
14S/1E-25D	97	101	gray fine sand	fine sand
14S/1E-25D	101	113	coars sand	coarse sand
14S/1E-25D	113	125	coarse sand and gravel	crs grvl/sd
14S/1E-25D	125	130	fine dirty sand	fine sand
14S/1E-25D	130	139	gray clay	clay
14S/1E-25D	139	148	sand (some gravel)	gravel/sand
14S/1E-25D	148	158	sand and gravel	gravel/sand
14S/1E-25D	158	159	gray clay	clay
14S/1E-25D	159	166	sand and gravel	gravel/sand
14S/1E-25D	166	167	clay	clay
14S/1E-25D	167	170	gravel	gravel
14S/1E-25D	170	171	clay	clay
14S/1E-25D	171	180	gravel and sand	gravel/sand
14S/1E-25D	180	188	silty sand	sand
14S/1E-25D	188	192	sandy mud	sandy clay
14S/1E-25D	192	197	dirty sand and gravel	gravel/sand
14S/1E-25D	197	204	gravel	gravel
14S/1E-25D	204	208	sand	sand
14S/1E-25D	208	210	gravel	gravel
14S/1E-25D	210	214	sand	sand
14S/1E-25D	214	220	gravel	gravel
14S/1E-25D	220	223	muddy sand and gravel	gravel/sand
14S/1E-25D	223	224	clay	clay
14S/1E-25D	224	232	sand, well graded	sand
14S/1E-25D	232	237	brown muddy sand	sand
14S/1E-25D	237	239	brown clay	brown clay
14S/1E-25D	239	246	dirty sand	sand
14S/1E-25D	246	254	sand and gravel	gravel/sand
14S/1E-25D	254	257	brown clay	brown clay
14S/1E-25D	257	262	gray clay	clay
14S/1E-25D	262	271	sandy clay	sandy clay
14S/1E-25D	271	300	fine brown sand	fine sand

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14S/1E-24L05	0	90	dune sand, coarse to very coarse with some finer sands	coarse sand
14S/1E-24L05	90	170	gravelly sand, C to VC sand and gravels	gravel/sand
14S/1E-24L05	170	190	clayey VF sand with silt	fine sand
14S/1E-24L05	190	230	gravelly sand, C to VC sand and gravels	crse grvl/sd
14S/1E-24L05	230	270	sandy clayey silt	sandy clay
14S/1E-24L05	270	330	gravelly sand, C to VC sand and gravels with some silt	crse grvl/sd
14S/1E-24L05	330	380	sandy clayey silt	sandy clay
14S/1E-24L05	380	440	sand, C to VC	coarse sand
14S/1E-24L05	440	540	sands, fine sand with silt and medium to VC sand	fine sand
14S/1E-24L05	540	570	clayey VF sand with silt	fine sand
14S/1E-24L05	570	630	partially cemented sands	sand
14S/1E-24L05	630	660	silt	clay
14S/1E-24L05	660	680	granulas of fine cemented sands	sand
14S/1E-24L05	680	700	gravelley VC sands	crse grvl/sd
14S/1E-24L05	700	900	silty clays and shales	clay
14S/1E-24L05	900	970	interbedded silts, clays, and fine sands	clay
14S/1E-24L05	970	1040	silty clays with shell fragments	clay
14S/1E-24L05	1040	1080	sandy silt	sandy clay
14S/1E-24L05	1080	1120	shale with some clays and shell fragments	clay
14S/1E-24L05	1120	1370	interbedded silts, clays, and fine sands	clay
14S/1E-24L05	1370	1700	shales/clays	clay
14S/1E-24L05	1700	1800	bedded sands, VC to fine sands, some partially cemented	coarse sand
14S/1E-24L05	1800	1820	gravelly, silty, clay	gravelly clay
14S/1E-24L05	1820	1880	gravels and shell fragments	gravel
14S/1E-24L05	1880	2000	shale fragments	shale
14S/1E-24L05	2000	2012	very fine sands	fine sand
14S/1E-13J02	0	8	fill	sediment
14S/1E-13J02	8	20	sand	sand
14S/1E-13J02	20	28	sandy yellow clay	yellow clay
14S/1E-13J02	28	48	fine red sand	red sand
14S/1E-13J02	48	71	colored sand	sand
14S/1E-13J02	71	93	red sand, colored sand, coarse	red sand
14S/1E-13J02	93	116	white and colored sand	white sand
14S/1E-13J02	116	138	white sand, streaks of yellow and blue sandy clay	white sand
14S/1E-13J02	138	161	white and colored coarse sand, blue sandy clay	coarse sand
14S/1E-13J02	161	206	yellow sandy clay, colored sand, coarse	sandy clay
14S/1E-13J02	206	228	red and brown crumbly sand, colored sand, coarse	red sand
14S/1E-13J02	228	251	red and brown crumbly sand, light blue clay, white sand	red sand
14S/1E-13J02	251	318	coarse white sand, thin streaks of white sandy clay	white sand
14S/1E-13J02	318	341	coarse colored sand, gravel, brown and gray sandy clay	coarse sand
14S/1E-13J02	341	363	hard gray and blue gray clay, sandy	blue clay
14S/1E-13J02	363	386	hard gray and blue clay, shale streaks	blue clay
14S/1E-13J02	386	408	gray shaley clay, streaks of sand	clay

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Well Names	(feet bgs)	(feet bgs)		Code
14S/1E-13J02	408	431	colored sand, gravel, hard shell	gravel/sand
14S/1E-13J02	431	476	colored sand, gravel, streaks of gray sandy clay	gravel/sand
14S/1E-13J02	476	521	blue and gray shaley clay, streaks of sand	blue clay
14S/1E-13J02	521	566	gray and yellow sandy clay, sand, blue shaley clay	yellow clay
14S/1E-13J02	566	588	yellow sandy clay colored sand	yellow clay
14S/1E-13J02	588	611	coarse colored sand, brown shaley clay	coarse sand
14S/2E-18E01	0	75	fine sand	fine sand
14S/2E-18E01	75	100	coarse gravel	gravel
14S/2E-18E01	100	125	gravel-streaks clay	gravel
14S/2E-18E01	125	150	clay rock	clay
14S/2E-18E01	150	175	coarse gravel	gravel
14S/2E-18E01	175	200	coarse gravel	gravel
14S/2E-18E01	200	225	fine sand streak clay	fine sand
14S/2E-18E01	225	250	fine sand streak clay	fine sand
14S/2E-18E01	250	275	gravel	gravel
14S/2E-18E01	275	300	fine sand streak clay	fine sand
14S/2E-18E01	300	325	white sand	white sand
14S/2E-18E01	325	350	sand clay streaks	sand
14S/2E-18E01	350	375	sand	sand
14S/2E-18E01	375	400	fine sand	fine sand
14S/2E-18E01	400	425	sand gravel	gravel/sand
14S/2E-18E01	425	450	sand gravel	gravel/sand
14S/2E-18E01	450	475	sand streaks clay	sand
14S/2E-18E01	475	500	coarse gravel-clay	gravelly clay
14S/2E-18E01	500	525	sand clay	sandy clay
14S/2E-18E01	525	550	sand clay	sandy clay
14S/2E-18E01	550	575	sandy clay	sandy clay
14S/2E-18E01	575	600	fine sand clay	sandy clay
14S/2E-18E01	600	625	sand	sand
14S/2E-18E01	625	650	red clay gravel	gravelly clay
14S/2E-18E01	650	675	yellow clay	yellow clay
14S/2E-18E01	675	700	yellow clay	yellow clay
14S/2E-18E01	700	725	fine gravel	gravel
14S/2E-18E01	725	750	coarse gravel	gravel
14S/2E-18E01	750	775	coarse gravel	gravel
14S/2E-18E01	775	800	fine gravel	gravel
14S/2E-18E01	800	825	coarse gravel	gravel
14S/2E-18E01	825	850	coarse gravel	gravel
14S/2E-18E01	850	875	yellow clay	yellow clay
14S/2E-18E01	875	890	yellow clay	yellow clay
14S/2E-18E01	890	913	yellow clay	yellow clay
14S/2E-07F02	0	2	surface soil	topsoil
14S/2E-07F02	2	8	yellow clay	yellow clay

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Well Names	(feet bgs)	(feet bgs)	Boring log record	Code
14S/2E-07F02	8	40	sandy blue clay	blue clay
14S/2E-07F02	40	60	sandy yellow clay and sand	yellow clay
14S/2E-07F02	60	82	yellow coarse sand	coarse sand
14S/2E-07F02	82	103	yellow coarse sand and streaks of yellow clay	coarse sand
14S/2E-07F02	103	124	yellow coarse sand and streaks of yellow clay	coarse sand
14S/2E-07F02	124	145	yellow coarse sand	coarse sand
14S/2E-07F02	145	166	coarse gravel and sand	gravel/sand
14S/2E-07F02	166	188	coarse gravel and sand	gravel/sand
14S/2E-07F02	188	209	coarse gravel and sand and streaks of yellow clay	gravel/sand
14S/2E-07F02	209	231	hard packed fine red sand	red sand
14S/2E-07F02	231	253	coarse gravel and and and streaks of yellow clay	gravel/sand
14S/2E-07F02	253	274	coarse gravel and and and streaks of yellow clay	gravel/sand
14S/2E-07F02	274	295	coarse gravel and sand and tough blue clay	gravel/sand
14S/2E-07F02	295	315	yellow clay and coarse gravel and sand	snd/grvl/clay
14S/2E-07F02	315	336	yellow clay and fine clay and coarse gravel and sand	snd/grvl/clay
14S/2E-07F02	336	357	coarse gravel and sand	gravel/sand
14S/2E-07F02	357	380	coarse gravel and sand and streaks of blue shale	gravel/sand
14S/2E-07F02	380	403	coarse gravel and sand and streaks of blue shale	gravel/sand
14S/2E-07F02	403	425	coarse gravel and sand	gravel/sand
14S/2E-07F02	425	446	coarse gravel and sand	gravel/sand
14S/2E-07F02	446	467	coarse gravel and sand	gravel/sand
14S/2E-07F02	467	488	coarse gravel and sand and streaks of blue clay	snd/grvl/clay
14S/2E-07F02	488	511	coarse gravel and sand and streaks of yellow clay	snd/grvl/clay
14S/2E-07F02	511	531	coarse gravel and sand and streaks of yellow clay	snd/grvl/clay
14S/2E-07F02	531	552	coarse gravel and sand and streaks of yellow clay	snd/grvl/clay
14S/2E-07F02	552	574	coarse gravel and sand and streaks of yellow clay	snd/grvl/clay
14S/2E-07F02	574	595	coarse gravel and sand and streaks of yellow clay	snd/grvl/clay
14S/2E-07F02	595	612	coarse gravel and sand and streaks of yellow clay	snd/grvl/clay
14S/2E-07L04	0	8	loose top soil and sand	topsoil
14S/2E-07L04	8	15	clay	clay
14S/2E-07L04	15	44	sand	sand
14S/2E-07L04	44	46	clay	clay
14S/2E-07L04	46	93	sand	sand
14S/2E-07L04	93	100	clay	clay
14S/2E-07L04	100	112	sandy clay	sandy clay
14S/2E-07L04	112	120	sand	sand
14S/2E-07L04	120	235	clay and sandy clay	clay
14S/2E-07L04	235	251	sand	sand
14S/2E-07L04	251	264	sand and clay	sandy clay
14S/2E-07L04	264	280	brown clay	brown clay
14S/2E-07L04	280	318	gravel	gravel
14S/2E-07L04	318	322	brown clay	brown clay
14S/2E-07L04	322	340	gravel	gravel

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14S/2E-07L04	340	343	brown clay	brown clay
14S/2E-07L04	343	356	sand and gravel	gravel/sand
14S/2E-07L04	356	358	brown clay	brown clay
14S/2E-07L04	358	378	gravel	gravel
14S/2E-07L04	378	400	sand and gravel	gravel/sand
14S/2E-07L04	400	402	brown clay	brown clay
14S/2E-07L04	402	409	gravel	gravel
14S/2E-07L04	409	414	sandy clay	sandy clay
14S/2E-07L04	414	422	gravel	gravel
14S/2E-07L04	422	423	brown clay	brown clay
14S/2E-07L04	423	432	sand	sand
14S/2E-07L04	432	434	brown clay	brown clay
14S/2E-07L04	434	446	gravel	gravel
14S/2E-07L04	446	448	brown clay	brown clay
14S/2E-07L04	448	520	clay and sandy clay	clay
14S/2E-07L04	520	558	gravel	gravel
14S/2E-07L04	558	564	brown clay	brown clay
14S/2E-07L04	564	568	sand	sand
14S/2E-07L04	568	570	brown clay	sand
14S/2E-07L04	570	624	sand and gravel	gravel/sand
14S/2E-07L04	624	645	brown clay	brown clay
14S/2E-07L05	0	25	clay	clay
14S/2E-07L05	25	38	sand	sand
14S/2E-07L05	38	70	sandy clay	sandy clay
14S/2E-07L05	70	85	clay	clay
14S/2E-07L05	85	105	sand	sand
14S/2E-07L05	105	210	clay w/some sand	sandy clay
14S/2E-07L05	210	235	gravel	gravel
14S/2E-07L05	235	245	clay	clay
14S/2E-07L05	245	270	gravel	gravel
14S/2E-07L05	270	320	clay-sandy	sandy clay
14S/2E-07L05	320	370	gravel	gravel
14S/2E-07L05	370	385	clay	clay
14S/2E-07L05	385	440	gravel	gravel
14S/2E-07L05	440	460	sand	sand
14S/2E-07L05	460	510	clay-sandy	sandy clay
14S/2E-07L05	510	545	gravel	gravel
14S/2E-07L05	545	548	clay	clay
14S/2E-07L05	548	585	gravel	gravel
14S/2E-07L05	585	598	clay-sandy	sandy clay
14S/2E-07L05	598	615	gravel	gravel
14S/2E-07L05	615	632	clay-sandy	sandy clay
14S/2E-06L01	0	6	top soil	topsoil

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Well Names	(feet bgs)	(feet bgs)	Boring log record	Code
14S/2E-06L01	6	15	blue sandy clay	blue clay
14S/2E-06L01	15	32	fine blue sand	blue sand
14S/2E-06L01	32	60	blue clay w/sea shell	blue clay
14S/2E-06L01	60	75	blue soft sand	blue sand
14S/2E-06L01	75	100	blue clay	blue clay
14S/2E-06L01	100	184	blue clay and sand streak	blue clay
14S/2E-06L01	184	278	coarse sand and gravel	gravel/sand
14S/2E-06L01	278	300	yellow clay	yellow clay
14S/2E-06L01	300	330	blue clay	blue clay
14S/2E-06L01	330	360	coarse yellow sand, streak of clay	coarse sand
14S/2E-06L01	360	434	yellow clay, streaks blue and brown shale	yellow clay
14S/2E-06L01	434	440	yellow clay, streaks blue and brown shale	yellow clay
14S/2E-06L01	440	490	white coarse sand	white sand
14S/2E-06L01	490	528	blue clay	blue clay
14S/2E-06L01	528	590	sand and gravel, streak clay	snd/grvl/clay
14S/2E-06L01	590	610	yellow clay	yellow clay
14S/2E-06L01	610	621	sand and gravel	gravel/sand
14S/2E-06L01	621	715	yellow clay w/streak of sand	sandy clay
14S/2E-06L01	715	747	yellow clay w/streak of gravel	sandy clay
14S/2E-06L01	747	778	yellow clay w/streak of gravel	sandy clay
14S/2E-06L01	778	795	yellow clay w/streak of gravel blue clay	sandy clay
14S/2E-06L01	795	840	yellow clay w/streak of gravel blue clay	sandy clay
14S/2E-06L01	840	872	blue clay	blue clay
14S/2E-06L01	872	903	blue clay	blue clay
14S/2E-06L01	903	934	brown clay	brown clay
14S/2E-06L01	934	965	hard brown clay and shale	brown clay
14S/2E-06L01	965	997	hard brown clay and shale	brown clay
14S/2E-06L01	997	1028	hard brown clay and shale	brown clay
14S/2E-06L01	1028	1059	blue clay	blue clay
14S/2E-06L01	1059	1090	blue and brown clay	blue clay
14S/2E-06L01	1090	1122	blue and brown shaley clay	blue clay
14S/2E-06L01	1122	1153	blue and brown shaley clay	blue clay
14S/2E-06L01	1153	1184	blue shaley clay with streak hard sandstone	blue clay
14S/2E-06L01	1184	1247	blue shale streak sand	blue clay
14S/2E-06L01	1247	1300	blue clay, streak sand	blue clay
14S/2E-06L01	1300	1340	blue clay, streak sand	blue clay
14S/2E-06L01	1340	1372	blue clay and shale	blue clay
14S/2E-06L01	1372	1403	blue clay, streak gravel and sand	snd/grvl/clay
14S/2E-06L01	1403	1435	streak gravel and sand	gravel/sand
14S/2E-06L01	1435	1466	streak gravel and sand	gravel/sand
14S/2E-06L01	1466	1498	streak gravel and sand	gravel/sand
14S/2E-06L01	1498	1529	streak gravel and sand	gravel/sand
14S/2E-06L01	1529	1561	streak gravel and sand	gravel/sand

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14S/2E-06L01	1561	1592	streak gravel and sand	gravel/sand
14S/2E-06L01	1592	1600	streak gravel and sand	gravel/sand
14S/2E-06L01	1600	1630	blue clay	blue clay
14S/2E-06L01	1630	1645	blue clay and sand	blue clay
14S/2E-06L01	1645	1660	brown clay and blue clay	blue clay
14S/2E-06L01	1660	1675	shale, blue clay	blue clay
14S/2E-06L01	1675	1690	shale, blue clay	blue clay
14S/2E-06L01	1690	1705	brown clay, blue clay	blue clay
14S/2E-06L01	1705	1720	brown clay, sand streak	sandy clay
14S/2E-06L01	1720	1735	blue clay	blue clay
14S/2E-06L01	1735	1750	blue clay	blue clay
14S/2E-06L01	1750	1809	blue shale	shale

Notes:

* a partial boring log description is provided for this well