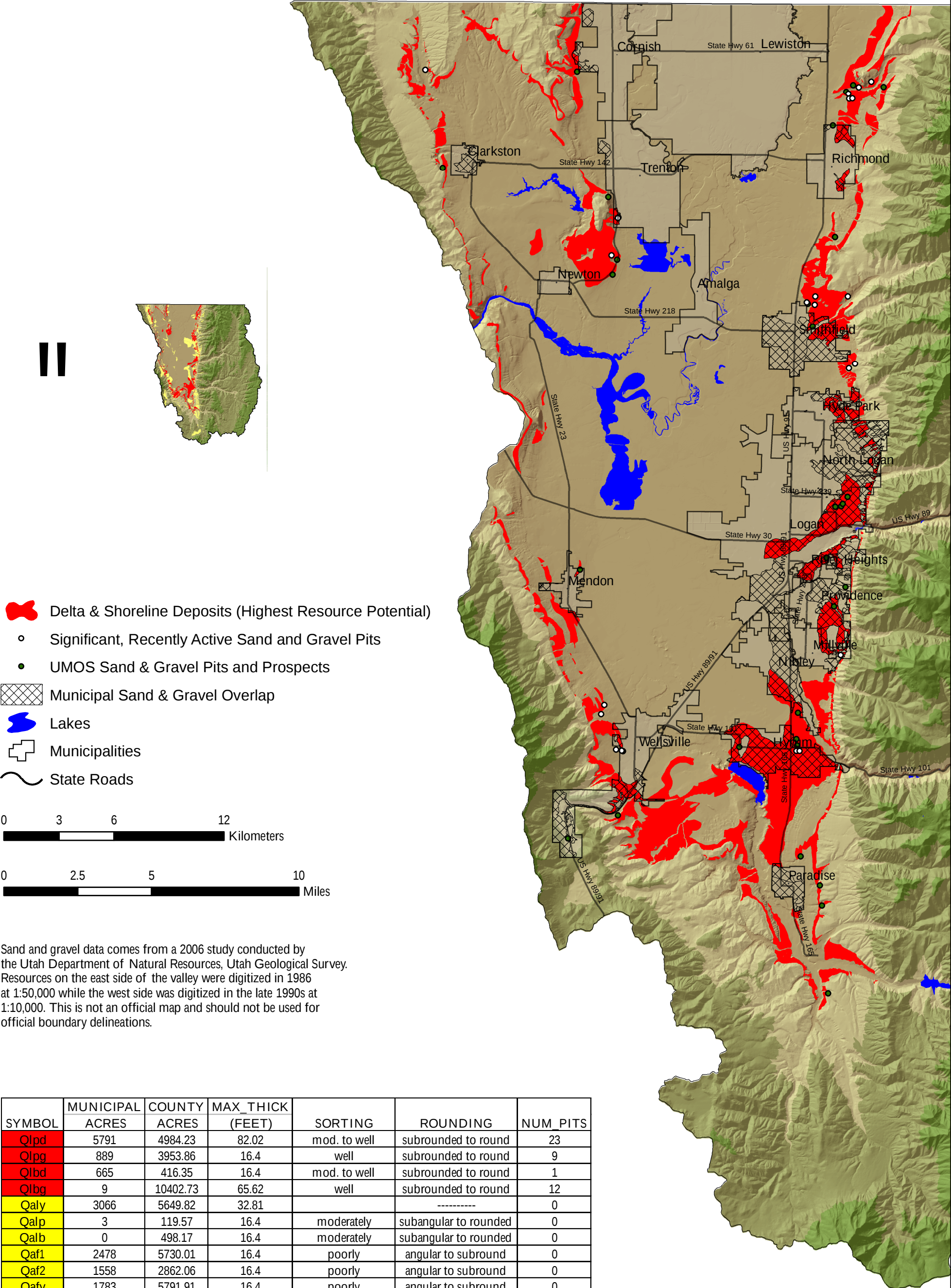


Sand & Gravel Resource Potential

Cache County, Utah



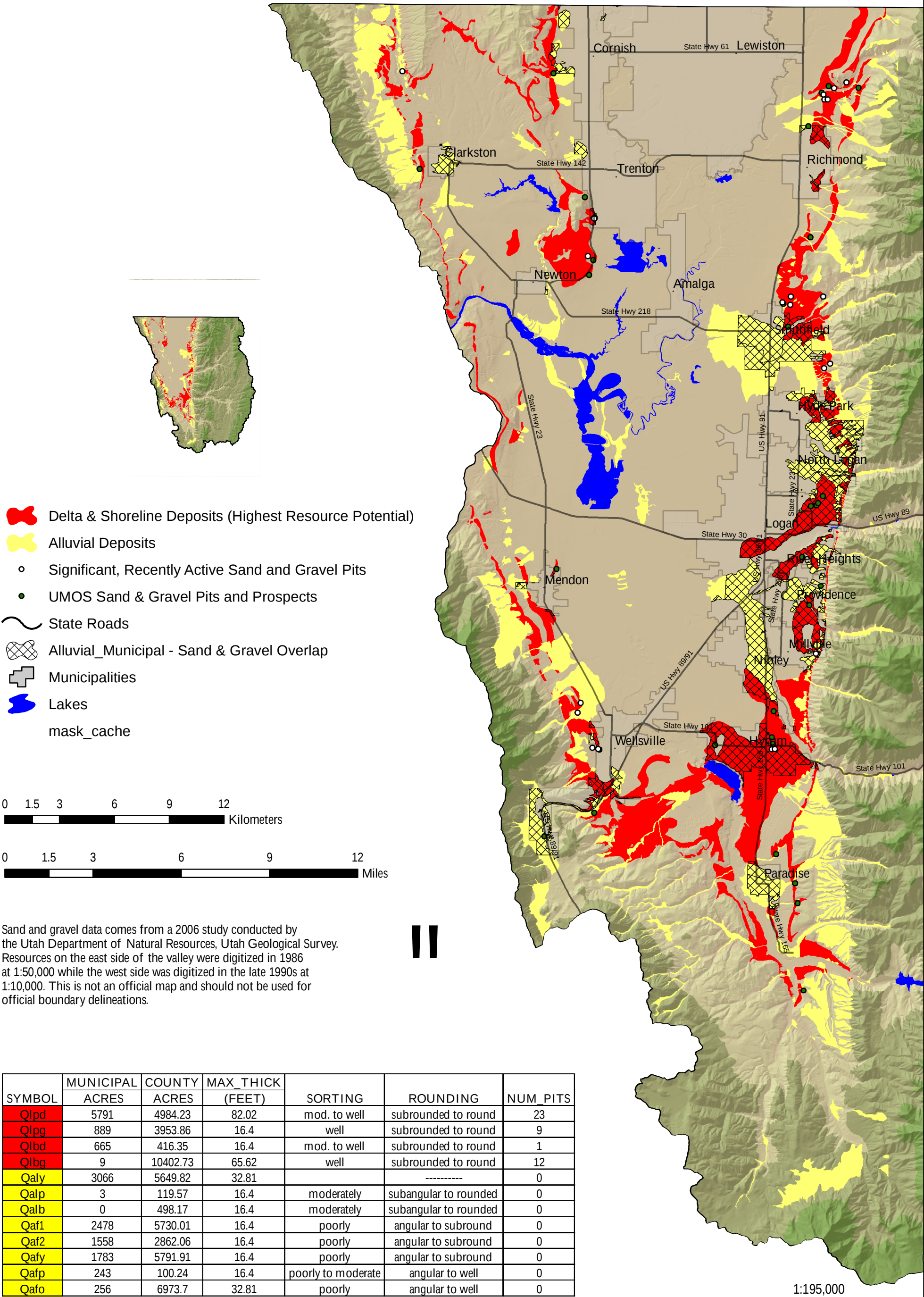
Sand and gravel data comes from a 2006 study conducted by the Utah Department of Natural Resources, Utah Geological Survey. Resources on the east side of the valley were digitized in 1986 at 1:50,000 while the west side was digitized in the late 1990s at 1:10,000. This is not an official map and should not be used for official boundary delineations.

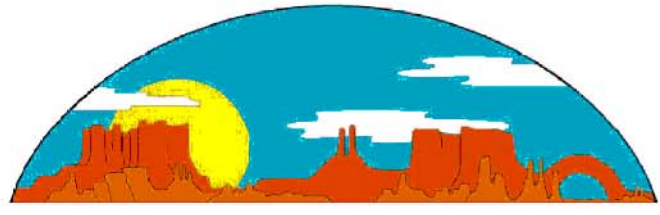
SYMBOL	MUNICIPAL ACRES	COUNTY ACRES	MAX_THICK (FEET)	SORTING	ROUNDING	NUM_PITS
Qlpd	5791	4984.23	82.02	mod. to well	subrounded to round	23
Qlpg	889	3953.86	16.4	well	subrounded to round	9
Qlbd	665	416.35	16.4	mod. to well	subrounded to round	1
Qlbg	9	10402.73	65.62	well	subrounded to round	12
Qaly	3066	5649.82	32.81		-----	0
Qalp	3	119.57	16.4	moderately	subangular to rounded	0
Qalb	0	498.17	16.4	moderately	subangular to rounded	0
Qaf1	2478	5730.01	16.4	poorly	angular to subround	0
Qaf2	1558	2862.06	16.4	poorly	angular to subround	0
Qafy	1783	5791.91	16.4	poorly	angular to subround	0
Qafp	243	100.24	16.4	poorly to moderate	angular to well	0
Qafo	256	6973.7	32.81	poorly	angular to well	0

1:195,000

Sand & Gravel Resource Potential

Cache County, Utah





CACHE COUNTY SAND AND GRAVEL PITS

Bryce Tripp, Sharon Wakefield,
and Taylor Boden
Utah Geological Survey
April 2006

LEGEND
 Cache Contour
 Cache County
 Township/Range
 Road
 River
 Recent Pit
 Qlps - Deltatic deposits, Provo level (regressive)
 Qlps - Lacustrine gravel and sand, Provo shoreline (regressive)
 Qlps - Deltatic deposits, Bonneville level (transgressive)
 Qlps - Lacustrine gravel and sand, Bonneville shoreline (transgressive)
 Qal1 - Stream alluvium, unit 1
 Qal2 - Stream alluvium, unit 2
 Qal3 - Younger stream alluvium
 Qal4 - Stream alluvium, Provo phase
 Qal5 - Stream alluvium, Bonneville phase

SIGNIFICANT, RECENTLY ACTIVE SAND AND GRAVEL PITS

Map_id	Mine name	Quadrangle	Utm_n	Utm_e	Twn	Rng	Sec	Qtr Sec
1	CLARKSTON (HENDERSON) PIT	CLARKSTON	4646408	410763	14N	02W	9	NW SE
2	COVE (CHRISTENSEN) PIT	RICHMOND	4645460	434346	14N	01E	13	NW NW
3	COVE (JBP) PIT	RICHMOND	4645111	435382	14N	01E	14	SE NE
4	COVE (TAYLOR) PIT	RICHMOND	4644839	433931	14N	01E	14	SE NE
5	COVE (WALKER) PIT	RICHMOND	4645772	435027	14N	01E	12	SW SE
6	COVE PIT	RICHMOND	4644852	433999	14N	01E	13	SW NW
7	HANSEN PIT							
8	HYRUM (JBP) PIT	LOGAN	4609315	430953	10N	01E	3	SW NW
9	NIBLEY (CELCO) PIT							
10	NIBLEY (SACKETT) PIT	LOGAN	4609327	431123	11N	01E	24	NW
11	SMITHFIELD (JBP) PIT	SMITHFIELD	4632743	431528	13N	01E	22	SE NW; 22: SW NE; 22
12	SMITHFIELD (MEKLE) PIT	SMITHFIELD	4633611	431961	13N	01E	22	SE NE
13	SMITHFIELD (SKYVIEW HEIGHTS) PIT	SMITHFIELD	4630163	433810	13N	01E	35	NE NE SE
14	SMITHFIELD (VICTORIA) PIT	SMITHFIELD	4630413	434146	13N	01E	36	
15	SMITHFIELD CYN (CRONQUIST) PIT	SMITHFIELD	4634070	433759	13N	01E	23	NE NE
16	SMITHFIELD PIT	SMITHFIELD	4634069	431986	13N	01E	22	NE NE
17	SPARKS PIT	TRENTON	4638339	421244	13N	01W	3	NW NW SW
18	TRENTON (JBP) PIT	RICHMOND	4633300	420900	13N	01E	9	SE SE
19	WELLSVILLE (ARCHIBALD) PIT	WELLSVILLE	4611834	420501	11N	01W	33	NW NW
20	WELLSVILLE (KERR) PIT	WELLSVILLE	4609396	421142	10N	01W	4	NE NE
21	WELLSVILLE (LEATHAM) PIT	WELLSVILLE	4611318	420336	11N	01W	33	SW NE
23	WELLSVILLE PIT	WELLSVILLE	4609334	421219	10N	01W	3	SW NW
22	WELLSVILLE PIT	WELLSVILLE	4609340	421455	10N	01W	3	NW NE SW

UMOS SAND AND GRAVEL PITS AND PROSPECTS

Map_id	Mine name	Quadrangle	Utm_n	Utm_e	Twn	Rng	Sec	Location
1	UT. DEPT. OF HIGHWAYS PIT NO. 03002	TRENTON	4646297	419022	014N	001W	8	SW 1/4 NE 1/4 SE 1/4
2	UT. DEPT. OF HIGHWAYS PIT NO. 03008	RICHMOND	4645575	434050	014N	001E	13	NW 1/4 NW 1/4 NW 1/4
3	HIGH CREEK PIT NO. 1	RICHMOND	4645075	435695	014N	002E	18	NW 1/4 NW 1/4 NW 1/4
4	PARSON'S READY MIX PIT	RICHMOND	4645207	433672	014N	001E	14	NW 1/4 NW 1/4 NW 1/4
5	CHERRY CREEK PIT	RICHMOND	4643400	432950	014N	001E	23	SE 1/4 NW 1/4
6	UT. DEPT. OF HIGHWAYS PIT NO. 03003	CLARKSTON	4641070	411710	014N	002W	27	SE 1/4 NW 1/4 SW 1/4
7	TRENTON GRAVEL PIT NO. 3	TRENTON	4639490	420725	014N	001W	33	NW 1/4 SE 1/4 SE 1/4
8	SELMAN RESERVOIR PIT	TONY GROVE CREEK	4638390	450170	013N	003E	3	UNSURVEYED SECTIONS
9	UT. DEPT. OF HIGHWAYS PIT NO. 03004	TRENTON	4638370	421270	013N	001W	3	NW 1/4 NW 1/4 SW 1/4
10	UT. DEPT. OF HIGHWAYS PIT NO. 03009	RICHMOND	4637325	433060	013N	001E	11	SE 1/4 NE 1/4 NW 1/4
11	UT. DEPT. OF HIGHWAYS PIT NO. 03005	NEWTON	4636075	421200	013N	001W	10	SW 1/4 SW 1/4 SW 1/4
12	UT. DEPT. OF HIGHWAYS PIT NO. 03006	NEWTON	4635275	420960	013N	001W	16	SW 1/4 SE 1/4 NE 1/4
13	UNNAMED GRAVEL PIT	TEMPLE PEAK	4634400	452720	013N	003E	14	UNSURVEYED SECTIONS
14	UT. DEPT. OF HIGHWAYS PIT NO. 03011	SMITHFIELD	4633675	431580	013N	001E	22	NE 1/4 SE 1/4 NW 1/4
15	UT. DEPT. OF HIGHWAYS PIT NO. 03012	SMITHFIELD	4632425	431837	013N	001E	27	SW 1/4 NW 1/4 NE 1/4
16	NORTH LOGAN PIT NO. 4	SMITHFIELD	4623150	433745	012N	001E	23	SW 1/4 SE 1/4 SE 1/4
17	NORTH LOGAN PIT NO. 3	SMITHFIELD	4622775	433475	012N	001E	26	SE 1/4 NW 1/4 NE 1/4
18	NORTH LOGAN PIT NO. 2	SMITHFIELD	4622650	433390	012N	001E	26	NE 1/4
19	NORTH LOGAN PIT NO. 1	SMITHFIELD	4622610	433075	012N	001E	26	NE 1/4 SE 1/4 NW 1/4
20	UT. DEPT. OF HIGHWAYS PIT NO. 03017	LOGAN	4619940	432600	012N	001E	35	SW 1/4 SW 1/4
21	MENDON PIT NO. 1	WELLSVILLE	4619390	419185	011N	001W	5	SW 1/4 SE 1/4 NE 1/4
22	CHUGG PIT	LOGAN	4618250	433625	011N	001E	2	SW 1/4 SE 1/4 SE 1/4
23	UT. DEPT. OF HIGHWAYS PIT NO. 03018	LOGAN	4617190	433000	011N	001E	11	NW 1/4 NE 1/4 SW 1/4
24	UT. DEPT. OF HIGHWAYS PIT NO. 03024	LOGAN	4611400	431050	011N	001E	34	NW 1/4
25	CACHE CONCRETE CO. PIT	LOGAN	4609980	430950	011N	001E	34	SE 1/4 NW 1/4 NW 1/4
26	UT. DEPT. OF HIGHWAYS PIT NO. 03023	LOGAN	4609621	431000	010N	001E	3	SW 1/4 NW 1/4
27	UT. DEPT. OF HIGHWAYS PIT NO. 03025	LOGAN	4609340	427850	010N	001E	5	NE 1/4 SW 1/4 NW 1/4
28	UT. DEPT. OF HIGHWAYS PIT NO. 17029	WELLSVILLE	4609300	421525	010N	001W	3	NW 1/4 NE 1/4 SW 1/4
29	GARRETT'S HOLLOW PIT	MOUNT PISGAH	4605825	421250	010N	001W	15	NE 1/4 NW 1/4 SW 1/4
30	UT. DEPT. OF HIGHWAYS PIT NO. 03031	MOUNT PISGAH	4604560	418525	010N	001W	20	SW 1/4 SW 1/4 NE 1/4
31	NORTH PARADISE PIT	PARADISE	4603590	431190	010N	001E	22	SW 1/4 SE 1/4 SW 1/4
32	UT. DEPT. OF HIGHWAYS PIT NO. 03026	PARADISE	4603000	432230	010N	001E	27	SE 1/2 SE 1/4 SE 1/4
33	UNNAMED PIT	LOGAN	4600900	432350	010N	001E	2	SW 1/4 NW 1/4 SW 1/4
34	MCKENZIE FLAT PIT	PARADISE	4596120	432680	009N	001E	14	SW 1/4 NE 1/4 SW 1/4

Scale 1:100000

Symbol	Unit	Area (km2)	Max thick	Sorting	Rounding	Cement	Num_pits
Qlps	Deltatic deposits, Provo level (regressive)	75.198	25	mod. to well	subrounded to round	weakly cemented	23
Qlps	Lacustrine gravel and sand, Provo shoreline (regressive)	19.598	5	well	subrounded to round	some beach conglomerate	9
Qlps	Deltatic deposits, Bonneville level (transgressive)	0.042	5	mod. to well	subrounded to round	weak cement common	1
Qlps	Lacustrine gravel and sand, Bonneville shoreline (transgressive)	42.134	20	well	subrounded to round	some beach conglomerate	12
Qal1	Stream alluvium, unit 1	85.643	5	moderately	subangular to rounded	None	0
Qal2	Stream alluvium, unit 2	40.738	5	moderately	subangular to rounded	None	0
Qal3	Younger stream alluvium	35.271	10	moderately	subangular to rounded	None	0
Qal4	Stream alluvium, Provo phase	0.496	5	moderately	subangular to rounded	None	0
Qal5	Stream alluvium, Bonneville phase	2.016	5	moderately	subangular to rounded	None	0

