

## ***APPENDIX 7.9 SOILS ASSOCIATION CHARACTERISTICS***

**Exhibit 7.9-1**  
**Soils Association Characteristics**

	Percent of County	Percent of Assoc.	Acreage	Capability Class	Shrink Swell <sup>a</sup>	Erosion Hazard <sup>b</sup>	Runoff Potential <sup>c</sup>	Hydro Group <sup>d</sup>	Septic Limit <sup>e</sup>	Major Use
<b>Group A</b>	10		101,056	-						
1. Clear Lake-Reyes Association	6		60,634	-	H	S	S	D	S	
Clear Lake Soils		50	30,317	II	H	S	S	D	S	Oats for Hay
Reyes Soils		40	24,253	IV	H	S	S	D	S	
Other Minor Soils		10	6,063	-						
2. Hair-Diablo Association	4		40,422	-	H	H	R	B	S	Pasture, Range, and Hay
Hair Soils		45	18,190	III-VI	H,M,L	H,M,S	R,M	B	S	
Diablo Soils		45	18,190	II-VI	H	H	R	B	S	
Other Minor Soils		10	4,042	-						
<b>Group B</b>	6		60,634	-						Pasture and Hay
3. Huichica-Wright-Zamora Asn	6		60,634	-	H	M,S	M,S		S	Pasture and Hay
Huichica Soils		35	21,222	III-IV	H,M	M,S	M,S	D	S	Prunes, Grapes
Wright Soils		30	18,190	III-IV	H,M,L	M,S	M,S	C	S	Row Crops
Zamora Soils		25	15,158	I-II	H,M	M,S	M,S	B	S	
Other Minor Soils		10	6,063	-						
<b>Group C</b>	4		40,422	-						Pasture, Hay, Row Crops, Grapes, and many Dairies
4. Pajaro Association	1									
Pajaro Soils		90	9,095	II-III	L	S	S	C	S	
Other Minor Soils										
5. Yolo-Cortina Pleasanton Asn	3		20,217	-	M		M	B	S	
Yolo Soils		60	18,190	I-II	M,L	M,S	M,S	B	S	All Crops
Cortina Soils		15	4,548	IV	L	S	S	A	L	
Pleasanton Soils		15	4,548	I-IV	M,L	S	M,S	B	S	
Other Minor Soils		10	3,032	-						
<b>Group D</b>	12		121,267	-						
6. Spreckles-Felta Association	4		40,422	-	H	H	R		S	Range, Pasture
Spreckles Soils		50	20,211	III-VI	H,M	H	R,M	C	S	
Felta Soils		40	16,199	IV-VII	L	H,M,S	VR,R,M,S	B	S	
Other Minor Soils		10	4,042	-						
7. Yorkville-Suther Association	8		80,845	-	H				S	
Yorkville Soils		40	32,338	VI	H,M	VH,H,M,S	VR,R,M,S	D	S	
Suther Soils		40	32,338	VI-VII	H,M	VH,H,M	VR,R	C	S	Range, Pasture

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<b>Group D (cont.)</b>										
Other Minor Soils		20	16,169	-						
<b>Group E</b>	50		505,225	-						
8. Goulding-Toomes-Guenoc	8		80,845	-	M	HMS	RMS		S	
Goulding Soils		70	56,591	III-VII	M,L	H,M,S	R,M,S	D	S	Range, Pasture
Toomes Soils		10	8,084	VII	M	H,M,S	VR,R,M,S	D	S	
Quenoc Soils		10	8,084	VI-VII	M	H,M,S	R,M,S	C	S	
Other Minor Soils		10	8,084	-						
9. Kidd-Forward-Cohasset Asn.	2		20,211	-	L				S	
Kidd Soils		30	6,063	VI-VII	L	H,M	VR,R,M	D	S	Range, Timber,
Forward Soils		30	6,063	VI-VII	L	H,M,S	VR,R,M	C	S	Watershed,
Cohasset Soils		20	4,042	IV-VII	M,L	H,M,S	VR,R,M	B	S	Recreation
Other Minor Soils		20	4,042	-						
10. Los Gatos-Henneke-Maymen	7		70,739	-						
Los Gatos Soils		50	35,370	VII	M,L	VH,H,M	VR,R	C	S	Watershed, Wildlife
Henneke Soils		20	14,148	VII	L	VH,H,M,S	R	D	S	Habitat, Recreation
Maymen Soils		20	14,148	VII	L	VH,H	VR,R	D	S	
Other Minor Soils		10	7,074	-						
11. Hugo-Josephine-Laughlin	33		333,485	-	M				S	
Hugo Soils		55	183,417	VI-VII	M	VH,H	VR,R	B	S	Commercial Timber
Josephine Soils		20	66,697	IV-VII	M,L	VH,H,M	VR,R,M	B	S	Commercial Timber
Laughlin Soils		15	50,023	IV-VII	M	VH,H,M,S	VR,R,M,S	C	S	Range, Pasture
<b>Group F</b>	18		181,9001	-	M	H	R		S	
12. Steinbeck-Los Osos Asn.	6		60,634	-	M	H	R		S	Range, Pasture
Steinbeck Soils		65	39,412	III-VI	M	H	R,M	B	S	
Los Osos Soils		25	15,158	III-VII	H,M	H,M,S	R,M,S	C	S	
Other Minor Soils		10	6,063	-						
13. Goldridge-Cotati-Sebastopol	6		60,634	-	M	H,S			S	
Godridge Soils		60	36,380	III-VI	M,L	H	R,M,S	B	S	Apples, Timber
Cotati Soils		20	12,125	III-VI	H,M,L	H	R	C	S	Range, Pasture
Sebastopol Soils		10	6,063	III-VI	M,L	H,M,S	M,S	B	S	
Other Minor Soils		10	6,063	-						
14. Kneeland-Rohnerville-Kinman	3		30,317	-	M				S	
Kneeland Soils		30	9,095	III-VII	M	VH,H,M,S	VR,R,M,S	C	S	
Rohnerville Soils		25	7,579	III-IV	M	M,S	M,S	B	S	Timber
Kinman Soils		25	7,579	IV-VI	H,M	H,M,S	R,M,S	C	S	
Other Minor Soils		20	6,063	-						

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15. Empire-Casper-Mendocino	3		30,317	-	L				S	
Empire Soils		35	10,611	VI	L	H,M	R,M	B	S	
Casper Soils		30	9,095	VI	L	H,M	R,M	B	S	
Mendocino Soils		20	6,063	VI	M,L	H,M,S	R,M,S	B	S	
Other Minor Soils		15	4,546	-						

<sup>a</sup> H = High  
M = Moderate  
L = Low

<sup>b</sup> VH = Very High  
H = High  
M = Moderate  
S = Slight

<sup>c</sup> VR = Very Rapid  
R = Rapid  
M = Moderate  
S = Slight

<sup>d</sup> A = Absorbs water rapidly; low runoff potential  
B = Absorbs water moderately; moderate runoff potential  
C = Absorbs water slowly; moderate runoff potential  
D = Absorbs water very slowly; high runoff potential

<sup>e</sup> S = Severe  
M = Moderate  
L = Low

Source: *Sonoma County General Plan EIR*, Table 3-2.3, 1986.