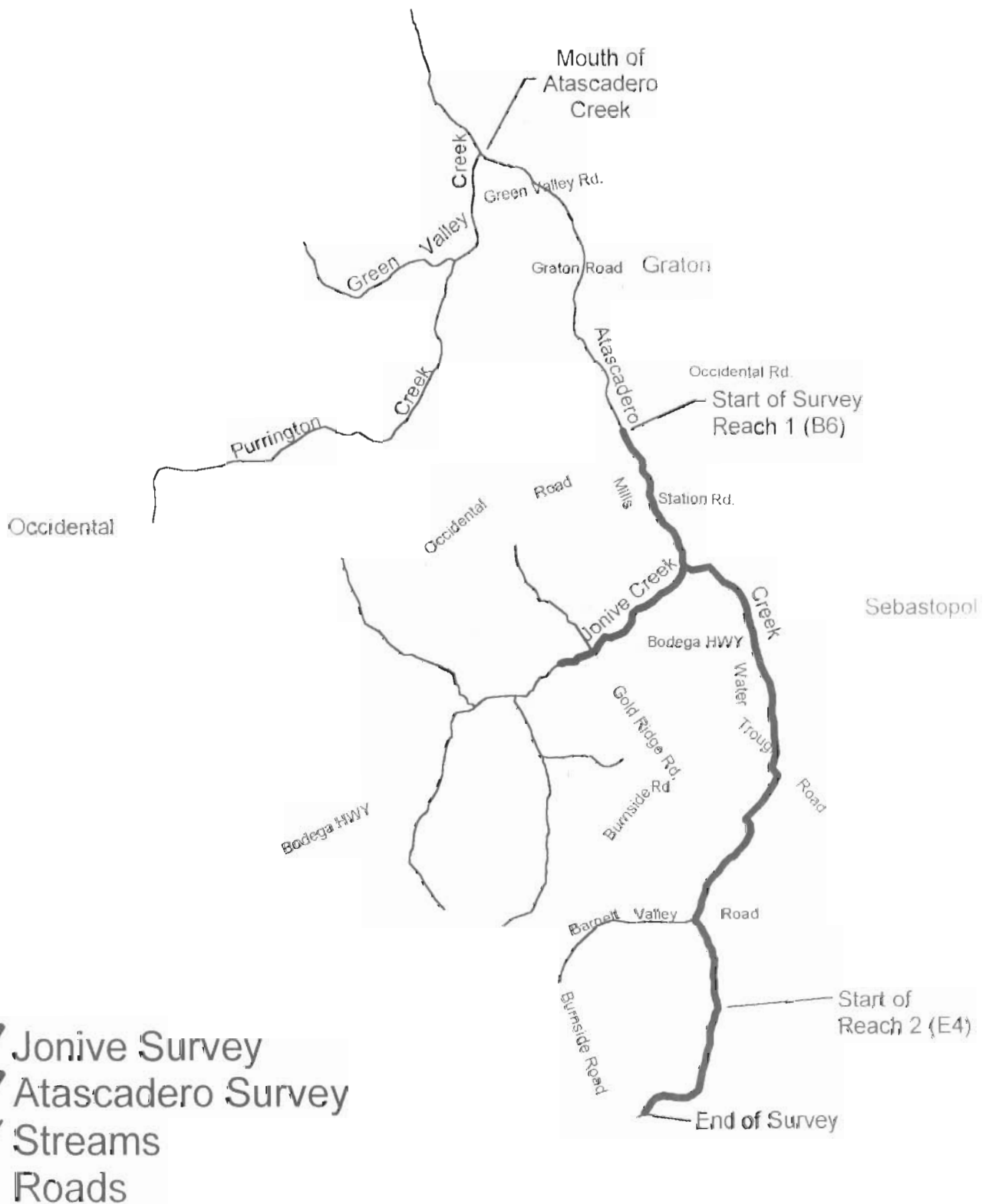


# Atascadero Creek Watershed



APPENDIX A. Summary of Mean Percent Vegetative Cover for Entire Stream

| Mean Percent Canopy | Mean Percent Conifer | Mean Percent Deciduous | Mean Right bank % Cover | Mean Left Bank % Cover |
|---------------------|----------------------|------------------------|-------------------------|------------------------|
| 72.33               | 90.38                | 9.62                   | 56.29                   | 53.71                  |

APPENDIX B.

Mean Percentage of Dominant Substrate

| Dominant Class of Substrate | Number Units Right Bank | Number Units Left Bank | Total Mean Percent |
|-----------------------------|-------------------------|------------------------|--------------------|
| Bedrock                     | 2                       | 3                      | 8.06               |
| Boulder                     | 0                       | 0                      | 0                  |
| Cobble/Gravel               | 0                       | 1                      | 1.61               |
| Silt/clay                   | 29                      | 27                     | 90.32              |

Mean Percentage of Dominant Vegetation

| Dominant Class of Vegetation | Number Units Right Bank | Number Units Left Bank | Total Mean Percent |
|------------------------------|-------------------------|------------------------|--------------------|
| Grass                        | 0                       | 0                      | 0                  |
| Brush                        | 6                       | 5                      | 17.74              |
| Decid. Trees                 | 4                       | 4                      | 12.90              |
| Conif. Trees                 | 19                      | 20                     | 62.90              |
| No Vegetation                | 2                       | 2                      | 6.45               |

APPENDIX C. FISH HABITAT INVENTORY DATA SUMMARY

STREAM NAME: Atascadero Creek  
 SAMPLE DATES: 07/14/95 to 07/21/95  
 STREAM LENGTH: 14516 ft.  
 LOCATION OF STREAM MOUTH:

USGS Quad Map: CMP MK/SEB  
 Legal Description: T07NR09WS18

Latitude: 38°26'55"  
 Longitude: 122°53'9"

SUMMARY OF FISH HABITAT ELEMENTS BY STREAM REACH

STREAM REACH 1

|  |                                  |
|--|----------------------------------|
| Channel Type: B6                           | Canopy Density: 74%              |
| Channel Length: 13253 ft.                  | Coniferous Component: 85%        |
| Riffle/Flatwater Mean Width: 10 ft.        | Deciduous Component: 15%         |
| Total Pool Mean Depth: 1.4 ft.             | Pools by Stream Length: 9%       |
| Base Flow: 0.0 cfs                         | Pools >=3 ft.deep: 33%           |
| Water: 61 - 65 °F Air: 59 - 85 °F          | Mean Pool Shelter Rtn: 43        |
| Dom. Bank Veg.: Coniferous Trees           | Dom. Shelter: Small Woody Debris |
| Vegetative Cover: 59%                      | Occurrence of LOD: 55%           |
| Dom. Bank Substrate: Silt/Clay/Sand        | Dry Channel: 0 ft.               |
| Embeddness Value: 1. 0% 2. 0% 3. 6% 4. 94% |                                  |

STREAM REACH 2

|  |                              |
|--|------------------------------|
| Channel Type: B4                             | Canopy Density: 69%          |
| Channel Length: 1263 ft.                     | Coniferous Component: 100%   |
| Riffle/Flatwater Mean Width: 4 ft.           | Deciduous Component: 0%      |
| Total Pool Mean Depth: 0.7 ft.               | Pools by Stream Length: 28%  |
| Base Flow: 0.0 cfs                           | Pools >=3 ft.deep: 0%        |
| Water: 60 - 62 °F Air: 61 - 65 °F            | Mean Pool Shelter Rtn: 46    |
| Dom. Bank Veg.: Coniferous Trees             | Dom. Shelter: Undercut Banks |
| Vegetative Cover: 48%                        | Occurrence of LOD: 50%       |
| Dom. Bank Substrate: Silt/Clay/Sand          | Dry Channel: 0 ft.           |
| Embeddness Value: 1. 0% 2. 13% 3. 63% 4. 25% |                              |

Atascadero Creek

Drainage: Green Valley Creek

Table 1 - SUMMARY OF RIFFLE, FLATWATER, AND POOL HABITAT TYPES Survey Dates: 07/14/95 to 07/21/95

Confluence Location: QUAD: CMP MK/SEB LEGAL DESCRIPTION: T07NR09WS18 LATITUDE: 38°26'55" LONGITUDE: 122°53'9"

| HABITAT UNITS | HABITAT FULLY MEASURED | HABITAT TYPE | HABITAT PERCENT OCCURRENCE | MEAN LENGTH (ft.) | TOTAL LENGTH (ft.) | MEAN WIDTH (ft.) | TOTAL WIDTH (ft.) | MEAN DEPTH (ft.) | TOTAL DEPTH (ft.) | MEAN AREA (sq.ft.)   | TOTAL AREA (sq.ft.) | MEAN ESTIMATED VOLUME (cu.ft.) | TOTAL ESTIMATED VOLUME (cu.ft.) | MEAN RESIDUAL POOL VOL (cu.ft.) | TOTAL RESIDUAL POOL VOL (cu.ft.) | MEAN SHELTER RATING |
|---------------|------------------------|--------------|----------------------------|-------------------|--------------------|------------------|-------------------|------------------|-------------------|----------------------|---------------------|--------------------------------|---------------------------------|---------------------------------|----------------------------------|---------------------|
| 23            | 0                      | RIFFLE       | 19                         | 43                | 986                | 7                | 5.7               | 0.4              | 120               | 2759                 | 52                  | 1201                           | 0                               | 0                               | 0                                |                     |
| 45            | 0                      | FLATWATER    | 36                         | 266               | 11953              | 82               | 8.5               | 1.1              | 8242              | 370882               | 1479                | 66558                          | 0                               | 0                               | 0                                |                     |
| 56            | 14                     | POOL         | 45                         | 28                | 1577               | 11               | 10.7              | 1.2              | 227               | 12705                | 227                 | 12688                          | 135                             | 44                              | 44                               |                     |
| TOTAL UNITS   | 14                     |              |                            |                   | TOTAL LENGTH (ft.) |                  |                   |                  |                   | TOTAL AREA (sq. ft.) |                     | TOTAL VOL. (cu. ft.)           |                                 |                                 |                                  |                     |
| 24            |                        |              |                            |                   | 14516              |                  |                   |                  |                   | 386347               |                     | 80447                          |                                 |                                 |                                  |                     |

Table 2 - SUMMARY OF HABITAT TYPES AND MEASURED PARAMETERS

Survey Dates: 07/14/95 to 07/21/95

Confluence Location: QUAD: CMP MK/SEB LEGAL DESCRIPTION: T07NR09WS18 LATITUDE: 38°26'55" LONGITUDE: 122°53'9"

| HABITAT UNITS | HABITAT FULLY MEASURED | HABITAT TYPE | HABITAT OCCURRENCE | MEAN LENGTH | MEAN WIDTH | MEAN DEPTH | MEAN MAXIMUM DEPTH | MEAN AREA | TOTAL AREA EST. | MEAN VOLUME | TOTAL VOLUME EST. | MEAN RESIDUAL VOLUME | MEAN SHELTER CANOPY | MEAN CANOPY |
|---------------|------------------------|--------------|--------------------|-------------|------------|------------|--------------------|-----------|-----------------|-------------|-------------------|----------------------|---------------------|-------------|
| #             |                        |              | %                  | ft.         | ft.        | ft.        | ft.                | sq.ft.    | sq.ft.          | cu.ft.      | cu.ft.            | cu.ft.               | %                   | %           |
| 23            | 0                      | LGR          | 19                 | 43          | 6          | 0.4        | 0.8                | 120       | 2759            | 52          | 1201              | 0                    | 0                   | 77          |
| 29            | 0                      | GLD          | 23                 | 385         | 10         | 1.4        | 6.5                | 13057     | 378646          | 2482        | 71989             | 0                    | 0                   | 74          |
| 15            | 0                      | RUN          | 12                 | 51          | 7          | 0.5        | 1.0                | 217       | 3254            | 136         | 2041              | 0                    | 0                   | 65          |
| 1             | 0                      | SRN          | 1                  | 31          | 7          | 0.7        | 1.0                | 217       | 217             | 152         | 152               | 0                    | 0                   | 80          |
| 2             | 0                      | TRP          | 2                  | 21          | 4          | 0.7        | 1.2                | 128       | 256             | 90          | 179               | 64                   | 190                 | 80          |
| 27            | 6                      | MCP          | 22                 | 33          | 5          | 1.3        | 26.0               | 114       | 3087            | 168         | 4534              | 121                  | 40                  | 63          |
| 1             | 1                      | STP          | 1                  | 54          | 9          | 1.0        | 1.6                | 486       | 486             | 486         | 486               | 292                  | 60                  | 100         |
| 2             | 0                      | CRP          | 2                  | 28          | 14         | 2.0        | 2.9                | 342       | 683             | 683         | 1366              | 342                  | 20                  | 80          |
| 2             | 1                      | LSL          | 2                  | 16          | 11         | 1.3        | 2.8                | 187       | 374             | 243         | 486               | 94                   | 13                  | 100         |
| 10            | 4                      | LSR          | 8                  | 22          | 18         | 0.8        | 2.2                | 312       | 3116            | 161         | 1608              | 85                   | 54                  | 79          |
| 2             | 0                      | LSBK         | 2                  | 32          | 0          | 0.0        | 1.2                | 0         | 0               | 0           | 0                 | 0                    | 5                   | 0           |
| 6             | 1                      | PLP          | 5                  | 28          | 11         | 1.8        | 32.0               | 198       | 1188            | 297         | 1782              | 238                  | 25                  | 70          |
| 4             | 1                      | DPL          | 3                  | 17          | 15         | 1.0        | 4.3                | 300       | 1200            | 300         | 1200              | 0                    | 75                  | 70          |

| TOTAL HABITAT UNITS | TOTAL LENGTH (ft.) | TOTAL AREA (sq.ft) | TOTAL VOL. (cu.ft) |
|---------------------|--------------------|--------------------|--------------------|
| 124                 | 14516              | 395266             | 87024              |

Atascadero Creek

Drainage: Green Valley Creek

Table 3 - SUMMARY OF POOL TYPES

Survey Dates: 07/14/95 to 07/21/95

Confluence Location: QUAD: CMP MK/SEB LEGAL DESCRIPTION: T07NR09NS18 LATITUDE: 38°26'55" LONGITUDE: 122°53'9"

| HABITAT UNITS | HABITAT FULLY MEASURED | HABITAT TYPE | HABITAT PERCENT OCCURRENCE | MEAN LENGTH (ft.)  | TOTAL LENGTH (ft.) | MEAN WIDTH (ft.) | MEAN DEPTH (ft.) | MEAN AREA (sq.ft.)  | TOTAL AREA EST. (sq.ft.) | MEAN VOLUME (cu.ft.) | TOTAL VOLUME EST. (cu.ft.) | MEAN RESIDUAL POOL VOL. (cu.ft.) | MEAN SHELTER RATING |
|---------------|------------------------|--------------|----------------------------|--------------------|--------------------|------------------|------------------|---------------------|--------------------------|----------------------|----------------------------|----------------------------------|---------------------|
| 30            | 7                      | MAIN         | 54                         | 33                 | 975                | 62               | 1.2              | 157                 | 4714                     | 195                  | 5837                       | 134                              | 48                  |
| 22            | 6                      | SCOUR        | 39                         | 24                 | 535                | 34               | 1.2              | 288                 | 6347                     | 253                  | 5575                       | 137                              | 33                  |
| 4             | 1                      | BACKWATER    | 7                          | 17                 | 67                 | 4                | 1.0              | 300                 | 1200                     | 300                  | 1200                       | 0                                | 75                  |
| TOTAL UNITS   | 14                     |              |                            | TOTAL LENGTH (ft.) | 1577               |                  |                  | TOTAL AREA (sq.ft.) | 12261                    |                      | TOTAL VOL. (cu.ft.)        | 12612                            |                     |

Atascadero Creek

Drainage: Green Valley Creek

Table 4 - SUMMARY OF MAXIMUM POOL DEPTHS BY POOL HABITAT TYPES Survey Dates: 07/14/95 to 07/21/95

Confluence Location: QUAD: CMP MK/SEB LEGAL DESCRIPTION: T07NR09WS18 LATITUDE: 38°26'55" LONGITUDE: 122°53'9"

| UNITS MEASURED | HABITAT TYPE | <1 FOOT            |               | 1-<2 FT.           |               | 2-<3 FT.           |               | 3-<4 FT.           |               | >=4 FEET           |               |    |
|----------------|--------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|----|
|                |              | PERCENT OCCURRENCE | MAXIMUM DEPTH | PERCENT OCCURRENCE | MAXIMUM DEPTH | PERCENT OCCURRENCE | MAXIMUM DEPTH | PERCENT OCCURRENCE | MAXIMUM DEPTH | PERCENT OCCURRENCE | MAXIMUM DEPTH |    |
| 2              | TRP          | 4                  | 1             | 50                 | 1             | 0                  | 0             | 0                  | 0             | 0                  | 0             |    |
| 27             | MCP          | 48                 | 7             | 26                 | 7             | 5                  | 5             | 19                 | 4             | 15                 | 4             |    |
| 1              | STP          | 2                  | 0             | 0                  | 1             | 0                  | 0             | 0                  | 0             | 0                  | 0             |    |
| 2              | CRP          | 4                  | 0             | 0                  | 1             | 1                  | 1             | 50                 | 0             | 0                  | 0             |    |
| 2              | LSL          | 4                  | 0             | 0                  | 1             | 1                  | 1             | 50                 | 0             | 0                  | 0             |    |
| 10             | LSR          | 18                 | 1             | 10                 | 5             | 4                  | 4             | 40                 | 0             | 0                  | 0             |    |
| 2              | LSBL         | 4                  | 1             | 50                 | 1             | 0                  | 0             | 0                  | 0             | 0                  | 0             |    |
| 6              | PLP          | 11                 | 1             | 17                 | 1             | 1                  | 1             | 17                 | 1             | 17                 | 2             |    |
| 4              | DPL          | 7                  | 0             | 0                  | 0             | 2                  | 2             | 50                 | 1             | 25                 | 1             |    |
| TOTAL UNITS    |              |                    |               |                    |               |                    |               |                    |               |                    |               | 33 |
|                |              |                    |               |                    |               |                    |               |                    |               |                    |               | 25 |

Atascadero Creek

Drainage: Green Valley Creek

Table 6 - SUMMARY OF DOMINANT SUBSTRATES BY HABITAT TYPE

Survey Dates: 07/14/95 to 07/21/95

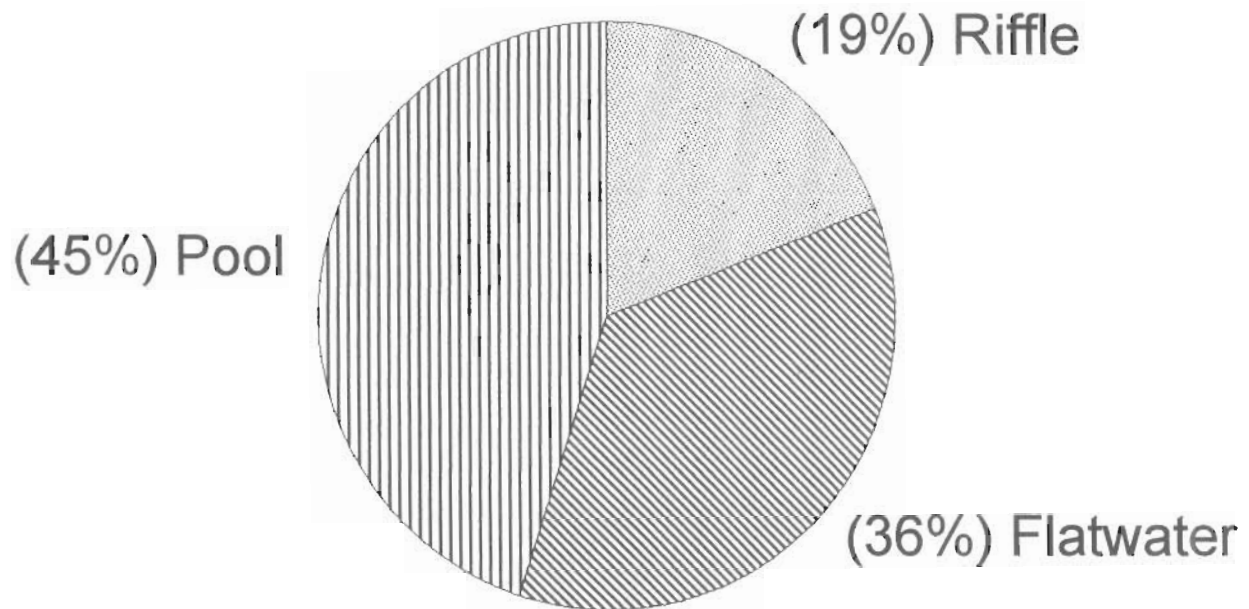
Confluence Location: QUAD: CMP MK/SEB LEGAL DESCRIPTION: T07NR09WS18 LATITUDE: 38°26'55" LONGITUDE: 122°53'9"

| TOTAL HABITAT UNITS MEASURED | UNITS FULLY | HABITAT TYPE | % TOTAL            |               | % TOTAL         |                    | % TOTAL            |                  | % TOTAL          |   | % TOTAL |   |
|------------------------------|-------------|--------------|--------------------|---------------|-----------------|--------------------|--------------------|------------------|------------------|---|---------|---|
|                              |             |              | SILT/CLAY DOMINANT | SAND DOMINANT | GRAVEL DOMINANT | SM COBBLE DOMINANT | LG COBBLE DOMINANT | BOULDER DOMINANT | BEDROCK DOMINANT |   |         |   |
| 0                            | 0           | LGR          | 33                 | 0             | 33              | 0                  | 0                  | 33               | 0                | 0 | 0       | 0 |
| 2                            | 0           | GLD          | 33                 | 0             | 50              | 0                  | 0                  | 0                | 0                | 0 | 0       | 0 |
| 1                            | 0           | RUN          | 33                 | 0             | 33              | 0                  | 0                  | 0                | 0                | 0 | 33      | 0 |
| 0                            | 0           | SRN          | 0                  | 100           | 0               | 0                  | 0                  | 0                | 0                | 0 | 0       | 0 |
| 0                            | 0           | TRP          | 0                  | 0             | 100             | 0                  | 0                  | 0                | 0                | 0 | 0       | 0 |
| 6                            | 6           | MCP          | 25                 | 13            | 50              | 0                  | 0                  | 0                | 0                | 0 | 13      | 0 |
| 1                            | 1           | STP          | 0                  | 0             | 100             | 0                  | 0                  | 0                | 0                | 0 | 0       | 0 |
| 0                            | 0           | CRP          | 0                  | 100           | 0               | 0                  | 0                  | 0                | 0                | 0 | 0       | 0 |
| 1                            | 1           | LSL          | 0                  | 100           | 0               | 0                  | 0                  | 0                | 0                | 0 | 0       | 0 |
| 4                            | 4           | LSR          | 20                 | 60            | 20              | 0                  | 0                  | 0                | 0                | 0 | 0       | 0 |
| 0                            | 0           | LSBK         | 0                  | 0             | 0               | 0                  | 0                  | 0                | 0                | 0 | 0       | 0 |
| 1                            | 1           | PLP          | 0                  | 100           | 0               | 0                  | 0                  | 0                | 0                | 0 | 0       | 0 |
| 1                            | 1           | DPL          | 100                | 0             | 0               | 0                  | 0                  | 0                | 0                | 0 | 0       | 0 |



# Atascadero Creek

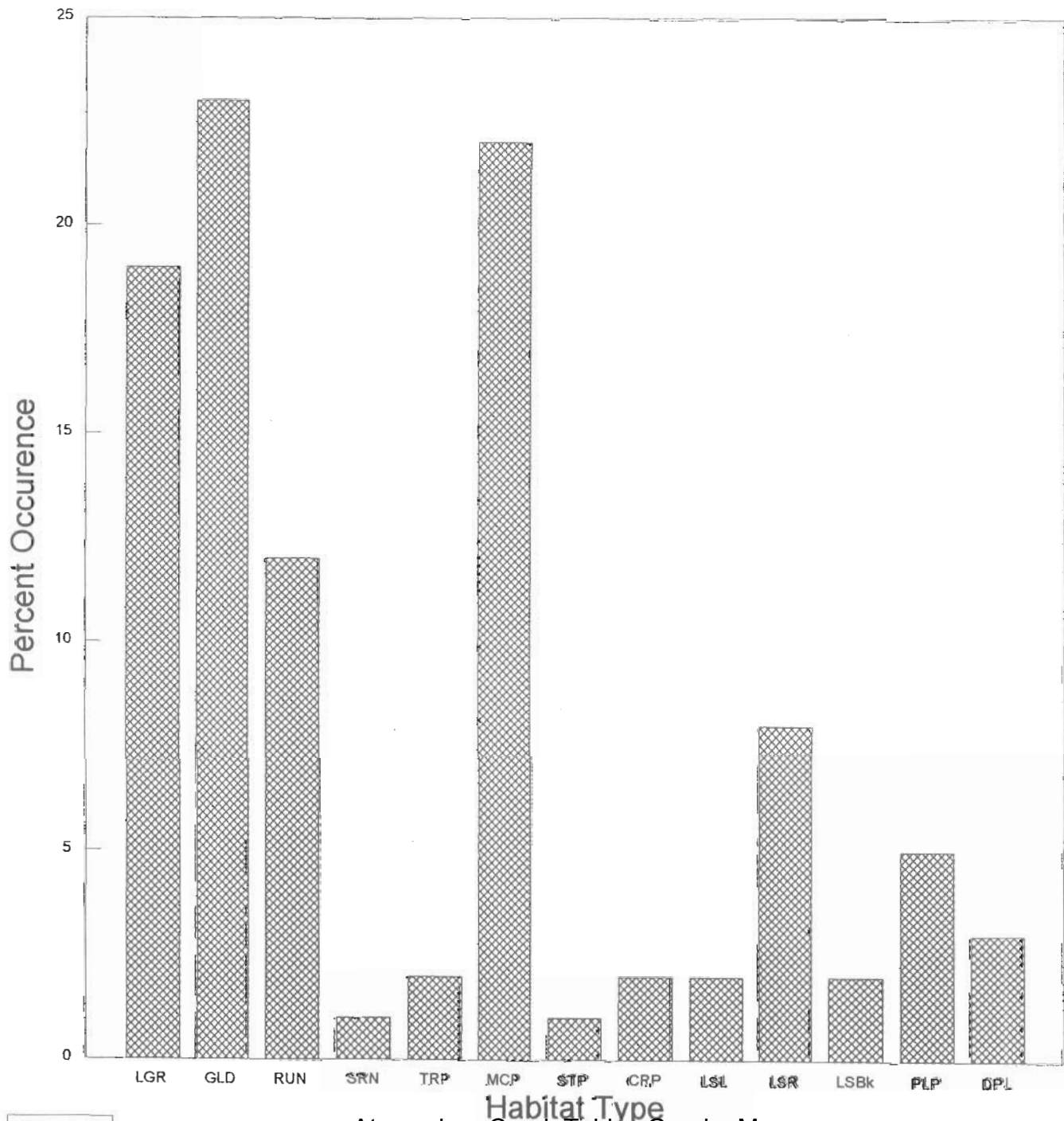
Level II Habitat Types by % Occurrence



Graph 1

# Atascadero Creek

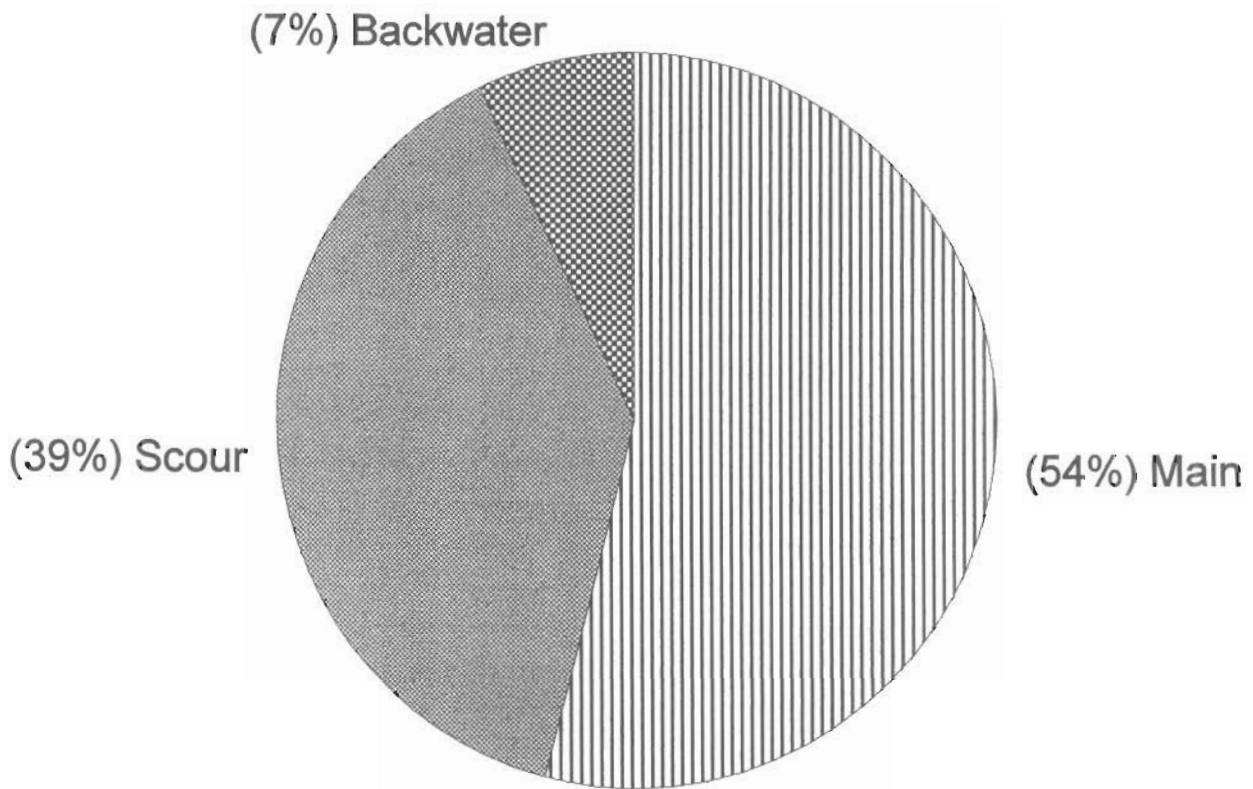
## Level IV Habitat Types by Percent Occurrence



Graph 2

# Atascadero Creek

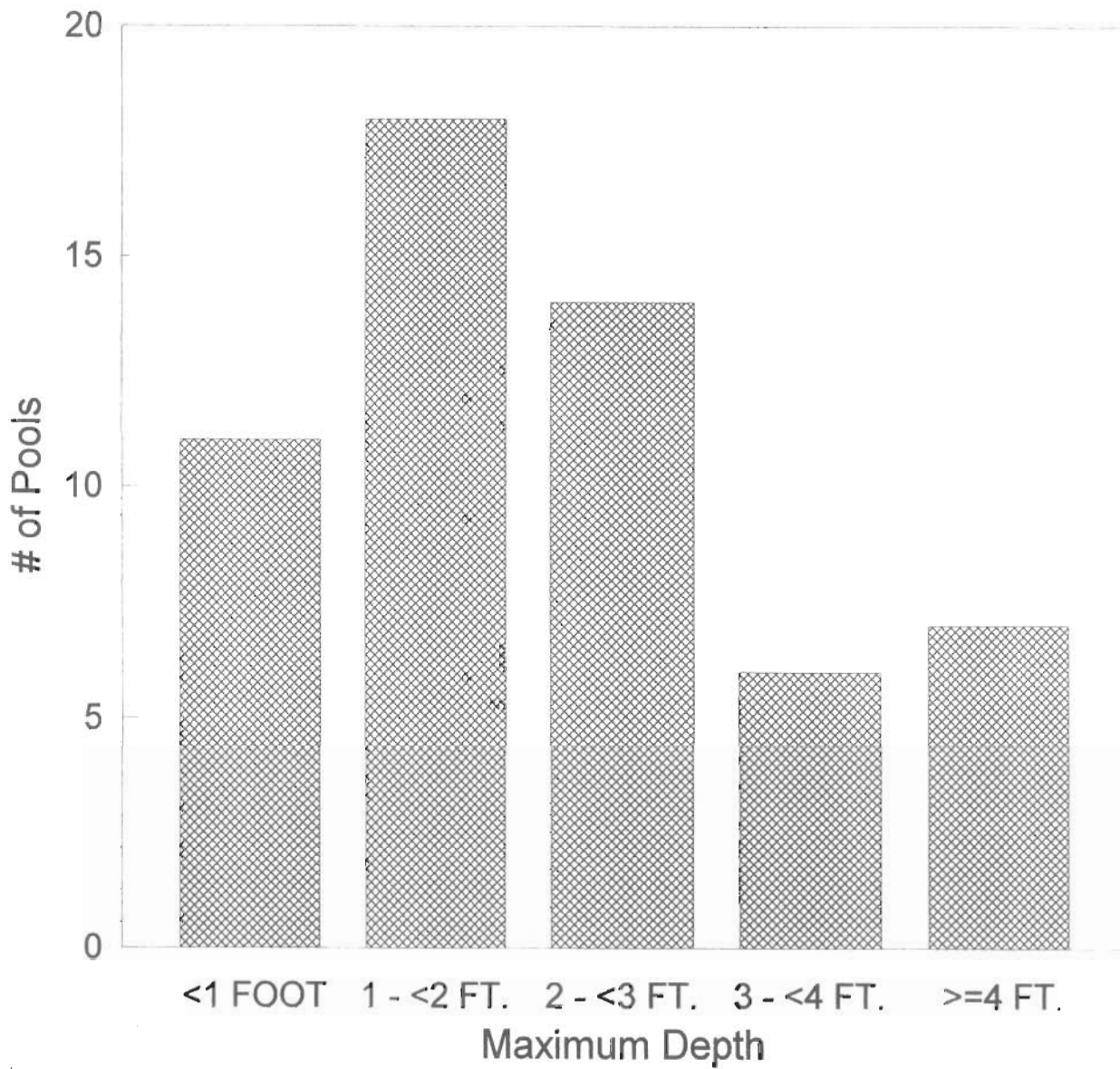
## Pool Habitat Types by % Occurrence



Graph 3

# Atascadero Creek

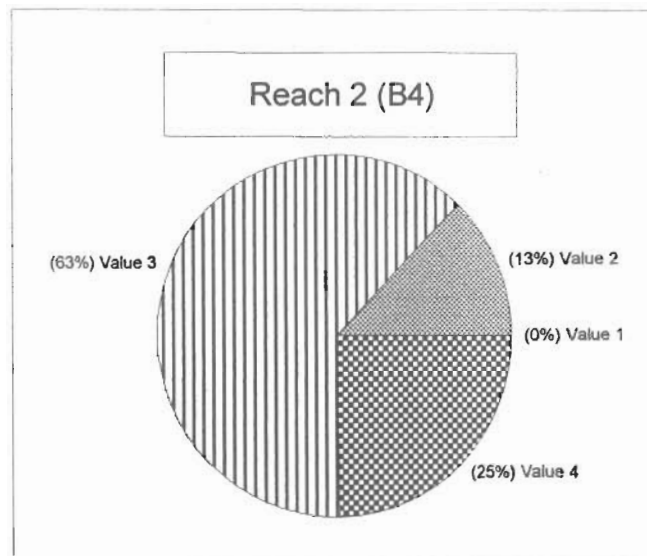
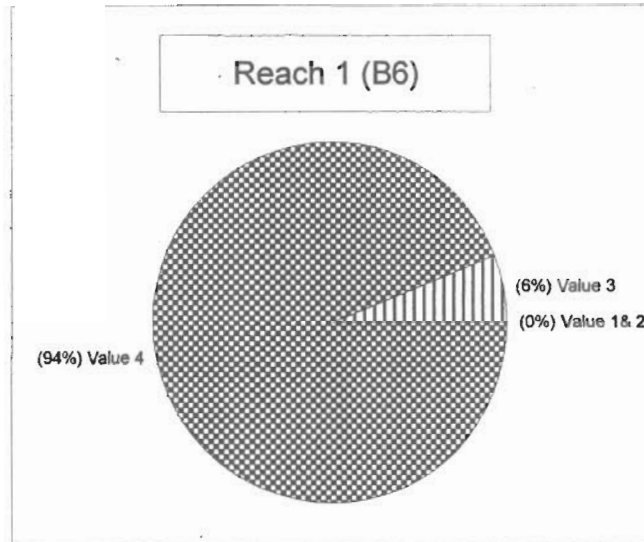
## Maximum Depth in Pools



Graph 4

# Atascadero Creek

## Percent Embeddedness by Reach

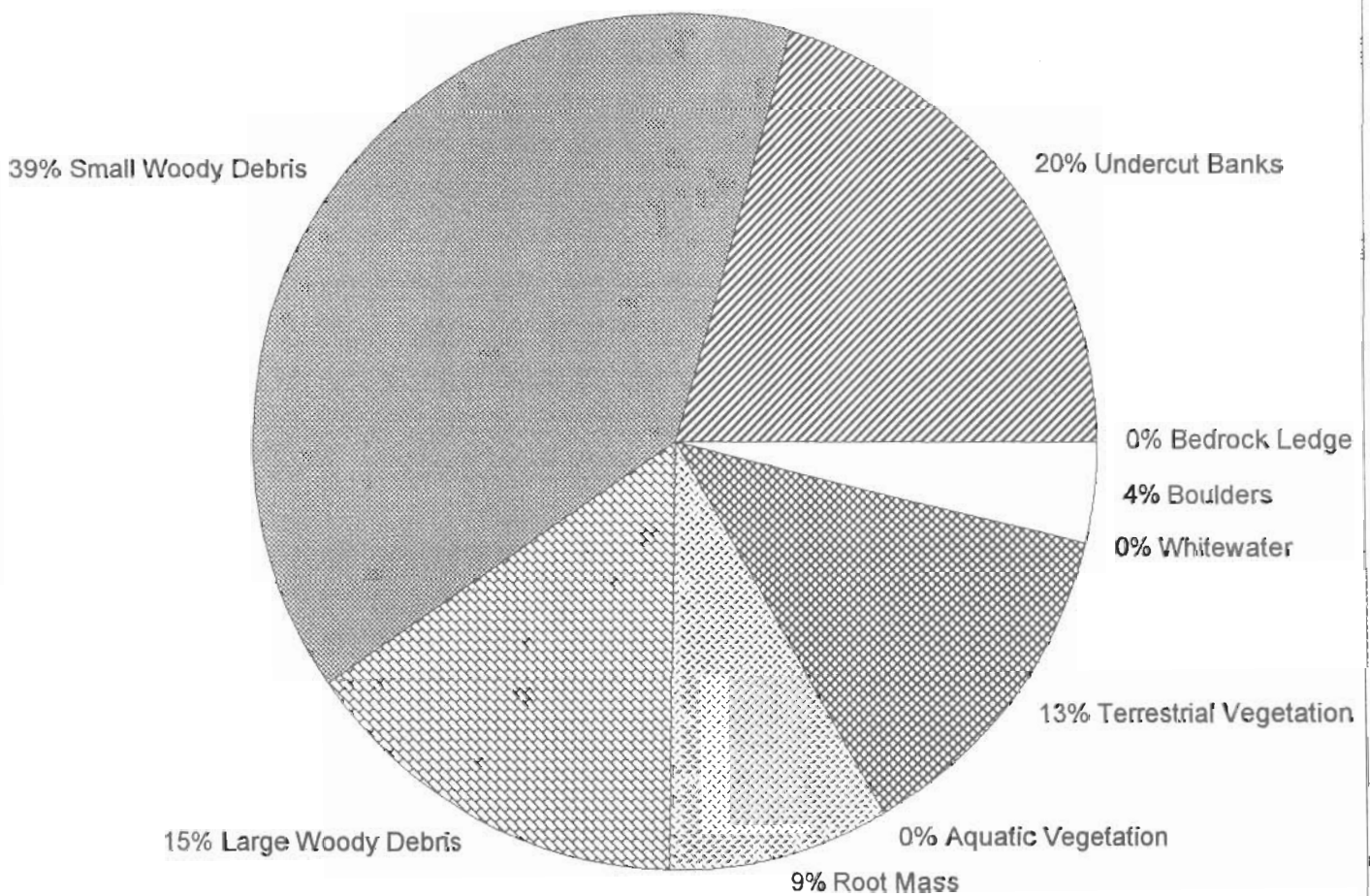


Value 1 = <25% Value 2 = 25-50% Value 3 = 51-75% Value 4 = >76%

Graph 5

# Atascadero Creek

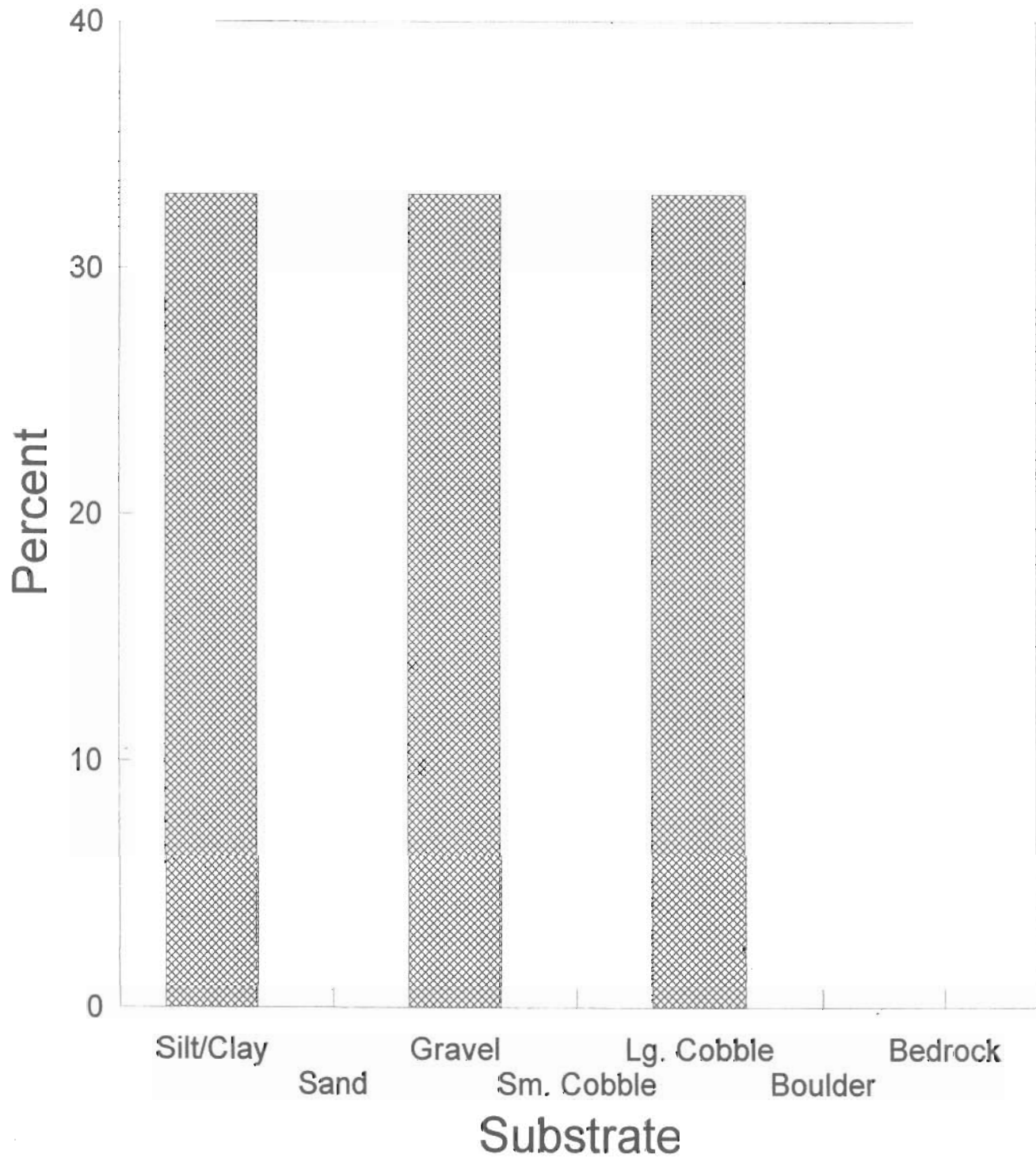
## Percent Cover Types in Pools



Graph 6

# Atascadero Creek

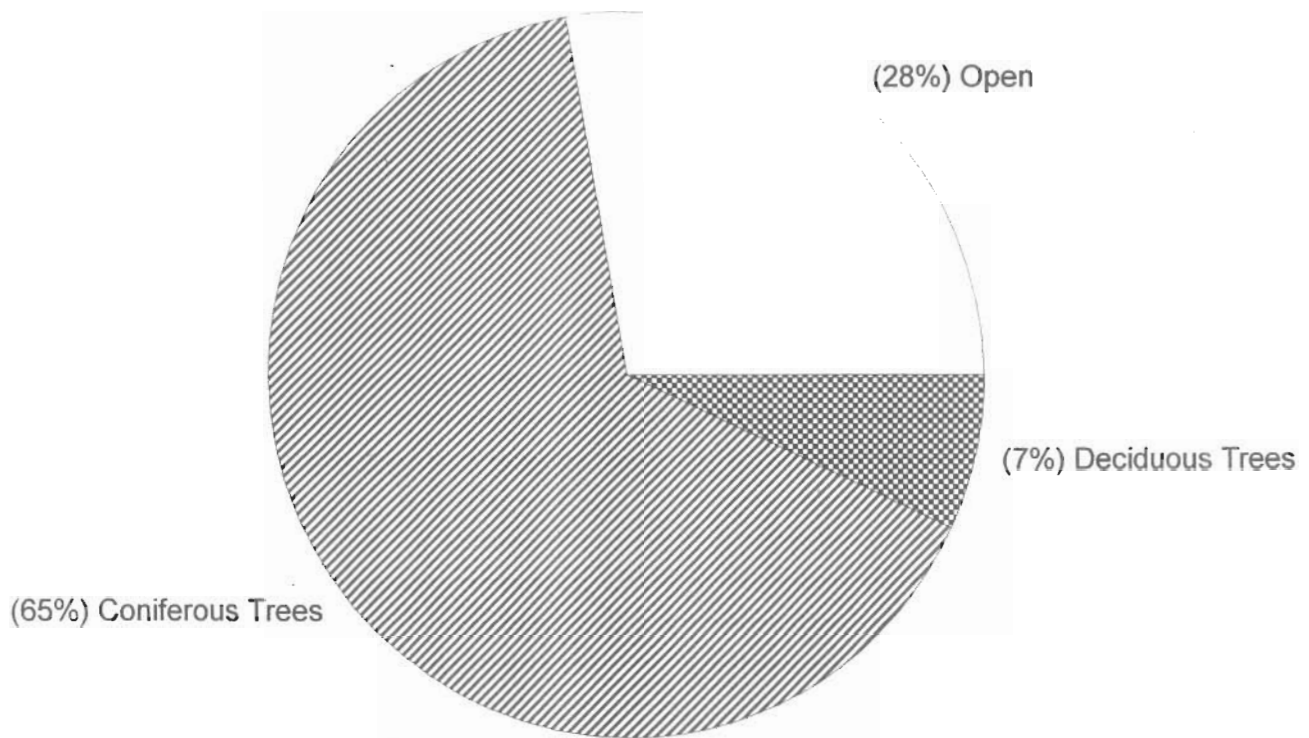
## Substrate Composition in Low Gradient Riffles



Graph 7

# Atascadero Creek

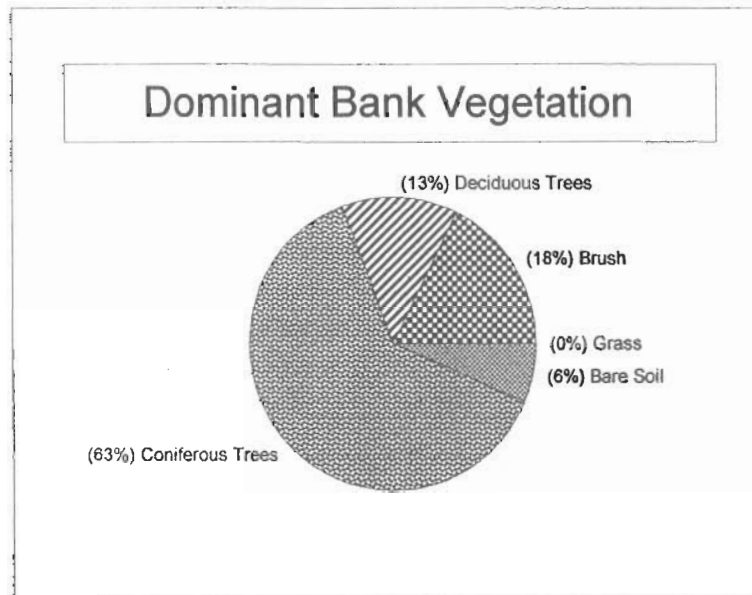
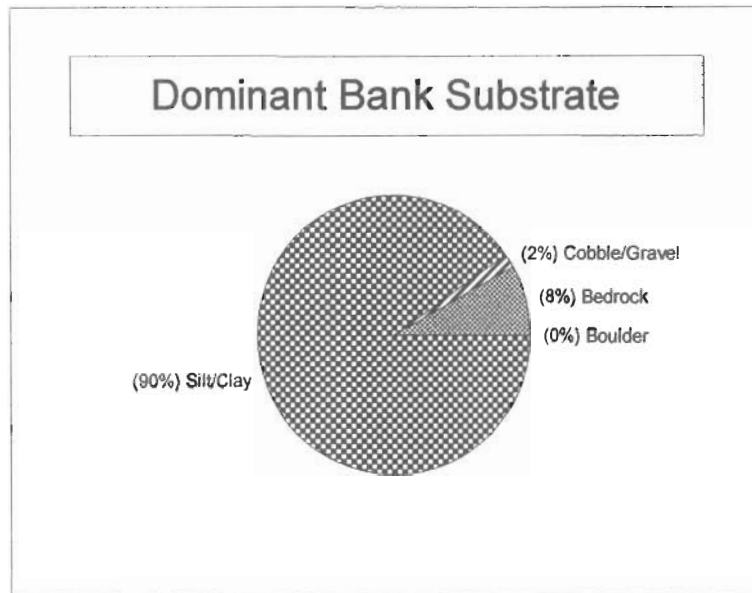
## Mean Percent Canopy



Graph 8

# Atascadero Creek

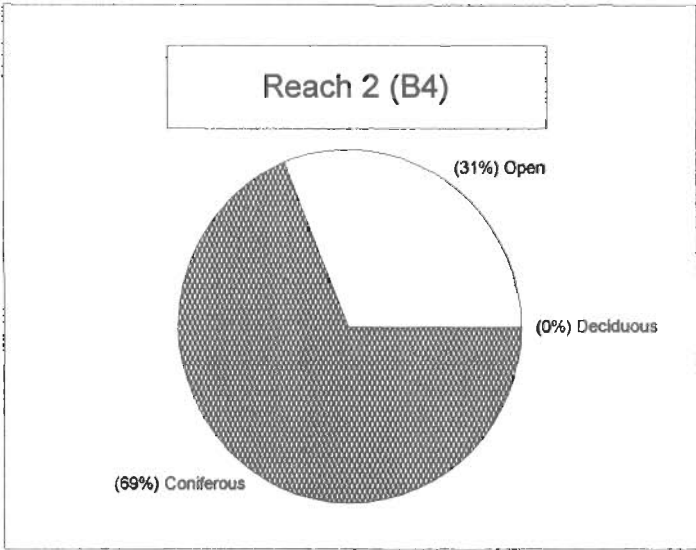
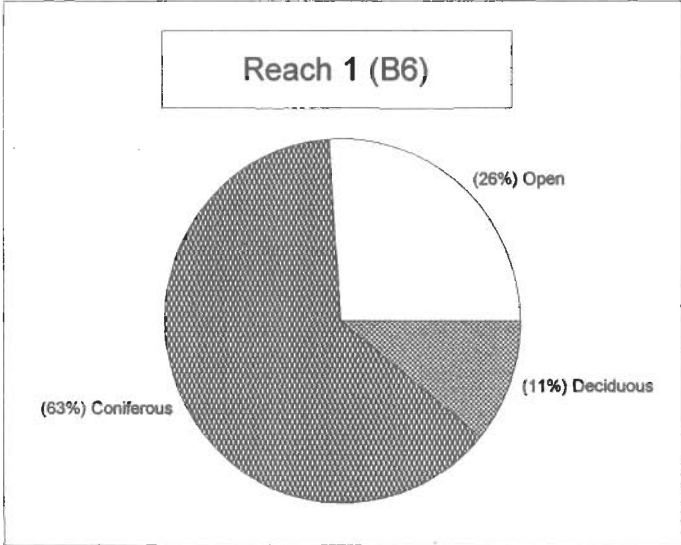
## Percent Bank Composition



Graph 9

# Atascadero Creek

## Percent Canopy by Reach



Graph 11

Jonive and Atascadero Creek Tempentor Summary  
 Mean Highs and Lows by Month

