

### Subwatershed C Flood Control Rating Curve

| Basin 3C-3        |               |                                     |                                |
|-------------------|---------------|-------------------------------------|--------------------------------|
| Elevation<br>(ft) | Depth<br>(ft) | 284.8' Tailwater (cfs) <sup>1</sup> | Volume<br>(ac-ft) <sup>2</sup> |
| 278               | 0             | -89                                 | 0                              |
| 279               | 1             | -89                                 | 2                              |
| 280               | 2             | -82                                 | 6                              |
| 281               | 3             | -82                                 | 13                             |
| 282               | 4             | -76                                 | 21                             |
| 283               | 5             | -70                                 | 30                             |
| 284               | 6             | -67                                 | 41                             |
| 285               | 7             | 62                                  | 53                             |
| 286               | 8             | 279                                 | 66                             |
| 287               | 9             | 623                                 | 79                             |
| 288               | 10            | 930                                 | 92                             |
| 289               | 11            | 1,083                               | 105                            |
| 290               | 12            | 1,210                               | 119                            |
| 291               | 13            | 1,319                               | 133                            |
| 292               | 14            | 1,415                               | 148                            |
| 293               | 15            | 1,504                               | 162                            |
| 294               | 16            | 1,799                               | 177                            |
| 295               | 17            | 2,767                               | 193                            |
| 296               | 18            | 4,110                               | 208                            |
| 297               | 19            | 5,737                               | 224                            |

**4E-1 Rating Table**

| <b>Interval Number</b> | <b>Headwater Elevation (ft)</b> | <b>Oulet Discharge (cfs)</b> | <b>Storage Volume (ac-ft)</b> |
|------------------------|---------------------------------|------------------------------|-------------------------------|
| 1                      | -                               | 0.0                          | 0.00                          |
| 2                      | 1.0                             | 0.8                          | 1.52                          |
| 3                      | 2.0                             | 1.3                          | 3.15                          |
| 4                      | 3.0                             | 1.6                          | 4.90                          |
| 5                      | 4.0                             | 1.8                          | 6.79                          |
| 6                      | 5.0                             | 2.1                          | 8.81                          |
| 7                      | 6.0                             | 2.3                          | 10.97                         |
| 8                      | 7.0                             | 47.9                         | 13.27                         |
| 9                      | 8.0                             | 131.6                        | 15.72                         |
| 10                     | 9.0                             | 241.7                        | 18.32                         |
| 11                     | 10.0                            | 372.8                        | 21.06                         |

**4F-1 Rating Table**

| <b>Interval Number</b> | <b>Headwater Elevation (ft)</b> | <b>Oulet Discharge (cfs)</b> | <b>Storage Volume (ac-ft)</b> |
|------------------------|---------------------------------|------------------------------|-------------------------------|
| 1                      | -                               | 0.0                          | 0.00                          |
| 2                      | 1.0                             | 0.8                          | 2.46                          |
| 3                      | 2.0                             | 1.3                          | 5.02                          |
| 4                      | 3.0                             | 1.6                          | 7.69                          |
| 5                      | 4.0                             | 17.0                         | 10.46                         |
| 6                      | 5.0                             | 23.4                         | 13.33                         |
| 7                      | 6.0                             | 28.5                         | 16.31                         |
| 8                      | 7.0                             | 230.7                        | 19.40                         |
| 9                      | 8.0                             | 625.8                        | 22.60                         |
| 10                     | 9.0                             | 1142.4                       | 25.91                         |
| 11                     | 10.0                            | 1723.0                       | 29.34                         |

**4E-1 Rating Table**

| <b>Interval Number</b> | <b>Headwater Elevation (ft)</b> | <b>Oulet Discharge (cfs)</b> | <b>Storage Volume (ac-ft)</b> |
|------------------------|---------------------------------|------------------------------|-------------------------------|
| 1                      | -                               | 0.0                          | 0.00                          |
| 2                      | 1.0                             | 0.8                          | 1.52                          |
| 3                      | 2.0                             | 1.3                          | 3.15                          |
| 4                      | 3.0                             | 1.6                          | 4.90                          |
| 5                      | 4.0                             | 1.8                          | 6.79                          |
| 6                      | 5.0                             | 2.1                          | 8.81                          |
| 7                      | 6.0                             | 2.3                          | 10.97                         |
| 8                      | 7.0                             | 47.9                         | 13.27                         |
| 9                      | 8.0                             | 131.6                        | 15.72                         |
| 10                     | 9.0                             | 241.7                        | 18.32                         |
| 11                     | 10.0                            | 372.8                        | 21.06                         |

### 5-2 Stage Storage Curve

| Interval Number | Headwater Elevation (ft) | Oulet Discharge (cfs) | Storage Volume (ac-ft) |
|-----------------|--------------------------|-----------------------|------------------------|
| 1               | -                        | 0                     | 0                      |
| 2               | 1.0                      | 0.011                 | 20.81                  |
| 3               | 2.0                      | 21.5                  | 41.79                  |
| 4               | 3.0                      | 41.2                  | 62.95                  |
| 5               | 4.0                      | 61.8                  | 84.28                  |
| 6               | 5.0                      | 78.6                  | 105.8                  |
| 7               | 6.0                      | 92.2                  | 127.49                 |
| 8               | 7.0                      | 104.1                 | 149.37                 |
| 9               | 8.0                      | 114.7                 | 171.43                 |
| 10              | 9.0                      | 124.4                 | 193.67                 |
| 11              | 10.0                     | 133.4                 | 216.09                 |

NOTE: Basin curve from 2013 Ranch Plan ROMP

**Flowby B Diversion**

| DATA PAIR NUMBER | Qenter (CFS) | Qpass (CFS) |
|------------------|--------------|-------------|
| -                | 0            | 0           |
| 1                | 25           | 13.59       |
| 2                | 75           | 16.84       |
| 3                | 100          | 18.46       |
| 4                | 250          | 28.22       |
| 5                | 550          | 47.73       |

NOTE: The flow bys were determined by taking the outflows of the pipes/weirs for all outlets from the diversion/basin from pondpack. The flows were added together to find the Qenter and the Qpass was the flow that did not go into the basin that is being routed to.

### 3B-1 Stage Storage Curve

| Interval Number | Headwater Elevation (ft) | Outlet Discharge (cfs) | Storage Volume (ac-ft) |
|-----------------|--------------------------|------------------------|------------------------|
| 1               | -                        | 0                      | 0                      |
| 2               | 1.0                      | 0.011                  | 0.31                   |
| 3               | 2.0                      | 0.83                   | 1.24                   |
| 4               | 3.0                      | 5.6                    | 2.60                   |
| 5               | 4.0                      | 16.88                  | 4.13                   |
| 6               | 5.0                      | 23.48                  | 5.79                   |
| 7               | 6.0                      | 36.73                  | 7.56                   |
| 8               | 7.0                      | 55.95                  | 9.44                   |
| 9               | 8.0                      | 78.7                   | 11.43                  |
| 10              | 9.0                      | 228.67                 | 12.46                  |

**DEAD STORAGE(AF) = 2.07 (Infiltration)**

**SPECIFIED DEAD STORAGE(AF) FILLED = 0.0**

NOTE: Basin curves are from Pondpack composite outlet structure, refer to Appendix H.10.

### 3B-4 Stage Storage Curve

| Interval Number | Headwater Elevation (ft) | Oulet Discharge (cfs) | Storage Volume (ac-ft) |
|-----------------|--------------------------|-----------------------|------------------------|
| 1               | -                        | 0                     | 0.00                   |
| 2               | 1.0                      | 1.84                  | 0.26                   |
| 3               | 2.0                      | 3.22                  | 1.16                   |
| 4               | 3.0                      | 4.16                  | 2.52                   |
| 5               | 4.0                      | 4.94                  | 3.99                   |
| 6               | 5.0                      | 5.6                   | 5.55                   |
| 7               | 6.0                      | 7.17                  | 7.20                   |
| 8               | 7.0                      | 14.13                 | 8.95                   |
| 9               | 8.0                      | 18.54                 | 10.80                  |
| 10              | 9.0                      | 21.9                  | 12.74                  |
| 11              | 10.0                     | 24.73                 | 14.78                  |
| 12              | 11.0                     | 37.17                 | 16.92                  |
| 13              | 12.0                     | 57.63                 | 19.16                  |
| 14              | 13.0                     | 83.32                 | 21.50                  |
| 15              | 14.0                     | 112.96                | 23.94                  |
| 16              | 15.0                     | 133.28                | 26.48                  |
| 17              | 16.0                     | 144.34                | 29.15                  |
| 18              | 17.0                     | 154.45                | 31.95                  |
| 19              | 18.0                     | 163.94                | 34.87                  |
| 20              | 19.0                     | 172.92                | 37.94                  |
| 21              | 20.0                     | 181.39                | 41.14                  |
| 22              | 21.0                     | 189.45                | 44.50                  |
| 23              | 22.0                     | 197.22                | 48.01                  |
| 24              | 23.0                     | 466.7                 | 51.74                  |
| 25              | 24.0                     | 951.81                | 53.82                  |

NOTE: Basin curves are from Pondpack composite outlet structure, refer to Appendix H.10.



**Flowby Gobernadora  
Multipurpose Basin Side  
Weir**

| DATA PAIR<br>NUMBER | Qenter<br>(CFS) | Qpass<br>(CFS) |
|---------------------|-----------------|----------------|
| -                   | 0               | 0              |
| 1                   | 413             | 413            |
| 2                   | 1897            | 1613           |
| 3                   | 4682            | 3013           |
| 4                   | 6819            | 4013           |
| 5                   | 8100            | 4613           |

NOTE: From 2014 Design Report:  
Gobernadora Multipurpose Basin

## Gobernadora Upper Basin Stage Storage Curve

| Interval<br>Number | Headwater<br>Elevation<br>(ft) | Oulet<br>Discharge<br>(cfs) | Storage<br>Volume<br>(ac-ft) |
|--------------------|--------------------------------|-----------------------------|------------------------------|
| 1                  | -                              | 0                           | 0                            |
| 2                  | 1.5                            | 0.01                        | 0.002                        |
| 3                  | 2.0                            | 0.02                        | 1.9                          |
| 4                  | 4.0                            | 0.03                        | 16.1                         |
| 5                  | 4.3                            | 0.05                        | 18.2                         |
| 6                  | 5.0                            | 314                         | 23.2                         |
| 7                  | 6.0                            | 1306                        | 30.3                         |
| 8                  | 7.0                            | 2847                        | 39.1                         |
| 9                  | 8.0                            | 4942                        | 47.8                         |

**DEAD STORAGE(AF) = 5.700**

**SPECIFIED DEAD STORAGE(AF) FILLED = 5.700**

NOTE: From 2014 Design Report: Gobernadora  
Multipurpose Basin

**Gobernadora Lower West Basin Stage  
Storage Curve**

| <b>Interval<br/>Number</b> | <b>Headwater<br/>Elevation<br/>(ft)</b> | <b>Oulet<br/>Discharge<br/>(cfs)</b> | <b>Storage<br/>Volume<br/>(ac-ft)</b> |
|----------------------------|---|--------------------------------------|---------------------------------------|
| 1                          | 0                                       | 0                                    | 0                                     |
| 2                          | 0.99                                    | 2.9                                  | 0.9                                   |
| 3                          | 1.99                                    | 11.38                                | 2.9                                   |
| 4                          | 3.99                                    | 19.63                                | 10.3                                  |
| 5                          | 5.99                                    | 25.19                                | 20.7                                  |
| 6                          | 7.99                                    | 29.71                                | 31.7                                  |
| 7                          | 9.99                                    | 33.62                                | 43.5                                  |
| 8                          | 10.99                                   | 35.49                                | 49.7                                  |
| 9                          | 11.99                                   | 313.49                               | 56.4                                  |
| 10                         | 12.99                                   | 894.27                               | 63.1                                  |
| 11                         | 13.99                                   | 1748.55                              | 69.9                                  |
| 12                         | 15.99                                   | 4306.91                              | 84.1                                  |

NOTE: From 2014 Design Report: Gobernadora  
Multipurpose Basin

**Gobernadora Lower West Basin Stage  
Storage Curve**

| <b>Interval<br/>Number</b> | <b>Headwater<br/>Elevation<br/>(ft)</b> | <b>Oulet<br/>Discharge<br/>(cfs)</b> | <b>Storage<br/>Volume<br/>(ac-ft)</b> |
|----------------------------|---|--------------------------------------|---------------------------------------|
| 1                          | 0                                       | 0                                    | 0                                     |
| 2                          | 0.48                                    | 0.7                                  | 0.4                                   |
| 3                          | 1.48                                    | 6.5                                  | 1.8                                   |
| 4                          | 3.48                                    | 18.11                                | 8.5                                   |
| 5                          | 5.48                                    | 23.99                                | 17.9                                  |
| 6                          | 7.48                                    | 28.68                                | 27.8                                  |
| 7                          | 9.48                                    | 32.7                                 | 38.3                                  |
| 8                          | 10.48                                   | 34.5                                 | 43.9                                  |
| 9                          | 11.48                                   | 36.29                                | 49.4                                  |
| 10                         | 12.48                                   | 314.07                               | 55.9                                  |
| 11                         | 13.48                                   | 895                                  | 62.3                                  |
| 12                         | 15.48                                   | 2882.95                              | 74.7                                  |

NOTE: From 2014 Design Report: Gobernadora  
Multipurpose Basin

### Flowby to 3A-2

| DATA PAIR NUMBER | Qcenter (CFS) | Qpass (CFS) |
|------------------|---------------|-------------|
| -                | 0             | 0           |
| 1                | 10            | 7           |
| 2                | 50            | 50          |
| 3                | 100           | 85          |
| 4                | 500           | 485         |
| 5                | 1000          | 985         |

**NOTE:**

1. The flow bys were determined by taking the outflows of the pipes/weirs for all outlets from the diversion/basin from pondpack. The flows were added together to find the Qcenter and the Qpass was the flow that did not go into the basin that is being routed to.
2. Not in Regional Models, basins will attenuate the lower storm events.

### Flowby to 3A-2

| DATA PAIR NUMBER | Qcenter (CFS) | Qpass (CFS) |
|------------------|---------------|-------------|
| -                | 0             | 0           |
| 1                | 10            | 6           |
| 2                | 50            | 30          |
| 3                | 100           | 63          |
| 4                | 250           | 160         |
| 5                | 550           | 444         |

**NOTE:**

1. The flow bys were determined by taking the outflows of the pipes/weirs for all outlets from the diversion/basin from pondpack. The flows were added together to find the Qcenter and the Qpass was the flow that did not go into the basin that is being routed to.
2. Not in Regional Models, basins will attenuate the lower storm events.

### Flowby to 3A-5

| DATA PAIR NUMBER | Qenter (CFS) | Qpass (CFS) |
|------------------|--------------|-------------|
| -                | 0            | 0           |
| 1                | 50           | 18          |
| 2                | 100          | 31          |
| 3                | 250          | 34          |
| 4                | 750          | 80          |
| 5                | 1200         | 120         |

**NOTE:**

1. The flow bys were determined by taking the outflows of the pipes/weirs for all outlets from the diversion/basin from pondpack. The flows were added together to find the Qenter and the Qpass was the flow that did not go into the basin that is being routed to.
2. Not in Regional Models, basins will attenuate the lower storm events.

### 3A-5 Stage Storage Curve

| Interval Number | Headwater Elevation (ft) | Oulet Discharge (cfs) | Storage Volume (ac-ft) |
|-----------------|--------------------------|-----------------------|------------------------|
| 1               | 0                        | 0                     | 0                      |
| 2               | 1                        | 2                     | 4.3                    |
| 3               | 2                        | 2                     | 6.1                    |
| 4               | 3                        | 2                     | 8.0                    |
| 5               | 4                        | 43                    | 10.0                   |
| 6               | 5                        | 45                    | 11.9                   |

**NOTE:**

1. Outfall is from combined pipes discharging from the basin to Gobernadora. Volume is from SOHM.
2. Basins not included in regional models, they will attenuate the lower storm events.



### Flowby to 3A-6

| DATA PAIR NUMBER | Qcenter (CFS) | Qpass (CFS) |
|------------------|---------------|-------------|
| -                | 0             | 0           |
| 1                | 50            | 16          |
| 2                | 100           | 31          |
| 3                | 250           | 69          |
| 4                | 500           | 70          |
| 5                | 1000          | 75          |

**NOTE:**

1. The flow bys were determined by taking the outflows of the pipes/weirs for all outlets from the diversion/basin from pondpack. The flows were added together to find the Qcenter and the Qpass was the flow that did not go into the basin that is being routed to.
2. Not in Regional Models, basins will attenuate the lower storm events.

### 3A-6 Stage Storage Curve

| Interval Number | Headwater Elevation (ft) | Oulet Discharge (cfs) | Storage Volume (ac-ft) |
|-----------------|--------------------------|-----------------------|------------------------|
| 1               | -                        | 0                     | 0.0                    |
| 2               | 1.0                      | 3                     | 2.7                    |
| 3               | 2.0                      | 3                     | 3.8                    |
| 4               | 3.0                      | 9                     | 5.1                    |
| 5               | 4.0                      | 71                    | 6.2                    |
| 6               | 5.0                      | 75                    | 7.6                    |

**NOTE:**

1. Outfall is from combined pipes discharging from the basin to Gobernadora. Volume is from SOHM.
2. Basins not included in regional models, they will attenuate the lower storm events.

### Flowby to Outlet 9

| DATA PAIR<br>NUMBER | Qcenter<br>(CFS) | Qpass<br>(CFS) |
|---------------------|------------------|----------------|
| -                   | 0                | 0              |
| 1                   | 50               | 50             |
| 2                   | 100              | 100            |
| 3                   | 250              | 250            |
| 4                   | 550              | 445            |
| 5                   | 700              | 450            |

### Flowby to 3A-7

| DATA PAIR NUMBER | Qcenter (CFS) | Qpass (CFS) |
|------------------|---------------|-------------|
| -                | 0             | 0           |
| 1                | 50            | 14          |
| 2                | 100           | 23          |
| 3                | 250           | 24          |
| 4                | 500           | 24          |
| 5                | 1200          | 25          |

**NOTE:**

1. The flow bys were determined by taking the outflows of the pipes/weirs for all outlets from the diversion/basin from pondpack. The flows were added together to find the Qcenter and the Qpass was the flow that did not go into the basin that is being routed to.
2. Not in Regional Models, basins will attenuate the lower storm events.

### 3A-7 Stage Storage Curve

| Interval Number | Headwater Elevation (ft) | Oulet Discharge (cfs) | Storage Volume (ac-ft) |
|-----------------|--------------------------|-----------------------|------------------------|
| 1               | -                        | 0                     | 0                      |
| 2               | 1                        | 2                     | 3.1                    |
| 3               | 2                        | 2                     | 4.3                    |
| 4               | 3                        | 7                     | 5.5                    |
| 5               | 4                        | 25                    | 6.9                    |
| 6               | 5                        | 30                    | 8.3                    |

**NOTE:**

1. Outfall is from combined pipes discharging from the basin to Gobernadora. Volume is from SOHM.
2. Basins not included in regional models, they will attenuate the lower storm events.

### 3A-9 Stage Storage Curve

| Interval Number | Headwater Elevation (ft) | Oulet Discharge (cfs) | Storage Volume (ac-ft) |
|-----------------|--------------------------|-----------------------|------------------------|
| 1               | -                        | 0                     | 0                      |
| 2               | 1.0                      | 83                    | 4.3                    |
| 3               | 2.0                      | 380                   | 8.9                    |
| 4               | 3.0                      | 400                   | 13.3                   |
| 5               | 4.0                      | 478                   | 18.0                   |
| 6               | 5.0                      | 600                   | 23.1                   |

**NOTE:**

1. Outfall is from combined pipes discharging from the basin to Gobernadora. Volume is from SOHM.
2. Basins not included in regional models, they will attenuate the lower storm events.

### Flowby to 3A-9

| DATA PAIR NUMBER | Qenter (CFS) | Qpass (CFS) |
|------------------|--------------|-------------|
| -                | 0            | 0           |
| 1                | 5            | 2           |
| 2                | 25           | 2           |
| 3                | 75           | 2           |
| 4                | 250          | 2           |
| 5                | 500          | 84          |

**NOTE:**

1. The flow bys were determined by taking the outflows of the pipes/weirs for all outlets from the diversion/basin from pondpack. The flows were added together to find the Qenter and the Qpass was the flow that did not go into the basin that is being routed to.
2. Not in Regional Models, basins will attenuate the lower storm events.

### 3A-10 Stage Storage Curve

| Interval Number | Headwater Elevation (ft) | Oulet Discharge (cfs) | Storage Volume (ac-ft) |
|-----------------|--------------------------|-----------------------|------------------------|
| 2               | 1                        | 48                    | 2.1                    |
| 3               | 2                        | 196                   | 4.3                    |
| 4               | 3                        | 225                   | 6.4                    |
| 5               | 4                        | 301                   | 9.1                    |
| 6               | 5                        | 378                   | 11.6                   |

**NOTE:**

1. Outfall is from combined pipes discharging from the basin to Gobernadora. Volume is from SOHM.
2. Basins not included in regional models, they will attenuate the lower storm events.



### Flowby to 3A-10

| DATA PAIR NUMBER | Qenter (CFS) | Qpass (CFS) |
|------------------|--------------|-------------|
| -                | 0            | 0           |
| 1                | 5            | 2           |
| 2                | 10           | 2           |
| 3                | 50           | 3           |
| 4                | 100          | 34          |
| 5                | 325          | 127         |

**NOTE:**

1. The flow bys were determined by taking the outflows of the pipes/weirs for all outlets from the diversion/basin from pondpack. The flows were added together to find the Qenter and the Qpass was the flow that did not go into the basin that is being routed to.
2. Not in Regional Models, basins will attenuate the lower storm events.

### 3A-11 Stage Storage Curve

| Interval Number | Headwater Elevation (ft) | Oulet Discharge (cfs) | Storage Volume (ac-ft) |
|-----------------|--------------------------|-----------------------|------------------------|
| 1               | -                        | 0                     | 0                      |
| 2               | 1                        | 21                    | 2.0                    |
| 3               | 2                        | 114                   | 4.2                    |
| 4               | 3                        | 131                   | 6.4                    |
| 5               | 4                        | 176                   | 8.8                    |
| 6               | 5                        | 221                   | 11.2                   |

**NOTE:**

1. Outfall is from combined pipes discharging from the basin to Gobernadora. Volume is from SOHM.
2. Basins not included in regional models, they will attenuate the lower storm events.