

## **Section 9812- Santa Barbara County**

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### **9812.1 Response Summary Tables**

A summary of the response resources is listed by site and sub-strategy next.

## Summary of ACP 4 GRA 4, 5 & 6 Response Resources by Site and Sub-Strategy

| Site   | SiteName   | Equipment | Sub-Type             | Size/Unit    | QTY/Unit  |
|--|--|-----------|----------------------|--------------|-----------|
| Sub-Strategy   | PREVENTION OBJECTIVE OR CONDITION FOR DEPLOYMENT |           |                      |              |           |
| 4-505  | Point Sal  |           |                      |              |           |
| .1 - No Onsite Options: Consider Offshore Containment/Recovery/ART |  |           |                      |              |           |
| 4-510  | Schuman Creek                                    |           |                      |              |           |
| .1 - ExcludeOil  |  |           |                      |              |           |
|  |  | Boom      | Swamp Boom           |              | 100 feet  |
|  |  | Anchor    |                      |              | 5         |
|  |  | Boom      | Sorbent Boom         |              | 80 feet   |
|  |  | Vehicle   | ATV                  |              | 1         |
|  |  | Staff     | Staff                |              | 5         |
| .2 - Erect Filter Fence  |  |           |                      |              |           |
|  |  | Staff     |                      |              | 4         |
|  |  | Fence     | Construction Fencing | 4 x 100 feet | 2 Rolls   |
|  |  | Stakes    | T-posts              | 6 feet       | 20        |
|  |  | Vehicle   | ATV                  |              | 1         |
|  |  | Misc.     | Oil Snare (pom-pom)  |              | 80        |
|  |  | Misc.     | Stake Driver         |              | 1         |
| 4-515  | San Antonio Creek                                |           |                      |              |           |
| .1 - ExcludeOil  |  |           |                      |              |           |
|  |  | Boom      | Swamp Boom           | 1500 feet    |           |
|  |  | Anchor    |                      | 8            |           |
|  |  | Staff     | Staff                | 5            |           |
|  |  | Vehicle   | ATV                  | 1            |           |
|  |  | Boom      | Sorbent Boom         | 1500 feet    |           |
| .2 - Erect Filter Fence  |  |           |                      |              |           |
|  |  | Vehicle   | ATV                  |              | 1         |
|  |  | stakes    | T-posts              | 6 feet       | 30        |
|  |  | Misc.     | Oil Snare (pom-pom)  |              | 750       |
|  |  | Misc.     | Stake Driver         |              | 1         |
|  |  | Staff     |                      |              | 5         |
|  |  | Fence     | Construction Fencing | 4 x 100 feet | 15 Rolls  |
| .3 - Build Sandbag Dam   |  |           |                      |              |           |
|  |  | Vehicle   | ATV                  |              | 1         |
|  |  | Boom      | Sorbent Boom         |              | 1500 feet |
|  |  | Staff     |                      |              | 5         |
|  |  | Sandbags  |                      |              | 300       |
|  |  | Anchor    |                      |              | 8         |
| 4-520  | Lion's Head to Purisima Point: North             |           |                      |              |           |
| .1 - No Onsite Options: Consider Offshore Containment/Recovery/ART |  |           |                      |              |           |
| 4-525  | Purisima Point                                   |           |                      |              |           |
| .1 - No Onsite Options: Consider Offshore Containment/Recovery/ART |  |           |                      |              |           |
| 4-540  | Santa YnezRiver                                  |           |                      |              |           |
| .1 - Exclude Oil   |  |           |                      |              |           |
|  |  | Boom      | Swamp Boom           |              | 2400 feet |
|  |  | Staff     | Staff                |              | 5         |
|  |  | Vessel    | Skiff or Punt        |              | 1         |
|  |  | Boom      | Sorbent Boom         |              | 1000 feet |
|  |  | Anchor    |                      |              | 6         |
| 4-550  | Ocean (Wall and Surf) Beach                      |           |                      |              |           |
| .1 - No Onsite Options: Consider Offshore Containment/Recovery/ART |  |           |                      |              |           |





| Site                    | SiteName                      | PREVENTION OBJECTIVE OR CONDITION FOR DEPLOYMENT |              |          |
|-------------------------|-------------------------------|--|--------------|----------|
| Sub-Strategy            | Equipment                     | Sub-Type   | Size/Unit    | QTY/Unit |
| 4-580                   | Canada De Santa Anita (Creek) |  |              |          |
| .1 - Exclude Oil        |                               |  |              |          |
|                         | Boom                          | Swamp Boom                                       |              | 200 feet |
|                         | Boom                          | Sorbent Boom                                     |              | 200 feet |
|                         | Anchor                        |  |              | 4        |
|                         | Vehicle                       | ATV  |              | 1        |
|                         | Staff                         | Staff  |              | 5        |
| .2 - Erect Filter Fence |                               |  |              |          |
|                         | Fence                         | Construction Fencing                             | 4 x 100 feet | 4 Rolls  |
|                         | stakes                        | T-posts  | 6 feet       | 80       |
|                         | Misc.                         | Stake Driver                                     |              | 1        |
|                         | Staff                         |  |              | 5        |
|                         | Misc.                         | Oil Snare (pom-pom)                              |              | 200      |
|                         | Vehicle                       | ATV  |              | 1        |
| .3 - Build Sandbag Dam  |                               |  |              |          |
|                         | Boom                          | Sorbent Boom                                     |              | 200 feet |
|                         | Sandbags                      |  |              | 150      |
|                         | stakes                        |  |              | 20       |
|                         | Staff                         |  |              | 5        |
|                         | Vehicle                       | ATV  |              | 1        |
| 4-585                   | Canada De Alegria             |  |              |          |
| .1 - Exclude Oil        |                               |  |              |          |
|                         | Vehicle                       | ATV  |              | 1        |
|                         | Boom                          | Sorbent Boom                                     |              | 200 feet |
|                         | Staff                         |  |              | 5        |
|                         | Boom                          | Swamp Boom                                       |              | 200 feet |
|                         | Anchor                        |  |              | 4        |
| .2 - Build Sandbag Dam  |                               |  |              |          |
|                         | Staff                         |  |              | 5        |
|                         | Boom                          | Sorbent Boom                                     |              | 200 feet |
|                         | stakes                        |  |              | 20       |
|                         | Vehicle                       | ATV  |              | 1        |
|                         | Sandbags                      |  |              | 150      |
| .3 - Erect Filter Fence |                               |  |              |          |
|                         | Fence                         | Construction Fencing                             | 4 x 100 feet | 4 Rolls  |
|                         | Staff                         |  |              | 5        |
|                         | Vehicle                       | ATV  |              | 1        |
|                         | Misc.                         | Stake Driver                                     |              | 1        |
|                         | stakes                        | T-posts  | 6 feet       | 20       |
|                         | Misc.                         | Oil Snare (pom-pom)                              |              | 200      |
| 4-590                   | Canada Del Agua Caliente      |  |              |          |
| .1 - Exclude Oil        |                               |  |              |          |
|                         | Boom                          | Swamp Boom                                       |              | 200 feet |
|                         | Staff                         |  |              | 5        |
|                         | Boom                          | Sorbent Boom                                     |              | 200 feet |
|                         | Anchor                        |  |              | 4        |
|                         | Vehicle                       | ATV  |              | 1        |
| .2 - Build Sandbag Dam  |                               |  |              |          |
|                         | Boom                          | Sorbent Boom                                     |              | 200 feet |
|                         | stakes                        |  |              | 20       |
|                         | Staff                         |  |              | 5        |
|                         | Vehicle                       | ATV  |              | 1        |
|                         | Sandbags                      |  |              | 150      |
| .3 - Erect Filter Fence |                               |  |              |          |
|                         | Vehicle                       | ATV  |              | 1        |
|                         | Staff                         |  |              | 5        |
|                         | Misc.                         | Stake Driver                                     |              | 1        |
|                         | stakes                        |  |              | 20       |
|                         | Misc.                         | Oil Snare (pom-pom)                              |              | 200      |
|                         | Fence                         | Construction Fencing                             | 4 x 100 feet | 4 Rolls  |

| Site   | SiteName   |                      |              |
|--|--|----------------------|--------------|
| Sub-Strategy   | PREVENTION OBJECTIVE OR CONDITION FOR DEPLOYMENT |                      |              |
|  | Equipment Sub-Type                               | Size/Unit            | QTY/Unit     |
| 4-601  | Gaviota Creek                                    |                      |              |
| .1 - Exclude Oil   |  |                      |              |
|  | Boom   | Sorbent              | 400 feet     |
|  | Vehicle  | ATV                  | 1            |
|  | Boom   | Swamp Boom           | 400 feet     |
|  | Staff  |                      | 5            |
|  | Anchor   |                      | 8            |
| .2 - Shoreline Pre-Clean: Resource Specialist Supervision Required |  |                      |              |
|  | Staff  |                      | 5            |
|  | Misc.  | Trash Bags           |              |
|  | Vehicle  | ATV                  | 1            |
| 4-605  | Canada Del Alcatraz & Cementario Creeks          |                      |              |
| .1 - Build Sandbag Dam   |  |                      |              |
|  | Sandbags   |                      | 50           |
|  | Boom   | Sorbent Boom         | 40 feet      |
|  | Vehicle  | ATV                  | 1            |
|  | Staff  |                      | 5            |
| .2 - Erect Filter Fence  |  |                      |              |
|  | stakes   | T-posts              | 16           |
|  | Stake driver                                     |                      | 1            |
|  | Misc.  | Oil Snare (pom-pom)  | 40           |
|  | Vehicle  | ATV                  | 1            |
|  | Staff  |                      | 5            |
|  | Fence  | Construction Fencing | 4 x 100 feet |
|  |  |                      | 1 Rolls      |
| .3 - Shoreline Pre-Clean: Resource Specialist Supervision Required |  |                      |              |
|  | Vehicle  | ATV                  | 1            |
|  | Staff  |                      | 5            |
|  | Misc.  | Trash Bags           |              |
| 4-607  | Arroyo Hondo Preserve and Creek                  |                      |              |
| .1 - Exclude Oil   |  |                      |              |
|  | Boom   | Sorbent Boom         | 300 feet     |
|  | Staff  |                      | 5            |
|  | Vehicle  | ATV                  | 1            |
|  | Anchor   |                      | 2            |
|  | Boom   | Swamp Boom           | 300 feet     |
| .2 - Erect Filter Fence  |  |                      |              |
|  | Stake driver                                     |                      | 1            |
|  | Staff  |                      | 5            |
|  | stakes   | T-posts              | 20           |
|  | Misc.  | Oil Snare (pom-pom)  | 360          |
|  | Fence  | Construction Fencing | 4 x 100 feet |
|  |  |                      | 2 Rolls      |
|  | Vehicle  | ATV                  | 1            |
| .3 - Shoreline Pre-Clean: Resource Specialist Supervision Required |  |                      |              |
|  | Vehicle  | ATV                  | 1            |
|  | Misc.  | Trash Bags           |              |
|  | Staff  |                      | 5            |



| Site   | SiteName                            | PREVENTION OBJECTIVE OR CONDITION FOR DEPLOYMENT |              |          |
|--|-------------------------------------|--|--------------|----------|
| Sub-Strategy   | Equipment                           | Sub-Type   | Size/Unit    | QTY/Unit |
| 4-620  | Las Llagas (El Capitan Ranch Beach) |  |              |          |
| .1 - Exclude Oil   |                                     |  |              |          |
|  | Staff                               |  |              | 5        |
|  | anchors                             |  |              | 3        |
|  | Vehicle                             | ATV  |              | 1        |
|  | Boom                                | Sorbent Boom                                     |              | 200 feet |
|  | Boom                                | Swamp Boom                                       |              | 200 feet |
| .2 - Build Sandbag Dam   |                                     |  |              |          |
|  | Sandbags                            |  |              | 100      |
|  | stakes                              |  |              | 20       |
|  | Boom                                | Sorbent Boom                                     |              | 200 feet |
|  | Staff                               |  |              | 5        |
|  | Vehicle                             | ATV  |              | 1        |
| .3 - Erect Filter Fence  |                                     |  |              |          |
|  | Fence                               | Construction Fencing                             | 4 x 100 feet | 2 Rolls  |
|  | Misc.                               | Oil Snare (pom-pom)                              |              | 40       |
|  | stakes                              | T-posts  | 6 feet       | 16       |
|  | Misc.                               | T-posts  |              | 1        |
|  | Staff                               |  |              | 5        |
|  | Vehicle                             | ATV  |              | 1        |
| .4 - Shoreline Pre-Clean: Resource Specialist Supervision Required |                                     |  |              |          |
|  | Misc.                               | Trash Bags                                       |              |          |
|  | Staff                               |  |              | 5        |
|  | Vehicle                             | ATV  |              | 1        |
| 4-625  | Naples                              |  |              |          |
| .1 - Shoreline Pre-Clean: Resource Specialist Supervision Required |                                     |  |              |          |
|  | Staff                               |  |              | 5        |
|  | Vehicle                             | ATV  |              | 1        |
|  | Misc.                               | Trash Bags                                       |              |          |
| 4-630  | Eagle CanyonCreek                   |  |              |          |
| .1 - Build Sandbag Dam   |                                     |  |              |          |
|  | Sandbags                            |  |              | 50       |
|  | Staff                               |  |              | 5        |
|  | Boom                                | Sorbent Boom                                     |              | 40 feet  |
| .2 - Erect Filter Fence  |                                     |  |              |          |
|  | Misc.                               | Stake Driver                                     |              | 1        |
|  | Fence                               | Construction Fencing                             | 4 x 100 feet | 1 Rolls  |
|  | stakes                              | T-posts  | 6 feet       | 16       |
|  | Staff                               |  |              | 5        |
|  | Misc.                               | Oil Snare (pom-pom)                              |              | 40       |
| .3 - Shoreline Pre-Clean: Resource Specialist Supervision Required |                                     |  |              |          |
|  | Staff                               |  |              | 5        |
|  | Vehicle                             | ATV  |              | 1        |
|  | Misc.                               | Trash Bags                                       |              |          |
| 4-635  | Tecolote Creek                      |  |              |          |
| .1 - Exclude Oil   |                                     |  |              |          |
|  | Anchor                              |  |              | 8        |
|  | Staff                               |  |              | 5        |
|  | Boom                                | Sorbent Boom                                     |              | 400 feet |
|  | Boom                                | Swamp Boom                                       |              | 400 feet |
| .2 - Build Sandbag Dam   |                                     |  |              |          |
|  | stakes                              |  |              | 24       |
|  | Staff                               |  |              | 5        |
|  | Boom                                | Sorbent Boom                                     |              | 240 feet |
|  | Sandbags                            |  |              | 200      |
| .3 - Shoreline Pre-Clean: Resource Specialist Supervision Required |                                     |  |              |          |
|  | Staff                               |  |              | 5        |
|  | Misc.                               | Trash Bags                                       |              |          |
|  | Vehicle                             | ATV  |              | 1        |

| Site   | SiteName  | PREVENTION OBJECTIVE OR CONDITION FOR DEPLOYMENT |              |           |
|--|-----------|--|--------------|-----------|
| Sub-Strategy   | Equipment | Sub-Type   | Size/Unit    | QTY/Unit  |
| <b>4-640 Bell Canyon Creek</b>                                     |           |  |              |           |
| .1 - Exclude Oil   |           |  |              |           |
|  | Staff     |  |              | 5         |
|  | Boom      | Swamp Boom                                       |              | 400 feet  |
|  | Anchor    |  |              | 2         |
|  | Boom      | Sorbent Boom                                     |              | 400       |
| .2 - Erect Filter Fence  |           |  |              |           |
|  | Fence     | Construction Fencing                             | 4 x 100 feet | 4 Rolls   |
|  | Staff     |  |              | 5         |
|  | Misc.     | Stake Driver                                     |              | 1         |
|  | stakes    | T-posts  | 6 feet       | 40        |
|  | Misc.     | Oil Snare (pom-pom)                              |              | 720       |
| .3 - Shoreline Pre-Clean: Resource Specialist Supervision Required |           |  |              |           |
|  | Misc.     | Trash Bags                                       |              |           |
|  | Vehicle   | ATV  |              | 1         |
|  | Staff     |  |              | 5         |
| <b>4-645 Devereaux Slough</b>                                      |           |  |              |           |
| .1 - Exclude Oil   |           |  |              |           |
|  | boat      | Skiff  |              | 1         |
|  | Staff     |  |              | 5         |
|  | Anchor    |  |              | 6         |
|  | skimmer   |  |              | 1         |
|  | Boom      | Sorbent Boom                                     |              | 600 feet  |
|  | Boom      | Swamp Boom                                       |              | 600 feet  |
| <b>4-650 Goleta Point &amp; Campus Lagoon</b>                      |           |  |              |           |
| .1 - Shoreline Pre-Clean: Resource Specialist Supervision Required |           |  |              |           |
|  | Misc.     | Trash Bags                                       |              |           |
|  | Staff     |  |              | 5         |
|  | Vehicle   | ATV  |              | 1         |
| <b>4-655 Goleta Slough and Beach</b>                               |           |  |              |           |
| .1 - Exclude Oil   |           |  |              |           |
|  | Boom      | Sorbent Boom                                     |              | 2000 feet |
|  | Boom      | Swamp Boom                                       |              | 2000 feet |
|  | Anchor    |  |              | 6         |
|  | boat      | Skiff  |              | 1         |
|  | skimmer   |  |              | 1         |
|  | Vehicle   | ATV  |              | 1         |
|  | Staff     |  |              | 5         |
| .2 - Erect Filter Fence  |           |  |              |           |
|  | Staff     |  |              | 7         |
|  | Stakes    | T-posts  | 6 feet       | 200       |
|  | Misc.     | Oil Snare (pom-pom)                              |              | 4000      |
|  | Fence     | Construction Fencing                             | 4 x 100 feet | 20 Rolls  |
|  | Misc.     | Stake Driver                                     |              | 1         |
|  | Vehicle   | ATV  |              | 1         |
| .3 - Shoreline Pre-Clean: Resource Specialist Supervision Required |           |  |              |           |
|  | Vehicle   | ATV  |              | 1         |
|  | Misc.     | Trash Bags                                       |              |           |
|  | Staff     | ATV  |              | 5         |
| <b>4-657 More Mesa &amp; Goleta Rocks</b>                          |           |  |              |           |
| .1 - Shoreline Pre-Clean: Resource Specialist Supervision Required |           |  |              |           |
|  | Vehicle   | ATV  |              | 1         |
|  | Staff     |  |              | 5         |
|  | Misc.     | Trash Bags                                       |              |           |

| Site   | SiteName  | PREVENTION OBJECTIVE OR CONDITION FOR DEPLOYMENT |              |           |
|--|-----------|--|--------------|-----------|
| Sub-Strategy   | Equipment | Sub-Type   | Size/Unit    | QTY/Unit  |
| <b>4-660 Arroyo Burro Creek</b>                                    |           |  |              |           |
| .1 - Exclude Oil   |           |  |              |           |
|  | Boom      | Swamp Boom                                       |              | 300 feet  |
|  | Boom      | Sorbent Boom                                     |              | 300 feet  |
|  | Staff     |  |              | 5         |
|  | Anchor    |  |              | 6         |
| .2 - Erect Filter Fence  |           |  |              |           |
|  | stakes    | T-posts  | 6 feet       | 30        |
|  | Misc.     | Stake Driver                                     |              | 1         |
|  | Staff     |  |              | 5         |
|  | Misc.     | Oil Snare (pom-pom)                              |              | 480       |
|  | Fence     | Construction Fencing                             | 4 x 100 feet | 3 Rolls   |
| .3 - Shoreline Pre-Clean: Resource Specialist Supervision Required |           |  |              |           |
|  | Misc.     | Trash Bags                                       |              |           |
|  | Vehicle   | ATV  |              | 1         |
|  | Staff     |  |              | 5         |
| <b>4-662 Leadbetter Beach</b>                                      |           |  |              |           |
| .1 - Shoreline Pre-Clean: Resource Specialist Supervision Required |           |  |              |           |
|  | Staff     |  |              | 5         |
|  | Misc.     | Trash Bags                                       |              |           |
|  | Vehicle   | ATV  |              | 1         |
| <b>4-665 Santa Barbara Harbor</b>                                  |           |  |              |           |
| .1 - Exclude Oil   |           |  |              |           |
|  | Vessel    | Skiff or Punt                                    |              | 2         |
|  | Anchor    | Danforth   |              | 2         |
|  | Boom      | Harbor Boom                                      |              | 4000 feet |
|  | Vessel    | Boom Boat  |              | 2         |
|  | skimmer   |  |              | 1         |
|  | Boom      | Sorbent Boom                                     |              | 2500 feet |
|  | Staff     |  |              | 14        |
| .2 - Deploy Containment Boom                                       |           |  |              |           |
|  | Staff     |  |              | 3         |
|  | Boom      | Sorbent Boom                                     |              | 200 feet  |
|  | Boom      | Harbor Boom                                      |              | 200 feet  |
| .3 - Shoreline Pre-Clean: Resource Specialist Supervision Required |           |  |              |           |
|  | Staff     |  |              | 5         |
|  | Misc.     | Trash Bags                                       |              |           |
| <b>4-670 Mission Creek: Laguna Channel</b>                         |           |  |              |           |
| .1 - Exclude Oil   |           |  |              |           |
|  | Boom      | Sorbent Boom                                     |              | 1600 feet |
|  | Anchor    |  |              | 8         |
|  | Staff     |  |              | 8         |
|  | Boom      | Swamp Boom                                       |              | 1600 feet |
| .2 - Shoreline Pre-Clean: Resource Specialist Supervision Required |           |  |              |           |
|  | Vehicle   | ATV  |              | 1         |
|  | Staff     |  |              | 8         |
|  | Misc.     | Trash Bags                                       |              |           |
| <b>4-672 Sycamore Creek &amp; Andree Clark Bird Refuge</b>         |           |  |              |           |
| .1 - Exclude Oil   |           |  |              |           |
|  | Anchor    |  |              | 8         |
|  | Staff     |  |              | 8         |
|  | Boom      | Sorbent Boom                                     |              | 400 feet  |
|  | Boom      | Swamp Boom                                       |              | 400 feet  |
| .2 - Shoreline Pre-Clean: Resource Specialist Supervision Required |           |  |              |           |
|  | Vehicle   | ATV  |              | 1         |
|  | Staff     |  |              | 8         |
|  | Misc.     | Trash Bags                                       |              |           |

| Site   | SiteName   |                      |              |          |
|--|--|----------------------|--------------|----------|
| Sub-Strategy   | PREVENTION OBJECTIVE OR CONDITION FOR DEPLOYMENT |                      |              |          |
|  | Equipment  | Sub-Type             | Size/Unit    | QTY/Unit |
| <b>4-674 Fernald Point</b>   |  |                      |              |          |
| .1 - Build Sandbag Dam   |  |                      |              |          |
|  | stakes   |                      |              | 36       |
|  | Staff  |                      |              | 8        |
|  | Boom   | Sorbent Boom         |              | 360 feet |
|  | Sandbags   |                      |              | 360      |
| .2 - Erect Filter Fence  |  |                      |              |          |
|  | Fence  | Construction Fencing | 4 x 100 feet | 3 Rolls  |
|  | Staff  |                      |              | 8        |
|  | Misc.  | Oil Snare (pom-pom)  |              | 900      |
|  | Misc.  | Stake Driver         |              | 1        |
|  | stakes   | T-posts              | 6 feet       | 30       |
| .3 - Shoreline Pre-Clean: Resource Specialist Supervision Required |  |                      |              |          |
|  | Staff  |                      |              | 5        |
|  | Trash bags                                       |                      |              |          |
| <b>4-677 Loon Point &amp; Elyse Creek</b>                          |  |                      |              |          |
| .1 - Build Sandbag Dam   |  |                      |              |          |
|  | Staff  |                      |              | 5        |
|  | Sanbags  |                      |              | 50       |
|  | Stakes   |                      |              | 5        |
|  | Boom   | Sorbent Boom         |              | 40 feet  |
| .2 - Erect Filter Fence  |  |                      |              |          |
|  | stakes   | T-posts              | 6 feet       | 10       |
|  | Misc.  | Stake Driver         |              | 1        |
|  | Misc.  | Oil Snare (pom-pom)  |              | 300      |
|  | Staff  |                      |              | 5        |
|  | Fence  | Construction Fencing | 4 x 100 feet | 1 Rolls  |
| .3 - Shoreline Pre-Clean: Resource Specialist Supervision Required |  |                      |              |          |
|  | Staff  |                      |              | 5        |
|  | Misc.  | Trash Bags           |              |          |
| <b>4-680 Arroyo Paredon Creek and Sandyland</b>                    |  |                      |              |          |
| .1 - Exclude Oil   |  |                      |              |          |
|  | Boom   | Swamp Boom           |              | 200 feet |
|  | Anchor   | Danforth             |              | 8        |
|  | Staff  |                      |              | 5        |
|  | Boom   | Sorbent Boom         |              | 200 feet |
| .2 - Erect Filter Fence  |  |                      |              |          |
|  | Staff  |                      |              | 5        |
|  | Misc.  | Oil Snare (pom-pom)  |              | 600      |
|  | Stakes   | T-posts              | 6 feet       | 20       |
|  | Misc.  | Stake Driver         |              | 1        |
|  | Fence  | Construction Fencing | 4 x 100 feet | 2 Rolls  |
| .3 - Shoreline Pre-Clean: Resource Specialist Supervision Required |  |                      |              |          |
|  | Misc.  | Trash Bags           |              |          |
|  | Staff  |                      |              | 5        |
| <b>4-685 Carpinteria Marsh</b>                                     |  |                      |              |          |
| .1 - Exclude Oil   |  |                      |              |          |
|  | Boom   | Swamp Boom           |              | 400 feet |
|  | Staff  |                      |              | 8        |
|  | Vessel   | Skiff or Punt        |              | 1        |
|  | Boom   | Sorbent Boom         |              | 400 feet |
|  | Anchor   | Danforth             |              | 6        |
| .2 - Shoreline Pre-Clean: Resource Specialist Supervision Required |  |                      |              |          |
|  | Vehicle  | ATV                  |              | 1        |
|  | Misc.  | Trash Bags           |              |          |
|  | Staff  |                      |              | 8        |

| Site   | SiteName   |            |           |          |
|--|--|------------|-----------|----------|
| Sub-Strategy   | PREVENTION OBJECTIVE OR CONDITION FOR DEPLOYMENT |            |           |          |
|  | Equipment  | Sub-Type   | Size/Unit | QTY/Unit |
| 4-690  | Carpinteria Creek& State Beach                   |            |           |          |
| .1 - ExcludeOil  | Anchor   | Danforth   |           | 4        |
|  | Staff  |            |           | 5        |
|  | Boom   | Swamp Boom |           | 200 feet |
|  | Boom   | Sorbent    |           | 200 feet |
| .2 - Shoreline Pre-Clean: Resource Specialist Supervision Required | Misc.  | Trash Bags |           |          |
|  | Staff  |            |           | 5        |

## 9812.2 Geographic Response Strategies for Environmental Sensitive Sites



**Index Map – GRA 4, Santa Barbara County North Environmental Sensitive Sites**

## 9812.2.1 GRA 4 Site Index

| <b>Site #</b> | <b>Site Name</b>                              | <b>Page #</b>              |
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| 4-000-A       | Typical SLO/Santa Barbara/Ventura Sandy Beach | <a href="#"><u>283</u></a> |
| 4-505-A       | Point Sal                                     | <a href="#"><u>285</u></a> |
| 4-510-A       | Schuman Creek                                 | <a href="#"><u>288</u></a> |
| 4-515-A       | San Antonio Creek                             | <a href="#"><u>292</u></a> |
| 4-520-A       | Lion's Head to Purisima Point: North          | <a href="#"><u>296</u></a> |
| 4-525-A       | Purisima Point                                | <a href="#"><u>299</u></a> |
| 4-540-A       | Santa Ynez River                              | <a href="#"><u>302</u></a> |
| 4-550-A       | Ocean (Wall and Surf) Beach                   | <a href="#"><u>305</u></a> |
| 4-555-A       | La Honda Creek                                | <a href="#"><u>308</u></a> |
| 4-560-A       | Point Pedernales and Point Arguello           | <a href="#"><u>312</u></a> |
| 4-565-A       | Jalama Creek                                  | <a href="#"><u>315</u></a> |
| 4-567-A       | Point Conception and Government Point         | <a href="#"><u>319</u></a> |

**County:** Santa Barbara **ACP Division/Segment:****NOAA Chart :****Map Book :****Decimal Degrees :****Site Description:****Resources at Risk:***ESI and Habitat:* 3A Fine- to medium-grained sand beaches**List of Resources at Risk:**

|       | <b>Resource Name</b>  | <b>Status</b> | <b>Presence</b> |
|-------|-----------------------|---------------|-----------------|
| Birds | Western snowy plover  | FT            | Year-round      |
| Birds | California least tern | FE, SE        | Apr-Sep         |

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

| <b>TypeName/Title</b> | <b>Organization</b>                               | <b>Phone</b>   |
|-----------------------|---|----------------|
| C /                   | Central Coast Archeological Information Center    | (805) 893-2474 |
| C /                   | Native American Heritage Commission               | (916) 373-3710 |
| C /                   | South Central Coastal Information Center          | (657) 278-5395 |
| T /                   | US Fish and Wildlife Service, Federal T&E Species | (805) 644-1766 |

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

WESTERN SNOWY PLOVERS NEST FROM MAR-SEP AND CALIFORNIA LEAST TERNS NEST FROM APR-SEP. Western snowy plovers are small, white and tan colored shorebirds. California least terns are small, gray, white and black colored diving birds. Western snowy plovers conceal their nests in the upper rack line above the high tide line while California least terns generally nest on open beaches and/or along estuary shorelines. Nests are usually constructed on loose sand, and are easily stepped on due to their very cryptic nature. Chicks are known to run between nests and the waterline. Western snowy plover adults forage while wading along the shoreline. California least tern adults dive into the water to forage in shallow, nearshore areas of the open coast, embayments, estuaries, and dune lakes.

**Concerns and Advice to Responders:****Hazard and Restrictions:****Site Strategies:**

**Strategy: 4-000.1 Objective:** Shoreline Pre-Clean: Resource Specialist Supervision Required

*Strategy:* After approval only, pre-clean beach with hand crews to move and store kelp, driftwood, and vegetative debris above high-tide line. Collect and properly dispose of trash. Redistribute wrack after response efforts are completed. The areas to be protected should be monitored by an assigned biological monitor. Heavy equipment and 4WD vehicles may be used pending approval.

Table of Response Resources

| Equipment | Sub-Type                    | Size | Unit | QTY | Unit | Last Page Update |
|-----------|-----------------------------|------|------|-----|------|------------------|
| Staff     | Natural Resource Specialist |      |      |     |      |                  |

**Strategy: 4-000.2 Objective:** Other: See Strategy Box

*Strategy:* In consultation with USFWS and CDFW, western snowy plover or California least tern eggs may be removed from nests by authorized and qualified personnel and taken to an approved facility to reduce injury.

Table of Response Resources

| Equipment | Sub-Type                    | Size | Unit | QTY | Unit | Last Page Update |
|-----------|-----------------------------|------|------|-----|------|------------------|
| Staff     | Natural Resource Specialist |      |      |     |      |                  |

**Logistics:**

*Additional Operational Comments:* Beaches may be pre-cleaned if given prior authorization. Some beaches have designated fenced areas for nesting. Individual Environmentally Sensitive Sites may have additional western snowy plover and California least tern information.

**4-505-A Site Summary - Point Sal****4-505-A****County :** Santa Barbara **ACP Division/Segment :** SB - A - S01 SB - A - S02**NOAA Chart :** 18700 **Map Book :** 345 B-C x 9-10 **Decimal Degrees :** 34.902026 -120.671611**Site Description:**

Special Permission is required for access through Vandenberg Air Force Base. This site includes Point Sal east to Point Sal State Beach. Point Sal State Beach is a fine to medium-grained sand beach bounded at the north & south by rocky cliffs. This site also includes exposed rocky cliffs and wave-cut platforms with rock pinnacles offshore. Lion rock is the largest rock pinnacle. This is a high energy environment with west and south exposure. Abundant marine mammals are present including harbor seals, California sea lions, northern fur seals, northern elephant seals and stellar sea lions. Various fish are present including rockfish and surfperch. Extensive rocky intertidal resources are found offshore. Seabirds and shorebirds are at this site. Grunion spawning occurs in the spring and summer during high tides.

**Resources at Risk:***ESI and Habitat:* 3A Fine- to medium-grained sand beaches

2A Exposed wave-cut platforms in bedrock, mud, or clay

1A Exposed Rocky Shore

**List of Resources at Risk:**

|               | <b>Resource Name</b>                    | <b>Status</b> | <b>Presence</b> |
|---------------|---|---------------|-----------------|
| Birds         | seabirds                                |               | Year-round      |
| Fish          | grunion                                 |               | Mar-Aug         |
| Invertebrates | black abalone                           | FE            | Year-round      |
| Invertebrates | rocky intertidal resources              |               | Year-round      |
| Mammals       | Southern sea otter                      | FT, SP        | Year-round      |
| Mammals       | marine mammals                          |               | Year-round      |
| Reptiles      | leatherback sea turtle critical habitat |               | Year-round      |

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

| <b>Type</b> | <b>Name/Title</b>                         | <b>Organization</b>                               | <b>Phone</b>   |
|-------------|---|---|----------------|
| C           | /   | Central Coast Archeological Information Center    | (805) 893-2474 |
| C           | /   | Native American Heritage Commission               | (916) 373-3710 |
| E           | /Law Enforcement Desk (24hr)              | Vandenberg Air Force Base                         | (805) 606-3911 |
| E           | Wayne Moses/Chief Conservation Officer    | Vandenberg Air Force Base                         | (805) 606-6804 |
| T           | SURCOM (24-hr)/                           | California State Parks (Dispatch)                 | (951) 443-2969 |
| T           | Justin Viezbicke/Marine Mammal Stranding  | NOAA National Marine Fisheries Service            | (562) 506-4315 |
| T           | Melissa Neuman/Marine Biologist           | NOAA National Marine Fisheries Service            | (562) 481-4594 |
| T           | Tina Fahy/Sea Turtle Recovery Coordinator | NOAA National Marine Fisheries Service            | (562) 980-4023 |
| T           | /   | US Fish and Wildlife Service, Federal T&E Species | (805) 644-1766 |

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

**Concerns and Advice to Responders:**

Inshore waters and shorelines contain sensitive habitat for invertebrates, birds, sea otters, and other marine mammals which can be injured or killed by oil. Because there are no practicable onshore response strategies for protecting these resources and the shorelines are virtually inaccessible except by foot traffic, landing craft or helicopter, it is best to collect and/or disperse oil offshore, before it reaches inshore areas or the shoreline.

**Hazard and Restrictions:**

Special Permission required for access via Vandenberg Air Force Base (see Land Access for more info). Safety Considerations- Roads, trails, beach cliffs and hillsides may be unstable in wet weather. Beware of flashfloods in canyons during rainy weather, ticks, poison oak, and rattlesnakes. Beware of trains at unregulated Railroad Crossings. Care must be taken when working on beaches backed by high cliffs. Safe entries to, and exits from beaches in this area are affected by tides and beach sand levels- YOU MAY GET STRANDED ON THE BEACH - Plan accordingly.

**Site Strategies:**

**Strategy: 4-505.1 Objective:** No Onsite Options: Consider Offshore Containment/Recovery/ART

**Strategy:** There are no feasible onshore protection strategies for this area. Attempt to collect and/or disperse oil in offshore locations before it reaches the shoreline.

Table of Response Resources

**Last Page Update**

**Logistics:**

**Directions:** From Highway I (west of Santa Maria) take Brown Road west to Point Sal Road. Point Sal Road may be impassable to vehicular access.

**Land Access:** Access to beaches and land sites must be authorized through the Air Force Base. Responders must call the Law Enforcement Desk @ 805-606-3911 and the Vandenberg AFB Conservation Office @ 805-606-6804. An escort may be required in some locations.

**On-Water Limitations:** Port San Luis Harbor (805) 595-5400 is the nearest full service civilian harbor. Facilities for small vessel loading occur at the "Boat House" in the vicinity of Rocky Pt. just south of Pt. Arguello. These facilities could be utilized with permission from VAFB.

**Facilities, Staging Areas, Command Posts, Available Equipment:**

**Communications Problems:**



**4-510-A Site Summary - Schuman Creek****4-510-A****County :** Santa Barbara **ACP Division/Segment :** SB - B - S01**NOAA Chart :** 18700**Map Book :** 345 B x 10**Decimal Degrees :** 34.84556 -120.60813**Site Description:**

Special Permission required for access through Vandenberg Air Force Base (see Land Access for more info). The site extends 100 yards SE and NW from the centerline of the creek. Shuman Creek has a relatively narrow channel through the coastal dunes, which widens slightly near the beach. The mouth ranges in width from 6ft to 20ft with a depth of 3 inches to 4 feet. There is a small wetland a short distance inland. North and south of the creek mouth are extensive fine-grained sand beaches, and coastal sand dunes. There are often high winds and high-energy surf conditions. Grunion spawning occurs in the spring and summer during high tides. Abundant seabirds (including brown pelicans) and shorebirds are present. Pismo clams are found at this site. Wetland habitat and wildlife are at risk when the creek mouth is open to the ocean during rain events and/or high surf and tides.

**Resources at Risk:***ESI and Habitat:* 10A Salt - and brackish-water marshes

9B Vegetated low banks

3A Fine- to medium-grained sand beaches

**List of Resources at Risk:**

|            | <b>Resource Name</b>            | <b>Status</b> | <b>Presence</b> |
|------------|---------------------------------|---------------|-----------------|
| Amphibians | California red-legged frog      | FT            | Year-round      |
| Birds      | Western snowy plover            | FT            | Year-round      |
| Birds      | California least tern           | FE, SE        | Apr-Sep         |
| Fish       | tidewater goby                  | FE            | Year-round      |
| Fish       | steelhead - Southern California | FE            | Year-round      |
| Mammals    | Southern sea otter              | FT, SP        | Year-round      |

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

| <b>Type</b> | <b>Name/Title</b>                      | <b>Organization</b>                               | <b>Phone</b>   |
|-------------|--|---|----------------|
| C           | /                                      | Central Coast Archeological Information Center    | (805) 893-2474 |
| C           | /                                      | Native American Heritage Commission               | (916) 373-3710 |
| E           | /Law Enforcement Desk (24hr)           | Vandenberg Air Force Base                         | (805) 606-3911 |
| E           | Wayne Moses/Chief Conservation Officer | Vandenberg Air Force Base                         | (805) 606-6804 |
| T           | Mary Larson/Steelhead                  | California Department of Fish & Wildlife          | (562) 537-8624 |
| T           | Rick Bush/Fisheries Biologist          | NOAA National Marine Fisheries Service            | (562) 980-3562 |
| T           | /                                      | US Fish and Wildlife Service, Federal T&E Species | (805) 644-1766 |

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

Western snowy plovers nest from Mar-Sep and California least terns nest from Apr-Sep.

**Concerns and Advice to Responders:**

The lagoon is habitat for two T/E fish. Two T/E birds nest in the dunes and upper beaches south of the river from Mar-Sep. Animals and their associated habitat can be injured by oil and response activities unless responders minimize disturbance in the lagoon. Avoid disturbing the dunes and upper beaches, only drive vehicles on the wet sand and avoid trampling oil into sediments. Follow protective conditions from IC and resource biologists.

**Hazard and Restrictions:**

Special Permission required for access through Vandenberg Air Force Base (see Land Access for more info). Water Contamination - Unhealthy levels of coliform bacteria have been found intermittently in streams and on beaches in the Santa Barbara County area. Use appropriate PPE, safety procedures, and include reference to potential health problems in any site safety plan.

**Site Strategies:****Strategy: 4-510.1 Objective:** Exclude Oil

*Strategy:* Deploy exclusion booms across the inlet to minimize the likelihood of oiling the estuary. Place the booms in a configuration that forms an adjustable oil collection pocket that can accommodate changes in flow direction. Back exclusion booms with sorbent booms to minimize leakage. Line the shorelines and any side channels within the inlet to prevent collateral oiling. If there is recoverable oil on-water, deploy sorbents and contact the IC immediately regarding the use of skimmers. Monitor, adjust, and replace booms as needed to maintain effectiveness.

Table of Response Resources

| Equipment | Sub-Type     | Size | Unit | QTY | Unit | Last Page Update   |
|-----------|--------------|------|------|-----|------|--|
| Boom      | Swamp Boom   |      |      | 100 | feet | <i>Strategy Updated:</i><br><i>Last Test:</i> 10/13/2015 |
| Boom      | Sorbent Boom |      |      | 80  | feet |  |
| Vehicle   | ATV          |      |      | 1   |      |  |
| Staff     | Staff        |      |      | 5   |      |  |
| Anchor    |              |      |      | 5   |      |  |

**Strategy: 4-510.2 Objective:** Erect Filter Fence

*Strategy:* Construct a filter fence across the front of the channel where the inlet is narrowest, water flows are low or dry, the ground can receive and hold metal stakes, and the spill is heavy oil. Monitor barrier and replace pom-poms as necessary to maintain effectiveness.

Table of Response Resources

| Equipment | Sub-Type             | Size         | Unit   | QTY | Unit  | Last Page Update   |
|-----------|----------------------|--------------|--------|-----|-------|--|
| Fence     | Construction Fencing | 4 x 100 feet |        | 2   | Rolls | <i>Strategy Updated:</i><br><i>Last Test:</i> 10/13/2015 |
| Misc.     | Oil Snare (pom-pom)  |              |        | 80  |       |  |
| Stakes    | T-posts              |              | 6 feet | 20  |       |  |
| Misc.     | Stake Driver         |              |        | 1   |       |  |
| Vehicle   | ATV                  |              |        | 1   |       |  |
| Staff     |                      |              |        | 4   |       |  |

**Logistics:**

*Directions:* Vehicular access, including heavy equipment is possible, from the parking lot at Minuteman Point, approx. one mile north of creek mouth, by driving along Minuteman Beach. The ATV tires will need to be deflated down to 6 psi.

*Land Access:* This site is located on Vandenberg Airforce Base. Access to beaches and land sites must be authorized through the Air Force Base. For access authorization to air base roadways, lands and shorelines responders must call the Law Enforcement Desk at 805-606-3911 and the Vandenberg AFB Conservation Office at 805-606-6804. An escort may be required in some locations.

*On-Water Limitations:* Avila Harbor is the nearest full service civilian harbor. Facilities for small vessel loading occur at the Boat House near Rocky Point just south of Point Arguello. These facilities could be utilized with permission from VAFB. However because this area is a high-energy coastline and is rocky, water access may not be feasible.

**4-510-A Site Strategy - Schuman Creek**

**4-510-A**

*Facilities, Staging Areas, Command Posts, Available Equipment:* Minute Man Parking lot can serve as staging area. Call 805-606-3911 (law enforcement desk) for VAFB access information.

*Communications Problems:* Limited cell phone coverage. Hand held radios advised.

*Additional Operational Comments:* California Department of Fish and Wildlife and VAFB must be consulted before the staging of motorized equipment and heavy traffic are permitted. Due to the probable occurrence of western snowy plovers and/or California least terns at this site, please review the Sandy Beach Site Summary and Strategies (Site 4-000-A) for information on response operations when dealing with these sensitive species.



**4-515-A Site Summary - San Antonio Creek****4-515-A****County :** Santa Barbara **ACP Division/Segment :** SB - B - S03**NOAA Chart :** 18700**Map Book :** 365 C x 1**Decimal Degrees :** 34.8 -120.62**Site Description:**

Special Permission required for access through Vandenberg Air Force Base (see Land Access for more info). This site includes 100 yards SE and NW from the centerline of the creek upstream to the limits of tidal influence, which include San Antonio creek mouth and lagoon. During the winter, the lagoon is usually open, but for most of the year, the lagoon is blocked by a sand barrier. Tidal influences are variable depending on the season. Size and shape of the lagoon varies from year to year. North and south of the creek mouth are extensive fine to medium-grained sand beaches. Abundant seabirds (including brown pelicans) and shorebirds are present. Grunion spawning occurs in the spring and summer during high tides. Pismo clams occur at this site. Wetland habitat and wildlife are at risk when the creek mouth is open to the ocean during rain events and high surf. Fragile sand dunes surround the creek.

**Resources at Risk:***ESI and Habitat:* 10A Salt - and brackish-water marshes

9B Vegetated low banks

3A Fine- to medium-grained sand beaches

**List of Resources at Risk:**

|            | <b>Resource Name</b>              | <b>Status</b> | <b>Presence</b> |
|------------|-----------------------------------|---------------|-----------------|
| Amphibians | California red-legged frog        | FT            | Year-round      |
| Birds      | California least tern             | FE, SE        | Apr-Sep         |
| Birds      | Western snowy plover              | FT            | Year-round      |
| Fish       | tidewater goby                    | FE            | Year-round      |
| Fish       | steelhead - Southern California   | FE            | Year-round      |
| Fish       | unarmored threespined stickleback | FE, SE        | Year-round      |
| Mammals    | Southern sea otter                | FT, SP        | Year-round      |
| Reptiles   | southwestern pond turtle          | SSC           | Year-round      |

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

| <b>Type</b> | <b>Name/Title</b>                      | <b>Organization</b>                               | <b>Phone</b>   |
|-------------|--|---|----------------|
| C           | /                                      | Central Coast Archeological Information Center    | (805) 893-2474 |
| C           | /                                      | Native American Heritage Commission               | (916) 373-3710 |
| E           | /Law Enforcement Desk (24hr)           | Vandenberg Air Force Base                         | (805) 606-3911 |
| E           | Wayne Moses/Chief Conservation Officer | Vandenberg Air Force Base                         | (805) 606-6804 |
| T           | Mary Larson/Steelhead                  | California Department of Fish & Wildlife          | (562) 537-8624 |
| T           | Rick Bush/Fisheries Biologist          | NOAA National Marine Fisheries Service            | (562) 980-3562 |
| T           | /                                      | US Fish and Wildlife Service, Federal T&E Species | (805) 644-1766 |

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

Western snowy plovers nest from Mar-Sep and California least terns nest from Apr-Sep.

**Concerns and Advice to Responders:**

The lagoon is habitat for three threatened/endangered (T/E) fish. Two T/E birds nest in the dunes and upper beaches south of the river from Mar-Sep. Animals and their associated habitat can be injured by oil and response activities unless responders minimize disturbance in the lagoon. Avoid disturbing the dunes and upper beaches, only drive vehicles on the wet sand and avoid trampling oil into sediments. Follow protective conditions from IC and resource biologists.

**Hazard and Restrictions:**

Special Permission required for access through Vandenberg Air Force Base (see Land Access for more info). Unhealthy levels of coliform bacteria have been found intermittently in streams and on beaches in this area. Use appropriate PPE, safety procedures, and include reference to potential health problems in any site safety plan.

**Site Strategies:****Strategy: 4-515.1 Objective:** Exclude Oil

*Strategy:* Deploy exclusion booms across the inlet to minimize the likelihood of oiling the estuary. Place the booms in a configuration that forms an adjustable oil collection pocket that can accommodate changes in flow direction. Back exclusion booms with sorbent booms to minimize leakage. Line the shorelines and any side channels within the inlet to prevent collateral oiling. If there is recoverable oil on-water, deploy sorbents and contact the IC immediately regarding the use of skimmers. Monitor, adjust, and replace booms as needed to maintain effectiveness.

Table of Response Resources

| Equipment | Sub-Type     | Size      | Unit | QTY | Unit | Last Page Update   |
|-----------|--------------|-----------|------|-----|------|--|
| Boom      | Swamp Boom   | 1500 feet |      |     |      | <i>Strategy Updated:</i><br><i>Last Test:</i> 10/13/2015 |
| Boom      | Sorbent Boom | 1500 feet |      |     |      |  |
| Vehicle   | ATV          |           | 1    |     |      |  |
| Staff     | Staff        |           | 5    |     |      |  |
| Anchor    |              |           | 8    |     |      |  |

**Strategy: 4-515.2 Objective:** Erect Filter Fence

*Strategy:* Construct a filter fence across the front of the channel where the inlet is narrowest, water flows are low or dry, the ground can receive and hold metal stakes, and the spill is heavy oil. Monitor barrier and replace pom-poms as necessary to maintain effectiveness.

Table of Response Resources

| Equipment | Sub-Type             | Size         | Unit   | QTY | Unit  | Last Page Update   |
|-----------|----------------------|--------------|--------|-----|-------|--|
| Fence     | Construction Fencing | 4 x 100 feet |        | 15  | Rolls | <i>Strategy Updated:</i><br><i>Last Test:</i> 10/13/2015 |
| Misc.     | Oil Snare (pom-pom)  |              |        | 750 |       |  |
| stakes    | T-posts              |              | 6 feet | 30  |       |  |
| Misc.     | Stake Driver         |              |        | 1   |       |  |
| Vehicle   | ATV                  |              |        | 1   |       |  |
| Staff     |                      |              |        | 5   |       |  |

**Strategy: 4-515.3 Objective:** Build Sandbag Dam

*Strategy:* Build a sandbag exclusion/containment dam using onsite materials or imported materials as directed by CDFW biologist. Use clean low silt content sand. If using onsite materials obtain only from un-vegetated areas and have a cultural specialist onsite to monitor. Install underflow pipes and/or a spillway to regulate water flows as conditions dictate. Closely regulate water levels to reduce collateral oiling. If there is recoverable oil on-water, deploy sorbents and contact the IC immediately regarding the use of skimmers.

## Table of Response Resources

| Equipment | Sub-Type     | Size | Unit | QTY  | Unit | Last Page Update |
|-----------|--------------|------|------|------|------|------------------|
| Boom      | Sorbent Boom |      |      | 1500 | feet |                  |
| Anchor    |              |      |      | 8    |      |                  |
| Staff     |              |      |      | 5    |      |                  |
| Vehicle   | ATV          |      |      | 1    |      |                  |
| Sandbags  |              |      |      | 300  |      |                  |

**Logistics:**

*Directions:* Access to the creek mouth is difficult and requires a one-mile hike through the dunes and along the beach beginning at a small parking area at the end of a dirt road. Use of ATVs and 4WD vehicles may be possible, with access from Minuteman Beach Parking lot. Consult with VAFB resource biologist. It is about a four-mile drive from Minuteman Beach. The ATV tires need to be deflated to 6 psi.

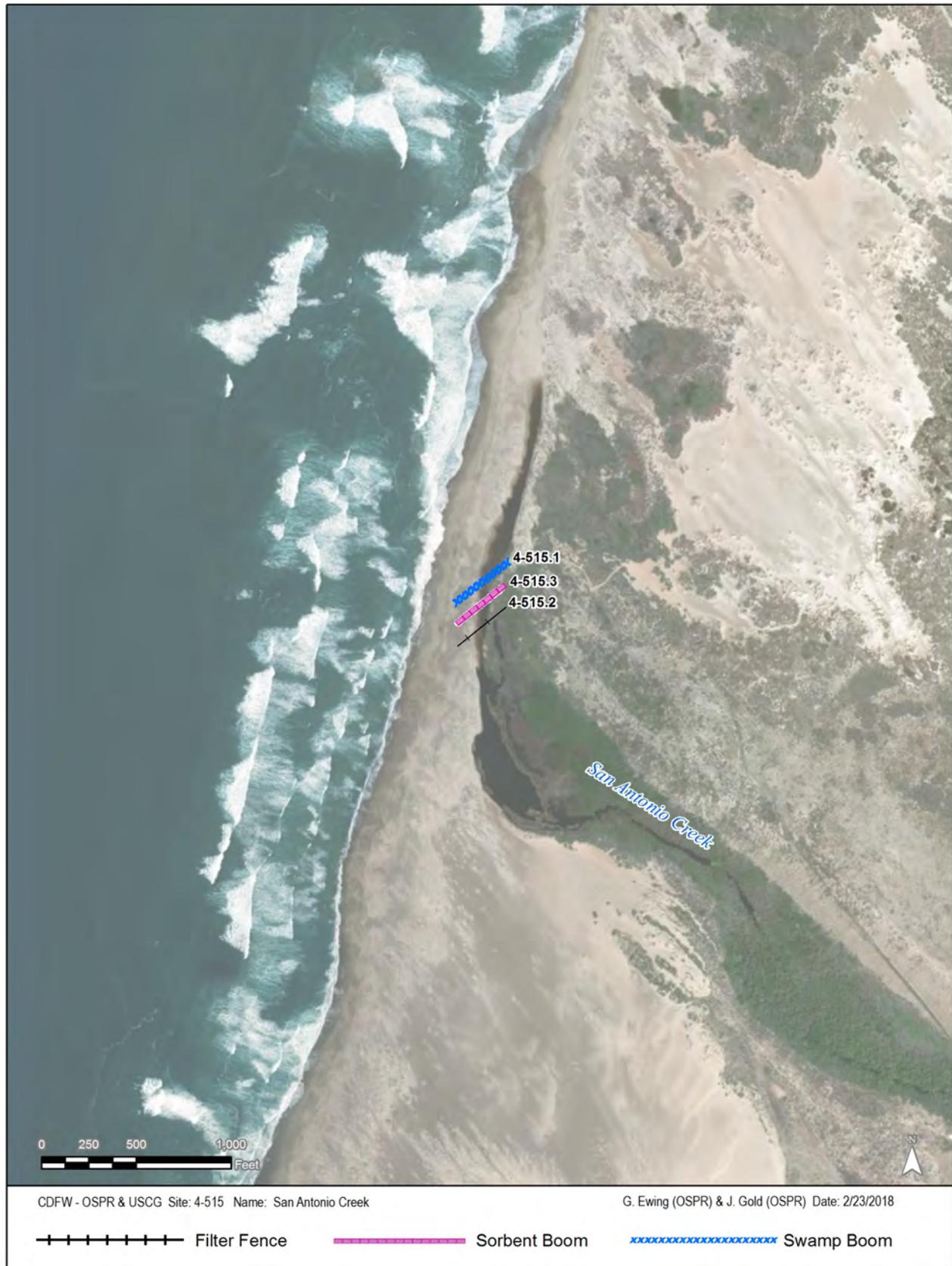
*Land Access:* This site is located on Vandenberg Air Force Base. Access to the beaches and land sites must be authorized through the Air Force Base. Responders must call the Law Enforcement Desk @ 805-606-3911 and the Vandenberg AFB Conservation Office @ 805-606-6804 for access authorization to roadways, lands and shorelines. An escort may be required in some locations.

*On-Water Limitations:* Avila Harbor is the nearest full service civilian harbor. Facilities for small vessel loading can occur at the Boat House near Rocky Point just south of Point Arguello. These facilities can be utilized with permission from VAFB. Area is rocky.

*Facilities, Staging Areas, Command Posts, Available Equipment:* This is a remote site with no local facilities for staging. Nearest staging area for personnel, equipment, and supplies is located at the Minuteman Parking lot at the extreme north end of the beach.

*Communications Problems:* Cell phone communications are limited.

*Additional Operational Comments:* Monitor the mouth of San Antonio Creek. Wave wash over may carry oil over natural berm into the lagoon during extreme conditions. Wind drifted sand may bury beached oil. Due to the probable occurrence of western snowy plovers and/or California least terns at this site, please review the Sandy Beach Site Summary and Strategies (Site 4-000-A) for information on response operations when dealing with these sensitive species.



**4-520-A Site Summary - Lion's Head to Purisima Point: North****4-520-A****County :** Santa Barbara **ACP Division/Segment :** SB - B - S01 SB - B - S02 SB - B - S03 SB - C - S01**NOAA Chart :** 18700**Map Book :** 345 C x 10-11**Decimal Degrees :**34.8101 -120.6183**Site Description:**

Special Permission required for access through Vandenberg Air Force Base (see Land Access for more info). Area 1 mile SE of Lion's Head, south to the southend of Minuteman Beach (beginning of rocks 1+ mile north of Purisima Pt.) Aprox. 6 miles of gravel beach backed by rocky cliffs. Includes areas of fine to medium grained sand beaches. Grunion spawning occurs in the spring and summer (March-August) during high tides. Rocky intertidal resources occur offshore including pink, red and black abalone, rock scallop, pismo clam and California mussel. Harbor seals haulout 1/3 mile south of Lion's head. Abundant seabirds (including brown pelicans) and shorebirds are present. Surfperch are found offshore. March through September for western snowy plover nesting along the beach.

**Resources at Risk:***ESI and Habitat:*3A Fine- to medium-grained sand beaches**List of Resources at Risk:**

|               | <b>Resource Name</b>                    | <b>Status</b> | <b>Presence</b> |
|---------------|---|---------------|-----------------|
| Birds         | Western snowy plover                    | FT            | Year-round      |
| Birds         | California least tern                   | FE, SE        | Apr-Sep         |
| Fish          | grunion                                 |               | Mar-Aug         |
| Invertebrates | black abalone                           | FE            | Year-round      |
| Invertebrates | Pismo clams                             |               | Year-round      |
| Mammals       | Southern sea otter                      | FT, SP        | Year-round      |
| Mammals       | harbor seal                             | FP            | Year-round      |
| Reptiles      | leatherback sea turtle critical habitat |               | Year-round      |

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

| <b>Type</b> | <b>Name/Title</b>                         | <b>Organization</b>                               | <b>Phone</b>   |
|-------------|---|---|----------------|
| C           | /   | Central Coast Archeological Information Center    | (805) 893-2474 |
| C           | /   | Native American Heritage Commission               | (916) 373-3710 |
| E           | /Law Enforcement Desk (24hr)              | Vandenberg Air Force Base                         | (805) 606-3911 |
| E           | Wayne Moses/Chief Conservation Officer    | Vandenberg Air Force Base                         | (805) 606-6804 |
| T           | Justin Viezbicke/Marine Mammal Stranding  | NOAA National Marine Fisheries Service            | (562) 506-4315 |
| T           | Melissa Neuman/Marine Biologist           | NOAA National Marine Fisheries Service            | (562) 481-4594 |
| T           | Tina Fahy/Sea Turtle Recovery Coordinator | NOAA National Marine Fisheries Service            | (562) 980-4023 |
| T           | /   | US Fish and Wildlife Service, Federal T&E Species | (805) 644-1766 |

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

**Concerns and Advice to Responders:**

The best response options for protecting this shoreline are to collect and/or disperse oil in offshore areas before it reaches inshore areas. The dunes and upper beaches provide critical nesting habitat for Threatened/Endangered birds. These animals can be killed and habitat can be damaged by oil and by response and cleanup activities unless responders avoid disturbing the dunes and upper beaches; drive vehicles on wet sand, and follow protective conditions from IC and resource biologists.

**Hazard and Restrictions:**

Special Permission required for access through Vandenberg Air Force Base (see Land Access for more info). Unhealthy levels of coliform bacteria have been found intermittently in streams and on beaches in this area. Use appropriate PPE, safety procedures, and include reference to potential health problems in any site safety plan.

**Site Strategies:**

**Strategy: 4-520.1 Objective:** No Onsite Options: Consider Offshore Containment/Recovery/ART

*Strategy:* There are no feasible onshore protection strategies for this area. Attempt to collect and/or disperse oil in offshore locations before it reaches the shoreline.

Table of Response Resources

**Last Page Update**

**Logistics:****Directions:**

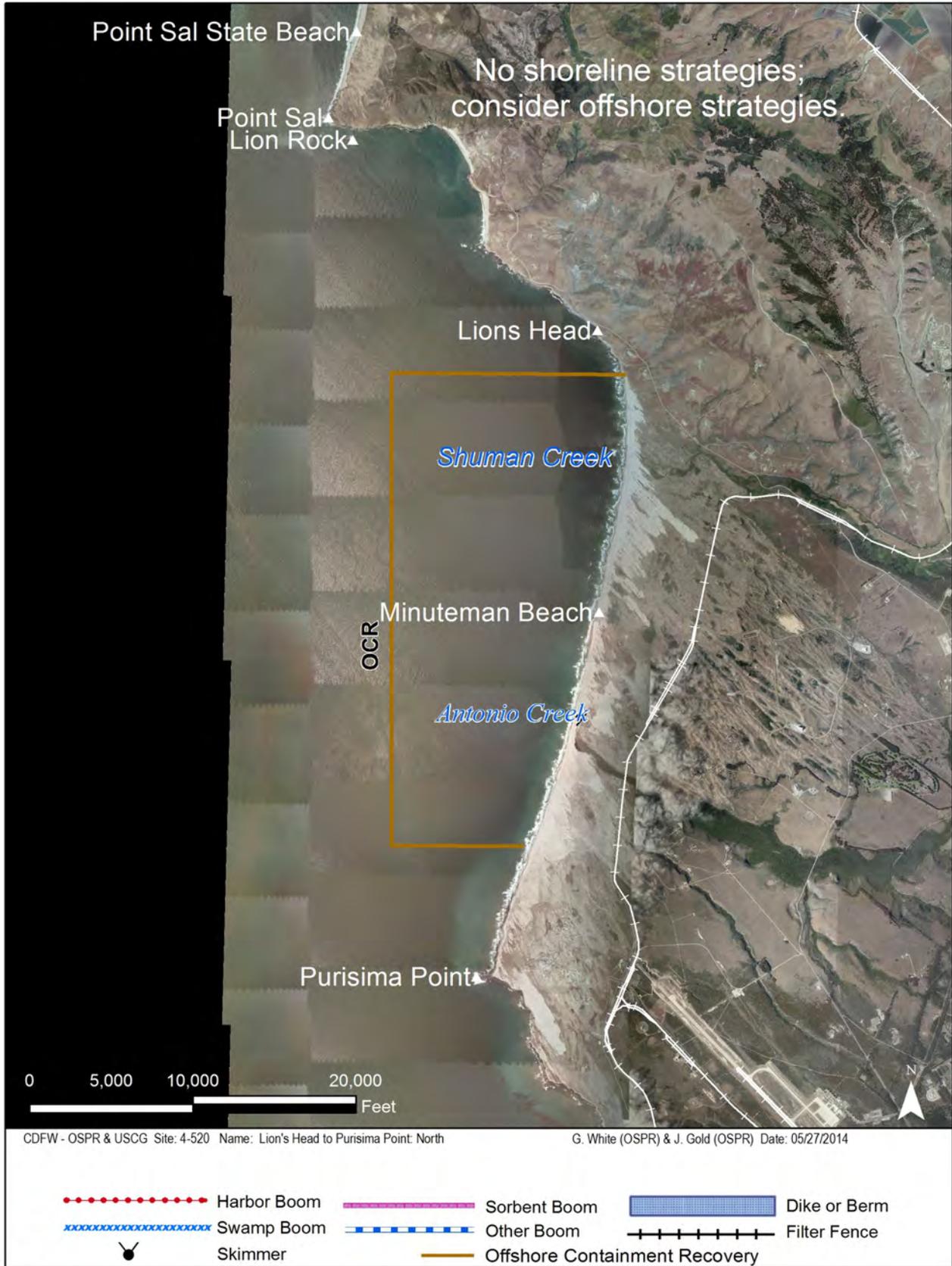
*Land Access:* This site is located on Vandenberg Airforce Base. Access to beaches and land sites must be authorized through the Air Force Base. For access authorization to air base roadways, lands and shorelines responders must call the Law Enforcement desk at 805-606-3911 and the Conservation Office at 805-606-6804. An escort may be required in some locations.

*On-Water Limitations:* Area is rocky. Avila Harbor is the nearest full service civilian harbor. Facilities for small vessel loading occur at the "Boat House" in the vicinity of Rocky Point just south of Point Arguello. These facilities could be utilized with permission from VAFB.

*Facilities, Staging Areas, Command Posts, Available Equipment:* This area is isolated. Access to the beach is limited by cliffs and sensitive dune habitat. Beaches are interrupted by cobbles and bedrock outcroppings.

*Communications Problems:* Cell phone communications are limited.

*Additional Operational Comments:* Due to the probable occurrence of western snowy plovers and/or California least terns at this site, please review the Sandy Beach Site Summary and Strategies (Site 4-000-A) for information on response operations when dealing with these sensitive species.



Imagery: NAIP 2010 (Summer) 4-Band

**4-525-A Site Summary - Purisima Point****4-525-A****County :** Santa Barbara **ACP Division/Segment :** SB - C - S01 SB - C - S02**NOAA Chart :** 18700**Map Book :** 365 C x 1-2**Decimal Degrees :**34.7562 -120.6366**Site Description:**

Special Permission required for access through Vandenberg Air Force Base (see Land Access for more info). Aprx 0.5 mi NE of Purisima Point to aprx 1.5 mi SE of Purisima Point. Purisima Point area consists of exposed wave-cut rock platforms with gravel (cobble/boulder) and sand-gravel beaches backed by extensive sand dunes and rocky cliffs. Rough sea conditions offshore. Abundant seabirds (including brown pelicans) and shorebirds are present. Harbor seal pupping and breeding occurs at the point (Dec-May). A small group of sea otters reside south of the point. Extensive rocky intertidal habitat offshore.

**Resources at Risk:***ESI and Habitat:*6A Gravel Beach

5 Mixed sand and gravel beaches

3A Fine- to medium-grained sand beaches

2A Exposed wave-cut platforms in bedrock, mud, or clay

1A Exposed Rocky Shore

**List of Resources at Risk:**

|               | <b>Resource Name</b>                    | <b>Status</b> | <b>Presence</b> |
|---------------|---|---------------|-----------------|
| Birds         | California least tern                   | FE, SE        | Apr-Sep         |
| Birds         | Western snowy plover                    | FT            | Year-round      |
| Invertebrates | black abalone                           | FE            | Year-round      |
| Mammals       | Southern sea otter                      | FT, SP        | Year-round      |
| Reptiles      | leatherback sea turtle critical habitat |               | Year-round      |

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

| <b>Type</b> | <b>Name/Title</b>                         | <b>Organization</b>                               | <b>Phone</b>   |
|-------------|---|---|----------------|
| C           | /   | Central Coast Archeological Information Center    | (805) 893-2474 |
| C           | /   | Native American Heritage Commission               | (916) 373-3710 |
| E           | /Law Enforcement Desk (24hr)              | Vandenberg Air Force Base                         | (805) 606-3911 |
| E           | Wayne Moses/Chief Conservation Officer    | Vandenberg Air Force Base                         | (805) 606-6804 |
| T           | Justin Viezbicke/Marine Mammal Stranding  | NOAA National Marine Fisheries Service            | (562) 506-4315 |
| T           | Melissa Neuman/Marine Biologist           | NOAA National Marine Fisheries Service            | (562) 481-4594 |
| T           | Tina Fahy/Sea Turtle Recovery Coordinator | NOAA National Marine Fisheries Service            | (562) 980-4023 |
| T           | /   | US Fish and Wildlife Service, Federal T&E Species | (805) 644-1766 |

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

Western snowy plovers nest from Mar-Sep and California least terns nest from Apr-Sep.

**Concerns and Advice to Responders:**

Inshore waters and shorelines contain sensitive habitat for invertebrates, birds, sea otters, and other marine mammals which can be injured or killed by oil. Because there are no practicable onshore response strategies for protecting these resources and the shorelines are virtually inaccessible except by foot traffic, landing craft or helicopter, it is best to collect and/or disperse oil offshore, before it reaches inshore areas or the shoreline.

**Hazard and Restrictions:**

Special Permission required for access through Vandenberg Air Force Base (see Land Access for more info).

A. Unhealthy levels of coliform bacteria have been found intermittently in streams and on beaches in this area. Use appropriate PPE, safety procedures, and include reference to potential health problems in any site safety plan.

B. Safety Considerations- Roads, trails, beach cliffs and hillsides may be unstable in wet weather. Beware of flashfloods in canyons during rainy weather, ticks, poison oak, and rattlesnakes. Beware of trains at unregulated Railroad Crossings. Care must be taken when working on beaches backed by high cliffs. Safe entries to, and exits from beaches in this area are related to tides and beach sand levels- YOU MAY GET STRANDED ON THE BEACH - Plan accordingly.

**Site Strategies:**

**Strategy: 4-525.1 Objective:** No Onsite Options: Consider Offshore Containment/Recovery/ART

**Strategy:** There are no feasible onshore protection strategies for this area. Attempt to collect and/or disperse oil in offshore locations before it reaches the shoreline.

Table of Response Resources

**Last Page Update****Logistics:**

**Directions:** Path to beach approximately 0.75 miles through sand dunes from small parking area along road. All terrain vehicles (ATV) may be possible. Other vehicles not realistic.

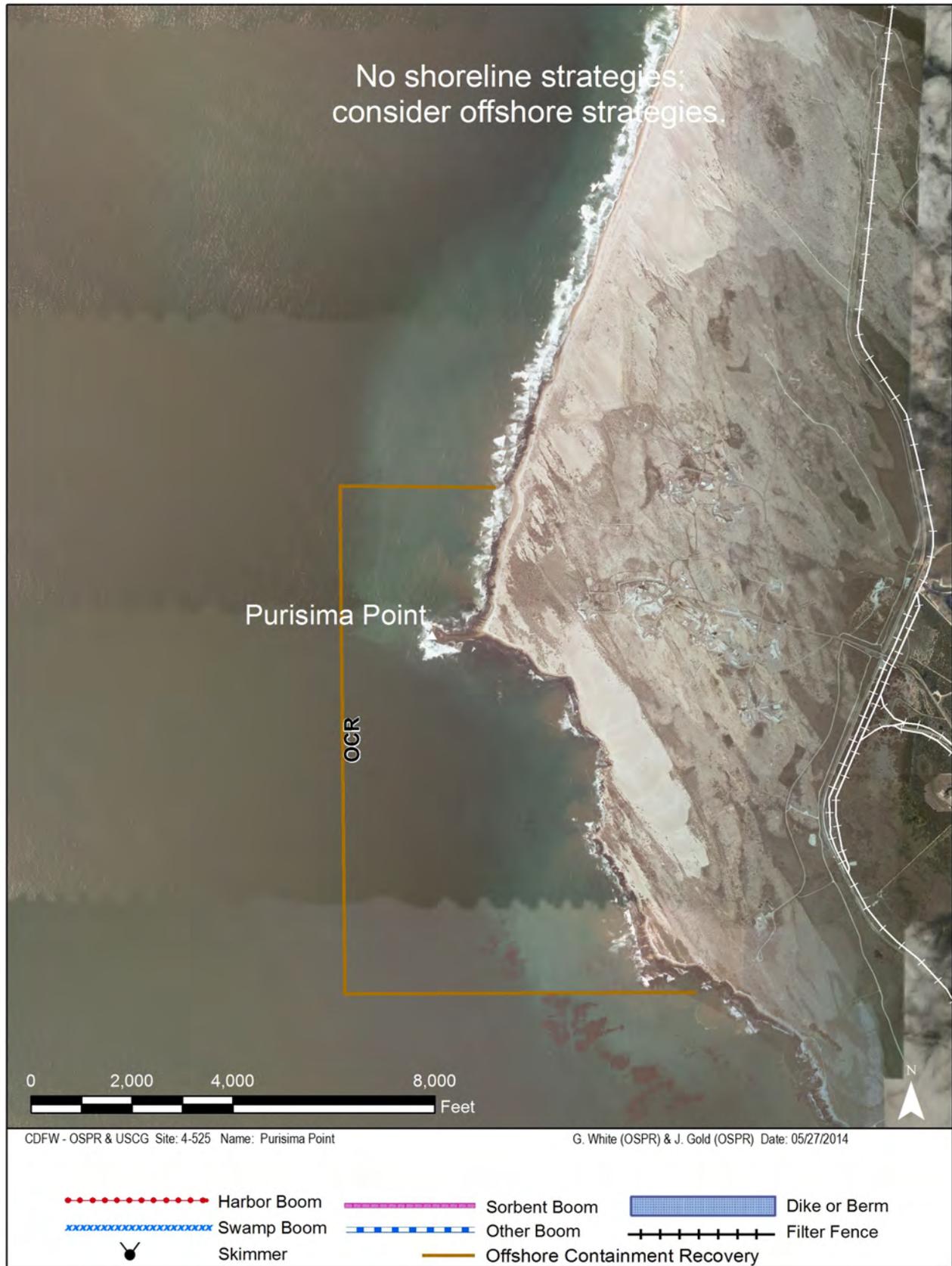
**Land Access:** This site is located on Vandenberg Airforce Base. Access to beaches and land sites must be authorized through the Air Force Base. For access authorization to air base roadways, lands and shorelines responders must call the Law Enforcement Desk at 805-606-3911 and the Vandenberg Conservation Office at 805-606-6804. An escort may be required in some locations.

**On-Water Limitations:** Area is rocky. Avila Harbor is the nearest full service civilian harbor. Facilities for small vessel loading occur at the "Boat House" in the vicinity of Rocky Pt. just south of Pt Arguello. These facilities could be utilized with permission from VAFB.

**Facilities, Staging Areas, Command Posts, Available Equipment:** Remote site, no facilities.

**Communications Problems:** Cell phone communications are limited.

**Additional Operational Comments:** Due to the probable occurrence of western snowy plovers and/or California least terns at this site, please review the Sandy Beach Site Summary and Strategies (Site 4-000-A) for information on response operations when dealing with these sensitive species.



Imagery: NAIP 2010 (Summer) 4-Band

**4-540-A Site Summary - Santa Ynez River****4-540-A****County :** Santa Barbara **ACP Division/Segment :** SB - D - S02**NOAA Chart :** 18700**Map Book :** 894 F x 1**Decimal Degrees :**34.69194 -120.6008**Site Description:**

Special Permission required for access through Vandenberg Air Force Base (see Land Access for more info). The lagoon at the mouth of the Santa Ynez River includes nearly 400 acres of salt and fresh water marshes, mud flats, and open water. During summer months, the lagoon is closed to the ocean by a sand berm. When open and at low tide, most of the lagoon becomes exposed mud flats, except for narrow tidal and river channels. Tidal influence extends about one mile inland. North and south of the river mouth are extensive, wide fine to medium-grained sand beaches backed by vegetated sand dunes. The lagoon and surrounding beaches provide habitat for numerous species of raptors, waterfowl, shorebirds, and seabirds (including brown pelicans). Strong winds and high surf are common. Ocean Beach County Park is located adjacent to the river, approx. 1/4 mile inland. North and south of the mouth is VAFB property. Surfperch can be found offshore. Wetland habitat and fish (steelhead and tidewater goby) are at risk when the creek mouth is open to the ocean during rain and/or high surf and tides. Vandenberg State Marine Reserve is offshore of this site.

**Resources at Risk:***ESI and Habitat:* 10A Salt - and brackish-water marshes

9B Vegetated low banks

9A Sheltered tidal flats

3A Fine- to medium-grained sand beaches

**List of Resources at Risk:**

|            | <b>Resource Name</b>            | <b>Status</b> | <b>Presence</b> |
|------------|---------------------------------|---------------|-----------------|
| Amphibians | California red-legged frog      | FT            | Year-round      |
| Birds      | Western snowy plover            | FT            | Year-round      |
| Birds      | willow flycatcher               |               | Year-round      |
| Birds      | California least tern           | FE, SE        | Apr-Sep         |
| Fish       | steelhead - Southern California | FE            | Year-round      |
| Fish       | tidewater goby                  | FE            | Year-round      |
| Mammals    | Southern sea otter              | FT, SP        | Year-round      |

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

| <b>Type</b> | <b>Name/Title</b>                          | <b>Organization</b>                                | <b>Phone</b>   |
|-------------|--|--|----------------|
| C           | /  | Central Coast Archeological Information Center     | (805) 893-2474 |
| C           | /  | Native American Heritage Commission                | (916) 373-3710 |
| E           | /Santa Barbara County                      | Santa Barbara County Park Department               | (805) 568-2461 |
| E           | /Law Enforcement Desk (24hr)               | Vandenberg Air Force Base                          | (805) 606-3911 |
| E           | Wayne Moses/Chief Conservation Officer     | Vandenberg Air Force Base                          | (805) 606-6804 |
| T           | Mary Larson/Steelhead                      | California Department of Fish & Wildlife           | (562) 537-8624 |
| T           | Becky Ota/Marine Protected Areas           | California Department of Fish and Wildlife         | (650) 631-6789 |
| T           | Steve Wertz/Senior Environmental Scientist | California Department of Fish and Wildlife, Marine | (562) 343-3808 |
| T           | Elizabeth Petras/Biologist                 | National Marine Fisheries Service                  | (562) 980-3238 |
| T           | Rick Bush/Fisheries Biologist              | NOAA National Marine Fisheries Service             | (562) 980-3562 |
| T           | /  | US Fish and Wildlife Service, Federal T&E Species  | (805) 644-1766 |

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

Western snowy plovers nest from Mar-Sep and California least terns nest from Apr-Sep.

**Concerns and Advice to Responders:**

The lagoon is habitat for two threatened/endangered (T/E) fishes. Two T/E bird nests from Mar-Sep. Animals and their associated habitat can be injured by oil and response activities unless responders minimize disturbance in the lagoon. Avoid disturbing the dunes and upper beaches, only drive vehicles on the wet sand and avoid trampling oil into sediments. Follow protective conditions from IC and resource biologists.

**Hazard and Restrictions:**

Special Permission required for access through Vandenberg Air Force Base (see Land Access for more info).

A. Unhealthy levels of coliform bacteria have been found intermittently in streams and on beaches in this area. Use appropriate PPE, safety procedures, and include reference to potential health problems in any site safety plan.

B. Safety Considerations- Roads, trails, beach cliffs and hillsides may be unstable in wet weather. Beware of flashfloods in canyons during rainy weather, ticks, poison oak, and rattlesnakes. Beware of trains at unregulated Railroad Crossings. Care must be taken when working on beaches backed by high cliffs. Safe entries to, and exits from beaches in this area are related to tides and beach sand levels- YOU MAY GET STRANDED ON THE BEACH - Plan accordingly.

**Site Strategies:**

**Strategy: 4-540.1 Objective:** Exclude Oil

*Strategy:* Deploy exclusion booms across the inlet to minimize the likelihood of oiling the estuary. Place the booms in a configuration that forms an adjustable oil collection pocket that can accommodate changes in flow direction. Back exclusion booms with sorbent booms to minimize leakage. Line the shorelines and any side channels within the inlet to prevent collateral oiling. If there is recoverable oil on-water, deploy sorbents and contact the IC immediately regarding the use of skimmers. Monitor, adjust, and replace booms as needed to maintain effectiveness.

Table of Response Resources

| Equipment | Sub-Type      | Size | Unit | QTY  | Unit | Last Page Update                                  |
|-----------|---------------|------|------|------|------|---|
| Boom      | Swamp Boom    |      |      | 2400 | feet | <i>Strategy Updated:<br/>Last Test: 7/25/2018</i> |
| Boom      | Sorbent Boom  |      |      | 1000 | feet |   |
| Vessel    | Skiff or Punt |      |      | 1    |      |   |
| Staff     | Staff         |      |      | 5    |      |   |
| Anchor    |               |      |      | 6    |      |   |

**Logistics:**

*Directions:* From Lompoc, take Hwy. 246 (Ocean Ave) west approx. 10 miles to Ocean Beach County Park entrance. A small boat can be launched into the lagoon from the parking lot. Foot traffic only. Vehicles (4WD and heavy equipment) may access the beach approx. 1 mile north of the river on VAFB property from the Wall Beach parking lot. During dry periods, when the mouth of the Santa Ynez River is closed, approximately 6 miles of surf and wall beaches are accessible from this point.

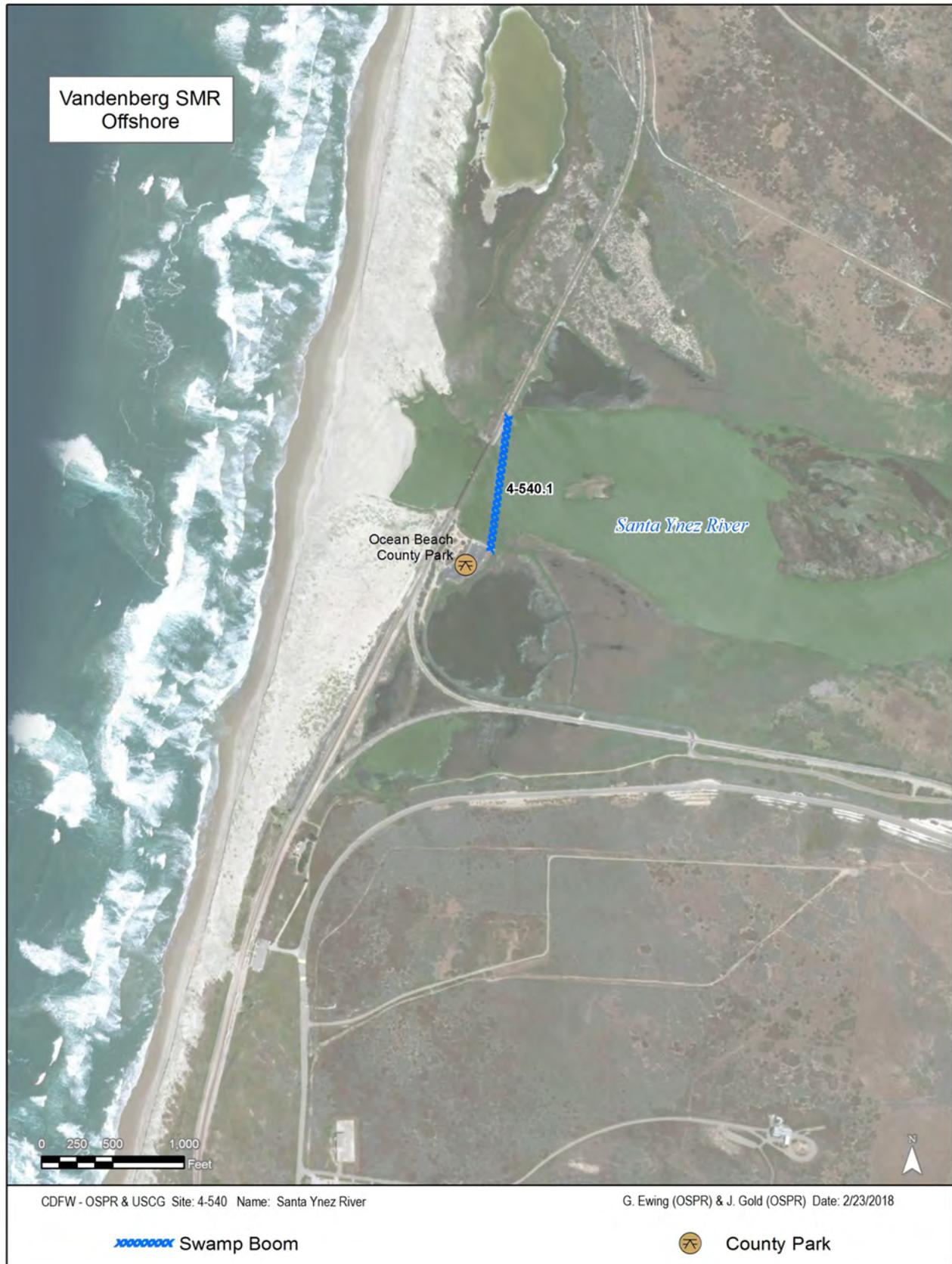
*Land Access:* This site is located on Vandenberg Air Force Base. Access to beaches and land sites must be authorized through the Air Force Base. Responders must call the Law Enforcement Desk at 805-606-3911 and the Vandenberg AFB Conservation Office at 805-606-6804 for access authorization to air base roadways, lands and shorelines. An escort may be required in some locations.

*On-Water Limitations:* Avila Harbor is the nearest full service civilian harbor. Facilities for small vessel loading occur at the Boat House near Rocky Point just south of Point Arguello. These facilities can be utilized with permission from VAFB. Area is rocky.

*Facilities, Staging Areas, Command Posts, Available Equipment:* Equipment: MSRC facility in Carpinteria; approx. 85 miles SE Staging area: Parking lot at Ocean Beach County park Potential command post sites: Lompoc, approx. 9 miles west Closest airports are in Lompoc and Santa Maria.

*Communications Problems:* Cell phone communications are limited.

*Additional Operational Comments:* Due to the probable occurrence of western snowy plovers and/or California least terns at this site, please review the Sandy Beach Site Summary and Strategies (Site 4-000-A) for information on response operations when dealing with these sensitive species. Protect the Marine Protected Area (MPA) boundaries.



**4-550-A Site Summary - Ocean (Wall and Surf) Beach****4-550-A****County :** Santa Barbara **ACP Division/Segment :** SB - D - S01 SB - D - S02 SB - D - S03 SB - D - S04**NOAA Chart :** 18700 **Map Book :** 365 C x 2-4 **Decimal Degrees :** 34.684444 -120.60345**Site Description:**

Special Permission required for access through Vandenberg Air Force Base (see Land Access for more info). This is an approximately 6 mile long stretch of beach. North of the Santa Ynez River is Wall Beach and south of the Santa Ynez River is known as Surf Beach. These are wide, open coastal unprotected medium grain sand beaches, with principal access limited primarily to a foot trail along the south bank of the Santa Ynez River and on the north side of the Santa Ynez River at Wall Beach. Vandenberg State Marine Reserve is offshore of this site.

**Resources at Risk:**

*ESI and Habitat:* 10A Salt - and brackish-water marshes  
3A Fine- to medium-grained sand beaches

**List of Resources at Risk:**

|          | <b>Resource Name</b>                    | <b>Status</b> | <b>Presence</b> |
|----------|---|---------------|-----------------|
| Birds    | Western snowy plover                    | FT            | Year-round      |
| Birds    | California least tern                   | FE, SE        | Apr-Sep         |
| Mammals  | Southern sea otter                      | FT, SP        | Year-round      |
| Reptiles | leatherback sea turtle critical habitat |               | Year-round      |

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

| <b>Type</b> | <b>Name/Title</b>                          | <b>Organization</b>                                | <b>Phone</b>   |
|-------------|--|--|----------------|
| C           | /  | Central Coast Archeological Information Center     | (805) 893-2474 |
| C           | /  | Native American Heritage Commission                | (916) 373-3710 |
| E           | /Santa Barbara County                      | Santa Barbara County Park Department               | (805) 568-2461 |
| E           | /Law Enforcement Desk (24hr)               | Vandenberg Air Force Base                          | (805) 606-3911 |
| E           | Wayne Moses/Chief Conservation Officer     | Vandenberg Air Force Base                          | (805) 606-6804 |
| T           | Becky Ota/Marine Protected Areas           | California Department of Fish and Wildlife         | (650) 631-6789 |
| T           | Steve Wertz/Senior Environmental Scientist | California Department of Fish and Wildlife, Marine | (562) 343-3808 |
| T           | Tina Fahy/Sea Turtle Recovery Coordinator  | NOAA National Marine Fisheries Service             | (562) 980-4023 |
| T           | /  | US Fish and Wildlife Service, Federal T&E Species  | (805) 644-1766 |

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

Western snowy plovers nest from Mar-Sep and California least terns nest from Apr-Sep.

**Concerns and Advice to Responders:**

The best response options for protecting this shoreline are to collect and/or disperse oil in offshore areas before it reaches inshore areas. The dunes and upper beaches provide critical nesting habitat for two Threatened/Endangered birds. Animals and habitat can be injured by oil and response/cleanup activities unless responders avoid disturbing the dunes and upper beaches; drive vehicles on wet sand, and follow protective conditions from IC and resource biologists. Dune habitats and associated biota along the upper beach are vulnerable to damage from trampling, vehicular traffic and heavy equipment activities.

**Hazard and Restrictions:**

Special Permission required for access through Vandenberg Air Force Base (see Land Access for more info).

A. Unhealthy levels of coliform bacteria have been found intermittently in streams and on beaches in this area. Use appropriate PPE, safety procedures, and include reference to potential health problems in any site safety plan.

B. Safety Considerations- Roads, trails, beach cliffs and hillsides may be unstable in wet weather. Beware of flashfloods in canyons during rainy weather, ticks, poison oak, and rattlesnakes. Beware of trains at unregulated Railroad Crossings. Care must be taken when working on beaches backed by high cliffs. Safe entries to, and exits from beaches in this area are related to tides and beach sand levels- YOU MAY GET STRANDED ON THE BEACH - Plan accordingly.

**Site Strategies:**

**Strategy: 4-550.1 Objective:** No Onsite Options: Consider Offshore Containment/Recovery/ART

*Strategy:* There are no feasible onshore protection strategies for this area. Attempt to collect and/or disperse oil in offshore locations before it reaches the shoreline. Protect the Marine Protected Area (MPA) boundaries.

Table of Response Resources

**Last Page Update**

**Logistics:**

*Directions:* From Lompoc, take Hwy. 246 (Ocean ave) west approx. 10 miles to Ocean Beach County Park entrance. Small boats can be launched into the lagoon from the parking lot. Foot traffic only, vehicular access to beach from the Surf parking lot is restricted to ATVs only. Vehicles (4WD and heavy equipment) may access beach approx. 1 mile north of the Santa Ynez River on VAFB property from the Wall Beach parking lot. During dry periods, when the mouth of the Santa Ynez river is closed, approximately 6 miles of Ocean and Wall beaches are accessible from this point.

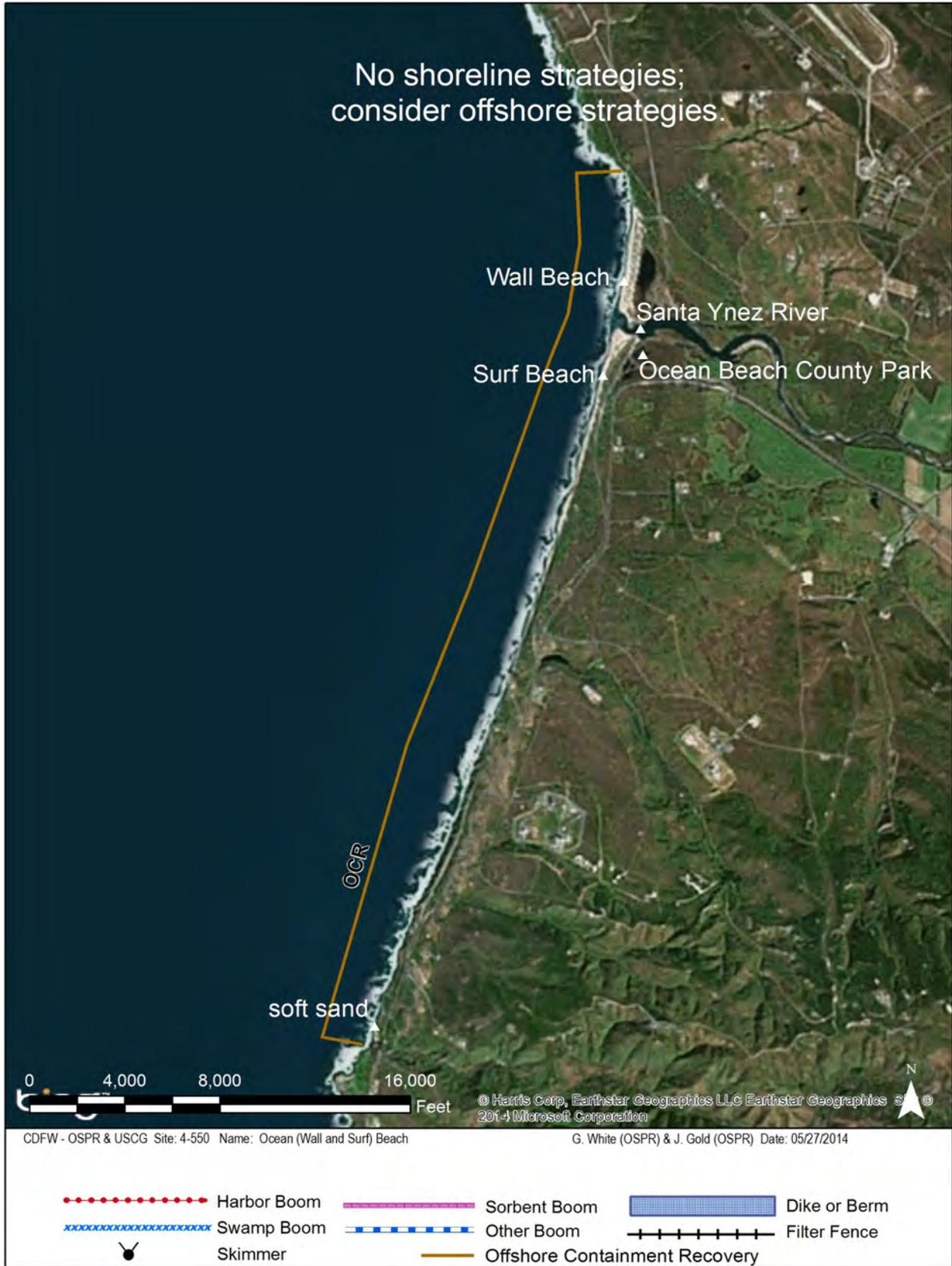
*Land Access:* This site is located on Vandenberg Airforce Base. Access to beaches and land sites must be authorized through the Air Force Base. For access authorization to air base roadways, lands and shorelines responders must call the Law Enforcement Desk at 805-606-3911 and the VAFB Conservation Office at 805-606-6804. An escort may be required in some locations.

*On-Water Limitations:* Avila Harbor is the nearest full service civilian harbor. Facilities for small vessel loading occur at the "Boat House" in the vicinity of Rocky Pt. just south of Pt Arguello. These facilities could be utilized with permission from VAFB. Area is rocky.

*Facilities, Staging Areas, Command Posts, Available Equipment:* Wall Beach - Staging areas for heavy equipment with access to Wall beach only when Santa Ynez River is flowing. When the river is not flowing access to entire 6 miles of coast. Access and Staging area for ATVs at Surf Beach parking lot.

*Communications Problems:* Cell phone communications are limited.

*Additional Operational Comments:* Due to the probable occurrence of western snowy plovers and/or California least terns at this site, please review the Sandy Beach Site Summary and Strategies (Site 4-000-A) for information on response operations when dealing with these sensitive species.



**4-555-A Site Summary - La Honda Creek****4-555-A****County :** Santa Barbara **ACP Division/Segment :** SB - E - S02**NOAA Chart :** 18700**Map Book :** 365 C x 4**Decimal Degrees :** 34.6084 -120.6372**Site Description:**

Special Permission required for access through Vandenberg Air Force Base (see Land Access for more info). La Honda creek lies approx. 0.3 mi north of Pt. Pedernales and is accessible from the south side of the lagoon only. It is a relatively narrow creek with a small coastal lagoon and wetland. The mouth opens onto a pocket beach of medium to coarse-grained sand. To the north are steep dunes and to the south are steep cliffs. Very heavy surf conditions occur along this section of coast. Vandenberg State Marine Reserve is offshore of this site. Various waterfowl and wading birds are present.

**Resources at Risk:***ESI and Habitat:* 10A Salt - and brackish-water marshes

9B Vegetated low banks

3A Fine- to medium-grained sand beaches

**List of Resources at Risk:**

|            | <b>Resource Name</b>       | <b>Status</b> | <b>Presence</b> |
|------------|----------------------------|---------------|-----------------|
| Amphibians | California red-legged frog | FT            | Year-round      |
| Fish       | tidewater goby             | FE            | Year-round      |
| Mammals    | Southern sea otter         | FT, SP        | Year-round      |

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

| <b>Type</b> | <b>Name/Title</b>                          | <b>Organization</b>                                | <b>Phone</b>   |
|-------------|--|--|----------------|
| C           | /  | Central Coast Archeological Information Center     | (805) 893-2474 |
| C           | /  | Native American Heritage Commission                | (916) 373-3710 |
| E           | /Law Enforcement Desk (24hr)               | Vandenberg Air Force Base                          | (805) 606-3911 |
| E           | Wayne Moses/Chief Conservation Officer     | Vandenberg Air Force Base                          | (805) 606-6804 |
| T           | Becky Ota/Marine Protected Areas           | California Department of Fish and Wildlife         | (650) 631-6789 |
| T           | Steve Wertz/Senior Environmental Scientist | California Department of Fish and Wildlife, Marine | (562) 343-3808 |
| T           | /  | US Fish and Wildlife Service, Federal T&E Species  | (805) 644-1766 |

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

**Concerns and Advice to Responders:**

The lagoon is habitat for a Threatened/Endangered fish and other sensitive species. Animals and habitat can be injured by oil and response/cleanup activities unless responders minimize disturbance in stream, lagoon, and associated vegetation; avoid trampling oil into sediments; and follow protective conditions from IC and resource biologists.

**Hazard and Restrictions:**

Special Permission required for access through Vandenberg Air Force Base (see Land Access for more info).

A. Unhealthy levels of coliform bacteria have been found intermittently in streams and on beaches in this area. Use appropriate PPE, safety procedures, and include reference to potential health problems in any site safety plan.

B. Safety Considerations- Roads, trails, beach cliffs and hillsides may be unstable in wet weather. Beware of flashfloods in canyons during rainy weather, ticks, poison oak, and rattlesnakes. Beware of trains at unregulated Railroad Crossings. Care must be taken when working on beaches backed by high cliffs. Safe entries to, and exits from beaches in this area are related to tides and beach sand levels- YOU MAY GET STRANDED ON THE BEACH - Plan accordingly.

**Site Strategies:**

**Strategy: 4-555.1 Objective:** Exclude Oil

*Strategy:* Deploy exclusion booms across the inlet to minimize the likelihood of oiling the estuary. Place the booms in a configuration that forms an adjustable oil collection pocket that can accommodate changes in flow direction. Back exclusion booms with sorbent booms to minimize leakage. Line the shorelines and any side channels within the inlet to prevent collateral oiling. If there is recoverable oil on-water, deploy sorbents and contact the IC immediately regarding the use of skimmers. Monitor, adjust, and replace booms as needed to maintain effectiveness.

Table of Response Resources

| Equipment | Sub-Type     | Size | Unit | QTY | Unit | Last Page Update |
|-----------|--------------|------|------|-----|------|------------------|
| Boom      | Swamp Boom   |      |      | 200 | feet |                  |
| Boom      | Sorbent Boom |      |      | 200 | feet |                  |
| Vehicle   | ATV          |      |      | 1   |      |                  |
| Staff     | Staff        |      |      | 5   |      |                  |
| Anchor    |              |      |      | 2   |      |                  |

**Strategy: 4-555.2 Objective:** Erect Filter Fence

*Strategy:* Construct a filter fence across the front of the channel where the inlet is narrowest, water flows are low or dry, the ground can receive and hold metal stakes, and the spill is heavy oil. Monitor barrier and replace pom-poms as necessary to maintain effectiveness.

Table of Response Resources

| Equipment | Sub-Type             | Size         | Unit   | QTY | Unit  | Last Page Update |
|-----------|----------------------|--------------|--------|-----|-------|------------------|
| Fence     | Construction Fencing | 4 x 100 feet |        | 2   | Rolls |                  |
| Misc.     | Oil Snare (pom-pom)  |              |        |     | 200   |                  |
| stakes    | T-posts              |              | 6 feet | 4   |       |                  |
| Misc.     | Stake Driver         |              |        | 1   |       |                  |
| Vehicle   | ATV                  |              |        | 1   |       |                  |
| Staff     |                      |              |        | 5   |       |                  |

**Strategy: 4-555.3 Objective:** Build Sandbag Dam

*Strategy:* Build a sandbag exclusion/containment dam using onsite materials or imported materials as directed by CDFW biologist. Use clean low silt content sand. If using onsite materials obtain only from un-vegetated areas and have a cultural specialist onsite to monitor. Install underflow pipes and/or a spillway to regulate water flows as conditions dictate. Closely regulate water levels to reduce collateral oiling. If there is recoverable oil on-water, deploy sorbents and contact the IC immediately regarding the use of skimmers.

Table of Response Resources

| Equipment | Sub-Type     | Size | Unit | QTY | Unit | Last Page Update |
|-----------|--------------|------|------|-----|------|------------------|
| Boom      | Sorbent Boom |      |      | 200 | feet |                  |
| anchors   |              |      |      | 4   |      |                  |
| Staff     |              |      |      | 5   |      |                  |
| Vehicle   | ATV          |      |      | 1   |      |                  |
| Sandbags  |              |      |      | 150 |      |                  |

**Strategy: 4-555.4 Objective:** Shoreline Pre-Clean: Resource Specialist Supervision Required

*Strategy:* Consult with resource trustees regarding wildlife issues before undertaking this activity. Hand crews to move and store kelp, driftwood, vegetative debris, trash, and other materials above high-tide line. Dispose of trash. Replace unoiled debris in its former location once the threat of oiling is past.

Table of Response Resources

| Equipment | Sub-Type   | Size | Unit | QTY | Unit | Last Page Update |
|-----------|------------|------|------|-----|------|------------------|
| Vehicle   | ATV        |      |      | 1   |      |                  |
| Misc.     | Trash Bags |      |      |     |      |                  |
| Staff     | Staff      |      |      | 5   |      |                  |

**Logistics:**

*Directions:* Access to the creek mouth is by foot and possibly by all terrain vehicles (ATVs) along a trail at the south end of the site. Sand is soft and may not support larger vehicles.

*Land Access:* This site is located on Vandenberg Airforce Base. Access to beaches and land sites must be authorized through the Air Force Base. For access authorization to air base roadways, lands and shorelines responders must call the Law Enforcement Desk at 805-606-3911 and the VAFB Conservation Office at 805-606-6804. An escort may be required in some locations.

*On-Water Limitations:* Avila Harbor is the nearest full service civilian harbor. Facilities for small vessel loading occur at the "Boat House" in the vicinity of Rocky Point just south of Point Arguello. These facilities could be utilized with permission from VAFB. Area is rocky.

*Facilities, Staging Areas, Command Posts, Available Equipment:*

*Communications Problems:* Cell phone communications are limited.

*Additional Operational Comments:* Protect the Marine Protected Area (MPA) boundaries.



Imagery: NAIP 2010

**4-560-A Site Summary - Point Pedernales & Point Arguello****4-560-A**

**County :** Santa Barbara **ACP Division/Segment :** SB - E - S03 SB - E - S04 SB - E - S05 SB - E - S06  
 SB - E - S07 SB - E - S08 SB - E - S09

**NOAA Chart :** 18700**Map Book :** 365 C x 4-5**Decimal Degrees :** 34.5842 -120.6453**Site Description:**

Special Permission required for access through Vandenberg Air Force Base (see Land Access for more info). This site extends from the Point Pedernales area to the "boat house", approximately 2 miles SSE of Rocky Point. The area is a combination of exposed rocky cliffs, wave-cut platforms, fine to medium-grained sand beaches, mixed sand and gravel beaches, many of these being pocket beaches. This is a high energy, west facing coastal segment, with numerous offshore wash rocks. Vandenberg State Marine Reserve is included in this site. This site is associated with the following BLM California Coastal National Monument site: Destroyer Rock. This rock is west of Point Pedernales. It potentially has ashy storm-petrel nesting. Harbor seal pupping and breeding (Dec-May) occurs at this site. Seabird nesting occurs during the spring and summer. All year for a small group of sea otters in the Point Pedernales area. Rich rocky intertidal biota offshore including red sea urchins, spiny lobster and rockfish.

**Resources at Risk:***ESI and Habitat:* 5 Mixed sand and gravel beaches

3B Scarps and steep slopes in sand

2A Exposed wave-cut platforms in bedrock, mud, or clay

1A Exposed Rocky Shore

**List of Resources at Risk:**

| Resource Name                                    | Status | Presence   |
|--|--------|------------|
| Invertebrates black abalone                      | FE     | Year-round |
| Reptiles leatherback sea turtle critical habitat |        | Year-round |

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

| Type | Name/Title                                 | Organization                                       | Phone          |
|------|--|--|----------------|
| C    | /  | Central Coast Archeological Information Center     | (805) 893-2474 |
| C    | /  | Native American Heritage Commission                | (916) 373-3710 |
| E    | John Hodge/Associate Field Manager         | Bureau of Land Management, Coastal Natl. Monum     | (661) 301-1659 |
| E    | /Law Enforcement Desk (24hr)               | Vandenberg Air Force Base                          | (805) 606-3911 |
| E    | Wayne Moses/Chief Conservation Officer     | Vandenberg Air Force Base                          | (805) 606-6804 |
| T    | Becky Ota/Marine Protected Areas           | California Department of Fish and Wildlife         | (650) 631-6789 |
| T    | Steve Wertz/Senior Environmental Scientist | California Department of Fish and Wildlife, Marine | (562) 343-3808 |
| T    | Justin Viezbicke/Marine Mammal Stranding   | NOAA National Marine Fisheries Service             | (562) 506-4315 |
| T    | Melissa Neuman/Marine Biologist            | NOAA National Marine Fisheries Service             | (562) 481-4594 |
| T    | Tina Fahy/Sea Turtle Recovery Coordinator  | NOAA National Marine Fisheries Service             | (562) 980-4023 |
| T    | /  | US Fish and Wildlife Service, Federal T&E Species  | (805) 644-1766 |

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

**Concerns and Advice to Responders:**

Inshore waters and shorelines contain sensitive habitat for invertebrates, birds, sea otters, and other marine mammals which can be injured or killed by oil. Because there are no practicable onshore response strategies for protecting these resources and the shorelines are virtually inaccessible except by foot traffic, landing craft or helicopter, it is best to collect and/or disperse oil offshore, before it reaches inshore areas or the shoreline.

**Hazard and Restrictions:**

Special Permission required for access through Vandenberg Air Force Base (see Land Access for more info). Unhealthy levels of coliform bacteria have been found intermittently in streams and on beaches in this area. Use appropriate PPE, safety procedures, and include reference to potential health problems in any site safety plan.

**Site Strategies:**

**Strategy: 4-560.1 Objective:** Shoreline Pre-Clean: Resource Specialist Supervision Required

*Strategy:* Consult with resource trustees regarding wildlife issues before undertaking this activity. Hand crews to move and store kelp, driftwood, vegetative debris, trash, and other materials above high-tide line. Dispose of trash. Replace unoiled debris in its former location once the threat of oiling is past.

Table of Response Resources

| Equipment | Sub-Type   | Size | Unit | QTY | Unit | Last Page Update |
|-----------|------------|------|------|-----|------|------------------|
| Vehicle   | ATV        |      |      | 1   |      |                  |
| Misc.     | Trash Bags |      |      |     |      |                  |
| Staff     |            |      |      | 5   |      |                  |

**Logistics:**

*Directions:* Access to the shoreline is available at the south end of site ("boat house"), but is very limited elsewhere.

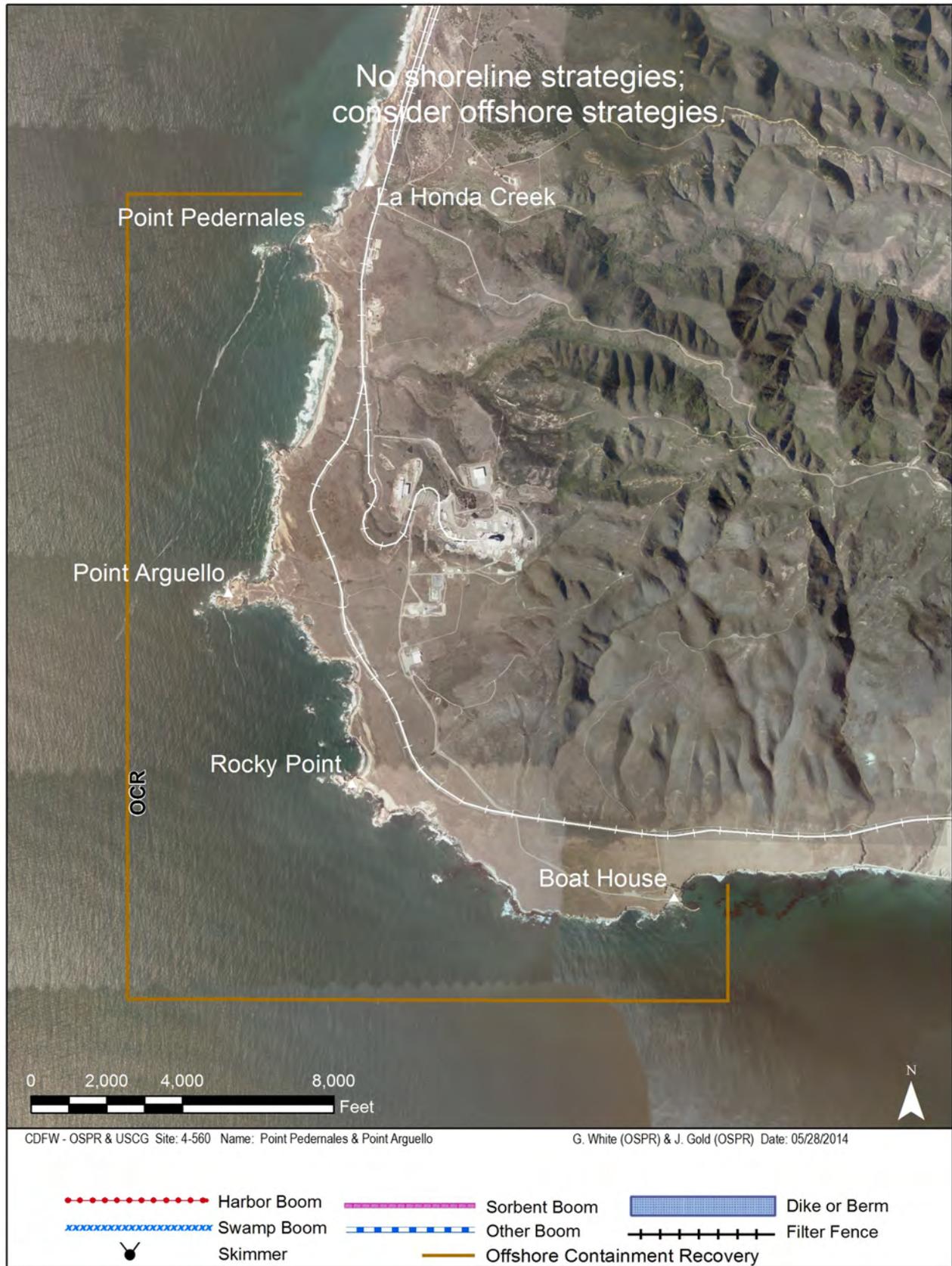
*Land Access:* This site is located on Vandenberg Airforce Base. Access to beaches and land sites must be authorized through the Air Force Base. For access authorization to the air base roadways, lands and shorelines responders must call the Law Enforcement Desk at 805-606-3911 and the Vandenberg Conservation Office at 805-606-6804. An escort may be required in some locations.

*On-Water Limitations:* Avila Harbor is the nearest full service civilian harbor. Facilities for small vessel loading occur at the "Boat House" in the vicinity of Rocky Pt. just south of Pt Arguello. These facilities could be utilized with permission from VAFB. Area is rocky.

*Facilities, Staging Areas, Command Posts, Available Equipment:* An Old Coast Guard Building located on Bluffs above boat dock may provide a field command post.

*Communications Problems:* Cell phone communications are limited.

*Additional Operational Comments:* The California Department of Fish and Wildlife and VAFB must be consulted before the staging of motorized equipment and heavy traffic are permitted.



**4-565-A Site Summary - Jalama Creek****4-565-A****County :** Santa Barbara **ACP Division/Segment :** SB - F - S03**NOAA Chart :** 18700**Map Book :** 365 D x 6**Decimal Degrees :** 34.51111 -120.50167**Site Description:**

Jalama Creek and beach area includes 100 yards to the North and South of the creek. The area is bounded by rocky headlands. Jalama Creek is a moderate sized creek with a mouth approximately 150 feet wide. The stream enters the ocean through a small channel most of the year. The size of the estuary varies with seasonal runoff. About 55 yards of the creek are subject to tidal surges. Cobble fields that surround the mouth of the creek are often covered by sand in the summer and fall months.

To the north and south of Jalama Creek, there exists a wide "crescent beach" bounded by rocky headlands. The beach is primarily fine-grained sand in the summer months. This beach has an under layer of cobbles and boulders which may become exposed in the winter season. The beach is backed by low dunes to the south, and bluffs to the north. Drift wood, trash, and kelp is often stranded on the upper portions of the beach. Large swells and persistent onshore winds are characteristic of this coastline. Grunion spawning occurs in the spring and summer during high tides. Surfperch are found offshore. All year for waterfowl, brown pelicans and harbor seals.

**Resources at Risk:***ESI and Habitat:* 10A Salt - and brackish-water marshes

9B Vegetated low banks

5 Mixed sand and gravel beaches

3A Fine- to medium-grained sand beaches

**List of Resources at Risk:**

|            | <b>Resource Name</b>            | <b>Status</b> | <b>Presence</b> |
|------------|---------------------------------|---------------|-----------------|
| Amphibians | California red-legged frog      | FT            | Year-round      |
| Birds      | Western snowy plover            | FT            | Year-round      |
| Fish       | steelhead - Southern California | FE            | Year-round      |
| Fish       | tidewater goby                  | FE            | Year-round      |
| Fish       | grunion                         |               | Mar-Aug         |
| Mammals    | Southern sea otter              | FT, SP        | Year-round      |
| Plants     | Gaviota tarplant                | FE, SE        | Year-round      |
| Reptiles   | southwestern pond turtle        | SSC           | Year-round      |

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

| <b>Type</b> | <b>Name/Title</b>             | <b>Organization</b>                               | <b>Phone</b>   |
|-------------|-------------------------------|---|----------------|
| C           | /                             | Central Coast Archeological Information Center    | (805) 893-2474 |
| C           | /                             | Native American Heritage Commission               | (916) 373-3710 |
| E           | /Santa Barbara County         | Santa Barbara County Park Department              | (805) 568-2461 |
| E           | /                             | Santa Barbara County Parks, Jalama Beach          | (805) 736-6890 |
| T           | Mary Larson/Steelhead         | California Department of Fish & Wildlife          | (562) 537-8624 |
| T           | Rick Bush/Fisheries Biologist | NOAA National Marine Fisheries Service            | (562) 980-3562 |
| T           | /                             | US Fish and Wildlife Service, Federal T&E Species | (805) 644-1766 |

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

Western snowy plovers nest from Mar-Sep.

**Concerns and Advice to Responders:**

The lagoon is habitat for a two Threatened/Endangered fish. Animals and habitat can be injured by oil and response/cleanup activities unless responders minimize disturbance in stream, lagoon, and associated vegetation; avoid trampling oil into sediments; and follow protective conditions from IC and resource biologists.

**Hazard and Restrictions:**

Unhealthy levels of coliform bacteria have been found intermittently in streams and on beaches in this area. Use appropriate PPE, safety procedures, and include reference to potential health problems in any site safety plan.

**Site Strategies:****Strategy: 4-565.1 Objective:** Exclude Oil

*Strategy:* Deploy exclusion booms across the inlet to minimize the likelihood of oiling the estuary. Place the booms in a configuration that forms an adjustable oil collection pocket that can accommodate changes in flow direction. Back exclusion booms with sorbent booms to minimize leakage. Line the shorelines and any side channels within the inlet to prevent collateral oiling. If there is recoverable oil on-water, deploy sorbents and contact the IC immediately regarding the use of skimmers. Monitor, adjust, and replace booms as needed to maintain effectiveness.

Table of Response Resources

| Equipment | Sub-Type     | Size | Unit | QTY | Unit | Last Page Update |
|-----------|--------------|------|------|-----|------|------------------|
| Boom      | Swamp Boom   |      |      | 200 | feet |                  |
| Boom      | Sorbent Boom |      |      | 200 | feet |                  |
| Anchor    |              |      |      | 4   |      |                  |
| Staff     |              |      |      | 5   |      |                  |

**Strategy: 4-565.2 Objective:** Build Sandbag Dam

*Strategy:* Build a sandbag exclusion/containment dam using onsite materials or imported materials as directed by CDFW biologist. Use clean low silt content sand. If using onsite materials obtain only from un-vegetated areas and have a cultural specialist onsite to monitor. Install underflow pipes and/or a spillway to regulate water flows as conditions dictate. Closely regulate water levels to reduce collateral oiling. If there is recoverable oil on-water, deploy sorbents and contact the IC immediately regarding the use of skimmers.

Table of Response Resources

| Equipment | Sub-Type     | Size | Unit | QTY | Unit | Last Page Update |
|-----------|--------------|------|------|-----|------|------------------|
| Boom      | Sorbent Boom |      |      | 200 | feet |                  |
| Anchor    |              |      |      | 4   |      |                  |
| Staff     |              |      |      | 5   |      |                  |
| Sandbags  |              |      |      | 150 |      |                  |

**Strategy: 4-565.3 Objective:** Erect Filter Fence

*Strategy:* Construct a filter fence across the front of the channel where the inlet is narrowest, water flows are low or dry, the ground can receive and hold metal stakes, and the spill is heavy oil. Monitor barrier and replace pom-poms as necessary to maintain effectiveness.

Table of Response Resources

| Equipment | Sub-Type             | Size         | Unit   | QTY | Unit  | Last Page Update |
|-----------|----------------------|--------------|--------|-----|-------|------------------|
| Fence     | Construction Fencing | 4 x 100 feet |        | 4   | Rolls |                  |
| Misc.     | Oil Snare (pom-pom)  |              |        | 200 |       |                  |
| stakes    | T-posts              |              | 6 feet | 40  |       |                  |
| Misc.     | Stake Driver         |              |        | 1   |       |                  |
| Staff     |                      |              |        | 5   |       |                  |

**Strategy: 4-565.4 Objective:** Shoreline Pre-Clean: Resource Specialist Supervision Required

*Strategy:* Consult with resource trustees regarding wildlife issues before undertaking this activity. Hand crews to move and store kelp, driftwood, vegetative debris, trash, and other materials above high-tide line. Dispose of trash. Replace unoiled debris in its former location once the threat of oiling is past.

Table of Response Resources

| Equipment | Sub-Type   | Size | Unit | QTY | Unit | Last Page Update |
|-----------|------------|------|------|-----|------|------------------|
| Misc.     | Trash Bags |      |      |     |      |                  |
| Staff     |            |      |      | 5   |      |                  |

### Logistics:

*Directions:* From Highway 1 south southeast of Lompoc, take Jalama Road to Jalama Beach County Park. Jalama Road is approximately 14 miles long. It is narrow and windy, driving is slow.

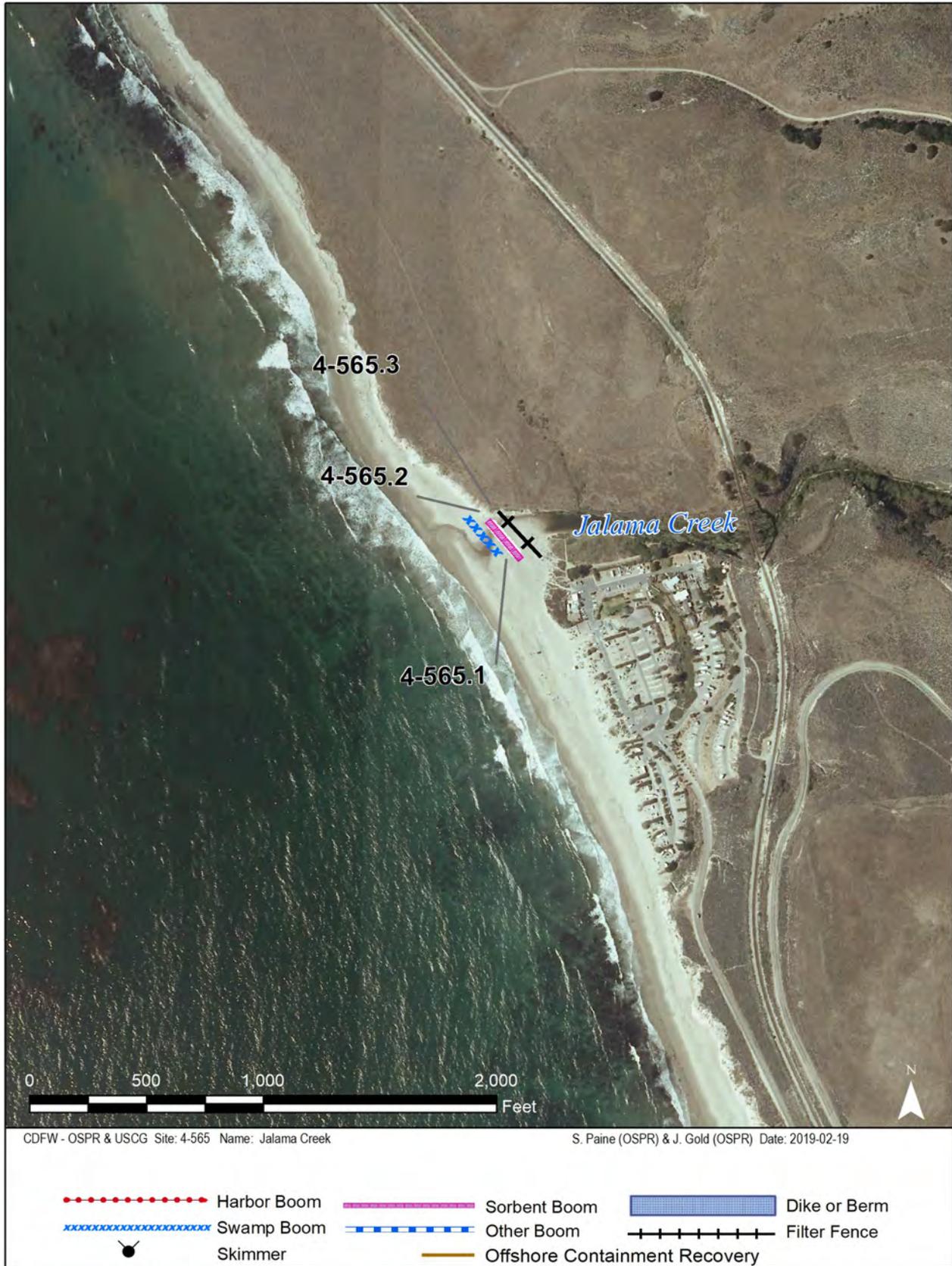
*Land Access:* Foot, 4WD vehicles and heavy equip't accessible thru County Park.

*On-Water Limitations:* Santa Barbara Harbor is the nearest full service civilian harbor for full service berthing, launching and fueling. There is heavy surf.

*Facilities, Staging Areas, Command Posts, Available Equipment:* Improved camping facilities, restrooms, a small store, and café. There is also a large parking lot south of the creek.

*Communications Problems:* Cell phone communications are limited.

*Additional Operational Comments:* Due to the probable occurrence of western snowy plovers and/or California least terns at this site, please review the Sandy Beach Site Summary and Strategies (Site 4-000-A) for information on response operations when dealing with these sensitive species.



Imagery: NAIP 2010 (Summer) 4-Band

**4-567-A Site Summary - Point Conception & Government Point**

**4-567-A**

**County:** Santa Barbara    **ACP Division/Segment:** SB - G - S02    SB - G - S03    SB - H - S01    SB - H - S02

**NOAA Chart:** 18700

**Map Book:** 365 E x 6

**Decimal Degrees:** 34.4425 -120.45167

**Site Description:**

The Pt. Conception/Government Pt. area covers about 3 mi, from 0.5 mi NW of Pt. Conception light house to the middle of Cojo Bay. The shoreline is predominantly exposed rocky cliffs and wave-cut platforms with seasonally extensive sand beaches. There are also numerous offshore rock reefs and wash rocks. This segment of coast faces predominantly southwest and is a very remote and high energy environment. Point Conception State Marine Reserve is located at this site. Harbor seal pupping and breeding (Dec-May) occur at this site. All year high concentrations of elephant seals, seabirds, rich intertidal biota, kelp beds and rockfish. Migrating grey whales pass by close to shore (Nov-May). Western snowy plovers are found at perco's beach.

**Resources at Risk:**

- ESI and Habitat:* 3A Fine- to medium-grained sand beaches
- 2A Exposed wave-cut platforms in bedrock, mud, or clay
- 1A Exposed Rocky Shore

**List of Resources at Risk:**

|               | <b>Resource Name</b> | <b>Status</b> | <b>Presence</b> | <b>Sensitivity</b> |
|---------------|----------------------|---------------|-----------------|--------------------|
| Birds         | Western snowy plover | FT, SSC       | Year-round      |                    |
| Invertebrates | black abalone        | FE            | Year-round      |                    |
| Mammals       | Southern sea otter   | FT, SP        | Year-round      |                    |
| Plants        | Gaviota tarplant     | FE, SE        | Year-round      |                    |

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

| <b>Type</b> | <b>Name/Title</b>                            | <b>Organization</b>                              | <b>Phone</b>   |
|-------------|--|--|----------------|
| C           | /  | Central Coast Archeological Information Center   | (805) 893-2474 |
| C           | /  | Native American Heritage Commission              | (916) 373-3710 |
| E           | Moses Katkowski/Preserve Manager             | Jack and Laura Dangermond Preserve               | (805) 736-7300 |
| T           | Steve Wertz/Senior Env. Scientist Supervisor | Califorina Department of Fish and Wildlife, MPAs | (562) 342-7184 |
| T           | Becky Ota/                                   | California Department of Fish & Wildlife, MPAs   | (650) 631-6789 |
| T           | Melissa Neuman/Marine Biologist              | NOAA National Marine Fisheries Service           | (562) 481-4594 |
| T           | /  | US Fish and Wildlife Service, Federal T&E Speci  | (805) 644-1766 |

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

Western snowy plovers nest from Mar-Sep.

**Concerns and Advice to Responders:**

Inshore waters and shorelines contain sensitive habitat for invertebrates, birds, sea otters, and other marine mammals which can be injured or killed by oil. Because there are no practicable onshore response strategies for protecting these resources and the shorelines are virtually inaccessible except by foot traffic, landing craft or helicopter, it is best to collect and/or disperse oil offshore, before it reaches inshore areas or the shoreline.

**Hazard and Restrictions:**

A. Unhealthy levels of coliform bacteria have been found intermittently in streams and on beaches in this area. Use appropriate PPE, safety procedures, and include reference to potential health problems in any site safety plan.

B. Safety Considerations- Roads, trails, beach cliffs and hillsides may be unstable in wet weather. Beware of flashfloods in canyons during rainy weather, ticks, poison oak, and rattlesnakes. Beware of trains at unregulated Railroad Crossings. Care must be taken when working on beaches backed by high cliffs. Safe entries to, and exits from beaches in this area are related to tides and beach sand levels- YOU MAY GET STRANDED ON THE BEACH - Plan accordingly.

**Site Strategies:****Site Validation Level: II**

**Strategy: 4-567.1 Objective:** No Onsite Options: Consider Offshore Containment/Recovery/ART Strategy. There are no feasible onshore protection strategies for this area. Attempt to collect and/or disperse oil in offshore locations before it reaches the shoreline. Protect the Marine Protected Area (MPA) boundaries.

Table of Response Resource

**Last Page Update****Logistics:**

*Directions:* From highway 1, 2 miles south of Lompoc, take Jalama road 14.2 miles to the Jack and Laura Dangermond Preserve. Look for the wrought iron gate with green "C" on it, just before the railroad track. Private access, requires prior approval. Call the preserve manager at 805-736-7300. Access also available by USCG marine: safety detachment 805 962-7430 through the Point Conception lighthouse. Fair to good access to beach for equipment at Perco's beach. Inflatable boats can be launched from Perco's Beach or Jalama Beach. Larger vessels from Gaviota pier, Avila harbor, or Santa Barbara harbor.

*Land Access:* Access to the Jack and Laura Dangermond Preserve is possible from Jalama Road with prior approval from the preserve manager at 805-736-7300. Should this not be possible, access can also be obtained through Gaviota State Park/Hollister Ranch gatehouse at 805-567-5016.

*On-Water Limitations:* Santa Barbara Harbor is the nearest full service civilian harbor for full service berthing, launching and fueling.

*Facilities, Staging Areas, Command Posts, Available Equipment:*

*Communications Problems:* Cell phone communications are limited.

*Additional Operational Comments:* Due to the probable occurrence of western snowy plovers and/or California least terns at this site, please review the Sandy Beach Site Summary and Strategies (Site 4-000-A) for information on response operations when dealing with these sensitive species.



CDFW - OSPR & USCG Site: 4-567 Name: Point Conception and Government Point

G. White (OSPR) & J. Gold (OSPR) Date: 05/28/2014

- |   |   |   |
|---|---|---|
|  Harbor Boom |  Sorbent Boom                  |  Dike or Berm |
|  Swamp Boom  |  Other Boom                    |  Filter Fence |
|  Skimmer     |  Offshore Containment Recovery |   |

Imagery: NAIP 2010 (Summer) 4-Band



**Index Map – GRA 5, Santa Barbara County West Environmental Sensitive Sites**

## 9812.2.2 GRA 5 Site Index

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| 4-620-A       | Las Llagas (El Capitan Ranch Beach)     | <a href="#">370</a> |
| 4-625-A       | Naples                                  | <a href="#">374</a> |
| 4-630-A       | Eagle Canyon Creek                      | <a href="#">377</a> |
| 4-635-A       | Tecolote Creek                          | <a href="#">381</a> |
| 4-640-A       | Bell Canyon Creek                       | <a href="#">385</a> |
| 4-645-A       | Devereaux Slough                        | <a href="#">389</a> |

**4-570-C Site Summary - Damsite Canyon Creek****4-570-C****County:** Santa Barbara **ACP Division/Segment:** SB - H - S02**NOAA Chart:** 18721**Map Book:** 365 E x 7**Decimal Degrees:** 34.45 -120.4266**Site Description:**

Apx 1.9 miles east of government point, Damsite Canyon is a relatively small, intermittent stream that empties out onto a fine to medium-grained sand south facing beach. A sand berm develops during the dry season. The Southern Pacific Railroad passes over this creek. Point Conception State Marine Reserve is included in this site. Whenever the creek is open, creek biota and a small coastal brackish wetland are at risk. Willow-riparian woodland surrounded by coastal sage scrub.

**Resources at Risk:***ESI and Habitat:* 10A Salt - and brackish-water marshes

9B Vegetated low banks

3A Fine- to medium-grained sand beaches

**List of Resources at Risk:**

|            | <b>Resource Name</b>       | <b>Status</b> | <b>Presence</b> | <b>Sensitivity</b> |
|------------|----------------------------|---------------|-----------------|--------------------|
| Amphibians | California red-legged frog | FT, SSC       | Year-round      |                    |
| Fish       | tidewater goby             | FE, SSC       | Year-round      |                    |
| Mammals    | Southern sea otter         | FT, SP        | Year-round      |                    |
| Plants     | Gaviota tarplant           | FE, SE        | Year-round      |                    |
| Reptiles   | southwestern pond turtle   | SSC           | Year-round      |                    |

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

| <b>Type</b> | <b>Name/Title</b>                            | <b>Organization</b>                              | <b>Phone</b>   |
|-------------|--|--|----------------|
| C           | /  | Central Coast Archeological Information Center   | (805) 893-2474 |
| C           | /  | Native American Heritage Commission              | (916) 373-3710 |
| E           | Ranch Gate/24 hour number                    | Hollister Ranch Owners Association               | (805) 567-5016 |
| E           | Josh Farberow/Ranch Manager                  | Hollister Ranch Owners Association               | (805) 567-5020 |
| E           | Moses Katkowski/Preserve Manager             | Jack and Laura Dangermond Preserve               | (805) 736-7300 |
| T           | Steve Wertz/Senior Env. Scientist Supervisor | Califorina Department of Fish and Wildlife, MPAs | (562) 342-7184 |
| T           | Becky Ota/Marine Protected Areas             | California Department of Fish and Wildlife       | (650) 631-6789 |
| T           | /  | US Fish and Wildlife Service, Federal T&E Speci  | (805) 644-1766 |

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

**Concerns and Advice to Responders:**

Animals and habitat can be injured by oil and response/cleanup activities unless responders minimize disturbance in stream, lagoon, and associated vegetation; avoid trampling oil into sediments; and follow protective conditions from IC and resource biologists.

Two pipelines (a 24-inch oil line and a 20-inch natural gas line) transit the area north of the RR track. They run 18 miles from Jalama coast to the Freeport-McMoRan plant near Gaviota. The creek enters the ocean through a culvert which runs under the railroad track earth fill creek crossing.

**Hazard and Restrictions:**

A. Unhealthy levels of coliform bacteria have been found intermittently in streams and on beaches in this area. Use appropriate PPE, safety procedures, and include reference to potential health problems in any site safety plan.

B. Safety Considerations- Roads, trails, beach cliffs and hillsides may be unstable in wet weather. Beware of flashfloods in canyons during rainy weather, ticks, poison oak, and rattlesnakes. Beware of trains at unregulated Railroad Crossings. Care must be taken when working on beaches backed by high cliffs. Safe entries to, and exits from beaches in this area are related to tides and beach sand levels- YOU MAY GET STRANDED ON THE BEACH - Plan accordingly.

**Site Strategies:****Site Validation Level: II****Strategy: 4-570.1 Objective:** Exclude Oil

*Strategy.* Deploy exclusion booms across the inlet to minimize the likelihood of oiling the estuary. Place the booms in a configuration that forms an adjustable oil collection pocket that can accommodate changes in flow direction. Back exclusion booms with sorbent booms to minimize leakage. Line the shorelines and any side channels within the inlet to prevent collateral oiling. If there is recoverable oil on-water, deploy sorbents and contact the IC immediately regarding the use of skimmers. Monitor, adjust, and replace booms as needed to maintain effectiveness.

Table of Response Resource

| Equipment | Sub-Type     | Size | Unit | QTY | Unit | Last Page Update |
|-----------|--------------|------|------|-----|------|------------------|
| Boom      | Swamp Boom   |      |      | 100 | feet |                  |
| Boom      | Sorbent Boom |      |      | 100 | feet |                  |
| Vehicle   | ATV          |      |      | 1   |      |                  |
| Staff     |              |      |      | 5   |      |                  |
| Anchor    |              |      |      | 5   |      |                  |

**Strategy: 4-570.2 Objective:** Build Sandbag Dam

*Strategy.* Build a sandbag exclusion/containment dam using onsite materials or imported materials as directed by CDFW biologist. Use clean low silt content sand. If using onsite materials obtain only from un-vegetated areas and have a cultural specialist onsite to monitor. Install underflow pipes and/or a spillway to regulate water flows as conditions dictate. Closely regulate water levels to reduce collateral oiling. If there is recoverable oil on-water, deploy sorbents and contact the IC immediately regarding the use of skimmers.

Table of Response Resource

| Equipment | Sub-Type     | Size | Unit | QTY | Unit | Last Page Update |
|-----------|--------------|------|------|-----|------|------------------|
| Boom      | Sorbent Boom |      |      | 80  | feet |                  |
| Anchor    |              |      |      | 2   |      |                  |
| Staff     |              |      |      | 5   |      |                  |
| Vehicle   | ATV          |      |      | 1   |      |                  |
| Sandbags  |              |      |      | 150 |      |                  |

**Strategy: 4-570.3 Objective:** Erect Filter Fence

*Strategy:* Construct a filter fence across the front of the channel where the inlet is narrowest, water flows are low or dry, the ground can receive and hold metal stakes, and the spill is heavy oil. Monitor barrier and replace pom-poms as necessary to maintain effectiveness.

Table of Response Resource

| Equipment | Sub-Type             | Size    | Unit   | QTY | Unit  | Last Page Update |
|-----------|----------------------|---------|--------|-----|-------|------------------|
| Fence     | Construction Fencing | 4 x 100 | feet   | 2   | Rolls |                  |
| Misc.     | Oil Snare (pom-pom)  |         |        | 160 |       |                  |
| stakes    | T-posts              |         | 6 feet | 20  |       |                  |
| Misc.     | Stake Driver         |         |        | 1   |       |                  |
| Vehicle   | ATV                  |         |        | 1   |       |                  |
| Staff     |                      |         |        | 5   |       |                  |

**Strategy: 4-570.4 Objective:** Shoreline Pre-Clean: Resource Specialist Supervision Required

*Strategy:* Consult with resource trustees regarding wildlife issues before undertaking this activity. Hand crews to move and store kelp, driftwood, vegetative debris, trash, and other materials above high-tide line. Dispose of trash. Replace unoiled debris in its former location once the threat of oiling is past.

Table of Response Resource

| Equipment | Sub-Type   | Size | Unit | QTY | Unit | Last Page Update |
|-----------|------------|------|------|-----|------|------------------|
| Vehicle   | ATV        |      |      | 1   |      |                  |
| Misc.     | Trash Bags |      |      |     |      |                  |
| Staff     |            |      |      | 5   |      |                  |

**Logistics:**

*Directions:* From Highway 1, two miles south of Lompoc, take Jalama Road 14.2 miles to the Jack and Laura Dangermond Preserve. Look for wrought iron gate with green "C" on it, just before the railroad track. Enter gate and drive eastward toward Damsite Canyon.

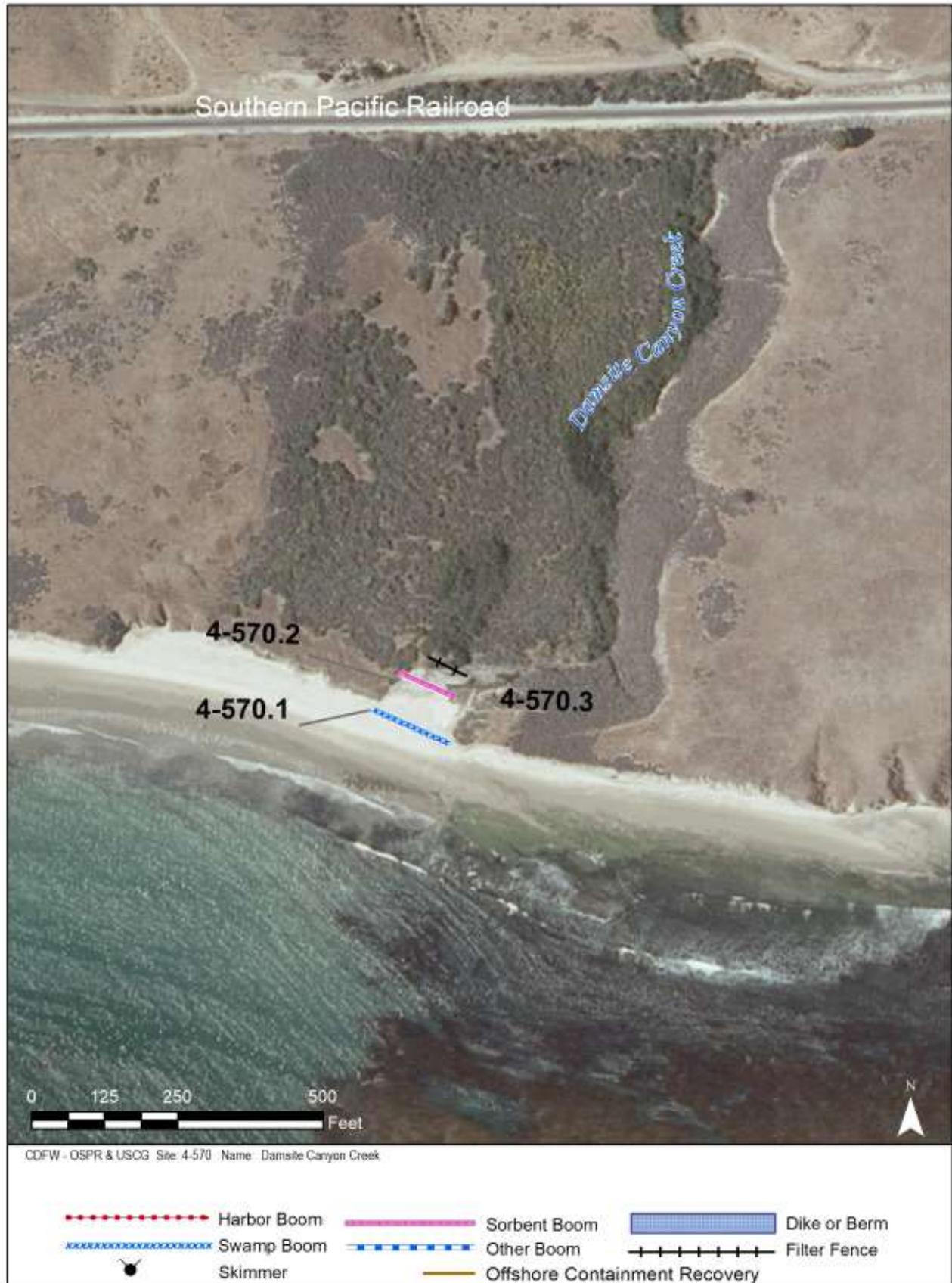
*Land Access:* Access must be obtained through the Jack and Laura Dangermond Preserve manager at 805-736-7300 or through the paved road entrance at Gaviota State Park/Hollister Ranch Gatehouse at 805-567-5016 or from the ranch manager at 805-567-5020. Surfin' Cowboy Ranch- between Hollister Ranch (East) and Jack and Laura Dangermond Preserve (West) includes Cojo Drainage to Barranca Honda.

*On-Water Limitations:* Santa Barbara Harbor is the nearest full service civilian harbor for full service berthing, launching and fueling.

*Facilities, Staging Areas, Command Posts, Available Equipment:*

*Communications Problems:* Cell phone communications are limited.

*Additional Operational Comments:* Protect the Marine Protected Area (MPA) boundaries.



Imagery: NAIP 2010 (Summer) 4-Band

**4-572-B Site Summary - San Augustine Creek****4-572-B****County :** Santa Barbara **ACP Division/Segment :** SB - H - S06**NOAA Chart :** 18721**Map Book :** 365 F x 7**Decimal Degrees :** 34.4585 -120.3556**Site Description:**

San Augustine Creek, is on Hollister Ranch Property. The site extends up the watershed from the culvert discharge point, on the beach, to the culverts on the main road east of MP18. Should the oil line leak within this watershed, oil would contaminate the stock pond, marsh, riparian habitat and would enter the ocean through the beach culvert. The Southern Pacific Railroad passes over this creek. This site occurs on Hollister ranch property. This is an intermittent creek that has no sensitive aquatic or estuarine habitat seaward of the culvert, however a freshwater marsh and willow riparian habitats exist immediately upstream of the RR track. Whenever the creek is open, creek biota and a small coastal brackish wetland are at risk. Willow-riparian woodland surrounded by coastal sage scrub. Seabirds and marine mammals are found offshore.

**Resources at Risk:***ESI and Habitat:* 10A Salt - and brackish-water marshes

9B Vegetated low banks

3A Fine- to medium-grained sand beaches

**List of Resources at Risk:**

|            | <b>Resource Name</b>       | <b>Status</b> | <b>Presence</b> |
|------------|----------------------------|---------------|-----------------|
| Amphibians | California red-legged frog | FT            | Year-round      |
| Birds      | Western snowy plover       | FT            | Year-round      |
| Mammals    | Southern sea otter         | FT, SP        | Year-round      |
| Plants     | Gaviota tarplant           | FE, SE        | Year-round      |
| Reptiles   | southwestern pond turtle   | SSC           | Year-round      |

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

| <b>Type</b> | <b>Name/Title</b>           | <b>Organization</b>                               | <b>Phone</b>   |
|-------------|-----------------------------|---|----------------|
| C           | /                           | Central Coast Archeological Information Center    | (805) 893-2474 |
| C           | /                           | Native American Heritage Commission               | (916) 373-3710 |
| E           | Ranch Gate/24 hour number   | Hollister Ranch Owners Association                | (805) 567-5016 |
| E           | Josh Farberow/Ranch Manager | Hollister Ranch Owners Association                | (805) 567-5020 |
| T           | /                           | US Fish and Wildlife Service, Federal T&E Species | (805) 644-1766 |

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

Western snowy plovers nest from Mar-Sep.

**Concerns and Advice to Responders:**

The lagoon is habitat for sensitive species. Animals and habitat can be injured by oil and response/cleanup activities unless responders minimize disturbance in stream, lagoon, and associated vegetation; avoid trampling oil into sediments; and follow protective conditions from IC and resource biologists.

**Hazard and Restrictions:**

Unhealthy levels of coliform bacteria have been found intermittently in streams and on beaches in this area. Use appropriate PPE, safety procedures, and include reference to potential health problems in any site safety plan.

**Site Strategies:****Strategy: 4-572.1 Objective:** Build Sandbag Dam

*Strategy:* Build a sandbag exclusion/containment dam using onsite materials or imported materials as directed by CDFW biologist. Use clean low silt content sand. If using onsite materials obtain only from un-vegetated areas and have a cultural specialist onsite to monitor. Install underflow pipes and/or a spillway to regulate water flows as conditions dictate. Closely regulate water levels to reduce collateral oiling. If there is recoverable oil on-water, deploy sorbents and contact the IC immediately regarding the use of skimmers.

Table of Response Resources

| Equipment | Sub-Type     | Size | Unit | QTY | Unit | Last Page Update |
|-----------|--------------|------|------|-----|------|------------------|
| Boom      | Sorbent Boom |      |      | 15  | feet |                  |
| Staff     |              |      |      | 5   |      |                  |
| Vehicle   | ATV          |      |      | 1   |      |                  |
| Sandbags  |              |      |      | 20  |      |                  |

**Strategy: 4-572.2 Objective:** Erect Filter Fence

*Strategy:* Construct a filter fence across the front of the channel where the inlet is narrowest, water flows are low or dry, the ground can receive and hold metal stakes, and the spill is heavy oil. Monitor barrier and replace pom-poms as necessary to maintain effectiveness.

Table of Response Resources

| Equipment | Sub-Type             | Size    | Unit   | QTY | Unit  | Last Page Update |
|-----------|----------------------|---------|--------|-----|-------|------------------|
| Fence     | Construction Fencing | 4 x 100 |        | 15  | Rolls |                  |
| Misc.     | Oil Snare (pom-pom)  |         |        | 30  |       |                  |
| stakes    | T-posts              |         | 6 feet | 10  |       |                  |
| Vehicle   | ATV                  |         |        | 1   |       |                  |
| Staff     |                      |         |        | 5   |       |                  |

**Logistics:**

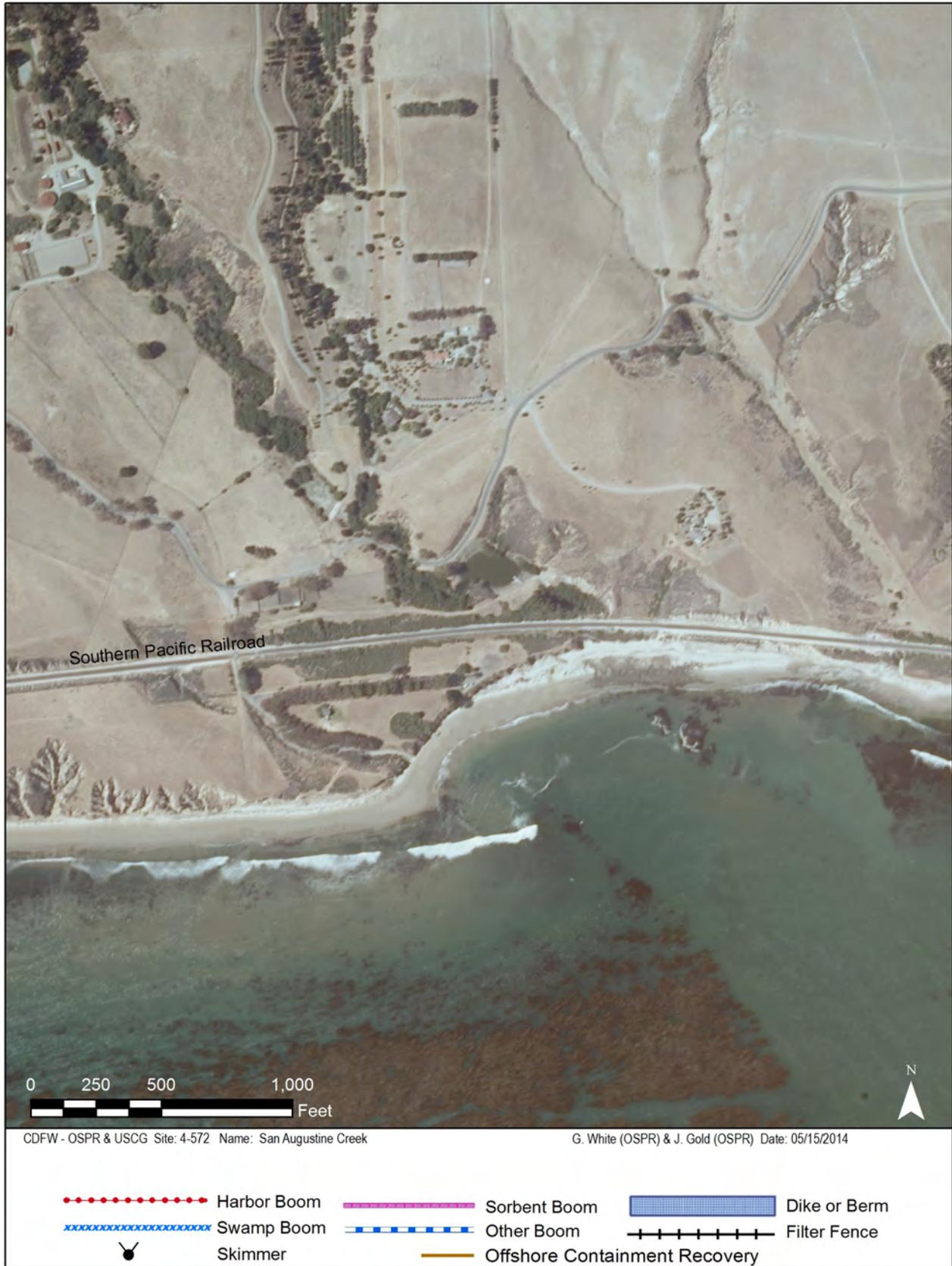
*Directions:* Drive along the 101 Highway and exit at Gaviota State Park. Drive for about a 0.25 mile and then take a right before the State Park toll booth. Drive along the Hollister Ranch Road and past the entrance gate for about 8 miles.

*Land Access:* Access can be obtained at the entrance of Gaviota State Park/Hollister Ranch Gatehouse at 805-567-5016 or through the ranch manager at 805-567-5020.

*On-Water Limitations:* Santa Barbara Harbor is the nearest full service civilian harbor for full service berthing, launching and fueling.

*Facilities, Staging Areas, Command Posts, Available Equipment:* Staging area in parking lot on bluffs above beach.

*Communications Problems:*



Imagery: NAIP 2010 (Summer) 4-Band

**4-575-A Site Summary - Arroyo El Bulito****4-575-A****County :** Santa Barbara **ACP Division/Segment :** SB - H - S07**NOAA Chart :** 18721**Map Book :** 365 G x 7**Decimal Degrees :** 34.4625 -120.3329**Site Description:**

Large drainage culvert with a standing water pond on the upper beach (could be a wash-over terrace) approx. 1/10 acre. Vegetation is primarily bermuda grass. Fine-to-medium grained sand beach to east and west of site. The Southern Pacific Railroad passes over this creek. This site occurs on Hollister ranch property. Shorebird and rocky intertidal habitat occur at this site. Wetland biota at risk when the wetland is open to the ocean. Willow riparian woodland occurs along the creek.

**Resources at Risk:***ESI and Habitat:* 10A Salt - and brackish-water marshes

9B Vegetated low banks

3A Fine- to medium-grained sand beaches

**List of Resources at Risk:**

|               | <b>Resource Name</b>       | <b>Status</b> | <b>Presence</b> |
|---------------|----------------------------|---------------|-----------------|
| Birds         | Western snowy plover       | FT            | Year-round      |
| Fish          | tidewater goby             | FE            | Year-round      |
| Invertebrates | rocky intertidal resources |               | Year-round      |
| Plants        | Gaviota tarplant           | FE, SE        | Year-round      |

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

| <b>Type</b> | <b>Name/Title</b>           | <b>Organization</b>                               | <b>Phone</b>   |
|-------------|-----------------------------|---|----------------|
| C           | /                           | Central Coast Archeological Information Center    | (805) 893-2474 |
| C           | /                           | Native American Heritage Commission               | (916) 373-3710 |
| E           | Ranch Gate/24 hour number   | Hollister Ranch Owners Association                | (805) 567-5016 |
| E           | Josh Farberow/Ranch Manager | Hollister Ranch Owners Association                | (805) 567-5020 |
| T           | /                           | US Fish and Wildlife Service, Federal T&E Species | (805) 644-1766 |

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

Western snowy plovers nest from Mar-Sep.

**Concerns and Advice to Responders:**

The lagoon is habitat for sensitive species. Animals and habitat can be injured by oil and response/cleanup activities unless responders minimize disturbance in stream, lagoon, and associated vegetation; avoid trampling oil into sediments; and follow protective conditions from IC and resource biologists.

**Hazard and Restrictions:**

Unhealthy levels of coliform bacteria have been found intermittently in streams and on beaches in this area. Use appropriate PPE, safety procedures, and include reference to potential health problems in any site safety plan.

**Site Strategies:****Strategy: 4-575.1 Objective:** Exclude Oil

*Strategy:* Deploy exclusion booms across the inlet to minimize the likelihood of oiling the estuary. Place the booms in a configuration that forms an adjustable oil collection pocket that can accommodate changes in flow direction. Back exclusion booms with sorbent booms to minimize leakage. Line the shorelines and any side channels within the inlet to prevent collateral oiling. If there is recoverable oil on-water, deploy sorbents and contact the IC immediately regarding the use of skimmers. Monitor, adjust, and replace booms as needed to maintain effectiveness.

Table of Response Resources

| Equipment | Sub-Type     | Size | Unit | QTY | Unit | Last Page Update |
|-----------|--------------|------|------|-----|------|------------------|
| Boom      | Swamp Boom   |      |      | 100 | feet |                  |
| Boom      | Sorbent Boom |      |      | 100 | feet |                  |
| Vehicle   | ATV          |      |      | 1   |      |                  |
| Staff     |              |      |      | 5   |      |                  |
| Anchor    |              |      |      | 2   |      |                  |

**Strategy: 4-575.2 Objective:** Build Sandbag Dam

*Strategy:* Build a sandbag exclusion/containment dam using onsite materials or imported materials as directed by CDFW biologist. Use clean low silt content sand. If using onsite materials obtain only from un-vegetated areas and have a cultural specialist onsite to monitor. Install underflow pipes and/or a spillway to regulate water flows as conditions dictate. Closely regulate water levels to reduce collateral oiling. If there is recoverable oil on-water, deploy sorbents and contact the IC immediately regarding the use of skimmers.

Table of Response Resources

| Equipment | Sub-Type     | Size | Unit | QTY | Unit | Last Page Update |
|-----------|--------------|------|------|-----|------|------------------|
| Boom      | Sorbent Boom |      |      | 40  | feet |                  |
| Staff     |              |      |      | 5   |      |                  |
| Vehicle   | ATV          |      |      | 1   |      |                  |
| Sandbags  |              |      |      | 100 |      |                  |

**Strategy: 4-575.3 Objective:** Erect Filter Fence

*Strategy:* Construct a filter fence across the front of the channel where the inlet is narrowest, water flows are low or dry, the ground can receive and hold metal stakes, and the spill is heavy oil. Monitor barrier and replace pom-poms as necessary to maintain effectiveness.

## Table of Response Resources

| Equipment | Sub-Type             | Size         | Unit   | QTY | Unit  | Last Page Update |
|-----------|----------------------|--------------|--------|-----|-------|------------------|
| Fence     | Construction Fencing | 4 x 100 feet |        | 1   | Rolls |                  |
| Misc.     | Oil Snare (pom-pom)  |              |        | 60  |       |                  |
| stakes    | T-posts              |              | 6 feet | 20  |       |                  |
| Misc.     | Stake Driver         |              |        | 1   |       |                  |
| Vehicle   | ATV                  |              |        | 1   |       |                  |
| Staff     |                      |              |        | 5   |       |                  |

**Logistics:**

*Directions:* Rancho Real to Bulito Beach access, drive across the railroad tracks. Excavating equipment can access beach through the road.

*Land Access:* Access from paved road entrance at Gaviota State Park/Hollister Ranch Gatehouse at 805-567-5016 or through the ranch manager at 805-567-5020.

*On-Water Limitations:* Santa Barbara Harbor is the nearest full service civilian harbor for full service berthing, launching and fueling.

*Facilities, Staging Areas, Command Posts, Available Equipment:* Nearest water and restroom facilities are approximately 2 miles west at St. Augustine Beach.

*Communications Problems:* Cell phone communications are limited.



Imagery: NAIP 2010 (Summer) 4-Band

**4-580-A Site Summary - Canada De Santa Anita (Creek)****4-580-A****County :** Santa Barbara **ACP Division/Segment :** SB - H - S07 SB - H - S08**NOAA Chart :** 18721**Map Book :** 365 G x 7**Decimal Degrees :**34.46748 -120.3063**Site Description:**

This site extends 100 yards SE and NW from the centerline of the creek. The mouth of Santa Anita creek is approximately 9 miles east of Point Conception. This is a moderate sized creek with a well-developed wetland. To the east and west of the inlet are sand beaches. This site occurs on Hollister Ranch property. The Southern Pacific Railroad passes over this creek. Numerous seabirds (including brown pelicans), shorebirds, waterfowl and raptors are present. Whenever the creek mouth is open, wetland biota are at risk. Extensive rocky intertidal habitat and kelp beds are offshore.

**Resources at Risk:***ESI and Habitat:* 10A Salt - and brackish-water marshes

9B Vegetated low banks

3A Fine- to medium-grained sand beaches

**List of Resources at Risk:**

|               | <b>Resource Name</b>            | <b>Status</b> | <b>Presence</b> |
|---------------|---------------------------------|---------------|-----------------|
| Amphibians    | California red-legged frog      | FT            | Year-round      |
| Birds         | Western snowy plover            | FT            | Year-round      |
| Fish          | steelhead - Southern California | FE            | Year-round      |
| Fish          | tidewater goby                  | FE            | Year-round      |
| Invertebrates | rocky intertidal resources      |               | Year-round      |
| Invertebrates | kelp forests                    |               | Year-round      |
| Mammals       | Southern sea otter              | FT, SP        | Year-round      |
| Plants        | Gaviota tarplant                | FE, SE        | Year-round      |
| Reptiles      | southwestern pond turtle        | SSC           | Year-round      |

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

| <b>Type</b> | <b>Name/Title</b>             | <b>Organization</b>                            | <b>Phone</b>   |
|-------------|-------------------------------|--|----------------|
| C           | /                             | Central Coast Archeological Information Center | (805) 893-2474 |
| C           | /                             | Native American Heritage Commission            | (916) 373-3710 |
| E           | Ranch Gate/24 hour number     | Hollister Ranch Owners Association             | (805) 567-5016 |
| E           | Josh Farberow/Ranch Manager   | Hollister Ranch Owners Association             | (805) 567-5020 |
| T           | Mary Larson/Steelhead         | California Department of Fish & Wildlife       | (562) 537-8624 |
| T           | Rick Bush/Fisheries Biologist | NOAA National Marine Fisheries Service         | (562) 980-3562 |

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

Western snowy plovers nest from Mar-Sep.

**Concerns and Advice to Responders:**

The lagoon and stream provide habitat for both sensitive and T/E species (fishes, amphibians, reptiles) which can be killed or injured by oil, response and clean-up activities. Responders should minimize disturbances in the stream, lagoon, and associated vegetation and avoid trampling oil into the sediments. Protective conditions should be followed from the IC and resource biologists.

**Hazard and Restrictions:**

Access and exits to and from beaches are related to tides and beach sand levels- YOU MAY GET STRANDED ON THE BEACH - Plan accordingly.

**Site Strategies:****Strategy: 4-580.1 Objective:** Exclude Oil

*Strategy:* Deploy exclusion booms across the inlet to minimize the likelihood of oiling the estuary. Place the booms in a configuration that forms an adjustable oil collection pocket that can accommodate changes in flow direction. Back exclusion booms with sorbent booms to minimize leakage. Line the shorelines and any side channels within the inlet to prevent collateral oiling. If there is recoverable oil on-water, deploy sorbents and contact the IC immediately regarding the use of skimmers. Monitor, adjust, and replace booms as needed to maintain effectiveness.

Table of Response Resources

| Equipment | Sub-Type     | Size | Unit | QTY | Unit | Last Page Update   |
|-----------|--------------|------|------|-----|------|--|
| Boom      | Swamp Boom   |      |      | 200 | feet | <i>Strategy Updated:</i><br><i>Last Test: 11/10/2016</i> |
| Boom      | Sorbent Boom |      |      | 200 | feet |  |
| Vehicle   | ATV          |      |      | 1   |      |  |
| Staff     | Staff        |      |      | 5   |      |  |
| Anchor    |              |      |      | 4   |      |  |

**Strategy: 4-580.2 Objective:** Erect Filter Fence

*Strategy:* Construct a filter fence across the front of the channel where the inlet is narrowest, water flows are low or dry, the ground can receive and hold metal stakes, and the spill is heavy oil. Monitor barrier and replace pom-poms as necessary to maintain effectiveness.

Table of Response Resources

| Equipment | Sub-Type             | Size         | Unit   | QTY | Unit  | Last Page Update   |
|-----------|----------------------|--------------|--------|-----|-------|--|
| Fence     | Construction Fencing | 4 x 100 feet |        | 4   | Rolls | <i>Strategy Updated:</i><br><i>Last Test: 11/10/2016</i> |
| Misc.     | Oil Snare (pom-pom)  |              |        | 200 |       |  |
| stakes    | T-posts              |              | 6 feet | 80  |       |  |
| Misc.     | Stake Driver         |              |        | 1   |       |  |
| Vehicle   | ATV                  |              |        | 1   |       |  |
| Staff     |                      |              |        | 5   |       |  |

**Strategy: 4-580.3 Objective:** Build Sandbag Dam

*Strategy:* Build a sandbag exclusion/containment dam using onsite materials or imported materials as directed by CDFW biologist. Use clean low silt content sand. If using onsite materials obtain only from un-vegetated areas and have a cultural specialist onsite to monitor. Install underflow pipes and/or a spillway to regulate water flows as conditions dictate. Closely regulate water levels to reduce collateral oiling. If there is recoverable oil on-water, deploy sorbents and contact the IC immediately regarding the use of skimmers.

## Table of Response Resources

| Equipment | Sub-Type     | Size | Unit | QTY | Unit | Last Page Update |
|-----------|--------------|------|------|-----|------|------------------|
| Boom      | Sorbent Boom |      |      | 200 | feet |                  |
| stakes    |              |      |      | 20  |      |                  |
| Staff     |              |      |      | 5   |      |                  |
| Vehicle   | ATV          |      |      | 1   |      |                  |
| Sandbags  |              |      |      | 150 |      |                  |

**Logistics:**

*Directions:* Take Rancho Real Road to Drake Beach Road, travel approximately 1/4 mile to the parking area. This site is on private Property. Contact Hollister Ranch Owners Association at (805) 567-5016 or the ranch manager at (805) 567-5020. Vehicles can access the beach near the creek mouth through a road just south of the site.

*Land Access:* Vehicular access to the beach is subject to sand levels and tides.

*On-Water Limitations:* Santa Barbara Harbor is the nearest full service civilian harbor for full service berthing, launching and fueling.

*Facilities, Staging Areas, Command Posts, Available Equipment:* Nearest water and restroom facilities are approximately 4 miles west at San Augustine beach.

*Communications Problems:* Cell phone communications are limited.

*Additional Operational Comments:* Due to the probable occurrence of western snowy plovers and/or California least terns at this site, please review the Sandy Beach Site Summary and Strategies (Site 4-000-A) for information on response operations when dealing with these sensitive species.



**4-585-A Site Summary - Canada De Alegria****4-585-A****County :** Santa Barbara **ACP Division/Segment :** SB - H - S08 SB - H - S09**NOAA Chart :** 18721**Map Book :** 365 G x 7**Decimal Degrees :** 34.46922 -120.27215**Site Description:**

This site includes 100 yards east and west of the mouth of Canada de Alegria. Mouth of Canada de Alegria Creek is approximately 11 miles east of Point Conception. The creek mouth is usually closed during dry months. To the east and west are medium to coarse-grained sand beaches with cobble/boulder storm berms, sea walls, and wave-cut rock platforms that are backed by bluffs. The Southern Pacific Railroad passes over this creek. This site occurs on Hollister ranch property. Whenever the creek mouth is open, wetland biota are at risk. This site has an abundance of seabirds (including brown pelicans), shorebirds, waterfowl and raptors.

**Resources at Risk:***ESI and Habitat:* 10A Salt - and brackish-water marshes

9B Vegetated low banks

5 Mixed sand and gravel beaches

3A Fine- to medium-grained sand beaches

2A Exposed wave-cut platforms in bedrock, mud, or clay

1B Exposed solid man-made structures

**List of Resources at Risk:**

|            | <b>Resource Name</b>            | <b>Status</b> | <b>Presence</b> |
|------------|---------------------------------|---------------|-----------------|
| Amphibians | California red-legged frog      | FT            | Year-round      |
| Birds      | Western snowy plover            | FT            | Year-round      |
| Fish       | steelhead - Southern California | FE            | Year-round      |
| Fish       | tidewater goby                  | FE            | Year-round      |
| Mammals    | Southern sea otter              | FT, SP        | Year-round      |
| Plants     | Gaviota tarplant                | FE, SE        | Year-round      |

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

| <b>Type</b> | <b>Name/Title</b>             | <b>Organization</b>                               | <b>Phone</b>   |
|-------------|-------------------------------|---|----------------|
| C           | /                             | Central Coast Archeological Information Center    | (805) 893-2474 |
| C           | /                             | Native American Heritage Commission               | (916) 373-3710 |
| E           | Ranch Gate/24 hour number     | Hollister Ranch Owners Association                | (805) 567-5016 |
| E           | Josh Farberow/Ranch Manager   | Hollister Ranch Owners Association                | (805) 567-5020 |
| T           | Mary Larson/Steelhead         | California Department of Fish & Wildlife          | (562) 537-8624 |
| T           | Rick Bush/Fisheries Biologist | NOAA National Marine Fisheries Service            | (562) 980-3562 |
| T           | /                             | US Fish and Wildlife Service, Federal T&E Species | (805) 644-1766 |

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

Western snowy plovers nest from Mar-Sep.

**Concerns and Advice to Responders:**

The lagoon and stream provide habitat for both sensitive and T/E species (fishes, amphibians, reptiles) which can be killed or injured by oil and response/cleanup activities unless responders minimize disturbance in stream, lagoon, and associated vegetation, avoid trampling oil into sediments; and follow protective conditions from IC and resource biologists.

**Hazard and Restrictions:**

A. Unhealthy levels of coliform bacteria have been found intermittently in streams and on beaches in this area. Use appropriate PPE, safety procedures, and include reference to potential health problems in any site safety plan.

B. Safety Considerations- Roads, trails, beach cliffs and hillsides may be unstable in wet weather. Beware of flashfloods in canyons during rainy weather, ticks, poison oak, and rattlesnakes. Beware of trains at unregulated Railroad Crossings. Care must be taken when working on beaches backed by high cliffs. Safe entries to, and exits from beaches in this area are related to tides and beach sand levels- YOU MAY GET STRANDED ON THE BEACH - Plan accordingly.

**Site Strategies:****Strategy: 4-585.1 Objective:** Exclude Oil

*Strategy:* Deploy exclusion booms across the inlet to minimize the likelihood of oiling the estuary. Place the booms in a configuration that forms an adjustable oil collection pocket that can accommodate changes in flow direction. Back exclusion booms with sorbent booms to minimize leakage. Line the shorelines and any side channels within the inlet to prevent collateral oiling. If there is recoverable oil on-water, deploy sorbents and contact the IC immediately regarding the use of skimmers. Monitor, adjust, and replace booms as needed to maintain effectiveness.

Table of Response Resources

| Equipment | Sub-Type     | Size | Unit | QTY | Unit | Last Page Update |
|-----------|--------------|------|------|-----|------|------------------|
| Boom      | Swamp Boom   |      |      | 200 | feet |                  |
| Boom      | Sorbent Boom |      |      | 200 | feet |                  |
| Vehicle   | ATV          |      |      | 1   |      |                  |
| Staff     |              |      |      | 5   |      |                  |
| Anchor    |              |      |      | 4   |      |                  |

**Strategy: 4-585.2 Objective:** Build Sandbag Dam

*Strategy:* Build a sandbag exclusion/containment dam using onsite materials or imported materials as directed by CDFW biologist. Use clean low silt content sand. If using onsite materials obtain only from un-vegetated areas and have a cultural specialist onsite to monitor. Install underflow pipes and/or a spillway to regulate water flows as conditions dictate. Closely regulate water levels to reduce collateral oiling. If there is recoverable oil on-water, deploy sorbents and contact the IC immediately regarding the use of skimmers.

Table of Response Resources

| Equipment | Sub-Type     | Size | Unit | QTY | Unit | Last Page Update |
|-----------|--------------|------|------|-----|------|------------------|
| Boom      | Sorbent Boom |      |      | 200 | feet |                  |
| stakes    |              |      |      | 20  |      |                  |
| Staff     |              |      |      | 5   |      |                  |
| Vehicle   | ATV          |      |      | 1   |      |                  |
| Sandbags  |              |      |      | 150 |      |                  |

**Strategy: 4-585.3 Objective:** Erect Filter Fence

*Strategy:* Construct a filter fence across the front of the channel where the inlet is narrowest, water flows are low or dry, the ground can receive and hold metal stakes, and the spill is heavy oil. Monitor barrier and replace pom-poms as necessary to maintain effectiveness.

## Table of Response Resources

| Equipment | Sub-Type             | Size         | Unit   | QTY | Unit  | Last Page Update |
|-----------|----------------------|--------------|--------|-----|-------|------------------|
| Fence     | Construction Fencing | 4 x 100 feet |        | 4   | Rolls |                  |
| Misc.     | Oil Snare (pom-pom)  |              |        | 200 |       |                  |
| stakes    | T-posts              |              | 6 feet | 20  |       |                  |
| Misc.     | Stake Driver         |              |        | 1   |       |                  |
| Vehicle   | ATV                  |              |        | 1   |       |                  |
| Staff     |                      |              |        | 5   |       |                  |

**Logistics:**

*Directions:* From U.S. 101 (appx 30 miles west of Santa Barbara) take Gaviota state park exit to Rancho Real road, approximately 2 miles to "De Alegria" sign.

*Land Access:* Access from paved road entrance at Gaviota State Park/Hollister Ranch Gatehouse at 805-567-5016 or through the ranch manager at 805-567-5020.

*On-Water Limitations:* Santa Barbara Harbor is the nearest full service civilian harbor for full service berthing, launching and fueling.

*Facilities, Staging Areas, Command Posts, Available Equipment:* There is a paved access road to the parking area at the beach.

*Communications Problems:* Cell phone communications is limited.

*Additional Operational Comments:* Due to the probable occurrence of western snowy plovers and/or California least terns at this site, please review the Sandy Beach Site Summary and Strategies (Site 4-000-A) for information on response operations when dealing with these sensitive species.



Imagery: NAIP 2010 (Summer) 4-Band

**4-590-A Site Summary - Canada Del Agua Caliente****4-590-A****County :** Santa Barbara **ACP Division/Segment :** SB - H - S09

SB - H - S10

**NOAA Chart :** 18721**Map Book :** 365 H x 7**Decimal Degrees :** 34.4681 -120.2525**Site Description:**

This beach portion of the site is bounded on both the west and east by steep rocky cliffs. The lagoon and stream are seasonal. The Southern Pacific Railroad passes over this creek. This site occurs on Hollister ranch property. Numerous shorebirds, seabirds (including brown pelicans) and raptors are present.

**Resources at Risk:***ESI and Habitat:* 10A Salt - and brackish-water marshes

9B Vegetated low banks

3A Fine- to medium-grained sand beaches

**List of Resources at Risk:**

|            | <b>Resource Name</b>       | <b>Status</b> | <b>Presence</b> |
|------------|----------------------------|---------------|-----------------|
| Amphibians | California red-legged frog | FT            | Year-round      |
| Birds      | Western snowy plover       | FT            | Year-round      |
| Fish       | tidewater goby             | FE            | Year-round      |
| Mammals    | Southern sea otter         | FT, SP        | Year-round      |
| Plants     | Gaviota tarplant           | FE, SE        | Year-round      |
| Reptiles   | southwestern pond turtle   | SSC           | Year-round      |

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

| <b>Type</b> | <b>Name/Title</b>           | <b>Organization</b>                               | <b>Phone</b>   |
|-------------|-----------------------------|---|----------------|
| C           | /                           | Central Coast Archeological Information Center    | (805) 893-2474 |
| C           | /                           | Native American Heritage Commission               | (916) 373-3710 |
| E           | Ranch Gate/24 hour number   | Hollister Ranch Owners Association                | (805) 567-5016 |
| E           | Josh Farberow/Ranch Manager | Hollister Ranch Owners Association                | (805) 567-5020 |
| T           | /                           | US Fish and Wildlife Service, Federal T&E Species | (805) 644-1766 |

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

Western snowy plovers nest from Mar-Sep.

**Concerns and Advice to Responders:**

The lagoon and stream provide habitat for both sensitive and T/E species (fishes, amphibians, reptiles) which can be killed or injured by oil and response/cleanup activities unless responders minimize disturbance in stream, lagoon, and associated vegetation, avoid trampling oil into sediments; and follow protective conditions from IC and resource biologists.

Two pipelines (a 24-inch oil line and a 20-inch natural gas line) transit the area north of the RR track. They run 18 miles from the Jalama coast to the Freeport-McMoRan plant near Gaviota.

**Hazard and Restrictions:**

Access and exits to/from beaches are related to tides and beach sand levels- YOU MAY GET STRANDED ON THE BEACH - Plan accordingly.

**Site Strategies:****Strategy: 4-590.1 Objective:** Exclude Oil

*Strategy:* Deploy exclusion booms across the inlet to minimize the likelihood of oiling the estuary. Place the booms in a configuration that forms an adjustable oil collection pocket that can accommodate changes in flow direction. Back exclusion booms with sorbent booms to minimize leakage. Line the shorelines and any side channels within the inlet to prevent collateral oiling. If there is recoverable oil on-water, deploy sorbents and contact the IC immediately regarding the use of skimmers. Monitor, adjust, and replace booms as needed to maintain effectiveness.

Table of Response Resources

| Equipment | Sub-Type     | Size | Unit | QTY | Unit | Last Page Update |
|-----------|--------------|------|------|-----|------|------------------|
| Boom      | Swamp Boom   |      |      | 200 | feet |                  |
| Boom      | Sorbent Boom |      |      | 200 | feet |                  |
| Vehicle   | ATV          |      |      | 1   |      |                  |
| Staff     |              |      |      | 5   |      |                  |
| Anchor    |              |      |      | 4   |      |                  |

**Strategy: 4-590.2 Objective:** Build Sandbag Dam

*Strategy:* Build a sandbag exclusion/containment dam using onsite materials or imported materials as directed by CDFW biologist. Use clean low silt content sand. If using onsite materials obtain only from un-vegetated areas and have a cultural specialist onsite to monitor. Install underflow pipes and/or a spillway to regulate water flows as conditions dictate. Closely regulate water levels to reduce collateral oiling. If there is recoverable oil on-water, deploy sorbents and contact the IC immediately regarding the use of skimmers.

Table of Response Resources

| Equipment | Sub-Type     | Size | Unit | QTY | Unit | Last Page Update |
|-----------|--------------|------|------|-----|------|------------------|
| Boom      | Sorbent Boom |      |      | 200 | feet |                  |
| stakes    |              |      |      | 20  |      |                  |
| Staff     |              |      |      | 5   |      |                  |
| Vehicle   | ATV          |      |      | 1   |      |                  |
| Sandbags  |              |      |      | 150 |      |                  |

**Strategy: 4-590.3 Objective:** Erect Filter Fence

*Strategy:* Construct a filter fence across the front of the channel where the inlet is narrowest, water flows are low or dry, the ground can receive and hold metal stakes, and the spill is heavy oil. Monitor barrier and replace pom-poms as necessary to maintain effectiveness.

## Table of Response Resources

| Equipment       | Sub-Type             | Size         | Unit | QTY | Unit  | Last Page Update |
|-----------------|----------------------|--------------|------|-----|-------|------------------|
| Fence           | Construction Fencing | 4 x 100 feet |      | 4   | Rolls |                  |
| Misc.<br>stakes | Oil Snare (pom-pom)  |              |      | 200 |       |                  |
| Misc.           | Stake Driver         |              |      | 20  |       |                  |
| Vehicle         | ATV                  |              |      | 1   |       |                  |
| Staff           |                      |              |      | 1   |       |                  |
|                 |                      |              |      | 5   |       |                  |

**Logistics:**

*Directions:* From Rancho Real road take Aqua Caliente Road. Parking lot near creek mouth and beach provide access for foot traffic; storm berm and railroad trestle may limit or restrict vehicular traffic.

*Land Access:* Access from paved road entrance at Gaviota State Park/Hollister Ranch Gatehouse at 805-567-5016 or through the ranch manager at 805-567-5020.

*On-Water Limitations:* Santa Barbara Harbor is the nearest full service civilian harbor for full service berthing, launching and fueling.

*Facilities, Staging Areas, Command Posts, Available Equipment:*

*Communications Problems:* Cell phone cummications are limited.

*Additional Operational Comments:* California Department of Fish and Wildlife must be consulted before the staging of motorized equipment and heavy traffic are permitted.



Imagery: NAIP 2016

**4-601-A Site Summary - Gaviota Creek****4-601-A****County :** Santa Barbara **ACP Division/Segment :** SB - I - S01**NOAA Chart :** 18721**Map Book :** 365 H x 7**Decimal Degrees :**34.4705 -120.227**Site Description:**

This site is located in Gaviota State Park. It is bounded on the west by the Gaviota pier and on the east by the coastal cliffs. The site extends upstream (north) to the entry road crossing just north of the entry kiosk. Gaviota Creek is the largest perennial creek in the area and is open to the ocean most of the year. There is a modest sized freshwater and coastal salt marsh near the creek mouth. Beaches are typically fine to medium-grained sand in the summer and mixed sand-gravel in winter. The state beach is a popular recreational area (beach use and fishing from the pier) especially in summer. Kashtayit State Marine Conservation Area is included at this site. Numerous waterfowl, seabirds (including brown pelicans), shorebirds, harbor seals and California sea lions are present. Extensive eel grass beds are at this site. Arroyo chub, two-striped garter snake and coast-range newt may be present.

**Resources at Risk:***ESI and Habitat:* 10A Salt - and brackish-water marshes

9B Vegetated low banks

5 Mixed sand and gravel beaches

3A Fine- to medium-grained sand beaches

**List of Resources at Risk:**

|            | <b>Resource Name</b>            | <b>Status</b> | <b>Presence</b> |
|------------|---------------------------------|---------------|-----------------|
| Amphibians | California red-legged frog      | FT            | Year-round      |
| Fish       | steelhead - Southern California | FE            | Year-round      |
| Fish       | tidewater goby                  | FE            | Year-round      |
| Mammals    | Southern sea otter              | FT, SP        | Year-round      |
| Plants     | Gaviota tarplant                | FE, SE        | Year-round      |
| Reptiles   | southwestern pond turtle        | SSC           | Year-round      |

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

| <b>Type</b> | <b>Name/Title</b>                          | <b>Organization</b>                                | <b>Phone</b>   |
|-------------|--|--|----------------|
| C           | /  | Central Coast Archeological Information Center     | (805) 893-2474 |
| C           | /  | Native American Heritage Commission                | (916) 373-3710 |
| E           | /Emergency                                 | Freeport-McMoRan Oil and Gas                       | (805) 739-9111 |
| T           | Mary Larson/Steelhead                      | California Department of Fish & Wildlife           | (562) 537-8624 |
| T           | Becky Ota/Marine Conservation Manager      | California Department of Fish & Wildlife, MPAs     | (650) 631-6789 |
| T           | Steve Wertz/Senior Environmental Scientist | California Department of Fish and Wildlife, Marine | (562) 343-3808 |
| T           | SURCOM (24-hr)/                            | California State Parks (Dispatch)                  | (951) 443-2969 |
| T           | Rick Bush/Fisheries Biologist              | NOAA National Marine Fisheries Service             | (562) 980-3562 |
| T           | /  | US Fish and Wildlife Service, Federal T&E Species  | (805) 644-1766 |

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

Steelhead movement occurs in the creek December thru May.

**Concerns and Advice to Responders:**

The lagoon and stream provide habitat for both sensitive and T/E species (fishes, amphibians, reptiles) which can be killed or injured by oil and response/cleanup activities unless responders minimize disturbance in stream, lagoon, and associated vegetation, avoid trampling oil into sediments; and follow protective conditions from IC and resource biologists. Two pipelines (a 24-inch oil line and a 20-inch natural gas line) transit the area north of the RR track. They run 18 miles from the Jalama coast to the the Gaviota terminal.

**Hazard and Restrictions:**

Unhealthy levels of coliform bacteria have been found intermittently in streams and on beaches in this area. Use appropriate PPE, safety procedures, and include reference to potential health problems in any site safety plan.

**Site Strategies:**

**Strategy: 4-601.1 Objective:** Exclude Oil

*Strategy:* Deploy exclusion booms across the inlet to minimize the likelihood of oiling the estuary. Place the booms in a configuration that forms an adjustable oil collection pocket that can accommodate changes in flow direction. Back exclusion booms with sorbent booms to minimize leakage. Line the shorelines and any side channels within the inlet to prevent collateral oiling. If there is recoverable oil on-water, deploy sorbents and contact the IC immediately regarding the use of skimmers. Monitor, adjust, and replace booms as needed to maintain effectiveness.

Table of Response Resources

| Equipment | Sub-Type   | Size | Unit | QTY | Unit | Last Page Update |
|-----------|------------|------|------|-----|------|------------------|
| Boom      | Swamp Boom |      |      | 400 | feet |                  |
| Boom      | Sorbent    |      |      | 400 | feet |                  |
| Vehicle   | ATV        |      |      | 1   |      |                  |
| Staff     |            |      |      | 5   |      |                  |
| Anchor    |            |      |      | 8   |      |                  |

**Strategy: 4-601.2 Objective:** Shoreline Pre-Clean: Resource Specialist Supervision Required

*Strategy:* Consult with resource trustees regarding wildlife issues before undertaking this activity. Hand crews to move and store kelp, driftwood, vegetative debris, trash, and other materials above high-tide line. Dispose of trash. Replace unoiled debris in its former location once the threat of oiling is past.

Table of Response Resources

| Equipment | Sub-Type   | Size | Unit | QTY | Unit | Last Page Update |
|-----------|------------|------|------|-----|------|------------------|
| Vehicle   | ATV        |      |      | 1   |      |                  |
| Misc.     | Trash Bags |      |      |     |      |                  |
| Staff     |            |      |      | 5   |      |                  |

**Logistics:**

*Directions:* Access this site from Hwy. 101 (approx. 30 miles north of Santa Barbara) at Gaviota State Park. Good vehicular access to beach and creek mouth from the parking area.

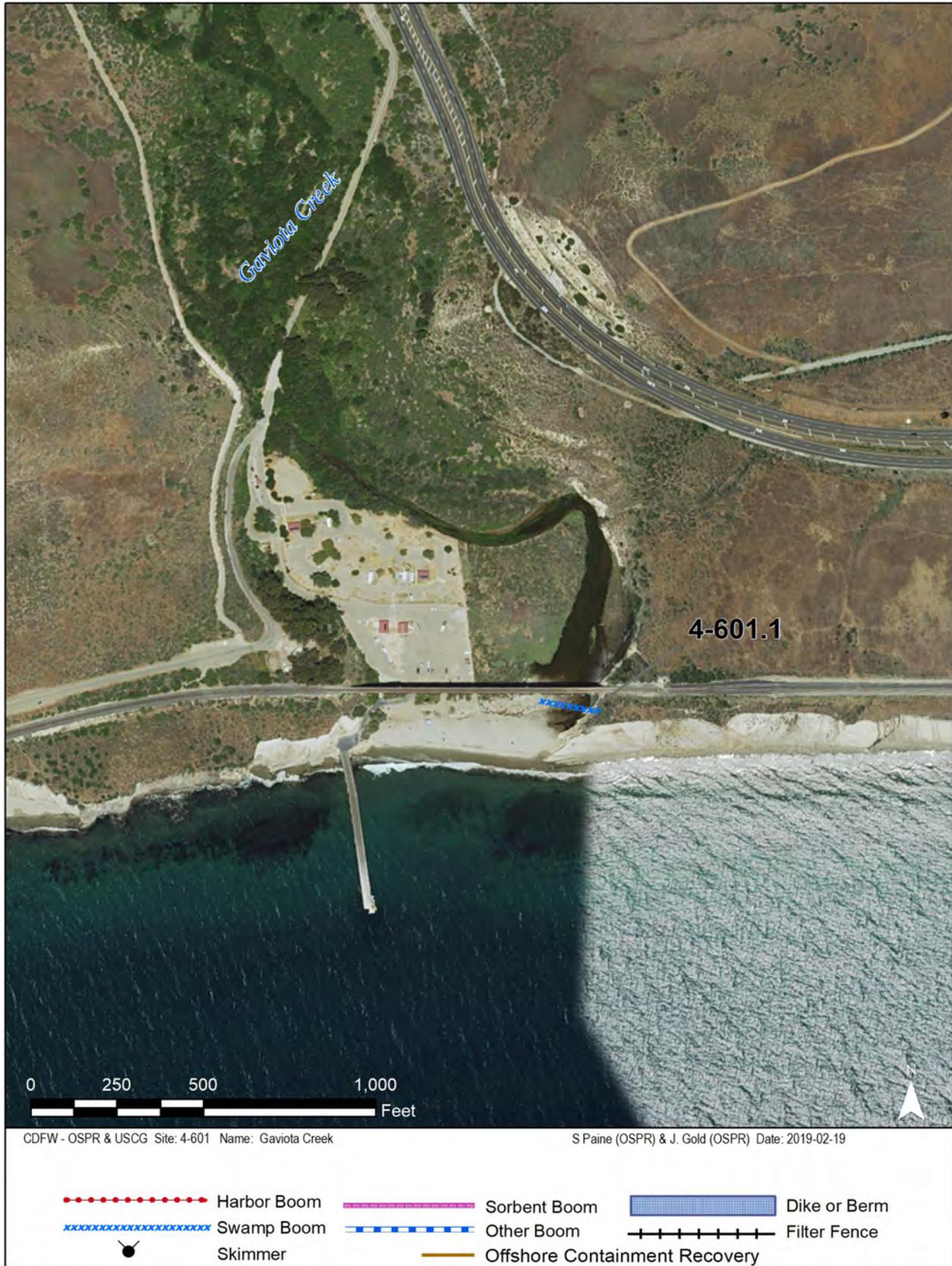
*Land Access:* Access to this site is controlled by California State Parks. Call Surcom at (951) 443-2969.

*On-Water Limitations:* Santa Barbara Harbor is the nearest full service civilian harbor for full service berthing, launching and fueling.

*Facilities, Staging Areas, Command Posts, Available Equipment:* Staging area: Gaviota State Beach parking lot; rest rooms available. Potential command post sites: Field Command Post might be established at the State Beach with consent of Park Department.

*Communications Problems:* none

*Additional Operational Comments:* SPECIAL CONSIDERATIONS: Due to the probable occurrence of western snowy plovers and/or California least terns at this site, please review the Sandy Beach Site Summary and Strategies (Site 4-000-A) for information on response operations when dealing with these sensitive species. Protect the Marine Protected Area (MPA) boundaries.



Imagery: NAIP 2014

**4-605-C Site Summary - Canada Del Alcatraz & Cementario Creeks****4-605-C****County :** Santa Barbara **ACP Division/Segment :** SB - I - S01**NOAA Chart :** 18721**Map Book :** 365 H x 7**Decimal Degrees :**34.470811 -120.206413**Site Description:**

There were two oil facilities in this small watershed. One is located north of Hwy 101 (Freeport-McMoRan) and is still active. The other one is south of Hwy 101 and has been decommissioned. These two intermittent streams flow into the pacific ocean along a small pocket beach. Cementerio Creek is subject to oiling from a marine spill, while Alcatraz Creek is not because it discharges onto the beach through a culvert. Cementerio Creek, at the west side of the pocket beach, has a small intermittent wetland lagoon subject to wave washover. It is a watering spot for monarch butterflies (Mariposa Reina). There are patchy riparian and wetland habitats along these creeks. Seabirds, shorebirds and waterfowl are present on the beach.

**Resources at Risk:***ESI and Habitat:* 10A Salt - and brackish-water marshes

9B Vegetated low banks

3A Fine- to medium-grained sand beaches

**List of Resources at Risk:**

|         | <b>Resource Name</b> | <b>Status</b> | <b>Presence</b> |
|---------|----------------------|---------------|-----------------|
| Birds   | shorebirds           |               | Year-round      |
| Mammals | Southern sea otter   | FT, SP        | Year-round      |

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

| <b>Type</b> | <b>Name/Title</b> | <b>Organization</b>                               | <b>Phone</b>   |
|-------------|-------------------|---|----------------|
| C           | /                 | Central Coast Archeological Information Center    | (805) 893-2474 |
| C           | /                 | Native American Heritage Commission               | (916) 373-3710 |
| E           | /Emergency        | Freeport-McMoRan Oil and Gas                      | (805) 739-9111 |
| T           | /                 | US Fish and Wildlife Service, Federal T&E Species | (805) 644-1766 |

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

**Concerns and Advice to Responders:**

The lagoon is habitat for sensitive species. Animals and habitat can be injured by oil and response/cleanup activities unless responders minimize disturbance in stream, lagoon, and associated vegetation; avoid trampling oil into sediments; and follow protective conditions from IC and resource biologists.

**Hazard and Restrictions:**

Unhealthy levels of coliform bacteria have been found intermittently in streams and on beaches in this area. Use appropriate PPE, safety procedures, and include reference to potential health problems in any site safety plan.

**Site Strategies:****Strategy: 4-605.1 Objective:** Build Sandbag Dam

*Strategy:* Build a sandbag exclusion/containment dam using onsite materials or imported materials as directed by CDFW biologist. Use clean low silt content sand. If using onsite materials obtain only from un-vegetated areas and have a cultural specialist onsite to monitor. Install underflow pipes and/or a spillway to regulate water flows as conditions dictate. Closely regulate water levels to reduce collateral oiling. If there is recoverable oil on-water, deploy sorbents and contact the IC immediately regarding the use of skimmers.

Table of Response Resources

| Equipment | Sub-Type     | Size | Unit | QTY | Unit | Last Page Update |
|-----------|--------------|------|------|-----|------|------------------|
| Boom      | Sorbent Boom |      |      | 40  | feet |                  |
| Staff     |              |      |      | 5   |      |                  |
| Sandbags  |              |      |      | 50  |      |                  |
| Vehicle   | ATV          |      |      | 1   |      |                  |

**Strategy: 4-605.2 Objective:** Erect Filter Fence

*Strategy:* Construct a filter fence across the front of the channel where the inlet is narrowest, water flows are low or dry, the ground can receive and hold metal stakes, and the spill is heavy oil. Monitor barrier and replace pom-poms as necessary to maintain effectiveness.

Table of Response Resources

| Equipment    | Sub-Type             | Size         | Unit | QTY | Unit  | Last Page Update |
|--------------|----------------------|--------------|------|-----|-------|------------------|
| Fence        | Construction Fencing | 4 x 100 feet |      | 1   | Rolls |                  |
| Misc.        | Oil Snare (pom-pom)  |              |      | 40  |       |                  |
| stakes       | T-posts              |              |      | 16  |       |                  |
| Stake driver |                      |              |      | 1   |       |                  |
| Vehicle      | ATV                  |              |      | 1   |       |                  |
| Staff        |                      |              |      | 5   |       |                  |

**Strategy: 4-605.3 Objective:** Shoreline Pre-Clean: Resource Specialist Supervision Required

*Strategy:* Consult with resource trustees regarding wildlife issues before undertaking this activity. Hand crews to move and store kelp, driftwood, vegetative debris, trash, and other materials above high-tide line. Dispose of trash. Replace unoiled debris in its former location once the threat of oiling is past.

Table of Response Resources

| Equipment | Sub-Type   | Size | Unit | QTY | Unit | Last Page Update |
|-----------|------------|------|------|-----|------|------------------|
| Vehicle   | ATV        |      |      | 1   |      |                  |
| Misc.     | Trash Bags |      |      |     |      |                  |
| Staff     |            |      |      | 5   |      |                  |

**Logistics:**

*Directions:* Exit at Mariposa Reina off Hwy 101 for the Freeport-McMorRan facility (north of 101).

*Land Access:*

*On-Water Limitations:* Santa Barbara Harbor is the nearest full service civilian harbor for full service berthing, launching

and fueling.

*Facilities, Staging Areas, Command Posts, Available Equipment:*

*Communications Problems:* none

*Additional Operational Comments:* SPECIAL CONSIDERATIONS: Due to the probable occurrence of western snowy plovers and/or California least terns at this site, please review the Sandy Beach Site Summary and Strategies (Site 4-000-A) for information on response operations when dealing with these sensitive species.



Imagery: NAIP 2010 (Summer) 4-Band

**4-607-A Site Summary - Arroyo Hondo Preserve and Creek****4-607-A****County :** Santa Barbara **ACP Division/Segment :** SB - I - S03**NOAA Chart :** 18721**Map Book :** 365J X 7**Decimal Degrees :**34.474 -120.141**Site Description:**

This creek is owned by the Land Trust for Santa Barbara County. For a marine spill the risk area extends upstream to the upper reaches of the tidal influence. For an inland spill the risk extends upstream of Highway 101 to the oil pipeline crossing of the watershed which is the Plains-All American Coastal Pipeline. There is also a natural gas line that crosses the creek. The railroad trestle also crosses the creek mouth, lagoon and marsh. To the east and west of the creek mouth are cobble beaches. Two striped garter snakes, shorebirds and waterfowl are present. There is evidence of deer, bear and mountain lions in the upper portions of the watershed. Intermittent coastal wetland, estuary and riparian habitat are present.

**Resources at Risk:***ESI and Habitat:* 10A Salt - and brackish-water marshes

9B Vegetated low banks

5 Mixed sand and gravel beaches

3A Fine- to medium-grained sand beaches

**List of Resources at Risk:**

|            | <b>Resource Name</b>            | <b>Status</b> | <b>Presence</b> |
|------------|---------------------------------|---------------|-----------------|
| Amphibians | California red-legged frog      | FT            | Year-round      |
| Fish       | tidewater goby                  | FE            | Year-round      |
| Fish       | steelhead - Southern California | FE            | Year-round      |
| Mammals    | Southern sea otter              | FT, SP        | Year-round      |
| Reptiles   | southwestern pond turtle        | SSC           | Year-round      |

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

| <b>Type</b> | <b>Name/Title</b>             | <b>Organization</b>                               | <b>Phone</b>   |
|-------------|-------------------------------|---|----------------|
| C           | /                             | Central Coast Archeological Information Center    | (805) 893-2474 |
| C           | /                             | Native American Heritage Commission               | (916) 373-3710 |
| E           | /Preserve Manager             | Arroyo Hondo Preserve                             | (805) 567-1115 |
| E           | /Land Manager                 | Land Trust for Santa Barbara County               | (805) 966-4520 |
| T           | Mary Larson/Steelhead         | California Department of Fish & Wildlife          | (562) 537-8624 |
| T           | SURCOM (24-hr)/               | California State Parks (Dispatch)                 | (951) 443-2969 |
| T           | Rick Bush/Fisheries Biologist | NOAA National Marine Fisheries Service            | (562) 980-3562 |
| T           | /                             | US Fish and Wildlife Service, Federal T&E Species | (805) 644-1766 |

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

**Concerns and Advice to Responders:**

The lagoon and stream provide habitat for both sensitive and T/E species which can be killed or injured by oil and response/cleanup activities unless responders minimize disturbance in stream, lagoon and associated vegetation and avoid trampling oil into sediments; and follow protective conditions from IC and resource biologists. There is a beach gate to provide access to the estuary and the code is 1842. Access for the estuary is through a pathway on the east side of the creek. Carrying equipment along the pathway could be hazardous.

**Hazard and Restrictions:**

Unhealthy levels of coliform bacteria have been found intermittently in streams and on beaches in this area. Use appropriate PPE, safety procedures, and include reference to potential health problems in any site safety plan.

**Site Strategies:**

**Strategy: 4-607.1 Objective:** Exclude Oil

*Strategy:* Deploy exclusion booms across the inlet to minimize the likelihood of oiling the estuary. Place the booms in a configuration that forms an adjustable oil collection pocket that can accommodate changes in flow direction. Back exclusion booms with sorbent booms to minimize leakage. Line the shorelines and any side channels within the inlet to prevent collateral oiling. If there is recoverable oil on-water, deploy sorbents and contact the IC immediately regarding the use of skimmers. Monitor, adjust, and replace booms as needed to maintain effectiveness.

Table of Response Resources

| Equipment | Sub-Type     | Size | Unit | QTY | Unit | Last Page Update |
|-----------|--------------|------|------|-----|------|------------------|
| Boom      | Swamp Boom   |      |      | 300 | feet |                  |
| Boom      | Sorbent Boom |      |      | 300 | feet |                  |
| Anchor    |              |      |      | 2   |      |                  |
| Staff     |              |      |      | 5   |      |                  |
| Vehicle   | ATV          |      |      | 1   |      |                  |

**Strategy: 4-607.2 Objective:** Erect Filter Fence

*Strategy:* Construct a filter fence across the front of the channel where the inlet is narrowest, water flows are low or dry, the ground can receive and hold metal stakes, and the spill is heavy oil. Monitor barrier and replace pom-poms as necessary to maintain effectiveness.

Table of Response Resources

| Equipment    | Sub-Type             | Size         | Unit | QTY | Unit  | Last Page Update |
|--------------|----------------------|--------------|------|-----|-------|------------------|
| Fence        | Construction Fencing | 4 x 100 feet |      | 2   | Rolls |                  |
| Misc.        | Oil Snare (pom-pom)  |              |      | 360 |       |                  |
| stakes       | T-posts              |              |      | 20  |       |                  |
| Stake driver |                      |              |      | 1   |       |                  |
| Staff        |                      |              |      | 5   |       |                  |
| Vehicle      | ATV                  |              |      | 1   |       |                  |

**Strategy: 4-607.3 Objective:** Shoreline Pre-Clean: Resource Specialist Supervision Required

**Strategy:** Consult with resource trustees regarding wildlife issues before undertaking this activity. Hand crews to move and store kelp, driftwood, vegetative debris, trash, and other materials above high-tide line. Dispose of trash. Replace unoiled debris in its former location once the threat of oiling is past.

Table of Response Resources

| Equipment | Sub-Type   | Size | Unit | QTY | Unit | Last Page Update |
|-----------|------------|------|------|-----|------|------------------|
| Misc.     | Trash Bags |      |      |     |      |                  |
| Staff     |            |      |      | 5   |      |                  |
| Vehicle   | ATV        |      |      | 1   |      |                  |

### Logistics:

**Directions:** Traveling north on Hwy. 101, the Preserve is approximately 23 miles past La Cumbre Rd. overpass. Approximately 5 miles past Refugio State Beach look for Call Box #101-402 and then after that Call Box #101-412. The driveway is adjacent to Call Box #101-412. Make a sharp right turn from the highway into the Preserve driveway. If the gate is open, come down the driveways, cross the bridge and park by the barn. To Get Back to Santa Barbara: From the top of the driveway, turn right (north). Go 3 miles and exit at Mariposa Reina. Go over the bridge and enter the southbound on-ramp. Traveling south on Hwy. 101, approximately 6 miles past Gaviota State Park and 1/4 mile after the Vista Rest Area, make a U-turn at the Tajiguas Landfill into the northbound lands of Hwy. 101. In a 1/2 mile, make a sharp right turn into the Preserve driveway immediately after the Call Box #101-412.

**Land Access:** Access to this site is controlled by the Land Trust for Santa Barbara County.

**On-Water Limitations:** Santa Barbara Harbor is the nearest full service civilian harbor for berthing, launching and fueling.

**Facilities, Staging Areas, Command Posts, Available Equipment:** There is a good amount of parking at the entrance of the reserve.

**Communications Problems:** none



Imagery: NAIP 2010 (Summer) 4-Band

**4-610-A Site Summary - Refugio Creek****4-610-A****County :** Santa Barbara **ACP Division/Segment :** SB - J - S01**NOAA Chart :** 18721**Map Book :** 981 D x 5**Decimal Degrees :** 34.4631 -120.0696**Site Description:**

Refugio state beach covers 2.7 linear miles of shoreline in the vicinity of the creek mouth. The boundaries of the site on the beach extend east to west the width of the channel. For a marine spill the risk area extends upstream to the upper reaches of tidal influence. For inland spill the risk extends upstream of Highway 101 to the oil pipeline crossing of the watershed. To the east and west of the creek mouth are extensive fine to medium-grained sand beaches in the summer, changing to mixed sand and gravel in the winter. Two-striped gartersnakes are present along with abundant seabirds and shorebirds. There is evidence of deer, bear, and mountain lions in the upper portions of the watershed. Extensive eelgrass beds in the area. Grunion spawning occurs in the spring and summer during high tides.

**Resources at Risk:***ESI and Habitat:* 10A Salt - and brackish-water marshes

9B Vegetated low banks

5 Mixed sand and gravel beaches

3A Fine- to medium-grained sand beaches

**List of Resources at Risk:**

|               | <b>Resource Name</b>       | <b>Status</b> | <b>Presence</b> |
|---------------|----------------------------|---------------|-----------------|
| Amphibians    | California red-legged frog | FT            | Year-round      |
| Birds         | shorebirds                 |               | Year-round      |
| Fish          | tidewater goby             | FE            | Year-round      |
| Fish          | grunion                    |               | Mar-Aug         |
| Invertebrates | kelp forests               |               | Year-round      |
| Mammals       | Southern sea otter         | FT, SP        | Year-round      |
| Reptiles      | southwestern pond turtle   | SSC           | Year-round      |

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

| <b>Type</b> | <b>Name/Title</b>                        | <b>Organization</b>                               | <b>Phone</b>   |
|-------------|--|---|----------------|
| C           | /  | Central Coast Archeological Information Center    | (805) 893-2474 |
| C           | /  | Native American Heritage Commission               | (916) 373-3710 |
| E           | /Central Control Plant Operations (24hr) | ExxonMobil  | (805) 961-4055 |
| T           | SURCOM (24-hr)/                          | California State Parks (Dispatch)                 | (951) 443-2969 |
| T           | /  | US Fish and Wildlife Service, Federal T&E Species | (805) 644-1766 |

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

**Concerns and Advice to Responders:**

The lagoon and stream provide habitat for both sensitive and T/E species (fishes, amphibians, reptiles) which can be killed or injured by oil and response/cleanup activities unless responders minimize disturbance in stream, lagoon, and associated vegetation, avoid trampling oil into sediments; and follow protective conditions from IC and resource biologists.

**Hazard and Restrictions:**

Unhealthy levels of coliform bacteria have been found intermittently in streams and on beaches in this area. Use appropriate PPE, safety procedures, and include reference to potential health problems in any site safety plan.

**Site Strategies:****Strategy: 4-610.1 Objective:** Exclude Oil

*Strategy:* Deploy exclusion booms across the inlet to minimize the likelihood of oiling the estuary. Place the booms in a configuration that forms an adjustable oil collection pocket that can accommodate changes in flow direction. Back exclusion booms with sorbent booms to minimize leakage. Line the shorelines and any side channels within the inlet to prevent collateral oiling. If there is recoverable oil on-water, deploy sorbents and contact the IC immediately regarding the use of skimmers. Monitor, adjust, and replace booms as needed to maintain effectiveness.

Table of Response Resources

| Equipment | Sub-Type     | Size | Unit | QTY | Unit | Last Page Update  |
|-----------|--------------|------|------|-----|------|---|
| Boom      | Swamp Boom   |      |      | 400 | feet | <i>Strategy Updated:</i><br><i>Last Test: 5/13/2014</i> |
| Boom      | Sorbent Boom |      |      | 400 | feet |   |
| Vehicle   | ATV          |      |      | 1   |      |   |
| anchors   |              |      |      | 2   |      |   |
| Staff     |              |      |      | 5   |      |   |

**Strategy: 4-610.2 Objective:** Erect Filter Fence

*Strategy:* Construct a filter fence across the front of the channel where the inlet is narrowest, water flows are low or dry, the ground can receive and hold metal stakes, and the spill is heavy oil. Monitor barrier and replace pom-poms as necessary to maintain effectiveness.

Table of Response Resources

| Equipment | Sub-Type             | Size         | Unit   | QTY | Unit  | Last Page Update  |
|-----------|----------------------|--------------|--------|-----|-------|---|
| Fence     | Construction Fencing | 4 x 100 feet |        | 2   | Rolls | <i>Strategy Updated:</i><br><i>Last Test: 5/13/2014</i> |
| Misc.     | Oil Snare (pom-pom)  |              |        | 360 |       |   |
| stakes    | T-posts              |              | 6 feet | 20  |       |   |
| Misc.     | Stake Driver         |              |        | 1   |       |   |
| Vehicle   | ATV                  |              |        | 1   |       |   |
| Staff     |                      |              |        | 5   |       |   |

**Strategy: 4-610.3 Objective:** Build Sandbag Dam

*Strategy:* Build a sandbag exclusion/containment dam using onsite materials or imported materials as directed by CDFW biologist. Use clean low silt content sand. If using onsite materials obtain only from un-vegetated areas and have a cultural specialist onsite to monitor. Install underflow pipes and/or a spillway to regulate water flows as conditions dictate. Closely regulate water levels to reduce collateral oiling. If there is recoverable oil on-water, deploy sorbents and contact the IC immediately regarding the use of skimmers.

Table of Response Resources

| Equipment | Sub-Type     | Size | Unit | QTY | Unit | Last Page Update |
|-----------|--------------|------|------|-----|------|------------------|
| Boom      | Sorbent Boom |      |      | 240 | feet |                  |
| stakes    |              |      |      | 24  |      |                  |
| Vehicle   | ATV          |      |      | 1   |      |                  |
| Staff     |              |      |      | 5   |      |                  |
| Sandbags  |              |      |      | 200 |      |                  |

**Strategy: 4-610.4 Objective:** Shoreline Pre-Clean: Resource Specialist Supervision Required

*Strategy:* Consult with resource trustees regarding wildlife issues before undertaking this activity. Hand crews to move and store kelp, driftwood, vegetative debris, trash, and other materials above high-tide line. Dispose of trash. Replace unoiled debris in its former location once the threat of oiling is past.

Table of Response Resources

| Equipment | Sub-Type   | Size | Unit | QTY | Unit | Last Page Update |
|-----------|------------|------|------|-----|------|------------------|
| Vehicle   | ATV        |      |      | 1   |      |                  |
| Misc.     | Trash Bags |      |      |     |      |                  |
| Staff     |            |      |      | 5   |      |                  |

**Logistics:**

*Directions:* From US 101 (West of Santa Barbara) exit at Refugio Beach State Park.

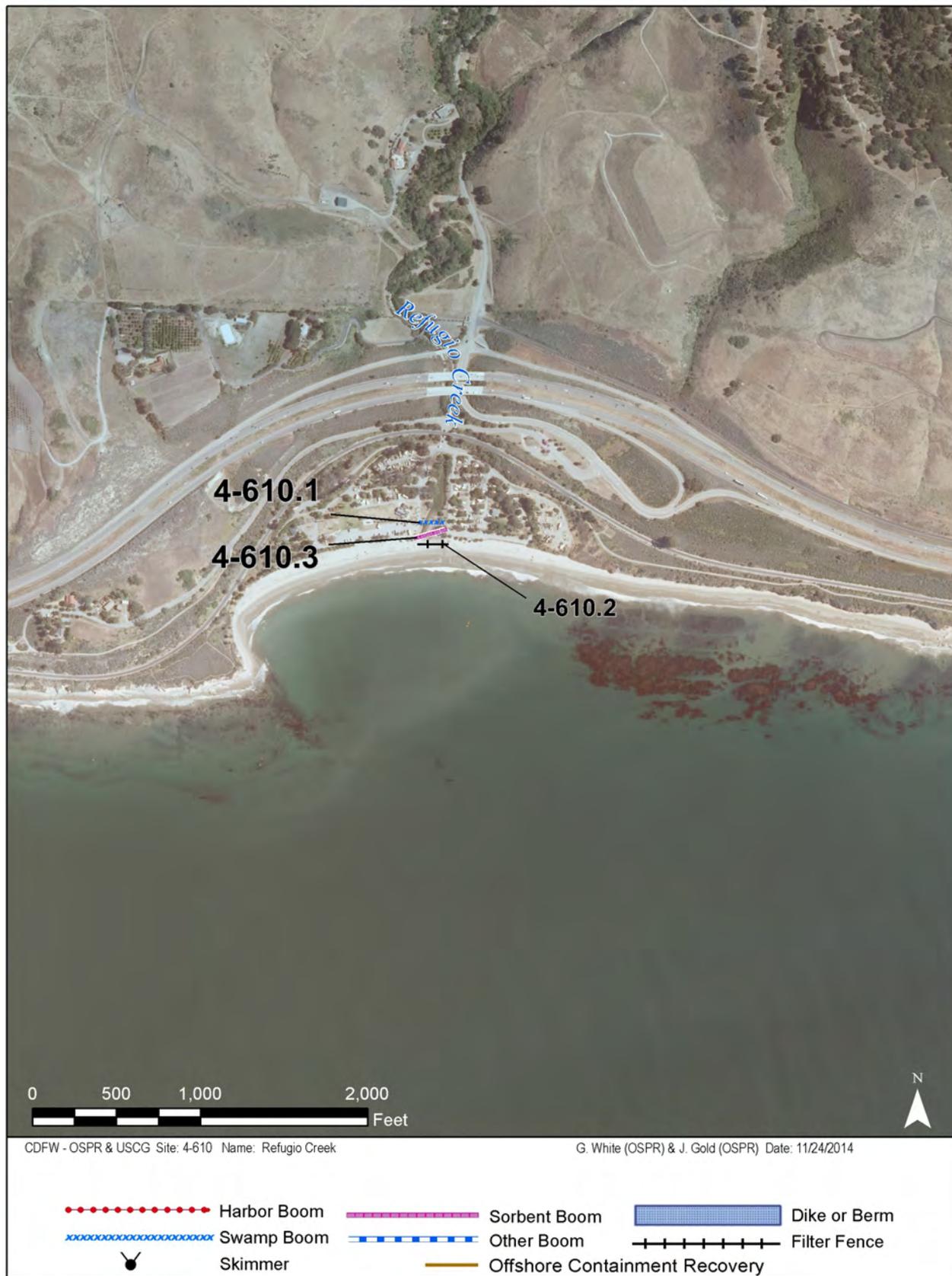
*Land Access:* Access to this site is controlled by California State Parks. Call Surcom for after hours.

*On-Water Limitations:* Santa Barbara Harbor is the nearest full service civilian harbor for full service berthing, launching and fueling.

*Facilities, Staging Areas, Command Posts, Available Equipment:* Excellent access for excavating equipment from large parking lot; good staging area.

*Communications Problems:* none

*Additional Operational Comments:* Due to the probable occurrence of western snowy plovers and/or California least terns at this site, please review the Sandy Beach Site Summary and Strategies (Site 4-000-A) for information on response operations when dealing with these sensitive species.



Imagery: NAIP 2010 (Summer) 4-Band

**4-613-A Site Summary - Corral-Las Flores Creeks****4-613-A****County :** Santa Barbara **ACP Division/Segment :** SB - K - S01**NOAA Chart :** 18721**Map Book :** 981 G x 5**Decimal Degrees :** 34.46271 -120.04498**Site Description:**

The Exxon Mobil (EM) facility in Corral/Las Flores Canyons receives oil emulsion from 3 offshore platforms, Heritage, Hondo and Harmony through a 20 inch pipeline. The line crosses the shoreline at El Capitan State Beach, runs north under the RR tracks, US 101, and Calle Real where it turns north and runs 2 miles to the EM plant. The facility has multiple spill safeguards which include berms, offshore containment basins, and a remotely operated instream spill containment structure. Spills are most likely to arise from inland sources with primary injuries to terrestrial and aquatic resources. Should the oil reach the ocean, intertidal habitats and nearshore marine mammals, birds, invertebrates would be at risk.

The principal 'at risk' portion of the site begins ~ 200 yds north of the confluence of Corral and Las Flores Canyon Creeks and extends downstream a distance of 1.3 miles to the ocean. The stream flows over one grade control structure, through an instream spill containment structure, and a culvert under Hwy 101, where it discharges directly onto the beach. The gradient of the stream is ~ 150 feet per mile. From late spring through early winter, stream flows are generally less than 1 mph.

Various mammals, birds, reptiles (two-striped gartersnake), amphibians (coast range newt), fish (Arroyo Chub) and invertebrates (monarch butterfly) are present. This is a perennial stream that supports a dense sycamore-willow riparian woodland. Extensive eelgrass bed at the beach. Western snowy plovers winter at Las Flores beach.

**Resources at Risk:***ESI and Habitat:* 9B Vegetated low banks

6B Riprap

5 Mixed sand and gravel beaches

3A Fine- to medium-grained sand beaches

**List of Resources at Risk:**

|            | <b>Resource Name</b>            | <b>Status</b> | <b>Presence</b> |
|------------|---------------------------------|---------------|-----------------|
| Amphibians | California red-legged frog      | FT            | Year-round      |
| Birds      | Western snowy plover            | FT            | Year-round      |
| Fish       | steelhead - Southern California | FE            | Year-round      |
| Mammals    | Southern sea otter              | FT, SP        | Year-round      |
| Reptiles   | southwestern pond turtle        | SSC           | Year-round      |

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

| <b>Type</b> | <b>Name/Title</b>                        | <b>Organization</b>                               | <b>Phone</b>   |
|-------------|--|---|----------------|
| C           | /  | Central Coast Archeological Information Center    | (805) 893-2474 |
| C           | /  | Native American Heritage Commission               | (916) 373-3710 |
| E           | /Central Control Plant Operations (24hr) | ExxonMobil  | (805) 961-4055 |
| T           | Mary Larson/Steelhead                    | California Department of Fish & Wildlife          | (562) 537-8624 |
| T           | SURCOM (24-hr)/                          | California State Parks (Dispatch)                 | (951) 443-2969 |
| T           | Rick Bush/Fisheries Biologist            | NOAA National Marine Fisheries Service            | (562) 980-3562 |
| T           | /  | US Fish and Wildlife Service, Federal T&E Species | (805) 644-1766 |

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

Western snowy plovers nest from Mar-Sep.

**Concerns and Advice to Responders:**

The stream provides habitat for many sensitive animals including T/E species. Animals and habitat can be injured by oil, response, and cleanup activities unless responders minimize disturbance in stream and associated vegetation; avoid trampling oil into sediments; minimize collateral oiling, and follow protective conditions from IC and resource biologists.

**Hazard and Restrictions:**

The canyon through which Corral Creek flows, is generally narrow and steep sided and subject to flash flows and landslides in the wet season. Slips, trips and falls (streambanks, debris, algae); heat ; dehydration; rattlesnakes; ticks; blackwidow and brown recluse spiders; mosquito bites; poison oak; water hazards

**Site Strategies:**

**Strategy: 4-613.1 Objective:** Contain Oil

*Strategy:* Offwater Control and Containment - Control, confine, and recover as much of the oil as close to the source of discharge as possible using offshore containment and collection methods, including but not limited to: blocking down-drains and culverts with sand bag dams, sorbents, hay bales, and temporary berms. Use vacuum trucks, and/or sorbents, as appropriate, to recover and remove oil. Dispose contaminants according to waste management plan.

Table of Response Resources

**Last Page Update**

**Strategy: 4-613.2 Objective:** Other: See Strategy Box

*Strategy:* The oil production facility in this watershed has a permanent instream oil spill containment basin. Should an oil spill occur upstream of basin, activate spill containment and collection procedures. If there is skimmable oil present, deploy sorbents and contact the IC immediately regarding the use of skimmers and/ or other mechanical means for collecting oil. Monitor basin and associated features to maintain their effectiveness. Additional temporary spill basins may be built if there would be a net environmental benefit to their use. Consult with resource biologist prior to constructing temporary basins.

Table of Response Resources

**Last Page Update**

**Strategy: 4-613.3 Objective:** Build Berm

*Strategy:* Build a berm(s) across the stream channel using silt free materials or sandbags under the direction of an authorized biologist to minimize damage to wildlife and habitat. Install underflow pipes and a spillway with a filter barrier the berm to allow through flows if water is actively flowing Cover the berm with sheet plastic to minimize erosion. Place swamp and/or sorbent booms upstream of the containment berm and along the streambanks to prevent downstream contamination from entrainment and/or washover to prevent collateral oiling. If there is skimmable oil present, deploy sorbents and contact the IC immediately regarding the use of skimmers and or other mechanical means for collecting oil. Monitor booms and associated features 2 X daily to maintain their integrity and effectiveness.

Table of Response Resources

**Last Page Update**

**Strategy: 4-613.4 Objective:** Shoreline Pre-Clean: Resource Specialist Supervision Required

**Strategy:** Inland waters precleaning- Consult with resource trustees regarding wildlife issues before undertaking this activity. When oiling of the channel is imminent, remove and store wood, aquatic vegetation, debris, trash, and other materials which could become oiled and create environmental hazards and disposal problems. The use of heavy equipment in the channel is prohibited and pre-cleaning will be conducted by hand crews to minimize disturbance to wildlife and their habitats unless authorized by the IC. Segregate and dispose trash.

Table of Response Resources

| Equipment  | Sub-Type | Size | Unit | QTY | Unit | Last Page Update |
|------------|----------|------|------|-----|------|------------------|
| Vehicle    | ATV      |      |      | 1   |      |                  |
| Trash bags |          |      |      |     |      |                  |
| Staff      |          |      |      | 5   |      |                  |

### Logistics:

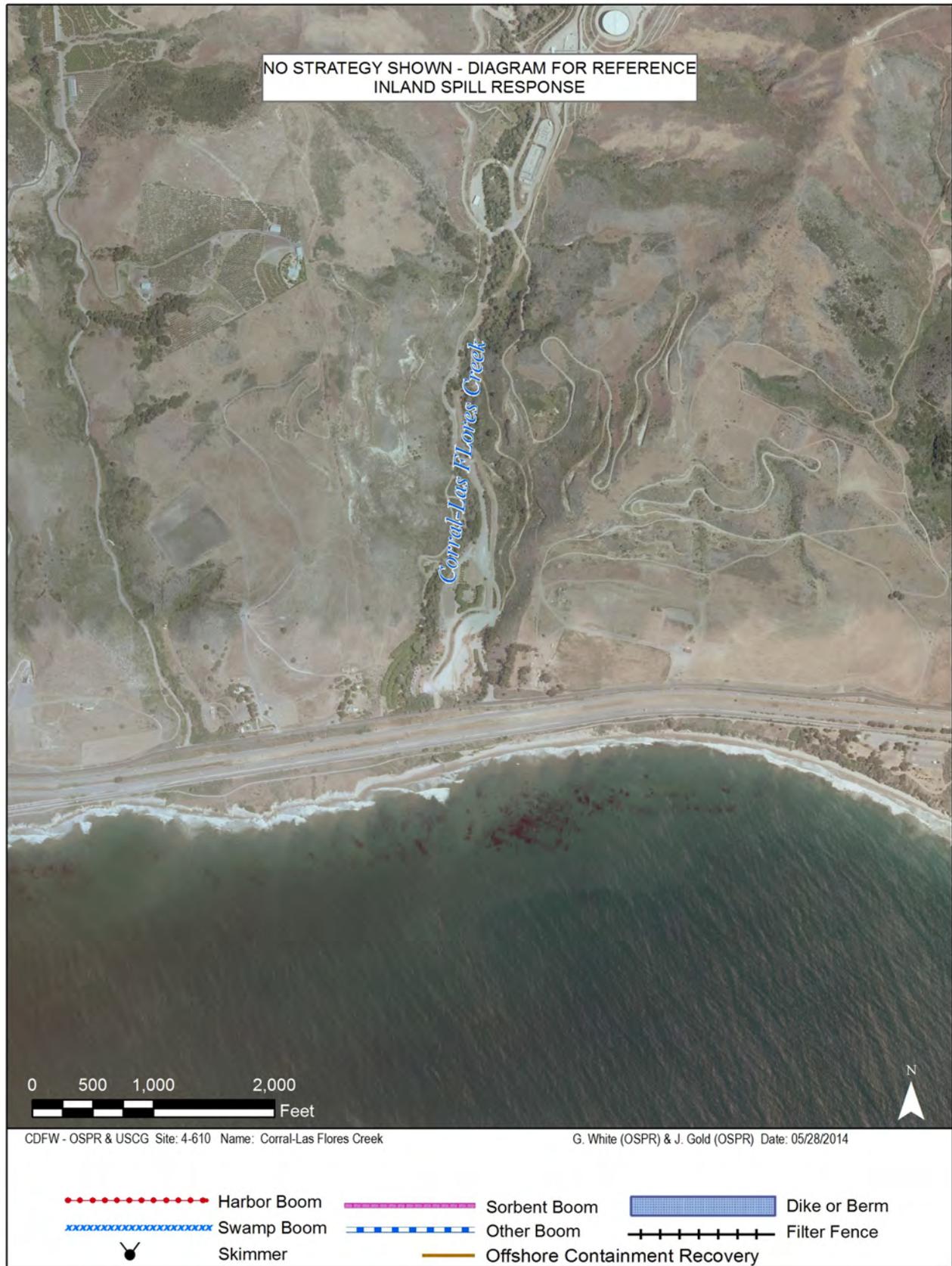
**Directions:** Exxon Las Flores Plant and Corral Creek- Off US 101, northbound, take El Capitan exit (Exit 117) on to Calle Real heading west. Approx 0.41 miles from El Capitan exit, turn right onto Calle Real. Continue heading west for about 1.1 miles to Corral Canyon Rd.; turn right into the facility; check in at the guardhouse. From US 101 southbound, take the Refugio Rd turnoff and turn right onto Calle Real heading east toward Santa Barbara for about 1.55 miles to Corral Canyon Rd. Corral Creek Mouth from Beach

**Land Access:** Much of the eastern streambank of Corral Creek is accessible by heavy equipment and vehicles from an access road.

**On-Water Limitations:** Contact Exxon Mobil for access points along stream corridor. Santa Barbara Harbor is the nearest full service civilian harbor for full service berthing, launching and fueling.

**Facilities, Staging Areas, Command Posts, Available Equipment:** A command post can be established at the Exxon Mobil plant. There is a remotely operated instream spill containment basin located 0.63 miles north of Calle Real. There is a large parking lot just inside and to the west of the facility gate which is suitable for staging personnel, equipment, and mobile command posts. Alternatively, for marine spills, staging for command posts, personnel, and equipment could be provided with permission from State Parks in both Refugio and El Capitan State Parks. There is electricity, water, and restrooms available in both parks.

**Communications Problems:** There is no cell phone communication in Corral Canyon.



Imagery: NAIP 2010 (Summer) 4-Band

**4-615-A Site Summary - El Capitan Creek****4-615-A****County :** Santa Barbara **ACP Division/Segment :** SB - K - S01**NOAA Chart :** 18721**Map Book :** 981 D x 5-6**Decimal Degrees :****Site Description:**

El Capitan beach state park covers 1.8 miles of shoreline in the vicinity of the creek mouth. El Capitan is a relatively small creek (15-30' wide) that empties out onto a mixed sand, gravel, cobble, boulder point. Numerous shorebirds and seabirds (brown pelicans) are present. Grunion spawning occurs in the spring and summer during high tides.

**Resources at Risk:***ESI and Habitat:* 9B Vegetated low banks

6A Gravel Beach

5 Mixed sand and gravel beaches

3A Fine- to medium-grained sand beaches

2A Exposed wave-cut platforms in bedrock, mud, or clay

1A Exposed Rocky Shore

**List of Resources at Risk:**

|            | <b>Resource Name</b>       | <b>Status</b> | <b>Presence</b> |
|------------|----------------------------|---------------|-----------------|
| Amphibians | California red-legged frog | FT            | Year-round      |
| Fish       | grunion                    |               | Mar-Aug         |
| Mammals    | Southern sea otter         | FT, SP        | Year-round      |

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEP-A-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

| <b>Type</b> | <b>Name/Title</b>                        | <b>Organization</b>                               | <b>Phone</b>   |
|-------------|--|---|----------------|
| C           | /  | Central Coast Archeological Information Center    | (805) 893-2474 |
| C           | /  | Native American Heritage Commission               | (916) 373-3710 |
| E           | /Central Control Plant Operations (24hr) | ExxonMobil  | (805) 961-4055 |
| T           | SURCOM (24-hr)/                          | California State Parks (Dispatch)                 | (951) 443-2969 |
| T           | /  | US Fish and Wildlife Service, Federal T&E Species | (805) 644-1766 |

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

**Concerns and Advice to Responders:**

The lagoon is habitat for sensitive species. Both habitat and species can be injured by oil and response/cleanup activities unless responders minimize disturbance in stream, lagoon, and associated vegetation; avoid trampling oil into sediments; and follow protective conditions from IC and resource biologists.

**Hazard and Restrictions:**

A. Unhealthy levels of coliform bacteria have been found intermittently in streams and on beaches in this area. Use appropriate PPE, safety procedures, and include reference to potential health problems in any site safety plan.

B. Safety Considerations- Roads, trails, beach cliffs and hillsides may be unstable in wet weather. Beware of flashfloods in canyons during rainy weather, ticks, poison oak, and rattlesnakes. Beware of trains at unregulated Railroad Crossings. Care must be taken when working on beaches backed by high cliffs. Safe entries to, and exits from beaches in this area are related to tides and beach sand levels. Sand surface may be soft. YOU MAY GET STRANDED ON THE BEACH - Plan accordingly.

**Site Strategies:**

**Strategy: 4-615.1 Objective:** Exclude Oil

*Strategy:* Deploy exclusion booms across the inlet to minimize the likelihood of oiling the estuary. Place the booms in a configuration that forms an adjustable oil collection pocket that can accommodate changes in flow direction. Back exclusion booms with sorbent booms to minimize leakage. Line the shorelines and any side channels within the inlet to prevent collateral oiling. If there is recoverable oil on-water, deploy sorbents and contact the IC immediately regarding the use of skimmers. Monitor, adjust, and replace booms as needed to maintain effectiveness.

Table of Response Resources

| Equipment | Sub-Type     | Size | Unit | QTY | Unit | Last Page Update |
|-----------|--------------|------|------|-----|------|------------------|
| Boom      | Swamp Boom   |      |      | 40  | feet |                  |
| Boom      | Sorbent Boom |      |      | 40  | feet |                  |
| Vehicle   | ATV          |      |      | 1   |      |                  |
| Staff     |              |      |      | 5   |      |                  |
| Anchor    |              |      |      | 2   |      |                  |

**Strategy: 4-615.2 Objective:** Build Sandbag Dam

*Strategy:* Build a sandbag exclusion/containment dam using onsite materials or imported materials as directed by CDFW biologist. Use clean low silt content sand. If using onsite materials obtain only from un-vegetated areas and have a cultural specialist onsite to monitor. Install underflow pipes and/or a spillway to regulate water flows as conditions dictate. Closely regulate water levels to reduce collateral oiling. If there is recoverable oil on-water, deploy sorbents and contact the IC immediately regarding the use of skimmers.

Table of Response Resources

| Equipment | Sub-Type     | Size | Unit | QTY | Unit | Last Page Update |
|-----------|--------------|------|------|-----|------|------------------|
| Boom      | Sorbent Boom |      |      | 40  | feet |                  |
| stakes    |              |      |      | 5   |      |                  |
| Staff     |              |      |      | 5   |      |                  |
| Vehicle   | ATV          |      |      | 1   |      |                  |
| Sandbags  |              |      |      | 50  |      |                  |

**Strategy: 4-615.3 Objective:** Erect Filter Fence

*Strategy:* Construct a filter fence across the front of the channel where the inlet is narrowest, water flows are low or dry, the ground can receive and hold metal stakes, and the spill is heavy oil. Monitor barrier and replace pom-poms as necessary to maintain effectiveness.

Table of Response Resources

| Equipment | Sub-Type             | Size         | Unit | QTY | Unit  | Last Page Update |
|-----------|----------------------|--------------|------|-----|-------|------------------|
| Fence     | Construction Fencing | 4 x 100 feet |      | 1   | Rolls |                  |
| Misc.     | Oil Snare (pom-pom)  |              |      | 40  |       |                  |
| stakes    | T-posts              |              |      | 16  |       |                  |
| Misc.     | Stake Driver         |              |      | 1   |       |                  |
| Vehicle   | ATV                  |              |      | 1   |       |                  |
| Staff     |                      |              |      | 5   |       |                  |

**Strategy: 4-615.4 Objective:** Shoreline Pre-Clean: Resource Specialist Supervision Required

*Strategy:* Consult with resource trustees regarding wildlife issues before undertaking this activity. Hand crews to move and store kelp, driftwood, vegetative debris, trash, and other materials above high-tide line. Dispose of trash. Replace unoiled debris in its former location once the threat of oiling is past.

Table of Response Resources

| Equipment | Sub-Type   | Size | Unit | QTY | Unit | Last Page Update |
|-----------|------------|------|------|-----|------|------------------|
| Vehicle   | ATV        |      |      | 1   |      |                  |
| Misc.     | Trash Bags |      |      |     |      |                  |
| Staff     |            |      |      | 5   |      |                  |

**Logistics:**

*Directions:* From US 101 (West of Santa Barbara) exit El Capitan State Beach Park. Access to the creek and surrounding beaches is very good for 4 wheel drive vehicles.

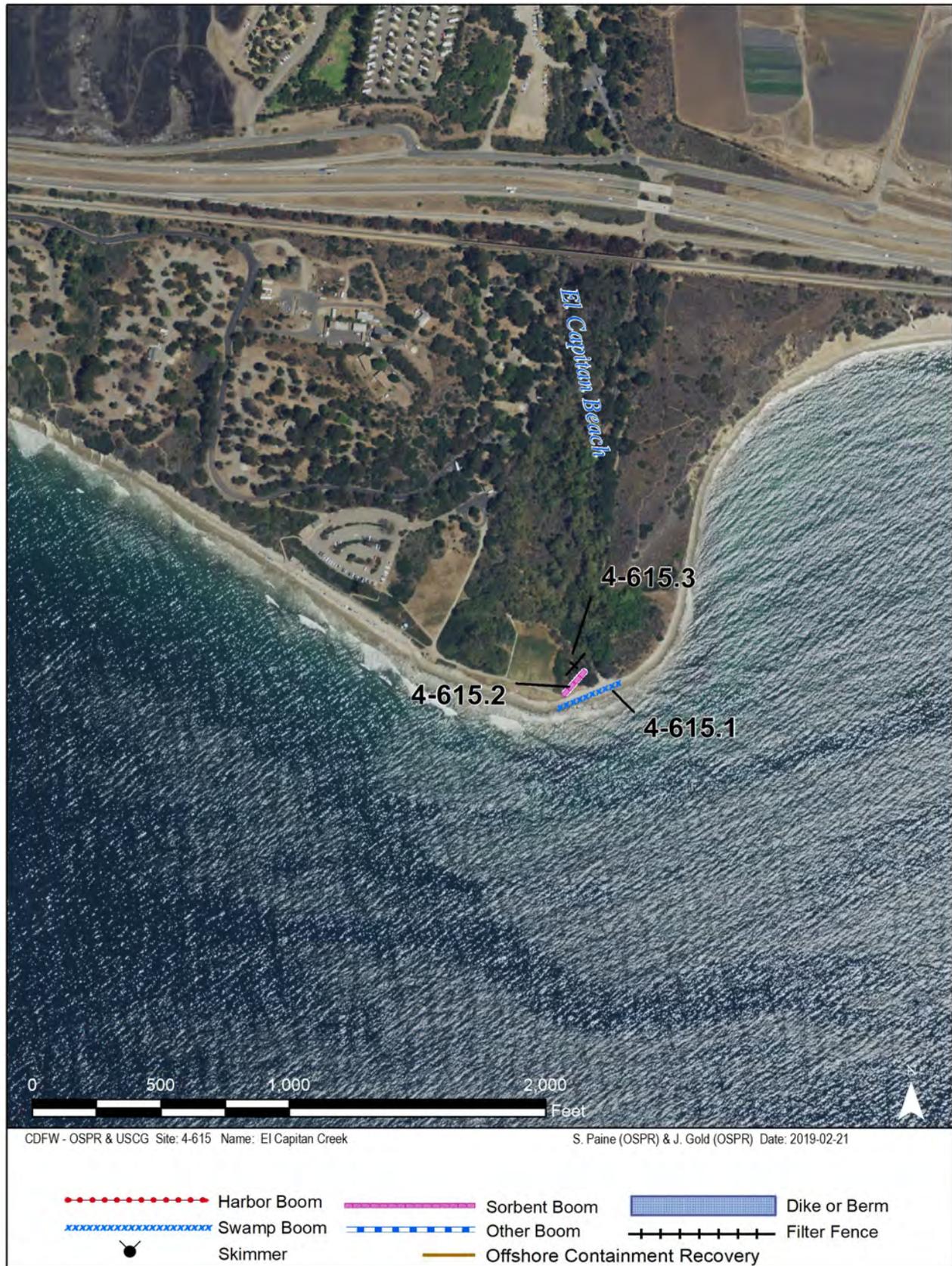
*Land Access:* Shoreline Access – Beach access roads may require regrading before vehicles can enter or exit beaches. Barriers to longshore movement are variable according to tides and sand levels.

*On-Water Limitations:* Santa Barbara Harbor is the nearest full service civilian harbor for full service berthing, launching and fueling.

*Facilities, Staging Areas, Command Posts, Available Equipment:*

*Communications Problems:* none

*Additional Operational Comments:* Due to the probable occurrence of western snowy plovers and/or California least terns at this site, please review the Sandy Beach Site Summary and Strategies (Site 4-000-A) for information on response operations when dealing with these sensitive species.



Imagery: NAIP 2016

**4-620-A Site Summary - Las Llagas (El Capitan Ranch Beach)****4-620-A****County :** Santa Barbara **ACP Division/Segment :** SB - L - S01**NOAA Chart :** 18721**Map Book :** 982 C x 5**Decimal Degrees :**34.4581 -120.0021**Site Description:**

This inlet is located within a small private gated beach community. The mouth of Las Llagas Creek is characterized by a small seasonal lagoon, with an area of approximately 0.1 to 0.2 acre. The lagoon is bounded on the west by a graded earthen access road and to the east by a steep brush covered hillside with no access. The stream empties onto a sand covered pocket beach which may erode to cobbles in the winter months. The northern end of the lagoon has willow riparian habitat. This lagoon is fed by an intermittent creek flowing through a large culvert which passes under the US 101. The culvert under US 101, through which Las Llagas Creek flows, provides a barrier to steelhead migration.

**Resources at Risk:***ESI and Habitat:* 10A Salt - and brackish-water marshes

9B Vegetated low banks

6B Riprap

5 Mixed sand and gravel beaches

3A Fine- to medium-grained sand beaches

2A Exposed wave-cut platforms in bedrock, mud, or clay

1A Exposed Rocky Shore

**List of Resources at Risk:**

|            | <b>Resource Name</b>       | <b>Status</b> | <b>Presence</b> |
|------------|----------------------------|---------------|-----------------|
| Amphibians | California red-legged frog | FT            | Year-round      |
| Fish       | tidewater goby             | FE            | Year-round      |
| Mammals    | Southern sea otter         | FT, SP        | Year-round      |
| Reptiles   | southwestern pond turtle   | SSC           | Year-round      |

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

| <b>Type</b> | <b>Name/Title</b> | <b>Organization</b>                               | <b>Phone</b>   |
|-------------|-------------------|---|----------------|
| C           | /                 | Central Coast Archeological Information Center    | (805) 893-2474 |
| C           | /                 | Native American Heritage Commission               | (916) 373-3710 |
| T           | /                 | US Fish and Wildlife Service, Federal T&E Species | (805) 644-1766 |

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

**Concerns and Advice to Responders:**

The lagoon is habitat for sensitive species. Both habitat and species can be injured by oil and response/cleanup activities unless responders minimize disturbance in stream, lagoon, and associated vegetation; avoid trampling oil into sediments; and follow protective conditions from IC and resource biologists.

**Hazard and Restrictions:**

A. Unhealthy levels of coliform bacteria have been found intermittently in streams and on beaches in this area. Use appropriate PPE, safety procedures, and include reference to potential health problems in any site safety plan.

B. Safety Considerations- Roads, trails, beach cliffs and hillsides may be unstable in wet weather. Beware of flashfloods in canyons during rainy weather, ticks, poison oak, and rattlesnakes. Beware of trains at unregulated Railroad Crossings. Care must be taken when working on beaches backed by high cliffs. Safe entries to, and exits from beaches in this area are related to tides and beach sand levels. Sand surface may be soft. YOU MAY GET STRANDED ON THE BEACH - Plan accordingly.

**Site Strategies:****Strategy: 4-620.1 Objective:** Exclude Oil

*Strategy:* Deploy exclusion booms across the inlet to minimize the likelihood of oiling the estuary. Place the booms in a configuration that forms an adjustable oil collection pocket that can accommodate changes in flow direction. Back exclusion booms with sorbent booms to minimize leakage. Line the shorelines and any side channels within the inlet to prevent collateral oiling. If there is recoverable oil on-water, deploy sorbents and contact the IC immediately regarding the use of skimmers. Monitor, adjust, and replace booms as needed to maintain effectiveness.

Table of Response Resources

| Equipment | Sub-Type     | Size | Unit | QTY | Unit | Last Page Update |
|-----------|--------------|------|------|-----|------|------------------|
| Boom      | Swamp Boom   |      |      | 200 | feet |                  |
| Boom      | Sorbent Boom |      |      | 200 | feet |                  |
| Vehicle   | ATV          |      |      | 1   |      |                  |
| Staff     |              |      |      | 5   |      |                  |
| anchors   |              |      |      | 3   |      |                  |

**Strategy: 4-620.2 Objective:** Build Sandbag Dam

*Strategy:* Build a sandbag exclusion/containment dam using onsite materials or imported materials as directed by CDFW biologist. Use clean low silt content sand. If using onsite materials obtain only from un-vegetated areas and have a cultural specialist onsite to monitor. Install underflow pipes and/or a spillway to regulate water flows as conditions dictate. Closely regulate water levels to reduce collateral oiling. If there is recoverable oil on-water, deploy sorbents and contact the IC immediately regarding the use of skimmers.

Table of Response Resources

| Equipment | Sub-Type     | Size | Unit | QTY | Unit | Last Page Update |
|-----------|--------------|------|------|-----|------|------------------|
| Boom      | Sorbent Boom |      |      | 200 | feet |                  |
| stakes    |              |      |      | 20  |      |                  |
| Staff     |              |      |      | 5   |      |                  |
| Vehicle   | ATV          |      |      | 1   |      |                  |
| Sandbags  |              |      |      | 100 |      |                  |

**Strategy: 4-620.3 Objective:** Erect Filter Fence

*Strategy:* Construct a filter fence across the front of the channel where the inlet is narrowest, water flows are low or dry, the ground can receive and hold metal stakes, and the spill is heavy oil. Monitor barrier and replace pom-poms as necessary to maintain effectiveness.

Table of Response Resources

| Equipment | Sub-Type             | Size         | Unit   | QTY | Unit  | Last Page Update |
|-----------|----------------------|--------------|--------|-----|-------|------------------|
| Fence     | Construction Fencing | 4 x 100 feet |        | 2   | Rolls |                  |
| Misc.     | Oil Snare (pom-pom)  |              |        | 40  |       |                  |
| stakes    | T-posts              |              | 6 feet | 16  |       |                  |
| Misc.     | T-posts              |              |        | 1   |       |                  |
| Vehicle   | ATV                  |              |        | 1   |       |                  |
| Staff     |                      |              |        | 5   |       |                  |

**Strategy: 4-620.4 Objective:** Shoreline Pre-Clean: Resource Specialist Supervision Required

*Strategy:* Consult with resource trustees regarding wildlife issues before undertaking this activity. Hand crews to move and store kelp, driftwood, vegetative debris, trash, and other materials above high-tide line. Dispose of trash. Replace unoiled debris in its former location once the threat of oiling is past.

Table of Response Resources

| Equipment | Sub-Type   | Size | Unit | QTY | Unit | Last Page Update |
|-----------|------------|------|------|-----|------|------------------|
| Vehicle   | ATV        |      |      | 1   |      |                  |
| Misc.     | Trash Bags |      |      |     |      |                  |
| Staff     |            |      |      | 5   |      |                  |

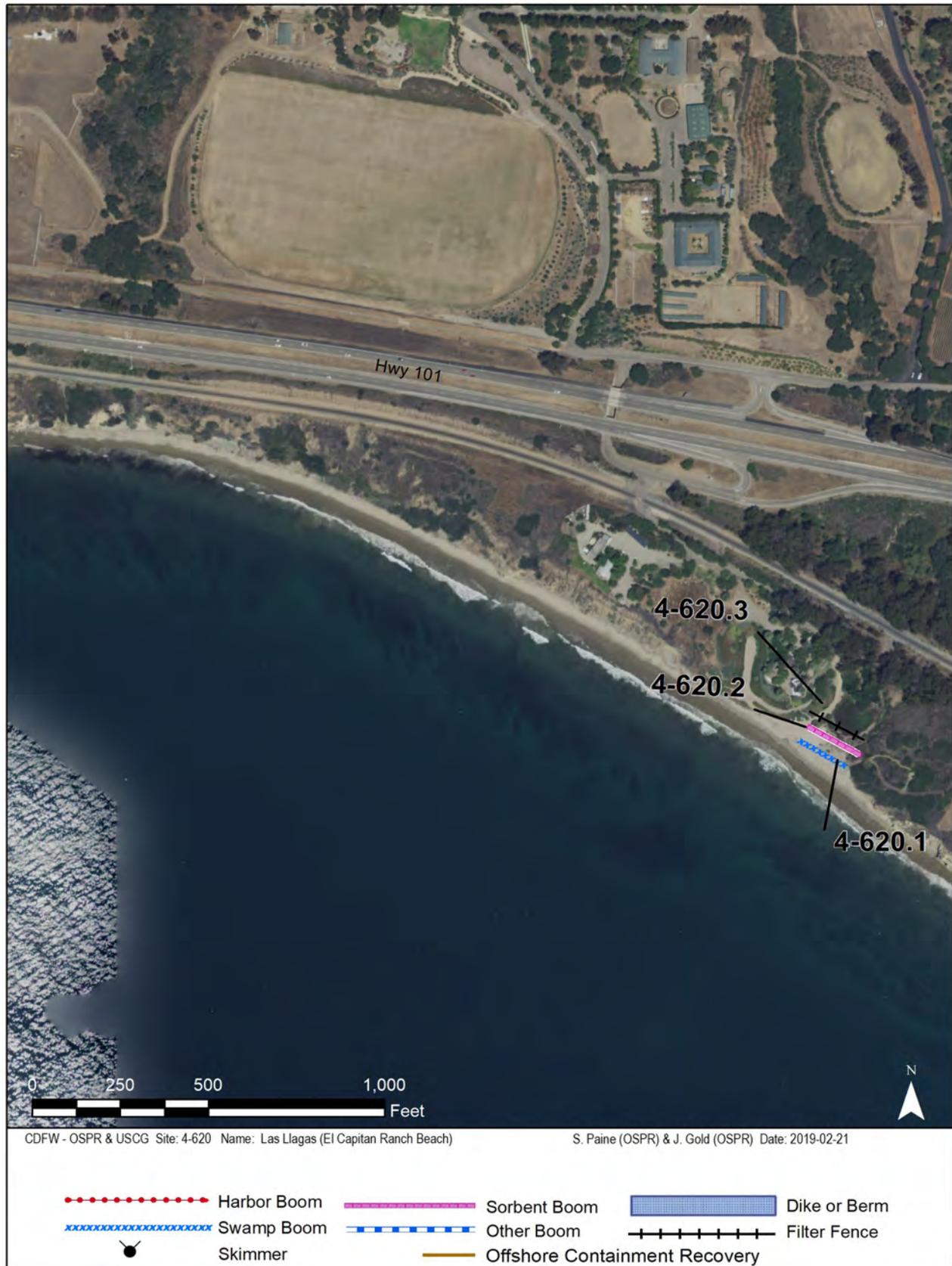
**Logistics:****Directions:**

*Land Access:* This inlet is located within a small private gated beach community.

*On-Water Limitations:* Santa Barbara Harbor is the nearest full service civilian harbor for full service berthing, launching and fueling.

*Facilities, Staging Areas, Command Posts, Available Equipment:*

*Communications Problems:* none



Imagery: NAIP 2016

**4-625-A Site Summary - Naples****4-625-A****County :** Santa Barbara **ACP Division/Segment :** SB - M - S01 SB - M - S02**NOAA Chart :** 18721 **Map Book :** 992 G-HJ x 1-2 **Decimal Degrees :**34.4403 -119.964**Site Description:**

Bounded by Dos Pueblos Canyon to the west and Eagle Canyon to the east. Naples area is approximately two miles long. The shoreline is primarily wave-cut rock platforms with some fine-grained sand and mixed sand and gravel beaches backed by coastal bluffs. Offshore is Naples reef a popular fishing, diving and marine research area. Offshore Dos Pueblos Ranch is The Cultured Abalone that grows red abalone. Naples State Marine Conservation Area is located at this site. Harbor seal pupping and breeding occur from Dec-May, with significant haulout occurring year round. Grunion spawning occurs in the spring and summer during high tides. Extensive kelp beds exist offshore.

**Resources at Risk:***ESI and Habitat:* 6B Riprap

5 Mixed sand and gravel beaches

3A Fine- to medium-grained sand beaches

2A Exposed wave-cut platforms in bedrock, mud, or clay

1A Exposed Rocky Shore

**List of Resources at Risk:**

|         | <b>Resource Name</b> | <b>Status</b> | <b>Presence</b> |
|---------|----------------------|---------------|-----------------|
| Fish    | grunion              |               | Mar-Aug         |
| Mammals | Southern sea otter   | FT, SP        | Year-round      |
| Mammals | harbor seal          | FP            | year-round      |

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

| <b>Type</b> | <b>Name/Title</b>                          | <b>Organization</b>                                | <b>Phone</b>   |
|-------------|--|--|----------------|
| C           | /  | Central Coast Archeological Information Center     | (805) 893-2474 |
| C           | /  | Native American Heritage Commission                | (916) 373-3710 |
| T           | Becky Ota/Marine Conservation Manager      | California Department of Fish & Wildlife, MPAs     | (650) 631-6789 |
| T           | Steve Wertz/Senior Environmental Scientist | California Department of Fish and Wildlife, Marine | (562) 343-3808 |
| T           | Justin Viezbicke/Marine Mammal Stranding   | NOAA National Marine Fisheries Service             | (562) 506-4315 |
| T           | /  | US Fish and Wildlife Service, Federal T&E Species  | (805) 644-1766 |

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

**Concerns and Advice to Responders:**

Inshore waters and shorelines contain sensitive habitat for invertebrates, birds, sea otters, and other marine mammals which can be injured or killed by oil. Because there are no practicable onshore response strategies for protecting these resources and the shorelines are virtually inaccessible except by foot traffic, landing craft or helicopter, it is best to collect and/or disperse oil offshore, before it reaches inshore areas or the shoreline.

**Hazard and Restrictions:**

A. Unhealthy levels of coliform bacteria have been found intermittently in streams and on beaches in this area. Use appropriate PPE, safety procedures, and include reference to potential health problems in any site safety plan.

B. Safety Considerations- Roads, trails, beach cliffs and hillsides may be unstable in wet weather. Beware of flashfloods in canyons during rainy weather, ticks, poison oak, and rattlesnakes. Beware of trains at unregulated Railroad Crossings. Care must be taken when working on beaches backed by high cliffs. Safe entries to, and exits from beaches in this area are related to tides and beach sand levels. Sand surface may be soft. YOU MAY GET STRANDED ON THE BEACH - Plan accordingly.

**Site Strategies:**

**Strategy: 4-625.1 Objective:** Shoreline Pre-Clean: Resource Specialist Supervision Required

*Strategy:* Consult with resource trustees regarding wildlife issues before undertaking this activity. Hand crews to move and store kelp, driftwood, vegetative debris, trash, and other materials above high-tide line. Dispose of trash. Replace unoiled debris in its former location once the threat of oiling is past.

Table of Response Resources

| Equipment | Sub-Type   | Size | Unit | QTY | Unit | Last Page Update |
|-----------|------------|------|------|-----|------|------------------|
| Vehicle   | ATV        |      |      | 1   |      |                  |
| Misc.     | Trash Bags |      |      |     |      |                  |
| Staff     |            |      |      | 5   |      |                  |

**Logistics:**

*Directions:* From US 101 (west of Santa Barbara) several roads connect to shoreline.

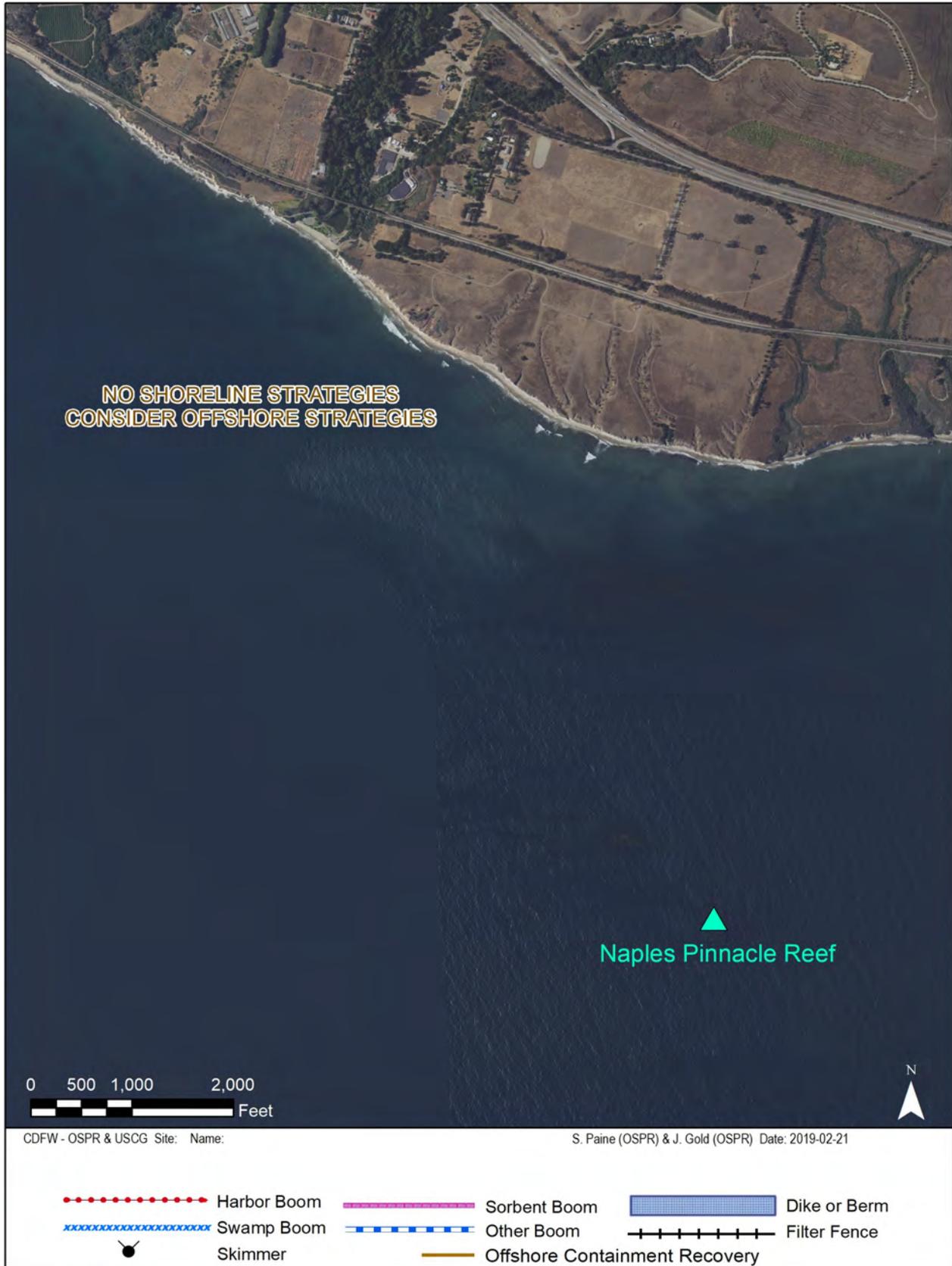
*Land Access:* Access - Shorelines and streams in this site are accessible only through private property. Contact the landowner for permission to enter and information on road conditions.

*On-Water Limitations:* Santa Barbara Harbor is the nearest full service civilian harbor for full service berthing, launching and fueling.

*Facilities, Staging Areas, Command Posts, Available Equipment:* Parking lot with restrooms at Haskall's beach.

*Communications Problems:* none

*Additional Operational Comments:* Protect the Marine Protected Area (MPA) boundaries.



Imagery: NAIP 2016

County: Santa Barbara ACP Division/Segment: SB - M - S02

NOAA Chart: 18721

Map Book: 993 B x 2

Decimal Degrees: 34.4353 -119.9293

**Site Description:**

This is a small, intermittent creek which empties out onto a small fine-grained sand beach backed by a cobble-boulder storm berm. Tidal wash over occurs into a seasonal lagoon at the beach. The mouth is open to the ocean only during winter rains. The Sunny Sea Farms Neushul Mariculture grows macroalgae by the Ellwood pier near Eagle Creek.

**Resources at Risk:**

- ESI and Habitat: 10A Salt - and brackish-water marshes
- 9B Vegetated low banks
- 6A Gravel Beach
- 5 Mixed sand and gravel beaches
- 3A Fine- to medium-grained sand beaches
- 2A Exposed wave-cut platforms in bedrock, mud, or clay
- 1A Exposed Rocky Shore

**List of Resources at Risk:**

|            | Resource Name              | Status  | Presence   | Sensitivity |
|------------|----------------------------|---------|------------|-------------|
| Amphibians | California red-legged frog | FT, SSC | Year-round |             |
| Fish       | tidewater goby             | FE, SSC | Year-round |             |
| Mammals    | Southern sea otter         | FT, SP  | Year-round |             |

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

| Type | Name/Title                     | Organization                                      | Phone         |
|------|--------------------------------|---|---------------|
| C    | /                              | Central Coast Archeological Information Center    | (805) 682-471 |
| C    | /                              | Native American Heritage Commission               | (916) 373-371 |
| E    | Jason Backhaus/Project Manager | Com Investments, LLC                              | (805) 455-296 |
| T    | /                              | US Fish and Wildlife Service, Federal T&E Species | (805) 644-176 |

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

**Concerns and Advice to Responders:**

The lagoon is habitat for sensitive species. Both habitat and species can be injured by oil and response/cleanup activities unless responders minimize disturbance in stream, lagoon, and associated vegetation; avoid trampling oil into sediments; and follow protective conditions from IC and resource biologists.

**Hazard and Restrictions:**

Unhealthy levels of coliform bacteria have been found intermittently in streams and on beaches in this area. Use appropriate PPE, safety procedures, and include reference to potential health problems in any site safety plan.

**Site Strategies:**

**Site Validation Level: V**

**Strategy: 4-630.1 Objective:** Build Sandbag Dam

*Strategy:* Build a sandbag exclusion/containment dam using onsite materials or imported materials as directed by CDFW biologist. Use clean low silt content sand. If using onsite materials obtain only from un-vegetated areas and have a cultural specialist onsite to monitor. Install underflow pipes and/or a spillway to regulate water flows as conditions dictate. Closely regulate water levels to reduce collateral oiling. If there is recoverable oil on-water, deploy sorbents and contact the IC immediately regarding the use of skimmers.

Table of Response Resources

| Equipment | Sub-Type     | Size | Unit | QTY | Unit | Last Page Update         |
|-----------|--------------|------|------|-----|------|--------------------------|
| Boom      | Sorbent Boom |      |      | 100 | feet | <i>Strategy Updated:</i> |
| Staff     |              |      |      | 5   |      | <i>Last Test:</i>        |
| Sandbags  |              |      |      | 50  |      |                          |

**Strategy: 4-630.2 Objective:** Erect Filter Fence

*Strategy:* Construct a filter fence across the front of the channel where the inlet is narrowest, water flows are low or dry, the ground can receive and hold metal stakes, and the spill is heavy oil. Monitor barrier and replace pom-poms as necessary to maintain effectiveness.

Table of Response Resources

| Equipment | Sub-Type             | Size         | Unit   | QTY | Unit  | Last Page Update            |
|-----------|----------------------|--------------|--------|-----|-------|-----------------------------|
| Fence     | Construction Fencing | 1 x 100 feet |        | 1   | Rolls | <i>Strategy Updated:</i>    |
| Misc.     | Oil Snare (pom-pom)  |              |        | 100 |       | <i>Last Test: 8/20/2021</i> |
| stakes    | T-posts              |              | 6 feet | 5   |       |                             |
| Misc.     | Stake Driver         |              |        | 1   |       |                             |
| Staff     |                      |              |        | 5   |       |                             |

**Strategy: 4-630.3 Objective:** Exclude Oil

*Strategy:* Deploy exclusion booms across the inlet to minimize the likelihood of oiling the estuary. Place the booms in a configuration that forms an adjustable oil collection pocket that can accommodate changes in flow direction. Back exclusion booms with sorbent booms to minimize leakage. Line the shorelines and any side channels within the inlet to prevent collateral oiling. If there is recoverable oil on-water, deploy sorbents and contact the IC immediately regarding the use of skimmers. Monitor, adjust, and replace booms as needed to maintain effectiveness.

Table of Response Resources

| Equipment | Sub-Type     | Size | Unit | QTY | Unit | Last Page Update            |
|-----------|--------------|------|------|-----|------|-----------------------------|
| Boom      | Swamp Boom   |      |      | 100 | feet | <i>Strategy Updated:</i>    |
| Boom      | Sorbent Boom |      |      | 100 | feet | <i>Last Test: 5/22/2015</i> |
| Staff     |              |      |      | 5   |      |                             |
| Anchor    |              |      |      | 4   |      |                             |

**Strategy: 4-630.4 Objective:** Shoreline Pre-Clean: Resource Specialist Supervision Required

*Strategy:* Consult with resource trustees regarding wildlife issues before undertaking this activity. Hand crews to move and store kelp, driftwood, vegetative debris, trash, and other materials above high-tide line. Dispose of trash. Replace unsoiled debris in its former location once the threat of oiling is past. If heavy equipment is required for this operation, request trustee consultation and IC for authorization.

Table of Response Resources

| Equipment | Sub-Type   | Size | Unit | QTY | Unit | Last Page Update            |
|-----------|------------|------|------|-----|------|-----------------------------|
| Vehicle   | ATV        |      |      | 1   |      | <i>Strategy Updated:</i>    |
| Misc.     | Trash Bags |      |      |     |      | <i>Last Test: 5/22/2015</i> |
| Staff     |            |      |      | 5   |      |                             |

**Logistics:**

*Directions:* From US 101 (west of Santa Barbara) exit at Winchester Canyon. Drive west along Calle Real and go south over the freeway at Cathedral Oaks Rd. Turn West onto Hollister Ave towards the Ritz-Carlton Bacara. Go past the Bacara to the gate and obtain access. Once past the gate drive for 0.5 mile to the creek.

*Land Access:*

*On-Water Limitations:* Santa Barbara Harbor is the nearest full service civilian harbor for full service berthing, launching and fueling.

*Facilities, Staging Areas, Command Posts, Available Equipment:*

*Communications Problems:* none



CDFW - OSPR & USCG Site: 4-630 Name: Eagle Canyon Creek

G. Ewing (OSPR) & J. Gold (OSPR) Date: 2/10/2022

 Swamp Boom

 Sorbent Boom

 Filter Fence

**County:** Santa Barbara **ACP Division/Segment:** SB - M - S02**NOAA Chart:** 18721**Map Book:** 993 D x 3**Decimal Degrees:** 34.432 -119.9178**Site Description:**

This site includes Tecolote canyon creek and approximately 1/4 acre open water lagoon. Tecolote canyon creek lagoon is fringed by vegetation. To the NW and SE are fine-grained sand beaches. A small sand berm develops during dry season, however the creek mouth is generally close to the high tide line. Seabirds, shorebirds, waterfowl and raptors are present.

**Resources at Risk:****ESI and Habitat:** 10A Salt - and brackish-water marshes

9B Vegetated low banks

6A Gravel Beach

5 Mixed sand and gravel beaches

3A Fine- to medium-grained sand beaches

2A Exposed wave-cut platforms in bedrock, mud, or clay

1A Exposed Rocky Shore

**List of Resources at Risk:**

|            | <b>Resource Name</b>       | <b>Status</b> | <b>Presence</b> | <b>Sensitivity</b> |
|------------|----------------------------|---------------|-----------------|--------------------|
| Amphibians | California red-legged frog | FT, SSC       | Year-round      |                    |
| Fish       | tidewater goby             | FE, SSC       | Year-round      |                    |
| Mammals    | harbor seal                | FP            | Year-round      |                    |
| Mammals    | Southern sea otter         | FT, SP        | Year-round      |                    |

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

| <b>Type</b> | <b>Name/Title</b> | <b>Organization</b>                               | <b>Phone</b>   |
|-------------|-------------------|---|----------------|
| C           | /                 | Central Coast Archeological Information Center    | (805) 682-4711 |
| C           | /                 | Native American Heritage Commission               | (916) 373-3710 |
| E           | /Manager          | Bacara Resort and Spa                             | (805) 455-1305 |
| E           | /Manager          | Sandpiper Golf Course                             | (805) 968-1541 |
| T           | /                 | US Fish and Wildlife Service, Federal T&E Species | (805) 644-1766 |

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

**Concerns and Advice to Responders:**

The lagoon is habitat for a Threatened/Endangered fish and other sensitive species. Animals and habitat can be injured by oil and response/cleanup activities unless responders minimize disturbance in stream, lagoon, and associated vegetation; avoid trampling oil into sediments; and follow protective conditions from IC and resource biologists.

**Hazard and Restrictions:**

Unhealthy levels of coliform bacteria have been found intermittently in streams and on beaches in this area. Use appropriate PPE, safety procedures, and include reference to potential health problems in any site safety plan.

**Site Strategies:****Site Validation Level: V****Strategy: 4-635.1 Objective:** Exclude Oil

*Strategy:* Deploy exclusion booms across the inlet to minimize the likelihood of oiling the estuary. Place the booms in a configuration that forms an adjustable oil collection pocket that can accommodate changes in flow direction. Back exclusion booms with sorbent booms to minimize leakage. Line the shorelines and any side channels within the inlet to prevent collateral oiling. If there is recoverable oil on-water, deploy sorbents and contact the IC immediately regarding the use of skimmers. Monitor, adjust, and replace booms as needed to maintain effectiveness. Only need 200 feet of swamp boom to cover the mouth.

Table of Response Resources

| Equipment | Sub-Type     | Size | Unit | QTY | Unit | Last Page Update  |
|-----------|--------------|------|------|-----|------|---|
| Boom      | Swamp Boom   |      |      | 400 | feet | <i>Strategy Updated:</i><br><i>Last Test: 7/20/2021</i> |
| Boom      | Sorbent Boom |      |      | 400 | feet |   |
| Staff     |              |      |      | 5   |      |   |
| Anchor    |              |      |      | 4   |      |   |

**Strategy: 4-635.2 Objective:** Build Sandbag Dam

*Strategy:* Build a sandbag exclusion/containment dam using onsite materials or imported materials as directed by CDFW biologist. Use clean low silt content sand. If using onsite materials obtain only from un-vegetated areas and have a cultural specialist onsite to monitor. Install underflow pipes and/or a spillway to regulate water flows as conditions dictate. Closely regulate water levels to reduce collateral oiling. If there is recoverable oil on-water, deploy sorbents and contact the IC immediately regarding the use of skimmers.

Table of Response Resources

| Equipment | Sub-Type     | Size | Unit | QTY | Unit | Last Page Update |
|-----------|--------------|------|------|-----|------|------------------|
| Boom      | Sorbent Boom |      |      | 240 | feet |                  |
| stakes    |              |      |      | 24  |      |                  |
| Staff     |              |      |      | 5   |      |                  |
| Sandbags  |              |      |      | 200 |      |                  |

**Strategy: 4-635.3 Objective:** Shoreline Pre-Clean: Resource Specialist Supervision Required

*Strategy:* Consult with resource trustees regarding wildlife issues before undertaking this activity. Hand crews to move and store kelp, driftwood, vegetative debris, trash, and other materials above high-tide line. Dispose of trash. Replace unoiled debris in its former location once the threat of oiling is past.

Table of Response Resources

| Equipment | Sub-Type   | Size | Unit | QTY | Unit | Last Page Update |
|-----------|------------|------|------|-----|------|------------------|
| Vehicle   | ATV        |      |      | 1   |      |                  |
| Misc.     | Trash Bags |      |      |     |      |                  |
| Staff     |            |      |      | 5   |      |                  |

**Logistics:**

*Directions:* From US 101 (west of Santa Barbara) exit at Winchester Canyon. Drive west along Calle Real and go south over the freeway at Cathedral Oaks Rd. Turn West onto Hollister Ave towards the Ritz-Carlton Bacara. Before the Bacara, park at the large coastal access parking lot.

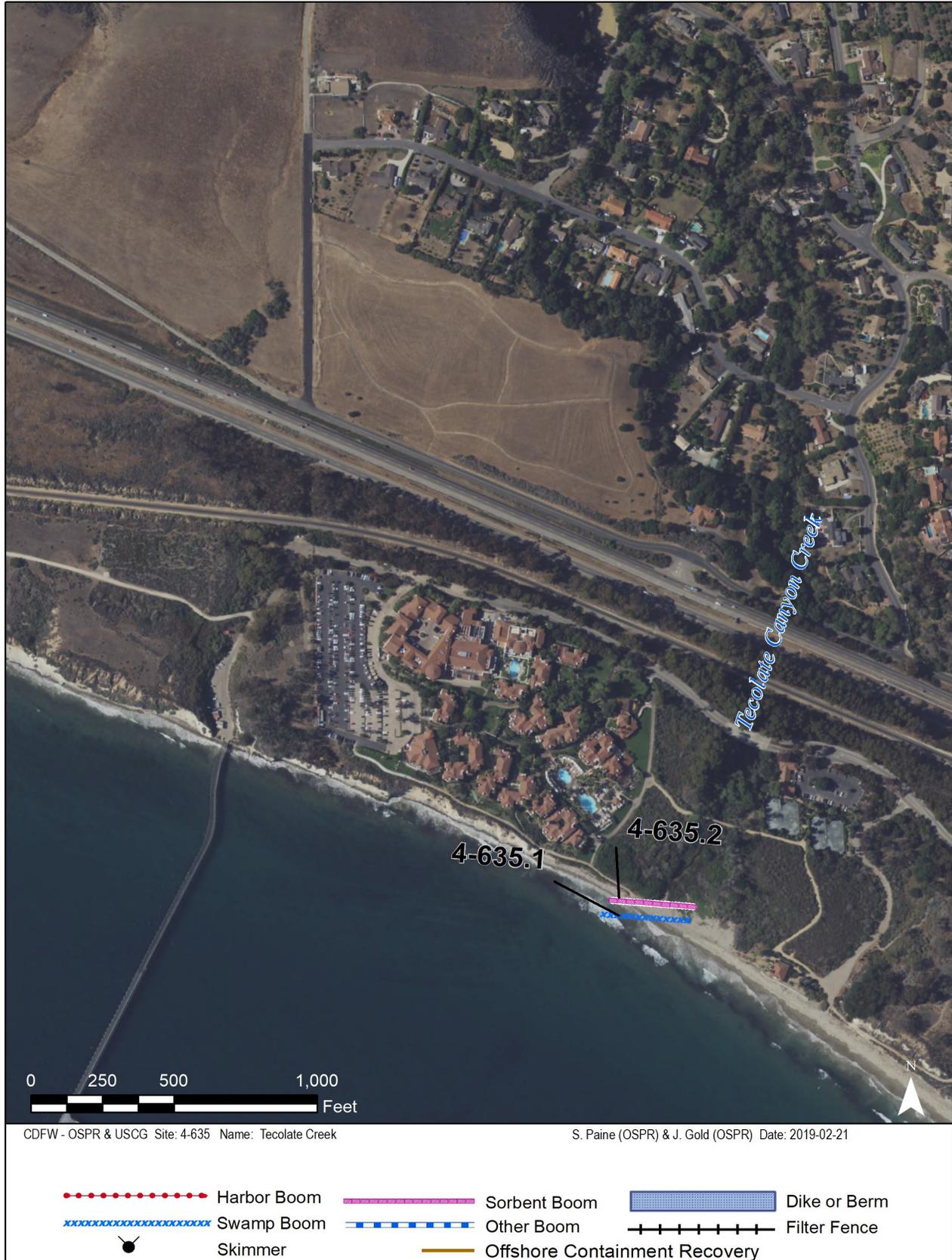
*Land Access:* Coastal access pathway is open 24/7. The emergency access has a locked gate.

*On-Water Limitations:* Santa Barbara Harbor is the nearest full service civilian harbor for full service berthing, launching and fueling.

*Facilities, Staging Areas, Command Posts, Available Equipment:*

*Communications Problems:* none

*Additional Operational Comments:* Due to the probable occurrence of western snowy plovers and/or California least terns at this site, please review the Sandy Beach Site Summary and Strategies (Site 4-000-A) for information on response operations when dealing with these sensitive species.



Imagery: NAIP 2016

**4-640-A Site Summary - Bell Canyon Creek****4-640-A****County :** Santa Barbara **ACP Division/Segment :** SB - N - S01**NOAA Chart :** 18721**Map Book :** 993 D-E x 2-3**Decimal Degrees :** 34.4292 -119.9128**Site Description:**

Bell canyon creek is a moderate sized creek with a well developed lagoon just west of sandpiper golf course; the sand berm which develops during summer is usually relatively low and the lagoon is subject to wash over especially during high tides. The creek flow during winter is usually enough to breach the berm. The beaches to the east and west are of fine to medium-grained sand, and often have very high volumes of debris (mostly wood and kelp) especially after rains. The Venoco Ellwood Onshore Facility (EOF) lies 1/4 mile inland is now decommissioned. Abundant seabirds, shorebirds, waterfowl and raptors are present.

**Resources at Risk:***ESI and Habitat:* 10A Salt - and brackish-water marshes

9B Vegetated low banks

3A Fine- to medium-grained sand beaches

**List of Resources at Risk:**

|            | <b>Resource Name</b>            | <b>Status</b> | <b>Presence</b> |
|------------|---------------------------------|---------------|-----------------|
| Amphibians | California red-legged frog      | FT            | Year-round      |
| Fish       | tidewater goby                  | FE            | Year-round      |
| Fish       | steelhead - Southern California | FE            | Year-round      |
| Reptiles   | southwestern pond turtle        | SSC           | Year-round      |

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

| <b>Type</b> | <b>Name/Title</b>             | <b>Organization</b>                               | <b>Phone</b>   |
|-------------|-------------------------------|---|----------------|
| C           | /                             | Central Coast Archeological Information Center    | (805) 893-2474 |
| C           | /                             | Native American Heritage Commission               | (916) 373-3710 |
| E           | /Manager                      | Bacara Resort and Spa                             | (805) 455-1305 |
| E           | /Manager                      | Sandpiper Golf Course                             | (805) 968-1541 |
| T           | Mary Larson/Steelhead         | California Department of Fish & Wildlife          | (562) 537-8624 |
| T           | Rick Bush/Fisheries Biologist | NOAA National Marine Fisheries Service            | (562) 980-3562 |
| T           | /                             | US Fish and Wildlife Service, Federal T&E Species | (805) 644-1766 |

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

**Concerns and Advice to Responders:**

The lagoon is habitat for Threatened/Endangered fishes and other sensitive species. Animals and habitat can be injured by oil and response/cleanup activities unless responders minimize disturbance in stream, lagoon, and associated vegetation; avoid trampling oil into sediments; and follow protective conditions from IC and resource biologists.

**Hazard and Restrictions:**

Unhealthy levels of coliform bacteria have been found intermittently in streams and on beaches in this area. Use appropriate PPE, safety procedures, and include reference to potential health problems in any site safety plan.

**Site Strategies:****Strategy: 4-640.1 Objective:** Exclude Oil

*Strategy:* Deploy exclusion booms across the inlet to minimize the likelihood of oiling the estuary. Place the booms in a configuration that forms an adjustable oil collection pocket that can accommodate changes in flow direction. Back exclusion booms with sorbent booms to minimize leakage. Line the shorelines and any side channels within the inlet to prevent collateral oiling. If there is recoverable oil on-water, deploy sorbents and contact the IC immediately regarding the use of skimmers. Monitor, adjust, and replace booms as needed to maintain effectiveness.

Table of Response Resources

| Equipment | Sub-Type     | Size | Unit | QTY | Unit | Last Page Update   |
|-----------|--------------|------|------|-----|------|--|
| Boom      | Swamp Boom   |      |      | 400 | feet | <i>Strategy Updated:</i><br><i>Last Test:</i> 10/29/2014 |
| Boom      | Sorbent Boom |      |      | 400 |      |  |
| Staff     |              |      |      | 5   |      |  |
| Anchor    |              |      |      | 2   |      |  |

**Strategy: 4-640.2 Objective:** Erect Filter Fence

*Strategy:* Construct a filter fence across the front of the channel where the inlet is narrowest, water flows are low or dry, the ground can receive and hold metal stakes, and the spill is heavy oil. Monitor barrier and replace pom-poms as necessary to maintain effectiveness.

Table of Response Resources

| Equipment | Sub-Type             | Size         | Unit   | QTY | Unit  | Last Page Update   |
|-----------|----------------------|--------------|--------|-----|-------|--|
| Fence     | Construction Fencing | 4 x 100 feet |        | 4   | Rolls | <i>Strategy Updated:</i><br><i>Last Test:</i> 10/29/2014 |
| Misc.     | Oil Snare (pom-pom)  |              |        | 720 |       |  |
| stakes    | T-posts              |              | 6 feet | 40  |       |  |
| Misc.     | Stake Driver         |              |        | 1   |       |  |
| Staff     |                      |              |        | 5   |       |  |

**Strategy: 4-640.3 Objective:** Shoreline Pre-Clean: Resource Specialist Supervision Required

*Strategy:* Consult with resource trustees regarding wildlife issues before undertaking this activity. Hand crews to move and store kelp, driftwood, vegetative debris, trash, and other materials above high-tide line. Dispose of trash. Replace unoiled debris in its former location once the threat of oiling is past.

Table of Response Resources

| Equipment | Sub-Type   | Size | Unit | QTY | Unit | Last Page Update |
|-----------|------------|------|------|-----|------|------------------|
| Vehicle   | ATV        |      |      | 1   |      |                  |
| Misc.     | Trash Bags |      |      |     |      |                  |
| Staff     |            |      |      | 5   |      |                  |

**Logistics:**

*Directions:* From US 101 (west of Santa Barbara) exit at Winchester Canyon. Drive west along Calle Real and go south over the freeway at Cathedral Oaks Rd. Turn West onto Hollister Ave towards the Sandpiper Golf Course. Turn left into

**4-640-A Site Strategy - Bell Canyon Creek**

**4-640-A**

the golf course and continue right into the decommissioned Ellwood facility. There is good access to the creek from this facility.

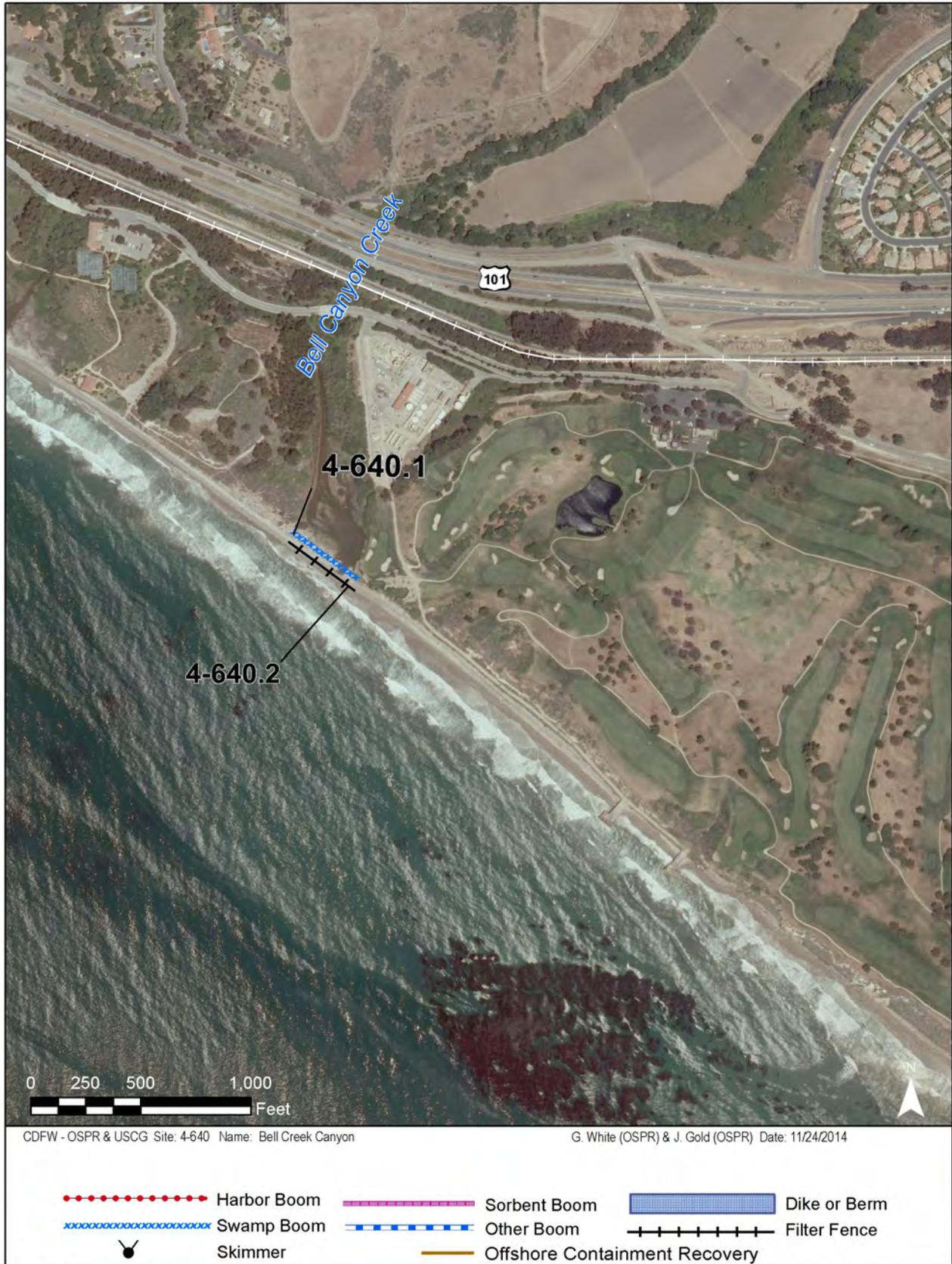
*Land Access:*

*On-Water Limitations:* Santa Barbara Harbor is the nearest full service civilian harbor for full service berthing, launching and fueling.

*Facilities, Staging Areas, Command Posts, Available Equipment:* Closest Airport: Santa Barbara AP is 5 miles east.

*Communications Problems:* none

*Additional Operational Comments:*



Imagery: NAIP 2010 (Summer) 4-Band

**4-645-A Site Summary - Devereaux Slough****4-645-A****County :** Santa Barbara **ACP Division/Segment :** SB - N - S02**NOAA Chart :** 18721**Map Book :** 993 H x 4-5**Decimal Degrees :**34.41047 -119.88126**Site Description:**

The lagoon lies just NW of Coal Oil point. This 45 acre slough contains freshwater emergent vegetation, salt marsh, tidal flats and sand dune habitats. The mouth is generally cut off from the ocean by a well developed sand berm except during heavy rainfall. East and West of the slough are extensive medium-grained sand beaches backed by vegetated dunes. Large surf and strong winds are common, especially in winter. The slough is part of the larger coal oil point natural reserve, managed by the University of California at Santa Barbara. Campus Point State Marine Conservation Area is included in this site. Abundant seabirds, shorebirds, waterfowl and raptors are present. Extensive eelgrass and kelpbed are offshore. There are research plot resources at various habitats.

**Resources at Risk:***ESI and Habitat:* 10A Salt - and brackish-water marshes

10B Freshwater marshes

9A Sheltered tidal flats

9B Vegetated low banks

3A Fine- to medium-grained sand beaches

**List of Resources at Risk:**

|               | <b>Resource Name</b>       | <b>Status</b> | <b>Presence</b> |
|---------------|----------------------------|---------------|-----------------|
| Birds         | Western snowy plover       | FT            | Year-round      |
| Birds         | Belding's savannah sparrow | SE            | Year-round      |
| Birds         | California least tern      | FE, SE        | Apr-Sep         |
| Fish          | tidewater goby             | FE            | Year-round      |
| Invertebrates | kelp forests               |               | Year-round      |
| Mammals       | Southern sea otter         | FT, SP        | Year-round      |
| Plants        | Ventura marsh milkvetch    | FE, SE        | Year-round      |

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

| <b>Type</b> | <b>Name/Title</b>                          | <b>Organization</b>                                | <b>Phone</b>   |
|-------------|--|--|----------------|
| C           | /  | Central Coast Archeological Information Center     | (805) 893-2474 |
| C           | /  | Native American Heritage Commission                | (916) 373-3710 |
| E           | Cristina Sandoval/Director                 | University California Santa Barbara, Coal Oil Pt.  | (805) 451-2403 |
| E           | Dispatch 24 Hr/Campus Police               | University of California Santa Barbara             | (805) 893-3447 |
| T           | Becky Ota/Marine Conservation Manager      | California Department of Fish & Wildlife, MPAs     | (650) 631-6789 |
| T           | Steve Wertz/Senior Environmental Scientist | California Department of Fish and Wildlife, Marine | (562) 343-3808 |
| T           | /  | US Fish and Wildlife Service, Federal T&E Species  | (805) 644-1766 |

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

Western snowy plovers nest from Mar-Sep and California least terns nest from Apr-Sep.

**Concerns and Advice to Responders:**

USE OF MECHANICAL EQUIPMENT WILL REQUIRE PRIOR DISCUSSION WITH THE RESERVE MANAGER.

The lagoon is habitat for an endangered fish. Two T/E birds nest in the dunes and upper beaches from Mar-Sep. Animals and habitat can be injured by oil/response activities unless responders minimize disturbance in lagoon, and associated vegetation; avoid disturbing the dunes and upper beaches; and only drive vehicles on wet sand; avoid trampling oil into sediments and follow protective conditions from IC and resource biologists.

**Hazard and Restrictions:**

Unhealthy levels of coliform bacteria have been found intermittently in streams and on beaches in this area. Use appropriate PPE, safety procedures, and include reference to potential health problems in any site safety plan.

**Site Strategies:**

**Strategy: 4-645.1 Objective:** Exclude Oil

*Strategy:* Deploy exclusion booms across the inlet to minimize the likelihood of oiling the estuary. Place the booms in a configuration that forms an adjustable oil collection pocket that can accommodate changes in flow direction. Back exclusion booms with sorbent booms to minimize leakage. Line the shorelines and any side channels within the inlet to prevent collateral oiling. If there is recoverable oil on-water, deploy sorbents and contact the IC immediately regarding the use of skimmers. Monitor, adjust, and replace booms as needed to maintain effectiveness.

Table of Response Resources

| Equipment | Sub-Type     | Size | Unit | QTY | Unit | Last Page Update |
|-----------|--------------|------|------|-----|------|------------------|
| Boom      | Swamp Boom   |      |      | 600 | feet |                  |
| Boom      | Sorbent Boom |      |      | 600 | feet |                  |
| Staff     |              |      |      | 5   |      |                  |
| Anchor    |              |      |      | 6   |      |                  |
| boat      | Skiff        |      |      | 1   |      |                  |
| skimmer   |              |      |      | 1   |      |                  |

**Logistics:**

*Directions:* From U.S. 101, North of Santa Barbara, take Storke road exit- south to Isla Vista (residential district for UCSB). At the corner of Storke and El Colegio roads, take Slough Road south west to the reserve area parking lot.

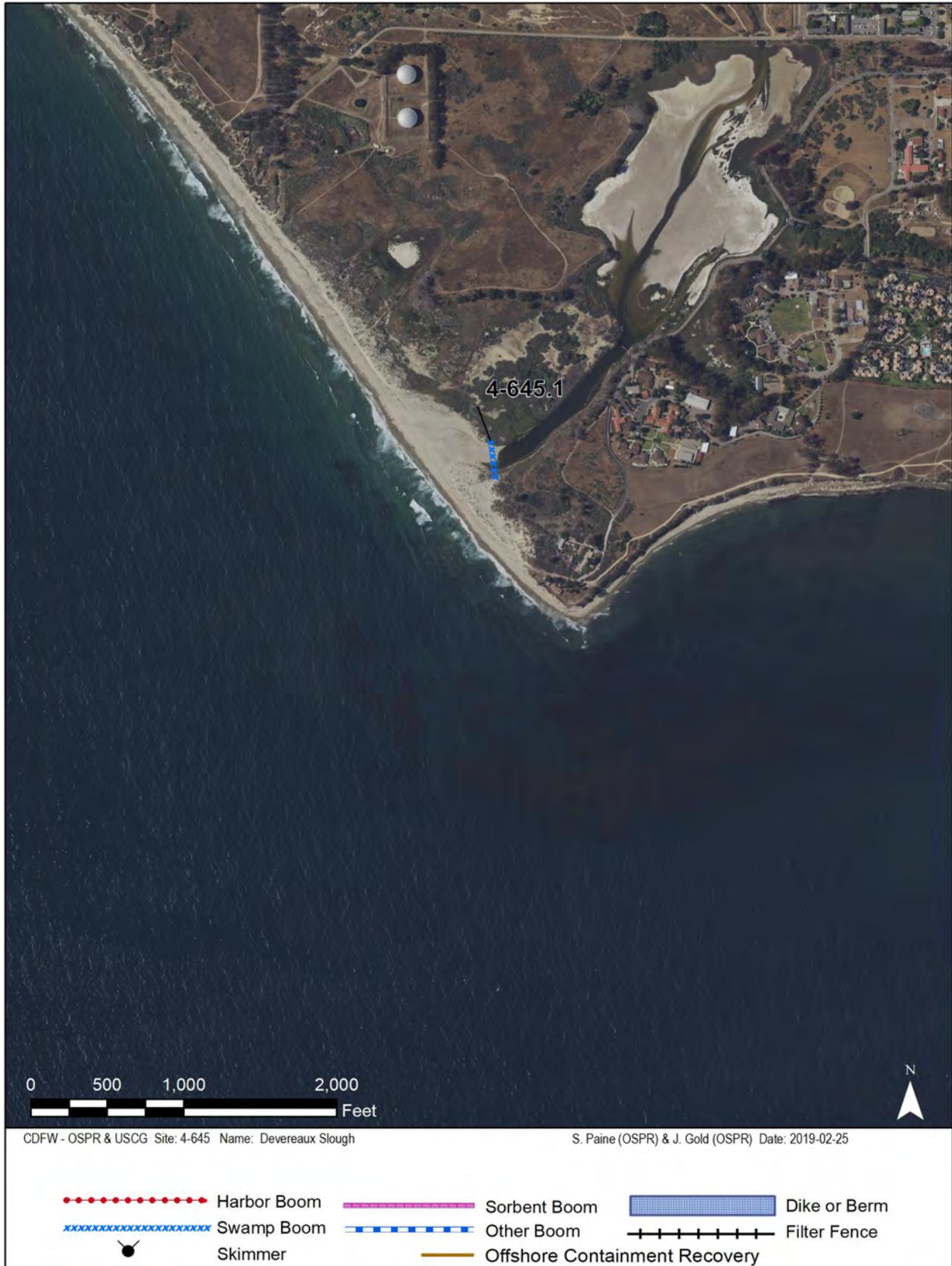
*Land Access:* A. Access - Two footpaths provide access to the slough and one footpath provides access to the beach. USE OF MECHANICAL EQUIPMENT WILL REQUIRE DISCUSSION WITH RESERVE MANAGER. If mechanical equipment is used, keep below high tide line on the wet sand, keep vehicle speed under 5mph and maintain radio communication with all vehicles on the beach. All beach access will be approved by IC under recommendation from agency resource biologist.

*On-Water Limitations:* Santa Barbara Harbor is the nearest full service civilian harbor for full service berthing, launching and fueling.

*Facilities, Staging Areas, Command Posts, Available Equipment:* Staging area: Coal Oil Point Reserve parking Potential command post sites: Contact UCSB Closest airport is in Santa Barbara, 2.5 miles east.

*Communications Problems:* none

*Additional Operational Comments:* Due to the occurrence of western snowy plovers and/or California least terns at this site, please review the Sandy Beach Site Summary and Strategies (Site 4-000-A) for information on response operations when dealing with these sensitive species. Response activities should avoid impacting the fragile dune vegetation. Moderate recreational use (primarily surfing) especially during the summer. Protect the Marine Protected Area (MPA) boundaries.



Imagery: NAIP 2016



**Index Map – GRA 6, Santa Barbara County East Environmental Sensitive Sites**

### 9812.2.3 GRA 6 Site Index

| <b>Site #</b> | <b>Site Name</b>                          | <b>Page #</b>              |
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| 4-650-C       | Goleta Point & Campus Lagoon              | <a href="#"><u>394</u></a> |
| 4-655-A       | Goleta Slough and Beach                   | <a href="#"><u>397</u></a> |
| 4-657-B       | More Mesa & Goleta Rocks                  | <a href="#"><u>401</u></a> |
| 4-660-A       | Arroyo Burro Creek                        | <a href="#"><u>404</u></a> |
| 4-662-C       | Leadbetter Beach                          | <a href="#"><u>408</u></a> |
| 4-665-C       | Santa Barbara Harbor                      | <a href="#"><u>411</u></a> |
| 4-670-A       | Mission Creek: Laguna Channel             | <a href="#"><u>415</u></a> |
| 4-672-A       | Sycamore Creek & Andree Clark Bird Refuge | <a href="#"><u>418</u></a> |
| 4-674-C       | Fernald Point                             | <a href="#"><u>422</u></a> |
| 4-677-C       | Loon Point & Elyse Creek                  | <a href="#"><u>426</u></a> |
| 4-680-A       | Arroyo Paredon Creek and Sandyland        | <a href="#"><u>430</u></a> |
| 4-685-A       | Carpinteria Marsh                         | <a href="#"><u>434</u></a> |
| 4-690-A       | Carpinteria Creek & State Beach           | <a href="#"><u>437</u></a> |

**4-650-C Site Summary - Goleta Point & Campus Lagoon****4-650-C****County :** Santa Barbara **ACP Division/Segment :** SB - O - S01 SB - P - S01**NOAA Chart :** 18721 **Map Book :** 494 B-C x 5-6 **Decimal Degrees :** 34.406525 -119.844585**Site Description:**

The Lagoon and Campus Point are on SE area of UCSB campus near the Marine Science Institute. Goleta Point is a combination of fine-grained sand beach and wave-cut rock platforms. The western portion of the beach, below the UCSB campus, is backed by rock rip rap. (NE of the point is a popular recreational beach.) Campus Lagoon is a 25-30 acre brackish water pond adjacent to Goleta Point, on the UCSB campus. Sea water is pumped into the lagoon at the eastern side (near the marine science institute) and discharges into the ocean on the southwest side. This lagoon is not subject to marine spills. Gurinion spawning occurs during the spring and summer high tides. Southern sea otters have been observed offshore. Common pacific littleneck clam and pismo clams are found on the beach. The boundaries of Goleta Point & Campus Lagoon occur within the boundaries of the Campus Point Marine Conservation Area.

**Resources at Risk:***ESI and Habitat:* 10A Salt - and brackish-water marshes

6B Riprap

3A Fine- to medium-grained sand beaches

2A Exposed wave-cut platforms in bedrock, mud, or clay

**List of Resources at Risk:**

|               | <b>Resource Name</b>       | <b>Status</b> | <b>Presence</b> |
|---------------|----------------------------|---------------|-----------------|
| Birds         | Western snowy plover       | FT            | Oct-Feb         |
| Birds         | shorebirds                 |               | Year-round      |
| Fish          | grunion                    |               | Mar-Aug         |
| Invertebrates | rocky intertidal resources |               | Year-round      |
| Plants        | eelgrass                   |               | Year-round      |

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

| <b>Type</b> | <b>Name/Title</b>                          | <b>Organization</b>                                | <b>Phone</b>   |
|-------------|--|--|----------------|
| C           | /  | Central Coast Archeological Information Center     | (805) 893-2474 |
| C           | /  | Native American Heritage Commission                | (916) 373-3710 |
| E           | /Campus Emergency Manager                  | University of California Santa Barbara             | (805) 450-1437 |
| E           | Dispatch 24 Hr/Campus Police               | University of California Santa Barbara             | (805) 893-3447 |
| O           | UCSB/Environmental Health and Safety       | University of California Santa Barbara             | (805) 893-8533 |
| T           | Becky Ota/Marine Protected Areas           | California Department of Fish and Wildlife         | (650) 631-6789 |
| T           | Steve Wertz/Senior Environmental Scientist | California Department of Fish and Wildlife, Marine | (562) 343-3808 |
| T           | /  | US Fish and Wildlife Service, Federal T&E Species  | (805) 644-1766 |

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

Wintering western snowy plovers can be found on this beach from Oct-Feb.

**Concerns and Advice to Responders:**

High use public beach.

**Hazard and Restrictions:**

A. Unhealthy levels of coliform bacteria have been found intermittently in streams and on beaches in the Santa Barbara County area. Use appropriate PPE, safety procedures, and include reference to potential health problems in any site safety plan.

B. Safety Considerations- Roads, trails, beach cliffs and hillsides may be unstable in wet weather. Beware of pedestrians, ticks, poison oak, and rattlesnakes. Care must be taken when working on beaches backed by high cliffs. Safe entries and exits from beaches in this area are related to tides and beach sand levels. Sand surface may be soft.

**Site Strategies:**

**Strategy: 4-650.1 Objective:** Shoreline Pre-Clean: Resource Specialist Supervision Required

*Strategy:* Consult with resource trustees regarding wildlife issues before undertaking this activity. Hand crews to move and store kelp, driftwood, vegetative debris, trash, and other materials above high-tide line. Dispose of trash. Replace unoiled debris in its former location once the threat of oiling is past.

Table of Response Resources

| Equipment | Sub-Type   | Size | Unit | QTY | Unit | Last Page Update |
|-----------|------------|------|------|-----|------|------------------|
| Vehicle   | ATV        |      |      | 1   |      |                  |
| Misc.     | Trash Bags |      |      |     |      |                  |
| Staff     |            |      |      | 5   |      |                  |

**Logistics:**

*Directions:* Campus Point Beach at the end of Lagoon Road on the UCSB campus near the Marine Science Institute.

*Land Access:* Access through UCSB campus. Must coordinate with campus police department.

*On-Water Limitations:* Santa Barbara Harbor is the nearest full service civilian harbor for full service berthing, launching and fueling.

*Facilities, Staging Areas, Command Posts, Available Equipment:* Potential staging at Goleta County Beach Park.

*Communications Problems:* None

*Additional Operational Comments:* Due to the probable occurrence of western snowy plovers and/or California least terns at this site, please review the Sandy Beach Site Summary and Strategies (Site 4-000-A) for information on response operations when dealing with these sensitive species. Protect the Marine Protected Area (MPA) boundaries.



Imagery: NAIP 2010 (Summer) 4-Band

**4-655-A Site Summary - Goleta Slough and Beach****4-655-A****County:** Santa Barbara **ACP Division/Segment:** SB - P - S01 SB - P - S02**NOAA Chart:** 18721 **Map Book:** 994 E x 4 **Decimal Degrees:** 34.4177 -119.8275**Site Description:**

The mouth of the slough runs through the Goleta Beach County Park. The majority of the inner slough is owned by the city of Santa Barbara; smaller portions are owned by UCSB and CDFW. The slough is frequently closed in the summer by the formation of a sand bar. The Goleta Pier and restaurant are west of the mouth. Goleta Slough is one of the largest wetlands in the region (350 acres). It is an important wildlife area. Brown pelicans, waterfowl, wading birds, shorebirds, seabirds, loons, grebes, cormorants, gulls and California least terns may be present. A few southern sea otters may be found and large kelp beds are common offshore. Goleta Slough is a State Marine Conservation Area. This area overlaps the Goleta Slough Ecological Reserve. Goleta Slough is dredged by the Santa Barbara County Flood Control District with the dredge spoils discharged onto the beach. Atascadero, Maria Ygnacio, San Jose and San Pedro Creek empty into the Goleta Slough. Goleta beach is a fine to medium-grained coastal strand sand beach backed by low bluffs or a long grass picnic area and parking lot. This sandy beach supports intertidal invertebrate species potentially including the globose dune beetle. Important plants that might occur include the red sand verbena and the southern tarplant.

**Resources at Risk:***ESI and Habitat:* 10A Salt - and brackish-water marshes

6B Riprap

3A Fine- to medium-grained sand beaches

**List of Resources at Risk:**

|            | <b>Resource Name</b>            | <b>Status</b> | <b>Presence</b> | <b>Sensitivity</b> |
|------------|---------------------------------|---------------|-----------------|--------------------|
| Amphibians | California red-legged frog      | FT, SSC       | Year-round      |                    |
| Birds      | Belding's savannah sparrow      | SE            | Year-round      |                    |
| Birds      | Western snowy plover            | FT, SSC       | Oct-Feb         |                    |
| Fish       | steelhead - Southern California | FE            | Year-round      |                    |
| Fish       | tidewater goby                  | FE, SSC       | Year-round      |                    |
| Fish       | California grunion              |               | Mar-Aug         |                    |
| Plants     | salt marsh bird's beak          | FE, SE        | Year-round      |                    |
| Reptiles   | southwestern pond turtle        | SSC           | Year-round      |                    |

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

| <b>Type</b> | <b>Name/Title</b>                            | <b>Organization</b>                               | <b>Phone</b>   |
|-------------|--|---|----------------|
| C           | /  | Central Coast Archeological Information Center    | (805) 682-4711 |
| C           | /Coordinator                                 | Native American Heritage Commission               | (916) 373-3710 |
| E           | /Santa Barbara County                        | Santa Barbara County Park Department              | (805) 568-2461 |
| O           | /Public Works                                | Santa Barbara County Flood Control                | (805) 568-3440 |
| O           | 24 Hr/Dispatch                               | Santa Barbara County Sheriff                      | (805) 683-2724 |
| T           | Steve Wertz/Senior Env. Scientist Supervisor | Califorina Department of Fish and Wildlife, MPAs  | (562) 343-3808 |
| T           | Mary Larson/Steelhead                        | California Department of Fish & Wildlife          | (562) 537-8624 |
| T           | /Marine Protected Areas                      | California Department of Fish and Wildlife        | (707) 445-6493 |
| T           | Rick Bush/Fisheries Biologist                | NOAA National Marine Fisheries Service            | (562) 980-3562 |
| T           | /  | US Fish and Wildlife Service, Federal T&E Species | (805) 644-1766 |

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

Grunion spawn from Mar-Aug and Western snowy plovers winter on the beach from Oct-Feb.

**Concerns and Advice to Responders:**

The lagoon, stream and beach provide habitat for both sensitive and T/E species (fishes, amphibians, invertebrates, birds, plants) which can be killed or injured by oil, response and clean-up activities. Responders should minimize disturbances in the stream, lagoon, beach and associated vegetation and avoid trampling oil into the sediments. Protective conditions should be followed from the IC and resource biologists.

**Hazard and Restrictions:**

Unhealthy levels of coliform bacteria have been found intermittently in streams and on beaches in the Santa Barbara County area. Use appropriate PPE, safety procedures, and include reference to potential health problems in any site safety plan.

**Site Strategies:****Site Validation Level: III****Strategy: 4-655.1 Objective:** Exclude Oil

*Strategy:* Deploy exclusion booms across the leading edge of the inlet. Place the booms in a configuration that forms an adjustable oil collection pocket that can accommodate changes in flow direction. Back exclusion booms with sorbent booms to minimize leakage. Line the shorelines and any side channels within the inlet to prevent collateral oiling. Only 200 feet of boom is needed to cover the estuary mouth.

Table of Response Resources

| Equipment | Sub-Type     | Size | Unit | QTY  | Unit | Last Page Update            |
|-----------|--------------|------|------|------|------|-----------------------------|
| Boom      | Swamp Boom   |      |      | 2000 | feet | <i>Strategy Updated:</i>    |
| Boom      | Sorbent Boom |      |      | 2000 | feet | <i>Last Test: 6/15/2022</i> |
| Vehicle   | ATV          |      |      | 1    |      |                             |
| Anchor    |              |      |      | 6    |      |                             |
| boat      | Skiff        |      |      | 1    |      |                             |
| skimmer   |              |      |      | 1    |      |                             |
| Staff     |              |      |      | 5    |      |                             |

**Strategy: 4-655.2 Objective:** Erect Filter Fence

*Strategy:* Construct a filter fence across the front of the channel where the inlet is narrowest, water flows are low or dry, the ground can receive and hold metal stakes, and the spill is heavy oil. Monitor barrier and replace pom-poms as necessary to maintain effectiveness.

Table of Response Resources

| Equipment | Sub-Type             | Size         | Unit   | QTY  | Unit  | Last Page Update            |
|-----------|----------------------|--------------|--------|------|-------|-----------------------------|
| Fence     | Construction Fencing | 4 x 100 feet |        | 20   | Rolls | <i>Strategy Updated:</i>    |
| Misc.     | Oil Snare (pom-pom)  |              |        | 4000 |       | <i>Last Test: 6/15/2022</i> |
| Stakes    | T-posts              |              | 6 feet | 200  |       |                             |
| Misc.     | Stake Driver         |              |        | 1    |       |                             |
| Vehicle   | ATV                  |              |        | 1    |       |                             |
| Staff     |                      |              |        | 7    |       |                             |

**Strategy: 4-655.3 Objective:** Shoreline Pre-Clean: Resource Specialist Supervision Required

*Strategy:* Consult with resource trustees regarding wildlife issues before undertaking this activity. Hand crews to move and store kelp, driftwood, vegetative debris, trash, and other materials above high-tide line. Dispose of trash. Replace uniled debris in its former location once the threat of oiling is past. If heavy equipment is required for this operation, request trustee consultation and IC for authorization.

Table of Response Resources

| Equipment | Sub-Type   | Size | Unit | QTY | Unit | Last Page Update |
|-----------|------------|------|------|-----|------|------------------|
| Vehicle   | ATV        |      |      | 1   |      |                  |
| Misc.     | Trash Bags |      |      |     |      |                  |
| Staff     | ATV        |      |      | 5   |      |                  |

**Logistics:**

*Directions:* From U.S. 101 (approx. 12 miles north of Santa Barbara) take hwy. 217, take Sand Spit Rd exit and follow signs to Goleta Beach County Park.

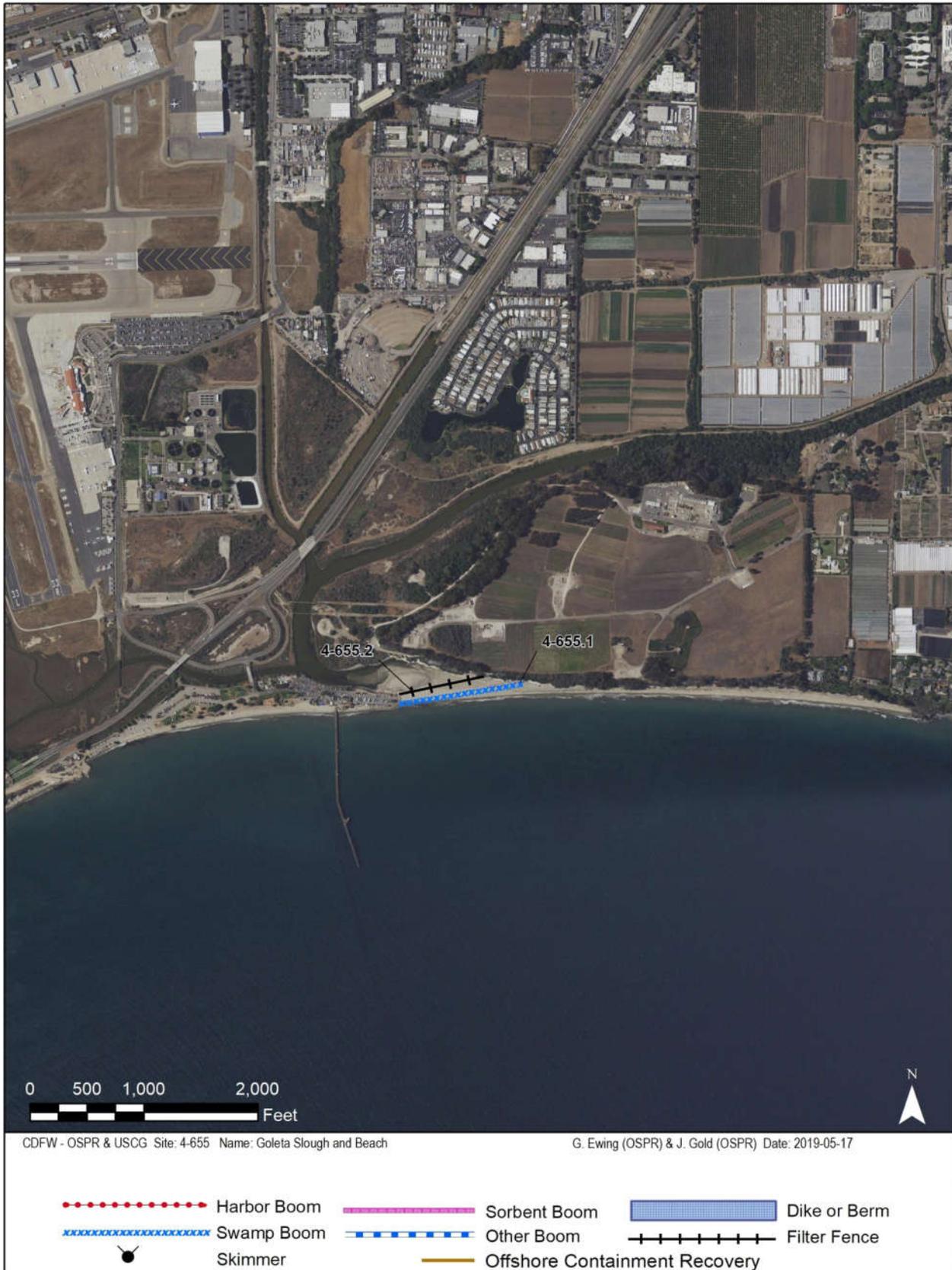
*Land Access:* Goleta Slough and Beach are only accessible through SB County Parks. Beach access road may need to be regraded before vehicles can enter or exit beaches. Upstream areas of Slough are accessible at Fairview and Patterson Ave.

*On-Water Limitations:* Santa Barbara Harbor is the nearest full service civilian harbor for full service berthing, launching and fueling.

*Facilities, Staging Areas, Command Posts, Available Equipment:* Staging should occur on paved areas within Goleta Beach County Park when possible.

*Communications Problems:*

*Additional Operational Comments:* Due to the probable occurrence of western snowy plovers, please review the Sandy Beach Site Summary and Strategies (Site 4-000-A) for information on response operations when dealing with these sensitive species. Protect the Marine Protected Area (MPA) boundaries.



Imagery: NAIP 2016

**4-657-B Site Summary - More Mesa & Goleta Rocks****4-657-B****County :** Santa Barbara **ACP Division/Segment :** SB - P - S02**NOAA Chart :** 18721**Map Book :** 994 E-J x 4**Decimal Degrees :**34.4161 -119.80837**Site Description:**

This site is east of Goleta Beach County Park and is backed by More Mesa cliffs. The shoreline is fine-grained sand beach backed by the More Mesa bluffs. Offshore are the Goleta Rocks where harbor seals haul out.

**Resources at Risk:***ESI and Habitat:* 3A Fine- to medium-grained sand beaches

2A Exposed wave-cut platforms in bedrock, mud, or clay

1A Exposed Rocky Shore

**List of Resources at Risk:**

|               | <b>Resource Name</b>       | <b>Status</b> | <b>Presence</b> |
|---------------|----------------------------|---------------|-----------------|
| Birds         | Western snowy plover       | FT            | Oct-Feb         |
| Birds         | shorebirds                 |               | Year-round      |
| Invertebrates | rocky intertidal resources |               | Year-round      |
| Mammals       | harbor seal                | FP            | Year-round      |

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

| <b>Type</b> | <b>Name/Title</b>                        | <b>Organization</b>                            | <b>Phone</b>   |
|-------------|--|--|----------------|
| C           | /  | Central Coast Archeological Information Center | (805) 893-2474 |
| C           | /  | Native American Heritage Commission            | (916) 373-3710 |
| E           | /Santa Barbara County                    | Santa Barbara County Park Department           | (805) 568-2461 |
| O           | 24 Hr/Dispatch                           | Santa Barbara County Sheriff                   | (805) 683-2724 |
| T           | Justin Viezbicke/Marine Mammal Stranding | NOAA National Marine Fisheries Service         | (562) 506-4315 |
| T           | /  | US Fish and Wildlife Service, Ventura Office   | (805) 644-1766 |

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

Dec through May for harbor seal pupping and breeding and year round for harbor seal haul out. Harbor seal maximum count to date is 70. Wintering western snowy plovers may occur from Oct-Feb. Surfperch, common pacific littleneck clams and pismo clams may be present.

**Concerns and Advice to Responders:**

Primary spill threat from marine source. Inshore waters and shorelines contain sensitive habitat for invertebrates, birds, and marine mammals which can be injured or killed by oil. Because there are no practicable onshore response strategies for protecting these resources, it is best to collect and/or disperse oil offshore, before it reaches inshore areas or the shoreline. During pre-cleaning and/or cleanup, responders should minimize disturbance in the dunes and on upper beaches; drive vehicles on wet sand, and follow protective conditions from IC and resource biologists.

**Hazard and Restrictions:**

Unhealthy levels of coliform bacteria have been found intermittently in streams and on beaches in this area. Use appropriate PPE, safety procedures, and include reference to potential health problems in any site safety plan.

**Site Strategies:**

**Strategy: 4-657.1 Objective:** Shoreline Pre-Clean: Resource Specialist Supervision Required

*Strategy:* Consult with resource trustees regarding wildlife issues before undertaking this activity. Hand crews to move and store kelp, driftwood, vegetative debris, trash, and other materials above high-tide line. Dispose of trash. Replace unoiled debris in its former location once the threat of oiling is past.

Table of Response Resources

| Equipment | Sub-Type   | Size | Unit | QTY | Unit | Last Page Update |
|-----------|------------|------|------|-----|------|------------------|
| Misc.     | Trash Bags |      |      |     |      |                  |
| Staff     |            |      |      | 5   |      |                  |
| Vehicle   | ATV        |      |      | 1   |      |                  |

**Logistics:**

*Directions:* Beach access from Goleta Beach County Park to the west. Land above the site is private property, access from there uncertain.

*Land Access:* Goleta Beach and south margin of Goleta Slough are accessible only through permission from SB County Parks. Beach access roads may require regarding before vehicles can enter or exit beaches. Barriers to longshore movement are variable according to tide and sand levels.

*On-Water Limitations:* Santa Barbara Harbor is the nearest full service civilian harbor for full service berthing, launching and fueling.

*Facilities, Staging Areas, Command Posts, Available Equipment:*

*Communications Problems:*



Imagery: NAIP 2010 (Summer) 4-Band

**County:** Santa Barbara **ACP Division/Segment:** SB - Q - S03**NOAA Chart:** 18721**Map Book:** 995 E x 6**Decimal Degrees:** 34.4026 -119.7429**Site Description:**

Arroyo Burro Creek passes through steep sided bluffs, opening out into a small lagoon near the beach. The mouth can be open any time of year, but it is most commonly open during the rainy season. To the east and west are extensive beaches typically fine to medium-grained sand in the summer and bedrock, boulders, and mixed sand and gravel in the winter. Offshore are moderate kelp and surf grass beds and moderate to calm surf conditions. The Santa Barbara Mariculture Co. grows various shellfish offshore of Arroyo Burro Creek.

**Resources at Risk:***ESI and Habitat:* 10A Salt - and brackish-water marshes

9B Vegetated low banks

3A Fine- to medium-grained sand beaches

2A Exposed wave-cut platforms in bedrock, mud, or clay

**List of Resources at Risk:**

|            | Resource Name              | Status  | Presence   | Sensitivity |
|------------|----------------------------|---------|------------|-------------|
| Amphibians | California red-legged frog | FT, SSC | Year-round |             |
| Birds      | shorebirds                 |         | Year-round |             |
| Fish       | tidewater goby             | FE, SSC | Year-round |             |
| Fish       | California grunion         |         | Mar-Aug    |             |
| Reptiles   | southwestern pond turtle   | SSC     | Year-round |             |

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

| Type | Name/Title            | Organization                                      | Phone          |
|------|-----------------------|---|----------------|
| C    | /                     | Central Coast Archeological Information Center    | (805) 893-2474 |
| C    | /                     | Native American Heritage Commission               | (916) 373-3710 |
| E    | /Santa Barbara County | Santa Barbara County Park Department              | (805) 568-2461 |
| O    | 24 Hr/Dispatch        | Santa Barbara County Sheriff                      | (805) 683-2724 |
| T    | /                     | US Fish and Wildlife Service, Federal T&E Species | (805) 644-1766 |

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

California grunion might occur on the beach from March through August.

**Concerns and Advice to Responders:**

Primary spill threat from marine source. Objectives are to minimize oiling of lagoon and pre-clean debris from beach. The lagoon is habitat for sensitive species. Both habitat and species can be injured by oil and response/cleanup activities unless responders minimize disturbance in stream, lagoon, and associated vegetation; avoid trampling oil into sediments; and follow protective conditions from IC and resource biologists.

**Hazard and Restrictions:**

Water Contamination - Unhealthy levels of coliform bacteria have been found intermittently in streams and on beaches in the Santa Barbara County area. Use appropriate PPE, safety procedures, and include reference to potential health problems in any site safety plan.

**Site Strategies:****Site Validation Level: V****Strategy: 4-660.1 Objective:** Exclude Oil

*Strategy:* Deploy exclusion booms across the inlet to minimize the likelihood of oiling the estuary. Place the booms in a configuration which forms an oil collection pocket which can be adjusted to accommodate changes in flow direction. Back exclusion booms with sorbent booms to minimize leakage. Line the shorelines and any side channels within the inlet to prevent collateral oiling.

Table of Response Resources

| Equipment | Sub-Type     | Size | Unit | QTY | Unit | Last Page Update             |
|-----------|--------------|------|------|-----|------|------------------------------|
| Boom      | Swamp Boom   |      |      | 300 | feet | <i>Strategy Updated:</i>     |
| Boom      | Sorbent Boom |      |      | 300 | feet | <i>Last Test: 11/10/2020</i> |
| Anchor    |              |      |      | 6   |      |                              |
| Staff     |              |      |      | 5   |      |                              |

**Strategy: 4-660.2 Objective:** Erect Filter Fence

*Strategy:* Construct a filter fence across the front of the channel where the inlet is narrowest, water flows are low or dry, the ground can receive and hold metal stakes, and the spill is heavy oil. Monitor barrier and replace pom-poms as necessary to maintain effectiveness.

Table of Response Resources

| Equipment | Sub-Type             | Size         | Unit   | QTY | Unit  | Last Page Update             |
|-----------|----------------------|--------------|--------|-----|-------|------------------------------|
| Fence     | Construction Fencing | 4 x 100 feet |        | 3   | Rolls | <i>Strategy Updated:</i>     |
| Misc.     | Oil Snare (pom-pom)  |              |        | 480 |       | <i>Last Test: 11/10/2020</i> |
| stakes    | T-posts              |              | 6 feet | 30  |       |                              |
| Misc.     | Stake Driver         |              |        | 1   |       |                              |
| Staff     |                      |              |        | 5   |       |                              |

**Strategy: 4-660.3 Objective:** Shoreline Pre-Clean: Resource Specialist Supervision Required

*Strategy:* Consult with resource trustees regarding wildlife issues before undertaking this activity. Hand crews to move and store kelp, driftwood, vegetative debris, trash, and other materials above high-tide line. Dispose of trash. Replace unoiled debris in its former location once the threat of oiling is past.

Table of Response Resources

| Equipment | Sub-Type   | Size | Unit | QTY | Unit | Last Page Update |
|-----------|------------|------|------|-----|------|------------------|
| Vehicle   | ATV        |      |      | 1   |      |                  |
| Misc.     | Trash Bags |      |      |     |      |                  |
| Staff     |            |      |      | 5   |      |                  |

**Logistics:**

*Directions:* From US 101 exit at Las Positas (Hwy. 225), go south for 4 miles to Cliff Dr., turn right (west), go 1/4 mile to Arroyo Burro County Beach (Hendry's beach) entrance.

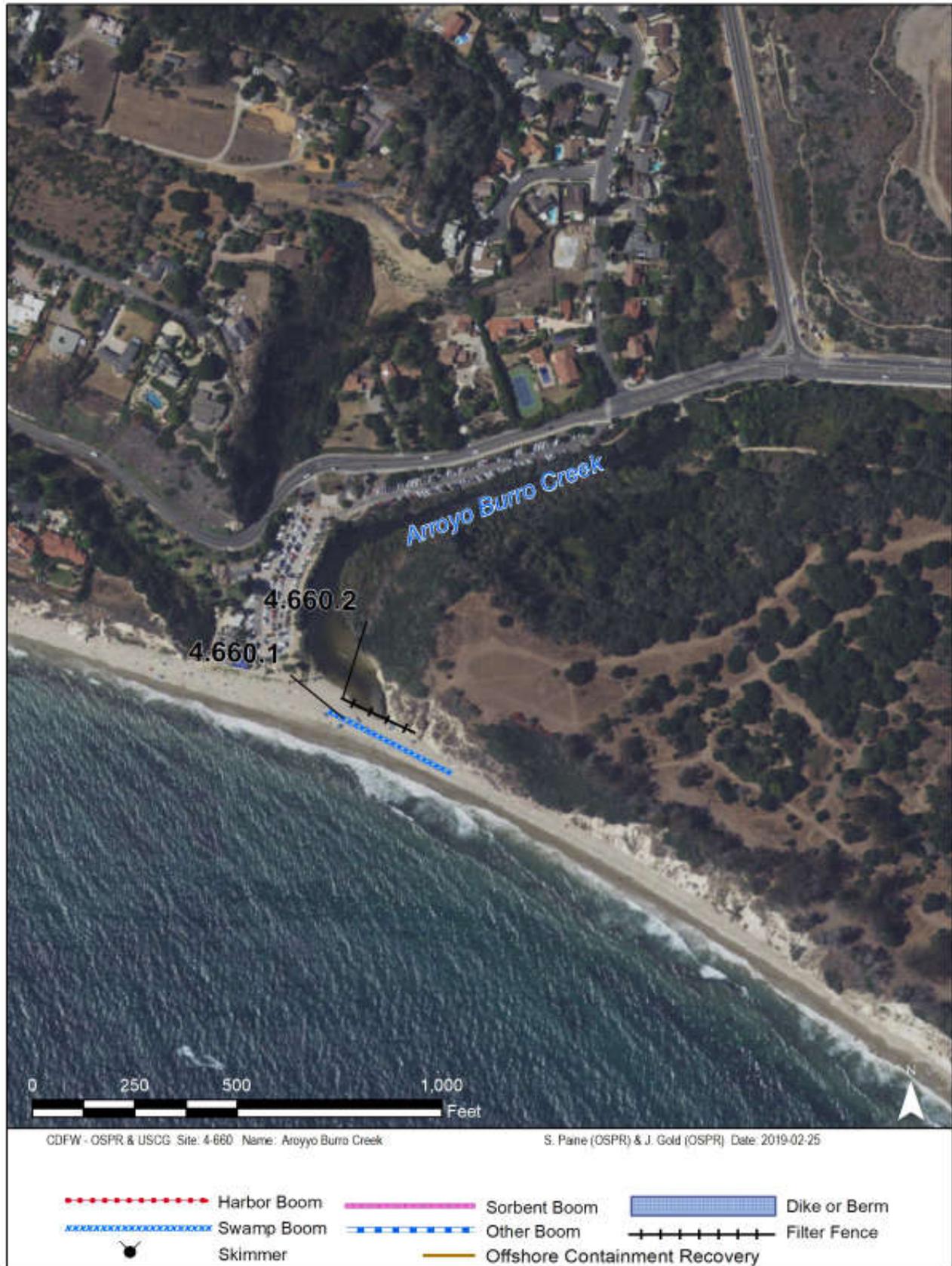
*Land Access:* ATV, 4WD and heavy equipment access to the beach and creek mouth is available behind the restaurant.

*On-Water Limitations:* Santa Barbara Harbor is the nearest full service civilian harbor for full service berthing, launching

and fueling.

*Facilities, Staging Areas, Command Posts, Available Equipment:* There is a large public parking area adjacent to the creek lagoon.

*Communications Problems:* None



**4-662-C Site Summary - Leadbetter Beach****4-662-C****County :** Santa Barbara **ACP Division/Segment :** SB - R - S01**NOAA Chart :** 18721**Map Book :** 995 and 996**Decimal Degrees :**34.40111 -119.69833**Site Description:**

Leadbetter beach is a heavily used recreational beach comprised of wide fine-grained sand. It is approx. 3/4 mile long, extending from Santa Barbara point to the beginning of the breakwater at S.B. harbor.

Erosion/deposition of sand appears to occur on a winter/summer basis, however, there is usually little, if any, coarser-grained sediments. Nearshore sea conditions are usually mild. During the spring and summer, grunion spawning can occur on this beach. Seabirds and shorebirds are present.

**Resources at Risk:***ESI and Habitat:* 3A Fine- to medium-grained sand beaches**List of Resources at Risk:**

|       | <b>Resource Name</b> | <b>Status</b> | <b>Presence</b> |
|-------|----------------------|---------------|-----------------|
| Birds | seabirds             |               | Year-round      |
| Birds | shorebirds           |               | Year-round      |
| Fish  | grunion              |               | Mar-Aug         |

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

| <b>Type</b> | <b>Name/Title</b> | <b>Organization</b>                               | <b>Phone</b>   |
|-------------|-------------------|---|----------------|
| C           | /                 | Central Coast Archeological Information Center    | (805) 893-2474 |
| C           | /                 | Native American Heritage Commission               | (916) 373-3710 |
| E           | Main Number/      | City of Santa Barbara Parks and Recreation        | (805) 564-5418 |
| T           | /                 | US Fish and Wildlife Service, Federal T&E Species | (805) 644-1766 |

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

March-August for grunion spawning on the beach.

**Concerns and Advice to Responders:**

Primary spill threat from marine source. Inshore waters and shorelines contain sensitive habitat for invertebrates, birds, and marine mammals which can be injured or killed by oil. Because there are no practicable onshore response strategies for protecting these resources, it is best to collect and/or disperse oil offshore, before it reaches inshore areas or the shoreline. During pre-cleaning and/or cleanup, responders should minimize disturbance in the dunes and on upper beaches; drive vehicles on wet sand, and follow protective conditions from IC and resource biologists.

**Hazard and Restrictions:**

Unhealthy levels of coliform bacteria have been found intermittently in streams and on beaches in this area. Use appropriate PPE, safety procedures, and include reference to potential health problems in any site safety plan.

**Site Strategies:**

**Strategy: 4-662.1 Objective:** Shoreline Pre-Clean: Resource Specialist Supervision Required

*Strategy:* Shoreline Precleaning - Consult with resource trustees regarding wildlife issues before undertaking this activity. Hand crews to move and store kelp, driftwood, vegetative debris, trash, and other materials above high-tide line. Dispose of trash. Replace unoiled debris in its former location once the threat of oiling is past. If heavy equipment is required for this operation, request trustee consultation and IC for authorization.

Table of Response Resources

| Equipment | Sub-Type   | Size | Unit | QTY | Unit | Last Page Update |
|-----------|------------|------|------|-----|------|------------------|
| Vehicle   | ATV        |      |      | 1   |      |                  |
| Misc.     | Trash Bags |      |      |     |      |                  |
| Staff     |            |      |      | 5   |      |                  |

**Logistics:**

*Directions:* From Hwy 101 (in Santa Barbara) take the Castillo St. exit, head SE to Cabrillo Blvd, turn right, go two miles to the beach entrance. There is a large parking lot with excellent vehicular access to the beach. Also one restaurant is present.

*Land Access:* Access for ATV, 4WD, and Heavy Equipment on beach.

*On-Water Limitations:* Santa Barbara Harbor is the nearest full service civilian harbor for full service berthing, launching and fueling.

*Facilities, Staging Areas, Command Posts, Available Equipment:* Waterfront Department Conference Room could be used as a staging area/command post.

*Communications Problems:*

*Additional Operational Comments:* Due to the probable occurrence of western snowy plovers and/or California least terns at this site, please review the Sandy Beach Site Summary and Strategies (Site 4-000-A) for information on response operations when dealing with these sensitive species.



Imagery: NAIP 2010 (Summer) 4-Band

**4-665-C Site Summary - Santa Barbara Harbor****4-665-C****County :** Santa Barbara **ACP Division/Segment :** SB - R - S02 SB - R - S03**NOAA Chart :** 18725(d) **Map Book :** 996 B-C x 5-6 **Decimal Degrees :** 34.40722 -119.68778**Site Description:**

This site extends from Santa Barbara Harbor to Stearns Warf. Santa Barbara harbor is protected by a 0.25 mile long, south facing breakwater which is connected to a 0.25 mile long west facing sand bar. The harbor is dredged almost year round to keep it open. Stearns Wharf (approximately 0.65 miles long) is less than 0.25 mile east of the harbor entrance. Seabirds congregate on the breakwater, sand bar, in the harbor and at Stearns Wharf year round.

**Resources at Risk:**

- ESI and Habitat:* 8C Sheltered riprap  
 8B Sheltered solid man-made structures  
 6B Riprap  
 3A Fine- to medium-grained sand beaches  
 1B Exposed solid man-made structures

**List of Resources at Risk:**

|               | <b>Resource Name</b>       | <b>Status</b> | <b>Presence</b> |
|---------------|----------------------------|---------------|-----------------|
| Birds         | California least tern      | SE            | Apr-Sep         |
| Birds         | seabirds                   |               | Year-round      |
| Birds         | Western snowy plover       | FT            | Year-round      |
| Invertebrates | rocky intertidal resources |               | Year-round      |

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

| <b>Type</b> | <b>Name/Title</b> | <b>Organization</b>                            | <b>Phone</b>   |
|-------------|-------------------|--|----------------|
| C           | /                 | Central Coast Archeological Information Center | (805) 893-2474 |
| C           | /                 | Native American Heritage Commission            | (916) 373-3710 |
| E           | Stearns Wharf/    | City of Santa Barbara                          | (805) 564-5518 |
| O           | /Harbor Patrol    | City of Santa Barbara                          | (805) 564-5530 |
| O           | /Fuel Dock        | City of Santa Barbara Harbor                   | (805) 962-7186 |

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

California least terns may be found foraging in the harbor from Apr-Sep. Also, historically Western snowy plovers have nested (Mar-Sept) on the sand spit near the harbor entrance. However, they have not been observed there in recent years.

**Concerns and Advice to Responders:**

The primary objective is to protect the harbor from environmental and economic injuries by excluding oil. Responders may also have to respond to spills that originate from inside the harbor. It is critical to mount a rapid response to control, contain, and cleanup the spill before it affects resources inside the harbor.

**Hazard and Restrictions:**

A. Water Contamination - Unhealthy levels of coliform bacteria have been found intermittently in Santa Barbara County. Use appropriate PPE, safety procedures, and include reference to potential health problems in any site safety plan.

B. Safety Considerations - Beware of boat traffic, pedestrians, waves, fuel vapors, slips, trips and falls. Account for tides, surf, and weather during operations.

**Site Strategies:**

**Strategy: 4-665.1 Objective:** Exclude Oil

*Strategy:* A. Harbor Entrance - Deploy two exclusion booms across the harbor entrance (see diagram for boom orientation). Configure boom so that the oil is deflected to sandy beach for shoreline clean-up.

B. Place a harbor boom along the inside of the outer breakwater to collect oil seeping through or splashing over rocks. Line the inside of the harbor boom with sorbent booms to minimize leakage.

C. Oil Recovery - If there is recoverable oil present, deploy sorbents immediately and contact the IC regarding the use of skimmers.

D. Monitor and Maintain Booms - Constant monitoring and maintenance of booms will be necessary. Check for boom effectiveness and integrity, overwash, leakage problems, boom positioning, security, and sorbent replacement as necessary.

Table of Response Resources

| Equipment | Sub-Type      | Size | Unit | QTY  | Unit | Last Page Update |
|-----------|---------------|------|------|------|------|------------------|
| Boom      | Harbor Boom   |      |      | 4000 | feet |                  |
| Boom      | Sorbent Boom  |      |      | 2500 | feet |                  |
| Staff     |               |      |      | 14   |      |                  |
| Anchor    | Danforth      |      |      | 2    |      |                  |
| Vessel    | Boom Boat     |      |      | 2    |      |                  |
| Vessel    | Skiff or Punt |      |      | 2    |      |                  |
| skimmer   |               |      |      | 1    |      |                  |

**Strategy: 4-665.2 Objective:** Deploy Containment Boom

*Strategy:* When the source of the spill originates inside the harbor, surround the source of the spill with hard boom backed by sorbents. If needed, add secondary booms. Contact Incident Command immediately regarding appropriate recovery methods. NOTE: GASOLINE VAPORS ARE HIGHLY FLAMMABLE. USE EXXTREME CAUTION.

Table of Response Resources

| Equipment | Sub-Type     | Size | Unit | QTY | Unit | Last Page Update |
|-----------|--------------|------|------|-----|------|------------------|
| Boom      | Harbor Boom  |      |      | 200 | feet |                  |
| Boom      | Sorbent Boom |      |      | 200 | feet |                  |
| Staff     |              |      |      | 3   |      |                  |

**Strategy: 4-665.3 Objective:** Shoreline Pre-Clean: Resource Specialist Supervision Required

*Strategy:* Consult with resource trustees regarding wildlife issues before undertaking this activity. Hand crews to move and store kelp, driftwood, vegetative debris, trash, and other materials above high-tide line. Dispose of trash. Replace unoiled debris in its former location once the threat of oiling is past.

Table of Response Resources

| Equipment | Sub-Type   | Size | Unit | QTY | Unit | Last Page Update |
|-----------|------------|------|------|-----|------|------------------|
| Staff     |            |      |      | 5   |      |                  |
| Misc.     | Trash Bags |      |      |     |      |                  |

### Logistics:

*Directions:* From U.S. 101 take Castillo st. exit, follow signs to harbor.

*Land Access:* Contact Santa Barbara Harbor Patrol for spill information, keys to access beaches, gated docks and marinas, berthing space, and boat assistance. Parking lot between Shoreline Drive and the Harbor has a parking kiosk when entering and exiting. Inform the attendant you are responding to a spill in the harbor.

*On-Water Limitations:* Santa Barbara Harbor is a full service civilian harbor with berthing, launching and fueling.

*Facilities, Staging Areas, Command Posts, Available Equipment:* The launch ramp is in the marina; the crane hoist is at the commercial dock. Staging of equipment in marina parking lot or dock requires permission from Harbormaster. Restaurants, public restrooms, marine supplies, drydock and other activities are present.

*Communications Problems:* None

*Additional Operational Comments:* Due to the probable occurrence of western snowy plovers and/or California least terns at this site, please review the Sandy Beach Site Summary and Strategies (Site 4-000-A) for information on response operations when dealing with these sensitive species.



Imagery: NAIP 2010 (Summer) 4-Band

**4-670-A Site Summary - Mission Creek: Laguna Channel****4-670-A****County :** Santa Barbara **ACP Division/Segment :** SB - R - S03**NOAA Chart :** 18725(d)**Map Book :** 996 C x 5**Decimal Degrees :**34.4125 -119.68667**Site Description:**

Stretch of wide, sandy beach extending from Stearns Wharf on the West to Laguna Channel to the East. Fine to medium-grained beach, backed by a low-lying grassy park or parking lots. Mission creek estuary is near Stearns Wharf, this is the most diverse and sensitive and the mouth is frequently open. Laguna channel is a drainage containment sump which collects runoff water from the lower east side of santa barbara; it is normally closed to the ocean by a flood gate. Accumulated water is pumped to the ocean across the beach (during low tides and significant flow events the gates are raised to allow accumulated water to discharge seaward). There is a small estuary which ponds on the beach. Fine to medium-grained beach, backed by a low-lying grassy park or parking lots. March-August for grunion spawning on the beach. Western snowy plovers can be present during the fall and winter but do not nest on this beach.

**Resources at Risk:***ESI and Habitat:* 10A Salt - and brackish-water marshes

9B Vegetated low banks

3A Fine- to medium-grained sand beaches

**List of Resources at Risk:**

|       | <b>Resource Name</b>            | <b>Status</b> | <b>Presence</b> |
|-------|---------------------------------|---------------|-----------------|
| Birds | shorebirds                      |               | Year-round      |
| Birds | seabirds                        |               | Year-round      |
| Birds | Western snowy plover            | FT            | Oct-Feb         |
| Fish  | steelhead - Southern California | FE            | Year-round      |
| Fish  | tidewater goby                  | FE            | Year-round      |
| Fish  | grunion                         |               | Mar-Aug         |

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

| <b>Type</b> | <b>Name/Title</b>               | <b>Organization</b>                               | <b>Phone</b>   |
|-------------|---------------------------------|---|----------------|
| C           | /                               | Central Coast Archeological Information Center    | (805) 893-2474 |
| C           | /                               | Native American Heritage Commission               | (916) 373-3710 |
| E           | /Cabrillo Bathhouse             | City of Santa Barbara                             | (805) 897-2680 |
| E           | After Hours/Emergency           | City of Santa Barbara Parks and Recreation        | (805) 963-4286 |
| E           | Main Number/                    | City of Santa Barbara Parks and Recreation        | (805) 564-5418 |
| T           | Mary Larson/Fisheries Biologist | California Department of Fish and Wildlife, Reg 5 | (562) 537-8624 |
| T           | Rick Bush/Fisheries Biologist   | NOAA National Marine Fisheries Service            | (562) 980-3562 |
| T           | /                               | US Fish and Wildlife Service, Federal T&E Species | (805) 644-1766 |

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

Highly used public location with lots of vehicle and foot traffic.

**Concerns and Advice to Responders:**

The lagoon is habitat for Threatened/Endangered fishes and other sensitive species which can be killed or injured by oil, response and clean-up activities. Responders should minimize disturbances in the stream, lagoon, and associated vegetation and avoid trampling oil into the sediments. Protective conditions should be followed from the IC and resource biologists.

**Hazard and Restrictions:**

Unhealthy levels of coliform bacteria have been found intermittently in streams and on beaches in this area. Use appropriate PPE, safety procedures, and include reference to potential health problems in any site safety plan.

Access and exits to and from beaches are related to tides and beach sand levels- YOU MAY GET STRANDED ON THE BEACH - Plan accordingly.

**Site Strategies:**

**Strategy: 4-670.1 Objective:** Exclude Oil

*Strategy:* Deploy exclusion booms across the leading edge of the inlet. Place the booms in a configuration that forms an adjustable oil collection pocket that can accommodate changes in flow direction. Back exclusion booms with sorbent booms to minimize leakage. Line the shorelines and any side channels within the inlet to prevent collateral oiling.

Table of Response Resources

| Equipment | Sub-Type     | Size | Unit | QTY  | Unit | Last Page Update |
|-----------|--------------|------|------|------|------|------------------|
| Boom      | Swamp Boom   |      |      | 1600 | feet |                  |
| Boom      | Sorbent Boom |      |      | 1600 | feet |                  |
| Anchor    |              |      |      | 8    |      |                  |
| Staff     |              |      |      | 8    |      |                  |

**Strategy: 4-670.2 Objective:** Shoreline Pre-Clean: Resource Specialist Supervision Required

*Strategy:* Consult with resource trustees regarding wildlife issues before undertaking this activity. Hand crews to move and store kelp, driftwood, vegetative debris, trash, and other materials above high-tide line. Dispose of trash. Replace unoiled debris in its former location once the threat of oiling is past.

Table of Response Resources

| Equipment | Sub-Type   | Size | Unit | QTY | Unit | Last Page Update |
|-----------|------------|------|------|-----|------|------------------|
| Staff     |            |      |      | 8   |      |                  |
| Misc.     | Trash Bags |      |      |     |      |                  |
| Vehicle   | ATV        |      |      | 1   |      |                  |

**Logistics:**

*Directions:* From U.S. 101 take Castillo st. exit South, turn left on Cabrillo blvd., East Beach area begins east of Stearns Wharf. Parking lots all along the beach.

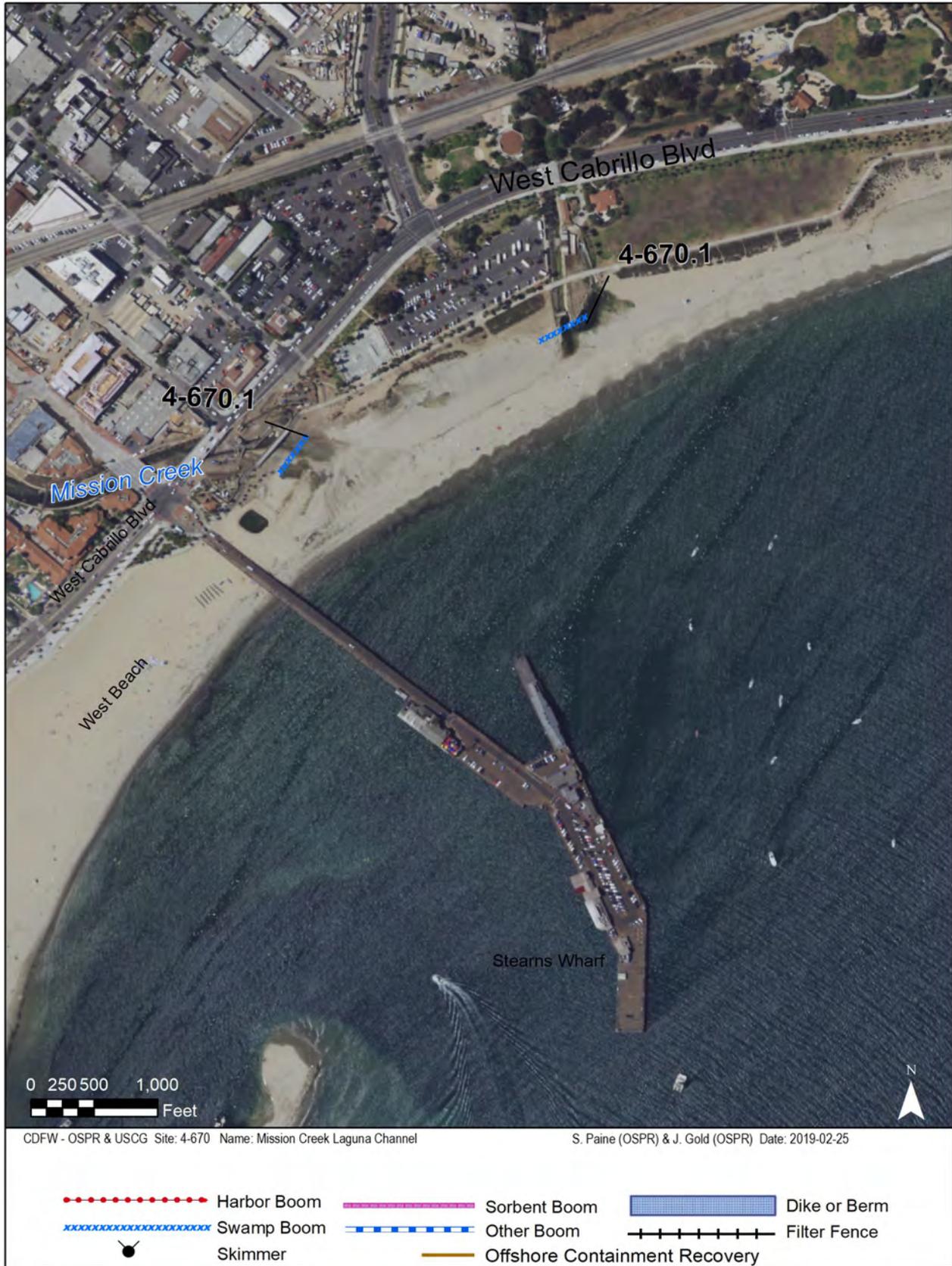
*Land Access:* Contact the City of Santa Barbara to access beaches. Parking lots between Cabrillo Blvd and the beach have parking kiosks, when entering and exiting, inform the attendant you are responding to a spill on the local beach. Most beach parking lots have an access ramp to beach suitable for all vehicles and heavy equipment. Under most circumstances, the beaches are accessible for all vehicles and equipment.

*On-Water Limitations:* Santa Barbara Harbor is the nearest full service civilian harbor for full service berthing, launching and fueling.

*Facilities, Staging Areas, Command Posts, Available Equipment:* Access and staging areas from various parking lots. Launch ramp at east end of the harbor. Public restrooms, marine supplies, restaurants, and hotels onsite or nearby. Field Command Post at Santa Barbara Harbor or MSD USCG. Santa Barbara airport is nearby.

*Communications Problems:* None

*Additional Operational Comments:* Due to the probable occurrence of western snowy plovers and/or California least terns at this site, please review the Sandy Beach Site Summary and Strategies (Site 4-000-A) for information on response operations when dealing with these sensitive species.



Imagery: NAIP 2016

**4-672-A Site Summary - Sycamore Creek & Andree Clark Bird Refuge****4-672-A****County :** Santa Barbara **ACP Division/Segment :** SB - R - S03 SB - R - S04**NOAA Chart :** 18725(d)**Map Book :** 996 E-F x 4**Decimal Degrees :**34.41667 -119.66583**Site Description:**

A stretch of wide, sandy beach extending from Sycamore Creek on the West, to just East of the outlet for the bird refuge. Fine to medium-grained beach, backed by a low-lying grassy park or parking lots. There are two estuaries of concern. Sycamore Creek estuary is a small brackish water ponded area on the upper beach. This small estuary sometimes dries up. The second area of concern is the brackish water ponded area at the south side of the Andre Clark Bird Refuge (created by the outflow of the bird refuge). The bird refuge is a 30-acre lake inland of Cabrillo Blvd. that connects to the ocean through a channel running under the street and onto the beach. The channel can be closed by a weir operated by the city.

**Resources at Risk:***ESI and Habitat:* 10B Freshwater marshes

9B Vegetated low banks

3A Fine- to medium-grained sand beaches

**List of Resources at Risk:**

|       | Resource Name                   | Status | Presence   |
|-------|---------------------------------|--------|------------|
| Birds | shorebirds                      |        | Year-round |
| Birds | Western snowy plover            | FT     | Oct-Feb    |
| Birds | seabirds                        |        | Year-round |
| Birds | waterfowl                       |        | Year-round |
| Fish  | steelhead - Southern California | FE     | Year-round |
| Fish  | tidewater goby                  | FE     | Year-round |
| Fish  | grunion                         |        | Mar-Aug    |

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

| Type | Name/Title                    | Organization                                      | Phone          |
|------|-------------------------------|---|----------------|
| C    | /                             | Central Coast Archeological Information Center    | (805) 893-2474 |
| C    | /                             | Native American Heritage Commission               | (916) 373-3710 |
| E    | After Hours/Emergency         | City of Santa Barbara Parks and Recreation        | (805) 963-4286 |
| E    | Main Number/                  | City of Santa Barbara Parks and Recreation        | (805) 564-5418 |
| T    | Mary Larson/Steelhead         | California Department of Fish & Wildlife          | (562) 537-8624 |
| T    | Rick Bush/Fisheries Biologist | NOAA National Marine Fisheries Service            | (562) 980-3562 |
| T    | /                             | US Fish and Wildlife Service, Federal T&E Species | (805) 644-1766 |

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

March-August for grunion spawning on the beach. Western snowy plovers winter on the beach from Oct-Feb.

**Concerns and Advice to Responders:**

The lagoon is habitat for Threatened/Endangered fishes and other sensitive species which can be killed or injured by oil, response and clean-up activities. Responders should minimize disturbances in the stream, lagoon, and associated vegetation and avoid trampling oil into the sediments. Protective conditions should be followed from the IC and resource biologists.

**Hazard and Restrictions:**

Unhealthy levels of coliform bacteria have been found intermittently in streams and on beaches in this area. Use appropriate PPE, safety procedures, and include reference to potential health problems in any site safety plan.

Access and exits to and from beaches are related to tides and beach sand levels- YOU MAY GET STRANDED ON THE BEACH - Plan accordingly.

**Site Strategies:**

**Strategy: 4-672.1 Objective:** Exclude Oil

*Strategy:* Deploy exclusion booms across the inlet to minimize the likelihood of oiling the estuary. Place the booms in a configuration that forms an adjustable oil collection pocket that can accommodate changes in flow direction. Back exclusion booms with sorbent booms to minimize leakage. Line the shorelines and any side channels within the inlet to prevent collateral oiling. If there is recoverable oil on-water, deploy sorbents and contact the IC immediately regarding the use of skimmers. Monitor, adjust, and replace booms as needed to maintain effectiveness.

Table of Response Resources

| Equipment | Sub-Type     | Size | Unit | QTY | Unit | Last Page Update |
|-----------|--------------|------|------|-----|------|------------------|
| Boom      | Swamp Boom   |      |      | 400 | feet |                  |
| Boom      | Sorbent Boom |      |      | 400 | feet |                  |
| Anchor    |              |      |      | 8   |      |                  |
| Staff     |              |      |      | 8   |      |                  |

**Strategy: 4-672.2 Objective:** Shoreline Pre-Clean: Resource Specialist Supervision Required

*Strategy:* Shoreline Precleaning - Consult with resource trustees regarding wildlife issues before undertaking this activity. Hand crews to move and store kelp, driftwood, vegetative debris, trash, and other materials above high-tide line. Dispose of trash. Replace unoiled debris in its former location once the threat of oiling is past. If heavy equipment is required for this operation, request trustee consultation and IC for authorization.

Table of Response Resources

| Equipment | Sub-Type   | Size | Unit | QTY | Unit | Last Page Update |
|-----------|------------|------|------|-----|------|------------------|
| Vehicle   | ATV        |      |      | 1   |      |                  |
| Misc.     | Trash Bags |      |      |     |      |                  |
| Staff     |            |      |      | 8   |      |                  |

**Logistics:**

*Directions:* From southbound U.S. 101 take Castillo St. exit South, turn left on Cabrillo Blvd., East Beach area begins east of Stearns Wharf. Parking lots all along the beach. Area may also be accessed from northbound U.S. 101 take Cabrillo exit toward ocean, Andree Clark Lagoon is just seaward of freeway.

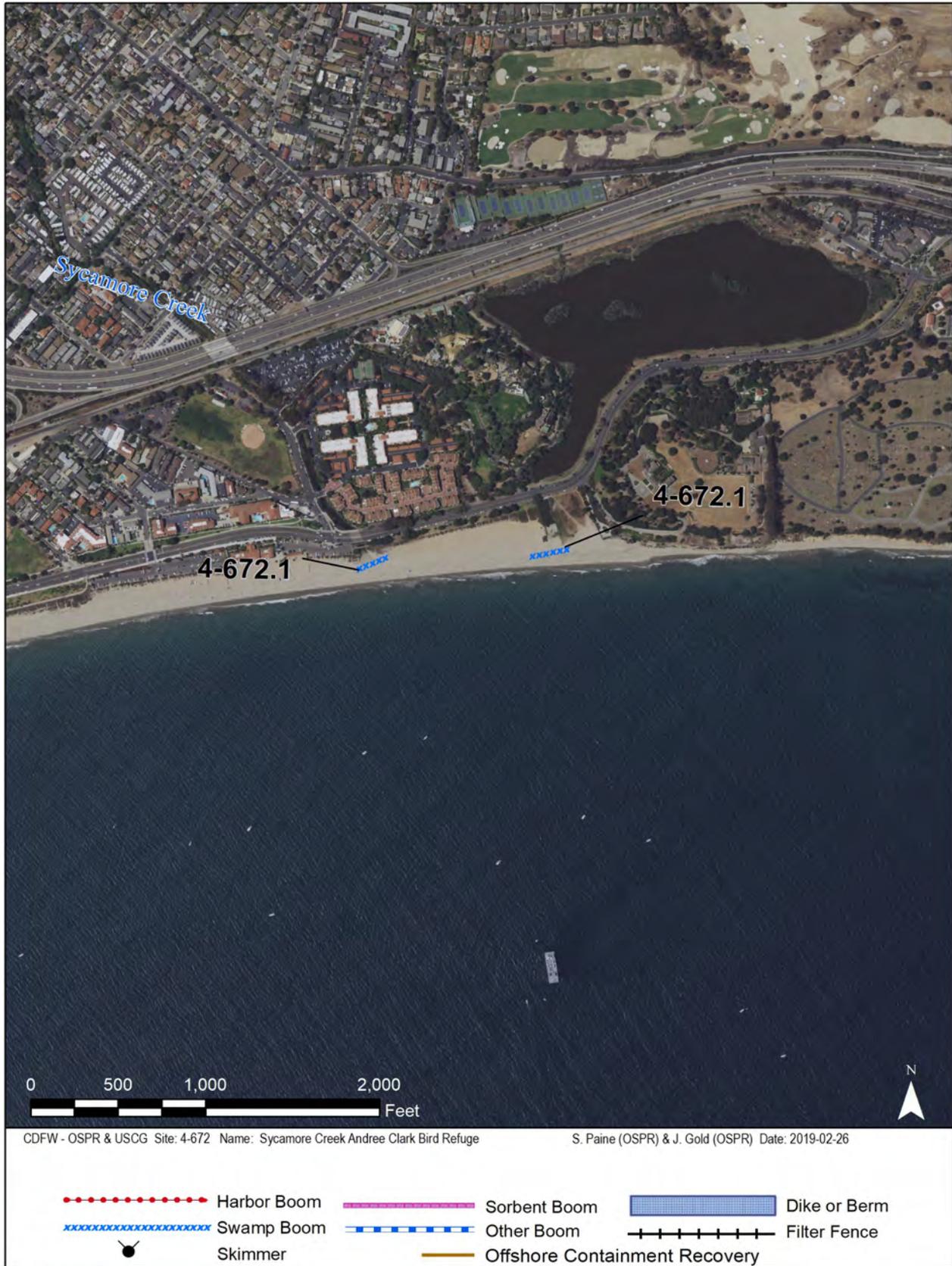
*Land Access:* Contact the City of Santa Barbara to access beaches. Parking lots between Cabrillo Blvd and the beach have parking kiosks, when entering and exiting, inform the attendant you are responding to a spill on the local beach. Most beach parking lots have an access ramp to beach suitable for all vehicles and heavy equipment.

*On-Water Limitations:* Santa Barbara Harbor is the nearest full service civilian harbor for full service berthing, launching and fueling.

*Facilities, Staging Areas, Command Posts, Available Equipment:* Access and staging areas at various parking lots. Public restrooms, boat and diving supplies, restaurants, and hotels onsite or nearby. The City of Santa Barbara Parks Maintenance division has heavy equipment. Field Command Post at Santa Barbara Harbor or USCG office. Santa Barbara airport is nearby.

*Communications Problems:* none

*Additional Operational Comments:* Due to the probable occurrence of western snowy plovers and/or California least terns at this site, please review the Sandy Beach Site Summary and Strategies (Site 4-000-A) for information on response operations when dealing with these sensitive species.



Imagery: NAIP 2016

**4-674-C Site Summary - Fernald Point****4-674-C****County :** Santa Barbara **ACP Division/Segment :** SB - R - S04 SB - R - S05**NOAA Chart :** 18725(a) **Map Book :** 997 A-B x 4 **Decimal Degrees :** 34.1889 -119.61917**Site Description:**

Fernald Point is 4 miles east of the Santa Barbara harbor. Montecito, Oak, San Ysidro and Romero Creeks all empty out onto the beach within 0.8 miles of each other, and all just west of Fernald point. All four creeks are channelized with concrete walls. The mouth of Montecito Creek is about 50 feet across. The mouth of Oak Creek is about 15 feet across. The mouths of San Ysidro and Romero Creeks are about 25 feet across. The beach in the area is fine to medium-grained sand backed by low (5 to 10 ft) cobble-boulder rip-rap or sea walls that protect houses and the Rosewood Miramar Beach hotel. Southern steelhead might be found in these four creeks in low numbers.

**Resources at Risk:***ESI and Habitat:* 9B Vegetated low banks

6B Riprap

3A Fine- to medium-grained sand beaches

**List of Resources at Risk:**

|       | Resource Name                   | Status | Presence             |
|-------|---------------------------------|--------|----------------------|
| Birds | shorebirds                      |        | Year-round           |
| Birds | seabirds                        |        | Year-round           |
| Fish  | steelhead - Southern California | FE     | Variable-Low Numbers |

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

| Type | Name/Title                    | Organization                                   | Phone          |
|------|-------------------------------|--|----------------|
| C    | /                             | Central Coast Archeological Information Center | (805) 893-2474 |
| C    | /                             | Native American Heritage Commission            | (916) 373-3710 |
| E    | /Santa Barbara County         | Santa Barbara County Park Department           | (805) 568-2461 |
| O    | 24 Hr/Dispatch                | Santa Barbara County Sheriff                   | (805) 683-2724 |
| T    | Mary Larson/Steelhead         | California Department of Fish & Wildlife       | (562) 537-8624 |
| T    | Rick Bush/Fisheries Biologist | NOAA National Marine Fisheries Service         | (562) 980-3562 |
| T    | /                             | US Fish & Wildlife Service                     | (805) 644-1766 |

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

**Concerns and Advice to Responders:**

The lagoon and stream provide habitat for sensitive species which can be killed or injured by oil, response and clean-up activities. Responders should minimize disturbances in the stream, lagoon, and associated vegetation and avoid trampling oil into the sediments. Protective conditions should be followed from the IC and resource biologists.

**Hazard and Restrictions:**

Unhealthy levels of coliform bacteria have been found intermittently in streams and on beaches in this area. Use appropriate PPE, safety procedures, and include reference to potential health problems in any site safety plan.

Access and exits to and from beaches are related to tides and beach sand levels- YOU MAY GET STRANDED ON THE BEACH - Plan accordingly.

**Site Strategies:****Strategy: 4-674.1 Objective:** Build Sandbag Dam

*Strategy:* Build a sandbag exclusion/containment dam using onsite materials or imported materials as directed by CDFW biologist. Use clean low silt content sand. If using onsite materials obtain only from un-vegetated areas and have a cultural specialist onsite to monitor. Install underflow pipes and/or a spillway to regulate water flows as conditions dictate. Closely regulate water levels to reduce collateral oiling. If there is recoverable oil on-water, deploy sorbents and contact the IC immediately regarding the use of skimmers.

Table of Response Resources

| Equipment | Sub-Type     | Size | Unit | QTY | Unit | Last Page Update |
|-----------|--------------|------|------|-----|------|------------------|
| Boom      | Sorbent Boom |      |      | 360 | feet |                  |
| stakes    |              |      |      | 36  |      |                  |
| Staff     |              |      |      | 8   |      |                  |
| Sandbags  |              |      |      | 360 |      |                  |

**Strategy: 4-674.2 Objective:** Erect Filter Fence

*Strategy:* Construct a filter fence across the front of the channel where the inlet is narrowest, water flows are low or dry, the ground can receive and hold metal stakes, and the spill is heavy oil. Monitor barrier and replace pom-poms as necessary to maintain effectiveness.

Table of Response Resources

| Equipment | Sub-Type             | Size         | Unit   | QTY | Unit  | Last Page Update |
|-----------|----------------------|--------------|--------|-----|-------|------------------|
| Fence     | Construction Fencing | 4 x 100 feet |        | 3   | Rolls |                  |
| Misc.     | Oil Snare (pom-pom)  |              |        | 900 |       |                  |
| stakes    | T-posts              |              | 6 feet | 30  |       |                  |
| Misc.     | Stake Driver         |              |        | 1   |       |                  |
| Staff     |                      |              |        | 8   |       |                  |

**Strategy: 4-674.3 Objective:** Shoreline Pre-Clean: Resource Specialist Supervision Required

*Strategy:* Consult with resource trustees regarding wildlife issues before undertaking this activity. Hand crews to move and store kelp, driftwood, vegetative debris, trash, and other materials above high-tide line. Dispose of trash. Replace unoiled debris in its former location once the threat of oiling is past.

Table of Response Resources

| Equipment  | Sub-Type | Size | Unit | QTY | Unit | Last Page Update |
|------------|----------|------|------|-----|------|------------------|
| Staff      |          |      |      | 5   |      |                  |
| Trash bags |          |      |      |     |      |                  |

**Logistics:**

*Directions:* Private residences make direct access difficult. From Hwy 101 (southeast of Santa Barbara) take the San Ysidro road exit, turn south (toward the ocean) then left on Jameson Lane, go approx. 0.3 mile to Posilipo lane and turn

**4-674-C Site Strategy - Fernald Point**

**4-674-C**

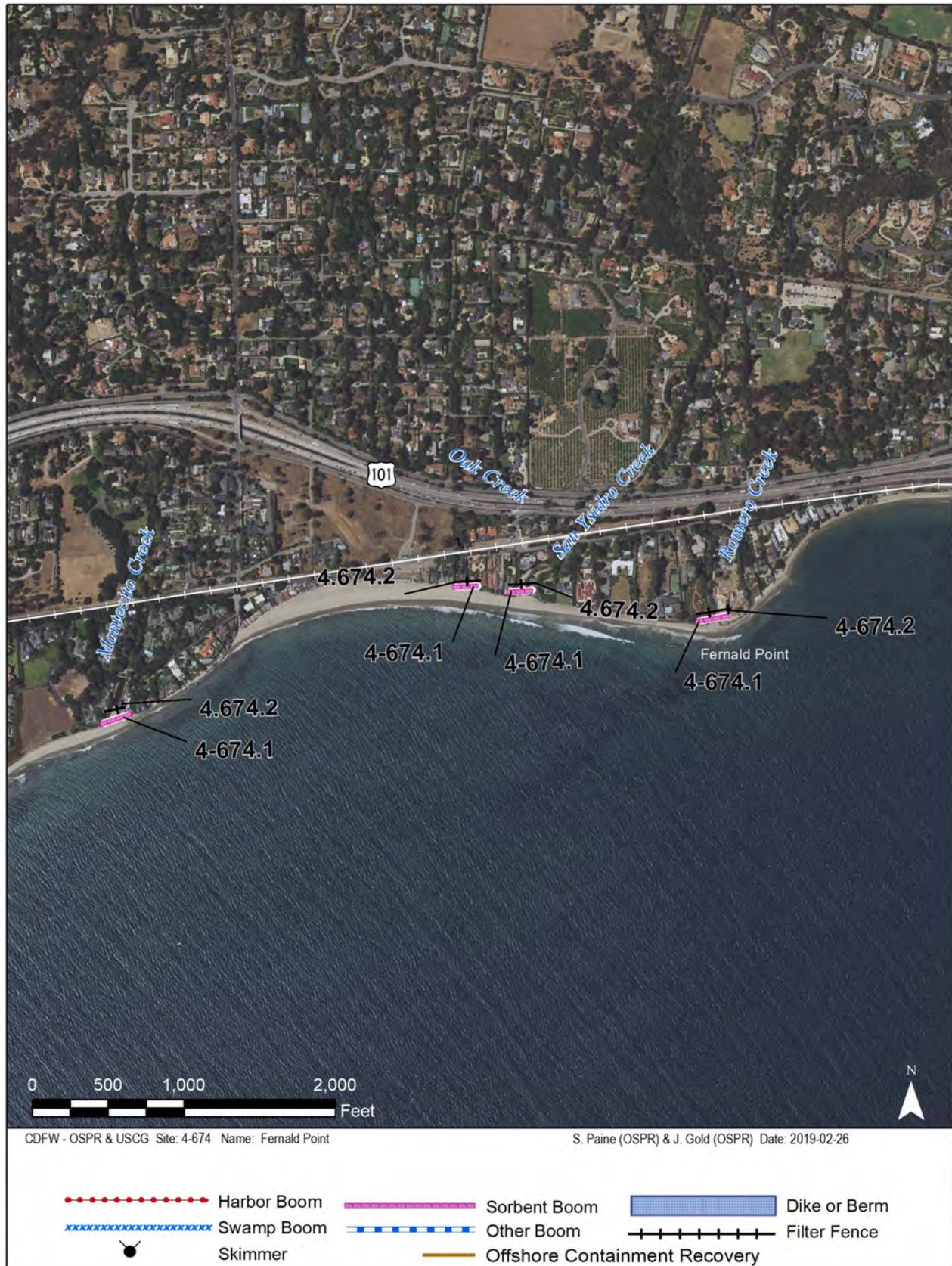
right. This lane is between Oak and San Ysidro creeks. Alternate route is to stay on San Ysidro road as it turns into Eucalyptus Lane, and ends at a parking lot and public beach access approx. 0.7 mile west of Fernald Point.

*Land Access:* Shoreline access points are limited in this area and barriers to longshore movement of personnel and equipment are highly variable and subject to tide, sea conditions and sand levels. Most stretches of the beach are accessible only through private property. Notify landowners for the need to enter.

*On-Water Limitations:* Santa Barbara Harbor is the nearest full service civilian harbor for full service berthing, launching and fueling.

*Facilities, Staging Areas, Command Posts, Available Equipment:* Nearest staging area is at Lookout Park in Summerland.

*Communications Problems:* none



Imagery: NAIP 2016

**4-677-C Site Summary - Loon Point & Elyse Creek****4-677-C****County :** Santa Barbara **ACP Division/Segment :** SB - S - S02**NOAA Chart :** 18725(a)**Map Book :** 997 F-G x 5**Decimal Degrees :** 34.41278 -119.57528**Site Description:**

Loon Point lies about 6 miles east of the Santa Barbara harbor. The point itself is a mixed sand and gravel beach (fine to medium-grained sand with 50% cobble-boulder cover). The beaches to the east and west are fine to medium-grained sand backed by cobble-boulder sand berms and by steep bluffs approx. 50 feet high. Elyse Creek is a small lagoon at the upper beach about 75 ft from the mean tide line. The upper end the lagoon is fenced off by a chain-linked fence.

**Resources at Risk:***ESI and Habitat:* 10A Salt - and brackish-water marshes

9B Vegetated low banks

6B Riprap

5 Mixed sand and gravel beaches

3A Fine- to medium-grained sand beaches

**List of Resources at Risk:**

|            | <b>Resource Name</b>       | <b>Status</b> | <b>Presence</b> |
|------------|----------------------------|---------------|-----------------|
| Amphibians | California red-legged frog | FT            | Variable        |
| Birds      | shorebirds                 |               | Year-round      |
| Fish       | tidewater goby             | FE            | Variable        |

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

| <b>Type</b> | <b>Name/Title</b>     | <b>Organization</b>                               | <b>Phone</b>   |
|-------------|-----------------------|---|----------------|
| C           | /                     | Central Coast Archeological Information Center    | (805) 893-2474 |
| C           | /                     | Native American Heritage Commission               | (916) 373-3710 |
| E           | /Santa Barbara County | Santa Barbara County Park Department              | (805) 568-2461 |
| O           | 24 Hr/Dispatch        | Santa Barbara County Sheriff                      | (805) 683-2724 |
| T           | /                     | US Fish and Wildlife Service, Federal T&E Species | (805) 644-1766 |

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

**Concerns and Advice to Responders:**

The lagoon and stream provide habitat for both sensitive and T/E species (fishes, amphibians) which can be killed or injured by oil, response and clean-up activities. Responders should minimize disturbances in the stream, lagoon, and associated vegetation and avoid trampling oil into the sediments. Protective conditions should be followed from the IC and resource biologists.

**Hazard and Restrictions:**

Unhealthy levels of coliform bacteria have been found intermittently in streams and on beaches in this area. Use appropriate PPE, safety procedures, and include reference to potential health problems in any site safety plan.

Access and exits to and from beaches are related to tides and beach sand levels- YOU MAY GET STRANDED ON THE BEACH - Plan accordingly.

**Site Strategies:****Strategy: 4-677.1 Objective:** Build Sandbag Dam

*Strategy:* Build a sandbag exclusion/containment dam using onsite materials or imported materials as directed by CDFW biologist. Use clean low silt content sand. If using onsite materials obtain only from un-vegetated areas and have a cultural specialist onsite to monitor. Install underflow pipes and/or a spillway to regulate water flows as conditions dictate. Closely regulate water levels to reduce collateral oiling. If there is recoverable oil on-water, deploy sorbents and contact the IC immediately regarding the use of skimmers.

Table of Response Resources

| Equipment | Sub-Type     | Size | Unit | QTY | Unit | Last Page Update |
|-----------|--------------|------|------|-----|------|------------------|
| Boom      | Sorbent Boom |      |      | 40  | feet |                  |
| Stakes    |              |      |      | 5   |      |                  |
| Staff     |              |      |      | 5   |      |                  |
| Sanbags   |              |      |      | 50  |      |                  |

**Strategy: 4-677.2 Objective:** Erect Filter Fence

*Strategy:* Construct a filter fence across the front of the channel where the inlet is narrowest, water flows are low or dry, the ground can receive and hold metal stakes, and the spill is heavy oil. Monitor barrier and replace pom-poms as necessary to maintain effectiveness.

Table of Response Resources

| Equipment | Sub-Type             | Size         | Unit   | QTY | Unit  | Last Page Update |
|-----------|----------------------|--------------|--------|-----|-------|------------------|
| Fence     | Construction Fencing | 4 x 100 feet |        | 1   | Rolls |                  |
| Misc.     | Oil Snare (pom-pom)  |              |        | 300 |       |                  |
| stakes    | T-posts              |              | 6 feet | 10  |       |                  |
| Misc.     | Stake Driver         |              |        | 1   |       |                  |
| Staff     |                      |              |        | 5   |       |                  |

**Strategy: 4-677.3 Objective:** Shoreline Pre-Clean: Resource Specialist Supervision Required

*Strategy:* Consult with resource trustees regarding wildlife issues before undertaking this activity. Hand crews to move and store kelp, driftwood, vegetative debris, trash, and other materials above high-tide line. Dispose of trash. Replace unoiled debris in its former location once the threat of oiling is past.

Table of Response Resources

| Equipment | Sub-Type   | Size | Unit | QTY | Unit | Last Page Update |
|-----------|------------|------|------|-----|------|------------------|
| Staff     |            |      |      | 5   |      |                  |
| Misc.     | Trash Bags |      |      |     |      |                  |

**Logistics:**

*Directions:* From Hwy 101, take the Padaro Lane exit towards the ocean; dirt trail goes to the beach about 0.3 mile west of Loon Point. This is a relatively remote stretch of beach with limited vehicular access.

**4-677-C Site Strategy - Loon Point & Elyse Creek**

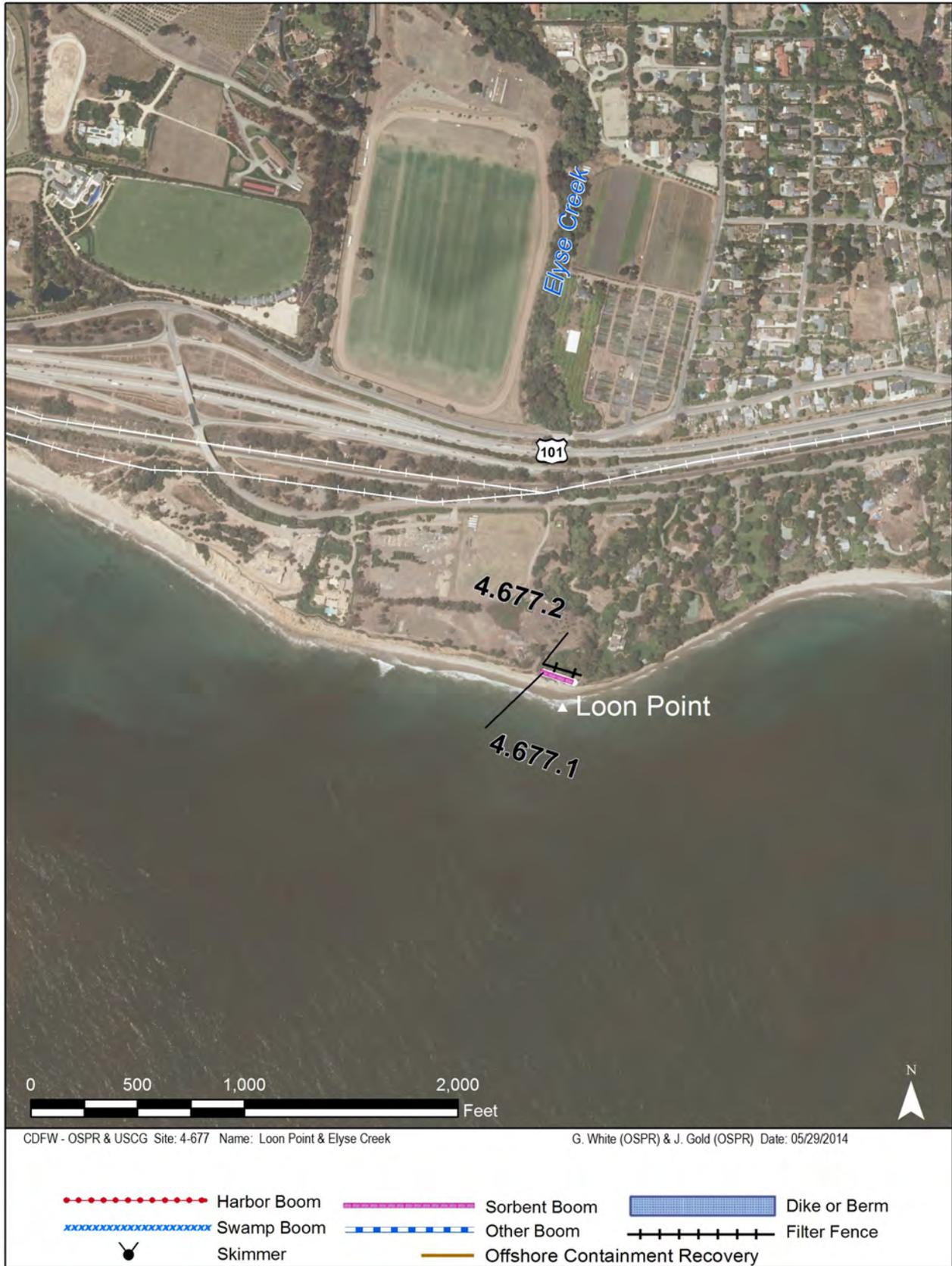
**4-677-C**

*Land Access:* Beach access road from Loon Point will likely require regrading for vehicle access; contact the SB County Parks for information. High tide will restrict longshore movement. Beach and access roads are suitable for foot traffic and ATVs.

*On-Water Limitations:* Santa Barbara Harbor is the nearest full service civilian harbor for full service berthing, launching and fueling.

*Facilities, Staging Areas, Command Posts, Available Equipment:* Minimal staging at Loon Point/Padaro Lane Parking lot.

*Communications Problems:* none



Imagery: NAIP 2010 (Summer) 4-Band

**4-680-A Site Summary - Arroyo Paredon Creek and Sandyland****4-680-A****County :** Santa Barbara **ACP Division/Segment :** SB - S - S02 SB - S - S030**NOAA Chart :** 18725(a) **Map Book :** 997 H-J x 5 **Decimal Degrees :** 34.40472 -119.54556**Site Description:**

Area from Serena SE to Sand point. The Sandyland area is a wide, fine-grained sand beach backed by rip-rap structures. The Arroyo Paredon creek empties out into the beach at the NW end of this site. Beach sand tiger beetles may inhabit the higher clean sandy beach in the Carpinteria area (species of special concern). Western snowy plovers winter along the beach during the winter, spring and fall.

**Resources at Risk:***ESI and Habitat:* 10A Salt - and brackish-water marshes

9B Vegetated low banks

6B Riprap

3A Fine- to medium-grained sand beaches

**List of Resources at Risk:**

|               | <b>Resource Name</b>       | <b>Status</b> | <b>Presence</b> |
|---------------|----------------------------|---------------|-----------------|
| Amphibians    | California red-legged frog | FT            | Year-round      |
| Birds         | shorebirds                 |               | Year-round      |
| Birds         | waterfowl                  |               | Year-round      |
| Birds         | Western snowy plover       | FT            | Oct-Feb         |
| Fish          | tidewater goby             | FE            | Year-round      |
| Invertebrates | Pismo clams                |               | Year-round      |

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

| <b>Type</b> | <b>Name/Title</b>          | <b>Organization</b>                               | <b>Phone</b>   |
|-------------|----------------------------|---|----------------|
| C           | /                          | Central Coast Archeological Information Center    | (805) 893-2474 |
| C           | /                          | Native American Heritage Commission               | (916) 373-3710 |
| E           | Clem Homer/Private Citizen | Access to Sand Point Rd. (west marsh access)      | (805) 684-2649 |
| T           | /                          | US Fish and Wildlife Service, Federal T&E Species | (805) 644-1766 |

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

**Concerns and Advice to Responders:**

The lagoon and stream provide habitat for both sensitive and T/E species (fishes, amphibians) which can be killed or injured by oil, response and clean-up activities. Responders should minimize disturbances in the stream, lagoon, and associated vegetation and avoid trampling oil into the sediments. Protective conditions should be followed from the IC and resource biologists.

**Hazard and Restrictions:**

Unhealthy levels of coliform bacteria have been found intermittently in streams and on beaches in this area. Use appropriate PPE, safety procedures, and include reference to potential health problems in any site safety plan.

Access and exits to and from beaches are related to tides and beach sand levels- YOU MAY GET STRANDED ON THE BEACH - Plan accordingly.

**Site Strategies:****Strategy: 4-680.1 Objective:** Exclude Oil

*Strategy:* Deploy exclusion booms across the leading edge of the inlet. Place the booms in a configuration that forms an adjustable oil collection pocket that can accommodate changes in flow direction. Back exclusion booms with sorbent booms to minimize leakage. Line the shorelines and any side channels within the inlet to prevent collateral oiling. If there is recoverable oil on-water, deploy sorbents and contact the IC immediately regarding the use of skimmers. Monitor, adjust, and replace booms as needed to maintain effectiveness.

Table of Response Resources

| Equipment | Sub-Type     | Size | Unit | QTY | Unit | Last Page Update |
|-----------|--------------|------|------|-----|------|------------------|
| Boom      | Swamp Boom   |      |      | 200 | feet |                  |
| Boom      | Sorbent Boom |      |      | 200 | feet |                  |
| Anchor    | Danforth     |      |      | 8   |      |                  |
| Staff     |              |      |      | 5   |      |                  |

**Strategy: 4-680.2 Objective:** Erect Filter Fence

*Strategy:* Construct a filter fence across the front of the channel where the inlet is narrowest, water flows are low or dry, the ground can receive and hold metal stakes, and the spill is heavy oil. Monitor barrier and replace pom-poms as necessary to maintain effectiveness.

Table of Response Resources

| Equipment | Sub-Type             | Size         | Unit   | QTY | Unit  | Last Page Update |
|-----------|----------------------|--------------|--------|-----|-------|------------------|
| Fence     | Construction Fencing | 4 x 100 feet |        | 2   | Rolls |                  |
| Misc.     | Oil Snare (pom-pom)  |              |        | 600 |       |                  |
| Stakes    | T-posts              |              | 6 feet | 20  |       |                  |
| Misc.     | Stake Driver         |              |        | 1   |       |                  |
| Staff     |                      |              |        | 5   |       |                  |

**Strategy: 4-680.3 Objective:** Shoreline Pre-Clean: Resource Specialist Supervision Required

*Strategy:* Consult with resource trustees regarding wildlife issues before undertaking this activity. Hand crews to move and store kelp, driftwood, vegetative debris, trash, and other materials above high-tide line. Dispose of trash. Replace unoiled debris in its former location once the threat of oiling is past.

Table of Response Resources

| Equipment | Sub-Type   | Size | Unit | QTY | Unit | Last Page Update |
|-----------|------------|------|------|-----|------|------------------|
| Staff     |            |      |      | 5   |      |                  |
| Misc.     | Trash Bags |      |      |     |      |                  |

**Logistics:**

*Directions:* Going northbound US 101, exit Padaro Ln/#88 for 0.3 mi, turn left on Padero Ln for >0.1 mi, turn left on Santa Claus Ln for 0.1 mi, park along the road, walk to beach, head west towards the creek. Going southbound US 101,

**4-680-A Site Strategy - Arroyo Paredon Creek and Sandyland**

**4-680-A**

exit Santa Claus Ln/#88 for 0.3 mi, park along the road, walk to beach, head west towards the creek.

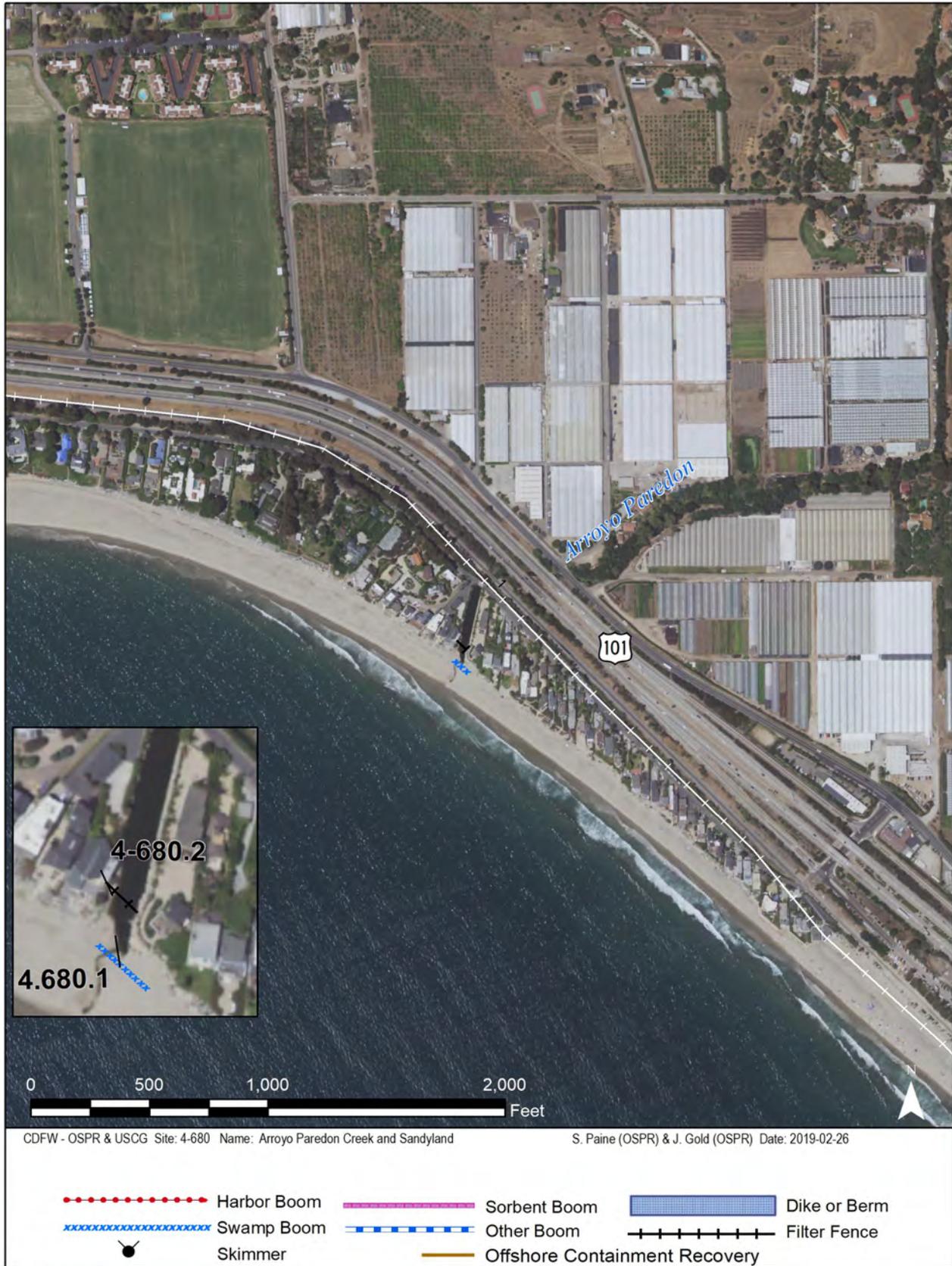
*Land Access:* Shoreline access points are limited in this area and longshore movement of personnel and equipment depend on the tide height, sea conditions, and sand levels. Most stretches of beach are accessible only through private property. Notify landowners for the need to enter.

*On-Water Limitations:* Santa Barbara Harbor is the nearest full service civilian harbor for full service berthing, launching and fueling.

*Facilities, Staging Areas, Command Posts, Available Equipment:* Nearest staging at parking lot on Santa Claus Ln.

*Communications Problems:* none

*Additional Operational Comments:* Due to the probable occurrence of western snowy plovers and/or California least terns at this site, please review the Sandy Beach Site Summary and Strategies (Site 4-000-A) for information on response operations when dealing with these sensitive species.



Imagery: NAIP 2016

**4-685-A Site Summary - Carpinteria Marsh****4-685-A****County:** Santa Barbara **ACP Division/Segment:** SB - S - S03**NOAA Chart:** 18725(a)**Map Book:** 998 A-C x 6-7**Decimal Degrees:** 34.396982 -119.537343**Site Description:**

Area bounded by Sandyland Protection Association to the NW and Sandyland Cove to the SE. Carpinteria salt marsh covers 230 acres. This large wetland supports a wide variety of species. Santa Monica and Franklin Creeks feed into the marsh. Pickleweed dominates the regularly flooded emergent wetland and saltgrass dominates at slightly higher elevations. The University of California owns 120 acres. The remainder of the marsh is owned by The Land Trust of Santa Barbara County, the City of Carpinteria and homeowners living along the shore. The mouth is open to the ocean year around. The small inlet is stabilized with rip rap, and is occasionally dredged to increase flushing. There is an erosional area with limited sand. Private residences occur along both sides of the mouth. Beaches east and west of the mouth are moderately sized and of fine to medium-grained sand and there is a subtidal reef offshore of the mouth at Sand Point. There are various plant species, including salt marsh bird's beak and Ventura marsh milkvetch. There are also numerous fish and invertebrate species. Many bird species are present including waterfowl, seabirds, shorebirds, raptors, Belding's savannah sparrows, wintering western snowy plovers and foraging California least terns. Many terrestrial mammals are present including raccoon, weasels, rodents, skunks, foxes and opossums. Pismo clams may be present. Beach sand tiger beetles may inhabit higher sandy beaches in the Carpinteria area (species of special concern).

**Resources at Risk:***ESI and Habitat:* 10A Salt - and brackish-water marshes

9A Sheltered tidal flats

6B Riprap

3A Fine- to medium-grained sand beaches

**List of Resources at Risk:**

|               | <b>Resource Name</b>           | <b>Status</b> | <b>Presence</b> | <b>Sensitivity</b> |
|---------------|--------------------------------|---------------|-----------------|--------------------|
| Birds         | Belding's savannah sparrow     | SE            | Year-round      |                    |
| Birds         | Western snowy plover           | FT, SSC       | Oct-Feb         |                    |
| Birds         | California least tern          | FE, SE        | Apr-Sept        |                    |
| Fish          | juvenile fish                  |               | Year-round      |                    |
| Invertebrates | rocky intertidal invertebrates |               | Year-round      |                    |
| Plants        | salt marsh bird's beak         | FE, SE        | Year-round      |                    |
| Plants        | Ventura marsh milk-vetch       | FE, SE        | Year-round      |                    |

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

| <b>Type</b> | <b>Name/Title</b>              | <b>Organization</b>                               | <b>Phone</b>   |
|-------------|--------------------------------|---|----------------|
| C           | /                              | Central Coast Archeological Information Center    | (805) 893-2474 |
| C           | /                              | Native American Heritage Commission               | (916) 373-3710 |
| E           | Jesse Groves/Private Citizen   | Access to Del Mar Ave. (east marsh access)        | (805) 698-2386 |
| E           | Clem Homar/Private Citizen     | Access to Sand Point Rd. (west marsh access)      | (805) 684-2649 |
| E           | /Dispatch                      | Carpinteria-Summerland Fire Protection District   | (805) 969-7762 |
| E           | Dispatch 24 Hr/Campus Police   | University of California Santa Barbara            | (805) 893-3447 |
| E           | Andrew Brooks/Reserve Director | University of California Santa Barbara            | (805) 570-3453 |
| T           | /                              | US Fish and Wildlife Service, Federal T&E Species | (805) 644-1766 |

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

**Concerns and Advice to Responders:**

A listed bird nests in the wetland and two listed plants exist in the marsh. If oil enters the saltmarsh, animals and habitat can be killed or injured by oil, response and clean-up activities. Responders should minimize disturbances in the stream, lagoon, and associated vegetation and avoid trampling oil into the sediments. Protective conditions should be followed from the IC and resource biologists.

**Hazard and Restrictions:**

Unhealthy levels of coliform bacteria have been found intermittently in streams and on beaches in this area. Use appropriate PPE, safety procedures, and include reference to potential health problems in any site safety plan.

Safety Considerations - Beware of trains at unregulated Railroad Crossings. On the narrow paved access road leading to the mouth of Carpinteria Salt Marsh, beware of vehicles pedestrians and animals. During response beware of waves, slips, trips and falls, and water hazards.

**Site Strategies:**

**Strategy: 4-685.1 Objective:** Exclude Oil

*Strategy:* Deploy exclusion booms across the inlet to minimize the likelihood of oiling the estuary. Place the booms in a configuration that forms an adjustable oil collection pocket that can accommodate changes in flow direction. Back exclusion booms with sorbent booms to minimize leakage. Line the shorelines and any side channels within the inlet to prevent collateral oiling. If there is recoverable oil on-water, deploy sorbents and contact the IC immediately regarding the use of skimmers. Monitor, adjust, and replace booms as needed to maintain effectiveness.

Table of Response Resources

| Equipment | Sub-Type      | Size | Unit | QTY | Unit | Last Page Update  |
|-----------|---------------|------|------|-----|------|---|
| Boom      | Swamp Boom    |      |      | 450 | feet | <i>Strategy Updated:</i><br><i>Last Test: 9/24/2019</i> |
| Boom      | Sorbent Boom  |      |      | 450 | feet |   |
| Anchor    | Danforth      |      |      | 6   |      |   |
| Vessel    | Skiff or Punt |      |      | 1   |      |   |
| Staff     |               |      |      | 8   |      |   |

**Strategy: 4-685.2 Objective:** Shoreline Pre-Clean: Resource Specialist Supervision Required

*Strategy:* Consult with resource trustees regarding wildlife issues before undertaking this activity. Hand crews to move and store kelp, driftwood, vegetative debris, trash, and other materials above high-tide line. Dispose of trash. Replace unoiled debris in its former location once the threat of oiling is past.

Table of Response Resources

| Equipment | Sub-Type   | Size | Unit | QTY | Unit | Last Page Update |
|-----------|------------|------|------|-----|------|------------------|
| Vehicle   | ATV        |      |      | 1   |      |                  |
| Misc.     | Trash Bags |      |      |     |      |                  |
| Staff     |            |      |      | 8   |      |                  |

**Logistics:**

*Directions:* East Carpinteria Saltmarsh- Access the mouth of the marsh: Going northbound US 101, exit Santa Monica Rd/ #87 for 0.2 mi, turn right on Via Real for 0.2 mi, turn right on Santa Ynez Ave for 0.1 mi, turn right on Carpinteria Ave for 0.1 mi, turn left on Sandyland Cove Rd for 0.4 mi, turn right on Del Mar Ave and follow it until it ends. Going southbound US 101, exit Carpinteria Ave/#87B for 0.6 mi, turn right Sandyland Cove Rd for 0.4 mi, turn right on Del Mar Ave and follow it until it ends. Contact Jesse Groves 805-698-2386 at the gate. West Carpinteria Saltmarsh- Access the mouth of the marsh: Going northbound US 101, exit Padaro Ln/#88 for 0.3 mi, turn left on Padero Ln for >0.1 mi, turn left on Santa Claus Ln for 0.6 mi, turn right on Sandpoint Rd just before the freeway on-ramp. Going southbound US 101, exit Santa Claus Ln/#88 for 0.8 mi, turn right on Sandpoint Rd just before the freeway on-ramp. Contact Clem and Mary Homar 805-684-2649 at the gate.

*Land Access:* Access for all vehicles and equipment at staging areas at end of Del Mar Ave and Sandpoint Rd. Must contact residents to open gates.

*On-Water Limitations:* Access in marsh by skiff only.

**4-685-A Site Strategy - Carpinteria Marsh**

**4-685-A**

*Facilities, Staging Areas, Command Posts, Available Equipment:* Equipment: MSRC yard in Carpinteria. Staging area: At end of either Del Mar Ave or Sandpoint Rd. No facilities or utilities. Command post MSRC yard. Closest airport is in Santa Barbara.

*Communications Problems:* none

*Additional Operational Comments:* Due to the probable occurrence of western snowy plovers and/or California least terns at this site, please review the Sandy Beach Site Summary and Strategies (Site 4-000-A) for information on response operations when dealing with these sensitive species.



Imagery: NAIP 2016

**4-690-A Site Summary - Carpinteria Creek & State Beach****4-690-A****County :** Santa Barbara **ACP Division/Segment :** SB - T - S01 SB - T - S020**NOAA Chart :** 18725(a) **Map Book :** 998 C-D x 7 **Decimal Degrees :** 34.385 -119.505**Site Description:**

This site begins around Ash Ave. at the up-coast end and extends to the Carpinteria pier at the down-coast end. The beach at Ash Ave. is managed by the City of Carpinteria and the beach at Palm Ave. is managed by California State Parks. This predominantly fine-grained sand beach covers approx. 1.5 miles. The beach is backed by dunes along the up coast-end and bluffs along the down-coast end. Carpinteria Creek empties out just SE of state park entrance. The mouth is generally open during winter and early spring and closed by a sand bar during summer and fall. Rocky intertidal habitats are common and there is a shallow rocky reef just off shore and south of the creek. January through June for Harbor seals pupping and breeding west of Casitas pier.

**Resources at Risk:***ESI and Habitat:* 10A Salt - and brackish-water marshes

9B Vegetated low banks

3A Fine- to medium-grained sand beaches

2A Exposed wave-cut platforms in bedrock, mud, or clay

1A Exposed Rocky Shore

**List of Resources at Risk:**

|               | <b>Resource Name</b>            | <b>Status</b> | <b>Presence</b> |
|---------------|---------------------------------|---------------|-----------------|
| Amphibians    | California red-legged frog      | FT            | Year-round      |
| Fish          | steelhead - Southern California | FE            | Year-round      |
| Fish          | tidewater goby                  | FE            | Year-round      |
| Invertebrates | Pismo clams                     |               | Year-round      |
| Invertebrates | rocky intertidal resources      |               | Year-round      |
| Mammals       | harbor seal                     | FP            | Year-round      |

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

| <b>Type</b> | <b>Name/Title</b>                        | <b>Organization</b>                               | <b>Phone</b>   |
|-------------|--|---|----------------|
| C           | /  | Central Coast Archeological Information Center    | (805) 893-2474 |
| C           | /  | Native American Heritage Commission               | (916) 373-3710 |
| E           | /  | City of Carpinteria Beach                         | (805) 684-5405 |
| T           | Mary Larson/Steelhead                    | California Department of Fish & Wildlife          | (562) 537-8624 |
| T           | SURCOM (24-hr)/                          | California State Parks (Dispatch)                 | (951) 443-2969 |
| T           | /  | California State Parks, Channel Coast District    | (805) 585-1850 |
| T           | Justin Viezbicke/Marine Mammal Stranding | NOAA National Marine Fisheries Service            | (562) 506-4315 |
| T           | Rick Bush/Fisheries Biologist            | NOAA National Marine Fisheries Service            | (562) 980-3562 |
| T           | /  | US Fish and Wildlife Service, Federal T&E Species | (805) 644-1766 |

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

Natural tar deposits and active seeps are abundant along the beach and inland areas.

**Concerns and Advice to Responders:**

The lagoon, stream and sand dunes provide habitat for both sensitive and T/E species (fishes, amphibians) which can be killed or injured by oil, response and clean-up activities. Responders should minimize disturbances in the stream, lagoon, and associated vegetation and avoid trampling oil into the sediments. Protective conditions should be followed from the IC and resource biologists.

**Hazard and Restrictions:**

Unhealthy levels of coliform bacteria have been found intermittently in streams and on beaches in this area. Use appropriate PPE, safety procedures, and include reference to potential health problems in any site safety plan. Access and exits to and from beaches are related to tides and beach sand levels- YOU MAY GET STRANDED ON THE BEACH - Plan accordingly.

**Site Strategies:**

**Strategy: 4-690.1 Objective:** Exclude Oil

*Strategy:* Deploy exclusion booms across the inlet to minimize the likelihood of oiling the estuary. Place the booms in a configuration that forms an adjustable oil collection pocket that can accommodate changes in flow direction. Back exclusion booms with sorbent booms to minimize leakage. Line the shorelines and any side channels within the inlet to prevent collateral oiling.

Table of Response Resources

| Equipment | Sub-Type   | Size | Unit | QTY | Unit | Last Page Update |
|-----------|------------|------|------|-----|------|------------------|
| Boom      | Swamp Boom |      |      | 200 | feet |                  |
| Boom      | Sorbent    |      |      | 200 | feet |                  |
| Anchor    | Danforth   |      |      | 4   |      |                  |
| Staff     |            |      |      | 5   |      |                  |

**Strategy: 4-690.2 Objective:** Shoreline Pre-Clean: Resource Specialist Supervision Required

*Strategy:* Consult with resource trustees regarding wildlife issues before undertaking this activity. Hand crews to move and store kelp, driftwood, vegetative debris, trash, and other materials above high-tide line. Dispose of trash. Replace unoiled debris in its former location once the threat of oiling is past.

Table of Response Resources

| Equipment | Sub-Type   | Size | Unit | QTY | Unit | Last Page Update |
|-----------|------------|------|------|-----|------|------------------|
| Staff     |            |      |      | 5   |      |                  |
| Misc.     | Trash Bags |      |      |     |      |                  |

**Logistics:**

*Directions:* Going northbound US 101, exit Casitas Pass Road #86A for 0.2 mi, turn left on Casitas Pass Rd for 0.2 mi, turn right on Carpinteria Ave for 0.1 mi, turn left on Palm Ave for 0.4 mi, enter into Carpinteria State Park. Going southbound US 101, exit Casitas Pass Road #86A for 0.2 mi, turn right on Casitas Pass Rd for 0.1 mi, turn right on Carpinteria Ave for 0.1 mi, turn left on Palm Ave for 0.4 mi, enter into Carpinteria State Park.

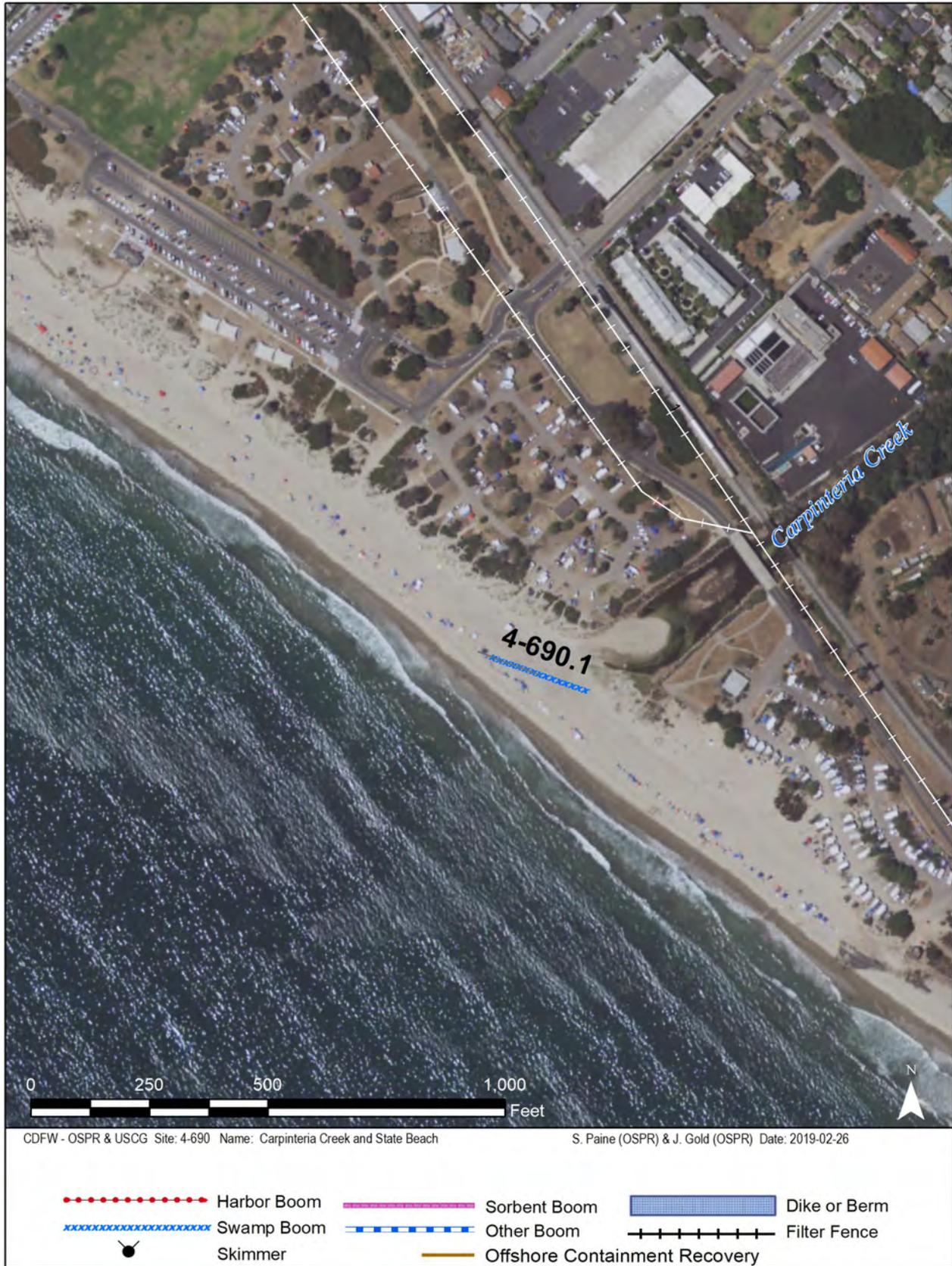
*Land Access:* Access to this site is controlled by California State Parks.

*On-Water Limitations:* Santa Barbara Harbor is the nearest civilian harbor for full service berthing, launching and fueling.

*Facilities, Staging Areas, Command Posts, Available Equipment:* Staging at CA State Parks parking lot.

*Communications Problems:* NA

*Additional Operational Comments:*



Imagery: NAIP 2016

### **9812.3 Economic Sensitive Sites**

Refer to Section 9805 for more information.

## Economic Sites - Santa Barbara County

| Econ Site    | Econ Site Name                      | Lat/Long             | Address  | City/State/Zip         | Phone          | Econ Site Desc   | Category  | Type | Op-Div | Co |
|--------------|-------------------------------------|----------------------|--|------------------------|----------------|--|---|------|--------|----|
| 4-6-SB-090-D | UCSB Seawater System Intakes        | 34.401317 -119.83985 | two intakes 0.33 miles southeast of Campus Point | Santa Barbara CA       | (805) 451-9914 | intakes are 55 ft deep, marked by surface buoys  | Water Intakes [Non-Human Health and Safety Sites] | D    | SB - P | SB |
| 4-6-SB-100-E | Goleta Beach County Park            | 34.41604 -119.83042  |  |                        | (805) 681-5526 | Beach - fishing pier and day use.  | Parks, Beaches, Recreational Areas                | E    | SB - P | SB |
| 4-6-SB-110-E | Arroyo Burro Beach County Park      | 34.40313 -119.74387  |  |                        | (805) 681-5526 | Beach - day use and restaurant.  | Parks, Beaches, Recreational Areas                | E    | SB - Q | SB |
| 4-6-SB-120-D | Santa Barbara Mariculture Co.       | 34.37768 -119.74585  | 939 North Patterson Ave.                         | Santa Barbara CA 93111 | (805) 886-1283 | Mariculture - Hope Ranch mussels growing area is offshore of Arroyo Burro Creek.                     | Aquaculture and Mariculture                       | D    | SB - Q | SB |
| 4-6-SB-130-E | Leadbetter Beach                    | 34.40071 -119.69946  |  |                        | (805) 963-4286 | Beach - day use, picnic area, restaurant, city beach.  | Parks, Beaches, Recreational Areas                | E    | SB - R | SB |
| 4-6-SB-140-E | West Beach                          | 34.41075 -119.69065  | Seaward of Cabrillo Blvd.                        | Santa Barbara CA       | (805) 963-4286 | Beach - day use, recreational city beach.  | Parks, Beaches, Recreational Areas                | E    | SB - R | SB |
| 4-6-SB-150-E | Santa Barbara Harbor & Waterfront   | 34.40395 -119.69175  | 132-A Harbor Way                                 | Santa Barbara CA 93109 | (805) 564-5530 | Harbor- Berthing: 1000, Mooring: 12, marina, launch ramp, fuel dock, boat services, and restaurants. | Vessel Traffic Areas                              | E    | SB - R | SB |
| 4-6-SB-160-E | Sterns Wharf                        | 34.40888 -119.68492  | State St. at Cabrillo Blvd.                      | Santa Barbara CA       | (805) 564-5518 | Fishing area, restaurants, shopping, and museums.  | Parks, Beaches, Recreational Areas                | E    | SB - R | SB |
| 4-6-SB-170-E | Chase Palm Park                     | 34.41566 -119.68252  | 236 E. Cabrillo Ave.                             | Santa Barbara CA 93101 | (805) 963-4286 | Recreational arts and crafts show, picnic area.  | Parks, Beaches, Recreational Areas                | E    | SB - R | SB |
| 4-6-SB-180-D | Charles E. Meyer Desalination Plant | 34.41891 -119.68702  | Intake - 1/2 mile off Stearns Wharf              | Santa Barbara CA       | (805) 564-5460 | Water intake.  | Water Intakes [Non-Human Health and Safety Sites] | D    | SB - R | SB |

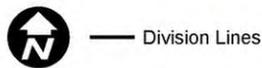
| Econ Site    | Econ Site Name               | Lat/Long            | Address  | City/State/Zip | Phone          | Econ Site Desc  | Category                                 | Type | Op-Div | Co |
|--------------|------------------------------|---------------------|--|----------------|----------------|---|--|------|--------|----|
| 4-6-SB-190-E | East Beach<br>Butterfly Lane | 34.41687 -119.66588 |  |                | (805) 564-5418 | Beach - day use,<br>beach access.   | Parks, Beaches,<br>Recreational<br>Areas | E    | SB - R | SB |
| 4-6-SB-200-E | Hammonds<br>Beach            | 34.41874 -119.63056 | End of<br>Eucalyptus Ln.                       | Montecito CA   | (805) 564-5418 | Beach - day use,<br>recreational.   | Parks, Beaches,<br>Recreational<br>Areas | E    | SB - R | SB |
| 4-6-SB-210-E | Eucalyptus<br>Lane           | 34.41874 -119.63056 | End of<br>Eucalyptus Ln.                       | Montecito CA   | (805) 564-5418 | Beach - day use,<br>beach access.   | Parks, Beaches,<br>Recreational<br>Areas | E    | SB - R | SB |
| 4-6-SB-220-E | Miramar Beach                | 34.41874 -119.63056 | End of<br>Eucalyptus Ln.                       | Montecito CA   | (805) 564-5418 | Beach - day use,<br>recreational.   | Parks, Beaches,<br>Recreational<br>Areas | E    | SB - R | SB |
| 4-6-SB-230-E | Lookout<br>County Park       | 34.42027 -119.60112 | Lookout Park<br>Rd.,<br>Summerland<br>loon Pt. | CA             | (805) 681-5526 | Beach - day use,<br>picnic area,<br>volleyball court.                     | Parks, Beaches,<br>Recreational<br>Areas | E    | SB - S | SB |
| 4-6-SB-240-E | Loon Point<br>Access         | 34.41276 -119.57514 |  |                | (805) 681-5526 | Beach - day use,<br>beach access.   | Parks, Beaches,<br>Recreational<br>Areas | E    | SB - S | SB |
| 4-6-SB-250-E | Carpinteria<br>City Beach    | 34.39458 -119.52608 | End of Linden<br>Ave. and Ash                  | Carpinteria CA | (805) 684-5405 | Beach - day use,<br>recreational.   | Parks, Beaches,<br>Recreational<br>Areas | E    | SB - T | SB |
| 4-6-SB-260-E | Carpinteria<br>State Beach   | 34.3918 -119.52128  | End of Palm Ave.                               | Carpinteria CA | (951) 443-2969 | Beach - camping,<br>day use with fee,<br>Tomol Interpretive<br>play area. | Parks, Beaches,<br>Recreational<br>Areas | E    | SB - T | SB |
| 4-6-SB-270-E | Rincon Beach<br>County Park  | 34.37802 -119.48075 | Bates Rd. and<br>Hwy 101                       | Carpinteria CA | (805) 681-5526 | Beach - day use.  | Parks, Beaches,<br>Recreational<br>Areas | E    | SB - T | SB |

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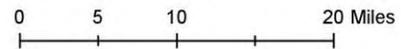
#### **9812.4 Shoreline Operational Divisions**

Refer to Section 9806 for more details.

# Santa Barbara County Operational Divisions



Source: Jennifer Gold / Mike Connell (OSPR)  
 Map produced by: Greg Ewing (OSPR) March 10, 2011



## **Santa Barbara County Operational Divisions**

### **Division A Description**

Pt. Sal Area - This Division includes 7 miles of shoreline which extends from Mussel Point to the rocky headland located at the north end of Minuteman Beach. There are three main sandy beaches in this Division. None are accessible by vehicle including Point Sal State Beach. The northern beach extends south 1.3 miles from Mussel Point and terminates in a series of exposed rock cliffs and wave-cut platforms backed by cliffs with rock pinnacles offshore, the largest being Lion Rock. Point Sal State Beach is a high energy medium-grained sand beach southeast of Lion Rock with a southern exposure. This Division is also a coastal sensitive site because it provides foraging, roosting, rafting and hauling out areas for significant numbers of birds and marine mammals several of which are T/E listed species. The only way to protect biota and habitats in this area is to implement offshore response alternatives.

### **Division B Description**

Minuteman Beach Area - This Division includes 6 miles of wide fine-grained sand beach backed by sensitive coastal dunes which provide habitat and nesting areas for California least terns and western snowy plovers. The beach has only two access points. Minuteman Parking Lot at the north and in the vicinity of San Antonio Creek at the south. It has two sensitive inlets, Schuman and San Antonio Creeks which contain tidewater gobies and steelhead (F/E fish). Because of the nesting habitat for western snowy plovers, the beach itself is treated as a sensitive site. All beach access must be cleared with the Vandenberg Air Force Base - Conservation Office.

### **Division C Description**

Point Purisima Area - This Division includes 5 miles of dunes and unbroken shorelines which provide nesting and foraging habitat for western snowy plover and California least terns. There are haul-out areas for pinnipeds. The northern shoreline is dominated by cobble/boulder beaches and bedrock reefs backed by sensitive coastal dune habitat. The Purisima Point area is accessible from Tangair Rd. however, the shoreline is accessible only through sensitive dunes. Existing access roads and trails would have to be widened and graded for response purposes. Security fencing would have to be installed in some locations to limit public access. South of Purisima Pt, coastal bluffs are higher and access to the shoreline decreases. All beach access must be cleared with the Vandenberg AFB Conservation Office.

### **Division D Description**

Wall and Ocean Beaches - This Division includes 6.2 miles of continuous fine to medium-grained sand beaches backed by vegetated sand dunes. These beaches are nesting and foraging areas for California least terns and Western snowy plovers between March 15 and September 15. This division includes the Santa Ynez River mouth, lagoon, and coastal saltmarsh which support a diverse array of sensitive habitats and animals including several T/E species and migratory birds. There are two principal access points to this stretch of beach - Wall Beach, north of the Santa Ynez River, and SB County's Ocean Park at Surf south of the River. All beach access must be cleared with the Vandenberg Air Force Base – Conservation Office.

### **Division E Description**

Point Pedernales, Point Arguello, Rocky Point east to Boathouse Cove - This Division is 6.5 miles of exposed rock cliffs, wave-cut platforms, fine to medium-grained sand beaches, and mixed sand and gravel beaches. Virtually all the shoreline within this division, but La Honda Creek, is inaccessible for responders, vehicles or heavy equipment. The rocky habitat within this area has a very rich intertidal zone with diverse algal and invertebrate communities which include but are not limited to: red and black abalone, and rock crabs. La Honda Creek is known to support tidewater gobies, a federally listed endangered fish. Sea Otters and pinnipeds occur in this area. All beach access must be cleared with the Vandenberg Air Force Base - Conservation Office.

### **Division F Description**

Jalama Area - This 8.4 mile stretch of coastline provides undisturbed areas for hauling-out and roosting for marine mammals and birds. The shoreline between the boathouse and Jalama Beach is characterized by extensive bedrock tidepools, interspersed with narrow sand beaches that are backed by steep coastal bluffs. Most of this division is not accessible except by landing craft or helicopter. The beach widens toward the south near the County Park. Access along the division remains discontinuous for motorized vehicles because of bedrock outcroppings. The southern portion of this Division is accessible from Jalama Beach County Park.

### **Division G Description**

Southeast of Jalama Creek, Point Conception/Government Point/Cojo Bay - This isolated 5.2 mile stretch of coast, located on the Jack and Laura Dangermond Preserve (TNC), provides quiet areas for hauling-out and roosting for marine mammals and birds. The shoreline is characterized by extensive bedrock tidepools, interspersed with narrow to moderately wide sand beaches. It is backed by steep coastal bluffs and is not accessible except by foot traffic, inflatables, landing craft, or helicopter. The sand beach is discontinuous for motorized vehicles because of bedrock outcroppings which extend shoreward to the bluffs. The Point Conception to Government Point area at the south boundary of this division is a bedrock headland bordered by steep cliffs and narrow pocket beaches. Feifarek Beach, located at the south end of this Division provides limited access for foot traffic to the west and both foot traffic and ATVs to the east along a 1-mile section of coast in Division H. There are no sensitive coastal inlets in this area.

### **Division H Description**

This 13.7 mile stretch of coastline is primarily sandy shoreline backed by steep coastal bluffs. It includes portions of the Jack and Laura Dangermond Preserve (TNC) and Hollister Ranches. There are six sensitive inlets within this division. Long-shore travel is possible for heavy equipment and vehicles along much of the coastline from Feifarek Beach east to Arroyo El Bulito (AEB). Just to the east of AEB, the beach is narrowed by a seawall and may be impassible at high tides. Longshore beach access is likely to be interrupted between Canada de Santa Anita, Canada de Alegria and Canada Del Agua Caliente (CDAC). The beach is not passable between CDAC and Gaviota Pier under most conditions. There is an entry gate located at the east end of the Hollister Ranch.

### **Division I Description**

This 9.1 mile stretch of coast is characterized by isolated narrow cobble and sand beaches and is backed by high wave washed coastal bluffs. The shoreline is obstructed along much of its length by exposed bedrock outcroppings, rocky promontories that extend well into intertidal areas (east of Gaviota State Park, vic. Cementerio and Alcatraz Creeks, and cliffs at west end of Refugio State Beach). This topography blocks access for equipment and vehicles along much of the coastline. There are only seven access points along this shoreline. The configuration and nature of shorelines in this area change depending upon ocean and weather conditions and sand loss and replenishment.

### **Division J Description**

This 1.6 mile stretch of shoreline includes Refugio State Beach. The western portion of the shoreline is a protected cove accessible from the campground. From the west end of Refugio beach, there is 1 mile of unobstructed fine to medium grain sand beach. The beach is blocked by rocky outcroppings at the east end of the division. Beginning immediately east of the campground, the shoreline is backed by coastal cliffs and is inaccessible except by longshore travel. There is a paved bike path along the top of the coastal bluffs which extends 2.6 miles, from Refugio to El Capitan Beach. The bike path is damaged and through vehicular traffic between Refugio and El Capitan is not possible.

### **Division K Description**

This 2.4 mile stretch of shoreline includes El Capitan State Beach. The western portion of the shoreline, from the end of Refugio State Beach, is 1 mile of unobstructed fine to medium grain sand beach. Shoreline through access is blocked by rocky outcroppings at the east end of the division. There is a paved bike path along the top of the coastal bluffs which extends 2.6 miles, from Refugio to El Capitan Beach. The bike path is damaged and through vehicular traffic between Refugio and El Capitan is not possible.

### **Division L Description**

This 3.2 mile stretch of shoreline is characterized by narrow fine to medium grained sand beaches backed by steep cliffs. The western boundary of this division is a large rock on the beach located 0.6 mile west of El Capitan Ranch at Las Llagas Creek. The eastern boundary of the division is the bluffs just east of Dos Pueblos Creek. Vehicular traffic along the Division L shoreline is possible only during low tides due to intermittent narrowing of the beach.

### **Division M Description**

This 2.9 mile stretch of shoreline is characterized by narrow to moderately wide fine to medium grained sand beaches backed by steep cliffs. Access Points are few and on private property. Access to Eagle Canyon Creek is located on the road to Haskell's pier. Vehicular traffic along the Division M shoreline is possible but only during lower low tides due to intermittent narrowing of the beach, exposed rocks, cobbles, or beach profile. Obstructions and narrow beaches occur immediately east of Dos Pueblos

Creek, west of Eagle Creek and west of the pier. Most roadways are dirt. Haskell's pier and the Bacara Resort are in the SE section of this division. There is a public access point to Haskell's Beach at Tecolote Creek just east of the Bacara Resort.

### **Division N Description**

This 3.6 mile stretch of shoreline is characterized by fine to medium grained sand beaches backed by steep cliffs. Vehicular traffic along the division N shoreline is possible during most tides. There are two vehicular beach accesses, from north to south at Tecolote Creek immediately SE of Bacara Resort, Bell Creek through the Ellwood Onshore Facility, two-foot paths - one from Santa Barbara Shores Park and one from Sands Beach just east of Devereux Slough. There are two intertidal oil facilities on piers below Sand Piper Golf Course. There is an area of upper beach, ~ 1200 ft long within the Coal Oil Point Ecological Reserve which is closed along Devereux Slough to protect nesting western snowy plovers. Obtain instructions and guidance from the reserve manager, Cristina Sandoval.

### **Division O Description**

This 1.2 mile stretch of shoreline from western Isla Vista to Goleta Point is characterized by fine to medium grained sand beaches backed by steep cliffs. The beaches are narrow in the westernmost ~ 300 yds of the Division and are accessible to vehicular traffic only at lower tides. Beaches are relatively wide and accessible to vehicular traffic along the eastern shoreline of Isla Vista and continue to widen toward Goleta Point. The best vehicle access for this Division is from the west arm of the UCSB Campus Lagoon where there are no cliffs. There are four sets of stairs in Isla Vista within this Division. Parking is difficult in Isla Vista. Authorization to park on campus or to operate on the shorelines within this area must be obtained from the UCSB campus police. Under low tidal and high sand conditions vehicular traffic is possible around Goleta Point into Division P.

### **Division P Description**

This 2.3 mile stretch of shoreline from Goleta Point to the tar seep on the shoreline is characterized by fine to medium grained sand beaches backed by steep cliffs. There is a 0.9-mile-long stretch of uninterrupted sandy shoreline from Goleta Point to a rocky prominence which extends out into the water at the west end of the County Park. There is one stairway down to the beach in this segment. Goleta Beach County Park and the Beachside Cafe are in this division. There is good parking, staging areas, and access points to the beach along the county park. Vehicular access from the west end of Goleta Beach County Park to the large tar seep can be continuous if the mouth of the Goleta Slough is closed.

### **Division Q Description**

This 6.75 mile stretch of shoreline from the large beach tar seep on the Goleta shoreline along Hope Ranch and Mesa shorelines to Santa Barbara Point, just west of Leadbetter Beach, is characterized by fine to medium grained sand beaches backed by steep cliffs. The western most 0.45 mi section of Division Q has four larger and several smaller tar seeps along this section of shoreline which may obstruct vehicular traffic. Sand is underlain in many places by cobbles and low bedrock outcroppings which may

obstruct vehicle access when sand levels are low. Vehicles can access this shoreline through Hope Ranch and at Arroyo Burro Beach.

### **Division R Description**

This 6.2 mile stretch of shoreline extends from Santa Barbara Point to the Brown House on the beach west of Lookout Park in Summerland. The western 1/2 of the division is characterized by fine to medium grained sand beaches along a 3.0 mile stretch of high use shoreline from Santa Barbara Point to the Andre Clark Bird Refuge. This area is overseen by the City of Santa Barbara and includes the Harbor, Stearns Wharf, Hotel Row on Cabrillo Blvd and heavily used local beaches and parking areas where shoreline access for personnel and equipment is excellent. In large spill situations traffic and public use will have to be controlled. East of Andre Clark Bird Refuge the beaches become narrower and subject to wave wash. Although the beach is useable for vehicular traffic, access to and along the shoreline for vehicular traffic is more difficult because of steep cliffs, lack of roads and ramps, and extensive stretches of private property predominated by single family dwellings. During higher tides and/or low sand conditions, vehicular traffic along the beach may be impeded by cobbles and bedrock particularly around Fernald Point. Between Fernald Point and the end of Division R the beach narrows and through passage for vehicular traffic to Summerland Beach is generally impeded by wave-wash.

### **Division S Description**

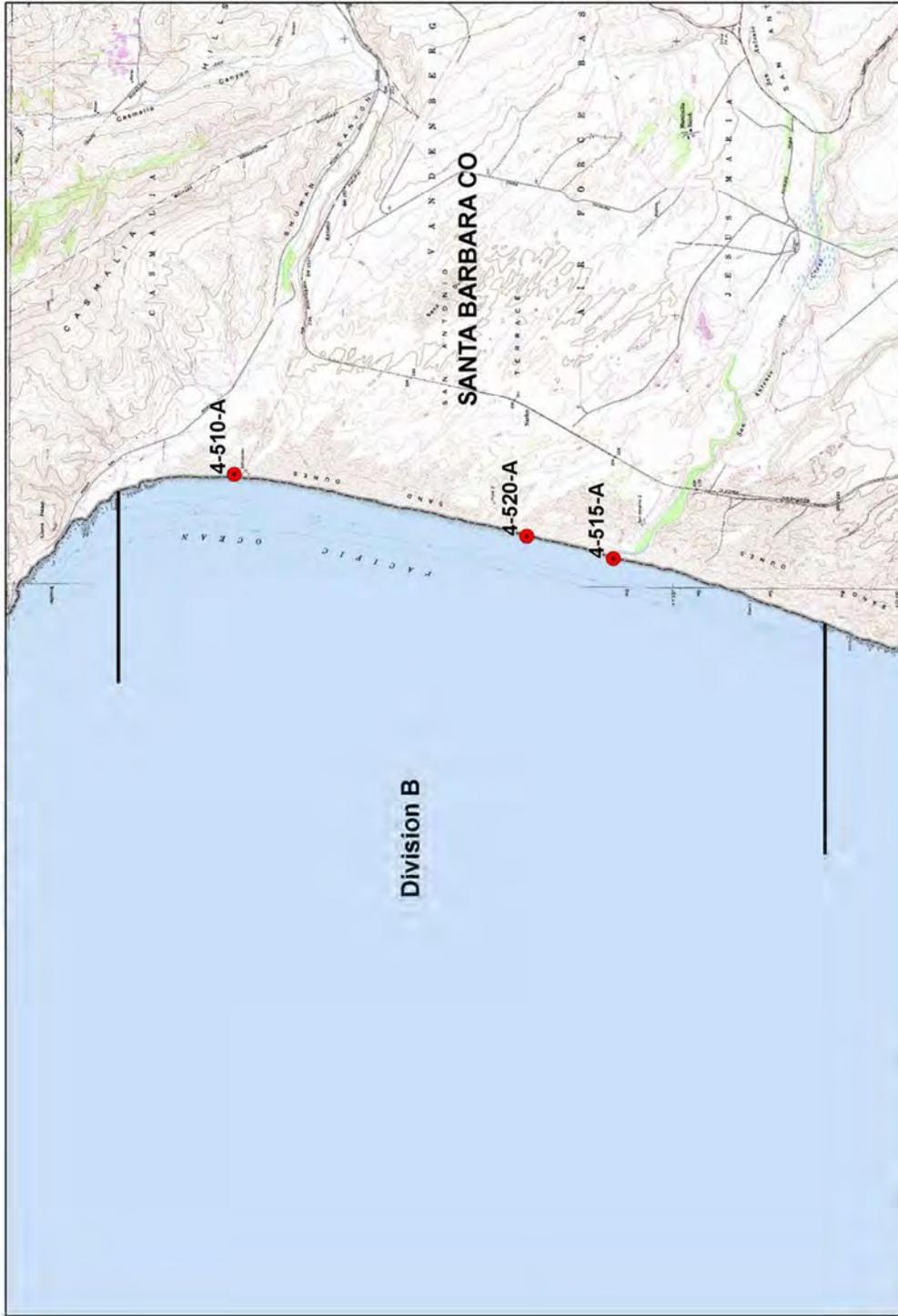
This 4.5 mile stretch of shoreline extends from the Brown House on the beach, west of Lookout Park in Summerland, east to the seaward end of Sandyland Cove Rd. just west of Carpinteria. The western 1.5 miles of the division, from just west of the brown house to Loon Pt., is characterized by fine to medium grained sand beaches backed by cliffs. There are two paved vehicular accesses in this segment and one-foot pathway at Padaro Ln. From Loon Pt to Beach Club Drive in the Serena area, the beach narrows under low sand conditions and may be covered by cobbles. During moderate tides, this shoreline becomes wave-washed. The remainder of the division from west Serena to the foot of Sandyland Cove Rd. is generally a wide fine to medium grain sand beach. The beach in this 2 mi. segment narrows in two locations and is likely to be impassible at high tide at the SE end of Santa Claus Ln. and at the mouth of Carpinteria Salt Marsh.

### **Division T Description**

This 3.6 mile stretch of shoreline is characterized by wide fine to medium grained sand beaches along the westernmost 1.5 mi. segment from just west of Ash St to just west of Dump Rd in Carpinteria. From Dump Rd and Casitas Pier, there is a 1.6 mi. segment of narrow, often obstructed sandy shoreline. The beach widens for 0.4 mi. near Rincon Beach Park to Rincon Creek mouth. There is a paved access road from the Rincon Beach Park to the beach. The shoreline narrows around the South and Eastern exposures of Rincon Pt. and becomes wave-washed at most tides.



Santa Barbara County Operational Divisions

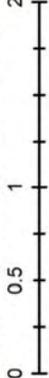


Source: Jennifer Gold / Mike Connell (OSPR)  
Map produced by: Greg Ewing (OSPR) March 29, 2011

Santa Barbara County Operational Divisions



 Sensitive Site  
 Division Line

Source: Jennifer Gold (OSPR)  
Map produced by: Seth Paine (OSPR) March 8, 2019  


# Santa Barbara County Operational Divisions



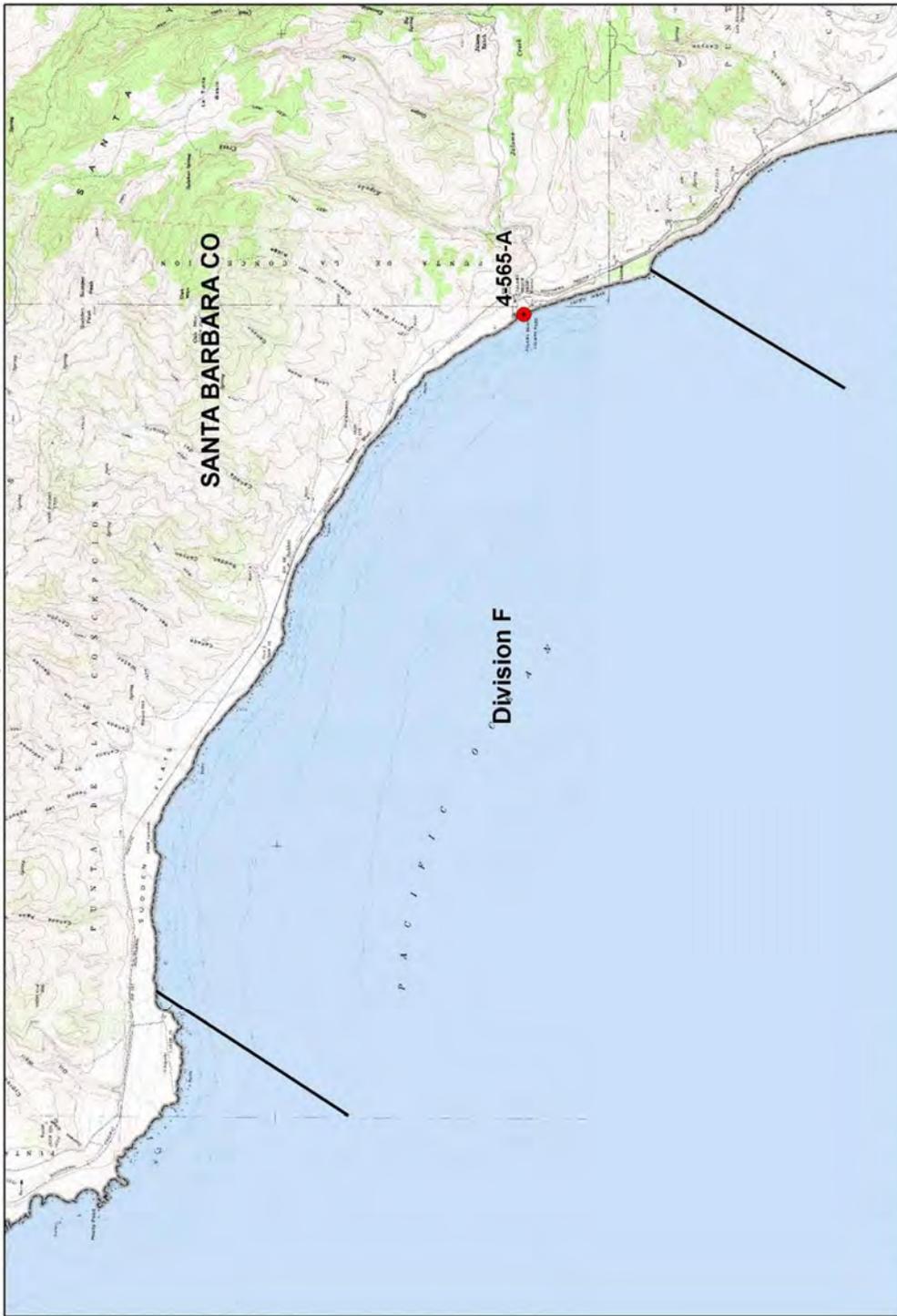
Source: Jennifer Gold / Mike Connell (OSPR)  
Map produced by: Greg Ewing (OSPR) March 29, 2011

● Sensitive Site  
— Division Line

# Santa Barbara County Operational Divisions

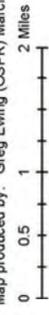


Santa Barbara County Operational Divisions

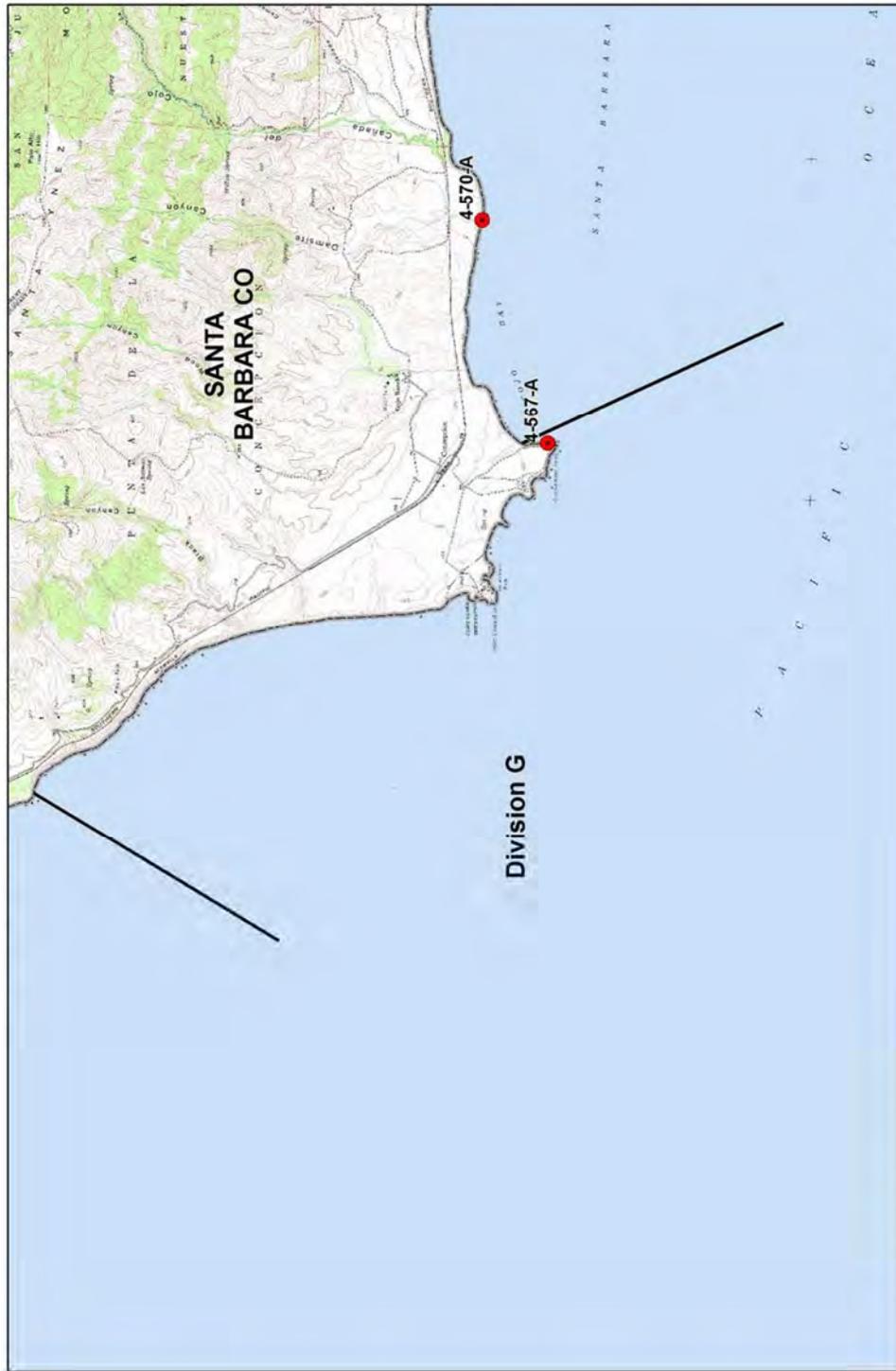


Source: Jennifer Gold / Mike Connell (OSPR)  
Map produced by: Greg Ewing (OSPR) March 29, 2011

● Sensitive Site  
— Division Line



# Santa Barbara County Operational Divisions



Source: Jennifer Gold / Mike Connell (OSPR)  
Map produced by: Greg Ewing (OSPR) March 21, 2011  
0 0.5 1 2 Miles

 Sensitive Site  
 Division Line

Santa Barbara County Operational Divisions



Source: Jennifer Gold (OSPR)  
Map produced by: Seth Paine (OSPR) March 8, 2019  
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# Santa Barbara County Operational Divisions

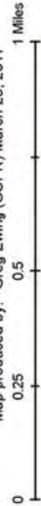


Santa Barbara County Operational Divisions



Source: Jennifer Gold / Mike Connell (OSPR)  
 Map produced by: Greg Ewing (OSPR) March 29, 2011

 Sensitive Site  
 Division Lines



Santa Barbara County Operational Divisions



Source: Jennifer Gold / Mike Connell (OSPR)  
 Map produced by: Greg Ewing (OSPR) March 29, 2011

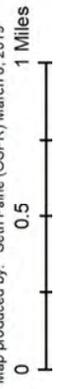
 Sensitive Site  
 Division Lines

Santa Barbara County Operational Divisions



Source: Jennifer Gold (OSPR)  
Map produced by: Seth Paine (OSPR) March 8, 2019

 Sensitive Site  
 Division Lines



Santa Barbara County Operational Divisions



Santa Barbara County Operational Divisions



Source: Jennifer Gold (OSPR)  
Map produced by: Seth Paine (OSPR) March 8, 2019  
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  Sensitive Site  
 Division Lines

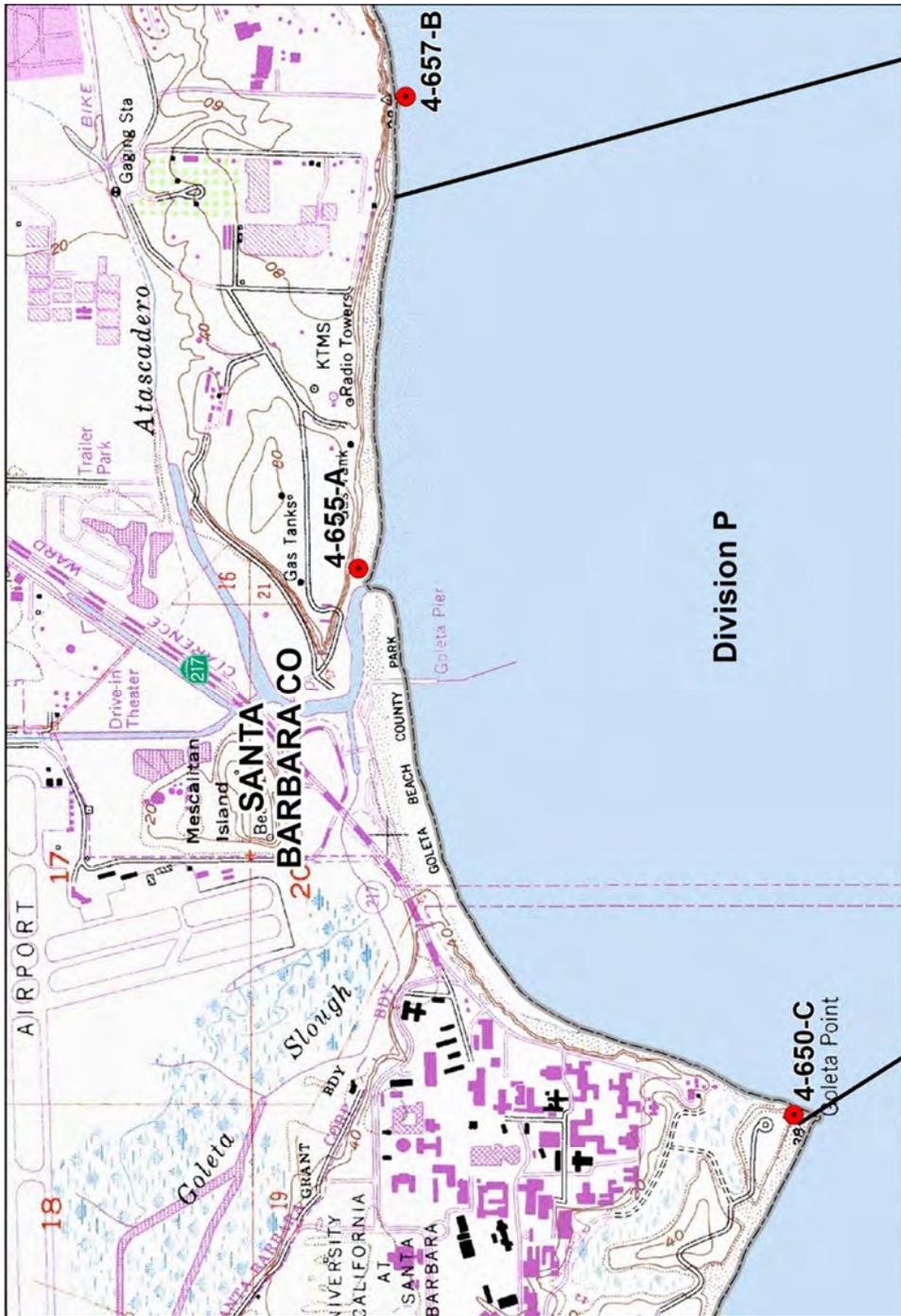
Santa Barbara County Operational Divisions



Source: Jennifer Gold (OSPR)  
 Map produced by: Seth Paine (OSPR) March 8, 2019


 Sensitive Site  
 Division Lines

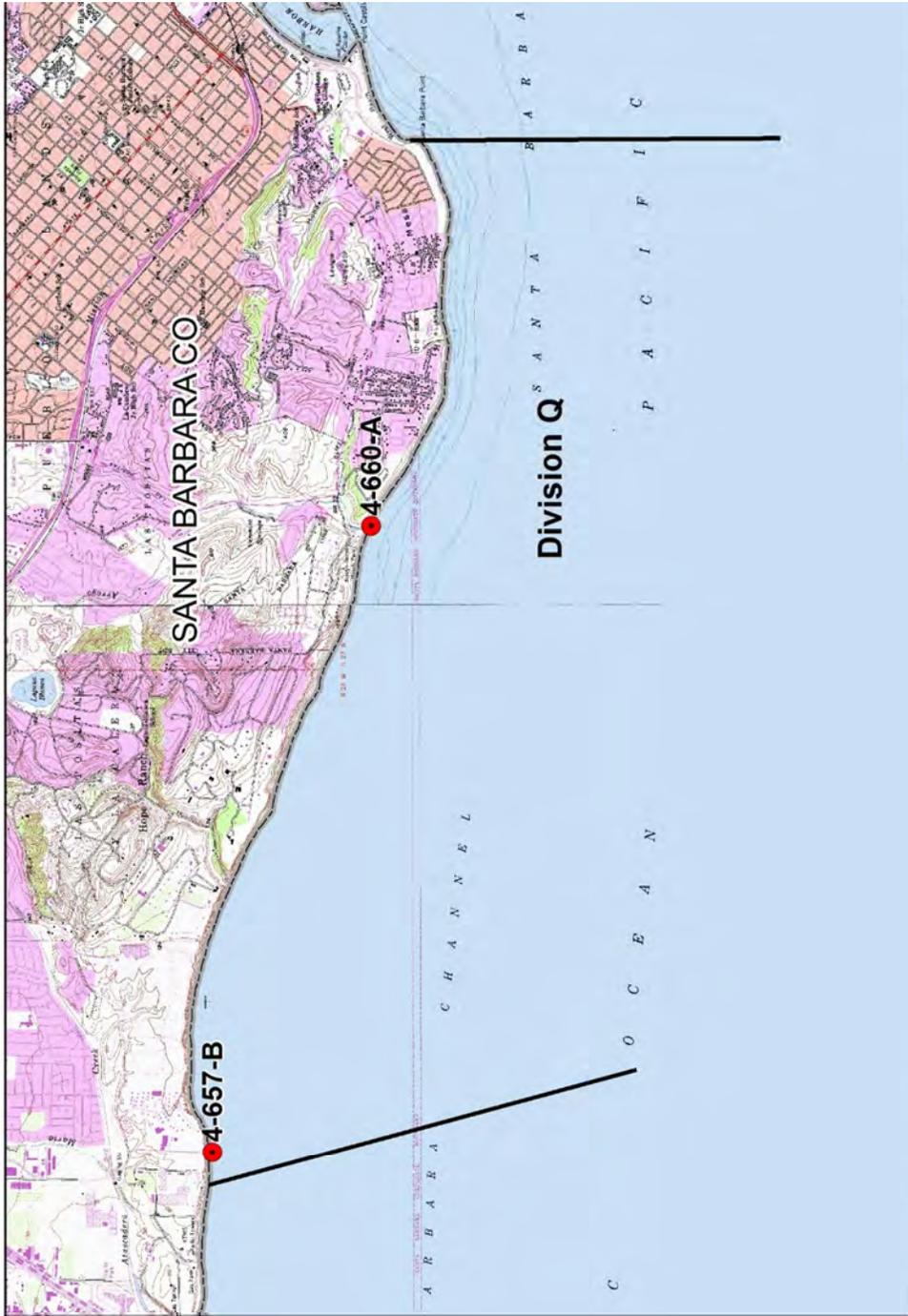
Santa Barbara County Operational Divisions



Source: Jennifer Gold (OSPR)  
 Map produced by: Seth Faine(OSPR) March 12, 2019  
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-  North Arrow
-  Sensitive Site
-  Division Line

Santa Barbara County Operational Divisions



Source: Jennifer Gold (OSPR)  
Map produced by: Seth Paine (OSPR) March 12, 2019

● Sensitive Site  
— Division Line



Santa Barbara County Operational Divisions



Source: Jennifer Gold (OSPR)  
Map produced by: Seth Payne (OSPR) March 12, 2019

● Sensitive Site  
— Division Lines

Santa Barbara County Operational Divisions



Source: Jennifer Gold  
 Map produced by: Seth Paine (OSPR) March 12, 2019

 Sensitive Site  
 Division Lines

