Appendix HYDRO-2 Playa Evaporation Assessment

PLAYA EVAPORATION ASSESSMENT

Hydrology / Water Quality

An analysis was conducted to estimate evapotranspiration (ET) demand for the natural communities mapped along the exposed Salton Sea playa that are fed by IID drain flows. Species dominance within each natural community was used to create representative ET values. ET demand in AF were calculated for several representative areas of the exposed playa where drain data was available (Figure H2-1). Six land cover types were not treated as channel-fed vegetation and were excluded from the ET analysis: these were agriculture, barren land, developed land, disturbed land, salt-panne, and the unvegetated channel/ditch beds. Evapotranspiration was calculated by using meteorological data to estimate the evapotranspiration rate for a reference cover, Eto, (an irrigated grass surface) and applying a crop adjustment factor, K_v, to yield an estimated rate for the target vegetation type, E_{tv}. Crop adjustment factors have been calculated for a range of commercial crops and some native vegetation types (e.g., cattail marsh and willow-cottonwood forest), but were not available for all the covers present in the Action Area. Where no crop adjustment factors were available, a comparable vegetation type was substituted. For example, Tamarisk Thickets were modeled as large stand riparian, while Iodine Bush-Bush Seepweed Scrub were modeled as large stand permanent wetlands (Table H2-1). Monthly and annual reference cover E₁₀ rates were obtained from the California Irrigation Management Information System (CIMIS) meteorological station 41 at Calipatria, in the center of the Action Area and transformed to average ET in AF for each vegetation type in the Action Area (Table H2-2). Multiplying the average ET in AF for each vegetation type by the acreage of each mapped natural community polygon yields monthly estimate of ET demand (Table H2-3).

The the drain data consisted of mean monthly flows in AF (see Appendix X) in 24 of th3 29 IID drains with flow recorders that flow to the Salton Sea. Five aggregated natural community polygons were created (groups): three locations on the west shore where spatially adjacent natural communities were clearly supplied drain water from a single source were each aggregated, and two locations on the east shore where spatial adjacent natural communities were fed by multiple drains. In the latter case, monthly drain data were also aggregated for the analysis.

The analysis compared estimated ET demands of the existing mapped vegetation with the volume of flows from the drains, attempting to compare water demand with water availability. The analysis assumes that ET values are evenly distributed within each vegetation polygon. Actual conditions show this to be a conservative assumption because most polygons show a heterogenous mix of healthy and stressed vegetation. Similarly, the analysis assumes that the flow application is evenly distributed within the vegetation polygon. This is a conservative assumption because aerial images show that flows are directed in channels that meander and change over time, conveying some flow directly to the Sea.

Monthly and annual ET demand and drain flow volumes were compared under existing conditions to the Proposed Action conditions (**Table H2-4** and **Table H2-5**). The comparison shows that under existing conditions, there are some months in three of the five vegetation drain groups where ET demand is greater than the supply of drain water (values in red shown in Table H2-4) In the month of June, the East Drains, Elmore Lake Spill to San Felipe Wash, and the Trifolium 22 Drain groups show a deficit of drain flows. Elmore Lake Spill to San Felipe Wash show a deficit in June and July. Moreover, in the east drains the deficit spanned May through November. However, on an annual basis all the groups show a surplus of drain flows. A similar pattern for the water balance was found under the Proposed Action conditions (Table H2-6), except that the deficit during the summer months was greater. In the East Drains the span of months with a deficit was the same as for existing conditions. In addition, the span of deficit in the Pumice Drain and the Trifolium 22 Drain included the month of July. However, overall, there was not a deficit of drain flows on an annual basis due to the Proposed Action.

TABLE H2-1
NATURAL COMMUNITIES AND LAND COVER TYPES ALONG THE SALTON SEA IN THE IID ACTION AREA

| Natural Community | ET Vegetation Type |
|---|------------------------------|
| Arrow Weed-Bush Seepweed Thickets/Scrub | Large stand riparian |
| Arrow Weed-BushSeepweed Thickets/Scrub | large stand riparian |
| Bush Seepweed Scrub | large stand permanent wetlan |
| Cattail Marsh | large stand permanent wetlan |
| Cattail-Common Reed Marsh | large stand permanent wetlan |
| Common Reed Marsh | large stand permanent wetlan |
| lodine Bush Scrub | large stand riparian |
| Iodine Bush-Bush Seepweed Scrub | large stand permanent wetlan |
| lodine Bush-Cattail Scrub/Marsh | large stand permanent wetlan |
| Tamarisk Thickets | large stand riparian |
| Tamarisk-Allscale Thickets/Scrub | large stand riparian |
| Tamarisk-Arrow Weed Thickets | large stand riparian |
| Tamarisk-Arrow Weed-Bush Seepweed Thickets/Scrub | large stand permanent wetlan |
| Tamarisk-Arrow Weed-lodine Bush Thickets/Scrub | large stand riparian |
| Tamarisk-Arrow Weed-Quailbush Thickets/Scrub | large stand riparian |
| Tamarisk-Bush Seepweed Thickets/Scrub | large stand permanent wetlan |
| Tamarisk-Cattail Thickets/Marsh | large stand permanent wetlan |
| Tamarisk-Cattail-Common Reed Thickets/Marsh | large stand permanent wetlan |
| Tamarisk Common Reed Thickets/Marsh | large stand permanent wetlan |
| Tamarisk-lodine Bush Thickets/Scrub | large stand riparian |
| Tamarisk-lodine Bush-Cattail Thickets/Scrub/Marsh | large stand permanent wetlan |
| Tamarisk-lodine Bush-Common Reed Thickets/Scrub/Marsh | large stand permanent wetlan |
| Tamarisk-lodine Bush-Quailbush Thickets/Scrub | large stand riparian |
| Tamarisk-Quailbush Thickets/Scrub | large stand riparian |
| Tamarisk-Quailbush-Cattail Thickets/Scrub/Marsh | large stand permanent wetlan |
| Tamarisk-Quailbush-Common Reed Thickets/Scrub/Marsh | large stand permanent wetlan |
| SOURCE: ESA | |

Table H2-2
Monthly average evapotranspiration (AF) for reference vegetation types in the IID Action Area.

| ET Vegetation type | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|-------------------------------|------|------|------|------|---------|---------|--------|---------|--------|------|------|------|
| | | | | Mont | hly Mea | an Evap | otrans | piratio | ı (AF) | | | |
| Large stand permanent wetland | 0.7 | 0.7 | 8.0 | 1 | 1.05 | 1.2 | 1.2 | 1.2 | 1.05 | 1.1 | 1 | 0.75 |
| Cottonwood | 0.81 | 0.72 | 0.61 | 0.66 | 0.82 | 0.94 | 1.02 | 1.02 | 1.07 | 1.08 | 0.88 | 0.89 |

Table H2-3

Vegetation type, acreage, Drain Group and monthly evapotranspiration for mapped vegetation polygons in the IID Action Area.

| Natural Community | ET Vegetation type | Acres | Drain Group | Jan ET | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|--|-------------------------------------|-------|----------------|-----------|------|-------|-------|-------|----------|----------|-------|-------|-------|------|------|
| | | | | | | | | Eva | apotrans | piration | (AF) | | | | |
| Tamarisk-Cattail Thickets/Marsh | Large stand permanent wetland | 0.5 | East Drains | 0.1 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.5 | 0.4 | 0.3 | 0.2 | 0.1 | 0.1 |
| Tamarisk-lodine Bush- Cattail Thickets/Scrub/Marsh | Large stand permanent wetland | 19.8 | East Drains | 2.9 | 3.9 | 7.1 | 11.5 | 14.7 | 17.8 | 18.2 | 16.7 | 11.7 | 9.1 | 5.1 | 2.8 |
| Tamarisk-lodine Bush Thickets/Scrub | cottonwood | 23.3 | East Drains | 4.0 | 4.8 | 6.4 | 9.0 | 13.5 | 16.5 | 18.2 | 16.7 | 14.1 | 10.6 | 5.3 | 3.9 |
| Iodine Bush-Cattail Scrub/Marsh | Large stand permanent wetland | 1.9 | East Drains | 0.3 | 0.4 | 0.7 | 1.1 | 1.4 | 1.7 | 1.8 | 1.6 | 1.1 | 0.9 | 0.5 | 0.3 |
| Iodine Bush Scrub | cottonwood | 2.0 | East Drains | 0.3 | 0.4 | 0.6 | 0.8 | 1.2 | 1.4 | 1.6 | 1.5 | 1.2 | 0.9 | 0.5 | 0.3 |
| Tamarisk Thickets | cottonwood | 0.6 | East Drains | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.4 | 0.5 | 0.4 | 0.4 | 0.3 | 0.1 | 0.1 |
| Tamarisk-lodine Bush Thickets/Scrub | cottonwood | 252.3 | East Drains | 43.4 | 51.5 | 69.1 | 97.0 | 146.5 | 178.4 | 196.8 | 180.7 | 152.2 | 114.4 | 57.1 | 42.1 |
| Tamarisk-Cattail- Common Reed Thickets/Marsh | Large stand permanent wetland | 0.9 | East Drains | 0.1 | 0.2 | 0.3 | 0.5 | 0.7 | 0.8 | 0.8 | 0.8 | 0.5 | 0.4 | 0.2 | 0.1 |
| Tamarisk-Cattail Thickets/Marsh | Large stand permanent wetland | 1.6 | East Drains | 0.2 | 0.3 | 0.6 | 0.9 | 1.2 | 1.5 | 1.5 | 1.4 | 1.0 | 0.7 | 0.4 | 0.2 |
| Tamarisk-lodine Bush Thickets/Scrub | cottonwood | 36.2 | East Drains | 6.2 | 7.4 | 9.9 | 13.9 | 21.0 | 25.6 | 28.3 | 25.9 | 21.8 | 16.4 | 8.2 | 6.0 |
| Tamarisk Thickets | cottonwood | 424.3 | East Drains | 72.9 | 86.7 | 116.3 | 163.0 | 246.4 | 299.9 | 330.9 | 303.8 | 255.9 | 192.3 | 96.0 | 70.8 |
| Iodine Bush Scrub | cottonwood | 12.7 | East Drains | 2.2 | 2.6 | 3.5 | 4.9 | 7.4 | 9.0 | 9.9 | 9.1 | 7.7 | 5.8 | 2.9 | 2.1 |
| Tamarisk-lodine Bush Thickets/Scrub | cottonwood | 63.0 | East Drains | 10.8 | 12.9 | 17.3 | 24.2 | 36.6 | 44.5 | 49.1 | 45.1 | 38.0 | 28.5 | 14.2 | 10.5 |
| Tamarisk-Cattail Thickets/Marsh | Large stand permanent wetland | 143.7 | East Drains | 21.3 | 28.5 | 51.7 | 83.7 | 106.9 | 129.7 | 131.9 | 121.1 | 85.1 | 66.4 | 37.0 | 20.2 |

| Natural Community | ET Vegetation type | Acres | Drain Group | Jan ET | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|--|-------------------------------------|-------|-----------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Tamarisk-Cattail- Common Reed Thickets/Marsh | Large stand permanent wetland | 2.6 | East Drains | 0.4 | 0.5 | 0.9 | 1.5 | 1.9 | 2.4 | 2.4 | 2.2 | 1.6 | 1.2 | 0.7 | 0.4 |
| Cattail Marsh | Large stand permanent wetland | 1.1 | East Drains | 0.2 | 0.2 | 0.4 | 0.6 | 0.8 | 1.0 | 1.0 | 0.9 | 0.6 | 0.5 | 0.3 | 0.2 |
| Tamarisk-Cattail Thickets/Marsh | Large stand permanent wetland | 261.5 | East Drains | 38.8 | 51.9 | 94.0 | 152.3 | 194.5 | 236.0 | 240.0 | 220.3 | 154.8 | 120.8 | 67.2 | 36.8 |
| Tamarisk Thickets | cottonwood | 10.3 | East Drains | 1.8 | 2.1 | 2.8 | 4.0 | 6.0 | 7.3 | 8.1 | 7.4 | 6.2 | 4.7 | 2.3 | 1.7 |
| Tamarisk Thickets | cottonwood | 12.0 | East Drains | 2.1 | 2.5 | 3.3 | 4.6 | 7.0 | 8.5 | 9.4 | 8.6 | 7.3 | 5.5 | 2.7 | 2.0 |
| Tamarisk-lodine Bush Thickets/Scrub | cottonwood | 0.6 | East Drains | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.4 | 0.4 | 0.4 | 0.3 | 0.3 | 0.1 | 0.1 |
| Tamarisk-Cattail- Common Reed Thickets/Marsh | Large stand permanent wetland | 1.4 | East Drains | 0.2 | 0.3 | 0.5 | 0.8 | 1.0 | 1.2 | 1.3 | 1.2 | 0.8 | 0.6 | 0.4 | 0.2 |
| Iodine Bush Scrub | cottonwood | 4.6 | East Drains | 0.8 | 0.9 | 1.3 | 1.8 | 2.7 | 3.3 | 3.6 | 3.3 | 2.8 | 2.1 | 1.0 | 0.8 |
| Iodine Bush Scrub | cottonwood | 24.5 | East Drains | 4.2 | 5.0 | 6.7 | 9.4 | 14.2 | 17.3 | 19.1 | 17.5 | 14.8 | 11.1 | 5.5 | 4.1 |
| Tamarisk-lodine Bush Thickets/Scrub | cottonwood | 13.7 | East Drains | 2.4 | 2.8 | 3.8 | 5.3 | 8.0 | 9.7 | 10.7 | 9.8 | 8.3 | 6.2 | 3.1 | 2.3 |
| Tamarisk Thickets | cottonwood | 2.6 | East Drains | 0.5 | 0.5 | 0.7 | 1.0 | 1.5 | 1.9 | 2.1 | 1.9 | 1.6 | 1.2 | 0.6 | 0.4 |
| Tamarisk-lodine Bush Thickets/Scrub | cottonwood | 823.8 | East Drains | 141.6 | 168.3 | 225.8 | 316.6 | 478.4 | 582.3 | 642.6 | 589.8 | 496.8 | 373.5 | 186.4 | 137.5 |
| Tamarisk Thickets | cottonwood | 0.8 | East Drains | 0.1 | 0.2 | 0.2 | 0.3 | 0.5 | 0.6 | 0.6 | 0.6 | 0.5 | 0.4 | 0.2 | 0.1 |
| Tamarisk-Quailbush Thickets/Scrub | cottonwood | 21.9 | Pumice Drain | 3.8 | 4.5 | 6.0 | 8.4 | 12.7 | 15.5 | 17.1 | 15.7 | 13.2 | 9.9 | 5.0 | 3.7 |
| Tamarisk Thickets | cottonwood | 18.5 | Pumice Drain | 3.2 | 3.8 | 5.1 | 7.1 | 10.7 | 13.0 | 14.4 | 13.2 | 11.1 | 8.4 | 4.2 | 3.1 |
| Tamarisk-lodine Bush- Cattail Thickets/Scrub/Marsh | Large stand permanent wetland | 7.2 | Trifolium 23 Drain | 1.1 | 1.4 | 2.6 | 4.2 | 5.3 | 6.5 | 6.6 | 6.0 | 4.2 | 3.3 | 1.8 | 1.0 |
| Cattail-Common Reed Marsh | Large stand permanent wetland | 1.7 | Trifolium 23 Drain | 0.3 | 0.3 | 0.6 | 1.0 | 1.3 | 1.5 | 1.6 | 1.4 | 1.0 | 0.8 | 0.4 | 0.2 |

| Natural Community | ET Vegetation type | Acres | Drain Group | Jan ET | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|--|-------------------------------------|-------|--|-----------|------|------|-------|-------|-------|-------|-------|-------|-------|------|------|
| Tamarisk-Cattail Thickets/Marsh | Large stand permanent wetland | 3.8 | Elmore Lake Spill to San Felipe Wash | 0.6 | 0.8 | 1.4 | 2.2 | 2.8 | 3.4 | 3.5 | 3.2 | 2.2 | 1.8 | 1.0 | 0.5 |
| Tamarisk-Cattail- Common Reed Thickets/Marsh | Large stand permanent wetland | 0.9 | Elmore Lake Spill to San Felipe Wash | 0.1 | 0.2 | 0.3 | 0.5 | 0.7 | 0.8 | 0.8 | 0.8 | 0.5 | 0.4 | 0.2 | 0.1 |
| Tamarisk-Cattail- Common Reed Thickets/Marsh | Large stand permanent wetland | 1.0 | Elmore Lake Spill to San Felipe Wash | 0.1 | 0.2 | 0.4 | 0.6 | 0.7 | 0.9 | 0.9 | 0.8 | 0.6 | 0.5 | 0.3 | 0.1 |
| Tamarisk-Allscale Thickets/Scrub | cottonwood | 0.7 | Trifolium 22 Drain | 0.1 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.5 | 0.4 | 0.3 | 0.2 | 0.1 |
| Cattail-Common Reed Marsh | Large stand permanent wetland | 56.5 | Trifolium 22 Drain | 8.4 | 11.2 | 20.3 | 32.9 | 42.0 | 51.0 | 51.9 | 47.6 | 33.4 | 26.1 | 14.5 | 7.9 |
| Tamarisk-lodine Bush- Cattail Thickets/Scrub/Marsh | Large stand permanent wetland | 211.4 | East Drains | 31.4 | 42.0 | 76.0 | 123.1 | 157.2 | 190.7 | 194.0 | 178.0 | 125.1 | 97.6 | 54.4 | 29.7 |
| Tamarisk-Cattail Thickets/Marsh | Large stand permanent wetland | 217.3 | East Drains | 32.3 | 43.2 | 78.1 | 126.5 | 161.6 | 196.1 | 199.4 | 183.0 | 128.6 | 100.3 | 55.9 | 30.6 |
| Tamarisk-lodine Bush Thickets/Scrub | cottonwood | 33.9 | East Drains | 5.8 | 6.9 | 9.3 | 13.0 | 19.7 | 24.0 | 26.5 | 24.3 | 20.5 | 15.4 | 7.7 | 5.7 |
| Tamarisk-lodine Bush- Quailbush Thickets/Scrub | cottonwood | 96.2 | East Drains | 16.5 | 19.7 | 26.4 | 37.0 | 55.9 | 68.0 | 75.1 | 68.9 | 58.0 | 43.6 | 21.8 | 16.1 |
| Tamarisk-lodine Bush Thickets/Scrub | cottonwood | 108.2 | East Drains | 18.6 | 22.1 | 29.6 | 41.6 | 62.8 | 76.5 | 84.4 | 77.4 | 65.2 | 49.0 | 24.5 | 18.0 |
| Iodine Bush-Cattail Scrub/Marsh | Large stand permanent wetland | 50.2 | East Drains | 7.5 | 10.0 | 18.0 | 29.2 | 37.3 | 45.3 | 46.1 | 42.3 | 29.7 | 23.2 | 12.9 | 7.1 |
| Tamarisk Thickets | cottonwood | 56.9 | East Drains | 9.8 | 11.6 | 15.6 | 21.9 | 33.1 | 40.2 | 44.4 | 40.8 | 34.3 | 25.8 | 12.9 | 9.5 |
| Tamarisk-lodine Bush- Common Reed Thickets/Scrub/Marsh | Large stand permanent wetland | 122.2 | East Drains | 18.2 | 24.3 | 43.9 | 71.2 | 90.9 | 110.3 | 112.2 | 103.0 | 72.3 | 56.4 | 31.4 | 17.2 |
| Tamarisk-lodine Bush- Cattail Thickets/Scrub/Marsh | Large stand permanent wetland | 9.1 | East Drains | 1.4 | 1.8 | 3.3 | 5.3 | 6.8 | 8.2 | 8.3 | 7.7 | 5.4 | 4.2 | 2.3 | 1.3 |

| Natural Community | ET Vegetation type | Acres | Drain Group | Jan ET | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|--|-------------------------------------|-------|--|-----------|------|------|-------|-------|-------|-------|-------|-------|-------|------|------|
| Tamarisk-lodine Bush- Cattail Thickets/Scrub/Marsh | Large stand permanent wetland | 124.1 | East Drains | 18.4 | 24.6 | 44.6 | 72.2 | 92.3 | 112.0 | 113.8 | 104.5 | 73.4 | 57.3 | 31.9 | 17.4 |
| Tamarisk Thickets | cottonwood | 60.7 | East Drains | 10.4 | 12.4 | 16.6 | 23.3 | 35.2 | 42.9 | 47.3 | 43.5 | 36.6 | 27.5 | 13.7 | 10.1 |
| Tamarisk Thickets | cottonwood | 24.0 | East Drains | 4.1 | 4.9 | 6.6 | 9.2 | 14.0 | 17.0 | 18.7 | 17.2 | 14.5 | 10.9 | 5.4 | 4.0 |
| Iodine Bush Scrub | cottonwood | 91.8 | East Drains | 15.8 | 18.8 | 25.2 | 35.3 | 53.3 | 64.9 | 71.6 | 65.8 | 55.4 | 41.6 | 20.8 | 15.3 |
| Tamarisk-lodine Bush Thickets/Scrub | cottonwood | 268.8 | East Drains | 46.2 | 54.9 | 73.7 | 103.3 | 156.1 | 190.0 | 209.7 | 192.5 | 162.1 | 121.9 | 60.8 | 44.9 |
| Tamarisk-Cattail Thickets/Marsh | Large stand permanent wetland | 90.3 | East Drains | 13.4 | 17.9 | 32.4 | 52.6 | 67.1 | 81.5 | 82.8 | 76.0 | 53.4 | 41.7 | 23.2 | 12.7 |
| Tamarisk-Cattail- Common Reed Thickets/Marsh | Large stand permanent wetland | 36.5 | East Drains | 5.4 | 7.2 | 13.1 | 21.2 | 27.1 | 32.9 | 33.5 | 30.7 | 21.6 | 16.8 | 9.4 | 5.1 |
| Tamarisk Thickets | cottonwood | 63.0 | East Drains | 10.8 | 12.9 | 17.3 | 24.2 | 36.6 | 44.6 | 49.2 | 45.1 | 38.0 | 28.6 | 14.3 | 10.5 |
| Tamarisk-lodine Bush Thickets/Scrub | cottonwood | 3.2 | East Drains | 0.6 | 0.7 | 0.9 | 1.2 | 1.9 | 2.3 | 2.5 | 2.3 | 1.9 | 1.5 | 0.7 | 0.5 |
| Tamarisk Thickets | cottonwood | 27.5 | Pumice Drain | 4.7 | 5.6 | 7.5 | 10.6 | 16.0 | 19.4 | 21.5 | 19.7 | 16.6 | 12.5 | 6.2 | 4.6 |
| Tamarisk-Cattail Thickets/Marsh | Large stand permanent wetland | 138.7 | Pumice Drain | 20.6 | 27.5 | 49.9 | 80.8 | 103.2 | 125.2 | 127.3 | 116.8 | 82.1 | 64.1 | 35.7 | 19.5 |
| Tamarisk-lodine Bush- Common Reed Thickets/Scrub/Marsh | Large stand permanent wetland | 29.4 | Pumice Drain | 4.4 | 5.8 | 10.6 | 17.1 | 21.9 | 26.6 | 27.0 | 24.8 | 17.4 | 13.6 | 7.6 | 4.1 |
| Tamarisk-Cattail- Common Reed Thickets/Marsh | Large stand permanent wetland | 81.0 | Trifolium 22 Drain | 12.0 | 16.1 | 29.1 | 47.2 | 60.3 | 73.1 | 74.3 | 68.2 | 47.9 | 37.4 | 20.8 | 11.4 |
| Tamarisk-Arrow Weed- lodine Bush Thickets/Scrub | cottonwood | 51.9 | Elmore Lake Spill to San Felipe Wash | 8.9 | 10.6 | 14.2 | 20.0 | 30.2 | 36.7 | 40.5 | 37.2 | 31.3 | 23.6 | 11.8 | 8.7 |
| Tamarisk Thickets | cottonwood | 121.1 | Trifolium 23 Drain | 20.8 | 24.7 | 33.2 | 46.6 | 70.4 | 85.6 | 94.5 | 86.7 | 73.1 | 54.9 | 27.4 | 20.2 |
| Tamarisk-lodine Bush- Quailbush Thickets/Scrub | cottonwood | 0.6 | East Drains | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.4 | 0.5 | 0.4 | 0.3 | 0.3 | 0.1 | 0.1 |

| Natural Community | ET Vegetation type | Acres | Drain Group | Jan ET | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|--|-------------------------------------|-------|-----------------|-----------|-----|-----|-----|-----|------|------|------|------|-----|-----|-----|
| Iodine Bush Scrub | cottonwood | 1.8 | East Drains | 0.3 | 0.4 | 0.5 | 0.7 | 1.0 | 1.3 | 1.4 | 1.3 | 1.1 | 0.8 | 0.4 | 0.3 |
| Iodine Bush Scrub | cottonwood | 16.4 | East Drains | 2.8 | 3.4 | 4.5 | 6.3 | 9.5 | 11.6 | 12.8 | 11.8 | 9.9 | 7.4 | 3.7 | 2.7 |
| Iodine Bush Scrub | cottonwood | 5.5 | East Drains | 0.9 | 1.1 | 1.5 | 2.1 | 3.2 | 3.9 | 4.3 | 3.9 | 3.3 | 2.5 | 1.2 | 0.9 |
| Tamarisk-lodine Bush Thickets/Scrub | cottonwood | 13.5 | Pumice Drain | 2.3 | 2.8 | 3.7 | 5.2 | 7.9 | 9.6 | 10.6 | 9.7 | 8.2 | 6.1 | 3.1 | 2.3 |
| Tamarisk Thickets | cottonwood | 16.6 | Pumice Drain | 2.8 | 3.4 | 4.5 | 6.4 | 9.6 | 11.7 | 12.9 | 11.9 | 10.0 | 7.5 | 3.8 | 2.8 |
| Tamarisk Thickets | cottonwood | 3.1 | Pumice Drain | 0.5 | 0.6 | 0.9 | 1.2 | 1.8 | 2.2 | 2.4 | 2.2 | 1.9 | 1.4 | 0.7 | 0.5 |
| Tamarisk-Cattail Thickets/Marsh | Large stand permanent wetland | 7.4 | East Drains | 1.1 | 1.5 | 2.6 | 4.3 | 5.5 | 6.7 | 6.8 | 6.2 | 4.4 | 3.4 | 1.9 | 1.0 |
| Tamarisk-Cattail- Common Reed Thickets/Marsh | Large stand permanent wetland | 0.7 | East Drains | 0.1 | 0.1 | 0.3 | 0.4 | 0.5 | 0.6 | 0.6 | 0.6 | 0.4 | 0.3 | 0.2 | 0.1 |
| Tamarisk-lodine Bush- Cattail Thickets/Scrub/Marsh | Large stand permanent wetland | 0.7 | East Drains | 0.1 | 0.1 | 0.2 | 0.4 | 0.5 | 0.6 | 0.6 | 0.6 | 0.4 | 0.3 | 0.2 | 0.1 |
| Iodine Bush Scrub | cottonwood | 0.5 | East Drains | 0.1 | 0.1 | 0.1 | 0.2 | 0.3 | 0.3 | 0.4 | 0.3 | 0.3 | 0.2 | 0.1 | 0.1 |
| Iodine Bush Scrub | cottonwood | 4.0 | East Drains | 0.7 | 0.8 | 1.1 | 1.5 | 2.3 | 2.8 | 3.1 | 2.9 | 2.4 | 1.8 | 0.9 | 0.7 |
| Iodine Bush Scrub | cottonwood | 1.7 | East Drains | 0.3 | 0.3 | 0.5 | 0.7 | 1.0 | 1.2 | 1.3 | 1.2 | 1.0 | 8.0 | 0.4 | 0.3 |
| Iodine Bush Scrub | cottonwood | 0.5 | East Drains | 0.1 | 0.1 | 0.1 | 0.2 | 0.3 | 0.3 | 0.4 | 0.3 | 0.3 | 0.2 | 0.1 | 0.1 |
| Tamarisk-lodine Bush- Cattail Thickets/Scrub/Marsh | Large stand permanent wetland | 0.7 | East Drains | 0.1 | 0.1 | 0.2 | 0.4 | 0.5 | 0.6 | 0.6 | 0.6 | 0.4 | 0.3 | 0.2 | 0.1 |
| Cattail Marsh | Large stand permanent wetland | 2.3 | East Drains | 0.3 | 0.5 | 0.8 | 1.3 | 1.7 | 2.1 | 2.1 | 1.9 | 1.4 | 1.1 | 0.6 | 0.3 |
| Cattail Marsh | Large stand permanent wetland | 0.2 | East Drains | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 |
| Tamarisk-lodine Bush- Cattail Thickets/Scrub/Marsh | Large stand permanent wetland | 0.1 | East Drains | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 |

| Natural Community | ET Vegetation type | Acres | Drain Group | Jan ET | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|--|-------------------------------------|-------|----------------|-----------|------|------|-------|-------|-------|-------|-------|-------|------|------|------|
| Tamarisk-lodine Bush- Cattail Thickets/Scrub/Marsh | Large stand permanent wetland | 1.1 | East Drains | 0.2 | 0.2 | 0.4 | 0.7 | 0.9 | 1.0 | 1.1 | 1.0 | 0.7 | 0.5 | 0.3 | 0.2 |
| Tamarisk-Cattail- Common Reed Thickets/Marsh | Large stand permanent wetland | 20.8 | East Drains | 3.1 | 4.1 | 7.5 | 12.1 | 15.5 | 18.8 | 19.1 | 17.5 | 12.3 | 9.6 | 5.3 | 2.9 |
| Cattail Marsh | Large stand permanent wetland | 7.7 | East Drains | 1.1 | 1.5 | 2.8 | 4.5 | 5.7 | 6.9 | 7.0 | 6.5 | 4.5 | 3.5 | 2.0 | 1.1 |
| Tamarisk-Quailbush- Cattail Thickets/Scrub/Marsh | Large stand permanent wetland | 0.2 | East Drains | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.0 |
| Tamarisk-lodine Bush- Cattail Thickets/Scrub/Marsh | Large stand permanent wetland | 212.6 | East Drains | 31.6 | 42.2 | 76.4 | 123.8 | 158.1 | 191.9 | 195.1 | 179.1 | 125.8 | 98.2 | 54.7 | 29.9 |
| Tamarisk-Cattail- Common Reed Thickets/Marsh | Large stand permanent wetland | 4.3 | East Drains | 0.6 | 0.9 | 1.5 | 2.5 | 3.2 | 3.9 | 3.9 | 3.6 | 2.5 | 2.0 | 1.1 | 0.6 |
| Tamarisk-lodine Bush- Cattail Thickets/Scrub/Marsh | Large stand permanent wetland | 2.9 | East Drains | 0.4 | 0.6 | 1.0 | 1.7 | 2.1 | 2.6 | 2.6 | 2.4 | 1.7 | 1.3 | 0.7 | 0.4 |
| Tamarisk-Quailbush- Cattail Thickets/Scrub/Marsh | Large stand permanent wetland | 15.4 | East Drains | 2.3 | 3.1 | 5.5 | 9.0 | 11.5 | 13.9 | 14.1 | 13.0 | 9.1 | 7.1 | 4.0 | 2.2 |
| Tamarisk-Quailbush- Common Reed Thickets/Scrub/Marsh | Large stand permanent wetland | 6.3 | East Drains | 0.9 | 1.2 | 2.3 | 3.7 | 4.7 | 5.7 | 5.8 | 5.3 | 3.7 | 2.9 | 1.6 | 0.9 |
| Tamarisk-Quailbush Thickets/Scrub | cottonwood | 0.1 | East Drains | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 |
| Tamarisk-lodine Bush Thickets/Scrub | cottonwood | 0.8 | East Drains | 0.1 | 0.2 | 0.2 | 0.3 | 0.5 | 0.6 | 0.6 | 0.6 | 0.5 | 0.4 | 0.2 | 0.1 |
| Tamarisk-Cattail Thickets/Marsh | Large stand permanent wetland | 0.5 | East Drains | 0.1 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.5 | 0.4 | 0.3 | 0.2 | 0.1 | 0.1 |
| Tamarisk-Quailbush Thickets/Scrub | cottonwood | 2.3 | East Drains | 0.4 | 0.5 | 0.6 | 0.9 | 1.3 | 1.6 | 1.8 | 1.7 | 1.4 | 1.1 | 0.5 | 0.4 |

| Natural Community | ET Vegetation type | Acres | Drain Group | Jan ET | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|--|-------------------------------------|-------|----------------|-----------|------|------|------|-------|-------|-------|-------|------|------|------|------|
| Cattail Marsh | Large stand permanent wetland | 2.5 | East Drains | 0.4 | 0.5 | 0.9 | 1.5 | 1.9 | 2.3 | 2.3 | 2.1 | 1.5 | 1.2 | 0.6 | 0.4 |
| Iodine Bush Scrub | cottonwood | 1.9 | East Drains | 0.3 | 0.4 | 0.5 | 0.7 | 1.1 | 1.3 | 1.4 | 1.3 | 1.1 | 0.8 | 0.4 | 0.3 |
| Tamarisk-Cattail Thickets/Marsh | Large stand permanent wetland | 3.7 | East Drains | 0.6 | 0.7 | 1.3 | 2.2 | 2.8 | 3.4 | 3.4 | 3.1 | 2.2 | 1.7 | 1.0 | 0.5 |
| Tamarisk-Cattail Thickets/Marsh | Large stand permanent wetland | 0.8 | East Drains | 0.1 | 0.2 | 0.3 | 0.4 | 0.6 | 0.7 | 0.7 | 0.6 | 0.5 | 0.4 | 0.2 | 0.1 |
| Tamarisk-Cattail- Common Reed Thickets/Marsh | Large stand permanent wetland | 4.1 | East Drains | 0.6 | 0.8 | 1.5 | 2.4 | 3.1 | 3.7 | 3.8 | 3.5 | 2.4 | 1.9 | 1.1 | 0.6 |
| Tamarisk Thickets | cottonwood | 0.6 | East Drains | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.4 | 0.5 | 0.4 | 0.4 | 0.3 | 0.1 | 0.1 |
| Tamarisk-Cattail Thickets/Marsh | Large stand permanent wetland | 0.2 | East Drains | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 |
| Tamarisk-lodine Bush- Cattail Thickets/Scrub/Marsh | Large stand permanent wetland | 2.0 | East Drains | 0.3 | 0.4 | 0.7 | 1.1 | 1.5 | 1.8 | 1.8 | 1.7 | 1.2 | 0.9 | 0.5 | 0.3 |
| Tamarisk-lodine Bush Thickets/Scrub | cottonwood | 1.1 | East Drains | 0.2 | 0.2 | 0.3 | 0.4 | 0.6 | 0.7 | 0.8 | 0.8 | 0.6 | 0.5 | 0.2 | 0.2 |
| Tamarisk-Cattail- Common Reed Thickets/Marsh | Large stand permanent wetland | 147.8 | East Drains | 22.0 | 29.4 | 53.1 | 86.1 | 109.9 | 133.4 | 135.7 | 124.5 | 87.5 | 68.3 | 38.0 | 20.8 |
| Tamarisk-Cattail Thickets/Marsh | Large stand permanent wetland | 14.1 | East Drains | 2.1 | 2.8 | 5.1 | 8.2 | 10.5 | 12.7 | 13.0 | 11.9 | 8.4 | 6.5 | 3.6 | 2.0 |
| Tamarisk-Cattail- Common Reed Thickets/Marsh | Large stand permanent wetland | 1.9 | East Drains | 0.3 | 0.4 | 0.7 | 1.1 | 1.4 | 1.7 | 1.7 | 1.6 | 1.1 | 0.9 | 0.5 | 0.3 |
| Tamarisk Thickets | cottonwood | 0.8 | East Drains | 0.1 | 0.2 | 0.2 | 0.3 | 0.5 | 0.6 | 0.6 | 0.6 | 0.5 | 0.4 | 0.2 | 0.1 |
| Tamarisk-Cattail Thickets/Marsh | Large stand permanent wetland | 1.2 | East Drains | 0.2 | 0.2 | 0.4 | 0.7 | 0.9 | 1.0 | 1.1 | 1.0 | 0.7 | 0.5 | 0.3 | 0.2 |
| Tamarisk Thickets | cottonwood | 4.6 | East Drains | 8.0 | 0.9 | 1.3 | 1.8 | 2.7 | 3.3 | 3.6 | 3.3 | 2.8 | 2.1 | 1.1 | 0.8 |

| Natural Community | ET Vegetation type | Acres | Drain Group | Jan ET | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|--|-------------------------------------|-------|--|-----------|------|------|------|------|------|------|------|------|------|------|-----|
| Iodine Bush Scrub | cottonwood | 10.3 | East Drains | 1.8 | 2.1 | 2.8 | 3.9 | 6.0 | 7.3 | 8.0 | 7.3 | 6.2 | 4.7 | 2.3 | 1.7 |
| Iodine Bush Scrub | cottonwood | 1.6 | East Drains | 0.3 | 0.3 | 0.4 | 0.6 | 0.9 | 1.1 | 1.3 | 1.2 | 1.0 | 0.7 | 0.4 | 0.3 |
| Tamarisk-lodine Bush- Quailbush Thickets/Scrub | cottonwood | 0.9 | East Drains | 0.1 | 0.2 | 0.2 | 0.3 | 0.5 | 0.6 | 0.7 | 0.6 | 0.5 | 0.4 | 0.2 | 0.1 |
| Tamarisk-lodine Bush- Cattail Thickets/Scrub/Marsh | Large stand permanent wetland | 4.4 | East Drains | 0.6 | 0.9 | 1.6 | 2.5 | 3.2 | 3.9 | 4.0 | 3.7 | 2.6 | 2.0 | 1.1 | 0.6 |
| Tamarisk Thickets | cottonwood | 1.2 | East Drains | 0.2 | 0.3 | 0.3 | 0.5 | 0.7 | 0.9 | 1.0 | 0.9 | 0.7 | 0.6 | 0.3 | 0.2 |
| Tamarisk-lodine Bush- Cattail Thickets/Scrub/Marsh | Large stand permanent wetland | 1.0 | East Drains | 0.2 | 0.2 | 0.4 | 0.6 | 0.8 | 0.9 | 0.9 | 0.9 | 0.6 | 0.5 | 0.3 | 0.1 |
| Tamarisk-lodine Bush- Cattail Thickets/Scrub/Marsh | Large stand permanent wetland | 0.5 | East Drains | 0.1 | 0.1 | 0.2 | 0.3 | 0.3 | 0.4 | 0.4 | 0.4 | 0.3 | 0.2 | 0.1 | 0.1 |
| Iodine Bush Scrub | cottonwood | 1.4 | Trifolium 23 Drain | 0.2 | 0.3 | 0.4 | 0.5 | 8.0 | 1.0 | 1.1 | 1.0 | 0.8 | 0.6 | 0.3 | 0.2 |
| Iodine Bush Scrub | cottonwood | 0.3 | East Drains | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 |
| Tamarisk Thickets | cottonwood | 49.1 | Elmore Lake Spill to San Felipe Wash | 8.4 | 10.0 | 13.4 | 18.9 | 28.5 | 34.7 | 38.3 | 35.1 | 29.6 | 22.2 | 11.1 | 8.2 |
| Tamarisk-lodine Bush Thickets/Scrub | cottonwood | 25.1 | Trifolium 22 Drain | 4.3 | 5.1 | 6.9 | 9.6 | 14.6 | 17.7 | 19.6 | 18.0 | 15.1 | 11.4 | 5.7 | 4.2 |
| Cattail Marsh | Large stand permanent wetland | 0.3 | East Drains | 0.1 | 0.1 | 0.1 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.1 | 0.0 |
| Cattail Marsh | Large stand permanent wetland | 62.8 | East Drains | 9.3 | 12.5 | 22.6 | 36.5 | 46.7 | 56.6 | 57.6 | 52.9 | 37.1 | 29.0 | 16.1 | 8.8 |
| Cattail Marsh | Large stand permanent wetland | 6.1 | East Drains | 0.9 | 1.2 | 2.2 | 3.5 | 4.5 | 5.5 | 5.6 | 5.1 | 3.6 | 2.8 | 1.6 | 0.9 |
| Cattail Marsh | Large stand permanent wetland | 64.8 | East Drains | 9.6 | 12.9 | 23.3 | 37.7 | 48.2 | 58.5 | 59.5 | 54.6 | 38.4 | 29.9 | 16.7 | 9.1 |

| Natural Community | ET Vegetation type | Acres | Drain Group | Jan ET | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|------------------------------------|-------------------------------------|-------|----------------|-----------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| Cattail-Common Reed Marsh | Large stand permanent wetland | 0.5 | East Drains | 0.1 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.5 | 0.5 | 0.3 | 0.3 | 0.1 | 0.1 |
| Tamarisk-Cattail Thickets/Marsh | Large stand permanent wetland | 293.3 | East Drains | 43.6 | 58.2 | 105.4 | 170.8 | 218.1 | 264.6 | 269.1 | 247.0 | 173.6 | 135.4 | 75.4 | 41.2 |

TABLE H2-4

EXISTING CONDITIONS MONTHLY EVAPOTRANSPIRATION, MEAN MONTHLY DRAIN FLOWS, AND WATER BALANCE FOR NATURAL COMMUNITIES MAPPED ALONG THE EXPOSED PLAYA IN THE SALTON SEA SURVEY AREA. ANNUAL SUMMARIES OF EACH PARAMETER ARE ALSO SHOWN

| Vegetation Drain Group | January | February | March | April | May | June | July | August | September | October | November | December | Annual |
|--|---------|----------|-------|--------|------------|------------|------------|------------|-----------|---------|----------|----------|--------|
| | | | | | | Monthly | ET (AF) | | | | | | |
| East Drains | 767 | 961 | 1,492 | 2,265 | 3,124 | 3,796 | 4,017 | 3,687 | 2,848 | 2,178 | 1,146 | 737 | 27,018 |
| Elmore Lake Spill to San Felipe Wash | 18 | 22 | 30 | 42 | 63 | 77 | 84 | 77 | 64 | 48 | 24 | 18 | 567 |
| Pumice Drain | 42 | 54 | 88 | 137 | 184 | 223 | 233 | 214 | 161 | 123 | 66 | 41 | 1,566 |
| Trifolium 22 Drain | 25 | 33 | 56 | 90 | 117 | 142 | 146 | 134 | 97 | 75 | 41 | 24 | 981 |
| Trifolium 23 Drain | 22 | 27 | 37 | 52 | 78 | 95 | 104 | 95 | 79 | 60 | 30 | 22 | 700 |
| | | | | | Mear | Monthly D | rain Flows | (AF) | | | | 1 | |
| East Drains | 1,999 | 2,070 | 2,676 | 2,825 | 3,261 | 3,405 | 3,495 | 3,256 | 2,852 | 2,415 | 2,251 | 2,011 | 32,515 |
| Elmore Lake Spill to San Felipe Wash | 168 | 108 | 107 | 58 | 38 | 54 | 90 | 114 | 120 | 144 | 176 | 209 | 1,384 |
| Pumice Drain | 1,005 | 910 | 1,300 | 1,588 | 1,418 | 1,596 | 1,644 | 1,269 | 1,387 | 1,994 | 1,760 | 1,409 | 17,279 |
| Trifolium 22 Drain | 240 | 264 | 652 | 507 | 206 | 162 | 227 | 248 | 179 | 256 | 258 | 261 | 3,459 |
| Trifolium 23 Drain | 228 | 246 | 340 | 314 | 248 | 240 | 347 | 257 | 309 | 364 | 302 | 250 | 3,446 |
| | | | | Existi | ng Monthly | Flows minu | s ET Dema | nd Balance | (AF) | | | | |
| East Drains | 1,231 | 1,109 | 1,184 | 561 | 138 | (391) | (522) | (431) | 4 | 237 | 1,105 | 1,274 | 5,498 |
| Elmore Lake Spill to San Felipe Wash | 150 | 86 | 77 | 16 | (25) | (22) | 6 | 37 | 55 | 95 | 151 | 191 | 817 |
| Pumice Drain | 963 | 856 | 1,212 | 1,451 | 1,235 | 1,372 | 1,411 | 1,055 | 1,226 | 1,870 | 1,694 | 1,368 | 15,712 |
| Trifolium 22 Drain | 215 | 232 | 595 | 417 | 89 | 20 | 80 | 114 | 82 | 181 | 217 | 237 | 2,478 |
| Trifolium 23 Drain | 206 | 219 | 303 | 262 | 170 | 145 | 244 | 162 | 230 | 304 | 272 | 229 | 2,746 |

| Vegetation Drain Group | January | February | March | April | Мау | June | July | August | September | October | November | December | Annual |
|--|---------|----------|-------|------------|-------------|------------|----------|-------------|-----------|---------|----------|----------|--------|
| | | | | Existing I | Monthly Flo | ws minus E | T Demand | Balance (in | ch/Acre) | | | | |
| East Drains | 0.02 | 0.02 | 0.02 | 0.01 | 0.00 | (0.01) | (0.01) | (0.01) | 0.00 | 0.00 | 0.02 | 0.02 | 0.10 |
| Elmore Lake Spill to San Felipe Wash | 0.12 | 0.07 | 0.06 | 0.01 | (0.02) | (0.02) | 0.00 | 0.03 | 0.04 | 0.07 | 0.12 | 0.15 | 0.64 |
| Pumice Drain | 0.30 | 0.26 | 0.37 | 0.45 | 0.38 | 0.42 | 0.44 | 0.33 | 0.38 | 0.58 | 0.52 | 0.42 | 4.86 |
| Trifolium 22 Drain | 0.11 | 0.12 | 0.30 | 0.21 | 0.05 | 0.01 | 0.04 | 0.06 | 0.04 | 0.09 | 0.11 | 0.12 | 1.26 |
| Trifolium 23 Drain | 0.13 | 0.14 | 0.19 | 0.17 | 0.11 | 0.09 | 0.15 | 0.10 | 0.15 | 0.19 | 0.17 | 0.15 | 1.74 |

SOURCE: ESA

TABLE H2-5

PROPOSED ACTION MONTHLY EVAPOTRANSPIRATION, MEAN MONTHLY DRAIN FLOWS, AND WATER BALANCE FOR NATURAL COMMUNITIES MAPPED ALONG THE EXPOSED PLAYA IN THE SALTON SEA SURVEY AREA. ANNUAL SUMMARIES OF EACH PARAMETER ARE ALSO SHOWN.

| Vegetation Drain Group | January | February | March | April | May | June | July | August | September | October | November | December | Annual |
|---|---------|----------|-------------|-------------|------------|------------|-----------|------------|-----------|---------|----------|----------|----------|
| Monthly ET (AF) | | | | | | | | | | | | | |
| East Drains | 767 | 961 | 1,492 | 2,265 | 3,124 | 3,796 | 4,017 | 3,687 | 2,848 | 2,178 | 1,146 | 737 | 27,018 |
| Elmore Lake Spill to San Felipe Wash | 18 | 22 | 30 | 42 | 63 | 77 | 84 | 77 | 64 | 48 | 24 | 18 | 567 |
| Pumice Drain | 42 | 54 | 88 | 137 | 184 | 223 | 233 | 214 | 161 | 123 | 66 | 41 | 1,566 |
| Trifolium 22 Drain | 25 | 33 | 56 | 90 | 117 | 142 | 146 | 134 | 97 | 75 | 41 | 24 | 981 |
| Trifolium 23 Drain | 22 | 27 | 37 | 52 | 78 | 95 | 104 | 95 | 79 | 60 | 30 | 22 | 700 |
| Mean Monthly Drain Flows (AF) | | | | | | | | | | | | 1 | |
| East Drains | 1,671 | 1,774 | 2,349 | 2,508 | 2,933 | 3,087 | 3,168 | 2,928 | 2,535 | 2,087 | 1,933 | 1,683 | 28,657 |
| Elmore Lake Spill to San Felipe Wash | 154 | 95 | 93 | 44 | 24 | 41 | 76 | 100 | 106 | 130 | 162 | 195 | 1,220 |
| Pumice Drain | 831 | 753 | 1,126 | 1,419 | 1,244 | 1,427 | 1,470 | 1,095 | 1,218 | 1,820 | 1,592 | 1,235 | 15,228 |
| Trifolium 22 Drain | 205 | 233 | 617 | 473 | 171 | 128 | 192 | 214 | 145 | 221 | 224 | 226 | 3,048 |
| Trifolium 23 Drain | 194 | 215 | 305 | 281 | 213 | 206 | 313 | 222 | 275 | 329 | 269 | 216 | 3,037 |
| | | | | Propos | ed Monthly | y Flows mi | nus ET De | mand Balaı | nce (AF) | | | | |
| East Drains | 903.5 | 813.2 | 856.1 | 243.4 | (190.1) | (708.2) | (849.7) | (759.1) | (312.8) | (91.0) | 787.9 | 946.0 | 1,639.2 |
| Elmore Lake Spill to San Felipe Wash | 135.7 | 73.4 | 63.2 | 2.3 | (39.2) | (36.0) | (7.7) | 22.6 | 41.8 | 81.3 | 137.8 | 177.1 | 652.4 |
| Pumice Drain | 788.4 | 698.5 | 1,037. 4 | 1,282. 2 | 1,060.5 | 1,203.8 | 1,236.9 | 880.7 | 1,057.5 | 1,696.3 | 1,525.8 | 1,194.1 | 13,662.0 |
| Trifolium 22 Drain | 180.2 | 200.2 | 560.3 | 382.8 | 53.8 | (14.1) | 45.4 | 79.2 | 48.3 | 145.9 | 183.1 | 202.1 | 2,067.3 |
| Trifolium 23 Drain | 171.2 | 187.7 | 268.4 | 228.4 | 135.0 | 111.7 | 208.8 | 127.2 | 196.1 | 269.7 | 238.8 | 194.0 | 2,336.9 |

| Vegetation Drain Group | January | February | March | April | May | June | July | August | September | October | November | December | Annual |
|--|---------|----------|-------|-------|---------|---------|---------|---------|-----------|---------|----------|----------|--------|
| Proposed Monthly Flows minus ET Demand Balance (inches/Acre) | | | | | | | | | | | | | |
| East Drains | 0.016 | 0.014 | 0.015 | 0.004 | (0.003) | (0.012) | (0.015) | (0.013) | (0.005) | (0.002) | 0.014 | 0.017 | 0.029 |
| Elmore Lake Spill to San Felipe Wash | 0.106 | 0.057 | 0.049 | 0.002 | (0.031) | (0.028) | (0.006) | 0.018 | 0.033 | 0.063 | 0.108 | 0.138 | 0.509 |
| Pumice Drain | 0.244 | 0.216 | 0.321 | 0.397 | 0.328 | 0.373 | 0.383 | 0.273 | 0.327 | 0.525 | 0.472 | 0.370 | 4.228 |
| Trifolium 22 Drain | 0.092 | 0.102 | 0.286 | 0.195 | 0.027 | (0.007) | 0.023 | 0.040 | 0.025 | 0.074 | 0.093 | 0.103 | 1.055 |
| Trifolium 23 Drain | 0.109 | 0.119 | 0.170 | 0.145 | 0.086 | 0.071 | 0.132 | 0.081 | 0.124 | 0.171 | 0.151 | 0.123 | 1.482 |

SOURCE: ESA