City of Rancho Palos Verdes

# Master Plan of Drainage Update

Prepared for

City of Rancho Palos Verdes
30940 Hawthorne Boulevard
Rancho Palos Verdes, California 90275-5391

Prepared by

AKM Consulting Engineers
553 Wald
Irvine, California 92618

November 2004

AKM Consulting Engineers

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**Submitted to**

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# SECTION 1

# INTRODUCTION

The City of Palos Verdes is in contract with AKM Consulting Engineers (AKM) for the preparation of an update of Master Plan of Drainage that was prepared in January 1998. The purpose of this study is to:

- Perform hydrologic studies with the updated Hydrology Method as it is outlined in the June 2002 Addendum to the 1991 Hydrology/Sedimentation Manual.
- Incorporate the recommendation for Palos Verdes Drive East done by RBF Consulting into the new updated Master Plan.
- Provide and /or confirm recommendations to alleviate the problems and deficiencies that are identified.
- Prepare and/or update the cost estimates for the recommended facilities.
- Prioritize the recommended facilities.
- Incorporate the facilities that were constructed since the last master plan into the facilities map and GIS.

## General

The City of Rancho Palos Verdes comprises of approximately 14 square miles. It is located on the Palos Verdes Peninsula in southwest portion of the Los Angeles County.

The City generally consists of hilly terrain where steep canyons and hillsides remain undeveloped. As the canyons proceed through the watershed, they create a number of roadway crossings where culverts were constructed. Material of culverts is generally corrugated metal pipe with the exception of newer facilities where reinforced concrete pipes or boxes are used.

Utilization of these short culverts creates various problems such as ponding water at upstream end, debris collection, and therefore, blockage of the facilities. At the downstream end, there are locations where severe erosion is caused by the flows.

Most of the drainage facilities were constructed by the Los Angeles County Department of Public Works prior to incorporation of the City. There are still a number of facilities owned and maintained by the LACDPW. Although this report analyzes all existing facilities, the cost estimates along with the recommendation for the County facilities are not included in either the prioritization list or cost estimate tables.

## Study Approach

All necessary hydrologic and hydraulic calculations were performed in accordance with Los Angeles County Department of Public Works methodology. The information that was gathered for the prior Master Plan, along with the recent drainage study for the Palos Verdes Drive East by RBF Consultants, were reviewed in detail. As-built plans, along with the future development plans, were obtained from the City. A number of times field trips were arranged to verify, determine, and inspect the field conditions.

Hydrology models that were utilized for the 1998 Master Plan were used. They were revised as necessary to reflect the current conditions. Preliminary hydraulic calculations were performed for the preliminary sizing of the facilities.

Since the last Master Plan, the Los Angeles County Department of Public Works has modified the rainfall data. These revisions were incorporated into the new models.

## SECTION 2

## BACKGROUND

The City completed the most recent Master Plan of Drainage in 1998. This report was prepared by AKM and had recommended various improvements. The preliminary cost estimates to the proposed improvements were $7,412,000.

Since the completion of the Master Plan in 1998, the City has contracted with RBF Consulting to prepare a detailed drainage study for the Palos Verdes Drive East between the northern City limits to Ganado Drive in south. This study was performed to update hydrology and develop preliminary plans for the subject area. The recommendations of this study concluded that there is a need for additional storm drain facilities in Palos Verdes Drive East area which is estimated to cost approximately $8,000,000.

Although RBF study peak flow rates were similar to those of the 1998 Master Plan, the recommendations in this study include numerous storm drain systems in Palos Verdes Drive East instead of previous transverse crossings of the street. Because of that, the estimated costs have been increased. The cost estimating methodology otherwise remains the same as it was in the Master Plan dated 1998.

There have also been some modifications and/or additions to the existing storm drain systems in the City. These are mostly related to the recommendations in the Master Plan and in the RBF Study that were designed and constructed. There have also been various private developments that took place between the last Master Plan and the present Master Plan. These include various storm drains in Ocean Trails Golf Course, Ocean Front Estates and Long Point Destination.

With this Master Plan Update, all the facilities that were recently completed were taken off the recommended facilities list and shown as existing facilities in the storm facility maps.

## SECTION 3

## STUDY AREA

The City of Rancho Palos Verdes is located southwest of Los Angeles County. It is surrounded by the Cities of Los Angeles to the west, the Cities of Palos Verdes Estates, Rolling Hills Estates and Rolling Hills to the north, and the City of Palos Verdes Estates and the Pacific Ocean to the east and Pacific Ocean to the south.

The City is comprised of hilly terrain with elevations between sea level and 1400 above sea level. The land use information was obtained from the most recent zoning maps that was provided by the City. The majority of the zoning consists of single family dwelling units with limited areas of commercial/industrial zones.

The only significant area that has not been developed lies within the Portuguese Bend Landslide Area north of Palos Drive South. Since the 1998 Master Plan, Ocean Trails have been substantially developed.

There are a total six (6) drainage sub-basins within the City. These are illustrated in the Figure 2. They are named with the areas they are draining into. They are as follows:

| Name of the Drainage Area | Total Area (ac) |
|---|---|
| Los Angeles Drainage Area | 2820 |
| Ocean South Drainage Area | 3330 |
| Ocean West Drainage Area | 710 |
| Palos Verdes Estates West Drainage Area | 1100 |
| Palos Verdes Estates North Drainage Area | 450 |
| Rolling Hills Estates Drainage Area | 500 |

### Los Angeles Drainage Area

This basin is located eastern portion of the City and is the oldest portion of the City. There are a number of natural canyons and various storm drain facilities that are owned and maintained by the LACDPW in the basin. Some of the canyons are as follows; George F. Canyon, Miraleste Canyon, San Pedro Canyon, Averill Canyon and Tarapaca Canyon.

Because of the drainage patterns and age of some of the improvements, this basin has more drainage deficiencies that were identified in 1998 Master Plan and later on RBF Consultants report. This area has been extensively studied by the RBF report where preliminary design level plans have been developed. There is a total of twenty-eight (28) short crossings in Palos Verdes Drive East. All of these are addressed in the previously mentioned report. This master plan update therefore did not address any facilities that were studied with the previous report.

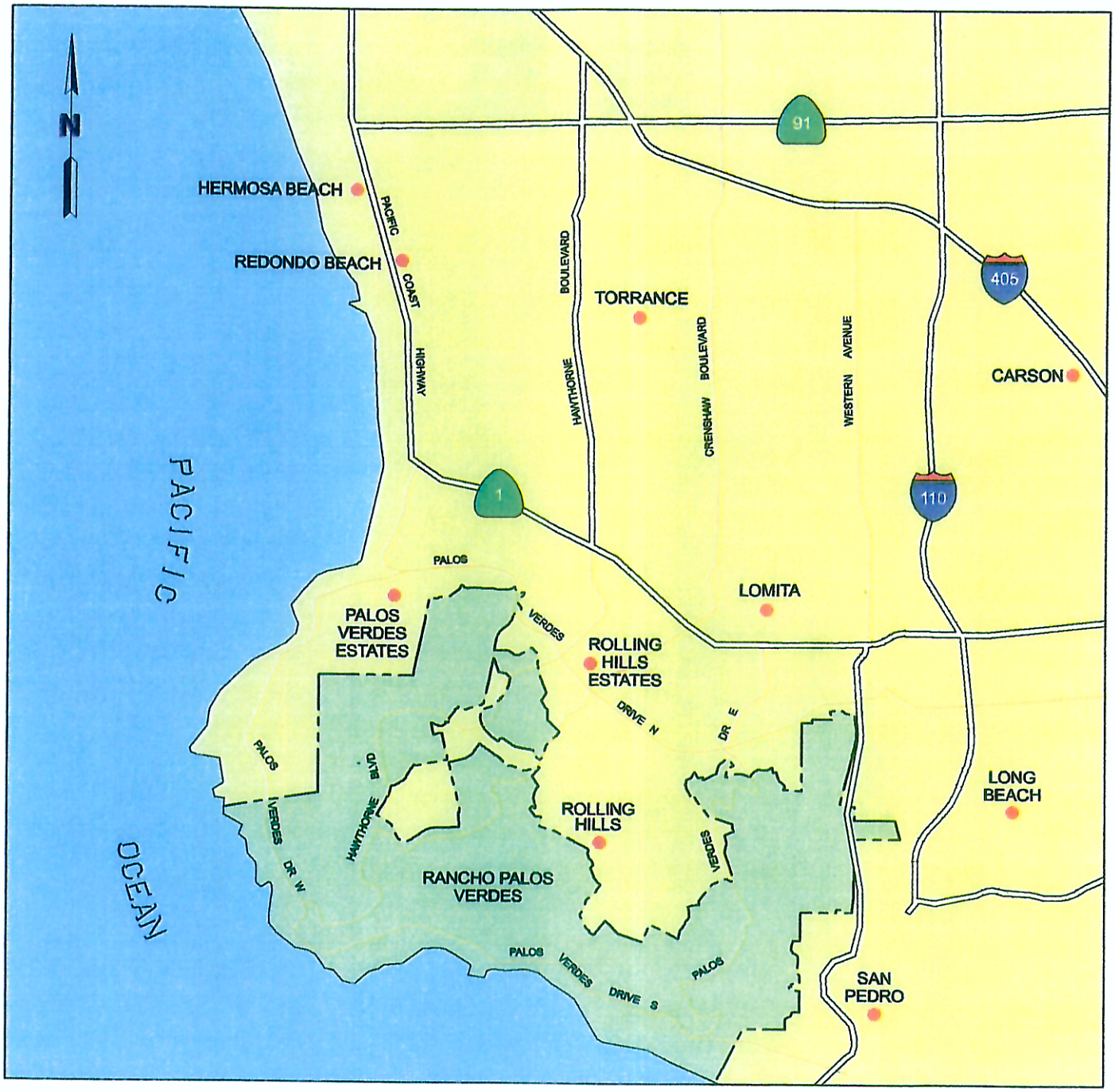



FIGURE No. 1

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RANCHO PALOS VERDES MASTER PLANS OF DRAINAGE

# VICINITY MAP

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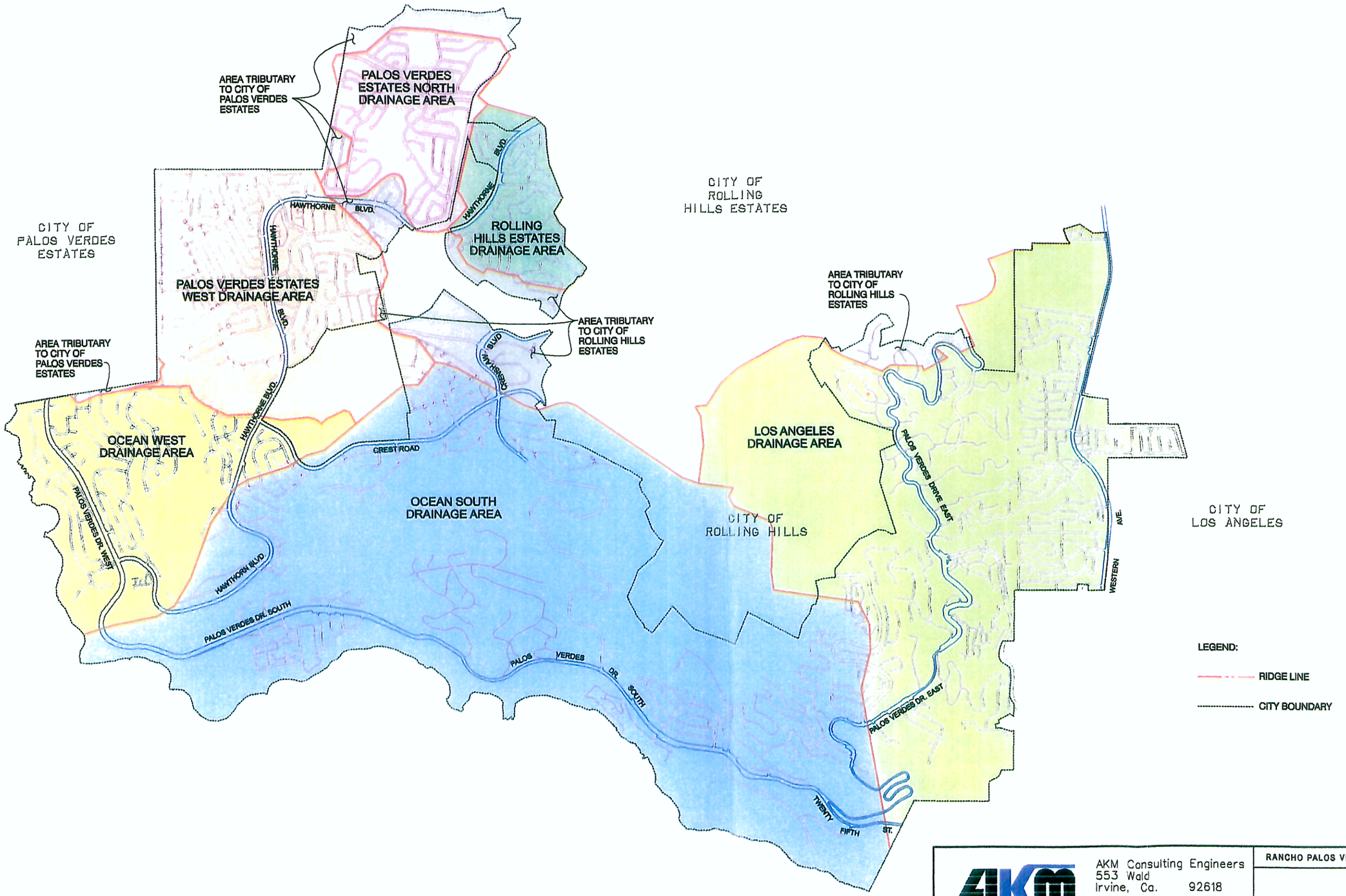



FIGURE No. 2

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RANCHO PALOS VERDES MASTER PLANS OF DRAINAGE

## DRAINAGE BASIN MAP

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## Ocean South Drainage Area

This basin covers the most area among the other drainage areas. This area includes Portuguese Bend Slide Area, Ocean Trails Area and substantial undeveloped hilly areas.

Palos Verdes Drive South traverse this drainage area, therefore requiring a number of shor crossings as it is for the Palos Verdes Drive East. There are a total of thirty-four (34) crossings. These crossings are either corrugated metal pipe (CMP) or reinforced concrete pipe (RCP). Although some of them may have hydraulic capacities to convey the flows their physical conditions are deteriorated. Concurrent with this update, the City is in the process of developing a system of relining the hydraulically sufficient but structurally deficient pipes.

## Ocean West Drainage Area

Ocean West drainage generally consists of single family dwelling units and fairly large oper spaces. It is comprised of approximately 700 acres. This drainage area also includes Los Verdes Golf Course which some of the larger Los Angeles County drainage facilities originate and portions of Point Vicente Park.

## Palos Verdes West Drainage Area

As the designation indicates, this area drains to the City of Palos Verdes Estates in a westerly direction. As in other drainage areas, there are number of LACDPW facilities. The drainage area generally consists of single family dwelling units, with some multi family units along Hawthorne Boulevard. Aqua Amarga Canyon is the major drainage course in the drainage area. It crosses Hawthorne Boulevard and leaves the City boundary and outlets to Lunada Bay.

## Palos Verdes North Drainage Area

This drainage consists of approximately 450 acres. It drains northerly to the City of Palos Verdes Estates. This area contains the minimal number owned LACDPW facilities. Most of the drainage area drains to Palos Verdes Golf Club. It generally consists of single family units.

## Rolling Hills Drainage Area

This area is comprised of approximately 500 acres. It drains northerly to the City of Rolling Hills Estates. There are various County owned facilities in this area. The land use is predominantly single family residential.

# SECTION 4

# HYDROLOGY

## General

Hydrology studies were conducted in accordance with the methodology defined in the Los Angeles County Hydrology and Sedimentation Manual dated 1991 and an addendum dated June 2002. All hydrology calculations were performed for ultimate development conditions in accordance with the City's General Plan.

## Flood Frequency

With this update, the same protection levels as identified previously with the Master Plan of Drainage were utilized. The Capital Flood (50-year storm frequency) was utilized when tributary to natural water courses, major and secondary highway crossings, natural depressions and sumps, and the areas identified as floodways in FEMA maps.

All remaining facilities were analyzed for 10-year storm frequency. In accordance with LACDPW requirements, the 25-year storm shall be conveyed safely with a combination of roadway and underground storm drain system. The storm drain system shall be designed with minimum of 10-year storm frequency.

## Rainfall-Runoff Characteristics

Rainfall and runoff relation can be summarized with three factors; these are rainfall, imperviousness and soil types. With the exception of the rainfall zone, with this update impervious factors and soil types are as same as the previous Master Plan.

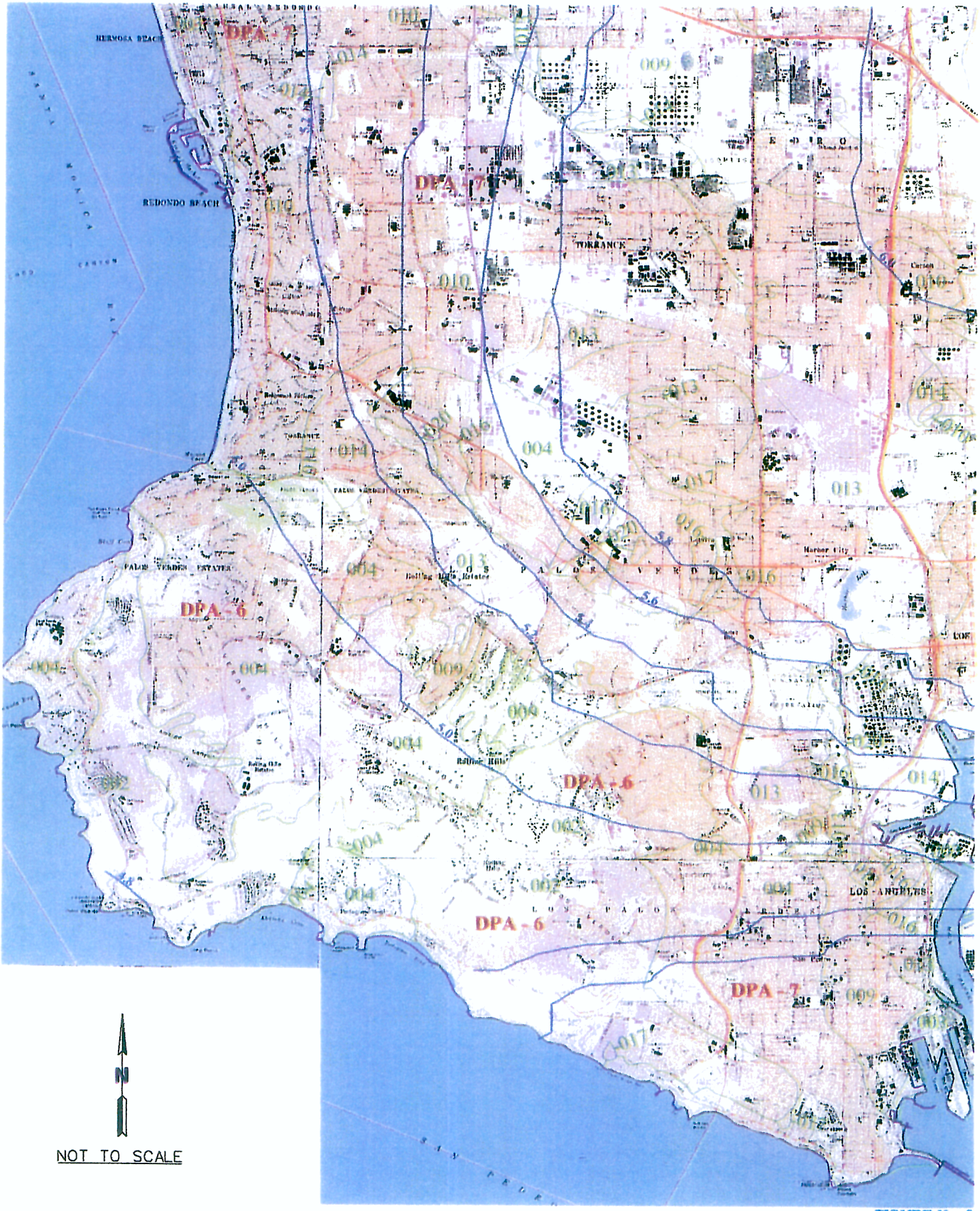
Since the last Master Plan, the Los Angeles County Department of Public Works has issued an addendum to its hydrology manual that has significant effects on the magnitude of peak flow rates.

The original hydrology was based on the Hydrology/Sedimentation Manual dated 1991. Then the subject area was located in what was previously defined as K Zone where 8-inch rainfall during a 24-hour period for 50-year storm frequency was expected. In early 1940, the Los Angeles County Flood Control District conducted a study using 20 recording rainfall gauges. This study served as the basis of the rainfall zones (I, J, K, L, and M), and design storms (10, 25 and 50 year). These zones correspond to desert plain, desert foothill, coastal plain, interior valley, coastal foothill and upper mountain regions, respectively. Since the development of these zones, Los Angeles County has increased the number of recording rainfall stations to approximately 270. This extensive network of recording gauges, therefore, resulted in better definition of rainfall zones. Using the results of this new information, rainfall isohyetal maps were developed. The isohyetal method, therefore, more precisely defines the average rainfall over the watershed and subareas. Utilization of

isohyetal maps results in lower rainfall data for the project site. The recommended rainfall over the project site ranges between 4.8 to 5.4 inches per 24-hour period for 50-year storm frequency. Then these values are adjusted for 10-year and 25-year frequency storms by multiplying the rainfall amounts with 0.878 and 0.714, respectively (see Figure 3).

## Burning and Bulking

Fires drastically change the hydrologic characteristics of watershed by removing the vegetation and changing the soil characteristics therefore reducing the infiltration rates. With this update, the same burning and bulking factors were utilized.




NOT TO SCALE

FIGURE No. 3

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RANCHO PALOS VERDES MASTER PLANS OF DRAINAGE

# LACDPW
# 50-YEAR 24-HOUR ISOHYET

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# SECTION 5

# HYDRAULIC ANALYSIS

## General

The hydraulic analysis of the existing systems (shown on Figure 4) was performed once the peak flow rates were developed for the facilities. Hydraulic analysis of the existing facilities was analyzed by using the Manning's equation. When applicable, culverts were analyzed by Bureau of Public Roads Nomagraphs.

## Deficiencies

Once the hydraulic analysis of the existing systems was performed with the newly developed flow rates, determination of deficiencies was performed. The criteria for the deficiencies that were established in 1998 Master Plan is applicable and was used for this update. The previous criterion was such that any existing pipe size that was within the three (3) inches of the required size is not considered deficient. For the culverts, the water depth was allowed to pond within six (6) inches of the roadway shoulder as long as existing structures were not impacted by the ponding.

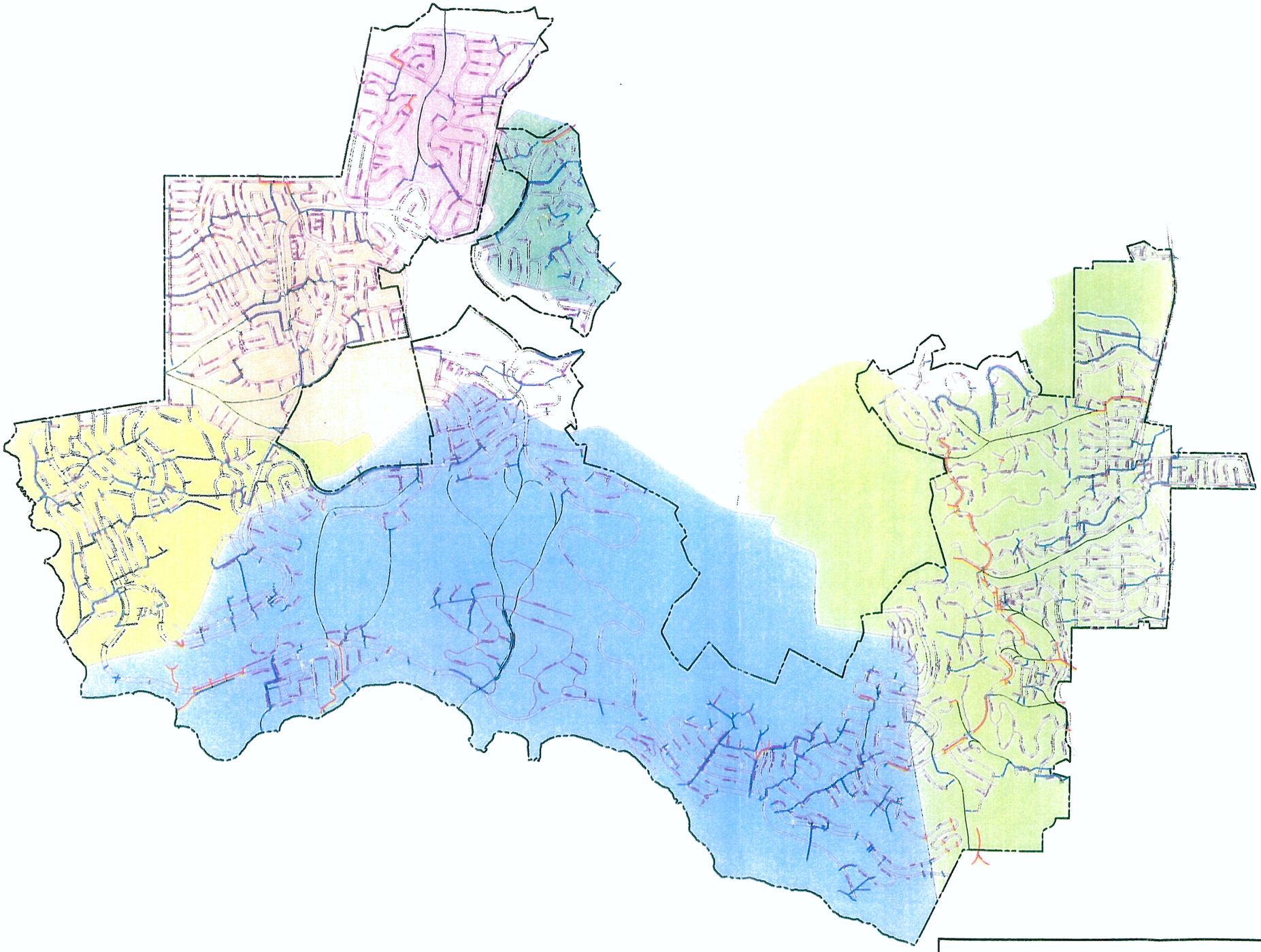



FIGURE No. 4

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RANCHO PALOS VERDES MASTER PLANS OF DRAINAGE

# OVERALL FACILITIES MAP

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## SECTION 6

## PROPOSED IMPROVEMENTS

### General

Once all the deficiencies were identified, recommended facilities were developed. Along with all existing facilities, the proposed facilities are shown on the Plates 1 through 4 at the back of this report.

As this is an update to the 1998 Master Plan, the proposed facilities are should considered preliminary. The detail hydrology calculations should be performed as each proposed facility is designed.

The recommended facilities are shown on following tables along with the updated cost estimates and prioritization. The cost estimates were updated to reflect the bidding environment in the Peninsula and raising unit prices in general.

The priorities were broken into three categories. Priority 1 is most severe. There are a total thirteen (13) projects that are on the list. Most of Priority 1 facilities are located in the Los Angeles Drainage Area. Priority 2 projects cover wide area. There are twenty-four (24) Priority 2 projects. This list contains facilities that should be addressed but they are not as urgent as Priority 1 projects.

There are a total of twenty-three (23) Priority 3 projects. These are can be classified as minor deficiencies and do not require immediate attention.

There are two (2) Priority 4 projects which can be postponed almost indefinitely as these will not cause personal or property damages.

**TABLE 1**
**PROPOSED DRAINAGE IMPROVEMENTS**
**FOR THE CITY OF RANCHO PALOS VERDES**

| | |
|---|---|
| Los Angeles Drainage Area | $8,627,200 |
| Ocean South Drainage Area | $7,468,650 |
| Ocean West Drainage Area | $150,000 |
| Palos Verdes Estates West Drainage Area | $522,000 |
| Palos Verdes Estates North Drainage Area | $367,500 |
| Rolling Hills Estates Drainage Area | $490,900 |
| Total | $17,626,250 |
| Contingency (10%) | $1,762,625 |
| Admin./Engineering/Legal (25%) | $4,406,563 |
| **Grand Total** | **$23,795,438** |

TABLE 2
PRELIMINARY COST ESTIMATES FOR THE PROPOSED IMPROVEMENTS
LOS ANGELES DRAINAGE AREA

| System Number | Description | EXISTING SIZE & MATERIAL | REQUIRED SIZE & MATERIAL | LENGTH (L.F.) | Priority | Estimated Cost |
|---|---|---|---|---|---|---|
| Main 0 | Sunnyside | 15"-24" CMP | 18"-42" RCP | 3186 | 1 | $905,615 |
| Main 1 | Roan | 18" CMP | 18"-30" RCP | 636 | 1 | $208,318 |
| Main1a | South Coach | 27" CMP | 30" RCP | 41 | 2 | $34,468 |
| Main 2 | Rocking Horse | 18" CMP | 24"-66" RCP | 651 | 1 | $199,606 |
| Main 3 | Clevis | 30" CMP | 24"-36" RCP | 1416 | 2 | $438,645 |
| Main 4 | North Colt | 18" CMP | 42" RCP | 165 | 2 | $74,360 |
| Main 5 | South Colt | 18" CMP | 18"-30"RCP | 770 | 2 | $185,815 |
| Main 6 | Via Canada | 54" CMP | 30"-60" RCP | 3209 | 1 | $862,980 |
| Main 7 | South Via Canada | 18" CMP | 24"RCP | 294 | 1 | $112,438 |
| Main 8 | Miraleste | 18" CMP | 18"RCP | 370 | 2 | $69,402 |
| Main 9 | South Miraleste | 48" CMP | 36"-60" RCP | 981 | 2 | $362,191 |
| Main 10 | North Corsine | 48" CMP | 18"-48" RCP | 1125 | 2 | $371,076 |
| Main 13 | Via Colinita | 18" CMP | 18"-54" RCP | 1550 | 2 | $508,604 |
| Main 14 | La Vista | 42" CMP | 24"-42" RCP | 1605 | 2 | $507,701 |
| Main 15 | Vista Mesa | 36" CMP | 24"-36" RCP | 776 | 2 | $221,306 |
| Main 16 | Narino | 18" CMP | 18"-30" RCP | 810 | 2 | $220,675 |
| - | Frascati C&G | | | 2000 | 1 | $109,000 |
| 1-5 | Rocking Horse | 24" CMP | 42" RCP | 120 | 2 | $120,000 |
| 2-6 | Via Colinita | 36" CMP | 60"RCP | 100 | 1 | $42,000 |
| 2-8 | Via Colinita | 24"CMP | 48"RCP | 150 | 1 | $225,000 |
| 2-14 | PV Drive East | 18" CMP | 54"RCP | 80 | 2 | $80,000 |
| 2-15 | PV Drive East | 18" CMP | 7'Wx3.5'H RCB | 90 | 2 | $135,000 |
| 2-16 | PV Drive East | 18" CMP | 30"RCP | 120 | 2 | $120,000 |
| 2-17 | PV Drive East | 18" CMP | 36"RCP | 110 | 3 | $110,000 |
| 2-18 | PV Drive East | 18" CMP | 36"RCP | 70 | 3 | $70,000 |
| 2-19 | PV Drive East | 18" CMP | 42"RCP | 90 | 3 | $90,000 |
| 2-34 | Via Colinita | | 24"RCP | 100 | 1 | $30,000 |
| 2-35 | Corsini Place | | 12"PVC | 150 | 3 | $22,500 |
| 2-9 | Via Colinita & Miraleste | 48" RCP | Natural Channel | 1250 | 1 | $125,000 |
| 2-10 | Miraleste&Chandeleur | 36" CMP | 72"RCP | 500 | 1 | $350,000 |
| 2-11 | Ninth Street | 30" CMP | 30"RCP | 300 | 3 | $73,500 |
| 2-12 | Deluna Drive | 18" CMP | 24"RCP | 200 | 3 | $42,000 |
| Tarapaca Canyon | | | | | 1 | $1,600,000 |
| **TOTAL** | | | | | | **$8,627,200** |

**TABLE 3**
**PRELIMINARY COST ESTIMATES FOR THE PROPOSED IMPROVEMENTS**
**OCEAN SOUTH DRAINAGE AREA**

| System Number | Description | EXISTING SIZE & MATERIAL | REQUIRED SIZE & MATERIAL | LENGTH (L.F.) | Priority | Estimated Cost |
|---|---|---|---|---|---|---|
| 2-32 | Forestal Drive | 36" RCP | 42"RCP | 400 | 3 | $200,000 |
| 2-36 | Walking Path | | 18"RCP | 100 | 4 | $25,000 |
| Alta Mira Canyon | | | | | 1 | $1,250,000 |
| 3-3 | Vanderlip Road | 42" CMP | 42"RCP | 50 | 3 | $25,000 |
| 3-4 | Narcissa Drive | 42" CMP | 54"RCP | 80 | 3 | $52,000 |
| 3-5 | Sweetbay Road | 54" CMP | 54"RCP | 50 | 3 | $32,500 |
| 3-6 | Narcissa Drive | 42" CMP | 48"RCP | 80 | 3 | $44,000 |
| 3-8 | PV Drive South | 24" RCP | 60"RCP | 210 | 1 | $315,000 |
| 3-10 | Sattes Drive | 18" CMP | 30"RCP | 250 | 4 | $61,250 |
| 3-11 | PV Drive South | 48" CMP /24" RCP | 48"-51"RCP | 2350 | 1 | $3,214,250 |
| 3-13 | PV Drive South | 30" CMP | 2(4'Hx4'W) RCB | 200 | 2 | see 3-17 |
| 3-14 | PV Drive South | 18" CMP | 36"RCP | 200 | 2 | see 3-17 |
| 3-15 | PV Drive South | 36" CMP | 48"RCP | 200 | 2 | see 3-17 |
| 3-16 | PV Drive South | 24" RCP | 48"RCP | 160 | 2 | see 3-17 |
| 3-17 | PV Drive South | 18" CMP | 54"RCP | 200 | 2 | $817,650 |
| 3-18 | Hawthorne Blvd. | 18" RCP | 30"RCP | 370 | 1 | $370,000 |
| 3-19 | Hawthorne Blvd. | 18" RCP | 24"RCP | 200 | 1 | $200,000 |
| 3-24 | PV Drive South | | 24"-36"RCP/Drilled | 1200 | 3 | $862,000 |
| **TOTAL** | | | | | | **$7,468,650** |

TABLE 4
PRELIMINARY COST ESTIMATES FOR THE PROPOSED IMPROVEMENTS
OCEAN WEST, PVE WEST, PVE NORTH AND ROLLING HILLS ESTATES DRAINAGE AREA

| System Number | | Description | EXISTING SIZE & MATERIAL | REQUIRED SIZE & MATERIAL | LENGTH (L.F.) | Priority | Estimated Cost |
|---|---|---|---|---|---|---|---|
| 3-25 | Ocean West | | | Misc Riprap | 600 | 3 | $150,000 |
| 4-1 | Rolling Hills | Middlecrest Road | 48" CMP | 66"RCP | 80 | 2 | $99,400 |
| 4-3 | PVE West | Granvia Alta Mira | 30"-48" CMP | 42"-48"RCP | 1350 | 3 | $522,000 |
| 4-4 | PVE North | Grayslake | 18"-24" CMP | 24"RCP | 525 | 3 | $157,500 |
| 4-5 | PVE North | Montemalaga | 30" CMP | 36"RCP | 750 | 3 | $210,000 |
| 4-7 | Rolling Hills | Hawthorne Blvd. | 30" RCP | 42"RCP | 900 | 3 | $391,500 |
| **TOTAL** | | | | | | | **$1,530,400** |

| | |
|---|---|
| Ocean West Drainage Area | $150,000 |
| Palos Verdes Estates West Drainage Area | $522,000 |
| Palos Verdes Estates North Drainage Area | $367,500 |
| Rolling Hills Estates Drainage Area | $490,900 |
| **TOTAL** | **$1,530,400** |

# APPENDIX A

## HYDROLOGY CALCULATIONS

# HYDROLOGY CALCULATIONS

## LOS ANGELES
## DRAINAGE AREA

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT



MODIFIED RATIONAL METHOD HYDROLOGY

ROLLING HILLS ESTATES (RHE2.DAT)

STORM DAY 4

| LOCATION | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 2530A | 33. | 49. | 33. | 49. | 4 | 300. | 0.00700 | 3.00 | 0.00 | 0. | 4 | 14 | A25 | 0.44 |
| 9 2531A | 7. | 18. | 40. | 63. | 4 | 340. | 0.27000 | 2.00 | 0.00 | 0. | 4 | 5 | A25 | 0.42 |
| 9 2532A | 1. | 4. | 41. | 66. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 191 | 5 | A35 | 0.00 |
| 9 2533B | 6. | 15. | 6. | 15. | 4 | 200. | 0.32500 | 2.00 | 0.00 | 0. | 4 | 10 | A35 | 0.42 |
| 9 2534AB | 6. | 15. | 47. | 81. | 1 | 300. | 0.20000 | 0.00 | 0.00 | 0. | 191 | 0 | A35 | 0.00 |
| 9 2535C | 3. | 10. | 3. | 10. | 4 | 300. | 0.30000 | 2.00 | 0.00 | 0. | 4 | 6 | A35 | 0.42 |
| 9 2536A | 2. | 8. | 49. | 86. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 191 | 5 | A35 | 0.21 |
| 9 2537AC | 3. | 10. | 52. | 95. | 2 | 200. | 0.07500 | 0.00 | 0.00 | 0. | 191 | 0 | A35 | 0.00 |
| 9 2538A | 17. | 58. | 69. | 151. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 191 | 6 | A35 | 0.22 |
| 9 2539A | 0. | 0. | 69. | 151. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A35 | 0.00 |
| 9 2540D | 5. | 14. | 5. | 14. | 4 | 680. | 0.12000 | 2.00 | 0.00 | 0. | 4 | 9 | A35 | 0.50 |
| 9 2541D | 11. | 36. | 16. | 50. | 4 | 50. | 0.14000 | 2.00 | 0.00 | 0. | 4 | 6 | A35 | 0.43 |
| 9 2542E | 5. | 14. | 5. | 14. | 3 | 1000. | 0.07000 | 0.00 | 0.00 | 0. | 4 | 8 | A35 | 0.50 |
| 9 2543E | 5. | 18. | 10. | 27. | 4 | 50. | 0.08000 | 2.00 | 0.00 | 0. | 4 | 5 | A35 | 0.42 |
| 9 2544DE | 10. | 27. | 26. | 77. | 4 | 350. | 0.16000 | 2.00 | 0.00 | 0. | 4 | 0 | A35 | 0.00 |
| 9 2545D | 11. | 25. | 37. | 102. | 1 | 1000. | 0.15000 | 0.00 | 0.00 | 0. | 4 | 12 | A35 | 0.42 |
| 9 2546AD | 37. | 97. | 106. | 238. | 1 | 220. | 0.14000 | 0.00 | 0.00 | 0. | 191 | 0 | A35 | 0.00 |
| 9 2547B | 12. | 23. | 12. | 23. | 4 | 500. | 0.22000 | 2.00 | 0.00 | 0. | 4 | 8 | A25 | 0.42 |
| 9 2548C | 16. | 58. | 16. | 58. | 4 | 70. | 0.04000 | 2.25 | 0.00 | 0. | 4 | 5 | A35 | 0.42 |
| 9 2549D | 32. | 51. | 32. | 51. | 4 | 30. | 0.10000 | 2.00 | 0.00 | 0. | 4 | 12 | A25 | 0.42 |

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT PROG F0601A

MODIFIED RATIONAL METHOD HYDROLOGY

ROLLING HILLS ESTATES (RHE3.DAT) STORM DAY 4

| LOCATION | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 2550A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A35 | 0.00 |
| 9 2551A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A35 | 0.00 |
| 9 2552A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A35 | 0.00 |
| 9 2553A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A35 | 0.00 |
| 9 2554A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A35 | 0.00 |
| 9 2555A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A35 | 0.00 |
| 9 2556A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A35 | 0.00 |
| 9 2557A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A35 | 0.00 |
| 9 2558A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A35 | 0.00 |
| 9 2559A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A35 | 0.00 |
| 9 2560A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A35 | 0.00 |
| 9 2561A | 9. | 19. | 9. | 19. | 3 | 900. | 0.02000 | 0.00 | 0.00 | 0. | 4 | 7 | A25 | 0.42 |
| 9 2562A | 17. | 38. | 26. | 53. | 4 | 1220. | 0.10000 | 2.00 | 0.00 | 0. | 4 | 13 | A35 | 0.42 |
| 9 2563A | 16. | 28. | 42. | 78. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 10 | A25 | 0.42 |
| 9 2564B | 22. | 62. | 22. | 62. | 4 | 320. | 0.03000 | 2.50 | 0.00 | 0. | 4 | 5 | A25 | 0.80 |
| 9 2565AB | 22. | 59. | 64. | 132. | 4 | 550. | 0.06000 | 2.75 | 0.00 | 0. | 4 | 0 | A35 | 0.00 |
| 9 2566A | 0. | 0. | 64. | 130. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A35 | 0.00 |
| 9 2567A | 0. | 0. | 64. | 130. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A35 | 0.00 |
| 9 2568A | 0. | 0. | 64. | 130. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A35 | 0.00 |
| 9 2569C | 8. | 13. | 8. | 13. | 4 | 700. | 0.26000 | 2.00 | 0.00 | 0. | 4 | 12 | A25 | 0.42 |
| 9 2570AC | 8. | 13. | 72. | 142. | 4 | 580. | 0.04000 | 3.00 | 0.00 | 0. | 4 | 0 | A35 | 0.00 |
| 9 2571A | 30. | 67. | 102. | 207. | 1 | 600. | 0.12000 | 0.00 | 0.00 | 0. | 4 | 12 | A35 | 0.30 |
| 9 2572D | 16. | 42. | 16. | 42. | 3 | 1400. | 0.04000 | 0.00 | 0.00 | 0. | 4 | 12 | A35 | 0.80 |
| 9 2573AD | 16. | 40. | 118. | 242. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 0 | A35 | 0.00 |
| 9 2574A | 23. | 81. | 141. | 285. | 4 | 120. | 0.02000 | 4.50 | 0.00 | 0. | 4 | 5 | A35 | 0.30 |

RANCHO PALOS VERDES, LOS ANGELES 1 (LA1-51.DAT) STORM DAY 2

| LOCATION | | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | 400A | 28. | 29. | 28. | 29. | 3 | 2570. | 0.08000 | 0.00 | 0.00 | 0. | 2 | 9 | A35 | 0.21 |
| 9 | 401A | 38. | 28. | 66. | 46. | 1 | 350. | 0.18000 | 0.00 | 0.00 | 0. | 2 | 9 | A25 | 0.36 |
| 9 | 402A | 6. | 9. | 72. | 48. | 4 | 950. | 0.20000 | 2.25 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 | 403A | 1. | 0. | 73. | 48. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 | 404A | 1. | 0. | 74. | 49. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 | 405A | 1. | 0. | 75. | 49. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 | 406A | 1. | 0. | 76. | 49. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 | 407A | 8. | 10. | 84. | 57. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 7 | A35 | 0.00 |
| 9 | 408B | 9. | 10. | 9. | 10. | 4 | 320. | 0.22400 | 2.00 | 0.00 | 0. | 2 | 8 | A35 | 0.30 |
| 9 | 409AB | 9. | 10. | 93. | 67. | 1 | 1100. | 0.09000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 | 410A | 15. | 18. | 108. | 73. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 7 | A35 | 0.00 |
| 9 | 411B | 21. | 18. | 21. | 18. | 4 | 340. | 0.44000 | 2.00 | 0.00 | 0. | 2 | 13 | A35 | 0.30 |
| 9 | 412AB | 21. | 18. | 129. | 90. | 1 | 1180. | 0.12800 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 | 413A | 19. | 20. | 148. | 99. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 9 | A35 | 0.00 |
| 9 | 414C | 19. | 17. | 19. | 17. | 1 | 200. | 0.13000 | 0.00 | 0.00 | 0. | 190 | 12 | A35 | 0.00 |
| 9 | 415C | 1. | 1. | 20. | 19. | 1 | 750. | 0.18000 | 0.00 | 0.00 | 0. | 190 | 5 | A35 | 0.00 |
| 9 | 416AC | 20. | 18. | 168. | 117. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 | 417D | 34. | 37. | 34. | 37. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 9 | A35 | 0.15 |

RANCHO PALOS VERDES, LOS ANGELES 1 (LA1-51.DAT) STORM DAY 1

| LOCATION | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 400A | 28. | 5. | 28. | 5. | 3 | 2570. | 0.08000 | 0.00 | 0.00 | 0. | 2 | 9 | A35 | 0.21 |
| 9 401A | 38. | 5. | 66. | 6. | 1 | 350. | 0.18000 | 0.00 | 0.00 | 0. | 2 | 9 | A25 | 0.36 |
| 9 402A | 6. | 2. | 72. | 7. | 4 | 950. | 0.20000 | 2.25 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 403A | 1. | 0. | 73. | 7. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 404A | 1. | 0. | 74. | 7. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 405A | 1. | 0. | 75. | 7. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 406A | 1. | 0. | 76. | 7. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 407A | 8. | 2. | 84. | 8. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 7 | A35 | 0.00 |
| 9 408B | 9. | 2. | 9. | 2. | 4 | 320. | 0.22400 | 2.00 | 0.00 | 0. | 2 | 8 | A35 | 0.30 |
| 9 409AB | 9. | 2. | 93. | 10. | 1 | 1100. | 0.09000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 410A | 15. | 3. | 108. | 9. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 7 | A35 | 0.00 |
| 9 411B | 21. | 3. | 21. | 3. | 4 | 340. | 0.44000 | 2.00 | 0.00 | 0. | 2 | 13 | A35 | 0.30 |
| 9 412AB | 21. | 3. | 129. | 11. | 1 | 1180. | 0.12800 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 413A | 19. | 4. | 148. | 11. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 9 | A35 | 0.00 |
| 9 414C | 19. | 3. | 19. | 3. | 1 | 200. | 0.13000 | 0.00 | 0.00 | 0. | 190 | 12 | A35 | 0.00 |
| 9 415C | 1. | 0. | 20. | 3. | 1 | 750. | 0.18000 | 0.00 | 0.00 | 0. | 190 | 5 | A35 | 0.00 |
| 9 416AC | 20. | 3. | 168. | 14. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 417D | 34. | 7. | 34. | 7. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 9 | A35 | 0.15 |

RANCHO PALOS VERDES, LOS ANGELES 2 (LA2-51.DAT) STORM DAY 4

| LOCATION | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 418A | 10. | 39. | 10. | 39. | 1 | 1150. | 0.11500 | 0.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 419A | 19. | 62. | 29. | 89. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 7 | A35 | 0.30 |
| 9 420B | 10. | 23. | 10. | 23. | 4 | 110. | 0.29000 | 2.00 | 0.00 | 0. | 2 | 7 | A25 | 0.30 |
| 9 421AB | 10. | 23. | 39. | 112. | 4 | 130. | 0.15000 | 2.25 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 422C | 4. | 9. | 4. | 9. | 4 | 310. | 0.19000 | 2.00 | 0.00 | 0. | 2 | 7 | A25 | 0.30 |
| 9 423AC | 4. | 9. | 43. | 120. | 1 | 1370. | 0.10000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 424A | 0. | 0. | 43. | 111. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 425A | 0. | 0. | 43. | 111. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 426A | 0. | 0. | 43. | 111. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 427A | 12. | 37. | 55. | 139. | 4 | 50. | 0.08000 | 2.75 | 0.00 | 0. | 190 | 8 | A35 | 0.00 |
| 9 428D | 14. | 46. | 14. | 46. | 4 | 350. | 0.19000 | 2.00 | 0.00 | 0. | 2 | 7 | A35 | 0.30 |
| 9 429AD | 14. | 46. | 69. | 176. | 4 | 1020. | 0.08000 | 3.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 430A | 14. | 46. | 83. | 208. | 4 | 350. | 0.14000 | 2.75 | 0.00 | 0. | 2 | 7 | A35 | 0.30 |
| 9 431A | 0. | 0. | 83. | 207. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 432E | 33. | 68. | 33. | 68. | 1 | 210. | 0.15500 | 0.00 | 0.00 | 0. | 190 | 9 | A25 | 0.15 |
| 9 433E | 0. | 0. | 33. | 68. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT



MODIFIED RATIONAL METHOD HYDROLOGY

RANCHO PALOS VERDES, LOS ANGELES 3 (LA3-S1.DAT) STORM DAY 4

| LOCATION | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 434A | 17. | 67. | 17. | 67. | 1 | 1170. | 0.16500 | 0.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 435A | 20. | 61. | 37. | 116. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 8 | A35 | 0.26 |
| 9 436B | 14. | 37. | 14. | 37. | 1 | 650. | 0.15500 | 0.00 | 0.00 | 0. | 2 | 11 | A35 | 0.30 |
| 9 437B | 2. | 7. | 16. | 42. | 4 | 200. | 0.38000 | 2.00 | 0.00 | 0. | 2 | 7 | A35 | 0.42 |
| 9 438AB | 16. | 42. | 53. | 157. | 1 | 900. | 0.10000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 439A | 0. | 0. | 53. | 153. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 440A | 0. | 0. | 53. | 153. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 441A | 0. | 0. | 53. | 153. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 442C | 7. | 23. | 7. | 23. | 1 | 600. | 0.15000 | 0.00 | 0.00 | 0. | 4 | 6 | A35 | 0.42 |
| 9 443A | 13. | 38. | 66. | 188. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 9 | A35 | 0.38 |
| 9 444AC | 7. | 22. | 73. | 208. | 4 | 250. | 0.11500 | 3.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 445A | 13. | 20. | 86. | 227. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 13 | A25 | 0.42 |
| 9 446D | 7. | 18. | 7. | 18. | 3 | 1900. | 0.05000 | 0.00 | 0.00 | 0. | 2 | 6 | A25 | 0.42 |
| 9 447AD | 7. | 14. | 93. | 239. | 4 | 70. | 0.07000 | 3.50 | 0.00 | 0. | 4 | 0 | A35 | 0.00 |
| 9 448E | 55. | 133. | 55. | 133. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 13 | A35 | 0.30 |

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT PROG F0601A

MODIFIED RATIONAL METHOD HYDROLOGY

RANCHO PALOS VERDES, LOS ANGELES 4 (LA4-51.DAT) STORM DAY 4

| LOCATION | | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | 1A | 25. | 98. | 25. | 98. | 1 | 550. | 0.19200 | 0.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 | 2A | 7. | 27. | 32. | 116. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 | 3B | 20. | 39. | 20. | 39. | 4 | 510. | 0.26000 | 2.00 | 0.00 | 0. | 2 | 10 | A25 | 0.30 |
| 9 | 4AB | 20. | 38. | 52. | 154. | 4 | 70. | 0.03000 | 3.50 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 | 5A | 1. | 2. | 53. | 156. | 4 | 280. | 0.14000 | 2.50 | 0.00 | 0. | 4 | 5 | A25 | 0.30 |
| 9 | 6A | 2. | 7. | 55. | 161. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 191 | 5 | A35 | 0.15 |
| 9 | 7C | 2. | 5. | 2. | 5. | 4 | 360. | 0.14000 | 2.00 | 0.00 | 0. | 4 | 5 | A25 | 0.42 |
| 9 | 8AC | 2. | 5. | 57. | 166. | 1 | 230. | 0.13500 | 0.00 | 0.00 | 0. | 4 | 0 | A35 | 0.00 |
| 9 | 9A | 3. | 9. | 60. | 172. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 191 | 7 | A35 | 0.15 |
| 9 | 10A | 0. | 0. | 60. | 172. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A35 | 0.00 |
| 9 | 11A | 0. | 0. | 60. | 172. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A35 | 0.00 |
| 9 | 12A | 0. | 0. | 60. | 172. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A35 | 0.00 |
| 9 | 13D | 22. | 51. | 22. | 51. | 1 | 460. | 0.22400 | 0.00 | 0.00 | 0. | 2 | 7 | A25 | 0.37 |
| 9 | 14D | 4. | 11. | 26. | 59. | 4 | 1400. | 0.15000 | 2.00 | 0.00 | 0. | 2 | 5 | A25 | 0.30 |
| 9 | 15D | 20. | 71. | 46. | 124. | 1 | 1050. | 0.15000 | 0.00 | 0.00 | 0. | 2 | 6 | A35 | 0.30 |
| 9 | 16D | 18. | 59. | 64. | 169. | 4 | 310. | 0.24000 | 2.50 | 0.00 | 0. | 2 | 7 | A35 | 0.30 |
| 9 | 17AD | 64. | 168. | 124. | 339. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 | 18E | 3. | 8. | 3. | 8. | 1 | 280. | 0.19200 | 0.00 | 0.00 | 0. | 4 | 5 | A25 | 0.42 |
| 9 | 19AE | 3. | 7. | 127. | 346. | 2 | 690. | 0.09000 | 0.00 | 0.00 | 0. | 4 | 0 | A35 | 0.00 |
| 9 | 20A | 9. | 34. | 136. | 360. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 191 | 5 | A35 | 0.30 |
| 9 | 21B | 9. | 19. | 9. | 19. | 1 | 250. | 0.20800 | 0.00 | 0.00 | 0. | 4 | 7 | A25 | 0.42 |
| 9 | 22AB | 9. | 19. | 145. | 378. | 2 | 600. | 0.05000 | 0.00 | 0.00 | 0. | 4 | 0 | A35 | 0.00 |
| 9 | 23A | 9. | 29. | 154. | 399. | 4 | 200. | 0.09000 | 4.00 | 0.00 | 0. | 191 | 7 | A35 | 0.33 |
| 9 | 24A | 1. | 4. | 155. | 399. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 5 | A35 | 0.42 |
| 9 | 25C | 3. | 8. | 3. | 8. | 4 | 200. | 0.25000 | 2.00 | 0.00 | 0. | 4 | 5 | A25 | 0.42 |
| 9 | 26A | 0. | 0. | 155. | 399. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A35 | 0.00 |
| 9 | 27A | 0. | 0. | 155. | 399. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A35 | 0.00 |
| 9 | 28A | 0. | 0. | 155. | 399. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A35 | 0.00 |
| 9 | 29AC | 3. | 7. | 158. | 404. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 0 | A35 | 0.00 |
| 9 | 30D | 2. | 5. | 2. | 5. | 4 | 170. | 0.26000 | 2.00 | 0.00 | 0. | 4 | 5 | A25 | 0.42 |
| 9 | 31AD | 2. | 5. | 160. | 407. | 2 | 300. | 0.04000 | 0.00 | 0.00 | 0. | 4 | 0 | A35 | 0.00 |
| 9 | 32A | 4. | 12. | 164. | 412. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 7 | A35 | 0.42 |
| 9 | 33E | 29. | 62. | 29. | 62. | 4 | 600. | 0.20000 | 2.00 | 0.00 | 0. | 2 | 8 | A25 | 0.30 |
| 9 | 34E | 10. | 39. | 39. | 98. | 1 | 530. | 0.17200 | 0.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 | 35E | 3. | 11. | 42. | 105. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 6 | A35 | 0.24 |
| 9 | 36B | 4. | 11. | 4. | 11. | 1 | 150. | 0.23000 | 0.00 | 0.00 | 0. | 2 | 5 | A25 | 0.30 |
| 9 | 37BE | 42. | 105. | 46. | 115. | 1 | 320. | 0.14000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 | 38B | 0. | 0. | 46. | 114. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 | 39B | 0. | 0. | 46. | 114. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 | 40B | 0. | 0. | 46. | 114. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 | 41B | 4. | 15. | 50. | 127. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 6 | A35 | 0.29 |
| 9 | 42C | 2. | 6. | 2. | 6. | 1 | 300. | 0.22500 | 0.00 | 0.00 | 0. | 2 | 5 | A25 | 0.42 |
| 9 | 43BC | 2. | 5. | 52. | 132. | 2 | 290. | 0.09000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 | 44B | 4. | 13. | 56. | 144. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 7 | A35 | 0.29 |
| 9 | 45D | 1. | 3. | 1. | 3. | 4 | 430. | 0.37000 | 2.00 | 0.00 | 0. | 2 | 5 | A25 | 0.42 |
| 9 | 46BD | 1. | 3. | 57. | 146. | 2 | 430. | 0.06000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT



MODIFIED RATIONAL METHOD HYDROLOGY

RANCHO PALOS VERDES, LOS ANGELES 4 (LA4-51.DAT)

STORM DAY 4

| LOCATION | | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | 47B | 7. | 22. | 64. | 163. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 191 | 7 | A35 | 0.34 |
| 9 | 48E | 1. | 3. | 1. | 3. | 1 | 540. | 0.19700 | 0.00 | 0.00 | 0. | 4 | 5 | A25 | 0.42 |
| 9 | 49BE | 1. | 2. | 65. | 165. | 1 | 480. | 0.10800 | 0.00 | 0.00 | 0. | 4 | 0 | A35 | 0.00 |
| 9 | 50AB | 65. | 162. | 229. | 575. | 4 | 500. | 0.03000 | 5.50 | 0.00 | 0. | 4 | 0 | A35 | 0.00 |

MODIFIED RATIONAL METHOD HYDROLOGY

RANCHO PALOS VERDES, LOS ANGELES 5 (LAS-51.DAT) STORM DAY 4

| LOCATION | | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | 55A | 7. | 15. | 7. | 15. | 4 | 300. | 0.17000 | 2.00 | 0.00 | 0. | 4 | 7 | A25 | 0.42 |
| 9 | 56A | 3. | 11. | 10. | 25. | 4 | 1600. | 0.08000 | 2.00 | 0.00 | 0. | 4 | 5 | A35 | 0.42 |
| 9 | 57A | 17. | 51. | 27. | 74. | 2 | 700. | 0.04000 | 0.00 | 0.00 | 0. | 4 | 7 | A35 | 0.42 |
| 9 | 58A | 6. | 22. | 33. | 85. | 4 | 400. | 0.10000 | 2.25 | 0.00 | 0. | 4 | 5 | A35 | 0.42 |
| 9 | 59A | 18. | 46. | 51. | 129. | 4 | 700. | 0.05000 | 3.00 | 0.00 | 0. | 4 | 10 | A35 | 0.42 |
| 9 | 60A | 34. | 54. | 85. | 182. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 12 | A25 | 0.44 |
| 9 | 61B | 1. | 3. | 1. | 3. | 2 | 500. | 0.08000 | 0.00 | 0.00 | 0. | 4 | 5 | A35 | 0.00 |
| 9 | 62AB | 1. | 3. | 86. | 185. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 0 | A35 | 0.00 |
| 9 | 63E | 4. | 10. | 4. | 10. | 1 | 680. | 0.10000 | 0.00 | 0.00 | 0. | 4 | 5 | A25 | 0.42 |
| 9 | 64AE | 4. | 8. | 90. | 193. | 4 | 80. | 0.04000 | 3.50 | 0.00 | 0. | 4 | 0 | A35 | 0.00 |
| 9 | 65C | 6. | 14. | 6. | 14. | 4 | 400. | 0.19000 | 2.00 | 0.00 | 0. | 4 | 6 | A25 | 0.42 |
| 9 | 66C | 6. | 22. | 12. | 35. | 4 | 1150. | 0.08000 | 2.00 | 0.00 | 0. | 4 | 5 | A35 | 0.42 |
| 9 | 67C | 14. | 40. | 26. | 72. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 8 | A35 | 0.42 |
| 9 | 68D | 6. | 15. | 6. | 15. | 3 | 1150. | 0.11000 | 0.00 | 0.00 | 0. | 4 | 5 | A25 | 0.42 |
| 9 | 69D | 2. | 7. | 8. | 18. | 3 | 900. | 0.10000 | 0.00 | 0.00 | 0. | 4 | 5 | A35 | 0.42 |
| 9 | 70CD | 8. | 17. | 34. | 86. | 3 | 800. | 0.07500 | 0.00 | 0.00 | 0. | 4 | 0 | A35 | 0.00 |
| 9 | 71C | 10. | 30. | 44. | 110. | 4 | 550. | 0.01000 | 3.75 | 0.00 | 0. | 4 | 7 | A35 | 0.42 |
| 9 | 72C | 3. | 7. | 47. | 116. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 12 | A35 | 0.61 |
| 9 | 73E | 27. | 63. | 27. | 63. | 4 | 200. | 0.04000 | 2.25 | 0.00 | 0. | 4 | 12 | A35 | 0.42 |
| 9 | 74CE | 27. | 63. | 74. | 177. | 4 | 550. | 0.08500 | 3.00 | 0.00 | 0. | 4 | 0 | A35 | 0.00 |
| 9 | 75C | 18. | 32. | 92. | 206. | 4 | 180. | 0.08000 | 3.25 | 0.00 | 0. | 4 | 11 | A25 | 0.56 |

RANCHO PALOS VERDES, LOS ANGELES 6 (LA6-51.DAT) STORM DAY 4

| LOCATION | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 81A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 82A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 83A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 84A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 85A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 86A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 87A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 88A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 89A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 90A | 7. | 17. | 7. | 17. | 1 | 650. | 0.22000 | 0.00 | 0.00 | 0. | 2 | 6 | A25 | 0.30 |
| 9 91A | 42. | 104. | 49. | 120. | 1 | 1170. | 0.12000 | 0.00 | 0.00 | 0. | 190 | 13 | A35 | 0.15 |
| 9 92A | 52. | 124. | 101. | 238. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 14 | A35 | 0.15 |
| 9 93B | 2. | 5. | 2. | 5. | 4 | 460. | 0.43000 | 2.00 | 0.00 | 0. | 2 | 5 | A25 | 0.30 |
| 9 94AB | 2. | 5. | 103. | 241. | 2 | 1180. | 0.08000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 95A | 42. | 104. | 145. | 338. | 1 | 400. | 0.17500 | 0.00 | 0.00 | 0. | 2 | 13 | A35 | 0.47 |
| 9 96C | 5. | 8. | 5. | 8. | 4 | 200. | 0.37500 | 2.00 | 0.00 | 0. | 2 | 15 | A25 | 0.50 |
| 9 97A | 3. | 12. | 148. | 340. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 5 | A35 | 0.00 |
| 9 98AC | 5. | 8. | 153. | 348. | 2 | 1250. | 0.07000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 99A | 0. | 0. | 153. | 347. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 100A | 0. | 0. | 153. | 347. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 101A | 0. | 0. | 153. | 347. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 102A | 12. | 34. | 165. | 364. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 191 | 8 | A35 | 0.00 |
| 9 103D | 1. | 4. | 1. | 4. | 4 | 250. | 0.44000 | 2.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 104AD | 1. | 4. | 166. | 365. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 105E | 7. | 14. | 7. | 14. | 4 | 320. | 0.31000 | 2.00 | 0.00 | 0. | 4 | 8 | A25 | 0.42 |
| 9 106AE | 7. | 14. | 173. | 374. | 2 | 3300. | 0.07000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 107A | 23. | 56. | 196. | 405. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 13 | A35 | 0.00 |
| 9 108B | 5. | 13. | 5. | 13. | 1 | 350. | 0.12800 | 0.00 | 0.00 | 0. | 4 | 9 | A35 | 0.42 |
| 9 109AB | 5. | 13. | 201. | 414. | 4 | 130. | 0.04000 | 4.50 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 110A | 4. | 16. | 205. | 415. | 4 | 900. | 0.08000 | 4.00 | 0.00 | 0. | 13 | 5 | A35 | 0.42 |
| 9 111A | 50. | 79. | 255. | 481. | 4 | 1300. | 0.05000 | 4.75 | 0.00 | 0. | 13 | 15 | A25 | 0.53 |
| 9 112A | 20. | 44. | 275. | 487. | 4 | 450. | 0.04000 | 4.75 | 0.00 | 0. | 13 | 8 | A25 | 0.42 |
| 9 113C | 29. | 48. | 29. | 48. | 4 | 200. | 0.05000 | 2.00 | 0.00 | 0. | 13 | 13 | A25 | 0.42 |
| 9 114C | 20. | 32. | 49. | 80. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 13 | 14 | A25 | 0.42 |

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT



MODIFIED RATIONAL METHOD HYDROLOGY

RANCHO PALOS VERDES, LOS ANGELES 7 (LA7-S1.DAT)

STORM DAY 4

| LOCATION | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 114A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 115A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 116A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 117A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 118A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 119A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 120A | 10. | 36. | 10. | 36. | 4 | 350. | 0.18500 | 2.00 | 0.00 | 0. | 2 | 6 | A35 | 0.39 |
| 9 121A | 8. | 24. | 18. | 60. | 1 | 1600. | 0.10000 | 0.00 | 0.00 | 0. | 2 | 8 | A35 | 0.30 |
| 9 122A | 10. | 33. | 28. | 71. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 7 | A35 | 0.30 |
| 9 123B | 18. | 55. | 18. | 55. | 4 | 150. | 0.11000 | 2.00 | 0.00 | 0. | 2 | 8 | A35 | 0.30 |
| 9 124AB | 18. | 55. | 46. | 123. | 1 | 100. | 0.12800 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 125A | 1. | 4. | 47. | 126. | 4 | 350. | 0.04600 | 3.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 126A | 0. | 0. | 47. | 125. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 5 | A35 | 0.00 |
| 9 127C | 3. | 12. | 3. | 12. | 4 | 350. | 0.08600 | 2.00 | 0.00 | 0. | 2 | 5 | A35 | 0.42 |
| 9 128AC | 3. | 11. | 50. | 134. | 4 | 1400. | 0.07000 | 2.75 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 129A | 22. | 73. | 72. | 196. | 1 | 620. | 0.12000 | 0.00 | 0.00 | 0. | 2 | 7 | A35 | 0.42 |
| 9 130A | 0. | 0. | 72. | 192. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 131A | 0. | 0. | 72. | 192. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 132A | 0. | 0. | 72. | 192. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 133A | 0. | 0. | 72. | 192. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 134A | 0. | 0. | 72. | 192. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 135A | 6. | 25. | 78. | 206. | 4 | 120. | 0.07000 | 3.25 | 0.00 | 0. | 13 | 5 | A35 | 0.48 |
| 9 136E | 14. | 31. | 14. | 31. | 4 | 300. | 0.03000 | 2.00 | 0.00 | 0. | 13 | 8 | A25 | 0.47 |
| 9 137AE | 14. | 31. | 92. | 235. | 4 | 730. | 0.04000 | 3.75 | 0.00 | 0. | 13 | 0 | A35 | 0.00 |

RANCHO PALOS VERDES, LOS ANGELES 8 (LA78-51.DAT) STORM DAY 4

| LOCATION | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 139B | 6. | 15. | 6. | 15. | 1 | 1200. | 0.15000 | 0.00 | 0.00 | 0. | 2 | 6 | A25 | 0.60 |
| 9 140B | 16. | 46. | 22. | 56. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 9 | A35 | 0.30 |
| 9 141C | 1. | 3. | 1. | 3. | 1 | 150. | 0.22500 | 0.00 | 0.00 | 0. | 2 | 5 | A25 | 0.30 |
| 9 142BC | 1. | 3. | 23. | 58. | 1 | 2250. | 0.10000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 143B | 23. | 39. | 46. | 83. | 4 | 200. | 0.00500 | 3.75 | 0.00 | 0. | 2 | 13 | A25 | 0.31 |
| 9 144C | 16. | 37. | 16. | 37. | 4 | 280. | 0.16000 | 2.00 | 0.00 | 0. | 2 | 7 | A25 | 0.42 |
| 9 145BC | 16. | 37. | 62. | 101. | 3 | 435. | 0.08000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 146B | 0. | 0. | 62. | 101. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 147B | 0. | 0. | 62. | 101. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 148B | 0. | 0. | 62. | 101. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 149B | 0. | 0. | 62. | 101. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 150B | 0. | 0. | 62. | 101. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 151B | 0. | 0. | 62. | 101. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 152B | 0. | 0. | 62. | 101. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 153B | 0. | 0. | 62. | 101. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 154B | 0. | 0. | 62. | 101. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 155B | 0. | 0. | 62. | 101. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 156B | 0. | 0. | 62. | 101. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 157B | 0. | 0. | 62. | 101. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 158B | 0. | 0. | 62. | 101. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 159B | 0. | 0. | 62. | 101. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 160D | 35. | 85. | 35. | 85. | 4 | 10. | 0.50000 | 2.00 | 0.00 | 0. | 2 | 13 | A35 | 0.34 |
| 9 161D | 2. | 5. | 37. | 90. | 1 | 340. | 0.16800 | 0.00 | 0.00 | 0. | 2 | 14 | A35 | 0.30 |
| 9 162D | 2. | 8. | 39. | 96. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 163E | 32. | 98. | 32. | 98. | 4 | 490. | 0.20000 | 2.00 | 0.00 | 0. | 2 | 8 | A35 | 0.30 |
| 9 164DE | 32. | 98. | 71. | 193. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 165C | 1. | 3. | 1. | 3. | 1 | 250. | 0.19200 | 0.00 | 0.00 | 0. | 2 | 7 | A35 | 0.30 |
| 9 166CD | 71. | 193. | 72. | 196. | 1 | 2650. | 0.12000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 167C | 43. | 104. | 115. | 270. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 13 | A35 | 0.30 |
| 9 168C | 0. | 0. | 115. | 270. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 169C | 0. | 0. | 115. | 270. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 170C | 0. | 0. | 115. | 270. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 171C | 0. | 0. | 115. | 270. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 172C | 0. | 0. | 115. | 270. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 173C | 0. | 0. | 115. | 270. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 174C | 0. | 0. | 115. | 270. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 175C | 0. | 0. | 115. | 270. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 176C | 0. | 0. | 115. | 270. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 177C | 0. | 0. | 115. | 270. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 178D | 7. | 27. | 7. | 27. | 1 | 950. | 0.12800 | 0.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 179D | 6. | 13. | 13. | 35. | 1 | 550. | 0.11500 | 0.00 | 0.00 | 0. | 2 | 8 | A25 | 0.30 |
| 9 180D | 8. | 17. | 21. | 47. | 1 | 700. | 0.17200 | 0.00 | 0.00 | 0. | 2 | 8 | A25 | 0.30 |
| 9 181D | 8. | 28. | 29. | 61. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 6 | A35 | 0.30 |
| 9 182E | 2. | 6. | 2. | 6. | 4 | 270. | 0.33000 | 2.00 | 0.00 | 0. | 2 | 8 | A35 | 0.30 |
| 9 183DE | 2. | 6. | 31. | 67. | 1 | 900. | 0.12000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 184E | 2. | 8. | 2. | 8. | 1 | 220. | 0.21800 | 0.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |

RANCHO PALOS VERDES, LOS ANGELES 8 (LA78-51.DAT) STORM DAY 4

| LOCATION | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 185CE | 2. | 7. | 117. | 273. | 1 | 250. | 0.11500 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 186C | 10. | 33. | 127. | 286. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 7 | A35 | 0.30 |
| 9 187CD | 31. | 66. | 158. | 351. | 2 | 500. | 0.05000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 188C | 0. | 0. | 158. | 350. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 189C | 0. | 0. | 158. | 350. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 190C | 0. | 0. | 158. | 350. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 191C | 0. | 0. | 158. | 350. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 192C | 7. | 25. | 165. | 357. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 6 | A35 | 0.30 |
| 9 193D | 13. | 34. | 13. | 34. | 4 | 330. | 0.35000 | 2.00 | 0.00 | 0. | 2 | 11 | A35 | 0.30 |
| 9 194CD | 13. | 34. | 178. | 388. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 195E | 11. | 29. | 11. | 29. | 4 | 250. | 0.28000 | 2.00 | 0.00 | 0. | 2 | 11 | A35 | 0.30 |
| 9 196CE | 11. | 29. | 189. | 414. | 4 | 600. | 0.05000 | 4.50 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 197BC | 189. | 414. | 251. | 512. | 4 | 300. | 0.07000 | 4.50 | 0.00 | 0. | 13 | 0 | A35 | 0.00 |
| 9 198B | 13. | 37. | 264. | 518. | 4 | 850. | 0.08600 | 4.25 | 0.00 | 0. | 13 | 5 | A25 | 0.42 |
| 9 199C | 25. | 59. | 25. | 59. | 4 | 200. | 0.00500 | 3.25 | 0.00 | 0. | 13 | 7 | A25 | 0.42 |
| 9 200BC | 25. | 58. | 289. | 554. | 4 | 500. | 0.03000 | 5.50 | 0.00 | 0. | 13 | 0 | A35 | 0.00 |
| 9 201B | 14. | 48. | 303. | 585. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 13 | 7 | A35 | 0.47 |
| 9 202A | 92. | 235. | 92. | 235. | 4 | 730. | 0.04000 | 3.75 | 0.00 | 0. | 13 | 0 | A25 | 0.00 |
| 9 203AB | 303. | 585. | 395. | 817. | 4 | 550. | 0.04000 | 6.00 | 0.00 | 0. | 13 | 0 | A35 | 0.00 |
| 9 204A | 0. | 0. | 395. | 813. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 13 | 99 | A35 | 0.00 |
| 9 205A | 0. | 0. | 395. | 813. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 13 | 99 | A35 | 0.00 |
| 9 206A | 0. | 0. | 395. | 813. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 13 | 99 | A35 | 0.00 |
| 9 207C | 4. | 11. | 4. | 11. | 4 | 330. | 0.12000 | 2.00 | 0.00 | 0. | 2 | 5 | A25 | 0.30 |
| 9 208C | 3. | 12. | 7. | 22. | 1 | 400. | 0.15000 | 0.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 209C | 3. | 11. | 10. | 31. | 3 | 650. | 0.09000 | 0.00 | 0.00 | 0. | 2 | 6 | A35 | 0.36 |
| 9 210D | 1. | 4. | 1. | 4. | 4 | 200. | 0.16500 | 2.00 | 0.00 | 0. | 2 | 5 | A35 | 0.42 |
| 9 211C | 7. | 16. | 17. | 45. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 13 | 7 | A25 | 0.42 |
| 9 212CD | 1. | 4. | 18. | 48. | 3 | 800. | 0.05000 | 0.00 | 0.00 | 0. | 13 | 0 | A25 | 0.00 |
| 9 213C | 13. | 30. | 31. | 69. | 4 | 800. | 0.04000 | 2.50 | 0.00 | 0. | 13 | 7 | A25 | 0.42 |
| 9 214AC | 31. | 69. | 426. | 882. | 4 | 500. | 0.08000 | 5.25 | 0.00 | 0. | 13 | 0 | A35 | 0.00 |
| 9 215B | 8. | 17. | 8. | 17. | 4 | 130. | 0.08000 | 2.00 | 0.00 | 0. | 13 | 9 | A25 | 0.70 |
| 9 216AB | 8. | 17. | 434. | 894. | 4 | 250. | 0.01000 | 7.75 | 0.00 | 0. | 13 | 0 | A35 | 0.00 |

RANCHO PALOS VERDES, LOS ANGELES 9 (LA9-283A.DAT) STORM DAY 4

| LOCATION | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 218A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 219A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 220A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 221A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 222A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 223A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 224A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 225A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 226A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 227B | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 228A | 23. | 90. | 23. | 90. | 4 | 40. | 0.05000 | 2.50 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 229A | 1. | 4. | 24. | 93. | 1 | 900. | 0.18200 | 0.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 230A | 9. | 35. | 33. | 113. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 5 | A35 | 0.25 |
| 9 231B | 2. | 8. | 2. | 8. | 4 | 200. | 0.40000 | 2.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 232AB | 2. | 8. | 35. | 120. | 1 | 300. | 0.14500 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 233B | 3. | 12. | 3. | 12. | 4 | 50. | 0.20000 | 2.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 234B | 4. | 16. | 7. | 27. | 1 | 530. | 0.17200 | 0.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 235B | 4. | 16. | 11. | 38. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 236C | 1. | 4. | 1. | 4. | 4 | 190. | 0.34000 | 2.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 237BC | 1. | 4. | 12. | 42. | 1 | 400. | 0.16000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 238B | 0. | 0. | 12. | 41. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 239B | 0. | 0. | 12. | 41. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 240B | 0. | 0. | 12. | 41. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 241B | 0. | 0. | 12. | 41. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 242C | 34. | 111. | 34. | 111. | 1 | 300. | 0.11500 | 0.00 | 0.00 | 0. | 2 | 7 | A35 | 0.30 |
| 9 243C | 2. | 8. | 36. | 117. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 244D | 3. | 11. | 3. | 11. | 1 | 300. | 0.15000 | 0.00 | 0.00 | 0. | 2 | 6 | A35 | 0.30 |
| 9 245CD | 3. | 10. | 39. | 127. | 1 | 1100. | 0.10000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 246C | 7. | 21. | 46. | 137. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 8 | A35 | 0.30 |
| 9 247E | 5. | 15. | 5. | 15. | 1 | 300. | 0.14500 | 0.00 | 0.00 | 0. | 2 | 8 | A35 | 0.30 |
| 9 248CE | 5. | 15. | 51. | 152. | 1 | 300. | 0.12000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 249C | 12. | 42. | 63. | 176. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 6 | A35 | 0.30 |
| 9 250BC | 63. | 176. | 75. | 214. | 1 | 350. | 0.10000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 251B | 5. | 20. | 80. | 221. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 5 | A35 | 0.06 |
| 9 252AB | 80. | 221. | 115. | 334. | 1 | 2100. | 0.10800 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 253A | 0. | 0. | 115. | 309. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 254A | 0. | 0. | 115. | 309. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 255A | 0. | 0. | 115. | 309. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 256A | 0. | 0. | 115. | 309. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 257A | 0. | 0. | 115. | 309. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 258A | 33. | 85. | 148. | 386. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 12 | A35 | 0.16 |
| 9 259C | 6. | 23. | 6. | 23. | 1 | 200. | 0.21400 | 0.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 260AC | 6. | 22. | 154. | 393. | 2 | 950. | 0.06000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 261A | 7. | 20. | 161. | 401. | 4 | 90. | 0.11000 | 3.75 | 0.00 | 0. | 2 | 9 | A35 | 0.37 |
| 9 262A | 0. | 0. | 161. | 401. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 263A | 0. | 0. | 161. | 401. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT PROG FO601A

MODIFIED RATIONAL METHOD HYDROLOGY

RANCHO PALOS VERDES, LOS ANGELES 9 (LA9-283A.DAT) STORM DAY 4

| LOCATION | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 264B | 4. | 12. | 4. | 12. | 1 | 1000. | 0.15000 | 0.00 | 0.00 | 0. | 2 | 8 | A35 | 0.30 |
| 9 265C | 4. | 16. | 4. | 16. | 2 | 600. | 0.09000 | 0.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 266C | 13. | 46. | 17. | 60. | 1 | 1000. | 0.12000 | 0.00 | 0.00 | 0. | 2 | 6 | A35 | 0.30 |
| 9 267B | 17. | 55. | 21. | 63. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 7 | A35 | 0.30 |
| 9 268BC | 17. | 54. | 38. | 113. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 269D | 3. | 12. | 3. | 12. | 4 | 300. | 0.17000 | 2.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 270BD | 3. | 11. | 41. | 122. | 1 | 130. | 0.15500 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 271B | 1. | 4. | 42. | 123. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 272E | 8. | 24. | 8. | 24. | 1 | 170. | 0.21000 | 0.00 | 0.00 | 0. | 2 | 8 | A35 | 0.30 |
| 9 273BE | 8. | 24. | 50. | 148. | 1 | 1000. | 0.11500 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 274B | 10. | 31. | 60. | 168. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 8 | A35 | 0.30 |
| 9 275B | 0. | 0. | 60. | 168. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 276B | 0. | 0. | 60. | 168. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 277B | 0. | 0. | 60. | 168. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 278B | 0. | 0. | 60. | 168. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 279C | 8. | 24. | 8. | 24. | 4 | 150. | 0.30000 | 2.00 | 0.00 | 0. | 2 | 8 | A35 | 0.30 |
| 9 280BC | 8. | 24. | 68. | 189. | 2 | 200. | 0.06500 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 281B | 3. | 12. | 71. | 194. | 4 | 520. | 0.10000 | 3.00 | 0.00 | 0. | 2 | 5 | A35 | 0.34 |
| 9 282AB | 71. | 194. | 232. | 574. | 4 | 250. | 0.04000 | 5.25 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 283A | 20. | 46. | 252. | 593. | 4 | 1000. | 0.03000 | 5.50 | 0.00 | 0. | 2 | 7 | A25 | 0.43 |
| 9 284A | 23. | 51. | 275. | 610. | 4 | 290. | 0.10000 | 4.50 | 0.00 | 0. | 13 | 8 | A25 | 0.53 |
| 9 285A | 0. | 0. | 275. | 609. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 13 | 99 | A25 | 0.00 |
| 9 286B | 37. | 76. | 37. | 76. | 4 | 170. | 0.03500 | 2.50 | 0.00 | 0. | 13 | 9 | A25 | 0.42 |
| 9 287B | 0. | 0. | 37. | 76. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 13 | 99 | A25 | 0.00 |

RANCHO PALOS VERDES, LOS ANGELES 9 (LA9-283A.DAT) STORM DAY 3

| LOCATION | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 218A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 219A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 220A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 221A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 222A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 223A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 224A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 225A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 226A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 227B | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 228A | 23. | 29. | 23. | 29. | 4 | 40. | 0.05000 | 2.50 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 229A | 1. | 1. | 24. | 30. | 1 | 900. | 0.18200 | 0.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 230A | 9. | 11. | 33. | 33. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 5 | A35 | 0.25 |
| 9 231B | 2. | 3. | 2. | 3. | 4 | 200. | 0.40000 | 2.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 232AB | 2. | 2. | 35. | 35. | 1 | 300. | 0.14500 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 233B | 3. | 4. | 3. | 4. | 4 | 50. | 0.20000 | 2.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 234B | 4. | 5. | 7. | 9. | 1 | 530. | 0.17200 | 0.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 235B | 4. | 5. | 11. | 11. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 236C | 1. | 1. | 1. | 1. | 4 | 190. | 0.34000 | 2.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 237BC | 1. | 1. | 12. | 12. | 1 | 400. | 0.16000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 238B | 0. | 0. | 12. | 12. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 239B | 0. | 0. | 12. | 12. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 240B | 0. | 0. | 12. | 12. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 241B | 0. | 0. | 12. | 12. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 242C | 34. | 35. | 34. | 35. | 1 | 300. | 0.11500 | 0.00 | 0.00 | 0. | 2 | 7 | A35 | 0.30 |
| 9 243C | 2. | 3. | 36. | 37. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 244D | 3. | 3. | 3. | 3. | 1 | 300. | 0.15000 | 0.00 | 0.00 | 0. | 2 | 6 | A35 | 0.30 |
| 9 245CD | 3. | 3. | 39. | 40. | 1 | 1100. | 0.10000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 246C | 7. | 7. | 46. | 40. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 8 | A35 | 0.30 |
| 9 247E | 5. | 5. | 5. | 5. | 1 | 300. | 0.14500 | 0.00 | 0.00 | 0. | 2 | 8 | A35 | 0.30 |
| 9 248CE | 5. | 5. | 51. | 44. | 1 | 300. | 0.12000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 249C | 12. | 14. | 63. | 48. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 6 | A35 | 0.30 |
| 9 250BC | 63. | 48. | 75. | 59. | 1 | 350. | 0.10000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 251B | 5. | 6. | 80. | 60. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 5 | A35 | 0.06 |
| 9 252AB | 80. | 60. | 115. | 92. | 1 | 2100. | 0.10800 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 253A | 0. | 0. | 115. | 82. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 254A | 0. | 0. | 115. | 82. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 255A | 0. | 0. | 115. | 82. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 256A | 0. | 0. | 115. | 82. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 257A | 0. | 0. | 115. | 82. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 258A | 33. | 27. | 148. | 100. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 12 | A35 | 0.16 |
| 9 259C | 6. | 8. | 6. | 8. | 1 | 200. | 0.21400 | 0.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 260AC | 6. | 7. | 154. | 102. | 2 | 950. | 0.06000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 261A | 7. | 6. | 161. | 102. | 4 | 90. | 0.11000 | 3.75 | 0.00 | 0. | 2 | 9 | A35 | 0.37 |
| 9 262A | 0. | 0. | 161. | 102. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 263A | 0. | 0. | 161. | 102. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT



MODIFIED RATIONAL METHOD HYDROLOGY

RANCHO PALOS VERDES, LOS ANGELES 9 (LA9-283A.DAT) STORM DAY 3

| LOCATION | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 264B | 4. | 4. | 4. | 4. | 1 | 1000. | 0.15000 | 0.00 | 0.00 | 0. | 2 | 8 | A35 | 0.30 |
| 9 265C | 4. | 5. | 4. | 5. | 2 | 600. | 0.09000 | 0.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 266C | 13. | 15. | 17. | 19. | 1 | 1000. | 0.12000 | 0.00 | 0.00 | 0. | 2 | 6 | A35 | 0.30 |
| 9 267B | 17. | 18. | 21. | 19. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 7 | A35 | 0.30 |
| 9 268BC | 17. | 16. | 38. | 31. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 269D | 3. | 4. | 3. | 4. | 4 | 300. | 0.17000 | 2.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 270BD | 3. | 4. | 41. | 34. | 1 | 130. | 0.15500 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 271B | 1. | 1. | 42. | 35. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 272E | 8. | 8. | 8. | 8. | 1 | 170. | 0.21000 | 0.00 | 0.00 | 0. | 2 | 8 | A35 | 0.30 |
| 9 273BE | 8. | 8. | 50. | 42. | 1 | 1000. | 0.11500 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 274B | 10. | 10. | 60. | 46. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 8 | A35 | 0.30 |
| 9 275B | 0. | 0. | 60. | 46. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 276B | 0. | 0. | 60. | 46. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 277B | 0. | 0. | 60. | 46. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 278B | 0. | 0. | 60. | 46. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 279C | 8. | 8. | 8. | 8. | 4 | 150. | 0.30000 | 2.00 | 0.00 | 0. | 2 | 8 | A35 | 0.30 |
| 9 280BC | 8. | 8. | 68. | 52. | 2 | 200. | 0.06500 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 281B | 3. | 4. | 71. | 53. | 4 | 520. | 0.10000 | 3.00 | 0.00 | 0. | 2 | 5 | A35 | 0.34 |
| 9 282AB | 71. | 53. | 232. | 146. | 4 | 250. | 0.04000 | 5.25 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 283A | 20. | 15. | 252. | 149. | 4 | 1000. | 0.03000 | 5.50 | 0.00 | 0. | 2 | 7 | A25 | 0.43 |
| 9 284A | 23. | 14. | 275. | 152. | 4 | 290. | 0.10000 | 4.50 | 0.00 | 0. | 13 | 8 | A25 | 0.53 |
| 9 285A | 0. | 0. | 275. | 151. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 13 | 99 | A25 | 0.00 |
| 9 286B | 37. | 19. | 37. | 19. | 4 | 170. | 0.03500 | 2.50 | 0.00 | 0. | 13 | 9 | A25 | 0.42 |
| 9 287B | 0. | 0. | 37. | 19. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 13 | 99 | A25 | 0.00 |

RANCHO PALOS VERDES, LOS ANGELES 9 (LA9-283A.DAT) STORM DAY 2

| LOCATION | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 218A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 219A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 220A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 221A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 222A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 223A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 224A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 225A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 226A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 227B | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 228A | 23. | 34. | 23. | 34. | 4 | 40. | 0.05000 | 2.50 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 229A | 1. | 1. | 24. | 35. | 1 | 900. | 0.18200 | 0.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 230A | 9. | 13. | 33. | 39. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 5 | A35 | 0.25 |
| 9 231B | 2. | 3. | 2. | 3. | 4 | 200. | 0.40000 | 2.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 232AB | 2. | 3. | 35. | 42. | 1 | 300. | 0.14500 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 233B | 3. | 4. | 3. | 4. | 4 | 50. | 0.20000 | 2.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 234B | 4. | 6. | 7. | 10. | 1 | 530. | 0.17200 | 0.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 235B | 4. | 6. | 11. | 13. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 236C | 1. | 1. | 1. | 1. | 4 | 190. | 0.34000 | 2.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 237BC | 1. | 1. | 12. | 15. | 1 | 400. | 0.16000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 238B | 0. | 0. | 12. | 14. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 239B | 0. | 0. | 12. | 14. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 240B | 0. | 0. | 12. | 14. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 241B | 0. | 0. | 12. | 14. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 242C | 34. | 41. | 34. | 41. | 1 | 300. | 0.11500 | 0.00 | 0.00 | 0. | 2 | 7 | A35 | 0.30 |
| 9 243C | 2. | 3. | 36. | 43. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 244D | 3. | 4. | 3. | 4. | 1 | 300. | 0.15000 | 0.00 | 0.00 | 0. | 2 | 6 | A35 | 0.30 |
| 9 245CD | 3. | 4. | 39. | 47. | 1 | 1100. | 0.10000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 246C | 7. | 8. | 46. | 47. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 8 | A35 | 0.30 |
| 9 247E | 5. | 6. | 5. | 6. | 1 | 300. | 0.14500 | 0.00 | 0.00 | 0. | 2 | 8 | A35 | 0.30 |
| 9 248CE | 5. | 6. | 51. | 52. | 1 | 300. | 0.12000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 249C | 12. | 16. | 63. | 57. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 6 | A35 | 0.30 |
| 9 250BC | 63. | 57. | 75. | 70. | 1 | 350. | 0.10000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 251B | 5. | 7. | 80. | 71. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 5 | A35 | 0.06 |
| 9 252AB | 80. | 71. | 115. | 109. | 1 | 2100. | 0.10800 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 253A | 0. | 0. | 115. | 98. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 254A | 0. | 0. | 115. | 98. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 255A | 0. | 0. | 115. | 98. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 256A | 0. | 0. | 115. | 98. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 257A | 0. | 0. | 115. | 98. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 258A | 33. | 31. | 148. | 121. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 12 | A35 | 0.16 |
| 9 259C | 6. | 9. | 6. | 9. | 1 | 200. | 0.21400 | 0.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 260AC | 6. | 8. | 154. | 123. | 2 | 950. | 0.06000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 261A | 7. | 8. | 161. | 123. | 4 | 90. | 0.11000 | 3.75 | 0.00 | 0. | 2 | 9 | A35 | 0.37 |
| 9 262A | 0. | 0. | 161. | 123. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 263A | 0. | 0. | 161. | 123. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |

RANCHO PALOS VERDES, LOS ANGELES 9 (LA9-283A.DAT) STORM DAY 2

| LOCATION | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 264B | 4. | 4. | 4. | 4. | 1 | 1000. | 0.15000 | 0.00 | 0.00 | 0. | 2 | 8 | A35 | 0.30 |
| 9 265C | 4. | 6. | 4. | 6. | 2 | 600. | 0.09000 | 0.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 266C | 13. | 17. | 17. | 22. | 1 | 1000. | 0.12000 | 0.00 | 0.00 | 0. | 2 | 6 | A35 | 0.30 |
| 9 267B | 17. | 20. | 21. | 22. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 7 | A35 | 0.30 |
| 9 268BC | 17. | 19. | 38. | 37. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 269D | 3. | 4. | 3. | 4. | 4 | 300. | 0.17000 | 2.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 270BD | 3. | 4. | 41. | 41. | 1 | 130. | 0.15500 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 271B | 1. | 1. | 42. | 41. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 272E | 8. | 9. | 8. | 9. | 1 | 170. | 0.21000 | 0.00 | 0.00 | 0. | 2 | 8 | A35 | 0.30 |
| 9 273BE | 8. | 9. | 50. | 50. | 1 | 1000. | 0.11500 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 274B | 10. | 11. | 60. | 55. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 8 | A35 | 0.30 |
| 9 275B | 0. | 0. | 60. | 55. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 276B | 0. | 0. | 60. | 55. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 277B | 0. | 0. | 60. | 55. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 278B | 0. | 0. | 60. | 55. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 279C | 8. | 9. | 8. | 9. | 4 | 150. | 0.30000 | 2.00 | 0.00 | 0. | 2 | 8 | A35 | 0.30 |
| 9 280BC | 8. | 9. | 68. | 62. | 2 | 200. | 0.06500 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 281B | 3. | 4. | 71. | 63. | 4 | 520. | 0.10000 | 3.00 | 0.00 | 0. | 2 | 5 | A35 | 0.34 |
| 9 282AB | 71. | 63. | 232. | 176. | 4 | 250. | 0.04000 | 5.25 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 283A | 20. | 17. | 252. | 180. | 4 | 1000. | 0.03000 | 5.50 | 0.00 | 0. | 2 | 7 | A25 | 0.43 |
| 9 284A | 23. | 16. | 275. | 183. | 4 | 290. | 0.10000 | 4.50 | 0.00 | 0. | 13 | 8 | A25 | 0.53 |
| 9 285A | 0. | 0. | 275. | 183. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 13 | 99 | A25 | 0.00 |
| 9 286B | 37. | 23. | 37. | 23. | 4 | 170. | 0.03500 | 2.50 | 0.00 | 0. | 13 | 9 | A25 | 0.42 |
| 9 287B | 0. | 0. | 37. | 23. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 13 | 99 | A25 | 0.00 |

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT PROG FO601A

MODIFIED RATIONAL METHOD HYDROLOGY

RANCHO PALOS VERDES, LOS ANGELES 9 (LA9-283A.DAT) STORM DAY 1

| LOCATION | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 218A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 219A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 220A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 221A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 222A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 223A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 224A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 225A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 226A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 227B | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 228A | 23. | 7. | 23. | 7. | 4 | 40. | 0.05000 | 2.50 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 229A | 1. | 0. | 24. | 7. | 1 | 900. | 0.18200 | 0.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 230A | 9. | 2. | 33. | 6. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 5 | A35 | 0.25 |
| 9 231B | 2. | 1. | 2. | 1. | 4 | 200. | 0.40000 | 2.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 232AB | 2. | 1. | 35. | 6. | 1 | 300. | 0.14500 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 233B | 3. | 1. | 3. | 1. | 4 | 50. | 0.20000 | 2.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 234B | 4. | 1. | 7. | 2. | 1 | 530. | 0.17200 | 0.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 235B | 4. | 1. | 11. | 2. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |

RANCHO PALOS VERDES, LOS ANGELES 9 (LA9-283A.DAT)

CESSING DISCONTINUED @ 9 236C ERROR # 12

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | 218A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 | 219A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 | 220A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 | 221A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 | 222A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 | 223A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 | 224A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 | 225A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 | 226A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 | 227B | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 | 228A | 23. | 90. | 23. | 90. | 4 | 40. | 0.05000 | 2.50 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 | 229A | 1. | 4. | 24. | 93. | 1 | 900. | 0.18200 | 0.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 | 230A | 9. | 35. | 33. | 113. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 5 | A35 | 0.25 |
| 9 | 231B | 2. | 8. | 2. | 8. | 4 | 200. | 0.40000 | 2.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 | 232AB | 2. | 8. | 35. | 120. | 1 | 300. | 0.14500 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 | 233B | 3. | 12. | 3. | 12. | 4 | 50. | 0.20000 | 2.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 | 234B | 4. | 16. | 7. | 27. | 1 | 530. | 0.17200 | 0.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 | 235B | 4. | 16. | 11. | 38. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 | 236C | 1. | 4. | 1. | 4. | 4 | 190. | 0.34000 | 2.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 | 237BC | 1. | 4. | 12. | 42. | 1 | 400. | 0.16000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 | 238B | 0. | 0. | 12. | 41. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 | 239B | 0. | 0. | 12. | 41. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 | 240B | 0. | 0. | 12. | 41. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 | 241B | 0. | 0. | 12. | 41. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 | 242C | 34. | 111. | 34. | 111. | 1 | 300. | 0.11500 | 0.00 | 0.00 | 0. | 2 | 7 | A35 | 0.30 |
| 9 | 243C | 2. | 8. | 36. | 117. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 | 244D | 3. | 11. | 3. | 11. | 1 | 300. | 0.15000 | 0.00 | 0.00 | 0. | 2 | 6 | A35 | 0.30 |
| 9 | 245CD | 3. | 10. | 39. | 127. | 1 | 1100. | 0.10000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 | 246C | 7. | 21. | 46. | 137. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 8 | A35 | 0.30 |
| 9 | 247E | 5. | 15. | 5. | 15. | 1 | 300. | 0.14500 | 0.00 | 0.00 | 0. | 2 | 8 | A35 | 0.30 |
| 9 | 248CE | 5. | 15. | 51. | 152. | 1 | 300. | 0.12000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 | 249C | 12. | 42. | 63. | 176. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 6 | A35 | 0.30 |
| 9 | 250BC | 63. | 176. | 75. | 214. | 1 | 350. | 0.10000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 | 251B | 5. | 20. | 80. | 221. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 5 | A35 | 0.06 |
| 9 | 252AB | 80. | 221. | 115. | 334. | 1 | 2100. | 0.10800 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 | 253A | 0. | 0. | 115. | 309. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 | 254A | 0. | 0. | 115. | 309. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 | 255A | 0. | 0. | 115. | 309. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 | 256A | 0. | 0. | 115. | 309. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 | 257A | 0. | 0. | 115. | 309. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 | 258A | 33. | 85. | 148. | 386. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 12 | A35 | 0.16 |
| 9 | 259C | 6. | 23. | 6. | 23. | 1 | 200. | 0.21400 | 0.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 | 260AC | 6. | 22. | 154. | 393. | 2 | 950. | 0.06000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 | 261A | 7. | 20. | 161. | 401. | 4 | 90. | 0.11000 | 3.75 | 0.00 | 0. | 2 | 9 | A35 | 0.37 |
| 9 | 262A | 0. | 0. | 161. | 401. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 | 263A | 0. | 0. | 161. | 401. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 | 264B | 4. | 12. | 4. | 12. | 1 | 1000. | 0.15000 | 0.00 | 0.00 | 0. | 2 | 8 | A35 | 0.30 |
| 9 | 265C | 4. | 16. | 4. | 16. | 2 | 600. | 0.09000 | 0.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 | 266C | 13. | 46. | 17. | 60. | 1 | 1000. | 0.12000 | 0.00 | 0.00 | 0. | 2 | 6 | A35 | 0.30 |
| 9 | 267B | 17. | 55. | 21. | 63. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 7 | A35 | 0.30 |
| 9 | 268BC | 17. | 54. | 38. | 113. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 | 269D | 3. | 12. | 3. | 12. | 4 | 300. | 0.17000 | 2.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 | 270BD | 3. | 11. | 41. | 122. | 1 | 130. | 0.15500 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 | 271B | 1. | 4. | 42. | 123. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 | 272E | 8. | 24. | 8. | 24. | 1 | 170. | 0.21000 | 0.00 | 0.00 | 0. | 2 | 8 | A35 | 0.30 |

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT PROG FO601A

MODIFIED RATIONAL METHOD HYDROLOGY

RANCHO PALOS VERDES, LOS ANGELES 9 (LA9-50.DAT) STORM DAY 4

| LOCATION | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 273BE | 8. | 24. | 50. | 148. | 1 | 1000. | 0.11500 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 274B | 10. | 31. | 60. | 168. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 8 | A35 | 0.30 |
| 9 275B | 0. | 0. | 60. | 168. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 276B | 0. | 0. | 60. | 168. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 277B | 0. | 0. | 60. | 168. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 278B | 0. | 0. | 60. | 168. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 279C | 8. | 24. | 8. | 24. | 4 | 150. | 0.30000 | 2.00 | 0.00 | 0. | 2 | 8 | A35 | 0.30 |
| 9 280BC | 8. | 24. | 68. | 189. | 2 | 200. | 0.06500 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 281B | 3. | 12. | 71. | 194. | 4 | 520. | 0.10000 | 3.00 | 0.00 | 0. | 2 | 5 | A35 | 0.34 |
| 9 282AB | 71. | 194. | 232. | 574. | 4 | 250. | 0.04000 | 5.25 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 283A | 20. | 66. | 252. | 602. | 4 | 1000. | 0.03000 | 5.50 | 0.00 | 0. | 2 | 7 | A35 | 0.43 |
| 9 284A | 23. | 74. | 275. | 635. | 4 | 290. | 0.10000 | 4.50 | 0.00 | 0. | 13 | 8 | A35 | 0.53 |
| 9 285A | 0. | 0. | 275. | 635. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 13 | 99 | A35 | 0.00 |
| 9 286B | 37. | 111. | 37. | 111. | 4 | 170. | 0.03500 | 3.00 | 0.00 | 0. | 13 | 9 | A35 | 0.42 |
| 9 287B | 0. | 0. | 37. | 111. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 13 | 99 | A35 | 0.00 |

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT



MODIFIED RATIONAL METHOD HYDROLOGY

RANCHO PALOS VERDES, LOS ANGELES 10 (LA10-51.DAT)

STORM DAY 4

| LOCATION | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 288A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 289A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 290A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 291A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 292A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 293A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 294A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 295A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 296A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 297A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 298A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 299A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 300A | 5. | 16. | 5. | 16. | 5 | 1380. | 0.12000 | 1.00 | 0.00 | 0. | 2 | 7 | A35 | 0.30 |
| 9 301A | 43. | 84. | 48. | 99. | 5 | 800. | 0.06000 | 3.00 | 0.00 | 0. | 2 | 10 | A25 | 0.42 |
| 9 302A | 11. | 22. | 59. | 120. | 5 | 1100. | 0.05500 | 3.00 | 0.00 | 0. | 2 | 10 | A25 | 0.42 |
| 9 303B | 18. | 66. | 18. | 66. | 4 | 1600. | 0.03500 | 2.50 | 0.00 | 0. | 13 | 6 | A35 | 0.42 |
| 9 304B | 15. | 23. | 33. | 85. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 13 | 15 | A25 | 0.42 |
| 9 305C | 10. | 41. | 10. | 41. | 4 | 1600. | 0.04000 | 2.00 | 0.00 | 0. | 13 | 5 | A35 | 0.20 |
| 9 306D | 52. | 175. | 52. | 175. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 13 | 7 | A35 | 0.20 |
| 9 307E | 33. | 80. | 33. | 80. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 13 | 13 | A35 | 0.20 |
| 9 308DE | 33. | 80. | 85. | 255. | 4 | 160. | 0.00100 | 7.50 | 0.00 | 0. | 13 | 0 | A35 | 0.00 |
| 9 309CD | 85. | 254. | 95. | 289. | 4 | 250. | 0.00100 | 8.00 | 0.00 | 0. | 13 | 0 | A35 | 0.00 |
| 9 310C | 0. | 0. | 95. | 284. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 13 | 99 | A35 | 0.00 |
| 9 311C | 0. | 0. | 95. | 284. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 13 | 99 | A35 | 0.00 |
| 9 312C | 0. | 0. | 95. | 284. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 13 | 99 | A35 | 0.00 |
| 9 313C | 0. | 0. | 95. | 284. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 13 | 99 | A35 | 0.00 |
| 9 314C | 0. | 0. | 95. | 284. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 13 | 99 | A35 | 0.00 |
| 9 315C | 0. | 0. | 95. | 284. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 13 | 99 | A35 | 0.00 |
| 9 316D | 12. | 28. | 12. | 28. | 4 | 150. | 0.01600 | 2.00 | 0.00 | 0. | 13 | 14 | A35 | 0.20 |
| 9 317CD | 12. | 28. | 107. | 312. | 4 | 220. | 0.00300 | 6.75 | 0.00 | 0. | 13 | 0 | A35 | 0.00 |
| 9 318BC | 107. | 309. | 140. | 391. | 4 | 250. | 0.12000 | 3.75 | 0.00 | 0. | 13 | 0 | A25 | 0.00 |
| 9 319AB | 140. | 390. | 199. | 509. | 4 | 180. | 0.01000 | 6.50 | 0.00 | 0. | 13 | 0 | A35 | 0.00 |
| 9 320A | 6. | 13. | 205. | 519. | 4 | 400. | 0.02000 | 5.75 | 0.00 | 0. | 13 | 8 | A25 | 0.42 |
| 9 321D | 5. | 14. | 5. | 14. | 3 | 50. | 0.02000 | 0.00 | 0.00 | 0. | 13 | 5 | A25 | 0.42 |
| 9 322AD | 5. | 14. | 210. | 521. | 4 | 200. | 0.04000 | 5.00 | 0.00 | 0. | 13 | 0 | A25 | 0.00 |
| 9 323E | 42. | 115. | 42. | 115. | 4 | 250. | 0.00500 | 4.25 | 0.00 | 0. | 13 | 11 | A35 | 0.47 |
| 9 324AE | 42. | 115. | 252. | 630. | 4 | 100. | 0.07500 | 4.75 | 0.00 | 0. | 13 | 0 | A35 | 0.00 |
| 9 325A | 0. | 0. | 252. | 629. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 13 | 99 | A35 | 0.00 |
| 9 326A | 0. | 0. | 252. | 629. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 13 | 99 | A35 | 0.00 |
| 9 327A | 0. | 0. | 252. | 629. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 13 | 99 | A35 | 0.00 |
| 9 328A | 0. | 0. | 252. | 629. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 13 | 99 | A35 | 0.00 |
| 9 329A | 0. | 0. | 252. | 629. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 13 | 99 | A35 | 0.00 |
| 9 330A | 0. | 0. | 252. | 629. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 13 | 99 | A35 | 0.00 |
| 9 331B | 16. | 36. | 16. | 36. | 4 | 150. | 0.03000 | 2.00 | 0.00 | 0. | 13 | 15 | A35 | 0.20 |
| 9 332C | 7. | 20. | 7. | 20. | 4 | 120. | 0.08000 | 2.00 | 0.00 | 0. | 13 | 10 | A35 | 0.20 |
| 9 333D | 7. | 19. | 7. | 19. | 4 | 130. | 0.02000 | 2.00 | 0.00 | 0. | 13 | 11 | A35 | 0.20 |

RANCHO PALOS VERDES, LOS ANGELES 10 (LA10-S1.DAT) STORM DAY 4

| LOCATION | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 334E | 13. | 44. | 13. | 44. | 4 | 90. | 0.03000 | 2.25 | 0.00 | 0. | 13 | 7 | A35 | 0.42 |
| 9 335DE | 13. | 44. | 20. | 63. | 4 | 200. | 0.06000 | 2.25 | 0.00 | 0. | 13 | 0 | A35 | 0.00 |

# HYDROLOGY CALCULATIONS

## OCEAN SOUTH
## DRAINAGE AREA

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | 654A | 24. | 64. | 24. | 64. | 1 | 1200. | 0.17200 | 0.00 | 0.00 | 0. | 190 | 8 | A30 | 0.11 |
| 9 | 655A | 24. | 58. | 48. | 115. | 1 | 1500. | 0.16000 | 0.00 | 0.00 | 0. | 190 | 10 | A30 | 0.11 |
| 9 | 656A | 31. | 78. | 79. | 175. | 1 | 1050. | 0.16800 | 0.00 | 0.00 | 0. | 190 | 9 | A30 | 0.11 |
| 9 | 657A | 18. | 43. | 97. | 207. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 10 | A30 | 0.06 |
| 9 | 658A | 0. | 0. | 97. | 207. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 | 659A | 0. | 0. | 97. | 207. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 | 660A | 0. | 0. | 97. | 207. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 | 661A | 0. | 0. | 97. | 207. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 | 662A | 0. | 0. | 97. | 207. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 | 663B | 32. | 80. | 32. | 80. | 1 | 1200. | 0.19200 | 0.00 | 0.00 | 0. | 190 | 9 | A30 | 0.11 |
| 9 | 664B | 28. | 83. | 60. | 149. | 1 | 1500. | 0.12000 | 0.00 | 0.00 | 0. | 2 | 6 | A30 | 0.18 |
| 9 | 665B | 32. | 90. | 92. | 205. | 1 | 700. | 0.18800 | 0.00 | 0.00 | 0. | 190 | 7 | A30 | 0.06 |
| 9 | 666B | 0. | 0. | 92. | 203. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 | 667B | 0. | 0. | 92. | 203. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 | 668B | 0. | 0. | 92. | 203. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 | 669B | 0. | 0. | 92. | 203. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 | 670B | 0. | 0. | 92. | 203. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 | 671B | 0. | 0. | 92. | 203. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 | 672B | 0. | 0. | 92. | 203. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 | 673C | 17. | 52. | 17. | 52. | 1 | 1050. | 0.13500 | 0.00 | 0.00 | 0. | 190 | 6 | A30 | 0.11 |
| 9 | 674C | 28. | 83. | 45. | 121. | 1 | 1300. | 0.16000 | 0.00 | 0.00 | 0. | 2 | 6 | A30 | 0.17 |
| 9 | 675C | 31. | 68. | 76. | 177. | 2 | 1300. | 0.05000 | 0.00 | 0.00 | 0. | 2 | 11 | A30 | 0.17 |
| 9 | 676C | 39. | 110. | 115. | 243. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 7 | A30 | 0.11 |
| 9 | 677D | 58. | 134. | 58. | 134. | 2 | 2800. | 0.08000 | 0.00 | 0.00 | 0. | 2 | 10 | A30 | 0.19 |
| 9 | 678CD | 58. | 124. | 173. | 359. | 2 | 1100. | 0.08000 | 0.00 | 0.00 | 0. | 2 | 0 | A30 | 0.00 |
| 9 | 679BC | 173. | 356. | 265. | 555. | 1 | 750. | 0.18200 | 0.00 | 0.00 | 0. | 2 | 0 | A30 | 0.00 |
| 9 | 680B | 59. | 128. | 324. | 668. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 12 | A30 | 0.06 |
| 9 | 681B | 0. | 0. | 324. | 668. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 | 682AB | 324. | 668. | 421. | 875. | 2 | 1400. | 0.07000 | 0.00 | 0.00 | 0. | 2 | 0 | A30 | 0.00 |
| 9 | 683A | 28. | 79. | 449. | 898. | 2 | 470. | 0.02000 | 0.00 | 0.00 | 0. | 190 | 7 | A30 | 0.00 |
| 9 | 684A | 17. | 40. | 466. | 922. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 10 | A30 | 0.00 |
| 9 | 685D | 40. | 83. | 40. | 83. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 13 | A30 | 0.05 |
| 9 | 686AD | 40. | 83. | 506. | 996. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 0 | A30 | 0.00 |
| 9 | 687E | 37. | 97. | 37. | 97. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 8 | A30 | 0.00 |
| 9 | 688AE | 37. | 97. | 543. | 1048. | 4 | 180. | 0.03000 | 6.75 | 0.00 | 0. | 2 | 0 | A30 | 0.00 |
| 9 | 689A | 0. | 0. | 543. | 1046. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 | 690A | 0. | 0. | 543. | 1046. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 | 691A | 0. | 0. | 543. | 1046. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 | 692B | 40. | 74. | 40. | 74. | 4 | 100. | 0.01000 | 3.25 | 0.00 | 0. | 191 | 13 | A30 | 0.00 |
| 9 | 693B | 9. | 23. | 49. | 96. | 4 | 140. | 0.03000 | 2.75 | 0.00 | 0. | 191 | 7 | A30 | 0.00 |

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT



MODIFIED RATIONAL METHOD HYDROLOGY

RANCHO PALOS VERDES, OCEAN SOUTH 10 (OS10R-51.DAT)

STORM DAY 4

| LOCATION | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 724A | 9. | 25. | 9. | 25. | 2 | 1500. | 0.05000 | 0.00 | 0.00 | 0. | 2 | 7 | A30 | 0.42 |
| 9 725A | 52. | 112. | 61. | 130. | 2 | 100. | 0.00600 | 0.00 | 0.00 | 0. | 4 | 12 | A30 | 0.70 |
| 9 726A | 0. | 0. | 61. | 130. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 1 | A30 | 0.00 |
| 9 727B | 17. | 35. | 17. | 35. | 4 | 150. | 0.02000 | 2.25 | 0.00 | 0. | 4 | 10 | A30 | 0.30 |
| 9 728AB | 17. | 35. | 78. | 164. | 2 | 1600. | 0.00600 | 0.00 | 0.00 | 0. | 4 | 0 | A30 | 0.00 |
| 9 729A | 25. | 60. | 103. | 157. | 4 | 600. | 0.03000 | 3.50 | 0.00 | 0. | 191 | 9 | A30 | 0.39 |
| 9 730C | 10. | 10. | 10. | 10. | 4 | 300. | 0.19000 | 2.00 | 0.00 | 0. | 4 | 16 | A21 | 0.30 |
| 9 731AC | 10. | 10. | 113. | 165. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 0 | A30 | 0.00 |
| 9 732A | 12. | 26. | 125. | 177. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 9 | A30 | 0.30 |
| 9 733D | 4. | 11. | 4. | 11. | 1 | 630. | 0.20800 | 0.00 | 0.00 | 0. | 4 | 5 | A30 | 0.00 |
| 9 734AD | 4. | 9. | 129. | 184. | 1 | 770. | 0.17200 | 0.00 | 0.00 | 0. | 4 | 0 | A30 | 0.00 |
| 9 735A | 0. | 0. | 129. | 183. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 736A | 0. | 0. | 129. | 183. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 737A | 0. | 0. | 129. | 183. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 738A | 0. | 0. | 129. | 183. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 739A | 0. | 0. | 129. | 183. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 740A | 12. | 31. | 141. | 198. | 1 | 1200. | 0.14000 | 0.00 | 0.00 | 0. | 191 | 7 | A30 | 0.13 |
| 9 741A | 31. | 80. | 172. | 246. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 191 | 7 | A30 | 0.10 |
| 9 742B | 44. | 71. | 44. | 71. | 4 | 800. | 0.02000 | 2.75 | 0.00 | 0. | 4 | 8 | A21 | 0.42 |
| 9 743C | 10. | 14. | 10. | 14. | 4 | 200. | 0.07000 | 2.00 | 0.00 | 0. | 4 | 10 | A21 | 0.42 |
| 9 744BC | 10. | 14. | 54. | 83. | 1 | 840. | 0.17200 | 0.00 | 0.00 | 0. | 4 | 0 | A21 | 0.00 |
| 9 745B | 0. | 0. | 54. | 82. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 746B | 0. | 0. | 54. | 82. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 747B | 0. | 0. | 54. | 82. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 748B | 0. | 0. | 54. | 82. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 749B | 0. | 0. | 54. | 82. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 750B | 7. | 16. | 61. | 95. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 8 | A30 | 0.30 |
| 9 751D | 15. | 31. | 15. | 31. | 4 | 300. | 0.57000 | 2.00 | 0.00 | 0. | 4 | 10 | A30 | 0.30 |
| 9 752BD | 15. | 31. | 76. | 124. | 1 | 900. | 0.18000 | 0.00 | 0.00 | 0. | 4 | 0 | A30 | 0.00 |
| 9 753B | 29. | 66. | 105. | 180. | 1 | 1150. | 0.14500 | 0.00 | 0.00 | 0. | 191 | 9 | A30 | 0.06 |
| 9 754B | 28. | 64. | 133. | 221. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 191 | 9 | A30 | 0.06 |
| 9 755AB | 133. | 221. | 305. | 464. | 1 | 1300. | 0.10000 | 0.00 | 0.00 | 0. | 4 | 0 | A30 | 0.00 |
| 9 756A | 31. | 62. | 336. | 504. | 2 | 400. | 0.08000 | 0.00 | 0.00 | 0. | 4 | 10 | A30 | 0.21 |
| 9 757A | 8. | 20. | 344. | 512. | 1 | 300. | 0.10000 | 0.00 | 0.00 | 0. | 4 | 7 | A30 | 0.28 |
| 9 758A | 2. | 6. | 346. | 511. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 5 | A30 | 0.21 |
| 9 759C | 23. | 48. | 23. | 48. | 4 | 150. | 0.09000 | 2.00 | 0.00 | 0. | 4 | 10 | A30 | 0.30 |
| 9 760C | 15. | 16. | 38. | 63. | 4 | 300. | 0.28000 | 2.00 | 0.00 | 0. | 4 | 16 | A21 | 0.30 |
| 9 761D | 2. | 6. | 2. | 6. | 4 | 350. | 0.23000 | 2.00 | 0.00 | 0. | 4 | 5 | A30 | 0.30 |
| 9 762CD | 2. | 6. | 40. | 69. | 1 | 1750. | 0.19200 | 0.00 | 0.00 | 0. | 4 | 0 | A30 | 0.00 |
| 9 763C | 18. | 41. | 58. | 99. | 1 | 430. | 0.13500 | 0.00 | 0.00 | 0. | 191 | 9 | A30 | 0.09 |
| 9 764C | 26. | 54. | 84. | 145. | 1 | 1000. | 0.10800 | 0.00 | 0.00 | 0. | 4 | 9 | A30 | 0.16 |
| 9 765C | 51. | 131. | 135. | 248. | 2 | 430. | 0.08000 | 0.00 | 0.00 | 0. | 2 | 8 | A30 | 0.21 |
| 9 766C | 4. | 12. | 139. | 251. | 1 | 170. | 0.13500 | 0.00 | 0.00 | 0. | 4 | 5 | A30 | 0.30 |
| 9 767AC | 139. | 250. | 485. | 740. | 2 | 1100. | 0.07000 | 0.00 | 0.00 | 0. | 4 | 0 | A30 | 0.00 |
| 9 768A | 0. | 0. | 485. | 736. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 769A | 0. | 0. | 485. | 736. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT PROG FO601A

MODIFIED RATIONAL METHOD HYDROLOGY

RANCHO PALOS VERDES, OCEAN SOUTH 10 (OS10R-51.DAT) STORM DAY 4

| LOCATION | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 770A | 0. | 0. | 485. | 736. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 771A | 22. | 57. | 507. | 751. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 6 | A30 | 0.21 |
| 9 772D | 25. | 66. | 25. | 66. | 2 | 620. | 0.09000 | 0.00 | 0.00 | 0. | 4 | 6 | A30 | 0.26 |
| 9 773AD | 25. | 64. | 532. | 785. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 0 | A30 | 0.00 |
| 9 774E | 6. | 18. | 6. | 18. | 3 | 1500. | 0.02000 | 0.00 | 0.00 | 0. | 4 | 5 | A30 | 0.23 |
| 9 775E | 12. | 22. | 18. | 32. | 1 | 650. | 0.14000 | 0.00 | 0.00 | 0. | 4 | 12 | A30 | 0.29 |
| 9 776AE | 18. | 32. | 550. | 815. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 0 | A30 | 0.00 |
| 9 777A | 14. | 30. | 564. | 838. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 9 | A30 | 0.21 |
| 9 778B | 49. | 114. | 49. | 114. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 10 | A30 | 0.21 |
| 9 779C | 19. | 36. | 19. | 36. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 11 | A30 | 0.21 |
| 9 780BC | 19. | 36. | 68. | 150. | 3 | 1200. | 0.03000 | 0.00 | 0.00 | 0. | 4 | 0 | A30 | 0.00 |
| 9 781B | 15. | 31. | 83. | 172. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 10 | A30 | 0.30 |
| 9 782D | 13. | 26. | 13. | 26. | 3 | 850. | 0.03000 | 0.00 | 0.00 | 0. | 4 | 10 | A30 | 0.21 |
| 9 783BD | 13. | 25. | 96. | 196. | 3 | 550. | 0.06000 | 0.00 | 0.00 | 0. | 4 | 0 | A30 | 0.00 |
| 9 784B | 6. | 16. | 102. | 202. | 3 | 900. | 0.09000 | 0.00 | 0.00 | 0. | 4 | 6 | A30 | 0.27 |
| 9 785B | 9. | 23. | 111. | 206. | 1 | 700. | 0.10000 | 0.00 | 0.00 | 0. | 4 | 6 | A30 | 0.21 |
| 9 786AB | 111. | 204. | 675. | 1033. | 4 | 600. | 0.05000 | 6.00 | 0.00 | 0. | 4 | 0 | A30 | 0.00 |
| 9 787A | 0. | 0. | 675. | 1032. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 788A | 0. | 0. | 675. | 1032. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 789A | 0. | 0. | 675. | 1032. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 790A | 0. | 0. | 675. | 1032. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 791A | 0. | 0. | 675. | 1032. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 792A | 50. | 69. | 725. | 1099. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 19 | A30 | 0.18 |
| 9 793B | 12. | 24. | 12. | 24. | 4 | 157. | 0.02000 | 2.00 | 0.00 | 0. | 4 | 11 | A30 | 0.39 |
| 9 794AB | 12. | 24. | 737. | 1121. | 4 | 100. | 0.02000 | 7.50 | 0.00 | 0. | 4 | 0 | A30 | 0.00 |

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT



MODIFIED RATIONAL METHOD HYDROLOGY

RANCHO PALOS VERDES, OCEAN SOUTH 11 COMBO (OS11-51.DAT) STORM DAY 4

| LOCATION | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 794A | 13. | 25. | 13. | 25. | 1 | 1600. | 0.20500 | 0.00 | 0.00 | 0. | 4 | 12 | A30 | 0.42 |
| 9 795A | 21. | 53. | 34. | 71. | 1 | 1420. | 0.11500 | 0.00 | 0.00 | 0. | 2 | 9 | A30 | 0.46 |
| 9 796A | 18. | 40. | 52. | 102. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 11 | A30 | 0.21 |
| 9 797B | 16. | 37. | 16. | 37. | 1 | 1150. | 0.14500 | 0.00 | 0.00 | 0. | 2 | 10 | A30 | 0.17 |
| 9 798B | 13. | 29. | 29. | 61. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 11 | A30 | 0.21 |
| 9 799AB | 29. | 61. | 81. | 162. | 4 | 520. | 0.13000 | 2.75 | 0.00 | 0. | 2 | 0 | A30 | 0.00 |
| 9 800A | 0. | 0. | 81. | 162. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 801A | 0. | 0. | 81. | 162. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 802A | 0. | 0. | 81. | 162. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 803A | 0. | 0. | 81. | 162. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 804A | 0. | 0. | 81. | 162. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 805A | 4. | 13. | 85. | 165. | 4 | 310. | 0.08000 | 3.00 | 0.00 | 0. | 2 | 5 | A30 | 0.40 |
| 9 806A | 2. | 5. | 87. | 167. | 1 | 380. | 0.15000 | 0.00 | 0.00 | 0. | 2 | 5 | A21 | 0.42 |
| 9 807A | 3. | 7. | 90. | 168. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 5 | A21 | 0.13 |
| 9 808B | 46. | 112. | 46. | 112. | 1 | 600. | 0.12000 | 0.00 | 0.00 | 0. | 2 | 9 | A30 | 0.22 |
| 9 809AB | 46. | 110. | 136. | 274. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 0 | A30 | 0.00 |
| 9 810A | 0. | 0. | 136. | 274. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 811A | 0. | 0. | 136. | 274. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 812A | 0. | 0. | 136. | 274. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 813C | 9. | 14. | 9. | 14. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 10 | A21 | 0.30 |
| 9 814D | 23. | 31. | 23. | 31. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 10 | A21 | 0.30 |

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT



MODIFIED RATIONAL METHOD HYDROLOGY

RANCHO PALOS VERDES, OCEAN SOUTH 12 COMBO (OS12-51.DAT)

STORM DAY 4

| LOCATION | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 816A | 20. | 34. | 20. | 34. | 4 | 120. | 0.00800 | 2.50 | 0.00 | 0. | 4 | 7 | A21 | 0.42 |
| 9 817A | 23. | 37. | 43. | 71. | 4 | 400. | 0.05000 | 2.25 | 0.00 | 0. | 4 | 8 | A21 | 0.42 |
| 9 818A | 11. | 23. | 54. | 93. | 4 | 3100. | 0.07000 | 2.50 | 0.00 | 0. | 4 | 10 | A30 | 0.30 |
| 9 819A | 33. | 50. | 87. | 128. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 8 | A21 | 0.27 |
| 9 820A | 0. | 0. | 87. | 128. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A21 | 0.00 |
| 9 821A | 0. | 0. | 87. | 128. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A21 | 0.00 |
| 9 822A | 0. | 0. | 87. | 128. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A21 | 0.00 |
| 9 823A | 0. | 0. | 87. | 128. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A21 | 0.00 |
| 9 824A | 0. | 0. | 87. | 128. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A21 | 0.00 |
| 9 825B | 19. | 26. | 19. | 26. | 4 | 700. | 0.04000 | 2.00 | 0.00 | 0. | 4 | 11 | A21 | 0.42 |
| 9 826B | 28. | 38. | 47. | 64. | 4 | 1450. | 0.04000 | 2.25 | 0.00 | 0. | 4 | 11 | A21 | 0.42 |
| 9 827B | 19. | 44. | 66. | 102. | 4 | 510. | 0.28000 | 2.00 | 0.00 | 0. | 4 | 8 | A30 | 0.30 |
| 9 828B | 0. | 0. | 66. | 101. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A21 | 0.00 |
| 9 829AB | 66. | 101. | 153. | 229. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 0 | A21 | 0.00 |
| 9 830C | 14. | 25. | 14. | 25. | 1 | 400. | 0.19200 | 0.00 | 0.00 | 0. | 4 | 13 | A30 | 0.29 |
| 9 831AC | 14. | 25. | 167. | 254. | 1 | 650. | 0.16500 | 0.00 | 0.00 | 0. | 4 | 0 | A21 | 0.00 |
| 9 832A | 0. | 0. | 167. | 251. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A21 | 0.00 |
| 9 833A | 0. | 0. | 167. | 251. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A21 | 0.00 |
| 9 834A | 0. | 0. | 167. | 251. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A21 | 0.00 |
| 9 835A | 0. | 0. | 167. | 251. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A21 | 0.00 |
| 9 836A | 0. | 0. | 167. | 251. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A21 | 0.00 |
| 9 837A | 9. | 31. | 176. | 264. | 1 | 1000. | 0.18000 | 0.00 | 0.00 | 0. | 190 | 5 | A30 | 0.21 |
| 9 838A | 20. | 50. | 196. | 301. | 1 | 1000. | 0.12000 | 0.00 | 0.00 | 0. | 190 | 9 | A30 | 0.08 |
| 9 839A | 19. | 46. | 215. | 328. | 1 | 1100. | 0.10000 | 0.00 | 0.00 | 0. | 2 | 9 | A30 | 0.14 |
| 9 840A | 18. | 49. | 233. | 336. | 4 | 450. | 0.05000 | 4.00 | 0.00 | 0. | 2 | 7 | A30 | 0.23 |
| 9 841D | 15. | 41. | 15. | 41. | 1 | 700. | 0.17500 | 0.00 | 0.00 | 0. | 2 | 7 | A30 | 0.15 |
| 9 842D | 9. | 27. | 24. | 63. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 6 | A30 | 0.21 |
| 9 843E | 15. | 41. | 15. | 41. | 1 | 650. | 0.18200 | 0.00 | 0.00 | 0. | 2 | 7 | A30 | 0.13 |
| 9 844DE | 15. | 40. | 39. | 102. | 1 | 750. | 0.14500 | 0.00 | 0.00 | 0. | 2 | 0 | A30 | 0.00 |
| 9 845D | 16. | 41. | 55. | 138. | 4 | 700. | 0.08000 | 2.75 | 0.00 | 0. | 2 | 8 | A30 | 0.21 |
| 9 846D | 0. | 0. | 55. | 135. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A21 | 0.00 |
| 9 847D | 0. | 0. | 55. | 135. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A21 | 0.00 |
| 9 848D | 0. | 0. | 55. | 135. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A21 | 0.00 |
| 9 849D | 0. | 0. | 55. | 135. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A21 | 0.00 |
| 9 850D | 0. | 0. | 55. | 135. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A21 | 0.00 |
| 9 851D | 18. | 55. | 73. | 173. | 4 | 80. | 0.06000 | 3.00 | 0.00 | 0. | 2 | 6 | A30 | 0.42 |
| 9 852AD | 73. | 173. | 306. | 460. | 4 | 950. | 0.07000 | 4.25 | 0.00 | 0. | 2 | 0 | A30 | 0.00 |
| 9 853A | 14. | 32. | 320. | 487. | 4 | 80. | 0.05000 | 4.75 | 0.00 | 0. | 2 | 11 | A30 | 0.42 |
| 9 854B | 29. | 63. | 29. | 63. | 4 | 100. | 0.80000 | 2.00 | 0.00 | 0. | 2 | 12 | A30 | 0.39 |

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT



MODIFIED RATIONAL METHOD HYDROLOGY

RANCHO PALOS VERDES, OCEAN SOUTH 13 COMBO (OS13-51.DAT) STORM DAY 4

| LOCATION | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 860A | 15. | 18. | 15. | 18. | 4 | 100. | 0.01000 | 2.00 | 0.00 | 0. | 4 | 13 | A21 | 0.30 |
| 9 861A | 42. | 60. | 57. | 78. | 4 | 400. | 0.05000 | 2.50 | 0.00 | 0. | 4 | 9 | A21 | 0.30 |
| 9 862B | 16. | 30. | 16. | 30. | 4 | 200. | 0.02000 | 2.00 | 0.00 | 0. | 4 | 12 | A30 | 0.30 |
| 9 863AB | 16. | 30. | 73. | 107. | 4 | 1750. | 0.12000 | 2.25 | 0.00 | 0. | 4 | 0 | A21 | 0.00 |
| 9 864A | 1. | 2. | 74. | 107. | 1 | 1250. | 0.16500 | 0.00 | 0.00 | 0. | 4 | 5 | A21 | 0.42 |
| 9 865A | 27. | 54. | 101. | 150. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 10 | A30 | 0.22 |
| 9 866A | 0. | 0. | 101. | 150. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A21 | 0.00 |
| 9 867A | 0. | 0. | 101. | 150. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A21 | 0.00 |
| 9 868A | 0. | 0. | 101. | 150. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A21 | 0.00 |
| 9 869A | 0. | 0. | 101. | 150. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A21 | 0.00 |
| 9 870C | 4. | 6. | 4. | 6. | 2 | 900. | 0.11000 | 0.00 | 0.00 | 0. | 4 | 9 | A21 | 0.30 |
| 9 871C | 9. | 19. | 13. | 23. | 4 | 700. | 0.08000 | 2.00 | 0.00 | 0. | 4 | 9 | A30 | 0.15 |
| 9 872C | 9. | 17. | 22. | 39. | 1 | 550. | 0.20100 | 0.00 | 0.00 | 0. | 191 | 7 | A21 | 0.42 |
| 9 873C | 5. | 9. | 27. | 44. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 5 | A21 | 0.14 |
| 9 874D | 19. | 44. | 19. | 44. | 1 | 700. | 0.18000 | 0.00 | 0.00 | 0. | 4 | 8 | A30 | 0.30 |
| 9 875CD | 19. | 43. | 46. | 87. | 1 | 980. | 0.12000 | 0.00 | 0.00 | 0. | 4 | 0 | A30 | 0.00 |
| 9 876AC | 46. | 83. | 147. | 233. | 4 | 720. | 0.09000 | 3.25 | 0.00 | 0. | 2 | 0 | A30 | 0.00 |
| 9 877E | 6. | 15. | 6. | 15. | 3 | 1550. | 0.05000 | 0.00 | 0.00 | 0. | 2 | 8 | A30 | 0.26 |
| 9 878E | 16. | 36. | 22. | 47. | 4 | 80. | 0.04000 | 2.00 | 0.00 | 0. | 2 | 11 | A30 | 0.42 |
| 9 879AE | 22. | 47. | 169. | 276. | 4 | 370. | 0.02000 | 4.50 | 0.00 | 0. | 2 | 0 | A30 | 0.00 |
| 9 880A | 0. | 0. | 169. | 275. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A21 | 0.00 |
| 9 881A | 0. | 0. | 169. | 275. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A21 | 0.00 |
| 9 882A | 0. | 0. | 169. | 275. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A21 | 0.00 |
| 9 883A | 0. | 0. | 169. | 275. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A21 | 0.00 |
| 9 884A | 0. | 0. | 169. | 275. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A21 | 0.00 |
| 9 885A | 6. | 17. | 175. | 282. | 4 | 180. | 0.07000 | 3.50 | 0.00 | 0. | 2 | 7 | A30 | 0.42 |
| 9 886B | 2. | 5. | 2. | 5. | 4 | 370. | 0.02000 | 2.00 | 0.00 | 0. | 2 | 8 | A30 | 0.42 |
| 9 887AB | 2. | 5. | 177. | 285. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 0 | A30 | 0.00 |
| 9 888A | 4. | 12. | 181. | 289. | 4 | 210. | 0.04000 | 4.00 | 0.00 | 0. | 2 | 6 | A30 | 0.42 |
| 9 889C | 19. | 41. | 19. | 41. | 4 | 170. | 0.04000 | 2.00 | 0.00 | 0. | 2 | 12 | A30 | 0.42 |
| 9 890AC | 19. | 41. | 200. | 326. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 0 | A30 | 0.00 |

RANCHO PALOS VERDES, OCEAN SOUTH 14 COMBO (OS14-51.DAT) STORM DAY 4

| LOCATION | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 895A | 27. | 69. | 27. | 69. | 4 | 950. | 0.10000 | 2.00 | 0.00 | 0. | 4 | 6 | A30 | 0.15 |
| 9 896A | 16. | 21. | 43. | 88. | 4 | 1050. | 0.17500 | 2.00 | 0.00 | 0. | 4 | 12 | A21 | 0.42 |
| 9 897A | 20. | 47. | 63. | 132. | 4 | 200. | 0.11000 | 2.50 | 0.00 | 0. | 2 | 10 | A30 | 0.25 |
| 9 898A | 0. | 0. | 63. | 131. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A21 | 0.00 |
| 9 899A | 0. | 0. | 63. | 131. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A21 | 0.00 |
| 9 900A | 0. | 0. | 63. | 131. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A21 | 0.00 |
| 9 901B | 12. | 29. | 12. | 29. | 2 | 450. | 0.01000 | 0.00 | 0.00 | 0. | 2 | 10 | A30 | 0.42 |
| 9 902B | 13. | 31. | 25. | 56. | 2 | 350. | 0.08000 | 0.00 | 0.00 | 0. | 2 | 10 | A30 | 0.46 |
| 9 903B | 1. | 2. | 26. | 57. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 5 | A21 | 0.29 |
| 9 904B | 0. | 0. | 26. | 57. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A21 | 0.00 |
| 9 905C | 12. | 21. | 12. | 21. | 4 | 400. | 0.21000 | 2.00 | 0.00 | 0. | 4 | 7 | A21 | 0.42 |
| 9 906C | 6. | 10. | 18. | 30. | 1 | 1750. | 0.12800 | 0.00 | 0.00 | 0. | 4 | 8 | A21 | 0.42 |
| 9 907C | 26. | 61. | 44. | 79. | 4 | 170. | 0.12000 | 2.00 | 0.00 | 0. | 190 | 11 | A30 | 0.35 |
| 9 908D | 25. | 41. | 25. | 41. | 1 | 1300. | 0.14000 | 0.00 | 0.00 | 0. | 4 | 13 | A30 | 0.11 |
| 9 909D | 20. | 46. | 45. | 81. | 4 | 200. | 0.10000 | 2.25 | 0.00 | 0. | 190 | 11 | A30 | 0.18 |
| 9 910D | 0. | 0. | 45. | 81. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A21 | 0.00 |
| 9 911D | 0. | 0. | 45. | 81. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A21 | 0.00 |
| 9 912D | 0. | 0. | 45. | 81. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A21 | 0.00 |
| 9 913E | 25. | 40. | 25. | 40. | 4 | 200. | 0.18000 | 2.00 | 0.00 | 0. | 190 | 11 | A21 | 0.36 |

RANCHO PALOS VERDES, OCEAN SOUTH 1 (OS1-50.DAT) STORM DAY 4

| LOCATION | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 501A | 7. | 18. | 7. | 18. | 2 | 380. | 0.07000 | 0.00 | 0.00 | 0. | 190 | 8 | A30 | 0.00 |
| 9 502A | 2. | 6. | 9. | 24. | 1 | 510. | 0.12000 | 0.00 | 0.00 | 0. | 190 | 7 | A30 | 0.00 |
| 9 503A | 3. | 10. | 12. | 29. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 5 | A30 | 0.00 |
| 9 504B | 2. | 7. | 2. | 7. | 1 | 530. | 0.14000 | 0.00 | 0.00 | 0. | 190 | 5 | A30 | 0.00 |
| 9 505AB | 2. | 6. | 14. | 34. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 0 | A30 | 0.00 |
| 9 506A | 0. | 0. | 14. | 34. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 99 | A30 | 0.00 |
| 9 507A | 0. | 0. | 14. | 34. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 99 | A30 | 0.00 |
| 9 508A | 0. | 0. | 14. | 34. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 99 | A30 | 0.00 |
| 9 509A | 0. | 0. | 14. | 34. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 99 | A30 | 0.00 |
| 9 510C | 10. | 28. | 10. | 28. | 1 | 620. | 0.19700 | 0.00 | 0.00 | 0. | 190 | 7 | A30 | 0.11 |
| 9 511C | 5. | 14. | 15. | 41. | 1 | 500. | 0.16500 | 0.00 | 0.00 | 0. | 190 | 7 | A30 | 0.00 |
| 9 512C | 3. | 8. | 18. | 47. | 4 | 130. | 0.46000 | 2.00 | 0.00 | 0. | 190 | 7 | A30 | 0.00 |
| 9 513D | 3. | 10. | 3. | 10. | 4 | 50. | 0.50000 | 2.00 | 0.00 | 0. | 190 | 5 | A30 | 0.00 |
| 9 514D | 4. | 14. | 7. | 24. | 4 | 100. | 0.23000 | 2.00 | 0.00 | 0. | 190 | 5 | A30 | 0.00 |
| 9 515E | 5. | 17. | 5. | 17. | 1 | 230. | 0.22200 | 0.00 | 0.00 | 0. | 190 | 5 | A30 | 0.00 |
| 9 516E | 5. | 11. | 10. | 27. | 4 | 130. | 0.35000 | 2.00 | 0.00 | 0. | 190 | 12 | A30 | 0.00 |
| 9 517B | 1. | 2. | 1. | 2. | 4 | 50. | 0.66000 | 2.00 | 0.00 | 0. | 190 | 11 | A30 | 0.21 |

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT



MODIFIED RATIONAL METHOD HYDROLOGY

RANCHO PALOS VERDES, OCEAN SOUTH 2 (OS2-50.DAT)

STORM DAY 4

| LOCATION | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 518A | 14. | 47. | 14. | 47. | 1 | 200. | 0.18800 | 0.00 | 0.00 | 0. | 190 | 5 | A30 | 0.00 |
| 9 519A | 3. | 7. | 17. | 52. | 1 | 550. | 0.12000 | 0.00 | 0.00 | 0. | 190 | 10 | A30 | 0.00 |
| 9 520A | 11. | 30. | 28. | 79. | 4 | 730. | 0.13000 | 2.00 | 0.00 | 0. | 2 | 7 | A30 | 0.21 |
| 9 521A | 0. | 0. | 28. | 77. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 522A | 0. | 0. | 28. | 77. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 523A | 0. | 0. | 28. | 77. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT



MODIFIED RATIONAL METHOD HYDROLOGY

RANCHO PALOS VERDES, OCEAN SOUTH 3 COMBO (OS3-51.DAT)

STORM DAY 4

| LOCATION | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 524A | 14. | 43. | 14. | 43. | 4 | 320. | 0.01000 | 2.50 | 0.00 | 0. | 2 | 6 | A30 | 0.45 |
| 9 525A | 3. | 9. | 17. | 51. | 4 | 570. | 0.28000 | 2.00 | 0.00 | 0. | 2 | 6 | A30 | 0.42 |
| 9 526A | 0. | 0. | 17. | 50. | 1 | 870. | 0.18500 | 0.00 | 0.00 | 0. | 2 | 5 | A21 | 0.00 |
| 9 527A | 13. | 30. | 30. | 65. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 5 | A21 | 0.05 |
| 9 528B | 6. | 13. | 6. | 13. | 1 | 1070. | 0.20300 | 0.00 | 0.00 | 0. | 2 | 5 | A21 | 0.21 |
| 9 529AB | 6. | 11. | 36. | 75. | 4 | 50. | 0.02000 | 2.75 | 0.00 | 0. | 2 | 0 | A21 | 0.00 |
| 9 530A | 0. | 0. | 36. | 75. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A21 | 0.00 |
| 9 531A | 0. | 0. | 36. | 75. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A21 | 0.00 |
| 9 532A | 0. | 0. | 36. | 75. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A21 | 0.00 |
| 9 533A | 0. | 0. | 36. | 75. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A21 | 0.00 |
| 9 534C | 8. | 14. | 8. | 14. | 4 | 270. | 0.05000 | 2.00 | 0.00 | 0. | 190 | 8 | A21 | 0.00 |
| 9 535AC | 8. | 14. | 44. | 89. | 1 | 720. | 0.14500 | 0.00 | 0.00 | 0. | 2 | 0 | A30 | 0.00 |
| 9 536A | 12. | 22. | 56. | 104. | 4 | 650. | 0.08000 | 2.50 | 0.00 | 0. | 2 | 7 | A21 | 0.21 |
| 9 537A | 1. | 2. | 57. | 105. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 5 | A21 | 0.21 |
| 9 538D | 12. | 25. | 12. | 25. | 2 | 730. | 0.09000 | 0.00 | 0.00 | 0. | 2 | 6 | A21 | 0.42 |
| 9 539D | 8. | 21. | 20. | 45. | 4 | 650. | 0.22000 | 2.00 | 0.00 | 0. | 2 | 8 | A30 | 0.45 |
| 9 540D | 9. | 20. | 29. | 65. | 1 | 1020. | 0.19200 | 0.00 | 0.00 | 0. | 2 | 11 | A30 | 0.42 |
| 9 541D | 0. | 0. | 29. | 63. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 542D | 0. | 0. | 29. | 63. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A21 | 0.00 |
| 9 543D | 0. | 0. | 29. | 63. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A21 | 0.00 |
| 9 544D | 10. | 34. | 39. | 80. | 1 | 1000. | 0.12800 | 0.00 | 0.00 | 0. | 190 | 5 | A30 | 0.08 |
| 9 545D | 13. | 24. | 52. | 94. | 1 | 370. | 0.10000 | 0.00 | 0.00 | 0. | 2 | 7 | A21 | 0.21 |
| 9 546AD | 52. | 93. | 109. | 197. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 0 | A21 | 0.00 |

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT



MODIFIED RATIONAL METHOD HYDROLOGY

RANCHO PALOS VERDES, OCEAN SOUTH 4 (OS4-50.DAT)

STORM DAY 4

| LOCATION | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 547A | 10. | 33. | 10. | 33. | 1 | 780. | 0.15500 | 0.00 | 0.00 | 0. | 2 | 5 | A30 | 0.13 |
| 9 548A | 6. | 20. | 16. | 43. | 1 | 520. | 0.10300 | 0.00 | 0.00 | 0. | 2 | 5 | A30 | 0.21 |
| 9 549A | 4. | 13. | 20. | 50. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 5 | A30 | 0.21 |
| 9 550B | 14. | 38. | 14. | 38. | 1 | 550. | 0.22500 | 0.00 | 0.00 | 0. | 2 | 7 | A30 | 0.23 |
| 9 551B | 8. | 22. | 22. | 60. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 7 | A30 | 0.21 |
| 9 552C | 2. | 5. | 2. | 5. | 1 | 550. | 0.14000 | 0.00 | 0.00 | 0. | 2 | 8 | A30 | 0.21 |
| 9 553BC | 2. | 5. | 24. | 64. | 1 | 540. | 0.10000 | 0.00 | 0.00 | 0. | 2 | 0 | A30 | 0.00 |
| 9 554AB | 24. | 61. | 44. | 111. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 0 | A30 | 0.00 |
| 9 555A | 0. | 0. | 44. | 111. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |

RANCHO PALOS VERDES, OCEAN SOUTH 5 (OS5-51.DAT)

| LOCATION | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | STORM DAY 4 RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 602B | 0. | 0. | 4. | 7. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A21 | 0.00 |

RANCHO PALOS VERDES, OCEAN SOUTH 6 (OS6-51.DAT) STORM DAY 4

| LOCATION | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 603A | 19. | 39. | 19. | 39. | 4 | 400. | 0.24000 | 2.00 | 0.00 | 0. | 190 | 6 | A21 | 0.00 |
| 9 604A | 7. | 9. | 26. | 49. | 4 | 800. | 0.11000 | 2.00 | 0.00 | 0. | 2 | 13 | A21 | 0.15 |
| 9 605A | 7. | 15. | 33. | 61. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 6 | A21 | 0.43 |
| 9 606B | 14. | 32. | 14. | 32. | 4 | 700. | 0.01000 | 2.25 | 0.00 | 0. | 2 | 10 | A30 | 0.21 |
| 9 607AB | 14. | 32. | 47. | 90. | 4 | 430. | 0.21000 | 2.00 | 0.00 | 0. | 2 | 0 | A21 | 0.00 |
| 9 608A | 12. | 37. | 59. | 124. | 4 | 480. | 0.13000 | 2.50 | 0.00 | 0. | 2 | 6 | A30 | 0.60 |
| 9 609A | 8. | 19. | 67. | 138. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 5 | A21 | 0.42 |
| 9 610A | 0. | 0. | 67. | 138. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A21 | 0.00 |
| 9 611A | 0. | 0. | 67. | 138. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A21 | 0.00 |
| 9 612C | 35. | 62. | 35. | 62. | 1 | 300. | 0.17200 | 0.00 | 0.00 | 0. | 190 | 8 | A21 | 0.00 |
| 9 613C | 17. | 39. | 52. | 97. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 5 | A21 | 0.00 |
| 9 614D | 6. | 14. | 6. | 14. | 1 | 800. | 0.17200 | 0.00 | 0.00 | 0. | 190 | 5 | A21 | 0.00 |
| 9 615CD | 6. | 12. | 58. | 106. | 1 | 1700. | 0.14000 | 0.00 | 0.00 | 0. | 2 | 0 | A21 | 0.00 |
| 9 616C | 36. | 69. | 94. | 147. | 4 | 550. | 0.15000 | 2.50 | 0.00 | 0. | 190 | 7 | A21 | 0.05 |
| 9 617E | 10. | 16. | 10. | 16. | 4 | 150. | 0.30000 | 2.00 | 0.00 | 0. | 2 | 9 | A21 | 0.13 |
| 9 618E | 4. | 8. | 14. | 24. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 6 | A21 | 0.16 |
| 9 619CE | 14. | 24. | 108. | 167. | 4 | 800. | 0.11000 | 2.75 | 0.00 | 0. | 2 | 0 | A21 | 0.00 |
| 9 620C | 11. | 16. | 119. | 182. | 4 | 770. | 0.07000 | 3.00 | 0.00 | 0. | 2 | 13 | A21 | 0.60 |
| 9 621AC | 119. | 180. | 186. | 302. | 4 | 260. | 0.12000 | 3.25 | 0.00 | 0. | 2 | 0 | A21 | 0.00 |
| 9 622A | 14. | 21. | 200. | 322. | 4 | 290. | 0.12000 | 3.50 | 0.00 | 0. | 2 | 12 | A21 | 0.42 |
| 9 623A | 20. | 27. | 220. | 349. | 4 | 550. | 0.08000 | 3.75 | 0.00 | 0. | 2 | 14 | A21 | 0.42 |
| 9 624A | 0. | 0. | 220. | 347. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A21 | 0.00 |
| 9 625A | 0. | 0. | 220. | 347. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A21 | 0.00 |
| 9 626A | 0. | 0. | 220. | 347. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A21 | 0.00 |
| 9 627A | 27. | 44. | 247. | 388. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 10 | A21 | 0.42 |
| 9 628D | 3. | 9. | 3. | 9. | 4 | 270. | 0.11000 | 2.00 | 0.00 | 0. | 2 | 6 | A30 | 0.60 |
| 9 629D | 4. | 9. | 7. | 18. | 4 | 730. | 0.02000 | 2.00 | 0.00 | 0. | 2 | 5 | A21 | 0.42 |
| 9 630D | 3. | 6. | 10. | 23. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 6 | A21 | 0.42 |
| 9 631E | 4. | 13. | 4. | 13. | 4 | 170. | 0.16000 | 2.00 | 0.00 | 0. | 2 | 5 | A30 | 0.21 |
| 9 632DE | 4. | 13. | 14. | 35. | 3 | 2450. | 0.03000 | 0.00 | 0.00 | 0. | 2 | 0 | A21 | 0.00 |
| 9 633AD | 14. | 25. | 261. | 405. | 4 | 430. | 0.07000 | 4.00 | 0.00 | 0. | 2 | 0 | A21 | 0.00 |
| 9 634A | 2. | 7. | 263. | 406. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 5 | A30 | 0.10 |
| 9 635A | 0. | 0. | 263. | 406. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A21 | 0.00 |
| 9 636A | 0. | 0. | 263. | 406. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A21 | 0.00 |
| 9 637A | 0. | 0. | 263. | 406. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A21 | 0.00 |
| 9 638B | 3. | 5. | 3. | 5. | 4 | 80. | 0.08000 | 2.00 | 0.00 | 0. | 2 | 8 | A21 | 0.21 |
| 9 639C | 8. | 11. | 8. | 11. | 4 | 80. | 0.09000 | 2.00 | 0.00 | 0. | 2 | 12 | A21 | 0.10 |
| 9 640D | 1. | 2. | 1. | 2. | 4 | 200. | 0.02000 | 2.00 | 0.00 | 0. | 2 | 10 | A21 | 0.10 |
| 9 641E | 5. | 9. | 5. | 9. | 4 | 200. | 0.02000 | 2.00 | 0.00 | 0. | 2 | 17 | A30 | 0.42 |

# HYDROLOGY CALCULATIONS

## OCEAN WEST
## DRAINAGE AREA

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT



MODIFIED RATIONAL METHOD HYDROLOGY

RANCHO PALOS VERDES, PACIFIC OCEAN WEST (OW1-51.DAT)

STORM DAY 4

| LOCATION | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 1001A | 27. | 65. | 27. | 65. | 4 | 100. | 0.10000 | 2.00 | 0.00 | 0. | 2 | 9 | A30 | 0.13 |
| 9 1002A | 0. | 0. | 27. | 65. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 1003B | 7. | 11. | 7. | 11. | 3 | 480. | 0.03000 | 0.00 | 0.00 | 0. | 2 | 10 | A21 | 0.08 |
| 9 1004B | 0. | 0. | 7. | 10. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 1005AB | 7. | 10. | 34. | 74. | 2 | 800. | 0.07000 | 0.00 | 0.00 | 0. | 190 | 0 | A30 | 0.00 |
| 9 1006A | 5. | 17. | 39. | 84. | 4 | 650. | 0.07000 | 2.25 | 0.00 | 0. | 190 | 5 | A30 | 0.33 |
| 9 1007B | 31. | 66. | 31. | 66. | 4 | 50. | 0.20000 | 2.00 | 0.00 | 0. | 190 | 6 | A21 | 0.21 |
| 9 1008B | 0. | 0. | 31. | 65. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 1009C | 6. | 12. | 6. | 12. | 4 | 50. | 0.04000 | 2.00 | 0.00 | 0. | 190 | 7 | A21 | 0.15 |
| 9 1010C | 0. | 0. | 6. | 12. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 1011C | 0. | 0. | 6. | 12. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 1012C | 0. | 0. | 6. | 12. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 1013C | 0. | 0. | 6. | 12. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 1014C | 0. | 0. | 6. | 12. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 1015D | 12. | 19. | 12. | 19. | 4 | 60. | 0.33000 | 2.00 | 0.00 | 0. | 2 | 12 | A21 | 0.65 |

RANCHO PALOS VERDES, PACIFIC OCEAN WEST (OW2-51.DAT) STORM DAY 4

| LOCATION | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 1016A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 1017A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 1018B | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 1019B | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 1020A | 21. | 27. | 21. | 27. | 4 | 60. | 0.33000 | 2.00 | 0.00 | 0. | 4 | 10 | A21 | 0.15 |
| 9 1021B | 3. | 10. | 3. | 10. | 4 | 200. | 0.13000 | 2.00 | 0.00 | 0. | 2 | 5 | A30 | 0.21 |
| 9 1022AB | 3. | 10. | 24. | 36. | 4 | 440. | 0.20000 | 2.00 | 0.00 | 0. | 2 | 0 | A30 | 0.00 |
| 9 1023A | 0. | 0. | 24. | 36. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 1024A | 0. | 0. | 24. | 36. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 1025A | 8. | 15. | 32. | 51. | 4 | 400. | 0.12000 | 2.00 | 0.00 | 0. | 4 | 11 | A30 | 0.20 |
| 9 1026A | 13. | 37. | 45. | 87. | 4 | 240. | 0.15000 | 2.00 | 0.00 | 0. | 2 | 7 | A30 | 0.42 |
| 9 1027A | 9. | 14. | 54. | 100. | 4 | 690. | 0.15000 | 2.25 | 0.00 | 0. | 2 | 11 | A21 | 0.42 |
| 9 1028A | 1. | 2. | 55. | 102. | 4 | 180. | 0.19000 | 2.00 | 0.00 | 0. | 2 | 10 | A21 | 0.42 |
| 9 1029C | 23. | 55. | 23. | 55. | 3 | 1000. | 0.05500 | 0.00 | 0.00 | 0. | 2 | 9 | A30 | 0.13 |
| 9 1030C | 12. | 25. | 35. | 78. | 4 | 320. | 0.06000 | 2.25 | 0.00 | 0. | 2 | 13 | A30 | 0.45 |

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT



MODIFIED RATIONAL METHOD HYDROLOGY

RANCHO PALOS VERDES, PACIFIC OCEAN WEST (OW3-51.DAT)

STORM DAY 4

| LOCATION | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 1031A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 1032A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 1033A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 1034A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 1035A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 1036A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 1037A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 1038A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 1039A | 7. | 12. | 7. | 12. | 4 | 1400. | 0.08000 | 2.00 | 0.00 | 0. | 4 | 7 | A21 | 0.52 |
| 9 1040A | 37. | 76. | 44. | 87. | 4 | 500. | 0.08000 | 2.25 | 0.00 | 0. | 4 | 9 | A30 | 0.15 |
| 9 1041A | 8. | 15. | 52. | 102. | 4 | 900. | 0.15000 | 2.25 | 0.00 | 0. | 2 | 7 | A21 | 0.42 |
| 9 1042A | 10. | 23. | 62. | 118. | 4 | 580. | 0.15500 | 2.25 | 0.00 | 0. | 2 | 5 | A21 | 0.42 |
| 9 1043A | 9. | 13. | 71. | 130. | 4 | 250. | 0.16400 | 2.25 | 0.00 | 0. | 2 | 12 | A21 | 0.42 |
| 9 1044A | 20. | 42. | 91. | 171. | 4 | 300. | 0.07000 | 3.00 | 0.00 | 0. | 2 | 13 | A30 | 0.42 |
| 9 1045A | 4. | 9. | 95. | 180. | 4 | 40. | 0.42500 | 2.25 | 0.00 | 0. | 2 | 10 | A30 | 0.32 |

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT



MODIFIED RATIONAL METHOD HYDROLOGY

RANCHO PALOS VERDES, PACIFIC OCEAN WEST (OW4-S1.DAT)

STORM DAY 4

| LOCATION | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 1046A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 1047A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 1048A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 1049A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 1050A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 1051A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 1052A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 1053A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 1054A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 1055A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 1056A | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 1057A | 4. | 5. | 4. | 5. | 4 | 700. | 0.04000 | 2.00 | 0.00 | 0. | 4 | 12 | A21 | 0.42 |
| 9 1058A | 14. | 36. | 18. | 40. | 4 | 640. | 0.08000 | 2.00 | 0.00 | 0. | 4 | 7 | A30 | 0.42 |
| 9 1059A | 11. | 15. | 29. | 55. | 4 | 580. | 0.07000 | 2.00 | 0.00 | 0. | 4 | 11 | A21 | 0.42 |
| 9 1060A | 8. | 12. | 37. | 66. | 4 | 580. | 0.06000 | 2.25 | 0.00 | 0. | 4 | 9 | A21 | 0.42 |
| 9 1061B | 7. | 17. | 7. | 17. | 4 | 150. | 0.30000 | 2.00 | 0.00 | 0. | 4 | 7 | A30 | 0.30 |
| 9 1062AB | 7. | 17. | 44. | 81. | 4 | 100. | 0.02000 | 3.00 | 0.00 | 0. | 4 | 0 | A21 | 0.00 |
| 9 1063A | 3. | 5. | 47. | 85. | 4 | 950. | 0.10500 | 2.25 | 0.00 | 0. | 4 | 7 | A21 | 0.30 |
| 9 1064A | 22. | 69. | 69. | 135. | 4 | 130. | 0.12000 | 2.50 | 0.00 | 0. | 4 | 5 | A30 | 0.49 |
| 9 1065B | 5. | 11. | 5. | 11. | 4 | 120. | 0.00500 | 2.00 | 0.00 | 0. | 4 | 10 | A30 | 0.42 |
| 9 1066AB | 5. | 11. | 74. | 145. | 4 | 300. | 0.22000 | 2.25 | 0.00 | 0. | 4 | 0 | A30 | 0.00 |
| 9 1067A | 14. | 33. | 88. | 178. | 4 | 1050. | 0.08000 | 3.00 | 0.00 | 0. | 4 | 8 | A30 | 0.42 |
| 9 1068C | 16. | 30. | 16. | 30. | 4 | 10. | 0.10000 | 2.00 | 0.00 | 0. | 4 | 11 | A30 | 0.15 |
| 9 1069AC | 16. | 30. | 104. | 206. | 4 | 430. | 0.04000 | 3.50 | 0.00 | 0. | 4 | 0 | A30 | 0.00 |
| 9 1070A | 0. | 0. | 104. | 205. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 1071A | 0. | 0. | 104. | 205. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 1072A | 0. | 0. | 104. | 205. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 1073A | 0. | 0. | 104. | 205. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 1074A | 0. | 0. | 104. | 205. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 1075A | 6. | 9. | 110. | 213. | 4 | 650. | 0.06000 | 3.25 | 0.00 | 0. | 2 | 13 | A21 | 0.42 |
| 9 1076A | 6. | 14. | 116. | 218. | 4 | 760. | 0.14000 | 3.00 | 0.00 | 0. | 2 | 5 | A21 | 0.42 |
| 9 1077B | 15. | 27. | 15. | 27. | 4 | 950. | 0.11000 | 2.00 | 0.00 | 0. | 4 | 13 | A30 | 0.30 |
| 9 1078B | 20. | 29. | 35. | 55. | 4 | 550. | 0.04500 | 2.25 | 0.00 | 0. | 4 | 10 | A21 | 0.42 |
| 9 1079C | 2. | 4. | 2. | 4. | 4 | 150. | 0.07000 | 2.00 | 0.00 | 0. | 4 | 6 | A21 | 0.42 |
| 9 1080BC | 2. | 4. | 37. | 58. | 4 | 200. | 0.02500 | 2.50 | 0.00 | 0. | 4 | 0 | A30 | 0.00 |
| 9 1081B | 8. | 12. | 45. | 69. | 4 | 450. | 0.12000 | 2.00 | 0.00 | 0. | 4 | 10 | A21 | 0.42 |
| 9 1082B | 8. | 15. | 53. | 83. | 4 | 930. | 0.13000 | 2.00 | 0.00 | 0. | 4 | 8 | A21 | 0.80 |
| 9 1083D | 18. | 39. | 18. | 39. | 4 | 500. | 0.03000 | 2.00 | 0.00 | 0. | 4 | 8 | A30 | 0.15 |
| 9 1084B | 1. | 2. | 54. | 83. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 5 | A21 | 0.42 |
| 9 1085BD | 18. | 39. | 72. | 121. | 4 | 1020. | 0.13000 | 2.50 | 0.00 | 0. | 4 | 0 | A30 | 0.00 |
| 9 1086B | 22. | 62. | 94. | 173. | 4 | 450. | 0.14000 | 2.75 | 0.00 | 0. | 2 | 7 | A30 | 0.42 |
| 9 1087B | 7. | 16. | 101. | 182. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 5 | A21 | 0.42 |
| 9 1088B | 0. | 0. | 101. | 182. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 1089B | 0. | 0. | 101. | 182. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A30 | 0.00 |
| 9 1090AB | 101. | 182. | 217. | 394. | 4 | 650. | 0.07000 | 4.00 | 0.00 | 0. | 2 | 0 | A30 | 0.00 |
| 9 1091A | 6. | 20. | 223. | 401. | 1 | 600. | 0.12500 | 0.00 | 0.00 | 0. | 2 | 5 | A30 | 0.42 |

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT PROG FO601A

MODIFIED RATIONAL METHOD HYDROLOGY

RANCHO PALOS VERDES, PACIFIC OCEAN WEST (OW4-51.DAT) STORM DAY 4

| LOCATION | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 1092A | 2. | 7. | 225. | 400. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 5 | A30 | 0.42 |
| 9 1093C | 18. | 42. | 18. | 42. | 4 | 250. | 0.26000 | 2.00 | 0.00 | 0. | 2 | 5 | A21 | 0.44 |
| 9 1094AC | 18. | 41. | 243. | 419. | 2 | 550. | 0.08000 | 0.00 | 0.00 | 0. | 2 | 0 | A30 | 0.00 |
| 9 1095A | 29. | 98. | 272. | 459. | 4 | 130. | 0.11000 | 4.00 | 0.00 | 0. | 2 | 5 | A30 | 0.42 |

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT PROG F0601A

MODIFIED RATIONAL METHOD HYDROLOGY

RANCHO PALOS VERDES, PACIFIC OCEAN WEST (OWS-51.DAT) STORM DAY 4

| LOCATION | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 1100A | 20. | 35. | 20. | 35. | 4 | 450. | 0.08000 | 2.00 | 0.00 | 0. | 4 | 12 | A30 | 0.15 |
| 9 1101A | 37. | 88. | 57. | 123. | 4 | 250. | 0.22000 | 2.25 | 0.00 | 0. | 2 | 10 | A30 | 0.42 |
| 9 1102B | 8. | 27. | 8. | 27. | 4 | 350. | 0.02500 | 2.00 | 0.00 | 0. | 2 | 5 | A30 | 0.42 |
| 9 1103AB | 8. | 26. | 65. | 149. | 4 | 300. | 0.29000 | 2.25 | 0.00 | 0. | 2 | 0 | A30 | 0.00 |
| 9 1104A | 20. | 56. | 85. | 204. | 4 | 350. | 0.07000 | 3.25 | 0.00 | 0. | 2 | 7 | A30 | 0.42 |
| 9 1105A | 16. | 36. | 101. | 239. | 4 | 350. | 0.09000 | 3.25 | 0.00 | 0. | 2 | 11 | A30 | 0.42 |
| 9 1106A | 12. | 27. | 113. | 266. | 4 | 800. | 0.13000 | 3.25 | 0.00 | 0. | 2 | 11 | A30 | 0.42 |
| 9 1107A | 7. | 24. | 120. | 281. | 4 | 310. | 0.14000 | 3.25 | 0.00 | 0. | 2 | 5 | A30 | 0.42 |
| 9 1108A | 5. | 11. | 125. | 287. | 4 | 130. | 0.06000 | 3.75 | 0.00 | 0. | 2 | 5 | A21 | 0.21 |
| 9 1109B | 4. | 8. | 4. | 8. | 4 | 270. | 0.00400 | 2.00 | 0.00 | 0. | 2 | 6 | A21 | 0.21 |
| 9 1110B | 3. | 6. | 7. | 14. | 4 | 100. | 0.01000 | 2.00 | 0.00 | 0. | 2 | 6 | A21 | 0.21 |
| 9 1111C | 14. | 24. | 14. | 24. | 4 | 500. | 0.15000 | 2.00 | 0.00 | 0. | 2 | 9 | A21 | 0.42 |
| 9 1112BC | 14. | 24. | 21. | 37. | 4 | 360. | 0.07500 | 2.00 | 0.00 | 0. | 2 | 0 | A21 | 0.00 |
| 9 1113D | 6. | 13. | 6. | 13. | 4 | 70. | 0.13000 | 2.00 | 0.00 | 0. | 2 | 5 | A21 | 0.21 |
| 9 1114BD | 6. | 13. | 27. | 48. | 4 | 650. | 0.00800 | 2.75 | 0.00 | 0. | 2 | 0 | A21 | 0.00 |
| 9 1115B | 6. | 14. | 33. | 60. | 4 | 250. | 0.15000 | 2.00 | 0.00 | 0. | 2 | 10 | A30 | 0.21 |
| 9 1116AB | 33. | 59. | 158. | 345. | 4 | 100. | 0.27000 | 3.00 | 0.00 | 0. | 2 | 0 | A30 | 0.00 |
| 9 1117E | 10. | 30. | 10. | 30. | 4 | 80. | 0.10000 | 2.00 | 0.00 | 0. | 2 | 6 | A30 | 0.42 |
| 9 1118E | 3. | 7. | 13. | 37. | 4 | 80. | 0.37500 | 2.00 | 0.00 | 0. | 2 | 11 | A30 | 0.32 |
| 9 1119B | 3. | 10. | 3. | 10. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 5 | A30 | 0.42 |
| 9 1120C | 3. | 10. | 3. | 10. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 5 | A30 | 0.42 |

# HYDROLOGY CALCULATIONS

## PALOS VERDES ESTATES NORTH
## DRAINAGE AREA

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT



MODIFIED RATIONAL METHOD HYDROLOGY

RANCHO PALOS VERDES, PALOS VERDES ESTATES NORTH (PVEN1-50.DAT)

STORM DAY 4

| LOCATION | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 2000A | 57. | 97. | 57. | 97. | 4 | 1250. | 0.00500 | 4.00 | 0.00 | 0. | 4 | 16 | A30 | 0.45 |
| 9 2001A | 27. | 62. | 84. | 148. | 1 | 400. | 0.10000 | 0.00 | 0.00 | 0. | 4 | 9 | A30 | 0.45 |
| 9 2002A | 16. | 37. | 100. | 171. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 7 | A30 | 0.10 |
| 9 2003B | 43. | 69. | 43. | 69. | 4 | 1080. | 0.15000 | 2.00 | 0.00 | 0. | 4 | 18 | A30 | 0.45 |
| 9 2004AB | 43. | 68. | 143. | 239. | 1 | 1600. | 0.10000 | 0.00 | 0.00 | 0. | 4 | 0 | A30 | 0.00 |
| 9 2005A | 40. | 91. | 183. | 298. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 191 | 9 | A30 | 0.05 |
| 9 2006C | 40. | 76. | 40. | 76. | 1 | 650. | 0.19900 | 0.00 | 0.00 | 0. | 4 | 13 | A30 | 0.45 |
| 9 2007AC | 40. | 75. | 223. | 373. | 4 | 700. | 0.10000 | 3.75 | 0.00 | 0. | 4 | 0 | A30 | 0.00 |
| 9 2008A | 5. | 16. | 228. | 377. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 191 | 5 | A30 | 0.24 |
| 9 2009D | 41. | 78. | 41. | 78. | 1 | 850. | 0.14500 | 0.00 | 0.00 | 0. | 4 | 13 | A30 | 0.45 |
| 9 2010AD | 41. | 77. | 269. | 454. | 1 | 1400. | 0.10000 | 0.00 | 0.00 | 0. | 4 | 0 | A30 | 0.00 |
| 9 2011A | 0. | 0. | 269. | 446. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 2012A | 0. | 0. | 269. | 446. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 2013A | 0. | 0. | 269. | 446. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 2014A | 0. | 0. | 269. | 446. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 2015A | 18. | 32. | 287. | 475. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 191 | 14 | A30 | 0.00 |
| 9 2016E | 22. | 39. | 22. | 39. | 4 | 380. | 0.47000 | 2.00 | 0.00 | 0. | 4 | 15 | A30 | 0.45 |
| 9 2017AE | 22. | 39. | 309. | 511. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 0 | A30 | 0.00 |
| 9 2018B | 9. | 16. | 9. | 16. | 4 | 500. | 0.44000 | 2.00 | 0.00 | 0. | 4 | 14 | A30 | 0.45 |
| 9 2019AB | 9. | 16. | 318. | 526. | 2 | 650. | 0.07000 | 0.00 | 0.00 | 0. | 4 | 0 | A30 | 0.00 |
| 9 2020A | 0. | 0. | 318. | 524. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 2021A | 0. | 0. | 318. | 524. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 2022A | 0. | 0. | 318. | 524. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 2023C | 17. | 37. | 17. | 37. | 4 | 500. | 0.14000 | 2.00 | 0.00 | 0. | 4 | 10 | A30 | 0.45 |
| 9 2024D | 11. | 27. | 11. | 27. | 4 | 150. | 0.06700 | 2.00 | 0.00 | 0. | 4 | 8 | A30 | 0.45 |
| 9 2025CD | 11. | 27. | 28. | 63. | 4 | 500. | 0.23000 | 2.00 | 0.00 | 0. | 4 | 0 | A30 | 0.00 |
| 9 2026C | 17. | 33. | 45. | 96. | 4 | 600. | 0.03000 | 2.75 | 0.00 | 0. | 4 | 12 | A30 | 0.43 |
| 9 2027C | 8. | 15. | 53. | 110. | 4 | 200. | 0.15000 | 2.25 | 0.00 | 0. | 4 | 14 | A30 | 0.45 |

RANCHO PALOS VERDES, PALOS VERDES ESTATES NORTH (PVEN2-50.DAT) STORM DAY 4

| LOCATION | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 2030A | 6. | 19. | 6. | 19. | 4 | 250. | 0.15600 | 2.00 | 0.00 | 0. | 4 | 5 | A30 | 0.45 |
| 9 2031A | 6. | 14. | 12. | 32. | 4 | 350. | 0.16500 | 2.00 | 0.00 | 0. | 4 | 9 | A30 | 0.45 |
| 9 2032A | 19. | 39. | 31. | 70. | 4 | 500. | 0.07000 | 2.25 | 0.00 | 0. | 4 | 11 | A30 | 0.45 |
| 9 2033A | 2. | 6. | 33. | 74. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 5 | A30 | 0.10 |
| 9 2034B | 13. | 30. | 13. | 30. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 9 | A30 | 0.45 |
| 9 2035B | 0. | 0. | 13. | 30. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 2036B | 0. | 0. | 13. | 30. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 2037B | 0. | 0. | 13. | 30. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 2038B | 0. | 0. | 13. | 30. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 2039AB | 13. | 30. | 46. | 104. | 2 | 1200. | 0.08000 | 0.00 | 0.00 | 0. | 4 | 0 | A30 | 0.00 |
| 9 2040A | 9. | 23. | 55. | 117. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 6 | A30 | 0.10 |
| 9 2041C | 5. | 12. | 5. | 12. | 4 | 300. | 0.30000 | 2.00 | 0.00 | 0. | 4 | 8 | A30 | 0.45 |
| 9 2042C | 0. | 0. | 5. | 12. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 2043C | 0. | 0. | 5. | 12. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 2044C | 0. | 0. | 5. | 12. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 2045AC | 5. | 12. | 60. | 129. | 2 | 400. | 0.06000 | 0.00 | 0.00 | 0. | 4 | 0 | A30 | 0.00 |
| 9 2046A | 3. | 9. | 63. | 133. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 5 | A30 | 0.30 |
| 9 2047D | 7. | 17. | 7. | 17. | 4 | 400. | 0.24000 | 2.00 | 0.00 | 0. | 4 | 8 | A30 | 0.45 |
| 9 2048AD | 7. | 17. | 70. | 149. | 1 | 220. | 0.15000 | 0.00 | 0.00 | 0. | 4 | 0 | A30 | 0.00 |
| 9 2049A | 0. | 0. | 70. | 148. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 2050A | 0. | 0. | 70. | 148. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 2051B | 9. | 21. | 9. | 21. | 4 | 250. | 0.04000 | 2.00 | 0.00 | 0. | 4 | 9 | A30 | 0.45 |
| 9 2052B | 7. | 17. | 16. | 37. | 4 | 300. | 0.17000 | 2.00 | 0.00 | 0. | 4 | 8 | A30 | 0.45 |
| 9 2053C | 6. | 17. | 6. | 17. | 4 | 200. | 0.20000 | 2.00 | 0.00 | 0. | 4 | 6 | A30 | 0.45 |
| 9 2054BC | 6. | 17. | 22. | 54. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 0 | A30 | 0.00 |

# HYDROLOGY CALCULATIONS

## PALOS VERDES ESTATES WEST
## DRAINAGE AREA

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT PROG FO601A

MODIFIED RATIONAL METHOD HYDROLOGY

RANCHO PALOS VERDES, PALOS VERDES ESTATES WEST (PVEW1-51.DAT) STORM DAY 4

| LOCATION | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 1500A | 12. | 29. | 12. | 29. | 4 | 500. | 0.03000 | 2.00 | 0.00 | 0. | 4 | 9 | A30 | 0.66 |
| 9 1501A | 13. | 26. | 25. | 55. | 4 | 490. | 0.04000 | 2.25 | 0.00 | 0. | 4 | 13 | A30 | 0.60 |
| 9 1502A | 6. | 19. | 31. | 69. | 4 | 500. | 0.04000 | 2.50 | 0.00 | 0. | 4 | 5 | A30 | 0.60 |
| 9 1503B | 7. | 23. | 7. | 23. | 4 | 300. | 0.06000 | 2.00 | 0.00 | 0. | 4 | 5 | A30 | 0.60 |
| 9 1504AB | 7. | 22. | 38. | 89. | 4 | 350. | 0.00900 | 3.50 | 0.00 | 0. | 4 | 0 | A21 | 0.00 |
| 9 1505C | 7. | 23. | 7. | 23. | 4 | 250. | 0.08000 | 2.00 | 0.00 | 0. | 4 | 5 | A30 | 0.60 |
| 9 1506AC | 7. | 22. | 45. | 105. | 4 | 800. | 0.01500 | 3.25 | 0.00 | 0. | 4 | 0 | A21 | 0.00 |
| 9 1507D | 11. | 21. | 11. | 21. | 4 | 200. | 0.16000 | 2.00 | 0.00 | 0. | 4 | 14 | A30 | 0.60 |
| 9 1508AD | 11. | 21. | 56. | 123. | 4 | 150. | 0.03000 | 3.00 | 0.00 | 0. | 4 | 0 | A30 | 0.00 |
| 9 1509A | 16. | 25. | 72. | 147. | 4 | 600. | 0.04000 | 3.25 | 0.00 | 0. | 4 | 10 | A21 | 0.60 |
| 9 1510A | 0. | 0. | 72. | 145. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 1511A | 0. | 0. | 72. | 145. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 1512A | 0. | 0. | 72. | 145. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 1513A | 0. | 0. | 72. | 145. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 1514A | 0. | 0. | 72. | 145. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 1515E | 4. | 10. | 4. | 10. | 4 | 100. | 0.25000 | 2.00 | 0.00 | 0. | 4 | 7 | A30 | 0.45 |
| 9 1516AE | 4. | 10. | 76. | 153. | 4 | 350. | 0.06000 | 3.00 | 0.00 | 0. | 4 | 0 | A30 | 0.00 |
| 9 1517A | 12. | 17. | 88. | 168. | 4 | 450. | 0.05000 | 3.25 | 0.00 | 0. | 4 | 10 | A21 | 0.45 |
| 9 1518A | 13. | 18. | 101. | 184. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 11 | A21 | 0.42 |
| 9 1519B | 4. | 8. | 4. | 8. | 4 | 1650. | 0.02000 | 2.00 | 0.00 | 0. | 4 | 6 | A21 | 0.51 |
| 9 1520AB | 4. | 6. | 105. | 191. | 4 | 150. | 0.04700 | 3.25 | 0.00 | 0. | 4 | 0 | A30 | 0.00 |
| 9 1521A | 5. | 7. | 110. | 197. | 4 | 320. | 0.04500 | 3.50 | 0.00 | 0. | 4 | 11 | A21 | 0.42 |
| 9 1522A | 0. | 0. | 110. | 196. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 1523A | 0. | 0. | 110. | 196. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 1524A | 0. | 0. | 110. | 196. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 1525A | 0. | 0. | 110. | 196. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 1526B | 21. | 48. | 21. | 48. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 9 | A30 | 0.42 |
| 9 1527C | 25. | 57. | 25. | 57. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 9 | A30 | 0.42 |
| 9 1528BC | 25. | 57. | 46. | 104. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 0 | A30 | 0.00 |
| 9 1529D | 6. | 11. | 6. | 11. | 4 | 300. | 0.02000 | 2.00 | 0.00 | 0. | 4 | 6 | A21 | 0.42 |
| 9 1530BD | 6. | 11. | 52. | 115. | 4 | 450. | 0.05500 | 2.75 | 0.00 | 0. | 4 | 0 | A30 | 0.00 |
| 9 1531F | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 1532F | 0. | 0. | 0. | 0. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 1533F | 43. | 90. | 43. | 90. | 4 | 100. | 0.01000 | 3.50 | 0.00 | 0. | 4 | 12 | A30 | 0.61 |

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT PROG F0601A

MODIFIED RATIONAL METHOD HYDROLOGY

RANCHO PALOS VERDES, PALOS VERDES ESTATES WEST (PVEW2-51.DAT) STORM DAY 4

| LOCATION | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 1531A | 27. | 65. | 27. | 65. | 4 | 500. | 0.11000 | 2.00 | 0.00 | 0. | 4 | 8 | A30 | 0.42 |
| 9 1532A | 14. | 29. | 41. | 93. | 4 | 380. | 0.06500 | 2.50 | 0.00 | 0. | 4 | 11 | A30 | 0.42 |
| 9 1533A | 4. | 12. | 45. | 102. | 4 | 400. | 0.12000 | 2.25 | 0.00 | 0. | 4 | 5 | A30 | 0.42 |
| 9 1534A | 13. | 28. | 58. | 130. | 4 | 450. | 0.10500 | 2.50 | 0.00 | 0. | 4 | 10 | A30 | 0.42 |
| 9 1535A | 26. | 45. | 84. | 173. | 4 | 300. | 0.08000 | 3.00 | 0.00 | 0. | 4 | 7 | A21 | 0.42 |
| 9 1536A | 7. | 11. | 91. | 183. | 4 | 350. | 0.08000 | 3.00 | 0.00 | 0. | 4 | 8 | A21 | 0.42 |
| 9 1537A | 8. | 12. | 99. | 193. | 4 | 650. | 0.08000 | 3.00 | 0.00 | 0. | 4 | 10 | A21 | 0.42 |
| 9 1538A | 24. | 33. | 123. | 224. | 4 | 150. | 0.07000 | 3.25 | 0.00 | 0. | 4 | 11 | A21 | 0.42 |
| 9 1539A | 0. | 0. | 123. | 224. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 1540A | 0. | 0. | 123. | 224. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 1541A | 0. | 0. | 123. | 224. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 1542B | 16. | 21. | 16. | 21. | 4 | 1350. | 0.14000 | 2.00 | 0.00 | 0. | 4 | 12 | A21 | 0.42 |
| 9 1543B | 0. | 0. | 16. | 21. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A21 | 0.00 |
| 9 1544B | 0. | 0. | 16. | 21. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A21 | 0.00 |
| 9 1545B | 0. | 0. | 16. | 21. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A21 | 0.00 |
| 9 1546B | 0. | 0. | 16. | 21. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A21 | 0.00 |
| 9 1547B | 0. | 0. | 16. | 21. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A21 | 0.00 |
| 9 1548B | 30. | 48. | 46. | 68. | 4 | 1250. | 0.06000 | 2.25 | 0.00 | 0. | 4 | 8 | A21 | 0.42 |
| 9 1549B | 31. | 40. | 77. | 107. | 4 | 150. | 0.07000 | 2.50 | 0.00 | 0. | 4 | 12 | A21 | 0.42 |
| 9 1550C | 38. | 34. | 38. | 34. | 4 | 150. | 0.02000 | 2.00 | 0.00 | 0. | 4 | 24 | A21 | 0.43 |

RANCHO PALOS VERDES, PALOS VERDES ESTATES WEST (PVEW3-51.DAT) STORM DAY 4

| LOCATION | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 1601D | 19. | 31. | 19. | 31. | 2 | 1300. | 0.06000 | 0.00 | 0.00 | 0. | 191 | 16 | A30 | 0.00 |
| 9 1602BD | 19. | 31. | 227. | 384. | 4 | 400. | 0.06000 | 4.25 | 0.00 | 0. | 190 | 0 | A30 | 0.00 |
| 9 1603B | 0. | 0. | 227. | 384. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 1604B | 0. | 0. | 227. | 384. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 1605B | 0. | 0. | 227. | 384. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 1606B | 0. | 0. | 227. | 384. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 1607B | 0. | 0. | 227. | 384. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 1608B | 0. | 0. | 227. | 384. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 1609B | 0. | 0. | 227. | 384. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 1610C | 5. | 6. | 5. | 6. | 4 | 100. | 0.45000 | 2.00 | 0.00 | 0. | 4 | 12 | A21 | 0.10 |
| 9 1611BC | 5. | 6. | 232. | 388. | 1 | 900. | 0.16000 | 0.00 | 0.00 | 0. | 2 | 0 | A30 | 0.00 |
| 9 1612B | 13. | 34. | 245. | 398. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 8 | A30 | 0.08 |
| 9 1613D | 10. | 23. | 10. | 23. | 1 | 300. | 0.21600 | 0.00 | 0.00 | 0. | 190 | 11 | A30 | 0.17 |
| 9 1614BD | 10. | 23. | 255. | 418. | 1 | 900. | 0.10000 | 0.00 | 0.00 | 0. | 2 | 0 | A30 | 0.00 |
| 9 1615BE | 147. | 181. | 402. | 591. | 2 | 600. | 0.09000 | 0.00 | 0.00 | 0. | 190 | 0 | A30 | 0.00 |
| 9 1616C | 10. | 17. | 10. | 17. | 4 | 350. | 0.02000 | 2.00 | 0.00 | 0. | 4 | 7 | A21 | 0.42 |
| 9 1617D | 32. | 63. | 32. | 63. | 4 | 50. | 0.06000 | 2.25 | 0.00 | 0. | 4 | 10 | A30 | 0.15 |
| 9 1618CD | 32. | 63. | 42. | 80. | 4 | 600. | 0.09000 | 2.25 | 0.00 | 0. | 4 | 0 | A30 | 0.00 |
| 9 1619C | 16. | 41. | 58. | 119. | 1 | 650. | 0.19700 | 0.00 | 0.00 | 0. | 4 | 7 | A30 | 0.42 |
| 9 1620C | 0. | 0. | 58. | 118. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 1621C | 0. | 0. | 58. | 118. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 1622C | 0. | 0. | 58. | 118. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 1623C | 0. | 0. | 58. | 118. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A30 | 0.00 |
| 9 1624B | 13. | 34. | 415. | 602. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 8 | A30 | 0.10 |
| 9 1625BC | 58. | 118. | 473. | 691. | 2 | 550. | 0.06000 | 0.00 | 0.00 | 0. | 190 | 0 | A30 | 0.00 |
| 9 1626B | 8. | 27. | 481. | 695. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 5 | A30 | 0.00 |
| 9 1627D | 14. | 21. | 14. | 21. | 4 | 400. | 0.41000 | 2.00 | 0.00 | 0. | 4 | 9 | A21 | 0.42 |
| 9 1628BD | 14. | 21. | 495. | 708. | 2 | 800. | 0.09000 | 0.00 | 0.00 | 0. | 190 | 0 | A30 | 0.00 |
| 9 1629E | 28. | 72. | 28. | 72. | 4 | 300. | 0.26000 | 2.00 | 0.00 | 0. | 4 | 7 | A30 | 0.42 |
| 9 1630AE | 28. | 72. | 186. | 268. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 0 | A30 | 0.00 |
| 9 1631A | 13. | 37. | 199. | 290. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 7 | A30 | 0.09 |
| 9 1632AB | 495. | 707. | 694. | 985. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 0 | A30 | 0.00 |

# HYDROLOGY CALCULATIONS

## ROLLING HILLS

## DRAINAGE AREA

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT



MODIFIED RATIONAL METHOD HYDROLOGY

ROLLING HILLS ESTATES (RHE1.DAT)

STORM DAY 4

| LOCATION | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 2500A | 14. | 24. | 14. | 24. | 4 | 1230. | 0.12000 | 2.00 | 0.00 | 0. | 4 | 11 | A25 | 0.45 |
| 9 2501A | 11. | 18. | 25. | 42. | 4 | 650. | 0.09000 | 2.00 | 0.00 | 0. | 4 | 11 | A25 | 0.44 |
| 9 2502A | 4. | 9. | 29. | 49. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 6 | A25 | 0.42 |
| 9 2503A | 0. | 0. | 29. | 49. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A25 | 0.00 |
| 9 2504A | 0. | 0. | 29. | 49. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A25 | 0.00 |
| 9 2505A | 0. | 0. | 29. | 49. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A25 | 0.00 |
| 9 2506A | 0. | 0. | 29. | 49. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A25 | 0.00 |
| 9 2507A | 0. | 0. | 29. | 49. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A25 | 0.00 |
| 9 2508A | 0. | 0. | 29. | 49. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A25 | 0.00 |
| 9 2509A | 0. | 0. | 29. | 49. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A25 | 0.00 |
| 9 2510B | 35. | 73. | 35. | 73. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 7 | A25 | 0.42 |
| 9 2511AB | 35. | 73. | 64. | 121. | 4 | 1300. | 0.05000 | 2.75 | 0.00 | 0. | 4 | 0 | A25 | 0.00 |
| 9 2512A | 22. | 62. | 86. | 179. | 4 | 480. | 0.26000 | 2.50 | 0.00 | 0. | 4 | 8 | A35 | 0.42 |
| 9 2513C | 9. | 22. | 9. | 22. | 4 | 650. | 0.19000 | 2.00 | 0.00 | 0. | 4 | 11 | A35 | 0.42 |
| 9 2514A | 3. | 11. | 89. | 185. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 5 | A35 | 0.42 |
| 9 2515AC | 9. | 22. | 98. | 206. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 0 | A35 | 0.00 |
| 9 2516A | 0. | 0. | 98. | 206. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A35 | 0.00 |
| 9 2517A | 0. | 0. | 98. | 206. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A35 | 0.00 |
| 9 2518A | 0. | 0. | 98. | 206. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 4 | 99 | A35 | 0.00 |
| 9 2519B | 2. | 5. | 2. | 5. | 4 | 350. | 0.17000 | 2.00 | 0.00 | 0. | 4 | 5 | A25 | 0.45 |
| 9 2520B | 4. | 12. | 6. | 17. | 4 | 200. | 0.32000 | 2.00 | 0.00 | 0. | 4 | 7 | A35 | 0.45 |
| 9 2521B | 10. | 30. | 16. | 47. | 4 | 600. | 0.07500 | 2.00 | 0.00 | 0. | 13 | 9 | A35 | 0.42 |
| 9 2522B | 12. | 38. | 28. | 85. | 4 | 550. | 0.07000 | 2.25 | 0.00 | 0. | 13 | 8 | A35 | 0.42 |
| 9 2523B | 26. | 83. | 54. | 165. | 4 | 300. | 0.03000 | 3.50 | 0.00 | 0. | 13 | 8 | A35 | 0.42 |
| 9 2524B | 8. | 15. | 62. | 180. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 13 | 11 | A25 | 0.42 |
| 9 2525C | 9. | 29. | 9. | 29. | 4 | 200. | 0.11000 | 2.00 | 0.00 | 0. | 13 | 8 | A35 | 0.42 |
| 9 2526BC | 9. | 29. | 71. | 208. | 4 | 600. | 0.07000 | 3.25 | 0.00 | 0. | 13 | 0 | A35 | 0.00 |
| 9 2527B | 4. | 9. | 75. | 215. | 4 | 30. | 0.07000 | 3.25 | 0.00 | 0. | 13 | 8 | A25 | 0.42 |

# APPENDIX B

## COST ESTIMATES BACK-UP

**RANCHO PALOS VERDES**
**COST ESTIMATES BACK-UP**

| | | | |
|---|---|---|---|
| **1-5 Rocking Horse** | | | |
| 42" RCP | 100' x $225 | $ | 22,500 |
| Jack & Bore | 100' x $600 | $ | 60,000 |
| Inlet Control | | $ | 20,000 |
| Traffic Control | | $ | 17,500 |
| | | $ | 120,000 |
| **2-6 Via Colinita** | | | |
| 60" RCP | 100' x $300 | $ | 30,000 |
| Inlet/Outlet | | $ | 10,000 |
| Traffic Control | | $ | 2,000 |
| | | $ | 42,000 |
| **2-8 Via Colinita** | | | |
| 48" RCP | 150' x $250 | $ | 37,500 |
| Remove Exist | 24" | $ | 50,000 |
| Jack & Bore | 150' x $650 | $ | 97,500 |
| Traffic Control | | $ | 10,000 |
| Inlet/Outlet | | $ | 30,000 |
| | | $ | 225,000 |
| **2-34 Via Colinita** | | | |
| 24" RCP | 100' x $150 | $ | 15,000 |
| Inlet/Outlet | | $ | 10,000 |
| Traffic Control | | $ | 5,000 |
| | | $ | 30,000 |
| **2-35 Via Colinita** | | | |
| 12" PVC | 150' x $100 | $ | 15,000 |
| Inlet/Outlet | | $ | 7,500 |
| | | $ | 22,500 |
| **2-9 Via Colinita/Miraveste** | | | |
| Natural Channel | 1250' x $100 | $ | 125,000 |
| **2-10 Miraveste/ Chandeleur** | | | |
| 72" RCP | 500" x $1350 | $ | 175,000 |
| Difficult Location | 500' x $175 | $ | 87,500 |
| Inlet/Outlet | | $ | 50,000 |
| Traffic / Miscellaneous | | $ | 37,500 |
| | | $ | 350,000 |

| | | | |
|---|---|---|---|
| **2-11 Nineth Street** | | | |
| 30" RCP | 300' x $175 | $ | 52,500 |
| Inlet/Outlet | | $ | 15,000 |
| Traffic Control | | $ | 6,000 |
| | | $ | 73,500 |
| **2-12 Deluna Drive** | | | |
| 24" RCP | 200' x $150 | $ | 30,000 |
| Inlet/Outlet | | $ | 10,000 |
| Traffic Control | | $ | 2,000 |
| | | $ | 42,000 |
| **2-14 PV Drive East** | | | |
| 54" RCP | 80' x $275 | $ | 22,000 |
| Jack and Bore | 80' x $500 | $ | 40,000 |
| Inlet/Outlet | | $ | 15,000 |
| Traffic Control | | $ | 3,000 |
| **2-15 PV Drive East** | | | |
| 7' W x 3.5' H RCB | 80' x $1500 | $ | 120,000 |
| Inlet/Outlet | | $ | 15,000 |
| | | $ | 135,000 |
| **2-16 PV Drive East** | | | |
| 30" RCP | 120' x $175 | $ | 21,000 |
| Jack and Bore | 120' x $600 | $ | 72,000 |
| Inlet/Outlet | | $ | 27,000 |
| | | $ | 120,000 |
| **2-17 PV Drive East** | | | |
| 36" RCP | 110' x $200 | $ | 22,000 |
| Jack and Bore | 110' x $600 | $ | 66,000 |
| Inlet/Outlet | | $ | 22,000 |
| | | $ | 110,000 |
| **2-18 PV Drive East** | | | |
| 36" RCP | 70' x $200 | $ | 14,000 |
| Jack and Bore | 70' x $600 | $ | 42,000 |
| Inlet/Outlet | | $ | 14,000 |
| | | $ | 70,000 |

RANCHO PALOS VERDES
COST ESTIMATES BACK-UP

| | | | |
|---|---|---|---|
| **2-19 PV Drive East** | | | |
| 42" RCP | 90' x $225 | $ | 20,250 |
| Jack and Bore | 90' x $600 | $ | 54,000 |
| Inlet/Outlet | | $ | 15,750 |
| | | $ | 90,000 |
| **2-20 PV Drive East** | | | |
| 48" RCP | 100' x $250 | $ | 25,000 |
| Jack and Bore | 100' x $700 | $ | 70,000 |
| Inlet/Outlet | | $ | 25,000 |
| | | $ | 120,000 |
| **2-32 Forestal Drive** | | | |
| 42" RCP | 100' x $250 | $ | 90,000 |
| Inlets | 100' x $700 | $ | 50,000 |
| Traffic Control | | $ | 30,000 |
| Abandon Exist | | $ | 30,000 |
| | | $ | 200,000 |
| **2-36 Walking Path** | | | |
| 18" RCP | 100' x $125 | $ | 12,500 |
| Misc. Inlets | | $ | 10,000 |
| Misc. Removals | | $ | 2,500 |
| | | $ | 25,000 |
| **3-3 Vanderlip Road** | | | |
| 42" RCP | 50' x $225 | $ | 11,250 |
| Inlet/Outlet | | $ | 10,000 |
| Traffic Control | | $ | 3,750 |
| | | $ | 25,000 |
| **3-4 Narcissa Drive** | | | |
| 54" RCP | 80' x $275 | $ | 22,000 |
| Inlet/Outlet | | $ | 20,000 |
| Misc. Removal | | $ | 5,000 |
| Traffic Control | | $ | 5,000 |
| | | $ | 52,000 |
| **3-5 Sweetbay Road** | | | |
| 54" RCP | 50' x $275 | $ | 13,750 |
| Inlet/Outlet | | $ | 15,000 |
| Misc. Removal | | $ | 2,000 |
| Traffic Control | | $ | 1,750 |
| | | $ | 32,500 |

**RANCHO PALOS VERDES**
**COST ESTIMATES BACK-UP**

| | | | |
|---|---|---|---|
| **3-6 Narcissa Drive** | | | |
| 48" RCP | 80' x $250 | $ | 20,000 |
| Inlet/Outlet | | $ | 20,000 |
| Misc. Removal | | $ | 2,000 |
| Traffic Control | | $ | 2,000 |
| | | $ | 44,000 |
| **3-8 PV Drive South** | | | |
| 60" RCP | 210' x $300 | $ | 63,000 |
| Jack and Bore | 210' x $750 | $ | 157,500 |
| Misc. Removal | | $ | 20,000 |
| Inlet/Outlet | | $ | 50,000 |
| Traffic Control | | $ | 25,000 |
| | | $ | 315,500 |
| **3-10 Sattes Drive** | | | |
| 30" RCP | 250' x $175 | $ | 43,750 |
| Inlet/Outlet | | $ | 15,000 |
| Traffic Control | | $ | 2,500 |
| | | $ | 61,250 |
| **3-11 PV Drive South** | | | |
| 48" RCP | 1350' x $250 x 2.0 | $ | 675,000 |
| 51" RCP | 1000' x $300 x 2.0 | $ | 600,000 |
| Jack and Bore | 700' x $750 x 2.0 | $ | 1,050,000 |
| Misc. Removal | | $ | 400,000 |
| Inlet/Outlet | | $ | 150,000 |
| Traffic Control | | $ | 200,000 |
| Inlets/Manholes | | $ | 150,000 |
| | | $ | 3,225,000 |
| **3-17 PV Drive South** | | | |
| 2 (4' H x 4' W) RCB | 200' x $300 | $ | 60,000 |
| 36" RCP | 200' x $175 | $ | 35,000 |
| 48" RCP | 160' x $250 | $ | 40,000 |
| 54" RCP | 200' x $275 | $ | 55,000 |
| Drill 200' of HDPE | 200' x $3000 | $ | 600,000 |
| Traffic Control | | $ | 27,650 |
| | | $ | 817,650 |
| **3-18 Hawthorne Blvd.** | | | |
| 30" RCP | 370' x $175 | $ | 64,750 |
| Jack and Bore | 370' x $600 | $ | 222,000 |
| Inlet/Outlet | | $ | 50,000 |
| Traffic Control | | $ | 32,500 |
| | | $ | 369,250 |

**RANCHO PALOS VERDES**
**COST ESTIMATES BACK-UP**

| | | | |
|---|---|---|---|
| **3-19 Hawthorne Blvd.** | | | |
| 24" RCP | 200' x $150 | $ | 30,000 |
| Jack and Bore | 200' x $600 | $ | 120,000 |
| Inlet/Outlet | | $ | 30,000 |
| Traffic Control | | $ | 20,000 |
| | | $ | 200,000 |
| **3-24 PV Drive South** | | | |
| 36" HDPE | 1200' x $200 | $ | 240,000 |
| Drilling | 200' x $3000 | $ | 600,000 |
| Misc. Inlet/Abandon | | $ | 22,000 |
| | | $ | 862,000 |
| **3-25 Sub Region One** | | | |
| Place Ripkap | 600' x $250 | $ | 150,000 |
| | | $ | 150,000 |
| **4-4 Grayslake** | | | |
| 24" RCP | 525' x $150 | $ | 78,750 |
| Misc. Inlet/Outlet | | $ | 50,000 |
| Traffic Control | | $ | 10,000 |
| Abandonment | | $ | 18,750 |
| | | $ | 157,500 |
| **4-5 Montemalaga** | | | |
| 36" RCP | 750' x $200 | $ | 150,000 |
| Misc. Inlet/Outlet | | $ | 30,000 |
| Traffic Control | | $ | 15,000 |
| Abandonment | | $ | 15,000 |
| | | $ | 210,000 |
| **4-3 Granvia Alta Mira** | | | |
| 42" RCP | 900' x $225 | $ | 202,500 |
| 48" RCP | 450' x $250 | $ | 112,500 |
| Misc. Inlet/Outlet | | $ | 50,000 |
| Traffic Control | | $ | 75,000 |
| Catch Basins | | $ | 50,000 |
| Abandonment | | $ | 30,000 |
| | | $ | 520,000 |
| **4-1 Middlecrest Road** | | | |
| 66" RCP | 80' x $225 | $ | 26,000 |
| Misc. Inlet/Outlet | | $ | 25,000 |
| Traffic Control | | $ | 10,000 |
| Abandonment | | $ | 15,000 |
| Scale Factor | 1.3 | $ | 22,800 |
| | | $ | 98,800 |

RANCHO PALOS VERDES, LOS ANGELES 1 (LA1-50.DAT) STORM DAY 4

| LOCATION | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 400A | 28. | 80. | 28. | 80. | 3 | 2570. | 0.08000 | 0.00 | 0.00 | 0. | 2 | 9 | A35 | 0.21 |
| 9 401A | 38. | 111. | 66. | 170. | 1 | 350. | 0.18000 | 0.00 | 0.00 | 0. | 2 | 9 | A35 | 0.36 |
| 9 402A | 6. | 23. | 72. | 179. | 4 | 950. | 0.20000 | 2.50 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 403A | 1. | 1. | 73. | 180. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 404A | 1. | 1. | 74. | 180. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 405A | 1. | 1. | 75. | 181. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 406A | 1. | 1. | 76. | 182. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 407A | 8. | 26. | 84. | 204. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 7 | A35 | 0.00 |
| 9 408B | 9. | 28. | 9. | 28. | 4 | 320. | 0.22400 | 2.00 | 0.00 | 0. | 2 | 8 | A35 | 0.30 |
| 9 409AB | 9. | 28. | 93. | 231. | 1 | 1100. | 0.09000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 410A | 15. | 50. | 108. | 258. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 7 | A35 | 0.00 |
| 9 411B | 21. | 51. | 21. | 51. | 4 | 340. | 0.44000 | 2.00 | 0.00 | 0. | 2 | 13 | A35 | 0.30 |
| 9 412AB | 21. | 51. | 129. | 308. | 1 | 1180. | 0.12800 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 413A | 19. | 56. | 148. | 347. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 9 | A35 | 0.00 |
| 9 414C | 19. | 48. | 19. | 48. | 1 | 200. | 0.13000 | 0.00 | 0.00 | 0. | 190 | 12 | A35 | 0.00 |
| 9 415C | 1. | 4. | 20. | 51. | 1 | 750. | 0.18000 | 0.00 | 0.00 | 0. | 190 | 5 | A35 | 0.00 |
| 9 416AC | 20. | 51. | 168. | 397. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 417D | 34. | 101. | 34. | 101. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 9 | A35 | 0.15 |

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT



MODIFIED RATIONAL METHOD HYDROLOGY

RANCHO PALOS VERDES, LOS ANGELES 1 (LA1-51.DAT) STORM DAY 4

| LOCATION | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 400A | 28. | 80. | 28. | 80. | 3 | 2570. | 0.08000 | 0.00 | 0.00 | 0. | 2 | 9 | A35 | 0.21 |
| 9 401A | 38. | 77. | 66. | 139. | 1 | 350. | 0.18000 | 0.00 | 0.00 | 0. | 2 | 9 | A25 | 0.36 |
| 9 402A | 6. | 23. | 72. | 147. | 4 | 950. | 0.20000 | 2.25 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 403A | 1. | 1. | 73. | 147. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 404A | 1. | 1. | 74. | 147. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 405A | 1. | 1. | 75. | 148. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 406A | 1. | 1. | 76. | 149. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 407A | 8. | 26. | 84. | 169. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 7 | A35 | 0.00 |
| 9 408B | 9. | 28. | 9. | 28. | 4 | 320. | 0.22400 | 2.00 | 0.00 | 0. | 2 | 8 | A35 | 0.30 |
| 9 409AB | 9. | 28. | 93. | 197. | 1 | 1100. | 0.09000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 410A | 15. | 50. | 108. | 224. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 7 | A35 | 0.00 |
| 9 411B | 21. | 51. | 21. | 51. | 4 | 340. | 0.44000 | 2.00 | 0.00 | 0. | 2 | 13 | A35 | 0.30 |
| 9 412AB | 21. | 51. | 129. | 274. | 1 | 1180. | 0.12800 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 413A | 19. | 56. | 148. | 313. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 9 | A35 | 0.00 |
| 9 414C | 19. | 48. | 19. | 48. | 1 | 200. | 0.13000 | 0.00 | 0.00 | 0. | 190 | 12 | A35 | 0.00 |
| 9 415C | 1. | 4. | 20. | 51. | 1 | 750. | 0.18000 | 0.00 | 0.00 | 0. | 190 | 5 | A35 | 0.00 |
| 9 416AC | 20. | 51. | 168. | 363. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 417D | 34. | 101. | 34. | 101. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 9 | A35 | 0.15 |

RANCHO PALOS VERDES, LOS ANGELES 1 (LA1-51.DAT)

| LOCATION | SUBAREA AREA | SUBAREA Q | TOTAL AREA | TOTAL Q | CONV TYPE | CONV LNGTH | CONV SLOPE | CONV SIZE | CONV Z | CONTROL Q | SOIL NAME | TC | STORM DAY 3 RAIN ZONE | PCT IMPV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 400A | 28. | 25. | 28. | 25. | 3 | 2570. | 0.08000 | 0.00 | 0.00 | 0. | 2 | 9 | A35 | 0.21 |
| 9 401A | 38. | 24. | 66. | 39. | 1 | 350. | 0.18000 | 0.00 | 0.00 | 0. | 2 | 9 | A25 | 0.36 |
| 9 402A | 6. | 8. | 72. | 41. | 4 | 950. | 0.20000 | 2.25 | 0.00 | 0. | 2 | 5 | A35 | 0.30 |
| 9 403A | 1. | 0. | 73. | 41. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 404A | 1. | 0. | 74. | 41. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 405A | 1. | 0. | 75. | 41. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 406A | 1. | 0. | 76. | 41. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 99 | A35 | 0.00 |
| 9 407A | 8. | 8. | 84. | 48. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 7 | A35 | 0.00 |
| 9 408B | 9. | 9. | 9. | 9. | 4 | 320. | 0.22400 | 2.00 | 0.00 | 0. | 2 | 8 | A35 | 0.30 |
| 9 409AB | 9. | 9. | 93. | 57. | 1 | 1100. | 0.09000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 410A | 15. | 16. | 108. | 61. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 7 | A35 | 0.00 |
| 9 411B | 21. | 16. | 21. | 16. | 4 | 340. | 0.44000 | 2.00 | 0.00 | 0. | 2 | 13 | A35 | 0.30 |
| 9 412AB | 21. | 16. | 129. | 76. | 1 | 1180. | 0.12800 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 413A | 19. | 17. | 148. | 83. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 9 | A35 | 0.00 |
| 9 414C | 19. | 15. | 19. | 15. | 1 | 200. | 0.13000 | 0.00 | 0.00 | 0. | 190 | 12 | A35 | 0.00 |
| 9 415C | 1. | 1. | 20. | 16. | 1 | 750. | 0.18000 | 0.00 | 0.00 | 0. | 190 | 5 | A35 | 0.00 |
| 9 416AC | 20. | 15. | 168. | 98. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 2 | 0 | A35 | 0.00 |
| 9 417D | 34. | 32. | 34. | 32. | 0 | 0. | 0.00000 | 0.00 | 0.00 | 0. | 190 | 9 | A35 | 0.15 |