## 1. Project Information

<table>
<thead>
<tr>
<th>Application Date:</th>
<th>Assessor’s Parcel Number (APN):</th>
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<tr>
<th>Project Address:</th>
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<table>
<thead>
<tr>
<th>Applicant/Property Owner Name:</th>
<th>Designer/Contractor Contact Name:</th>
</tr>
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<tbody>
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<tr>
<th>Phone Number:</th>
<th>Phone Number:</th>
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<th>Email:</th>
<th>Email:</th>
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### Occupancy Type: (choose one)

- [ ] Single Family Residential *(one-two dwellings)*
  - # of current occupants: ______
- [ ] Multi Family Residential *(more than two dwellings)*
  - # of current occupants: ______
- [ ] Commercial
  - # of daily occupants: ______

### Description of Project:

### Graywater Source: *(indicate the type and number of fixture(s) to be diverted to graywater irrigation)*

- [ ] Shower(s) #________
- [ ] Clothes Washer(s) #________
- [ ] Lavatory *(bathroom sink)* #________
- [ ] Other: ________________________________________________________________________ #________

### Check All That Apply:

- [ ] Yes [ ] No  This property is served by municipal water/sewer

  **If Yes, name of Water Provider:** ____________________________________________________

- [ ] Yes [ ] No  This property contains a well

- [ ] Yes [ ] No  This property contains an onsite wastewater treatment system

- [ ] Yes [ ] No  This property has high groundwater within 3’ of the soil surface.

- [ ] Yes [ ] No  Does the system design include a surge tank or storage of graywater?*
  - [ ] Yes [ ] No  Attach specifications that describe how the storage tank will automatically empty every 24 hours.
  - [ ] Yes [ ] No  Attach specifications showing how graywater overflow will be piped to sewer/septic by gravity.

*Note: Storage tanks are not recommended. Best management practice is to direct graywater immediately to irrigation field.

### Topography of Area to be Irrigated with Graywater:

- [ ] Flat
- [ ] Slightly sloped
- [ ] More than 30% slope

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I certify that I have read and understand the California Plumbing Code requirements for graywater irrigation systems. I understand that if there is a complaint investigation that verifies a violation of the applicable standards, then the property owner will be subject to cost recovery and any fines resulting from the investigation *(Calif. Health & Safety Code Section 510).*

Applicant Signature:_____________________________ Date: ______________________

Printed Name:_________________________________________
2. Estimated Daily Graywater Production – Residential Only (Attach Calculations for Commercial Projects)

Calculation Method (choose one)

☐ CPC estimate (Assign 2 occupants to master bedroom and 1 occupant to each additional bedroom)

Laundry: _______ occupants x 15 gallons/day _________ gal/day

Shower/sink: _______ occupants x 25 gallons/day _________ gal/day

TOTAL _________ gal/day

☐ Estimate of graywater produced from winter (Dec-Feb) water use records (attach utility bill)

Laundry: Avg. water use ÷ 30 days _____(gallons/day) x 0.22 _________ gal/day

Shower: Avg. water use ÷ 30 days _____(gallons/day) x 0.17 _________ gal/day

Sink: Avg. water use ÷ 30 days _____(gallons/day) x 0.03 _________ gal/day

TOTAL _________ gal/day

3. Irrigation System Capacity

Actual Irrigation Field Area: ____________ ft²

Minimum Required Irrigation Field Area:

___________(gal/day) ÷ ________________gal/ft²/day = ____________ft²

From Section 2 Maximum Absorption Capacity* Minimum Required Irrigation Field Area

*Use the table below to find the maximum absorption capacity of your soil

<table>
<thead>
<tr>
<th>DESIGN OF SIX TYPICAL SOILS TYPE OF SOIL</th>
<th>MINIMUM SQUARE FEET OF IRRIGATION/LEACHING AREA PER 100 GALLONS OF ESTIMATED GRAY WATER DISCHARGE PER DAY</th>
<th>MAXIMUM ABSORPTION CAPACITY IN GALLONS PER SQUARE FOOT OF IRRIGATION/LEACHING AREA FOR A 24-HOUR PERIOD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coarse sand or gravel</td>
<td>20</td>
<td>5.0</td>
</tr>
<tr>
<td>Fine sand</td>
<td>25</td>
<td>4.0</td>
</tr>
<tr>
<td>Sandy loam</td>
<td>40</td>
<td>2.5</td>
</tr>
<tr>
<td>Sandy clay</td>
<td>60</td>
<td>1.7</td>
</tr>
<tr>
<td>Clay with considerable sand or gravel</td>
<td>90</td>
<td>1.1</td>
</tr>
<tr>
<td>Clay with small amounts of sand or gravel</td>
<td>120</td>
<td>0.8</td>
</tr>
</tbody>
</table>
4. Irrigation Method  (Select and complete all that apply to the project)

☐ Gravity to Mulch Basins (Branched Drain)

Total mulch basin surge capacity: ___________gal/day ÷ 7.48 gal/ft³ ÷ 0.80 = ___________ft³

From Section 2

☐ Effluent Pump to Mulch Basins

Make and model of effluent pump (attach specifications): ______________

Total mulch basin surge capacity: ___________gal/day ÷ 7.48 gal/ft³ ÷ 0.80 = ___________ft³

From Section 2

☐ Drip Irrigation System

Drip emitter flow rate: _____ gal/hour  
Total number of drip emitters: __________

Make and model of pump/filtration system (attach specifications): ______________________________

Make and model of backflow prevention device (attach specifications): __________________________

☐ Constructed Wetland (1-day retention time)

Total capacity: ___________gal/day ÷ 7.48 gal/ft³ ÷ 0.25 = ___________ft³

From Section 2

5. Irrigation Plan

Using the attached graph paper (or your own), draw a map and legend of graywater system components that shows the pathway of piping from the fixture(s) inside the building to the landscape/irrigation field. If graywater is directed to the front yard, show the street frontage and your driveway. In your drawing, include the location of all:

• Graywater valves
• Graywater pipes and fittings  
  (indicate material and size)
• Clean-outs
• Pumps and surge tanks (if applicable)
• Graywater outlets and mulch basins
• Backflow prevention (drip only)
• Setback of graywater outlets to property lines and buildings*
• Setback of graywater outlets to onsite wastewater treatment system tanks and leachfields* (if applicable).
• Setback of graywater outlets to wells and drainages* (if applicable).

*See table below for required setbacks. See the California Plumbing Code for additional notes about setbacks.

CPC Table 1602.4 - LOCATION OF GRAY WATER SYSTEM

<table>
<thead>
<tr>
<th>MINIMUM HORIZONTAL DISTANCE IN CLEAR REQUIRED FROM</th>
<th>SURGE TANK (feet)</th>
<th>SUBSURFACE AND SUBSOIL IRRIGATION FIELD AND MULCH BASIN (feet)</th>
<th>DISPOSAL FIELD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Building structures</td>
<td>5</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td>Property line adjoining private property</td>
<td>5</td>
<td>1.5</td>
<td>5</td>
</tr>
<tr>
<td>Water supply wells</td>
<td>50</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Streams and lakes</td>
<td>50</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Sewage pits or cesspools</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Sewage disposal field</td>
<td>5</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Septic tank</td>
<td>0</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>On-site domestic water service line</td>
<td>5</td>
<td>5</td>
<td>0</td>
</tr>
<tr>
<td>Pressurized public water main</td>
<td>10</td>
<td>10</td>
<td>10</td>
</tr>
</tbody>
</table>
APPLICATION FOR GRAYWATER IRRIGATION SYSTEM PERMIT

GRAYWATER IRRIGATION FIELD PLAN  Scale = _____” = ______’

APN #_____________________  Address:_________________________________________________________

LEGEND:
Example Graywater Irrigation Plan