

GEOTECHNICAL REPORT WORKSHEET (& DEWATERING PLAN)

1. Project Information

Which Projects Must Complete This Worksheet?

Applicants for **all projects** anticipating needing to perform construction dewatering must complete this worksheet. These requirements apply to projects that have not yet applied for a Building Permit or not yet received its Planning Conditions of Approval as of January 14, 2016.

Please note that this information must be stamped by a California licensed Geotechnical Engineer and will be made available to the public.

Project Name: _____ **APN #** _____

Project Address: _____

Cross Streets: _____

Applicant/Developer Name: _____

Project Phase(s): _____ **of** _____ **Engineer:** _____

Project Description: _____

2. Description of need for Dewatering and Alternative Construction Methods Considered:

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3. Dewatering information

a. Depth to groundwater, maximum depth of excavation (including utilities, pits, shafts, etc.), proposed maximum depth of dewatering wells/pumping, and maximum excavation depth.	
b. Description of dewatering technique, including: location of dewatering wells, size and anticipated flow from each pump. Include a schematic diagram showing pipe and pump sizes and locations and sizes of all tanks, fill station, pipe route to nearest storm drain inlet (including flexible and rigid pipe locations), and all street and sidewalk impacts including trenching, sawcuts, and asphalt patching	

between project site and storm drain inlet.	
c. Anticipated dewatering flow rate and total dewatering duration.	
d. Controls to be utilized	<input type="checkbox"/> Settling Tank <input type="checkbox"/> Turbidity Curtain <input type="checkbox"/> Other (describe)
e. Location of anticipated discharge including final receiving water (creek name or Bay)	
f. All wells and other dewatering sites within a 400 foot radius (roughly one City block) of the property that may interact with dewatering activity, using information available from the City. State or show the exact location of these dewatering sites.	
g. Determine the radius of influence (i.e. extent of cone of depression) from each dewatering well as a function of time, based on local soil and groundwater conditions. Prepare a map and cross sections of the cone(s) of depression. State whether it is reasonably likely that the proposed dewatering will cause effects (including settlement or movement) on off-site structures or infrastructure, including the right of way, easements, and utilities within public utility easements. State whether it is reasonably likely that the proposed dewatering will reduce the amount of water taken up by any vegetation or trees to a level that will affect the health or viability of the vegetation or trees. Utilize an Urban Forestry Sub Consultant (certified arborist) to verify any such effects on trees.	
Please attach map	

4. Offsite Effects and Avoidance Measures

- Yes, offsite effects are anticipated and avoidance measures are detailed below
- No, offsite effects are not anticipated

To the extent that the qualified professional states that off-site effects are reasonably likely to occur, identify avoidance measures to be implemented that will minimize the type and severity of those effects. Avoidance measures are also to be employed to the extent practical to minimize the flow rate and duration of the pumping, even when off-site effects are not specifically identified. Avoidance measures may include, for example: reducing well count, well depth, well location, pumping rate, and/or duration of pumping; supplemental irrigation of trees or vegetation, soil amendment, or other plant protection methods recommended by a certified arborist; alternative dewatering or construction methods.

5. Monitoring Plan

Describe monitoring plan to assess any actual effects on vegetation, trees, structures and infrastructure. (regardless if yes or no was checked in item 4 above)

6. Certification: The geotechnical study and description and extent of cone of depression as well as determination of offsite effects must be stamped by a California licensed Geotechnical Engineer

Name of Reviewer _____

Signature _____

License Number/Stamp _____