To: Chair Jennings and Members of the Planning Commission

Prepared by: Aakash Shah, Contract Planner

Approved by: Bonnie Blue, Planning Director

Date prepared: April 9, 2020

Meeting date: April 20, 2020

Subject: De Minimis Waiver No. 20-009—An application for a new onsite wastewater treatment system

Location: 5878 Deerhead Road, partially within the appealable coastal zone

APN: 4469-015-012

Owner: Donald H. Ball and Marjorie C. Ball Survivor's Trust U/T/D

RECOMMENDED ACTION: Receive Planning Director’s report on De Minimis Waiver (DMW) No. 20-009 for a new onsite wastewater treatment system (OWTS) to replace the existing OWTS.

DISCUSSION: This agenda item is for informational and reporting purposes only. Pursuant to Malibu Local Coastal Program Local Implementation Plan (LIP) Section 13.4.11, the requirement for a coastal development permit may be waived through a De Minimis Waiver issued by the Planning Director for the items described in “General Requirements for De Minimis Waiver,” below that are not located within the Appealable Jurisdiction of the California Coastal Commission, as depicted on the Post-LCP Certification Permit and Appeal Jurisdiction Map of the City of Malibu.

On April 9, 2020, the Planning Director issued DMW No. 20-009. Pursuant to LIP Section 13.4.11(A), the Director’s decision on whether to issue a De Minimis Waiver is not locally appealable.

LIP Section 13.4.11(C) further states that the Planning Director shall report in writing to the Planning Commission any De Minimis Waiver that has been issued by the City.

If, after consideration of the De Minimis Waiver and any public objections to it, the Planning Commission requests that the waiver not be effective, then the applicant shall be advised.
that a coastal development permit is required, if the applicant wishes to pursue the application.

*LIP Sections 13.4.11(A) (General Requirements for De Minimis Waiver)*

Where the improvements are not otherwise exempt pursuant to LIP Section 13.4, and the required findings of LIP Section 13.4.11(B) are met, the Planning Director may issue a DMW for: 1) improvements to an OWTS serving a structure that was damaged or destroyed as a result of a natural disaster where the improvements involve installing a new system or upgrading an existing system to an advanced system on the same lot; and 2) minor improvements to existing driveways or access roads that are required by the Los Angeles County Fire Department after a natural disaster, such as minor changes to the width or grade of driveways or access roads.

The project and required findings are more specifically described in the Planning Director’s decision attached hereto.

PUBLIC NOTICE: A Notice of De Minimis Waiver Application was posted on the subject property.

ATTACHMENT: DMW No. 20-009
PLANNING DEPARTMENT

De Minimis Waiver - OWTS

De Minimis Waiver No. 20-009
Categorical Exemption No. 20-040
5878 Deerhead Road
APN 4469-015-012

NOTICE IS HEREBY GIVEN that the City of Malibu has APPROVED an application filed by Tim Ball, on behalf of the property owner, Donald H. Ball and Marjorie C. Ball Survivor's Trust U/T/D, for a De Minimis Waiver (DMW) for a new onsite wastewater treatment system (OWTS).

Proposed Project Description

The previously existing single-family residence was destroyed by the 2018 Woolsey Fire. As a result of the damage sustained to the existing septic tank, a new OWTS will be installed to replace the existing septic tank and its components as described in more detail below (Attachment – Department Review Sheets including OWTS Plot Plan):

- 3,634-gallon MicroSepTec ES12 Tank with ultraviolet (UV) disinfection unit,
- Two new seepage pits, and
- Two new future seepage pit dedications.

The existing OWTS is sited in the south side of the property near to side yard setback and is proposed to be abandoned. The new OWTS will be sited to the north of the previously existing single-family residence. The proposed new system will not result in any non-exempt grading.

California Environmental Quality Act

Pursuant to the authority and criteria contained in the California Environmental Quality Act (CEQA), the Planning Director has analyzed the proposed project. The Planning Director has found that this project is listed among the classes of projects that have been determined not to have a significant adverse effect on the environment. Therefore, the project is categorically exempt from the provisions of CEQA pursuant to Section 15303(d) – New Construction or Conversion of Small Structures. The Planning Director has further determined that none of the six exceptions to the use of a categorical exemption applies to this project (CEQA Guidelines Section 15300.2).

Local Coastal Program (LCP)

The Malibu LCP consists of a Land Use Plan (LUP) and LIP. The LUP contains programs and policies to implement the California Coastal Act in Malibu. The purpose of the LIP is to carry out the policies of the LUP. The LIP contains specific policies and regulations to which every project requiring an entitlement must adhere.
De Minimis Waiver Requirements

The Planning Director may waive the LCP’s requirement for a coastal development permit (CDP) for a project that is not otherwise exempt from a CDP under LIP Section 13.4 and process a DMW if the DMW findings discussed below can be made, if the development is not in a location where an action on the development would be appealable to the California Coastal Commission (CCC) (See LIP Chapter 2 – Definitions), and the proposed project consists of:

- improvements to an OWTS serving a structure that was damaged or destroyed as a result of a natural disaster, where the improvements involve installing a new system or upgrading an existing system to an advanced system on the same lot, or
- minor improvements to existing driveways or access roads that are required by the Fire Department after a natural disaster, such as minor changes to the width or grade of driveways or access roads.

The subject project is eligible for a DMW in that it is a replacement for an OWTS that was serving a structure destroyed as a result of a natural disaster that is not otherwise exempt from a CDP under LIP Section 13.4, it is not located in the CCC appeal zone, and the required DMW findings are made below.

De Minimis Waiver Findings

Based on the foregoing evidence contained within the record and pursuant to LIP Section 13.4.11, the Planning Director hereby makes the following findings of fact.

Onsite Wastewater Treatment System De Minimis Waiver (LIP Section 13.4.11)

Finding 1. That the OWTS or driveway/road improvements have no potential for adverse effects, either individually or cumulatively, on coastal resources.

The City geotechnical staff, City Environmental Health Administrator, and City Public Works Department have reviewed the proposed OWTS and found it to meet the requirements of the Malibu Municipal Code and LCP. The proposed project is for the abandonment of an existing OWTS and installation of a new 3,634-gallon MicroSepTec ES12 Tank with UV disinfection unit, two new seepage pits located beneath the driveway, and two new future seepage pit dedications, one located beneath the driveway and the other located to the north side of the residence. The project will upgrade and improve treatment effectiveness compared to the existing system. The Applicant is required to record a covenant requiring the proper operation and maintenance of the OWTS. In addition, conditions of approval have been included to require continued operation, maintenance and monitoring of the subject system. The conditions and requirements will ensure that the new OWTS does not have the potential for adverse effects, either individually or cumulatively, on coastal resources.

Finding 2. That the OWTS or driveway/road improvements are consistent with the certified Malibu Local Coastal Program, including the resource protection policies, as applicable.

As discussed in Finding 1, the project as conditioned has been found to meet the requirements of the MMC and LCP. The project is consistent with the certified LCP, including the resource protection policies, in that no native trees, environmentally sensitive habitat area, public scenic views or cultural resources will be affected by the project.
Finding 3. If an OWTS is to be relocated on the lot, that the Director, in consultation with Environmental Health Administrator, has determined the relocation is necessary to better protect coastal resources.

The site of the existing OWTS does not provide the necessary setbacks to the foundation of the residence and given the size of the new OWTS, the new OWTS to be relocated on the subject property. The proposed OWTS will be sited to the north of the previously existing single-family residence, in an area that has been previously disturbed and the new seepage pits will be located beneath the driveway. Therefore, this will not result in any new or more significant impacts to natural or cultural resources. Additionally, the purposed development area will have the necessary percolation conditions.

Finding 4. If driveway/road improvements are proposed, that: a) they are in the same general alignment as the existing road, b) they are not located in environmentally sensitive habitat area (ESHA), c) they do not remove or encroach within the protected zone of native trees, and d) they do not adversely impact visual resources.

This finding does not apply.

Finding 5. That the development is not in a location where an action on the development would be appealable to the Coastal Commission (See LIP Chapter 2 – Definitions).

The subject property is partially located within the CCC Appeal Jurisdiction but the proposed development on the subject property does not lie within the appeal jurisdiction. As a result, this finding does not apply.

Project Timeline: De Minimis Waiver Application

- Application Date: January 1, 2020
- Posting of Property: April 4, 2020
- Notice of Determination: April 10, 2020
- Planning Commission Reporting: April 20, 2020

Public Notice Requirements

At the time the application is submitted for filing, the applicant must post, at a conspicuous place as close to the site as possible that is easily accessible by the public and approved by the City, notice that an application for a DMW has been submitted to the City on a form containing a general description of the proposed development. The applicant submitted evidence of posting the required notice at a location approved by the City on April 4, 2020.

The Planning Director shall issue a notice of determination on the application which shall be reported to the Planning Commission. The notice of determination shall be provided to all known interested parties, including the executive director of the coastal commission, at least ten (10) days prior to the waiver determination being reported to the planning commission. The Notice Of Determination on this application was issued on April 10, 2020.
Approval of DMW No. 20-009

Based on the foregoing findings and evidence contained within the record, the Planning Director hereby approves DMW No. 20-009, subject to the conditions of approval.

Conditions of Approval

Standard Conditions

1. The property owners, and their successors in interest, shall indemnify and defend the City of Malibu and its officers, employees and agents from and against all liability and costs relating to the City's actions concerning this project, including (without limitation) any award of litigation expenses in favor of any person or entity who seeks to challenge the validity of any of the City's actions or decisions in connection with this project. The City shall have the sole right to choose its counsel and property owners shall reimburse the City’s expenses incurred in its defense of any lawsuit challenging the City’s actions concerning this project.

2. This approval is for the abandonment of an existing OWTS and installation of a new 3,634-gallon MicroSepTec ES12 Tank with UV disinfection unit, two new seepage pits, and two new future seepage pit dedications located underneath the existing driveway. This approval does not involve any non-exempt grading.

3. Subsequent submittals for this project shall be in substantial compliance with plans on file with the Planning Department, dated as received on April 10, 2020. In the event the project plans conflict with any condition of approval, the condition shall take precedence.

4. Pursuant to LIP Section 13.18.2, this permit and rights conferred in this approval shall not be effective until the property owner signs, notarizes, and returns the Acceptance of Conditions Affidavit accepting the conditions set forth herein. The applicant shall file this form with the Planning Department within 10 working days of this decision and/or prior to issuance of any development permit.

5. The applicant shall submit four (4) complete sets of plans to the Planning Department for consistency review and approval prior to the issuance of an OWTS permit.

6. This decision, signed Affidavit of Acceptance of Conditions, and all attached Department Review Sheets shall be copied in their entirety and placed directly onto a separate plan sheet behind the cover sheet of the development plans submitted to the Building Safety Division for plan check.

7. A de minimis waiver shall expire and be of no further force and effect if the authorized OWTS or driveway or access road improvements are not commenced pursuant to a valid grading and/or building permit, as applicable, within five years of the effective date of the waiver. If expired, a coastal development permit or another waiver shall be required.

8. Any questions of intent or interpretation of any condition of approval will be resolved by the Planning Director upon written request of such interpretation.

9. All development shall conform to requirements of the Environmental Sustainability Department, City Coastal Engineer, City geotechnical staff, City Environmental Health Administrator, City Biologist, City Public Works Department, Los Angeles County Waterworks District No. 29 and the Los Angeles County Fire Department, as applicable. Notwithstanding this review, all required permits shall be secured.

10. Minor changes to the approved plans or the conditions of approval may be approved by the Planning Director, provided such changes achieve substantially the same results and the project is still in compliance with the MMC and the LCP. An application with all required materials and fees may be required.
11. Pursuant to LIP Section 13.4.11, this permit shall not become effective until the project is reported to the Planning Commission and the Planning Commission does not request that the project be processed as a CDP.

12. The property owner must submit payment for all outstanding fees payable to the City prior to issuance of any building permit, including grading or demolition.

Cultural Resources

13. In the event that potentially important cultural resources are found in the course of geologic testing or during construction, work shall immediately cease until a qualified archaeologist can provide an evaluation of the nature and significance of the resources and until the Planning Director can review this information. Thereafter, the procedures contained in LIP Chapter 11 and those in MMC Section 17.54.040(D)(4)(b) shall be followed.

14. If human bone is discovered during geologic testing or during construction, work shall immediately cease, and the procedures described in Section 7050.5 of the California Health and Safety Code shall be followed. Section 7050.5 requires notification of the coroner. If the coroner determines that the remains are those of a Native American, the applicant shall notify the Native American Heritage Commission by phone within 24 hours. Following notification of the Native American Heritage Commission, the procedures described in Section 5097.94 and Section 5097.98 of the California Public Resources Code shall be followed.

Environmental Health

15. The final Architectural Site Plan (Sheet A1.0) and the Grading Plans must show the proposed OWTS, including the treatment tank, present/future seepage pits, and all lines of connection from the residence.

16. A final plot plan shall be submitted showing an OWTS design meeting the minimum requirements of the Malibu Municipal Code and the LCP, including necessary construction details, the proposed drainage plan for the developed property, and the proposed landscape plan for the developed property. The OWTS Plot Plan shall show essential features of the OWTS, existing improvements, and proposed/new improvements. The plot must fit on an 11” x 17” sheet leaving a 5” left margin clear to provide space for a City-applied legend. If the plan scale is such that more space is needed to clearly show construction details and/or all necessary setbacks, larger sheets may also be provided (up to a maximum size of 18” x 22” for review by Environmental Health).

17. Final OWTS Design Report, Plans, and System Specifications: A final OWTS design report and construction drawings with system specifications shall be submitted to describe the OWTS design basis and all components proposed for use in the construction of the OWTS. All plans and reports must be signed by the California-registered civil engineer, registered environmental health specialist, or professional geologist who is responsible for the design. The final OWTS design report and construction drawings shall be submitted with the designer’s signature, professional registration number, and stamp (if applicable).

18. The final design report shall contain the following information (in addition to the items listed above).
   a. Required treatment capacity for wastewater treatment and disinfection systems. The treatment capacity shall be specified in terms of flow rate, gallons per day, and shall be supported by calculations relating the treatment capacity to the number of bedroom equivalents, plumbing drainage fixture equivalents, and the subsurface effluent dispersal system acceptance rate. The drainage fixture unit count must be clearly identified in association with the design treatment capacity, even if the design is based on the number
of bedrooms. Average and peak rates of hydraulic loading to the treatment system shall be specified in the final design;
b. Sewage and effluent pump design calculations (as applicable).
c. Description of proposed wastewater treatment and/or disinfection system equipment. State the proposed type of treatment system(s) (e.g., aerobic treatment, textile filter ultraviolet disinfection, etc.); major components, manufacturers, and model numbers for "package" systems; and conceptual design for custom engineered systems;
d. Specifications, supporting geology information, and percolation test results for the subsurface effluent dispersal portion of the onsite wastewater disposal system. This must include the proposed type of effluent dispersal system (drainfield, trench, seepage pit, subsurface drip, etc.) as well as the system's geometric dimensions and basic construction features. Supporting calculations shall be presented that relate the results of soils analysis or percolation/infiltration tests to the projected subsurface effluent acceptance rate, including any unit conversions or safety factors. Average and peak rates of hydraulic loading to the effluent dispersal system shall be specified in the final design. The projected subsurface effluent acceptance rate shall be reported in units of total gallons per day and gallons per square foot per day. Specifications for the subsurface effluent dispersal system shall be shown to accommodate the design hydraulic loading rate (i.e., average and peak OWTS effluent flow, reported in units of gallons per day). The subsurface effluent dispersal system design must take into account the number of bedrooms, fixture units and building occupancy characteristics; and
e. All final design drawings shall be submitted with the wet signature and typed name of the OWTS designer. If the scale of the plan is such that more space is needed to clearly show construction details, larger sheets may also be provided (up to a maximum size of 18 inch by 22 inch, for review by Environmental Health). Note: For OWTS final designs, full-size plans are required for review by the Building Safety Division and/or the Planning Department.

19. Final plans shall clearly show the locations of all existing OWTS components (serving pre-existing development) to be abandoned and provide procedures for the OWTS' proper abandonment in conformance with the MMC.

20. The following note shall be added to the plan drawings included with the OWTS final design: “Prior to commencing work to abandon, remove, or replace the existing OWTS components, an 'OWTS Abandonment Permit' shall be obtained from the City of Malibu. All work performed in the OWTS abandonment, removal or replacement area shall be performed in strict accordance with all applicable federal, state, and local environmental and occupational safety and health regulatory requirements. The obtainment of any such required permits or approvals for this scope of work shall be the responsibility of the applicant and their agents.”

21. A compliance agreement running with the land shall be executed between the City of Malibu and the holder of the fee simple absolute as to subject real property and recorded with the City of Malibu Recorder's Office. Said compliance agreement shall serve as constructive notice to any future purchaser for value that the onsite wastewater treatment system serving subject property is not functioning properly and is in need of repair or replacement in order to bring it into compliance with all applicable laws and regulations. The covenant has been submitted to the City Recorder; it is the applicant's responsibility to ensure covenant recordation.

22. All final project plans shall be submitted for Environmental Health review and approval. These plans must be approved by the Building Safety Division prior to receiving Environmental Health final approval.

23. Proof of ownership of subject property shall be submitted to the City Environmental Health Administrator.
24. An operations and maintenance manual specified by the OWTS designer shall be submitted to the property owner and maintenance provider of the proposed OWTS.

25. A maintenance contract executed between the owner of the subject property and an entity qualified in the opinion of the City of Malibu to maintain the proposed onsite wastewater disposal system after construction shall be submitted. Note only original “wet signature” documents are acceptable.

26. Prior to final Environmental Health approval, a covenant running with the land shall be executed between the City of Malibu and the holder of the fee simple absolute as to subject real property and recorded with the City of Malibu Recorder’s Office. Said covenant shall serve as constructive notice to any future purchaser for value that the onsite wastewater treatment system serving subject property is an advanced method of sewage disposal pursuant to the City of MMC. Said covenant shall be provided by the City of Malibu Environmental Health Administrator.

27. The project geologist/geotechnical consultant final approval shall be submitted to the City Environmental Health Administrator.

28. The City geotechnical staff final approval shall be submitted to the City Environmental Health Administrator.

29. The City public works department staff final approval shall be submitted to the City Environmental Health Administrator.

30. City of Malibu Planning Department final approval of the OWTS plan shall be obtained.

31. A final fee in accordance with the adopted fee schedule at the time of final approval shall be paid to the City of Malibu for Environmental Health review of the OWTS design and system specifications.

32. In accordance with MMC Chapter 15.44, prior to Environmental Health approval, an application shall be made to the Environmental Sustainability Department for an OWTS operating permit.

Public Works

33. A Local Storm Water Pollution Prevention Plan shall be provided prior to the issuance of the grading/building permits for the project. This plan shall include an Erosion and Sediment Control Plan (ESCP) that includes, but not limited to:

<table>
<thead>
<tr>
<th>Erosion Controls</th>
<th>Scheduling</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Preservation of Existing Vegetation</td>
</tr>
<tr>
<td>Sediment Controls</td>
<td>Silt Fence</td>
</tr>
<tr>
<td></td>
<td>Sand Bag Barrier</td>
</tr>
<tr>
<td></td>
<td>Stabilized Construction Entrance</td>
</tr>
<tr>
<td>Non-Storm Water Management</td>
<td>Water Conservation Practices</td>
</tr>
<tr>
<td></td>
<td>Dewatering Operations</td>
</tr>
<tr>
<td>Waste Management</td>
<td>Material Delivery and Storage</td>
</tr>
<tr>
<td></td>
<td>Stockpile Management</td>
</tr>
<tr>
<td></td>
<td>Spill Prevention and Control</td>
</tr>
<tr>
<td></td>
<td>Solid Waste Management</td>
</tr>
<tr>
<td></td>
<td>Concrete Waste Management</td>
</tr>
<tr>
<td></td>
<td>Sanitary/Septic Waste Management</td>
</tr>
</tbody>
</table>
34. Best Management Practices (BMPs) shall be in accordance to the latest version of the California Stormwater Quality Association (CASQA) BMP Handbook. Designated areas for the storage of construction materials, solid waste management, and portable toilets must not disrupt drainage patterns or subject the material to erosion by site runoff.

35. The developer’s consulting engineer shall sign the final plans prior to the issuance of permits.

Construction

36. Construction hours shall be limited to Monday through Friday from 7:00 a.m. to 7:00 p.m. and Saturdays from 8:00 a.m. to 5:00 p.m. No construction activities shall be permitted on Sundays or City-designated holidays.

37. Construction management techniques, including minimizing the amount of equipment used simultaneously and increasing the distance between emission sources, shall be employed as feasible and appropriate. All trucks leaving the construction site shall adhere to the California Vehicle Code. In addition, construction vehicles shall be covered when necessary; and their tires rinsed prior to leaving the property.

Prior to Final Inspection

38. Prior to a final Building inspection, the applicant shall provide a final Waste Reduction and Recycling Summary Report (Summary Report) and obtain the approval from the Environmental Sustainability Department. The final Summary Report shall designate all material that were land filled or recycled, broken down by material types.

39. The applicant shall request a final Planning Department inspection prior to final inspection by the Building Safety Division.

Deed Restrictions

40. The property owner is required to execute and record a deed restriction which shall indemnify and hold harmless the City, its officers, agents, and employees against any and all claims, demands, damages, costs and expenses of liability arising out of the acquisition, design, construction, operation, maintenance, existence or failure of the permitted project in an area where an extraordinary potential for damage or destruction from wildfire exists as an inherent risk to life and property. The property owner shall provide a copy of the recorded.

Fixed Conditions

41. This DMW runs with the land and binds all future owners of the property.

42. Violation of any of the conditions of this approval may be cause for revocation of this permit and termination of all rights granted thereunder.

Appeals and Reporting

APPEALS – The Planning Director’s decision on whether to issue a de minimis waiver is not locally appealable. If, after consideration of the waiver and any public objections to it, the Planning Commission requests that the waiver not be effective, then the applicant shall be advised that a coastal development permit is required for the OWTS or road improvements. Otherwise, the waiver is effective immediately after the Planning Commission meeting where the matter is heard.
REPORTING – Pursuant to LIP Section 13.4.11, this permit shall be reported to the Planning Commission and is tentatively scheduled to be reported at the **April 20, 2020** Regular Planning Commission meeting. Copies of this report will be available at www.malibucity.org/agendacenter and to all those wishing to receive such notification by contacting the Case Planner. This permit will not become effective until completion of the Planning Commission review of the permit pursuant to California Code of Regulations Section 13153.

Please contact Aakash Shah in the Planning Department at ashah@malibucity.org, for further information. Copies of all related documents can be reviewed by contacting the Case Planner.

Date: April 10, 2020

Prepared by: Aakash Shah  
Contract Planner

Approved by: Bonnie Blue  
Planning Director

Attachment: Department Review Sheets including OWTS Plot Plan
ACCEPTANCE OF CONDITIONS AFFIDAVIT

The undersigned property owner(s) acknowledges receipt of the City of Malibu’s decision of approval and agrees to abide by all terms and conditions for De Minimis Waiver No. 20-009, dated April 10, 2020, for the project located at 5878 Deerhead Road, Malibu, CA 90265. The permit and rights conferred in this approval shall not be effective until all property owner(s) signs and returns this notarized affidavit to the City of Malibu Planning Department within ten (10) working days of the decision and/or prior to issuance of any development permit.

______________________  ____________________________________
Date   Signature of Property Owner

____________________________________
Print Property Owner Name

______________________  ____________________________________
Date   Signature of Property Owner

____________________________________
Print Property Owner Name

ALL-PURPOSE ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA
County of Los Angeles  \{ SS \}

On ________________, before me, Notary Public, personally appeared ________________________________, who proved (date) (name)

to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under penalty of perjury under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(Notary Public's signature in and for said County and State)  (seal)
TO: City of Malibu Environmental Health Administrator  DATE: 1/2/2020
FROM: City of Malibu Planning Department

PROJECT NUMBER: APRWF 20-001
JOB ADDRESS: 5878 DEERHEAD RD
APPLICANT / CONTACT: Tim Ball
APPLICANT ADDRESS: 5878 Deerhead Rd
Malibu, CA 90265
APPLICANT PHONE #: (310) 600-9436
APPLICANT FAX #: 
APPLICANT EMAIL: timbarchitect@gmail.com
PROJECT DESCRIPTION: New 1500 gallon OWTS, abandonment of existing

TO: Malibu Planning Department and/or Applicant
FROM: City of Malibu Environmental Health Reviewer

Conformance Review Complete for project submittals reviewed with respect to the City of Malibu Local Coastal Plan/Local Implementation Plan (LCP/LIP) and Malibu Municipal Code (MMC). The Conditions of Planning conformance review and plan check review comments listed on the attached review sheet(s) (or else handwritten below) shall be addressed prior to plan check approval.

Conformance Review Incomplete for the City of Malibu LCP/LIP and MMC. The Planning stage review comments listed on the City of Malibu Environmental Health review sheet(s) shall be addressed prior to conformance review completion.

OWTS Plot Plan:  □ NOT REQUIRED  □ REQUIRED (attached hereto)  □ REQUIRED (not attached)

Signature:  
Date:  January 7, 2020

The applicant must submit to the City of Malibu Environmental Health Specialist to determine whether or not an onsite wastewater treatment system (OWTS) Plot Plan approval is required.

The Environmental Health Specialist may be contacted Tuesday and Thursday from 8:00 am to 11:00 am, or by calling (310) 456-2489, extension 364.

Rev 141008
CITY OF MALIBU
Environmental Health • Environmental Sustainability Department
23825 Stuart Ranch Road • Malibu, California • 90265-4861
Phone (310) 456-2489 • Fax (310) 456-7650 • www.malibucity.org

ENVIRONMENTAL HEALTH REVIEW SHEET

PROJECT INFORMATION

Applicant: Tim Ball
timarchitect@gmail.com
(name and email address)

Project Address: 5878 Deerhead Road
Malibu, California 90265

Planning Case No.: APRWF 19-001
Project Description: New 1500 gallon OWTS, abandonment of existing
Date of Review: January 7, 2020
Reviewer: Matt Janousek
Signature: [Signature]
Contact Information: Phone: (310) 456-2489 ext. 307 Email: mjanousek@malibucity.org

SUBMITTAL INFORMATION

Architectural Plans: Tim Ball: Plans undated, received 12-13-2019
Grading Plans:
OWTS Plan: Gold Coast Geoservices: OWTS plan dated 11-15-2019 (received 1-2-2020)
Geology Report:
Miscellaneous: City of Malibu: EH BPC for PWVF 19-070 completed 12-19-2019
Previous Reviews:

REVIEW FINDINGS

Planning Stage: ☑ CONFORMANCE REVIEW COMPLETE for the City of Malibu Local Coastal Program (LCP)/Local Implementation Plan (LIP) and Malibu Municipal Code (MMC). The listed conditions of Planning stage conformance review and plan check review comments shall be addressed prior to plan check approval.

☐ CONFORMANCE REVIEW INCOMPLETE for the City of Malibu LIP and MMC. The listed Planning stage review comments shall be addressed prior to conformance review completion.

OWTS Plot Plan: ☐ NOT REQUIRED
☑ REQUIRED (attached hereeto) ☐ REQUIRED (not attached)

Based upon the project description and submittal information noted above, a conformance review was completed for a new advanced onsite wastewater treatment system (OWTS) proposed to serve the onsite wastewater treatment and disposal needs of the subject property. The proposed advanced OWTS meets the minimum requirements of the Malibu Municipal Code (MMC) and the City of Malibu Local Coastal Program (LCP)/Local Implementation Plan (LIP). Please distribute this review sheet to all of the project consultants and, prior to final approval, provide a coordinated submittal addressing all conditions for final approval and plan check items.
The conditional conformance findings hereby transmitted complete the Planning stage Environmental Health review of the subject development project. In order to obtain Environmental Health final approval of the project OWTS Plot Plan and associated construction drawings (during Building Safety plan check), all conditions and plan check items listed below must be addressed through submittals to the Environmental Health office.

Conditions of Planning Conformance Review for Building Plan Check Approval:

1) **OWTS on Architectural and Grading Plans:** The final Architectural Site Plan and Grading Plans must show the proposed OWTS, including the treatment tank, present/future seepage pits, and all lines of connection.

2) **Final Onsite Wastewater Treatment System (OWTS) Plot Plan:** A final plot plan prepared by a City Registered OWTS Designer shall be submitted showing an OWTS design meeting the minimum requirements of the Malibu Municipal Code (MMC) and the Local Coastal Program (LCP)/Local Implementation Plan (LIP). The plans must include all necessary construction details, the proposed drainage plan for the developed property, and the proposed landscape plan for the developed property. The OWTS Plot Plan shall show essential features of the OWTS, existing improvements, and proposed/new improvements. The plot plan must fit on an 11” x 17” sheet leaving a 5” left margin clear to provide space for a City-applied legend. If the plan scale is such that more space is needed to clearly show construction details and/or all necessary setbacks, larger sheets may also be provided (up to a maximum size of 18” x 22” for review by Environmental Health).

3) **Final OWTS Design Report, Plans, and System Specifications:** If the OWTS design is modified in any way subsequent to the Planning-stage review, then a final OWTS design report and large set of construction drawings with system specifications (four sets) shall be submitted to describe the OWTS design basis and all components proposed for use in the construction of the OWTS. All plans and reports must be signed by a City Registered OWTS Designer and the plans stamped by the project Geologist, Coastal Engineer, and Structural Engineer as applicable. The final OWTS design report and construction drawings shall be submitted with the designer’s signature, professional registration number, and stamp (if applicable).

The final OWTS design submittal shall contain the following information (in addition to the items listed above).

- a. Required treatment capacity for wastewater treatment and disinfection systems. The treatment capacity shall be specified in terms of flow rate, gallons per day (gpd), and shall be supported by calculations relating the treatment capacity to the number of bedroom equivalents, plumbing drainage fixture units, and the subsurface effluent dispersal system acceptance rate. The drainage fixture unit count must be clearly identified in association with the design treatment capacity, even if the design is based on the number of bedrooms. Average and peak rates of hydraulic loading to the treatment system shall be specified in the final design.

- b. Sewage and effluent pump design calculations (as applicable).

- c. Description of proposed wastewater treatment and/or disinfection system equipment. State the proposed type of treatment system(s) (e.g., aerobic treatment, textile filter, ultraviolet disinfection, etc.); major components, manufacturers, and model numbers for “package” systems; and the design basis for engineered systems.
d. Specifications, supporting geology information, and percolation test results for the subsurface effluent dispersal portion of the onsite wastewater disposal system. This must include the proposed type of effluent dispersal system (drainfield, trench, seepage pit, subsurface drip, etc.) as well as the system's geometric dimensions and basic construction features. Supporting calculations shall be presented that relate the results of soils analysis or percolation/infiltration tests to the projected subsurface effluent acceptance rate, including any unit conversions or safety factors. Average and peak rates of hydraulic loading to the effluent dispersal system shall be specified in the final design. The projected subsurface effluent acceptance rate shall be reported in units of total gallons per day (gpd) and gallons per square foot per day (gpsf). Specifications for the subsurface effluent dispersal system shall be shown to accommodate the design hydraulic loading rate (i.e., average and peak OWTS effluent flow, reported in units of gpd). The subsurface effluent dispersal system design must take into account the number of bedrooms, fixture units, and building occupancy characteristics.

e. All OWTS design drawings shall be submitted with the wet signature and typed name of the OWTS designer. If the plan scale is such that more space than is available on the 11" x 17" plot plan is needed to clearly show construction details, larger sheets may also be provided (up to a maximum size of 18" x 22" for review by Environmental Health). [Note: For OWTS final designs, full-size plans for are also required for review by Building & Safety and Planning.]

4) Existing OWTS to be Abandoned: Final plans shall clearly show the locations of all existing OWTS components (serving pre-existing development) to be abandoned and provide procedures for the OWTS' proper abandonment in conformance with the Malibu Municipal Code.

5) Worker Safety Note and Abandonment of Existing OWTS: The following note shall be added to the plan drawings included with the OWTS final design: "Prior to commencing work to abandon, remove, or replace existing Onsite Wastewater Treatment System (OWTS) components an "OWTS Abandonment Permit" shall be obtained from the City of Malibu. All work performed in the OWTS abandonment, removal, or replacement area shall be performed in strict accordance with all applicable federal, state, and local environmental and occupational safety and health regulatory requirements. The obtainment of any such required permits or approvals for this scope of work shall be the responsibility of the applicant and their agents."

6) Compliance Agreement for Onsite Wastewater Treatment System Repair, Modification, Upgrade or Replacement: A compliance agreement running with the land shall be executed between the City of Malibu and the holder of the fee simple absolute as to subject real property and recorded with the City of Malibu Recorder's Office. Said compliance agreement shall serve as constructive notice to any future purchaser for value that the onsite wastewater treatment system serving subject property is not functioning properly and is in need of repair or replacement in order to bring it into compliance with all applicable laws and regulations. The covenant has been submitted to the City Recorder; it is the applicant's responsibility to ensure covenant recordation.

7) Building Plans: All project architectural plans and grading/drainage plans shall be submitted for Environmental Health review and approval. These plans must be approved by the Building Safety Division prior to receiving Environmental Health final approval.

8) Proof of Ownership: Proof of ownership of subject property shall be submitted.
9) **Operations & Maintenance Manual:** An operations and maintenance manual specified by the OWTS designer shall be submitted to the property owner and maintenance provider of the proposed advanced OWTS.

10) **Maintenance Contract:** A maintenance contract executed between the owner of subject property and an entity qualified in the opinion of the City of Malibu to maintain the proposed advanced onsite wastewater treatment system shall be submitted prior to Environmental Health approval. **Please note only original “wet signature” documents are acceptable.**

11) **Advanced Onsite Wastewater Treatment System (OWTS) Covenant:** A covenant running with the land shall be executed between the City of Malibu and the holder of the fee simple absolute as to subject real property and recorded with the City of Malibu Recorder’s Office. Said covenant shall serve as constructive notice to any future purchaser for value that the OWTS serving subject property is an advanced method of sewage disposal pursuant to the City of Malibu Municipal Code. Said covenant shall be provided by the City of Malibu Environmental Health Administrator. **Please submit a certified copy issued by the City of Malibu Recorder.**

12) **Project Geologist/Geotechnical Consultant Approval:** Project Geologist/Geotechnical Consultant final approval of the OWTS plan shall be submitted to the Environmental Health Administrator.

13) **City of Malibu Geologist/Geotechnical Approval:** City of Malibu geotechnical staff final approval of the OWTS plan shall be submitted to the Environmental Health Administrator.

14) **City of Malibu Public Works Approval:** City of Malibu Public Works final approval of the OWTS plan shall be submitted to the Environmental Health Administrator.

15) **City of Malibu Planning Approval:** City of Malibu Planning Department final approval of the OWTS plan shall be obtained.

16) **Environmental Health Final Review Fee:** A final fee in accordance with the adopted fee schedule at the time of final approval shall be paid to the City of Malibu for Environmental Health review of the OWTS design and system specifications.

17) **Operating Permit Application and Fee:** In accordance with Malibu Municipal Code, an application shall be made to the Environmental Health office for an Onsite Wastewater Treatment System operating permit. An operating permit fee in accordance with the adopted fee schedule at the time of final approval shall be submitted with the application.

---

If you have any questions regarding the above requirements, please contact the Environmental Health office at your earliest convenience.

**cc:** Environmental Health file  
Planning Department
1. This conformance review is for a fire rebuild of a 5 bedroom (67 fixture units) single family dwelling. The new advanced onsite wastewater treatment system conforms to the requirements of the Malibu Municipal Code (MCC) and the Local Coastal Program (LCP).

2. This review relates only to the minimum requirements of the MCC, and the LCP, and does not include an evaluation of any geological or other potential problems, which may require an alternative method of review treatment.

3. This review is valid for one year, or until MCC, and/or LCP, and/or Administrative Policy changes render it noncomplying.

NOTES:

1. This conformance review is for a fire rebuild of a 5 bedroom (67 fixture units) single family dwelling. The new advanced onsite wastewater treatment system conforms to the requirements of the Malibu Municipal Code (MCC) and the Local Coastal Program (LCP).

2. This review relates only to the minimum requirements of the MCC, and the LCP, and does not include an evaluation of any geological or other potential problems, which may require an alternative method of review treatment.

3. This review is valid for one year, or until MCC, and/or LCP, and/or Administrative Policy changes render it noncomplying.
GEOTECHNICAL REVIEW SHEET

Project Information

Date: February 14, 2020. Review Log #: 205, 239
Site Address: 5878 Deerhead Road
Lot/Tract/PM #: Planning #: APRWF 20-001, PVWF 19-070
Applicant/Contact: Tim Ball, timbarchitect@gmail.com
Contact Phone #: (310) 600-9436 Fax #: Planner: Shaveta Sharma
Project Type: In kind rebuild of a single-family residence +10%, (PVWF, log 205) and new AOWTS (APRWF, log 239).

Submittal Information

Consultant(s) / Report Date(s): Gold Coast Geoservices, Inc. (Scott Hogrefe, CEG 1516; Edmond Vardeh RCE 56992): 11-15-2019 (Geotechnical Investigation Report and OWTS Supporting Geology Report)
Architectural Plans by Tim Ball Architect undated.
Previous Reviews: None.

Review Findings

Planning Review of APRWF for new OWTS

☑️ The OWTS is APPROVED from a geotechnical perspective.
☐ The OWTS is NOT APPROVED from a geotechnical perspective. The listed ‘Review Comments’ shall be addressed prior to approval.

Building Plan-Check Stage Review of APRWF (OWTS) and PVWF (house)

☑️ Awaiting Building plan check submittal for the AOWTS (APRWF). Please respond to the listed ‘Building Plan-Check Stage Review Comments’ AND review and incorporate the attached ‘Geotechnical Notes for Building Plan Check’ into the plans.
☐ **APPROVED** from a geotechnical perspective. Please review the attached ‘Geotechnical Notes for Building Plan Check’ and incorporate into Building Plan-Check submittals.
☐ Fire Rebuild project for the house (PVWF) NOT APPROVED from a geotechnical perspective. The listed ‘Building Plan-Check Stage Review Comments’ shall be addressed prior to Building Plan-Check Stage approval.

Remarks

The referenced geotechnical report and plans were reviewed by the City from a geotechnical perspective. Based on the submitted information, the project includes reconstructing a single-family residence. The rebuilt structure will include a basement involving retaining wall up to about ten feet high. The proposed residence will utilize new foundations and a new OWTS. Site preparation includes overexcavation of the building pad.
area. Retaining walls up to about 10 feet high are proposed as part of the new construction due to a walkout basement structure on the lower level of a two story house. Based on planning description, it appears the basement was part of the pre-fire structure. Based on review of aerial photos, it appears that all debris and foundation remnants were completely removed.

This project was reviewed under the City of Malibu Environmental Sustainability Department’s Woolsey Fire Rebuild policies, guidelines and geotechnical report considerations. These guidelines grant immediate approval of site feasibility from a geotechnical perspective for rebuilds with like-for-like construction and ten percent or less expansion. Geotechnical consultants prepare reports submitted under these guidelines evaluating and providing recommendations for foundation type and design parameters, retaining wall design parameters (as appropriate), site grading, site drainage, current CBC seismic design parameters, and geo-hazard disclosure. Quantitative evaluation and mitigation of slope stability, mud flow hazards, fault rupture hazard, and liquefaction potential and related hazards are considered outside the scope of the geotechnical consultant’s reports under these guidelines.

Building Plan-Check Stage Review to be addressed by the Project Geotechnical Consultant:

1. Clearly depict the outline of the proposed fire rebuild and the pre-fire structure on the geotechnical map. Based on aerial photos it appears the structure will be built in the same location.

2. Please provide additional detail regarding basement configuration and construction. It appears a freestanding wall will be constructed with crawl space underneath southeastern portion of the house (upper level). However recommendations provided in the geotechnical report are for a restrained wall with backfill. A more detailed section should be provided that depicts the foundation configuration between the one-story portion of the house and the two story portion with walkout basement. Provide additional recommendations that address this condition as needed.

3. The consultant should discuss the need for filter fabric between any gravel blanket recommended behind the retaining wall and the adjacent soil backfill.

4. The property appears to be mis-located on the Location Map, Geologic Maps, and the Seismic Hazard map. The consultant should review the site location and revise the indicated maps as necessary.

5. The consultant should discuss the basis for the bedding inclination depicted on the geologic cross section.

6. The consultant should discuss the 30-foot thick section of Conejo Volcanics encountered in B-1 relative to the splay of the Malibu Coast fault mapped in the area.

7. The consultant should discuss the location of the Escondido fault as mapped by Campbell et. al. (1970) and Campbell et. al. (1996), and nearby related traces of the Malibu Coast fault as mapped by Dibblee (1993).

8. Considering the expansion potential of onsite materials (EI=74), the consultant should discuss and substantiate the adequacy of the recommended depth of embedment of 18 inches below lowest adjacent grade.

9. The Project Geotechnical Consultant recommends new foundations bearing in compacted fill, and provides foundations design parameters for this condition. However, no shear strength testing of remolded onsite material was presented in the report, nor were SPT or equivalent blow counts presented on the boring logs. Provide data and bearing capacity calculations to substantiate the recommended foundation design parameters.

Building Plan-Check Stage Review Comments:

1. The geotechnical consultant should review grading and drainage plans and provide additional recommendations as appropriate to be include on the plans.
2. The consultant recommends ground improvement to a depth of 24 inches below anticipated footing depths. Foundations elements for retaining walls to heights of about ten feet may extend to depths greater than the minimum 18 inch footings recommended by the consultant. Prior to approval of the building plan, the consultant should verify that removals were sufficiently deep to provide the recommended thickness of fill below all proposed foundation elements, or alternative foundation recommendations should be provided.

3. The following notes must be added to the grading plan:
   a. The geotechnical consultant should determine the expansion potential of the finish grade materials at the completion of grading. Foundation design recommendations should be revised if the expansion potential of finish grade materials substantially differs from the assumed expansion range.
   b. At the completion of grading, samples of the onsite soils should be collected and tested for corrosion potential. Final recommendations for mitigation measures including cement type should be based on the corrosion potential of the finish grade materials.
   c. The geotechnical consultant should determine at the completion of grading the R-value of the finish grade materials within parking and access road areas. Final pavement design should be based on the actual R-value of the finish grade materials.

4. Include a note on the OWTS plans stating, for any new seepage pits, “The Project Engineering Geologist shall observe and approve the installation of the seepage pits and provide the City inspector with a field memorandum(s) documenting and verifying that the seepage pits were installed per the approved OWTS plans.”

5. Prior to final approval of the project, an as-built compaction report prepared by the Project Geotechnical Consultant must be submitted to the City for review for any grading activities performed at the site. The report must include the results of all density tests as well as a map depicting the limits of fill, locations of all density tests, locations and elevations of all removal bottoms. Geologic conditions exposed during grading must be depicted on an as-built geologic map. This comment must be included as a note on the grading plans.

6. Two sets of final grading, architectural and structural plans (APPROVED BY BUILDING AND SAFETY) incorporating the Project Geotechnical Consultant’s recommendations and items in this review sheet must be reviewed and wet stamped and manually signed by the Project Engineering Geologist and Project Geotechnical Engineer. City geotechnical staff will review the plans for conformance with the Project Geotechnical Consultants’ recommendations and items in this review sheet over the counter at City Hall. Appointments for final review and approval of the plans may be made by calling or emailing City Geotechnical staff.

7. Two sets of final OWTS plans incorporating the Project Geotechnical and Environmental Health Specialists’ recommendations and items in this review sheet must be reviewed and wet stamped and manually signed by the Project Engineering Geologist. City geotechnical staff will review the plans for conformance with the Project Geotechnical Consultants’ recommendations and items in this review sheet over the counter at City Hall. Appointments for final review and approval of the plans may be made by calling or emailing City Geotechnical staff.
Please direct questions regarding this review sheet to City Geotechnical staff listed below.

Geotechnical Engineering Review by: _______________________________  2/14/2020
Christopher J. Sexton, C.E.G. #1441, Exp. 11-30-20  Date
Engineering Geology Reviewer (805-496-1222)
Email: chris@geodynamics-inc.com

Geotechnical Engineering Review by: _______________________________  2/14/2020
Ali Abdel-Haq, G.E. #2308, Exp. 12-31-21  Date
Geotechnical Engineering Reviewer (805-496-1222)
Email: ali@geodynamics-inc.com

This review sheet was prepared by representatives of Cotton, Shires and Associates, Inc. and GeoDynamics, Inc., contracted through Cotton, Shires and Associates, Inc., as an agent of the City of Malibu.
NOTES FOR BUILDING PLAN-CHECK

The following standard items should be incorporated into Building Plan-Check submittals, as appropriate:

1. One set of grading, ADU/garage, pool cabana, swimming pool/spa, and remodel and addition plans, incorporating the Project Geotechnical Consultant’s recommendations and items in this review sheet, must be submitted to City geotechnical staff for review. Additional review comments may be raised at that time that may require a response.

2. Show the name, address, and phone number of the Project Geotechnical Consultant(s) on the cover sheet of the Swimming pool Plans.

3. Include the following note on Grading and Foundation Plans: “Subgrade soils shall be tested for Expansion Index prior to pouring footings or slabs; Foundation Plans shall be reviewed and revised by the Project Geotechnical Consultant, as appropriate.”

4. Include the following note on the Foundation Plans: “All foundation excavations must be observed and approved by the Project Geotechnical Consultant prior to placement of reinforcing steel.”

5. The Foundation Plans for the proposed project shall clearly depict the embedment material and minimum depth of embedment for the foundations in accordance with the Project Geotechnical Consultant’s recommendations.

6. Show the onsite wastewater treatment system on the Site Plan.

7. Please contact the Building and Safety Department regarding the submittal requirements for a grading and drainage plan review.

8. A comprehensive Site Drainage Plan, incorporating the Project Geotechnical Consultant’s recommendations, shall be included in the Plans. Show all area drains, outlets, and non-erosive drainage devices on the Plans. Water shall not be allowed to flow uncontrolled over descending slopes.

Grading Plans (as Applicable)

1. Prior to final approval of the project, an as-built compaction report prepared by the Project Geotechnical Consultant must be submitted to the City for review. The report must include the results of all density tests as well as a map depicting the limits of fill, locations of all density tests, locations and elevations of all removal bottoms, locations and elevations of all keyways and back drains, and locations and elevations of all retaining wall backdrains and outlets. Geologic conditions exposed during grading must be depicted on an as-built geologic map. This comment must be included as a note on the grading plans.

Retaining Walls (As Applicable)

1. Show retaining wall backdrain and backfill design, as recommended by the Geotechnical Consultant, on the Plans.

2. Retaining walls separate from a residence require separate permits. Contact the Building and Safety Department for permit information. One set of retaining wall plans shall be submitted to the City for review by City geotechnical staff. Additional concerns may be raised at that time which may require a response by the Project Geotechnical Consultant and applicant.
TO: Public Works Department  
FROM: City of Malibu Planning Department  
DATE: 1/2/2020

PROJECT NUMBER: APRWF 20-001  
JOB ADDRESS: 5878 DEERHEAD RD  
APPLICANT / CONTACT: Tim Ball  
APPLICANT ADDRESS: 5878 Deerhead Rd  
Malibu, CA 90265  
APPLICANT PHONE #: (310) 600-9436  
APPLICANT FAX #:  
APPLICANT EMAIL: timbarchitect@gmail.com  
PROJECT DESCRIPTION: New 1500 gallon OWTS, abandonment of existing

TO: Malibu Planning Department and/or Applicant  
FROM: Public Works Department  

The following items described on the attached memorandum shall be addressed and resubmitted.

The project was reviewed and found to be in conformance with the City’s Public Works and LCP policies and can proceed through the Planning process.

Signature:  
Date: 01/21/2020
The Public Works Department has reviewed the plans submitted for the above referenced project. Based on this review sufficient information has been submitted to confirm that conformance with the Malibu Local Coastal Plan (LCP) and the Malibu Municipal Code (MMC) can be attained. Prior to the issuance of building and grading permits, the applicant shall comply with the following conditions.

**STORMWATER**

1. A Local Storm Water Pollution Prevention Plan shall be provided prior to the issuance of the Grading/Building permits for the project. This plan shall include an Erosion and Sediment Control Plan (ESCP) that includes, but not limited to:

<table>
<thead>
<tr>
<th>Erosion Controls</th>
<th>Scheduling</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Preservation of Existing Vegetation</td>
</tr>
<tr>
<td>Sediment Controls</td>
<td>Silt Fence</td>
</tr>
<tr>
<td></td>
<td>Sand Bag Barrier</td>
</tr>
<tr>
<td></td>
<td>Stabilized Construction Entrance</td>
</tr>
<tr>
<td>Non-Storm Water Management</td>
<td>Water Conservation Practices</td>
</tr>
<tr>
<td>Waste Management</td>
<td>Material Delivery and Storage</td>
</tr>
<tr>
<td></td>
<td>Stockpile Management</td>
</tr>
<tr>
<td></td>
<td>Spill Prevention and Control</td>
</tr>
<tr>
<td></td>
<td>Solid Waste Management</td>
</tr>
<tr>
<td></td>
<td>Concrete Waste Management</td>
</tr>
<tr>
<td></td>
<td>Sanitary/Septic Waste Management</td>
</tr>
</tbody>
</table>
All Best Management Practices (BMP) shall be in accordance to the latest version of the California Stormwater Quality Association (CASQA) BMP Handbook. Designated areas for the storage of construction materials, solid waste management, and portable toilets must not disrupt drainage patterns or subject the material to erosion by site runoff.

MISCELLANEOUS

2. The developer's consulting engineer shall sign the final plans prior to the issuance of permits.