

	Amendment Description	Reason	No Substantive Change or Clarifies Existing Requirements	Industry/OWTS Policy/Ordinance Standard Requirements	Reduced or More Flexible Requirements	Decreased Staff Timed	Decreased Cost for Property Owners	Increased Requirements	Increased Staff Time	Increased Costs for Property Owners
ALL SECTIONS										
1	Reorganized content for better flow of information, easier to follow, consolidating of similar standards to in one place. Added chapter numbers to Introduction and Definitions sections. Added and section numbers to chapters.	-Better flow of information, easier to follow, consolidated information. -To identify and cite individual standards using a section number. Citing sections will aid in providing clear responses to clients and in citing specific variances/violations.	X							
2	Incorporated applicable design standards information from the <i>Supplemental Design Manual for OWTS February 5, 2015 Edition</i> .	-To provide all required standards in one place and to ensure all standards implemented as part of the local permitting program have gone through the correct process for the promulgation of regulatory standards.	X							
TABLE OF CONTENTS SECTION										
3	Added LAMP Revision History Table.	-To track LAMP revisions and approvals over time within the document.	X							
4	Added Tables and Figures Table.	-Ease of use to find tables and figures.	X							

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5	Added List of Acronyms.	-Ease of use to reference acronyms.	X							
CHAPTER 1.0 INTRODUCTION										
	Amendment Description	Reason								
6	Added clarifying language on authority, purpose of LAMP, and background of COSD LAMP.	-To better clarify the authority for and the purpose of LAMP-Tier 2 alternative siting and design program.	X							
7	Added the following to definitions section: “Advanced Protection Management Program”, “Alternative toilet”, “Annual Operating Permit”, “Defective system”, “Ephemeral stream or drainage course”, “Installation Permit”, “Licensed installer”, “Owner-Builder”, “Potable water”, “Sanitation facilities”, “Standard OWTS”, “State Water Board”, “Stormwater feature”, “Surface runoff channel or swale”, “Unstable land mass”, “Vaulted Privy”.	-To provide clarity of meaning for these references consistent with OWTS Policy.	X	X						
8	Added reference of “formerly horizontal seepage pit” to deep bed dispersal definition.	-For clarity based on Stakeholder comment.	X							

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9	Added language to definition of “Defective system” to include unsafe conditions and to clarify suspected surfacing wastewater from inundation of storm water must be confirmed by testing of the suspected OWTS to be considered defective.	-To clarify only those OWTS confirmed to be defective are subject to corrective action requirements.	X							
10	Added language to the definition of “Domestic wastewater” to include approved discharges of RV holding tank wastewater that do not contain any of the chemicals prohibited by law.	-To allow some discharges to OWTS from RVs in accordance with CA Health and Safety Code prohibited discharges for those RVs approved for occupancy in accordance with the Zoning Ordinance.	X	X	X					
11	Added or amended language in several definitions.	-To enhance clarity of definitions and make consistent with OWTS Policy and Ord., updated information on state agency names.	X	X						
CHAPTER 2.0 LAMP SCOPE OF COVERAGE										
	Amendment Description	Reason								
12	Added chapter for scope of coverage. Modified the LAMP scope of coverage to clarify the limits of the local permitting program (previously scope was reiterative	-To meet OWTS Policy 9.2 which provides for LAMP to define the scope of coverage. -To clarify scope of coverage of OWTS under LAMP as does not include all OWTS, including existing (other than those with		X						

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	of maximum scope allowed in OWTS Policy.	surfacing sewage/effluent or safety issues).								
13	Changed maximum daily flow regulated from 10,000 gallons per day (max allowed in OWTS Policy) to 3,500 maximum daily flow.	<ul style="list-style-type: none"> -Historic -1994 San Diego Basin Plan limit 1,200 gpd/over 1,200 gpd potential with no impacts to groundwater. -Most permits are for less than 3,500 gallons. (Only 5 installed since 2015-8 year period) -Tier 1 program limit is 3,500 gpd -considered low threat flow. -OWTS over 3,500 gpd-higher threat flow- need supplemental treatment and engineering review consistent with level of an engineer. -Submittals over 3,500 gpd would be for large commercial operations and are not common. -Costs under Regional Board small wastewater general order may be similar to local program except for ongoing monitoring and reporting. 	X							X
14	Clarified LAMP scope of coverage does not include existing OWTS where Regional Board has determined the discharge are impacting groundwater to extent	-Provided language to clarify extent of current program and local authority with respect to existing OWTS. OWTS Policy T2 programs cover new and	X	X						

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	requiring corrected actions (no surfacing sewage or safety issues which would trigger local corrective actions)	replacement only. Existing OWTS (near impaired water bodies) may be included in a LAMP to the extent allowed by local authority. Current local authority and permitting program do not address existing OWTS, except in cases of surfacing sewage or effluent or unsafe conditions.								
15	Added language to clarify that local program and LAMP does not cover OWTS where the Regional Board is requiring supplemental treatment with effluent limitations and ongoing sampling and reporting, as in a waste discharge program.	-Clarifies current local program does not include an expansion for ongoing sampling, monitoring, and reporting requirements-would be a duplicate or similar program to the Regional Board's Waste Discharge Requirements program.	X	X						
16	Added language to clarify if no public sewer, then drainage system of building to be connected to approved and permitted OWTS.	-Added language consistent with LAMP and ordinance for improved clarity on exiting requirement and to minimize violations that may impair groundwater/surface water resources.	X	X						
17	Added language for clarity on prohibited discharges to OWTS.	-To clarify existing prohibitions to minimize violations that may impair groundwater resources.	X	X						
18	Added section on Basin Plan policies for OWTS that local	-Provides users and staff background and context to the	X	X						

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	program must be consistent with, including TMDL requirements.	state policies that impact or influence the local permitting program.								
19	Expanded on the LAMP Water Quality Assessment Program (WQAP) with information consistent with the information provided in the 5-Yr Evaluation Report and with the OWTS Policy.	-Provides users and staff background on the characteristics or conditions that must be considered as part of a Tier 2 local program and that is reported in the 5-Year Evaluation Report to the Regional Board. The standards in the LAMP provide protection or address these characteristics or conditions.	X	X						
20	Amended existing Annual Report language consistent with OWTS Policy requirements.	-Clarifies for users and staff the annual report requirements consistent with OWTS Policy.	X	X						
21	Amended existing 5-Year Evaluation Report language to be consistent with OWTS Policy. Removed the WQAP information as that is covered in separate section in sufficient detail.	-Clarifies for users and staff the requirements consistent with OWTS Policy.	X	X						
22	Clarified existing notification language to be consistent with OWTS Policy.	-Clarifies for users and staff the notification requirements.	X	X						
CHAPTER 3.0 GENERAL REQUIREMENTS										
	Amendment Description	Reason								

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23	Expanded existing registration requirements to require demonstration of knowledge from all professionals and for an annual renewal process. Added language on qualified professionals to clarify existing definition, scope of service, standards of practice.	-Provides minimum level of licensure and competency for qualified professionals consistent with B&PC requirements. -Will reduce need for staff to provide ongoing education during review process, reducing resubmittals, review times and costs. -increased cost to OWTS professionals.				X	X	X		
24	Added language to clarify licensed installer scope of service and standards of practice.	-Provides existing minimum level of licensure and competency for contractors consistent with LAMP and Business and Professions Code. -Will ensure OWTS installers are qualified and knowledgeable. -Will reduce need for resubmittals and reinspections, reducing staff review/inspection time, and reducing costs.	X	X		X	X			
25	Added language on qualified service providers to clarify existing definition, scope of service, standards of practice.	-Provides for a minimum level of competency for service providers and provides a scope of service responsibilities. -Will reduce or eliminate issues with QSPs and may reduce staff	X	X		X	X			

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		time and costs associated with addressing these issues.								
26	Added language to clarify existing requirements for mandatory connection to public sewer requirements.	-Added to be consistent with LAMP and ordinance language for clarity for users and staff. -Mandatory connection also addressed in Section 2.2.8 (use limitations).	X	X						
27	Added clarifying language to existing DEHQ and local land use agency coordination.	-Added language to clarify and make consistent with land development and construction related ordinance sections.	X	X						
28	Added new section for local agency requirements in the Regional Board’s Water Quality Control Plans (Basin Plans) for subdivisions of land and lot line adjustments and OWTS.	-Provides information on Regional Board Basin Plan requirements for OWTS and development projects that local programs must be consistent with. -Provides background knowledge on these State requirements for local agencies for reference by staff and consultants, especially when reviewing or updating the local program requirements.	X	X						
29	Added Table 3.7-2: <i>Average Allowable Densities for Lots Utilizing OWTS with Supplemental Treatment for Nitrogen Reduction</i> relating to	-This table allows for an alternative standard for reduced subdivision lot sizes, as compared to the existing density table (Table 3.7-1), for those parcels			X	X	X			

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	the minimum size of subdivisions of land with lots utilizing OWTS with supplemental treatment.	where OWTS with supplemental treatment is proposed. -Eliminates the need for a site-specific nitrate loading study, including staff review time and cost.								
30	Added section to allow local approval of OWTS serving Accessory Dwelling Units (ADUs) as accessory uses to a primary dwelling.	-To add provisions for ADUs into the LAMP consistent with SWRCB guidance to ensure continued local review. -To provide a streamlined review for ADU applications. -Provides an alternative to the density requirement for ADUs and primary dwellings: 1)where parcels generate a maximum of 900 gallons per day (6-bedroom equivalent) using a standard OWTS. 2)where parcels generate a maximum 1500 gallons (10-bedroom equivalent) using an OWTS with supplemental treatment. -Project must meet all other LAMP requirements.		X	X	X	X			
31	Added section for Temporary Occupancy.	-To address sanitation facilities for temporary occupancies authorized by the zoning	X	X						

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		ordinance by providing an alternative standard for the density requirement in these cases.								
32	Added section for Temporary OWTS and Alternative Toilets.	-To address requirements consistent with the provisions of the Zoning Ordinance and Regulatory Code (Title 6).	X	X						
33	Added clarifying language to existing review requirements for building permits and changes of occupancy consistent with ordinance.	-Provide clarity for users and staff consistent with Regulatory Code (Title 9) language.	X	X						
34	Added language to existing land use development review requirements consistent with ordinance.	-Provide clarity for users and staff the requirement for layout submittal and timing for approval consistent with Regulatory Code (Title 8) and Zoning Ordinance.	X	X						
35	Added language on existing review requirements for grading permits consistent with ordinance.	-Provide clarity for users and staff consistent with Regulatory Code (Title 8).	X	X						
36	Amended language on existing potable water supply requirements consistent with ordinance and also clarified definition of potable water, especially as relating to domestic wells.	-Provide clarity for users and staff relating to potability and adequate well water supply requirements in Regulatory Code (Title 6 and Title 8).	X	X						

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37	Amended language on existing general permitting process and consolidated information into one area.	-Provides for the complete process in one section of LAMP for ease of use and reference for users and staff.	X	X						
38	Added language clarifying existing specific requirements for groundwater monitoring, slope stability, and microbial travel time studies. Added provision for describing slopes using USDA slope classes.	-Clarify that these studies are required in certain conditions. -Removed requirement for nitrate loading study. Costs eliminated for nitrate loading study. -Groundwater monitoring requirements standardized consistent with current practice with costs to be recovered through consultation activity. Consistent tracking will aid in the development of a depth to groundwater map which may ultimately reduce costs. -Provides a standardized method for describing slopes.		X	X	X	X			
39	Added section addressing existing requirements for OWTS that are considered Federal Class V Injection Wells. (OWTS that serve 20 or more persons)	-Clarifies OWTS owners to comply with existing federal laws prior to the issuance of a local permit. -Cost of federal registration is outside local permitting program.	X	X						

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40	Changed expiration of an OWTS Layout Report from one year to two years.	-Expands OWTS Layout Report expiration to two years to better align with the timing of the building permit process. This will reduce the number of OWTS Layout Report extensions due to expiration, reducing staff time and applicant costs (\$753 current fee).		X	X	X	X			
41	Added section addressing minimum requirements for “as built” submittals.	-Standardizes the minimum elements of the “as built” drawing for consistency. -Reduces need for requests for additional information and resubmittals from applicants. -Reduces staff review time and associated costs.	X	X		X	X			
42	Clarified existing requirement in ordinance for a permit to abandon a septic tank or seepage pit.	-To clarify an existing ordinance requirement to obtain a permit to destroy an abandoned septic tank or seepage pit. Increase cost for destruction permit, to be reduced if destruction is part of the scope of work of another permit.	X	X	X					X

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43	Added minimum OWTS operation and maintenance requirements, including regular pumping and retention of pumping records for minimum of six years. Provides for a mandatory Operations and Maintenance Plan for OWTS with lift stations and supplemental treatment.	-To comply with OWTS Policy Section 9.2.5. -Makes compulsory minimum OWTS operations and maintenance standards consistent with outreach standards in OWTS Policy. -Promotes maintenance of OWTS to reduce failures and enhance wastewater treatment capabilities. -May result in increased costs if OWTS is not currently being pumped at minimum frequency needed for proper maintenance. -May result in long term cost savings by reducing the number of OWTS failures and need for repairs.		X			X	X		X
CHAPTER 4.0 SITE EVALUATION REQUIREMENTS										
	Amendment Description	Reason								
44	Consolidated site evaluation requirements under one chapter. Clarified scanned copies of original Qualified Professional signature/stamp acceptable for electronic submittals.	-Complete requirements in one area of LAMP provides ease of use for users and staff.	X							
45	Added language to use USDA soils classes to describe soil for	-To be consistent with OWTS Policy and standard practices for		X						

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	soil profiles. Added figure of USDA Soil Textural Triangle.	soil description methodology (EPA Design Manual).								
46	Consolidated all soil testing requirements to one area in LAMP.	-Ease of use and reference.	X							
47	Added provision for max cobbles and rock fragments as per Evaluation Report.	-Consistent with OWTS Policy and current practice. -No impact expected.	X	X						
48	Added soil profile requirement for drip dispersal.	-Consistent with soil evaluation requirements of OWTS Policy and current practice. -Provides clarity for users and staff.	X	X						
49	Changed minimum number of percolation test holes from four to six for percolation rates less than 60 minutes per inch (MPI). Removed section requiring percolation rates of 60 MPI or higher to have two additional percolation test holes. Added clarifying language that percolation test holes to be within the dispersal areas.	-Because the percolation rates and soil profile data are the sole determinant to appropriately size and design the dispersal field, a sufficient number of data points are vital to provide accurate test results that cover the full areal extent of each dispersal area and to ensure uniformity of soils are present. -Appropriately sited, sized, and designed dispersal systems promote OWTS longevity, reducing or postponing the need for future repairs or replacement of the dispersal field, which		X			X	X		X

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		<p>would provide savings in the long term. This would also reduce the incidence of surfacing sewage associated with failing dispersal fields, reducing impacts to stormwater/surface water quality and public health.</p> <ul style="list-style-type: none"> -Consolidates and standardizes percolation requirements for all dispersal system types. -Small increase in cost up front but may be offset by reduced long term costs, as noted above. 								
50	Added requirement for a percolation test/ soil profile boring permit.	<ul style="list-style-type: none"> -Provides for standardization and verification of percolation test/soil profile methodologies and results, as representative percolation test results are vital to proper siting, sizing, and design of dispersal system. -Provides opportunity for review of site conditions, proposed dispersal field areas, etc., to identify and address potential issues early on in the process. -Provides mechanism for percolation tests/soil profile results to be approved without having to submit an OWTS Layout 				X	X	X	X	X

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		Report. May benefit some owners. -Reduced staff time and costs expected later in the process. -Additional cost for permit but costs mostly offset by reduction in cost for the OWTS Layout Report review as one site visit is eliminated from this workflow.								
51	Added provision for determining the design percolation rate from the percolation test results based on location of dispersal areas and uniformity of soils.	-Provides a consistent method to determine the design rate.	X	X						
52	Provided alternative to a slope stability study for all slopes over 30% by including an initial screening as part of the existing site evaluation process. Only slopes with evidence of instability found during the initial screening are subject to the study requirements. Provided minimum requirements to ensure consistency of reporting and evaluation.	-Incorporating initial screening as part of site evaluation will eliminate need for slope stability study for most sites with slopes over 30%. -Reduce costs for most projects on steep slopes.			X	X	X			
CHAPTER 5.0 SITE EVALUATION AND OWTS LAYOUT REPORT REQUIREMENTS										
	Amendment Description	Reason								

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53	Consolidated reporting requirements in one place.	-Ease to reference.	X							
54	Updated OWTS Layout Report requirements to meet current practice and minimum information required per LAMP. Added table of minimum information requirements for OWTS with supplemental treatment.	-Provides complete listing of required OWTS Layout report information in reformatted tables for clarity and ease of use.	X							
CHAPTER 6.0 SITING AND DESIGN										
	Amendment Description	Reason								
55	Added language from Regulatory Code prohibiting the connection to an OWTS without an approval from DEHQ.	-For consistency with ordinance.	X	X						
56	Updated language for primary and designated reserve dispersal area requirements consistent with Regulatory Code.	-For consistency with ordinance.	X	X						
57	Added table 6.3 Minimum Depths to Groundwater and Minimum Soil Depths from the Bottom of the Dispersal System as per Evaluation Report recommendation.	- Provides for greater soil separation for OWTS in areas of faster percolation rates (<5 MPI) consistent with OWTS Policy to protect groundwater. -To provide flexibility, added an alternative to this standard when OWTS does not overlie		X	X			X		

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		groundwater protected for drinking water supplies and is located more than 2,500 feet from an impaired water body or drinking water reservoir or tributary. -Minimal number of parcels will to be affected. -Increased cost if OWTS with supplemental treatment or other alternative system is required for parcels that cannot meet depth to groundwater requirements.								
58	Added section to address characterization of wastewater volume and strength.	-Needed to determine if OWTS is within LAMP scope of coverage (uniformity of implementation). -No direct increase in cost as information is standard for typical installations.		X				X		
59	Added section to determine wastewater flows. Confirmed 150 gpd per bedroom as method to determine flow for residential. Added information relating to the flows for commercial establishments.	-Needed to determine if OWTS is within LAMP scope of coverage. -Provides a consistent method to determine flows for OWTS sizing purposes. -No direct increase in cost as information is standard for typical installations.	X	X						
60	Updated Minimum Setbacks Table format. (See Setback	-Format changes for ease of use.	X							

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	Update Chart at end of this table.)									
61	Added setback distance for septic tanks.	-Clarifies location requirements for septic tanks consistent with OWTS Policy language. Based on Regional Board comment.		X						
62	Added footnote to setback table allowing for the installation of deep dispersal systems under a driveway, if needed.	-Proves an alternative to siting for deep dispersal systems, when appropriate, for added flexibility. -May reduce costs of installation in some cases. Based on stakeholder comment.			X		X			
63	Added category with minimum setback distances for drip lines.	-Incorporating all setback information into table for ease of use and consistent application of standards.	X	X						
64	Added new setback for unstable land mass as per evaluation Report recommendation.	-To provide setback to an unstable land mass consistent with OWTS Policy. -Not expected to increase requirements as consistent with existing requirements for identifying issues on steep slopes.	X	X						
65	Added ephemeral stream to the existing Flowing Surface Water Bodies setback category (setback set at 100'). Removed the Drainage Course setback category.	-Provides surface water protection (including via stormwater drainage conveyances) consistent with OWTS Policy and Regional Board comments.		X	X			X		X

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	Added alternative for a reduction to 50' where an OWTS with supplemental treatment is utilized.	-May result in increased cost for new OWTS if supplemental treatment is needed to meet setback.								
66	Increased setback from OWTS to ponds or lakes from 100' to 200' as per Evaluation Report.	-For consistency with minimum setback requirements in OWTS Policy to protect surface waters. -Increased setback provides minimum level of protection from effluent in stormwater runoff and areas near drinking water reservoirs. -Existing OWTS needing corrective action may require a variance or use OWTS with supplemental treatment if unable to meet this standard. -May result in increased costs if required to use OWTS with supplemental treatment.		X				X		X
67	Added an alternative for a reduced setback for the distance between leach line trenches for sites with 10% or less slope, an equal distribution system, and a percolation rate of 30 MPI or faster. Reduced setback from	-Reduced space between trenches allows for greater design flexibility where site conditions permit without potential for saturation and loss of soil reaeration. -No change in costs expected.			X		X			

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	leach line to seepage pit from 15' to 10'.	-May reduce costs if avoids need for OWTS with supplemental treatment to meet setbacks. Based on Stakeholder comment.								
68	Reduced the setback to deep bed to 10' (from 15' and 20' for leach lines/deep beds less than 10 feet in depth and more than 10' in depth, respectively)	-Reduced setback sufficient for integrity of deep bed and soil treatment. -Based on Stakeholder Comment.			X					
69	Provided alternative to cut slope setback for drip dispersal or where site evaluation demonstrates a reduction will not result in effluent surfacing.	-Provides greater design flexibility and siting options. -No change in costs expected. -May allow more properties to be developed.			X					
70	Added setback to stormwater features, surface runoff channels, swales, man-made ponds, and ditches 5' in depth or less with a setback distance of 25'. Added a setback to these same features but with a depth requirement of greater than 5' with a setback distance of 50'.	-Setback added to protect surface waters consistent with current practice and to differentiate from a flowing water body or drainage course. -Added footnote to allow for a reduction in distance in specific conditions.	X	X						
71	Added section to provide minimum standards for repairs (to allow existing dispersal system to rest/ recover) in certain conditions.	-Provides consistent, uniform guidance on minimum repairs, when appropriate, consistent with past practice. -Costs should be consistent with current practice.	X	X						

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	(Residential- minimum one-bedroom equivalent leach line addition to dispersal. Commercial OWTS-minimum repair is 50% of full capacity.)	-May reduce staff review time.								
72	Added requirement for a full replacement and site evaluation for OWTS with more than one repair due to dispersal failure in the previous ten years.	-To address when a full replacement is required (as compared to a minimum repair) and to identify and address site conditions causing multiple failures. -Costs should be consistent with current practice.	X	X						
73	Added requirement to properly destroy unsafe open pits or to fill with rock if to be kept in use.	-To bring existing non-conforming OWTS up to standards to protect public health and safety. -Increase in cost for rock.		X				X		X
74	Added requirement to replace any septic tank showing signs of deterioration, no longer watertight, and for replacement of all wooden tanks at time of repair.	-To bring existing non-conforming OWTS up to standards to protect public health and safety and water quality. -Reduces potential for discharges from tank to ground and surface (stormwater) waters. -May increase cost for septic tank replacement for some tanks.		X				X		X
75	Added language to allow the reuse of areas formerly used as a dispersal area when needed.	-Allows for greater design flexibility where site conditions permit.			X		X			

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		-May reduce costs of installation. -Based on Stakeholder comment.								
76	Added section to incorporate requirements from the Design Manual for effluent piping crossing through roadways, easements, drainage or water bodies.	-Incorporates existing provisions into LAMP for ease of use and consistent application.	X	X						
CHAPTER 7.0 SEPTIC TANK REQUIREMENTS										
	Amendment Description	Reason								
77	Added provisions for the construction and approval of concrete septic tanks.	-To ensure the integrity and construction of septic tanks meet minimum requirements in plumbing code and concrete association industry standards. -Concrete tank manufacturers will need to have a one-time approval for each tank type before use. -One-time cost (consultation plan check) for septic tank manufacturers.		X				X	X	
78	Added language to make septic tank standards consistent with OWTS Policy and Plumbing Code piping and Appendix H (formerly K) requirements.	-For consistency with OWTS Policy septic tank requirements. -Most requirements are existing and/or part of current practice.	X	X						
79	Added a requirement for all new OWTS to either: have effluent	-To address OWTS Policy requirement prohibiting small		X				X		

	Amendment Description	Reason	No Substantive Change or Clarifies Existing Requirements	Industry/OWTS Policy/Ordinance Standard Requirements	Reduced or More Flexible Requirements	Decreased Staff Timed	Decreased Cost for Property Owners	Increased Requirements	Increased Staff Time	Increased Costs for Property Owners
	filters installed, or conduct regular pumping, or have additional septic tank capacity.	particulates/solids in effluent from leaving septic tank. -No additional costs if OWTS is currently being pumped regularly (anticipated majority of OWTS to use this option). -Small upfront cost if adding effluent filter or additional tank capacity at time of installation. -Effluent filter will have potential ongoing maintenance costs.								
80	Added table as a reference for approved pipe material based on Plumbing Code requirements.	-Provides clarity on approved piping material.	X	X						
81	Changed requirement for inlet tee to be uncapped (was previously capped).	-Standard changed consistent with plumbing code requirements to provide free ventilation above the water surface from the disposal field through the septic tank, house sewer, and stack to the outer air. -No additional costs.		X						
82	Added language to clarify commercial septic tank sizing.	-For consistency and uniformity of implementation.	X	X		X	X			
83	Added Table 7.2-2 for septic tank sizes for more than one dwelling.	-Incorporated from Design Manual guidance document.	X							
84	Added requirements for oil/grease interceptor consistent with OWTS Policy	-To implement existing OWTS Policy Tier 2 requirements for oil/grease interceptor for OWTS	X	X				X		

	Amendment Description	Reason	No Substantive Change or Clarifies Existing Requirements	Industry/OWTS Policy/Ordinance Standard Requirements	Reduced or More Flexible Requirements	Decreased Staff Timed	Decreased Cost for Property Owners	Increased Requirements	Increased Staff Time	Increased Costs for Property Owners
		receiving high strength wastewater from a commercial food service building. -Additional cost for oil/grease interceptor, if not required to be installed to meet other code requirements.								
85	Added section to incorporate requirements for sewage effluent pump systems from Design Manual.	-Incorporates existing requirements into LAMP from Design Manual.	X	X						
CHAPTER 8.0 SUBSURFACE DISPERSAL FIELD REQUIREMENTS										
	Amendment Description	Reason								
86	Added clarifying language on dispersal fields general information.	-Clarify general dispersal field background information.	X							
87	Added provision for the optional installation of metal tape or other approved material within a dispersal field.	-To be able to locate dispersal field at a later date. Optional. -Recommended by stakeholders.	X							
88	Added section providing for the use of shallow bed dispersal systems in sandy areas with fast percolation rates, such as in the Borrego Springs area of concern for groundwater. Section includes general requirements, dimensions and specifications,	-To enhance treatment and evapotranspiration capabilities of dispersal fields for better <u>protection of groundwater resource in this area of concern.</u> -Requirements and costs for new or replacement OWTS expected to be less than or similar to the		X	X					

	Amendment Description	Reason	No Substantive Change or Clarifies Existing Requirements	Industry/OWTS Policy/Ordinance Standard Requirements	Reduced or More Flexible Requirements	Decreased Staff Timed	Decreased Cost for Property Owners	Increased Requirements	Increased Staff Time	Increased Costs for Property Owners
	sizing, and materials and constructions subsections.	deep bed dispersal type historically used in this area. -Provides flexibility in dispersal design.								
89	Incorporated information from the Design Manual relating to lowering the water table to meet separation requirements for OWTS installation and clarifying that this activity is not permitted.	-Provides clarification on the prohibition of lowering of groundwater table for OWTS installation to meet separation requirements.		X						
90	Amended leach Line length chart (Table 8.2-1 as recommended in Evaluation Report. Adjusted leach line lengths to align with infiltrative surface areas determined from <i>Table 3: Application Rates as Determined from Stabilized Percolation Rate</i> provided in the OWTS Policy.	-Provides alignment with OWTS Policy application rates and consistency of infiltrative surface areas for all dispersal types. -Reduces leach line length and infiltrative surface area requirements for most installations. -May result in notable decrease in costs. -Provides more flexible design options for lots with size restraints.		X	X		X			
91	Consolidated dimensions and materials and construction information for dispersal systems into a table format.	- For ease of use and reference.	X	X						
92	Added requirement for an observation port to be installed	-To be able to monitor and verify full length of leach line is						X		

	Amendment Description	Reason	No Substantive Change or Clarifies Existing Requirements	Industry/OWTS Policy/Ordinance Standard Requirements	Reduced or More Flexible Requirements	Decreased Staff Timed	Decreased Cost for Property Owners	Increased Requirements	Increased Staff Time	Increased Costs for Property Owners
	for every linear 100 feet of leach line trench.	receiving wastewater adequately. -Initial cost should be minimal. -May result in cost savings over time as issues with leach trenches can be identified before dispersal system failure.								
93	Added language in each appropriate dispersal section relating to equal distribution.	-To clarify use of equal distribution where appropriate consistent with existing ordinance provisions. -Serial distribution still allowed where appropriate.	X	X						
94	Changed requirements for steep slopes from 25% to 30% slope. Changed maximum slope for vertical seepage pits and drip dispersal from 40% to 30% without a slope stability study.	-To align with OWTS Policy Tier 2 slope requirements to be set at 30%. -Adjustment provides more flexibility for most sites with slopes. -Brings slope requirements for vertical seepage pits and drip dispersal systems in line with Policy slope stability requirements.		X	X		X			
95	Incorporated dispersal system information for second unit dwellings from the Design Manual.	-To consolidate requirements into LAMP -For consistency and uniformity of implementation.	X	X						

	Amendment Description	Reason	No Substantive Change or Clarifies Existing Requirements	Industry/OWTS Policy/Ordinance Standard Requirements	Reduced or More Flexible Requirements	Decreased Staff Timed	Decreased Cost for Property Owners	Increased Requirements	Increased Staff Time	Increased Costs for Property Owners
96	Added clarifying language as to the method of sizing of commercial dispersal systems.	-For consistency and uniformity of implementation.	X							
97	Added Table 8.5-2 providing minimum infiltrative surface areas equivalent to OWTS Policy application rates and amended LAMP leach line requirements. Added Table 8.5-3 providing dimension options for deep bed dispersal infiltrative areas.	-To provide minimum infiltrative surface areas and constructions dimensions for deep bed dispersal that are equivalent to the leach line and OWTS Policy infiltrative surface requirements. -Provides for ease of use and consistency and uniformity of implementation. -Costs should be reduced consistent with reduction in leach line requirements.		X	X		X			
98	Updated information relating to where vertical seepage pits are allowed to be installed: Regional Board Basin Plan excepted areas for municipal beneficial uses.	-To clarify areas suitable for vertical seepage pit usage is based on Regional Board Basin Plan criteria.	X	X						
99	Added table for vertical seepage pit minimum sizing requirements and example.	-For ease of use. -For consistency and uniformity of implementation.	X	X	X					
100	Modified existing Operations and Maintenance Plan requirements for supplemental treatment/ drip dispersal systems to clarify the QP responsible for the system design to compile.	-To clarify who is responsible for compiling the Operation and Maintenance Plan and to ensure all activities and associated frequencies are included.	X	X						

	Amendment Description	Reason	No Substantive Change or Clarifies Existing Requirements	Industry/OWTS Policy/Ordinance Standard Requirements	Reduced or More Flexible Requirements	Decreased Staff Timed	Decreased Cost for Property Owners	Increased Requirements	Increased Staff Time	Increased Costs for Property Owners
101	Eliminated the reduced setback of two feet to property line for drip dispersal. Minimum setback of five feet is applicable for all dispersal system types.	-To protect integrity of adjacent properties to same extent as other dispersal systems, as recommended in the Evaluation Report. -No increase in costs expected.		X				X		
102	Added section to provide for alternative dispersal systems when appropriate.	To allow for flexibility and for implementation of new technologies, where appropriate.			X					
CHAPTER 9.0 OWTS WITH SUPPLEMENTAL TREATMENT										
	Amendment Description	Reason								
103	Added provision for a signed owner's statement to be included in the OWTS Layout Report documenting the owner's understanding of the costs and ongoing operation and maintenance requirements associated with an OWTS with supplemental treatment.	-To reduce or eliminate circumstances where a property owner does not fully understand the costs and ongoing activities associated with this type of system. -No additional costs expected as statement template to be provided.						X		
104	Added a provision for a standard septic tank to be installed prior to the treatment system. Added language to clarify that approved third-party testing for supplemental treatment systems is allowed	-To provide sufficient pre-treatment consistent with current practice. -To clarify approved third-party testing is allowed.	X	X						
105	Added provision for minimum soil cover of 12 inches for	-To be consistent with minimum requirements of the OWTS Policy.		X				X		

	Amendment Description	Reason	No Substantive Change or Clarifies Existing Requirements	Industry/ OWTS Policy/ Ordinance Standard Requirements	Reduced or More Flexible Requirements	Decreased Staff Timed	Decreased Cost for Property Owners	Increased Requirements	Increased Staff Time	Increased Costs for Property Owners
	dispersal systems for OWTS with supplemental treatment for pathogen reduction.	-No added costs to an installation are expected with this provision.								
106	Clarified Operation and Maintenance Plan requirements to include all activities and associated frequencies needed to operate and maintain the system as designed. Changed notification time frame from 72-hours to 30 days.	-To provide clarity as to Operation and Maintenance Plan requirements. -To benefit current and future property owners and QSPs so that they have all information necessary to properly operate the system. -Notification provisions provide reasonable flexibility for reporting.	X	X	X					
107	Revised provisions to reflect owner is responsible for the annual operating permit, notifications, and operations and maintenance requirements.	-To provide clarity as to owner responsibility.	X	X						
108	Added clarifying language to existing expectation for design engineer to supervise and certify the system was installed as per design.	-To provide clarity on this provision. -Engineer will need to provide a certification statement. -Should not result in increase in cost.	X					X		
109	Added language providing the annual operating permit, the ongoing operations and maintenance requirements, and	-To provide clarity that these requirements are standard conditions of the installation permit.				X	X	X		X

	Amendment Description	Reason	No Substantive Change or Clarifies Existing Requirements	Industry/OWTS Policy/Ordinance Standard Requirements	Reduced or More Flexible Requirements	Decreased Staff Timed	Decreased Cost for Property Owners	Increased Requirements	Increased Staff Time	Increased Costs for Property Owners
	property owner responsibilities are standard conditions of the permit to install an OWTS with supplemental treatment. Added requirement for an agreement to these conditions of the permit be recorded with County Recorder’s Office by the property owner prior to issuance of the installation permit.	-Recordation of agreement to comply with permit conditions provides property owner a comprehensive understanding of ongoing requirements and provides notice of these requirements to successor property owners. -Will reduce or eliminate confusion on part of current and new property owners as to ongoing requirements and responsibilities. -Costs to owners are expected to be recording fees, as agreement template to be provided. Costs may be offset by reduced staff time following up of delinquent annual permits and servicing requirements and submittals with existing and new property owners.								
CHAPTER 10.0 OWTS REQUIRING CORRECTIVE ACTION										
	Amendment Description	Reason								
110	Added language to clarify the difference between a defective OWTS and an existing, non-conforming OWTS. Removed	-Use of terms “defective” and “exiting, non-conforming” consistent with ordinance references.	X	X						

	Amendment Description	Reason	No Substantive Change or Clarifies Existing Requirements	Industry/OWTS Policy/Ordinance Standard Requirements	Reduced or More Flexible Requirements	Decreased Staff Timed	Decreased Cost for Property Owners	Increased Requirements	Increased Staff Time	Increased Costs for Property Owners
	reference to “substandard” OWTS.	-Requires corrective actions for defective OWTS. -Prohibits the expansion of a non-conforming OWTS for development projects. -Costs consistent with current practice.								
111	Expanded information on correction action processes/ complaint investigations.	-Provides more information on complaint investigation process, including the tools staff can use to investigate a potential defective OWTS. -Costs consistent with current practices.	X	X						
112	Added language on OWTS Policy requirement that all OWTS must comply with local agency corrective action as condition of waiver of waste discharge requirements.	-To provide information on this requirement consistent with OWTS Policy.	X	X						
113	Added section on variances.	-To provide a consistent, uniform approach to considering and granting variances that is consistent with OWTS Policy and existing ordinance requirements.	X	X						
114	Added section on abatement and enforcement.	-To provide clarity on abatement and enforcement provisions consistent with Regulatory Code (Title 1) and for cost recovery.	X	X						

	Amendment Description	Reason	No Substantive Change or Clarifies Existing Requirements	Industry/OWTS Policy/Ordinance Standard Requirements	Reduced or More Flexible Requirements	Decreased Staff Timed	Decreased Cost for Property Owners	Increased Requirements	Increased Staff Time	Increased Costs for Property Owners
115	Added language to provide clarity on the conditions that may result in denial of coverage per OWTS Policy.	-To provide information consistent with OWTS Policy.	X	X						
116	Added information relating to appeals.	-To be consistent with ordinance requirements relating to appeals.	X	X						
CHAPTER 11.0 OWTS NEAR IMPAIRED WATER BODIES										
	Amendment Description	Reason								
117	Expanded language clarifying the current existing OWTS regulatory framework for OWTS in impaired water bodies based on OWTS Policy.	-Clarifies local program is for permitting of new and replacement (repairs) OWTS pursuant to the standards in the approved LAMP and within LAMP scope of coverage. All other OWTS regulated under Regional Board general order or individual waste discharge requirements.	X	X						
118	Added information on San Diego Regional Board adopted TMDLs and other TMDL projects or plans with references to OWTS discharges as sources or potential sources.	-To provide background for OWTS requirements in these areas, if any.	X	X						
119	Added language clarifying that LAMP does not contain any special provisions related to impaired water bodies.	-To provide clarification relating to the implementation of standards in impaired water body geographical areas. LAMP does not contain special provisions or standards.	X	X						

	Amendment Description	Reason	No Substantive Change or Clarifies Existing Requirements	Industry/OWTS Policy/Ordinance Standard Requirements	Reduced or More Flexible Requirements	Decreased Staff Timed	Decreased Cost for Property Owners	Increased Requirements	Increased Staff Time	Increased Costs for Property Owners
APPENDICES										
	Amendment Description	Reason								
120	Appendix I Percolation Test Procedures. Minor rewording/reformatting Incorporated changes made to Chapter 4.0.	-To incorporate changes in Chapter 4.0-Site Evaluation Requirements and to ensure sufficient soil data is obtained to properly site, size, and design a dispersal field. -To add clarity and provide a uniformly applied methodology consistent with standard practices.	X	X						
121	Appendix II Vertical Seepage Pit Dispersal Systems Capacity Test Procedures. Added clarifying language to existing procedures.	-To add clarity and provide a uniformly applied methodology consistent with standard practices.	X	X						
122	Appendix III OWTS Performance Evaluation Guidelines. Added new OWTS Performance Evaluation Guidelines that provide step-by-step guidance to evaluate the functioning of an existing OWTS.	-To provide a standardized method to investigate OWTS suspected of reduced functioning or failure. -Provides additional tool for staff/owners to use to evaluate the functioning status of an OWTS.	X	X						
123	Appendix IV Alternative Toilet Minimum Requirements. Added minimum standards for alternative toilets consistent with Regulatory Code (Title 6),	-To provide specifications and minimum standards for the construction, sizing, monitoring, and/or use of alternative toilets,	X	X						

	Amendment Description	Reason	No Substantive Change or Clarifies Existing Requirements	Industry/OWTS Policy/Ordinance Standard Requirements	Reduced or More Flexible Requirements	Decreased Staff Timed	Decreased Cost for Property Owners	Increased Requirements	Increased Staff Time	Increased Costs for Property Owners
	including temporary holding tanks, vaulted privy, and chemical toilets.	where authorized in existing ordinance.								
124	Appendix V Test Boring Construction Standards. Added construction requirements for test borings.	-To provide specification and minimum standards for test borings to ensure uniform and consistency application to protect water resources consistent with existing well ordinance requirements.	X	X				X		

SETBACK COMPARISON TABLE – Compares the Current LAMP (2015 version) to Updated LAMP Final Draft (2024 Version)

Note - Table is in red-line/strike-out to indicate what the changes are. Description of the changes in the right column.

				Description of the Changes
Table 6.6-1: OWTS Minimum Setback Requirements				Consolidated by grouping setbacks under septic tank and dispersal type.
Setback Descriptions	Septic Tank	Leach lines and deep beds (depth < 10')	Vertical Pits and deep beds (depth > 10') ¹²	Added Footnote 12 to allow installation of deep dispersal systems under a driveway, if needed.
Water Well – Private ¹	100'	100'	150'	Amended Footnote 1 to remove information for public well. Added reference to well standards. Added hand dug wells. Added reference of distance to sewer lateral per County Plumbing Code and well standards.
Water Well – Public ¹	150'	150'	200'	Added row for public well and moved information from footnote to table. Added a setback for the septic tank.
Property Line ²	5'	5'	10'	Added footnote to address undeveloped lots as current practice.
Structures, driveways, swimming pools	5'	8'	10'	Added driveways, swimming pools to table as current practice.
Water Mains (public) ³	--	25'	25'	Added footnote to address easements and to cite CA Water Works Standards.
Private Utility Trenches	5'	10'	10' ⁶	Added a setback for septic tanks (RB comment). Removed Footnote 6 for this setback item.
Road or other Easements ⁴	5'	10' from edge of ultimate easement width	10' from edge of ultimate easement width	Added 'or other' to address other easement types. Added a setback for septic tanks (RB comment). Added language to Footnote 4 that additional distance may be required.

Septic Tank	--	5'	10'	No changes.
Drip Lines	5'	6'	6'	Added setback item and minimum distances for drip lines.
Leach Lines ³⁵	5'	10' center to center	15' 10' from edge to edge	Changed distance from leach lines to seepage pits from 15' to 10' (Stakeholder comment). Added Footnote 5 to allow for further distance reduction in specific conditions (Stakeholder comment).
Deep Beds	10'	10' from edge to edge	10' from edge to edge	Created new setback category and moved deep beds from the Seepage Pits category. Changed setback to 10' edge to edge.
Seepage Pits and deep beds	10'	15' from edge to edge	20' from edge to edge of excavation	Added 'from edge to edge' for clarity and consistency.
Cut Slope ^{4,5,6,7,8}	10'	5' horizontal distance for every 1' in rise setback from top of cut slope to maximum of 100'	5' horizontal distance for every 1' in rise setback from top of cut slope	Added setback to septic tank (RB comment). Removed Footnote 5. Added Footnote 6 to address reduced setback for drip dispersal. Footnote 7 is same as original Footnote 5 from current LAMP. Footnote 8 added to address other setback that may be required based on a slope stability study.
Unstable Land Mass ⁸	100'	100'	100'	Added setback item and minimum distances for unstable land mass (5-yr Eval. Recommendation). Added setback to septic tank (RB comment).
Graywater Dispersal Areas	5'	5'	5'	Added setback item and minimum distances for graywater systems.
Drainage Course	--	50 from centerline or top of bank ⁷	50 from centerline or top of bank	Deleted this setback category as new categories were added and existing categories were further defined to address different types of drainage courses.
Stormwater features, surface runoff channels, swales, man-made ponds, and ditches 5' in depth or less ¹⁰	25'	25'	25'	Added setback item and minimum distances for stormwater features as current practice and as different than flowing water body or drainage course set back. Added a requirement depth of 5'. Added Footnote 10 to allow for a reduction in specific conditions.
Stormwater features, surface runoff channels, swales, man-made ponds, and ditches greater than 5' in depth ¹⁰	50'	50'	50'	Added setback item for these features with a depth requirement of greater than 5' with a setback of 50'.
Springs, Flowing Surface Water Bodies, Streams, Creeks, Rivers, Ephemeral ⁹ , Intermittent Water Bodies	--100'	100' from edge of flow line or top of bank	100' from edge of flow line or top of bank	Added additional flowing water bodies consistent with OWTS Policy. Added setback to septic tank (RB comment). Added ephemeral to this category with a footnote allowing a reduction when using OWTS with supplemental treatment.
Pond, Lake, Reservoir, Vernal Pools, Wetlands, Other Surface Water Bodies	--200'	100' 200' from spillway elevation or from where the edge of that water body is the high-water mark, whichever is greater	100' 200' from spillway elevation or from where the edge of that water body is the high-water mark, whichever is greater	Added additional water bodies consistent with OWTS Policy. Added setback to septic tank RB comment). Added language consistent with OWT Policy.
Aqueduct ^{3,11}	--100'	5:1 setback 100' to pipeline	5:1 setback 100' to pipeline	Added a setback to septic tank (RB comment). Changed setback to 100'. Removed original Footnote 3 allowing a maximum setback of 100'. Added Footnote 11 keeping original reduction to 50' under specific conditions and to address a greater setback if utility requires.
Lake, Reservoir, Flowing Water Body for OWTS located >1,200 feet of Surface Water Intake of Public Water System	--100'	400'	400'	Added setback item to table from original Footnote 2). Added a setback to septic tank (RB comment).

<p>Lake, Reservoir, Flowing Water Body for OWTS located 1,200'-2,500' of Surface Water Intake of Public Water System</p>	<p>—100'</p>	<p>200'</p>	<p>200'</p>	<p>Added setback item to table from original Footnote 2). Added a setback to septic tank (RB comment).</p>
<p>1. The minimum setback required to a public water well is 150 feet and increases to 200 feet where the depth of the dispersal system exceeds 10 feet in depth. The minimum setback may be increased if site conditions show the minimum setback is insufficient to protect groundwater supplies.</p> <p>2. Where the dispersal system is within 1200 feet of surface water intake point, the setback shall be 400 feet. Where the dispersal system is greater than 1200 feet of the surface water intake point, the setback shall be 200 feet.</p> <p>3. Maximum setback of 100 feet. A reduction in setback to 50 feet may be considered with engineering to demonstrate no risk of sewage moving laterally to pipeline trench.</p> <p>4. The setback may increase if the 5:1 setback to a road cut is greater than the minimum setback.</p> <p>5. This maximum 100-foot setback would also be applied to the top of an eroded bank or natural slope in excess of 60%. A reduction in setback to 50 feet may be considered with engineering to demonstrate no risk of sewage surfacing on the face of the bank or slope.</p> <p>6. For trenches less than 2 feet in depth, a 5:1 setback based on the trench depth can be used.</p> <p>7. Setback increases to a 5:1 setback if drainage is greater than 10 foot in depth.</p> <p>1-The minimum setback may be increased if site conditions show the minimum setback is insufficient to protect groundwater supplies. Setback includes hand dug wells. All wells must meet well standards as required pursuant to San Diego Regulatory Code Title 6, Division 7, Chapter 4. Minimum distance from building sewer (lateral) is 50' (County Plumbing Code, California Well Standards).</p> <p>2-Applies to developed lots, and undeveloped lots of sufficient size, with no potential to impact neighboring parcel. For lots with potential to impact neighboring parcel, minimum distance to property line from dispersal field is 50'.</p> <p>3-25' from water main or 10' from edge of easement, whichever is greater. California Waterworks Standards are applicable (California Code of Regulation, Title 22, Division 4, Chapter 16).</p> <p>4-The setback may increase if a cut slope is present and the 5:1 (5' horizontal distance for every 1' vertical distance) setback to the road cut is greater than the minimum road easement setback. Setback may increase if easement documents require a greater distance.</p> <p>5-The distance between leach lines can be reduced to 6' from sidewall to sidewall for sites where the design percolation rate is 30 MPI or less, the effluent is distributed by equal distribution (distribution box), and the slope is 10% or less.</p> <p>6-For drip dispersal: a 3:1 setback (3' horizontal distance for every 1' in vertical rise) from top of cut slope to maximum of 25' is permitted.</p> <p>7-The maximum 100' setback would also be applied to the top of an eroded bank or natural slope more than 60%. A reduction in setback to 50' may be considered when the site evaluation demonstrates adequate site characteristics to prevent sewage surfacing on the face of the bank or slope.</p> <p>8-Other setback distance allowed, if recommended by a geotechnical report prepared by a qualified professional (see slope stability requirements).</p> <p>9-Setback may be reduced to 50' where an OWTS with supplemental treatment is utilized.</p> <p>10-This setback may be reduced to 10' for man-made features that are fully lined, contained in a watertight tank or pipe, or where the site evaluation shows no potential for comingling with wastewater.</p> <p>11-A reduction to 50' may be considered when the site evaluation demonstrates adequate site characteristics to prevent sewage moving laterally to pipeline trench. Where a utility requires a greater setback distance, this distance shall apply.</p> <p>12-Rock-filled deep bed and vertical seepage pit dispersal systems may be allowed to be installed under a driveway if site conditions warrant.</p>				