MOHAVE COUNTY DEVELOPMENT SERVICES

P. O. Box 7000 Kingman, Arizona 86402-7000 3250 E. Kino Ave, Kingman www.mohave.gov Telephone (928) 757-0903 FAX (928) 757-3577

Scott Holtry
Department Director

Sam Elters, P.E.
County Manager/County Engineer

Environmental Quality/Waste Disposal Division

ON-SITE WASTEWATER APPLICATION FOR OWNER/BUILDERS

MOHAVE COUNTY DEVELOPMENT SERVICES DEPARTMENT ENVIRONMENTAL QUALITY/WASTE DISPOSAL DIVISION		
BULLHEAD CITY 1130 HANCOCK ROAD ZIP 86442 (928) 758-0707	**KINGMAN** 3250 E. KINO AVENUE ZIP 86409 (928) 757-0903	**LAKE HAVASU CITY** **(DROP BOX ONLY)** 2001 COLLEGE DRIVE, STE. 95 ZIP 86403 (928) 757-0903

bhcpermitstaff@mohave.gov kgmpermitstaff@mohave.gov

CONTENTS

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Dear Owner/Builder:

This packet is to help you through the process of obtaining a permit to construct a conventional septic system on your own residential property. This packet will give you step-by-step directions and appendices which will help you in this process. Please take a few moments to carefully read all the instructions contained in this packet.

While Development Services can provide resources to help you through this process, we are unable to design the system for you. If you require further help with design of your system, you must contact a third party to help you in this regard.

Sincerely,
Scott Holtry, Director
Mohave County Development Services
E-Mail: kgmpermitstaff@mohave.gov

Please Note

The FIRST step is to have an approved site evaluator perform soils and/or percolation testing at your property. A list of the persons (site evaluators) who are approved to conduct this type of testing in Mohave County is included in the packet. This testing must be completed by a third party who is approved in Mohave County and cannot be performed by the owner of the property.

The application CANNOT be turned into the Development Services office without the completed Site Investigation Report.

Following are the components of the application with instructions to help you along:

Procedures to Obtain Construction & Discharge Authorizations

- Read carefully for an overview of how this process will work.

Mohave County Application Worksheet

- Fill in numbers 1-6 and 8-11.

Notice of Intent to Discharge for a Conventional Septic tank & Disposal Field System

a. Fill in General Information Section.
b. Fillin in Supplemental Information.
   i. Section 10 (gallons per day) may be found by using Fixture Count Calculation Worksheet.
   ii. Soil Absorption Rate: Refer to the Site Investigation Report given to you by your site evaluator. It will be listed as the "S A R"
c. Fill in Other Miscellaneous Required Information.
d. Fill in Name, Sign and Date the Notice of Intent.

Disposal Field Design/Configuration

a. The required absorption area may be found by dividing your projected sewage flow (gallons per day) by your Soil Absorption Rate (SAR – found in your Site Investigation Report given to you by your site evaluator)
    i. Example: 450 gpd ÷ 0.6 gpd/sq. ft = 750 sq. ft. absorption area
b. Fill in A through D.
    i. B is the width of the distribution pipe (leach pipe) plus 2" of rock
    ii. C is the total depth of aggregate. The maximum effective depth is 4 ft, depending on any limiting conditions noted by the site evaluator.
    iii. D is the total of A through C.
c. Fill in Trench Width.
d. Fill in Total Length of trench (100 ft. is the maximum a single line may be)
    i. Find the total length of trench by dividing the total absorption area by the effective depth PLUS width of the trench.

    Example:

    750 sq. ft. absorption area
    4 ft. effective depth (sidewall area x 2) = 8 ft.
    3 ft. trench width
    750 sq. ft. ÷ 8 + 3 (11) = 69 ft. length

Site Plan

a. Refer to Appendix B for instructions and a sample site plan.
b. Refer to Appendix C for minimum setback requirements.

Sewer Availability Information Sheet

- This sheet must be turned in with every application. If you live in an area where sewer MAY be available, you MUST have the sheet completed by the local sewer provider to verify if your property must connect to an available sewer system. In more rural locations homeowner will sign form.

Temporary Agreement Sheet

- This sheet must be turned in with every application, acknowledging the requirements to connect to any future municipal sewer systems when service may become available per R18-9-A309.A5.

List of Materials and Components for constructing the on-site wastewater facility

- Refer to Appendix A for a sample list.

Operation & Maintenance Manual

- Refer to Appendix E for a sample.

Inspection

- Refer to Appendix D for an inspection checklist. This are the things the inspectors will be looking for the day of the inspection.

Owner Authorization

- If anyone other than the property owner will be applying for the permit on behalf of the property owner; this form is required. It must be signed by the owner and notarized. This does not allow someone other than the property owner to build the system if you are applying owner builder.

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County Manager

PROCEDURES TO OBTAIN DISCHARGE AUTHORIZATION
FOR AN ONSITE WASTEWATER TREATMENT FACILITY
TYPE 4.02 GENERAL PERMIT
CONVENTIONAL SYSTEM

The following must be submitted in order to complete an application for the above-referenced facility type(s).

Please submit in the following order:

1. Mohave County Permit Application Worksheet
2. Notice of Intent to Discharge
3. Fixture Count Calculation Chart Worksheet
4. Design Configureation Sheet
5. Draft Operation and Maintenance Manual (Alternative Systems Only)
6. On-site Wastewater Facility Site Plan ***USE ENGINEER'S SCALE – MAX. 1"=60'**
7. Sewer Availabilty Sheet
8. Temporary Agreement
9. List of Materials and Components for constructing the on-site wastewater facility
10. Property Floodplain Information Sheet **(PFI)**
11. Site Investigation Report

The application will be reviewed by the appropriate district office. If the application is complete and all requirements have been met, a Construction Authorization will be issued to the applicant.

Construction may begin of the on-site wastewater facility. When construction is completed, a Request for Discharge Authorization must be submitted to the appropriate district office requesting an inspection of the facility. The following must be submitted with this form:

1. Final as-built site plan of the project, if it differs from the proposed plan.
2. Certification that the septic tank passed the required watertightness test in the field, after installation.

When the above documents are received, the district office will perform a final inspection of the facility. If the facility was constructed according the approved plan and is in compliance with all applicable State laws and local regulations, a Discharge Authorization will be issued.

Notes:

1. Construction of the facility CANNOT take place until the Construction Authorization is issued.
2. Discharge CANNOT take place until the Discharge Authorization is issued.
3. If the construction differs from the proposed plan, and a second inspection and/or second review of the system is necessary, additional fees will apply.
4. You must complete a Sewer Availability Information Sheet from the sewer provider for your property location. This **MUST** be done **PRIOR** to having a site investigation and must be attached to the application submittal.

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County Manager

NOTICE OF INTENT TO DISCHARGE FOR A CONVENTIONAL SEPTIC TANK AND DISPOSAL FIELD SYSTEM
(Type 4.02 General Aquifer Protection Permit)

INSTRUCTIONS

Please fill out and submit this Notice of Intent to Discharge (NOI) to obtain authorization to construct and operate a septic tank and disposal field under a Type 4.02 General Aquifer Protection Permit in accordance with Arizona Administrative Code (A.A.C.) R18-9-E302.

GENERAL APPLICATION PROCESS

1. Submit this NOI and appropriate supplemental information and forms, which are identified in this form. Please submit this application to the appropriate district office listed below:

Bullhead City District
1130 Hancock Rd.
Bullhead City, AZ 86442
(928) 758-0707
bhcpermitstaff@mohave.gov

Kingman District
3250 E. Kino Ave.
Kingman, AZ 86409
(928) 757-0903
kgmpermitstaff@mohave.gov

Lake Havasu City District (Drop Box Only)
2001 College Ave, Suite 95
Lake Havasu City, AZ 86403
(928) 757-0903

2. Review fees established by the Mohave County Board of Supervisors. The fee is due at time of application submittal. Each Request for "Approval of Alternative Feature of Technology, Design, Setback, Installation, or Operation" submitted with this NOI is subject to an additional fee. Each resubmittal, additional inspection and/or consultation is subject to an additional fee. If a system is installed before the "Construction Authorization" is given, an additional fee will be assessed along with possible legal action.
3. Satisfy any deficiency requests arising from the Department's pre-construction review of the submitted information.
4. Receive a "Construction Authorization" from the Department authorizing construction of the onsite wastewater system.
5. Construct the onsite wastewater system within two years.
6. Upon completion of construction, submit a Request for Discharge Authorization and any required information to the Department to initiate the Department's post-construction review and inspection. If the applicant has not completed the entire project as stated in the "Construction Authorization" and is submitting a Request for Discharge Authorization for the portion completed, the applicant will need to resubmit a NOI for the remaining portion of the project.
7. Satisfy any deficiency request arising from the Department's post-construction review of the facility.
8. Receive a "Discharge Authorization" from the Department, which authorizes operation of the septic tank and disposal field in accordance with the terms of the Type 4.02 General Aquifer Protection Permit and applicable requirements of statute and rule.

LICENSING TIME FRAMES (LTF)

Licensing Time Frames are specified by the Arizona Department of Environmental Quality in AAC R18-1-525, Table 10. They are:

License Type	Administrative Completeness Review	Substantive Review (plan review)	Overall Time Frame
Single 4.02, 4.03, 4.13, 4.14, 4.15, 4.16 General Permits	42 days	31 days	73 days
Combined Two or Three Type 4 General Permits	42 days	53 days	95 days
Combined Four or more Type 4 General Permits	42 days	94 days	136 days

Mailing Address: DEVELOPMENT SERVICES P.O. Box 7000, Kingman, AZ 86402-7000

Mohave County
Permit Application Worksheet
Residential

Date_____

Project # _____

Permit # _____

PLOT PLANS MUST BE NO LARGER THAN 8 ½ " X 11"
NOTE: Shaded areas are for county use only.

1. Type of Improvement: _____
2. Applicant's name: _____
   Mailing address: _____
   City: _____ State: _____ Zip: _____
2A. Contact Name: _____ **PHONE**: _____
   Fax Number: _____ Email: _____
3. Property Owners Name: _____
   Mailing Address: _____
   City: _____ State: _____ Zip: _____
   Fax Number: _____ Email: _____
4. **SITE LOCATION ADDRESS**: _____ _____ _____
   House No Street Dir Street Name:
5. Legal Description:
   Assessor Parcel Number: ___ ___ ___ - ___ ___ - ___ ___ ___ ___ Parent Parcel: ☐ Yes
   Subdivision Name: _____ Corner Lot: ☐ Yes
   Unit/Tract/Block/Lot: 0 -- 0 -- 0 -- 0
   Township/Range/Section: 0 -- --
6. Plot Plan Drawing (see instructions on plot plan form) Cont Acres

Public Works, Flood Control Division

7. Is there an existing structure? ☐ YES ☐ NO
7A. Previous PFI#: _____ Previous FUP#: _____

Environmental Quality Division

8. Is this an existing system? ☐ YES ☐ NO
8A. Is this a Conventional Septic? ☐ YES ☐ NO, Alternative System? ☐ YES ☐ NO
9. Septic Tank Size: _____ Manufacturer: _____
10. Septic Contractor: _____ License #: _____
    Or Owner / Builder: ☐ YES ☐ NO
11. Water Source: _____

Number of bedrooms:_____

Number of fixture units:_____

Planning & Zoning Division

12. Zoning: _____

BAL DUE $_____

Note: Must provide construction drawings for Development Services application

Permit staff can answer questions or provide assistance during the application process either in person or by phone at the offices and numbers listed above. If you are unable to receive assistance, you may contact the Environmental Engineering Manager at the Kingman office (928) 757-0903.

Under ARS §11-1609, you may request that the County clarify its interpretation or application of a statute, ordinance, regulation, delegation agreement or authorized substantive policy statement that affects the issuance of your permit by providing the County with a written request that states: 1. Your name and address; 2. The statute, ordinance, regulation, delegation agreement or authorized substantive policy statement that requires clarification; 3. Any facts relevant to the requested ruling; 4. Your proposed interpretation of the applicable statute, ordinance, regulation, delegation agreement or authorized substantive policy statement or part of the statute, ordinance, regulation, delegation agreement or authorized substantive policy statement that requires clarification; 5. Whether, to the best of your knowledge, the issues or related issues are being considered by the County in connection with an existing license or license application.

NOTICE OF INTENT TO DISCHARGE FOR A CONVENTIONAL SEPTIC TANK AND DISPOSAL FIELD SYSTEM
(Type 4.02 General Aquifer Protection Permit)

GENERAL INFORMATION

1 Project Name: _____

2 Owner/Operator (person responsible for overall compliance)

Name _____ Phone_____

Title _____ Firm Name_____

Mailing Address _____ City _____ Zip _____

3 Applicant

Name _____ Phone_____

Title _____ Firm Name_____

Mailing Address _____ City _____ Zip _____

4 Contact Person/Agent (if different from applicant)

Name _____ Phone_____

Title _____ Firm Name_____

Mailing Address _____ City _____ Zip _____

5 Installation Contractor Name and Information

Name _____ Phone_____

License Number _____ Firm Name_____

Mailing Address _____ City _____ Zip _____

6 Site Information

County _____ City_____

Location of downstream end of system proposed herein

Township _____ Range _____ Section _____,

Latitude _____° _____’ _____”N _____ Longitude _____° _____’ _____”W

Legal Description of Property

_____

7 Existing Environmental Permits

List any other federal or state environmental permits issued for or needed by the facility, including any individual permit, Groundwater Quality Protection Permit, or Notice of Disposal that may have previously authorized discharge (attach additional pages if necessary)_____

SUPPLEMENTAL INFORMATION

8 Information and Submission Requirements (Check All Completed Items – attach to application)

- ☐ Site Investigation Report (original) per A.A.C. R18-9-A309(B)(1)
- ☐ Site Plan and construction quality drawings of the system per A.A.C. R18-9-A309(B)(2) and (6)(a)
- ☐ Operation and Maintenance Manual per A.A.C. R18-9-A309(B)(6)(b), A313(B) and A309(C)(2)(c)
- ☐ List of Materials, Components and Equipment per A.A.C. R18-9-A301(B) and A309(C)(2)(b)
- ☐ Agency review fee (see instructions)

9 Project Description (Check One)

☐ Conventional Septic System Serving a Single-Family Residence
☐ Conventional Septic System Serving Other Than a Single-Family Residence

10 Septic Tank and Disposal Field Description

This on-site wastewater treatment facility consists of an conventional septic tank system and disposal field sized for a design flow of _____gallons per day. The flow is based on number of bedrooms and/or fixture units:

Number of Bedrooms _____ Number of Fixture Units _____

☐ Floor plan included in this application packet

The septic tank conveys wastewater to a disposal field consisting of (check one):

☐ Trench
  ☐ Filled with aggregate [R18-9-101(1)], or
  ☐ Filled with crushed, recycled concrete [R18-9-E302(C)(2)(d)]
☐ Bed
☐ Chamber Technology
☐ EZFlow

The expected date of first operation of this system is: _____

The sewage to the septic tank has the characteristics of:

☐ Typical household sewage, or
☐ Typical household sewage and _____
_____(list other sources and characteristics of the wastewater)

Site Investigation Information

☐ Percolation Test Conducted Rate:_____mpi
☐ Soils Testing Conducted

Soil Absorption Rate (assigned by Site Investigator): _____ gpd/sq. ft

11 Other Miscellaneous Required Information

Water Supply (check one):

☐ Public Water
☐ Private Well

If no public water is available, and system is located less than 50 ft. from any property line, applicant must obtain an agreement from the owners of any affected undeveloped adjacent property to limit the location of any new well on their property to at least 100 feet from the proposed treatment works and primary and reserve disposal works. The agreement must be recorded appropriately and the documentation must be approved by the Department.

☐ Letter included in this application packet

☐ Haul Water

Comment same as above ☐ Letter included in this application packet

Wash or drainage easement

If system is proposed within the 50 foot setback required by the Aquifer Protection Permits, a letter must be obtained from the appropriate flood plain administrator allowing a reduction of the setback.

☐ If applicable, letter from floodplain administrator included in this application packet

13 Certification of Compliance (To be completed by the applicant in item 3 above)

I,_____, certify that this Notice of Intent to Discharge and all attachments were prepared under my direction or authorization and all information is, to the best of my knowledge, true, accurate and complete. I also certify that the septic tank and disposal field system described in this form is or will be designed, constructed, and operated in accordance with the terms and conditions of a Type 4.02 General Aquifer Protection Permit (AAC R18-9-E302) and applicable requirements of Arizona Revised Statutes Title 49, Chapter 2, and Arizona Administrative code Title 18, Chapter 9 regarding aquifer protection permits. I am aware that there are significant penalties for submitting false information including permit revocation as well as the possibility of fine and imprisonment for knowing violations.

_____ _____
Signature Date

DEPARTMENT USE ONLY		DATE STAMP
File Number		
Fee Paid for this Project		
Check Total		

FOR RESIDENTIAL USE

FIXTURE COUNT CALCULATION CHART

Use the fixture count chart below to determine the total number of fixture units in the home. **Check the corresponding box on the system design flow chart based on your fixture count or number of bedrooms *whichever is greater*.** The box that is checked is the row where you'll find your minimum tank size and system design flow. Enter the information at the bottom of the page, and submit this form with your application.

Residential Fixture Type	Existing # Fixtures	Proposed # Fixtures	Multiply by	Fixture Units	Equals	Total # PROPOSED Fixtures
Bathtub			x	2	=	
Bidet			x	2	=	
Dishwasher, service			x	2	=	
Clothes washer			x	2	=	
Utility tub or sink separate from clothes washer			x	2	=	
Sink, kitchen (with or without dishwasher			x	2	=	
Shower, single staff			x	2	=	
Sink, bar			x	1	=	
Sink, service			x	3	=	
Lavatory, single or double			x	1	=	
*Toilet, 1.6 gallons per flush (gpf)			x	3	=	
*Toilet, 1.6 - 3.2 gpf			x	4	=	
*Toilet >3.2 gpf			x	6	=	
				FIXTURE COUNT TOTAL	=	
				Physical # Bedrooms	=	

*Toilets currently available in Arizona are 1.6 gallons per flush. Older fixtures may not use the same amount of gallons per flush.

SYSTEM DESIGN FLOW CHART

✓	No. of Bedrooms	Fixture Count	Minimum Tank Size (gallons)	System Design Flow (gpd)
☐	1	7 or less	1000	150
☐		More than 7 less than 14	1000	300
☐	2	14 or less	1000	300
☐		More than 14 less than 21	1000	450
☐	3	21 or less	1000	450
☐		More than 21 less than 28	1250	600
☐	4	28 or less	1250	600
☐		More than 28 less than 35	1500	750
☐	5	35 or less	1500	750
☐		More than 35 less than 42	2000	900
☐	6	42 or less	2000	900
☐		More than 42 less than 49	2500	1050
☐	7	49 or less	2500	1050
☐		More than 49 less than 56	3000	1200
☐	8*	56 or less	3000	1200
☐		More than 56*	3000	1350

***NOTE: For a single residence with more than 8 bedrooms or more than 56 fixture units, use R18-9-A314 (D) (2) as the basis for determining minimum septic tank size and system design flow.**

DISPOSAL FIELD DESIGN/CONFIGURATION

Trench, Bed or Chamber Cross-section

PROJECTED SEWAGE FLOW: _____ g.p.d. / SOIL ABSORBTION RATE (SAR): _____

ABSORPTION AREA: _____

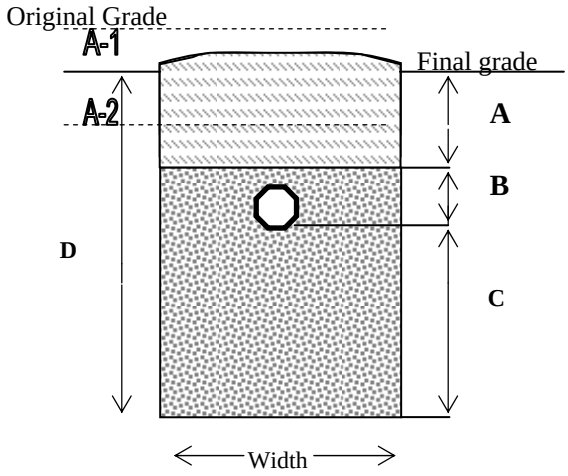
Trench Configuration

Please indicate vertical depths using inches.

A. Backfill to final grade …….. _____
   A-1 [Graded soil area, state using a (-) sign] _____
   A-2 [Fill or topsoil, state using a (+) sign] _____
B. Distribution pipe w/ 2" of rock _____
C. Aggregate depth (effective depth) _____

D. Total trench depth _____

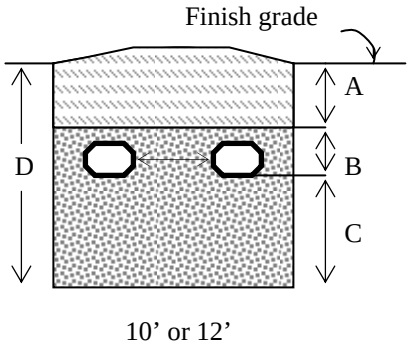
Trench width _____
Total length of trench _____ (ft.)



Gravity Beds

A. Backfill _____
B. Distribution line with 2" of aggregate material _____
C. Aggregate depth _____
D. Total Bed depth _____
   (Gravity Bed **shall** be less than 5' total depth)

Trench width 10' or 12' (circle one)
Distance between pipes 4' or 6' **(**circle one)
Total length of Bed _____



Chamber Technology

Manufacturer _____

Model # _____

Width of the open bottom absorption surface of chamber: _____
Vertical height of the chamber side wall _____
Length of the chamber _____

Chamber Area = (1.8 x W x L) + (2 x V x L)

Number of Chambers: _____
Length of disposal field: _____

EZflow EPS Aggregate System Worksheet

Permit/File #: _____ **Designed by:** _____ **Date:** _____

FIXTURE COUNT CALCULATION CHART

FIXTURE TYPE	*UNIT*		*# OF FIXTURES*		*TOTAL FIXTURE UNITS*
Bath Tub	**2**	X		=	
Bidet	2	X		=	
Clothes Washer	**2**	X		=	
Dishwasher (separate from kitchen)	2	X		=	
Lavatory (bathroom sink), single	**1**	X		=	
Lavatory, double in master bedroom	**1**	X		=	
Shower, single stall	**2**	X		=	
Sink, bar	**1**	X		=	
Sink, kitchen (including dishwasher)	**2**	X		=	
Sink, service	3	X		=	
Utility Tub or Sink	**2**	X		=	
Water Closet (toilet), 1.6 GPF	**3**	X		=	
Water Closet (toilet), >1.6 – 3.2 GPF	4	X		=	
Water Closet (toilet), >3.2 GPF	6	X		=	
				TOTAL FIXTURE UNITS:	

Items in BOLD are the most commonly used fixtures

"Bedroom" means, for the purposes of determining design flow for an on-site wastewater treatment facility for a dwelling, any room that has:

a) Floor space of at least 70 square feet in area, excluding closets;
b) Ceiling height of at least 7 feet;
c) Electrical service and ventilation;
d) A closet or an area where a closet could be constructed;
e) At least one window capable of being opened and used for emergency egress; and
f) A method of entry and exit into the room which allows it to be considered distinct from other rooms in the dwelling to afford a level of privacy customarily expected for such a room.

Bedroom/Equivalent Worksheet	
Room Type	*Number of Rooms*
Bedroom	
Den	
Office	
Other:	
Other:	
Other:	
Total:	

TRENCHES HAVE A MAXIMUM OVERALL DEPTH OF FIVE (5) FEET ABOVE DEPTH OF TEST HOLE

TANK SIZE (*from Septic System Sizing Chart*) = _____

DESIGN FLOW (*from Septic System Sizing Chart*) = _____

PERCOLATION RATE
(*from the Soils Report or Disposal Area Calculation Table*) = _____

SOIL ABSORPTION RATE
(*from the Soils Report or Disposal Area Calculation Table*) = _____

TOTAL SQUARE FOOTAGE REQUIRED
(*divide DESIGN FLOW by SAR or use Design Flow Calculation Table)* = _____

EZFLOW CONFIGURATION
(refer to EZFLOW Design Table; select from drop down list) = _____

DIVISOR USED (refer to EZFLOW Design Table) = _____

TOTAL LINEAR LENGTH OF TRENCH REQUIRED (*divide TOTAL SQUARE FOOTAGE by DIVISOR***)** = _____

Proposed Number of Trenches _____

Proposed Length of each Trench _____

Proposed Width of each Trench _____

Proposed Overall Depth of each Trench _____

Separation Between Trench Edges _____

- The maximum length for any disposal field is 100'. If the total linear length of trench is greater than 100', use a distribution box to divide the total length into multiple trenches of equal length to distribute the effluent more effectively throughout the disposal field.
- The separation between the trench walls is a minimum of 5' or twice the effective depth, whichever is greater.
- Additional inspection risers, placed in the center of the trench, are required for any trench greater than 50' in length.

ON-SITE WASTEWATER SYSTEM
SITE PLAN

(for 4.02 General Permit only. 4.03-4.22 must provide construction quality drawings)

Address:	☐ **North Arrow shown**
Assessor Parcel:	☐ **Boundaries of property shown on plan**
Legal Description:	☐ **Proposed/existing systems, dwellings, buildings, driveways, swimming pools, tennis courts, wells, ponds, and any paved, concrete or water feature, shown.**
	☐ **Slopes and cut banks greater than 15%, retaining walls and other constructed features shown**
	☐ **Any feature less than 200 ft. from facility and reserve area that constrains the location due to setback limitations shown**
	☐ **Topography shown with contour intervals, showing original and post-installation grades**
Property Size (in acres):	☐ **EXACT LOCATION of all soils testing and percolation sites**
Engineer's Scale (max 1"=60'):	☐ **Location of the treatment and disposal works, pipelines, reserve area**
Permit Number:	☐ **Location of any public sewer if less than 400 ft. from property line**

Proper construction and installation of this system shall follow all applicable Federal, State, County and City laws. Mohave County disclaims any responsibility of the construction, installation, errors or omissions involved with this system and the sole responsibility for any of the above is with the owner or his/her contractor (s) and/or agents (s). The as-built drawing is provided for ease and convenience to locate the system in the future and not for construction purposes.

The information within the site plan submitted is true and accurate to the best of my knowledge;

_____ Date: _____

Signature Title

MOHAVE COUNTY
DEVELOPMENT SERVICES

P. O. Box 7000 Kingman, Arizona 86402-7000 3250 E. Kino Ave, Kingman www.mohave.gov Telephone (928) 757-0903 FAX (928) 757-3577

SEWER AVAILABILITY INFORMATION SHEET

Service Provider/Company Name:	Submitted by:		
	Telephone:		
	Fax:		
Date:			
Name of Property Owner:			
Location Address:			
Subdivision:	Tract:	Block:	Lot:
Assessor Parcel Number:			

Indicate below what type of project will be constructed on the above mentioned property:

☐ Residential (Single Family Only)	
☐ Commercial/Multi-family	Estimate flow rate in gallons per day:
☐ Industrial	Estimate flow rate in gallons per day:

Flood Zone:

Applicant Signature:

Per an inquiry with the above-referenced service provider regarding the availability of sanitary sewer to serve the above-referenced location, sewer is available at property:

☐ Yes, sewer is available and will be connected to
☐ No, sewer connection exceeds fees of R18-9-A309(A)(5)(b) (Engineers/Contractor's Estimate req.)
☐ N/A, no sewer service provider in subdivision

DISCLAIMER: For North Kingman / New Kingman Addition / Butler: if property is greater than 100' but less than 500' from City of Kingman Sewer, opting to use on an onsite wastewater system may result in the City of Kingman denying water service should an existing water meter not exist on the property at the time of septic permit issuance.

Does this property have an existing water meter: ☐ YES ☐ NO

Distance to sewer: feet

Comments: _____

Sewer Provider Representative Signature:

MOHAVE COUNTY
DEVELOPMENT SERVICES

P. O. Box 7000 Kingman, Arizona 86402-7000 3250 E. Kino Ave, Kingman www.mohave.gov Telephone (928) 757-0903 FAX (928)757-3577

Scott Holtry
Department Director

Sam Elters, P.E.
County Manager

TO: SANITARY DISTRICT OR UTILITY COMPANY

TEMPORARY INDIVIDUAL WASTE DISPOSAL SYSTEM

I, _____, Owner of property located in the _____ Subdivision, Tract _____, Block _____, Lot ___, Address _____, Arizona, understand that the sewage disposal system to be installed to service my residence located on the above described property is a temporary system. I, hereby agree to abandon such system in a method approved by the local Environmental Quality Department, and connect to municipal sewer system servicing our location; subject to the requirements of R18-9-A309.A.5

The Mohave County Development Services Department, Environmental Quality/Waste Management Division is to be notified prior to abandonment of the system.

TEMPORARY PERMIT # _____ ASSESSOR'S PARCEL # _____

_____ _____
SIGNATURE OF PROPERTY OWNER DATE

_____ _____
ARIZONA DEPT. OF ENVIRONMENTAL QUALITY DATE

_____ _____
MOHAVE COUNTY ENVIRONMENTAL QUALITY/ DATE
WASTE MANAGEMENT REPRESENTATIVE

MOHAVE COUNTY
DEVELOPMENT SERVICES

Mailing Address: P. O. Box 7000, Kingman, Arizona 86402-7000

Owner's Authorization to Apply for Permits

Authorization DOES NOT allow the authorized applicant to conduct installation, construction, or any other type of contracting services.

If utilizing a contractor, permit application must include contractor's AZ ROC License #.

Property Information

Date Received _____

Assessor Parcel Number _____ Parcel Size _____

Site Address _____

Legal Description _____

Property Owner

Name _____ Email _____

Phone _____ Mailing Address _____

Authorized Applicant (Not contractor, unless AZ ROC license # is listed on permit application)

Name _____ Email _____

Phone _____ Mailing Address _____

Effective Period

This authorization is: (select one) ☐for a single permit to _____

☐in effect until removed in writing

Signature(s)

_____

_____

Notary (REQUIRED)

State of _____

County of _____

This document was signed before me this _____(date) by

_____

(name(s) of person(s) signing).

The person(s) personally appeared before me and presented identification to establish his or identity as required by law.

_____

Signature of Notary

Public My Commission expires _____

MOHAVE COUNTY DEVELOPMENT SERVICES

DIVISION OF ENVIRONMENTAL QUALITY

P. O. Box 7000 Kingman, Arizona 86402-7000 3250 E. Kino Ave, Kingman www.mohavecounty.us Telephone (928) 757-0903 FAX (928) 757-3577

Scott Holtry
Department Director

Sam Elters, P.E.
County Manager

Individuals Pre-Qualified to perform **Site Investigations** in **Mohave County**

ADVANCED CIVIL SOLUTIONS, LLC.
Edward Rajnovich, Engineer
3234 E McVicar Ave
Kingman, AZ 86409
(702) 274-4973
advancedcivilsolutions@outlook.com

ALLIANCE CONSULTING
Deloss S. Hammon, P.E.
2303 N. Coral Canyon Blvd #201
Washington, UT 84780
(435) 673-8060
dsh@allianceconsulting.us

ANNETTE COOK, R.S PERC'S PLUS
PO Box 6068
Kingman, AZ 86402
(928) 727-0687 - CELL
cookannette777@gmail.com

ARQ ENGINEERING
Sandra Morse
4440 S. Highway 95, Suite A
Fort Mohave, AZ 86426
(928) 758-3333
sandym@arqllc.com

ARROYO ENGINEERING CONSULTANTS, INC
AARON C HASTINGS
1328 Echo Creek St.
Henderson, NV 89052
(702) 241-5339
aaron@aec-nv.com

BROWN CONSULTING ENGINEERS
Steve Kamlowsky, PE
163 West 1600 South #5
St. George, UT 84770
(435) 628-4700
steve@browncivil.com

CANAAN PEAKS ENGINEERING
Brian Zitting
PO Box 841515
Hildale, UT 84784
(435) 467-1069 cpeemailservice@gmail.com

CIVIL WORKS ENGINEERING
Jed Noble
(928) 279-4833
jed@civilworksengineering.com

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Glendale AZ 85308
(623) 776-5757
dcaparros@vlpartners.net

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Mesquite, NV 89027 (435)
592-2222
bullochdanny@gmail.com

ENVIROTEC
Claude Baker
PO Box 10877
Prescott, AZ 86304
(928) 445-9611
Cvb44999@gmail.com

GEOTECHNICAL & ENVIRONMENTAL SERVICES
7150 Placid St.
Las Vegas, NV 89119
(702) 9704378
mitch.gerlinger@ges-west.com

GEOTECHNICAL TESTING SERVICES
Christopher D. Volksen
1509 S. 270 E. #8
St. George, UT 84790
(435) 628-9536

IRON ROCK ENGINEERING
Sandy-Office Manager
460 E. 300 S.
Kanab, UT 84741
(435) 644-2031
sandy@ireng.net

LANDMARK TESTING & ENGINEERING
Kent R. Nelson
795 E Factory Drive
St. George, UT 84790
(435) 986-0566
kent@landmarktesting.com

MOHAVE ENGINEERING ASSOC.
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Kingman, AZ 86409
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pprofitt@meaiaz.com

NEPTUNE SERVICES PLLC
Jason K. Garner, P.E.
(928) 897-2837
mail@neptuneservicesaz.com

RACHELLE D. STALLARD, R.S.
7130 E Thrush Lane
Prescott Valley, AZ 86314
(928) 699-1001
marvinred4@gmail.com

STEPHEN DALDRUP R.S.
17396 W Jefferson St
(510) 230-8662
sdaldrup@yahoo.com

STRYTEK ENGINEERING
Russell Strytek
2428 Ashfork Ave.
Kingman, AZ 86401
(928) 757-0150
info@strytekengineering.com

SUNRISE ENGINEERING, INC.
Joseph Phillips, P.E.
11 North 300 West
Washington, UT 84780
(435) 652-8450

TIM WEISS
7150 Plasid street
(702) 365-1001
tim.weiss@gesnevada.com

WALKER MOONEYHAM
PO Box 620
Meadview, AZ 86444
626-826-5307
walkermooneyham@icloud.com

WESTERN TECHNOLOGIES
2400 E. Huntington Dr.
Flagstaff, AZ 86004
(928) 525-6782
jquinlan@rma-western.com

WESTERN TECHNOLOGIES
2400 E. Huntington Dr.
Flagstaff, AZ 86004
(928) 774-8700
gburr@rma-western.com

The above individuals/companies have met the qualifications to perform site evaluations in Mohave County by providing proper credentials/certifications. The above listings are provided as a courtesy only and in no way constitute a recommendation from this department.

APPENDIX A

ADEQ Arizona Department of Environmental Quality

Example Design for a Conventional Septic Tank Disposal Field and Draft List of Materials, Components, and Equipment

System Design Inputs

1. Proposed system is for a 3-bedroom home.
2. Fixture count in house is 25.
3. Percolation tests per Arizona Administrative Code R18-9-A310(F) show that the soil percolation rate is 25.0 min/in.
4. No surface or subsurface limiting conditions are identified at the site.
5. Inlet to septic tank will be 15 ft from building drain.

Disposal Trench Design Based on Inputs

1. Design flow is 600 gal/day based on table at R18-9-A314(4)(a)(i). *[450 gal/day for a 3-bedroom house plus another 150 gal/day for fixture count more than 21]*
2. Design liquid capacity of septic tank is 1250 gallons based on same table.
3. SAR is 0.40 gal/day/ft^2, using the table at R18-9-A312(D)(2) based on the tested percolation rate of 25.0 min/in.
4. Trench is designed to be 2 ft wide, with 4 ft of sidewalls below disposal pipe.
5. Based on selected trench configuration, the trench absorption area is 10 square feet per linear foot of trench. *[(4 ft + 2 ft + 4 ft) x 1 ft in length]*
6. Wastewater loading in trench is 4.0 gal/day per linear foot *[10 ft^2/linear ft x 0.40 gal/day/ft2]*
7. Trench length, therefore, is 150 linear feet. *[600 gal/day ÷ 4 gal/day/linear ft]*
8. Decision is made to construct two parallel 75' trenches served by distribution box. Distribution box is located 5 ft from septic tank and each trench will be constructed after a 10 ft run of pipe from distribution box.
9. Total volume of aggregate in the disposal field is 50.00 cubic yards.
   a. 44.44 yd^3 beneath disposal pipe
      [4 ft x 2 ft x 150 ft ÷ 27 ft^3/yd^3 = 44.44 yd^3]
   b. 5.56 yd^3 around and above disposal pipe
      [(4 in of pipe height + 2 in above pipe = 0.5 ft) x 2ft x 150 ft ÷ 27 ft^3/yd^3 = 5.56 yd^3]
10. Total volume of pea gravel bedding below septic tank is 1.5 yd^3 based on typical manufacturer's specification of 6 in of fill below septic tank, typical dimensions for 1250-gal septic tank of 10.25 ft x 5.25 ft, and 0.5 ft over dig of hole on each side [((10.25 ft + 0.5 ft + 0.5 ft) x (5.25 ft + 0.5 ft + 0.5 ft) = 70.31 ft^2) x 0.5 ft ÷ *27 ft^3/yd^3 = 1.30 yd^3, say 1.5 yd^3]*

Based on the above design, the following is a model list of materials for submittal with the Notice of Intent to Discharge:

List of Materials, Components, and Equipment

1	**ea**	**1250-gallon septic tank with effluent filter meeting the requirements of Arizona Administrative Code (A.A.C.) R18-9-A314.**
2	**ea**	**Riser with cover, [brand/model] or equivalent, meeting the requirements of A.A.C. R18-9-A314(1)(d).**
1.5	**yd^3**	**Pea gravel or equivalent bedding for septic tank per manufacturer's handling and installation instructions required by R18-9-A314(3)(d)(2).**
15	**ft**	**Sewer line pipe, DMV, Schedule 40, ASTM F891, and fittings.***
50	**yd^3**	**Aggregate meeting A.A.C. R18-9-101(1).**
25	**feet**	**Distribution pipe (thin wall), PVC, 4-inch, ASTM D2729, and fittings.*** *[5 ft + 10 ft + 10 ft]*
150	**feet**	**Disposal pipe (thin wall), PVC, 4-inch, perforated, ASTM D2729, and fittings.***
1	**ea**	**Distribution box with seals, minimum of 2 outlet holes, [brand/model] or equivalent.**
150	**feet**	**Geotextile, minimum 24-inch wide, [brand/model] or equivalent.**

*Typical pipe specifications that might be used in disposal field installations:

1. Normal solid PVC "thin wall" pipe
   a. PVC distribution pipe, 3-inch, ASTM D2729
   b. PVC distribution pipe, 4-inch, ASTM D2729
2. Perforated PVC "thin wall" pipe
   a. PVC disposal pipe, perforated, 3-inch, ASTM D2729
   b. PVC disposal pipe, perforated, 4-inch, ASTM D2729
3. Schedule 40 PVC DWV (drain, waste, and vent) pipe
   a. DWV, Schedule 40, 3-inch, ASTM F891
   b. DWV, Schedule 40, 4-inch, ASTM F891
4. Solid black ABS Schedule 40 pipe
   a. ABS distribution pipe, Schedule 40, 3-inch, ASTM F628
   b. ABS distribution pipe, Schedule 40, 4-inch, ASTM F628
5. SDR-35 "high strength" pipe
   a. SDR-35 distribution pipe, 3-inch, ASTM D3034
   b. SDR-35 distribution pipe, 4-inch, ASTM D3034

APPENDIX B

INFORMATION NEEDED ON ON-SITE WASTEWATER PLAN

(Please refer to example)

1. Property lines – include all distances and exact angles
2. Show scale on plan (e.g. 1"=20')
3. Show percolation test /soil evaluation locations – system must be installed in area of site evaluation.
4. Indicate "North" with an arrow
5. Streets adjacent to your property. Indicate your complete address as well as the legal description.
6. Structures (existing and proposed) including, but not limited to, mobiles, site built homes, garages, awnings, porches, decks, pools, entryways, barns, sheds, fences and retaining walls.
7. Indicate distances from the on-site system to any:
   a. slopes
   b. structures
   c. property lines
   d. easements
   e. wells
   f. rivers
   g. reservoirs
   h. water mains and domestic water lines
   i. driveways
   j. swimming pools
8. Maintain all setbacks as required by Aquifer Protection Permit R-18-9-A312(C). A list is available at the DS counter.
9. Show location of septic tank, distribution box (if applicable), leach lines and 100% reserve area.
   a. Give exact length, width and effective depth of leach field.
   b. If using more than one line, even distribution must be obtained through installation of a distribution box.
   c. 90° Angles in the leach field are not permitted.
   d. Flow must be through the head of the leach field to ensure even distribution.
10. Size the system correctly. Use the appropriate Soil Absorption Rate [SAR- provided to you by your site evaluator or you may find it in the Aquifer Protection Permit R18-9-A312 (D)].

DEFICIENCIES DURING REVIEW

Should there be any deficiencies found during the review process, the Development Services Department (DS) will immediately deny application and contact the applicant via letter or fax stating the reasons for denial. A resubmittal fee may apply to denied applications.

DESIGN OF SYSTEM

The Development Services (DS) Staff cannot design on-site wastewater systems. Should you need help with design, refer to the Aquifer Protection Permits or contact a designer. The Development Services Staff will review applications, and issue *Construction Authorizations* and *Discharge Authorizations* only.

SYSTEMS INSTALLED PRIOR TO APPLICATION APPROVAL

Should the DS Staff discover an on-site system that was installed before a *Construction Authorization* was issued (application approved), the system will be red-tagged and a fee will apply in addition to the application/permit fee.

MODIFICATIONS TO SYSTEM

Should the DS Staff inspect a system that was installed contrary to what was approved on the application **without notification**, a red tag will be issued and a fee may be applied for changes. This fee will include the review of modifications made to the system and one final inspection to be paid before a yellow tag is issued.

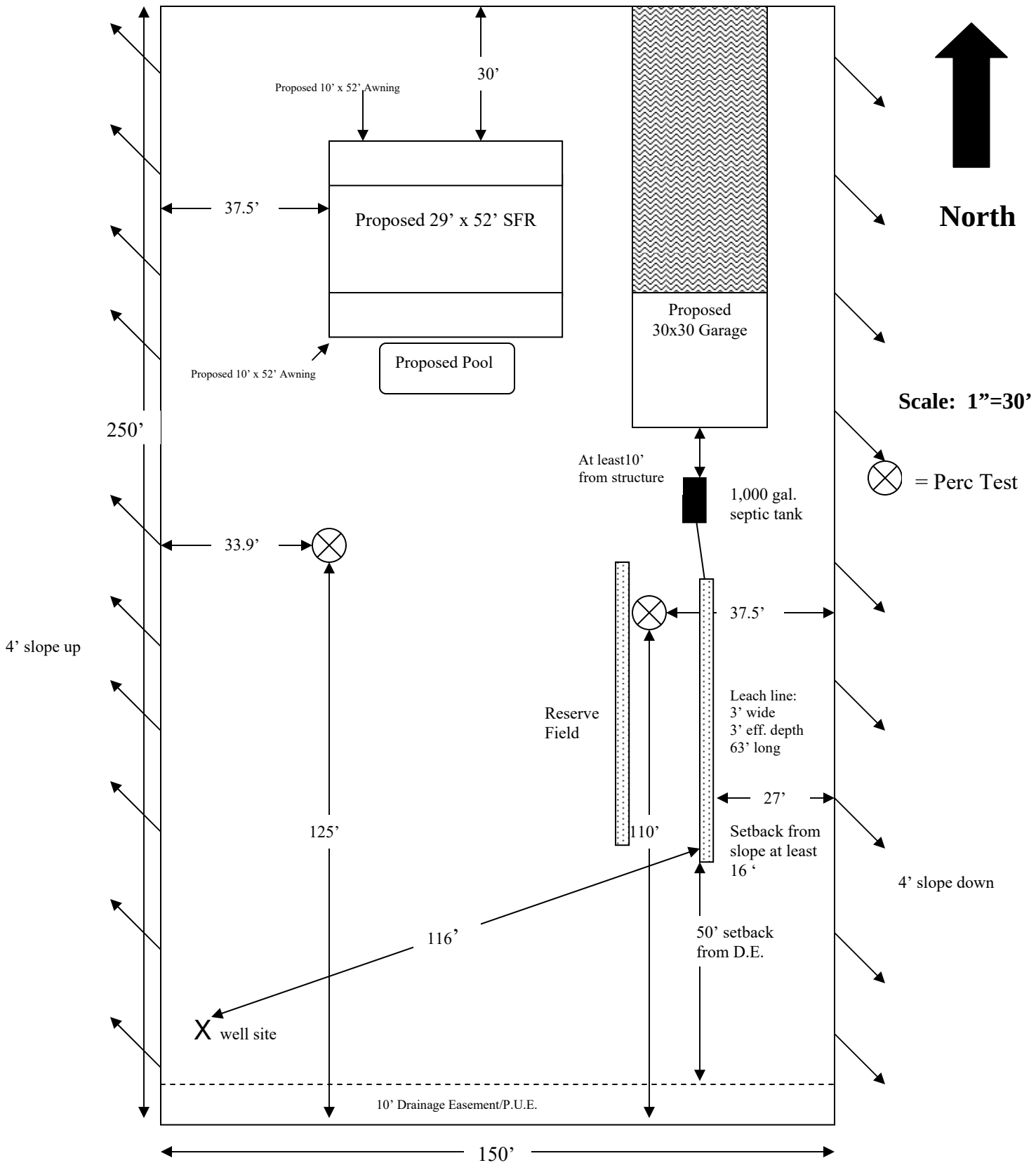
CONSTRUCTION INSPECTION DEFICIENCIES

If the DS staff are called for an inspection and the system is, in any way, installed incorrectly, a fee will be charged for each additional inspection required, after the second red tag. The fee will be payable prior to the additional inspection.

APPENDIX B

Mohave County On-Site Wastewater Example Site Plan

12345 Environmental Quality Way



Legal Description:
Assessor’s Parcel Number (APN): 123-45-678
Subdivision: Healthy People
Tract 1234 **Lot** 56 - **Block** A

APPENDIX C

C. Setbacks. The following setbacks apply unless the Department:
1. Specifies alternative setbacks under Article 3, Part E of this Chapter;
2. Approves a different setback under the procedure specified in subsection (G); or
3. Establishes a more stringent setback on a site or area specific basis to ensure compliance with water quality standards.

Features Requiring Setbacks	Setback For An On-Site Wastewater Treatment Facility, Including Reserve Area (In Feet)	Special Provisions
1. Building	10	Includes porches, decks, and steps (covered or uncovered), breezeways, roofed patios, carports, covered walks, and similar structures and appurtenances.
2. Property line shared with any adjoining lot or parcel not served by a common drinking water system* or an existing water well	50	A person may reduce the setback to a minimum of 5 feet from the property line if: a. The owners of any affected undeveloped adjacent properties agree, as evidenced by an appropriately recorded document, to limit the location of any new well on their property to at least 100 feet from the proposed treatment works and primary and reserve disposal works; and b. The arrangements and documentation are approved by the Department.
3. All other property lines	5	None
4. Public or private water supply well	100	None
5. Perennial or intermittent stream	100	Measured horizontally from the high water line of the peak streamflow from a 10-year, 24-hour rainfall event.
6. Lake, reservoir, or canal	100	Measured horizontally from the high water line from a 10-year, 24-hour rainfall event at the lake or reservoir.
7. Drinking water intake from a surface water source (includes an open water body, downslope spring or a well tapping streamside saturated alluvium)	200	Measured horizontally from the on-site wastewater treatment facility to the structure or mechanism for withdrawing raw water such as a pipe inlet, grate, pump, intake or diversion box, spring box, well, or similar structure.
8. Wash or drainage easement with a drainage area of more than 20 acres	50	Measured horizontally from the nearest edge of the defined natural channel bank or drainage easement boundary. A person may reduce the setback to 25 feet if natural or constructed erosion protection is approved by the appropriate flood plain administrator.
9. Water main or branch water line	10	None
10. Domestic service water line	5	Measured horizontally between the water line and the wastewater pipe, except that the following are allowed: a. A water line may cross above a wastewater pipe if the crossing angle is between 45 and 90 degrees and the vertical separation distance is 1 foot or more. b. A water line may parallel a wastewater pipe with a horizontal separation distance of 1 foot to 5 feet if the bottom of the water line is 1 foot or more above the top of the waste- water pipe and is in a separate trench or on a bench in the same trench.

11. Downslopes or cut banks greater than 15 percent, culverts, and ditches from:		
a. Treatment works components	10	Measured horizontally from the bottom of the treatment works component to the closest point of daylighting on the surface.
b. Trench, bed, chamber technology, or gravel less trench with:		Measured horizontally from the bottom of the lowest point of the disposal pipe or drip lines, as applicable, to the closest point of daylighting on the surface.
i. No limiting subsurface condition specified in R18-9-A310(D)(2),	20	
ii. A limiting subsurface condition.	50	
c. Subsurface drip lines.	3	Measured horizontally from the bottom of the lowest point of the disposal pipe or drip lines, as applicable, to the closest point of daylighting on the surface.
12. Driveway	5	Measured horizontally to the nearest edge of an onsite wastewater treatment facility excavation. A person may place a properly reinforced and protected wastewater treatment facility, except for disposal works, at any location relative to a driveway if access openings, risers, and covers carry the design load and are protected from inflow.
13. Swimming pool excavation	5	Except if soil loading or stability concerns indicate the need for a greater separation distance.
14. Easement (except drainage easement)	5	None
15. Earth fissures	100	None
* A "common drinking water system" means a system that currently serves or is under legal obligation to serve the property and may include a drinking water utility, a well-sharing agreement, or other viable water supply agreement.		

APPENDIX D

CHECKLIST:

INSPECTION OF YOUR ON-SITE WASTEWATER SYSTEM

- Discharge Authorization received **(this document, which is a request for inspection is submitted to the Development Services Department at least 24 hours prior to when the inspection is needed).**
- Water Tightness Certification received **(This test is conducted by the person installing the system prior to the inspection request).**
- System has been left uncovered for inspection
- Property Boundaries are visibly marked – four corners
- All required setbacks met, (buildings, easements, drainage easements, washes, driveways, property lines, slopes, etc.)
- Design and construction verified
- Installed tank size as per approved plan
- GPS coordinates taken at the inlet of the tank
- Inlet and Outlet T is stable and level
- Risers, if required, are in place
- Seal around inlet & outlet of septic tank checked to insure water tightness
- Effluent filter in place
- Tank is level
- Five feet of solid pipe between tank and leach field
- Leach field pipe level
- The ends of the leach lines capped and exposed for inspection
- Size of gravel is uniform. ¾" -2 ½" in diameter and clean
- Laterals connecting multiple lines are solid pipe
- If multiple lines present, even distribution is achieved & distribution box present and level
- Sufficient room available for reserve area
- Lot is vacant

What color tag to look for and what you tag indicates:

Yellow tag issued: system can be covered - Final Approval paperwork to follow.

Red tag issued: requirements are not met, contact inspector – Corrections must be made before backfilling.

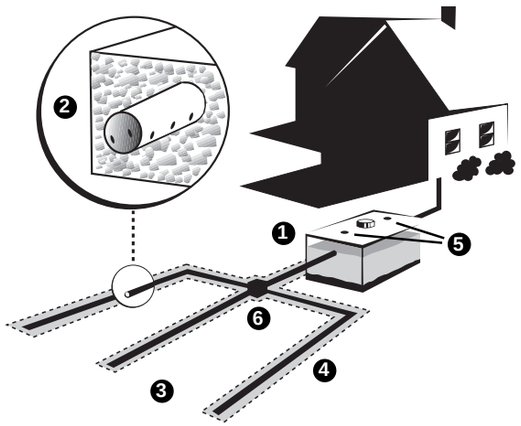
Blue tag issued: all required documents have not been received - If alternative system, Engineer's Certificate of Completion is required.

So . . . now you own a septic system

More than 25 million homes, encompassing almost 25 percent of the U.S. population, dispose of domestic wastewater through onsite (unsewered) systems. According to the American Housing Survey for the United States, in 1993 1.5 (million) out of every 4 (million) new owner-occupied home starts relied upon a form of onsite sewage disposal.

One of the major differences between owning an unsewered versus a sewered home is that unsewered wastewater treatment and disposal systems must be maintained by the homeowner. Treatment and disposal of wastewater should be one of the primary concerns of any homeowner in an unsewered area.

The most common way to treat and dispose of wastewater in rural homes is through the use of an onsite disposal system. The majority of onsite disposal systems in the United States are septic systems.



1. septic tank
2. 4" perforated pipe
3. absorption field
4. crushed rock or gravel lined trench
5. inspection ports
6. distribution box

Typical Septic System Fig. 1

HOW IT WORKS

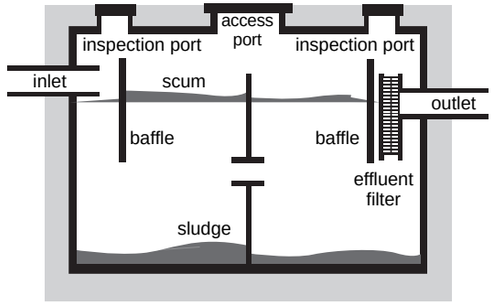
APPENDIX E

A typical septic system contains two major components: a septic tank and the absorption field (see Figure 1). Often, a distribution box is included as part of the system to separate the septic tank effluent evenly into a network of distribution lines that make up the absorption field. The septic tank is usually made of concrete, fiberglass, or plastic, is typically buried and should be watertight. All septic tanks have baffles (or tees) at the inlet and outlet to insure proper flow patterns (see Figure 2). Most septic tanks are single compartment; however, a number of states require two-compartment tanks or two single compartment tanks in series.

While typically designed to hold a minimum of 750–1000 gallons of sewage, the size of the tank may vary depending upon the number of bedrooms in the home and state and local regulatory requirements. The primary purpose of the septic tank is to separate the solids from the liquids and to promote partial breakdown of contaminants by microorganisms naturally present in the wastewater. The solids, known as sludge, collect on the bottom of the tank, while the scum floats on the top of the liquid. The sludge and scum remain in the tank and should be pumped out periodically (see Figure 2).

Solids that are allowed to pass from the septic tank may clog the absorption field. Keeping solids out of the absorption field not only prevents clogging, but also reduces potentially expensive repair or replacement costs and helps ensure the ability of the soil to effectively treat the septic tank effluent. Therefore, an additional safeguard in keeping solids out of the absorption field is the use of effluent filters on the outlet of the septic tank (see Figure 2).

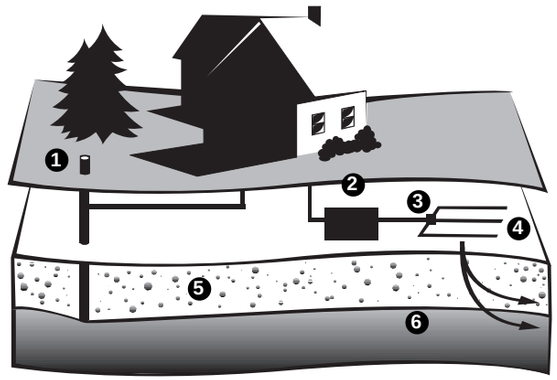
The wastewater (effluent) coming out of the septic tank may contain many potentially disease-causing microorganisms and pollutants (i.e., nitrates, phosphates, chlorides). The effluent is passed on to the absorption field through a connecting pipe or distribution box. The absorption field is also known as the soil drainfield, the disposal field, or the leachfield. The absorption field contains a series of underground perforated pipes, as indicated in Figure 1, that are



Cross-section of a two-compartment septic tank Fig. 2

sometimes connected in a closed loop system, as illustrated on the front cover, or some other proprietary distribution system

The effluent is distributed through the perforated pipes, exits through the holes in the pipes, and trickles through the rock or gravel where it is stored until absorbed by the soil. The absorption field, which is located in the unsaturated zone of the soil, treats the wastewater through physical, chemical, and biological processes. The soil also acts as a natural buffer to filter out many of the harmful bacteria, viruses, and excessive nutrients, effectively treating the wastewater as it passes through the unsaturated zone before it reaches the groundwater (see Figure 3).



1. drinking water well
2. septic tank
3. distribution box
4. absorption field
5. soil absorption (unsaturated zone)
6. groundwater (saturated zone)

Wastewater treatment and disposal in soil Fig. 3

Wastewater contains nutrients, such as nitrates and phosphates, that in excessive amounts may pollute nearby waterways and groundwater supplies. Excessive nutrients in drinking water supplies can be harmful to human health and can degrade lakes and streams by enhancing weed growth and algal blooms. However, the soil can retain many of these nutrients, which are eventually taken up by nearby vegetation.

What to Put In, What to Keep Out

- Direct all wastewater from your home into the septic tank. This includes all sink, bath, shower, toilet, washing machine and dishwasher wastewaters. Any of these waters can contain disease-causing microorganisms or environmental pollutants.

- Keep roof drains, basement sump pump drains, and other rainwater or surface water drainage systems away from the absorption field. Flooding of the absorption field with excessive water will keep the soil from naturally cleansing the wastewater, which can lead to groundwater and/or nearby surface water pollution.

- Conserve water to avoid overloading the septic system. Be sure to repair any leaky faucets or toilets. Use low-flow fixtures.

- Do not use caustic drain openers for a clogged drain. Instead, use boiling water or a drain snake to open clogs.

- Do not use septic tank additives, commercial septic tank cleansers, yeast, sugar, etc. These products are not necessary and some may be harmful to your system.

- Use commercial bathroom cleaners and laundry detergents in moderation. Many people prefer to clean their toilets, sinks, showers, and tubs with a mild detergent or baking soda.

continued . . .

APPENDIX E

- Check with your local regulatory agency if you have a garbage disposal unit to make sure that your septic system can accommodate this additional waste.

- Check with your local regulatory agency before allowing water softener backwash to enter your septic tank.

- Your septic system is not a trash can. Do not put grease, disposable diapers, sanitary napkins, tampons, condoms, paper towels, plastics, cat litter, latex paint, pesticides, or other hazardous chemicals into your system.

- Keep records of repairs, pumpings, inspections, permits issued, and other system maintenance activities.

- Learn the location of your septic system. Keep a sketch of it handy with your maintenance record for service visits.

- Have your septic system inspected every 1–2 years and pumped periodically (usually every 3–5 years) by a licensed inspector/ contractor.

- Plant only grass over and near your septic system. Roots from nearby trees or shrubs may clog and damage the absorption field.

- Do not drive or park over any part of your septic system. This can compact the soil and crush your system.

In summary, understanding how your septic system works and adhering to these few simple rules will ensure that your septic system is a safe and economical method for treating and disposing of your wastewater onsite.

For more information regarding the care of your septic system, contact your local health department.

More information about septic systems is available from the National Small Flows Clearinghouse (NSFC) through other brochures in this series:

Groundwater protection and your septic system, Item #**WWBRPE21**

The care and feeding of your septic system, Item #**WWBRPE18**

For more information about this or other NSFC products, please contact us by writing to:
National Small Flows Clearinghouse
West Virginia University
P.O. Box 6064
Morgantown, WV 26506-6064
or phone:
(800) 624-8301, (304) 293-4191
or fax: (304) 293-3161

www.nsfc.wvu.edu

Helping America's small communities meet their wastewater needs

NATIONAL SMALL FLOWS CLEARINGHOUSE

NATIONAL SMALL FLOWS CLEARINGHOUSE

Helping America's small communities meet their wastewater needs

So . . . now you own a septic system

One in a series of three brochures designed to aid you in caring for your septic system.

MOHAVE COUNTY
DEVELOPMENT SERVICES

Scott Holtry
Department Director

REQUEST FOR DISCHARGE AUTHORIZATION
FOR AN ONSITE WASTEWATER TREATMENT FACILITY TYPE
4.02 GENERAL PERMIT

Sam Elters, P.E.
County Manager

1. Owner's Information

Name _____ Septic Permit #:_____
Site Address _____ Parcel #: _____

Mailing Address _____ City _____ Zip _____

2. Applicant

Name _____ Phone_____
Title _____ Firm Name_____
Mailing Address _____ City _____ Zip _____

3. Contact Person/Agent (if different from applicant)

Name _____ Phone_____

Title _____ Firm Name_____ _____
Mailing Address _____ City _____ Zip _____

4. Conformance with Information Submitted in Notice of Intent to Discharge (Check One)

☐ Original site plan submitted with Notice of Intent to Discharge accurately reflects final location and configuration of components.
☐ A revised site plan is attached showing final location and configuration of components.

NOTE: A **MINOR** change made during construction in location, configuration, dimension, depth, material, or installation procedure is allowed under A.A.C. R18-9-A30.D.1.e only if the change continues to conform with the specific standard in rule used as the basis of design. Any such changes must be recorded on the site plan. Any **MAJOR** changes will result in an additional plan review and fee.

Final inspection will not be performed until the above is submitted (if revised plan is needed)*

5. Septic Tank Water Tightness

Tank manufacturer _____ | Model Name/Number _____

Certificate of Conformance with Septic Tank Manufacturing Requirements supplied per R18-9-A314? ☐ Yes ☐ No

Septic Tank Capacity _____ | Watertightness test passed [R18-9-A309.C.1] &Attachment 1 completed? ☐ Yes ☐ No

6. Map to Property

A) Map to property is attached ☐ Yes ☐ No

7. Notices & Certification (To be completed by the applicant in item 2 above)

By signing below, the applicant understands the following:

1. Inspection by the DSD per R18-9-A301.D.2.a is required and is now requested for issuance of a Discharge Authorization.
2. Should the facility not comply with requirements specified in the Aquifer Protection Permits, additional inspection and/or plan review fees may be requested prior to issuance of the Discharge Authorization.
3. The applicant and/or an authorized on-site representative of the regulated person may accompany the inspector on the premises, except during confidential interviews
4. The applicant has a right to any copies of original documents, a split of any samples taken during the inspection if the split of any samples will not prohibit an analysis from being conducted or render an analysis inconclusive and copies of any analysis performed on samples taken during the inspection.
5. Any statements made during the inspection may be included in the inspection report
6. The applicant may contact the DSD at (928) 757-0903 should any questions arise regarding the inspection
7. The applicant is entitled to due process rights relating to an appeal of a final decision of the DSD based on the results of the inspection, and may contact the DSD at the above number for more information regarding the appeal process.

I, _____, certify that I have read the above notices and that the information in this Request for Discharge Authorization and all attachments are, to the best of my knowledge, true, accurate and complete. I also certify that the wastewater treatment facility conforms to the design approved under the Construction Authorization for this facility in accordance with the Type 4 General Aquifer Protection Permit (R18-9-E302 to R18-9-E323), and applicable requirements of Arizona Revised Statutes Title 49, Chapter 2, and Arizona Administrative Code Title 18, Chapter 9 regarding aquifer protection permits. I am aware there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations.

_____ _____

Signature ☐ Applicant ☐ Applicant's Representative Date

DEPARTMENT USE ONLY	**DATE STAMP**
Constructed within 2 years ☐ Yes ☐ No	

ATTACHMENT 1 - CERTIFICATE OF WATER TIGHTNESS OF AN INSTALLED SEPTIC TANK DETERMINED BY FIELD WATER TIGHTNESS TESTING UNDER ARIZONA ADMINISTRATIVE CODE R18-9-A309(C)(1)

1 Project Information

A) Applicant Name _____

B) Project Name _____

C) Septic Permit # _____ Parcel #: _____

2 Water tightness Tester

A) Name _____

B) Company _____

C) Address _____

3 Septic Tank Information

A) Manufacturer _____

B) Brand/Model _____

C) Design Liquid Capacity

4 Water tightness Test Information

Description	Date	Time
1. Start presoak with clean water		
2. Start water tightness test		
3. End water tightness test		

☐ Passed water tightness test without repair (no water drop over 1-hour period per A.A.C. R18-9-A314(5)(d)(ii))

☐ Passed water tightness test following repair

5 Certification

I have tested the installed septic tank for the above-named project in accordance with the water tightness testing requirements specified in Arizona Administrative Code R18-9-A314(5)(d) and certify that the septic tank passed the water tightness test.

_____ _____

Signature of Tester Date