



## ONSITE WASTEWATER TREATMENT SYSTEM LIQUID EFFLUENT COLLECTION SYSTEM SUPPLEMENTAL PERMIT APPLICATION

### GENERAL INFORMATION - LIQUID EFFLUENT COLLECTION SYSTEM

The **Liquid Effluent Collection System General Permit (LECS GP)** ([link](#)) provides authorization to construct and operate a liquid effluent collection system for onsite wastewater treatment facilities under the Aquifer Protection Program, This General Permit is in compliance with A.R.S. § 49-245 and the Arizona Administrative Code (A.A.C.) Title 18, Chapter 9.

#### APPLICATION PROCESS

1. Submit this **Liquid Effluent Collection System (LECS)** supplemental application for the Septic Tank Effluent Gravity (STEG) and Septic Tank Effluent Pressure (STEP) conveyance system in conjunction with a Notice of Intent to Discharge On-site Wastewater Treatment Facility application. Submit the application forms electronically to [GWP\\_ERU@azdeq.gov](mailto:GWP_ERU@azdeq.gov).
2. ADEQ recommends a pre-application meeting prior to submitting your application. You can request a pre-application meeting by emailing the General Permits Unit at [GWP\\_ERU@azdeq.gov](mailto:GWP_ERU@azdeq.gov) prior to submitting the application. To facilitate scheduling the meeting in a timely manner, include "Pre-Application Meeting" in the subject line. Please bring all final application components to the meeting.
3. Ensure that email addresses are provided in the NOI application, as all permits are sent to applicants via email.
4. Review fees for an LECS and associated system components covered under the Type 4.02-4.23 General Permit are listed on website: [azdeq.gov/SepticSewerFees](http://azdeq.gov/SepticSewerFees)
5. Satisfy any deficiency requests arising from the Department's pre-construction review of the submitted information.
6. Receive a "Construction Authorization" from the Department authorizing construction of the LECS. The construction of the project cannot begin until the Construction Authorization has been issued.
7. Construct the LECS within two years from the date of the signed Construction Authorization. During this time ADEQ has the ability to require a pre-burial inspection. If an inspection is required the applicant will be notified on the Construction Authorization.
8. Submit the Request for Discharge Authorization and required information to the Department to initiate the post-construction review and inspection. **A new NOI and applicable fee shall be required if the Request for Discharge Authorization (RDA) is not received within 2 years from the date of the signed Construction Authorization.**
9. Satisfy any deficiency request arising from the Department's post-construction review of the facility.
10. Receive a "Discharge Authorization" from the Department, which authorizes operation of the LECS in accordance with the terms of the Liquid Effluent Collection System General Permit and applicable requirements of statute and rule.

#### LICENSING TIME FRAMES

This Liquid Effluent Collection System General Permit is subject to the licensing time-frame requirements in 18 A.A.C. 1, Article 5 for the timeframes established below, as authorized under A.R.S. § 41-1073.  
A Liquid Effluent Collection System General Permit and all accompanying Type 4.02 - 4.23 general permits shall be subject to the "Complex Combined" licensing time-frames the table below.

License Type	Administrative Completeness Review (Business Days)	Substantive Review (Business Days)	Overall Time Frame (Business Days)
Liquid Effluent Collection System General Permit	42	94	136

### INSTRUCTIONS FOR THE COMPLETION OF THE LECS APPLICATION

#### NAMING THE PROJECT (SECTION 1)

Select the type of review the applicant is requesting:

1. Standard Review – Standard fee, and project is reviewed in order it is received by the Department.
2. Priority Review – Double the standard fee, and project is moved to the front of the queue for review by the Department.
3. Pre-application Review – The project will be reviewed for conformance to administrative requirements, and applicant can meet with the Department to discuss specific questions related to the proposed project design and submission.

Name the LECS according to one of the following guidelines. If the project:

1. Serves a specific subdivision, assign the same name "XXX Subdivision;"
2. Serves a specific facility, use "XXX RV Park" or "...XXX Campground" or "...XXX Shopping Center;"

## APPLICANT INFORMATION (SECTION 2)

The Applicant is the person seeking the Construction Authorization and is the responsible party for the facility. The Applicant is the person to whom the permit will be issued. In addition, the Applicant must:

1. Meet the definition of a “person” in accordance with R18-9-101(29) and A.R.S. 49-201(26);
2. Be the owner and/or the operator of the facility or the property owner where the system is to be installed.
  - a. The facility owner is a person who has legal ownership over the LECS and is responsible for the operation of a LECS. An owner may include a municipality, sanitary improvement district, or private utility.
  - b. The facility operator is a person that controls the functioning of a LECS designed as a septic tank effluent gravity system or a septic tank effluent pump system.
3. Corporations, Limited Liability Companies and Partnerships must be registered with the Arizona Corporation Commission;
4. Sign the application (Section 4) certifying that the applicant agrees to comply with the requirements of the rule (A.A.C.) and the terms of the general permit.

## CONTACT PERSON/AGENT (SECTION 3)

The Contact Person/Agent is the entity who acts on the behalf of the applicant to resolve permit related issues and receives correspondence during the application process. The Applicant is responsible to execute the necessary legal arrangements for the Contact Person/Agent to act on the Applicant’s behalf.

## CERTIFICATION STATEMENT (SECTION 4)

The certification statement is to be completed by the Applicant. **The Contact Person/Agent is not to sign the certification statement unless other legal means are included in the application package.**

## SITE INFORMATION (SECTION 5)

The site information shall be supplied as indicated in the application. If the proposed project is not within a city, please indicate the nearest city. **The project location description shall provide enough information to reach the site given the instructions.** You may reference a publication and page number that gives this description (such as Sewer Design Report Page 2 Section 1 Project Description).

## INSTRUCTIONS FOR THE COMPLETION OF THE PROJECT DESIGN INFORMATION SECTION

This part of the application is to provide the Applicant and their engineer a quality check to ensure that the required data, design, and analysis is performed prior to submittal to ADEQ. The engineer or Applicant should complete all relevant information and certification statement.

## PROJECT DESIGN SUMMARY (SECTION 6)

The Applicant shall provide an overall design summary for this project.

## SITE PLAN (SECTION 7)

Please indicate if the items are included in the application package.

## STANDARD DETAILS (SECTION 8)

Please indicate which standard details are used on the project.

## SYSTEM COMPONENT DETAILS (SECTION 9)

Please select each of the components to be installed for the proposed project (STEG System, Manholes, STEP System, and/or Pump Tanks). Complete the information requested for each component. Refer to the Liquid Effluent Collection System General Permit for the design and operational requirements. Supplying the requested information on this application does not alleviate the design engineer of including the information in the design report that is sealed by an Arizona-registered Professional Engineer.

## CONSTRUCTION QUALITY DRAWINGS (SECTION 10)

This section provides a brief check of what, at a minimum, shall be included in construction drawings submitted to ADEQ for review.

## OPERATION AND MAINTENANCE PLAN (SECTION 12)

Please indicate the status of the O&M plan for the proposed project.

## DESIGN DOCUMENTS (SECTION 13)

This section provides a quality check to ensure that all design documents are signed and sealed by an Arizona Registered Professional Engineer as required in R18-9-E301(C)(7).



**ONSITE WASTEWATER TREATMENT SYSTEM  
LIQUID EFFLUENT COLLECTION SYSTEM  
SUPPLEMENTAL PERMIT APPLICATION**

**GENERAL INFORMATION**

**1 Project Name**     Standard review     Priority review     Pre-application review

Project Name \_\_\_\_\_

**2 Applicant** **[LECS GP Part B, Section 1]**

(Check One)  Owner     Operator

Name \_\_\_\_\_ Phone \_\_\_\_\_

Title \_\_\_\_\_ Firm Name \_\_\_\_\_

Mailing Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Email Address(es)\* \_\_\_\_\_

**3 Contact Person/Agent**    **(Please fill out if different than the Applicant)**    **[LECS GP Part B, Section 1]**

(Check all that apply)  Engineer     Consultant     Contractor     Attorney     Other

Name \_\_\_\_\_ Phone \_\_\_\_\_

Title \_\_\_\_\_ BTR Number \_\_\_\_\_

Firm Name \_\_\_\_\_

Mailing Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Email Address(es)\* \_\_\_\_\_

**4 Certification Statement**    **(To be completed/signed by the Applicant in Section 2)**    **[LECS GP Part B, Section 1]**

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 liquid effluent collection system described in this form is or will be designed, constructed, and operated in accordance with terms and conditions of the Liquid Effluent Collection System General Permit 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

Pursuant to A.R.S. § 41-1030:

- (1) ADEQ shall not base a licensing decision, in whole or in part, on a requirement or condition not *specifically* authorized by statute or rule. General authority in a statute does not authorize a requirement or condition *unless* a rule is made pursuant to it that specifically authorizes the requirement or condition.
- (2) Prohibited licensing decisions may be challenged in a private civil action. Relief may be awarded to the prevailing party against ADEQ, including reasonable attorney fees, damages, and all fees associated with the license application.
- (3) ADEQ employees may not intentionally or knowingly violate the requirement for specific licensing authority. Violation is cause for disciplinary action or dismissal, pursuant to ADEQ's adopted personnel policy. ADEQ employees are still afforded the immunity in A.R.S. §§ 12-821.01 and 12-820.02.

\*Email addresses are required as all permits will be sent to the applicant via e-mail.

**5 Site Information** **[LECS GP Part B, Section 1]**

County \_\_\_\_\_ City\* \_\_\_\_\_  
 Location of downstream end of system proposed herein  
 Township \_\_\_\_\_ Range \_\_\_\_\_ Section \_\_\_\_\_  
 Latitude \_\_\_\_\_ ° \_\_\_\_\_ ' \_\_\_\_\_ " N Longitude \_\_\_\_\_ ° \_\_\_\_\_ ' \_\_\_\_\_ " W  
 Project Location Description: \_\_\_\_\_

(Exact Location of Project)

**PROJECT DESIGN INFORMATION (TO BE COMPLETED BY THE ENGINEER)**

**6 Project Design Summary**

Population to be served by proposed system \_\_\_\_\_  
 Please indicate the number of connections to ultimately be served by this project at upstream build out:  
 Residential \_\_\_\_\_  Commercial \_\_\_\_\_  Industrial \_\_\_\_\_  
 Table 1, Unit Design at downstream point \_\_\_\_\_ Gallons per day per LECS GP Part B(2)(A)(1)  
 Peak Flow of system at downstream point \_\_\_\_\_ Gallons per day per LECS GP Part B(2)(A)(1)

**7 Site Plan and Fees (Check Box if Complete)** **[LECS GP Part B, Section 1]**

- I have provided a general site plan showing the boundaries and key aspects of the project.
- I have provided construction quality drawings (see Section 10).
- I have provided a list of all parcels that are connecting to the LECS.
- I have provided the appropriate fee (see instructions).
- I have provided the appropriate application for the onsite wastewater treatment system servicing this system.
- I have included an alternative design, installation, and operational feature request on the ADEQ form.

**8 Standard Details used for this project (Check One)** **[LECS GP Part B]**

- Maricopa Association of Governments (MAG)  Pima County Regional Wastewater Reclamation Department (PCRWRD)

**9 Selected Components Included (Check All Components that Are being Applied for)**

**STEG System** **[LECS GP Part B, Section 2(B)]**

A) Summarize the gravity segments and indicate material summary page in design plans.

Diameter (in)	Material of Construction	Length (feet)	Standard
Total length of gravity lines:			feet

B) Select all testing requirements included in the specifications/standards for this project:

<input type="checkbox"/> Uniform Slope – Lamp Lighting	<input type="checkbox"/> ASTM C828	<input type="checkbox"/>
<input type="checkbox"/> Uniform Slope – Camera	<input type="checkbox"/> ASTM C1091	<input type="checkbox"/>
<input type="checkbox"/> Deflection Test	<input type="checkbox"/> ASTM C969	<input type="checkbox"/>
<input type="checkbox"/> ASTM F1417	<input type="checkbox"/> ASTM D2321	<input type="checkbox"/>
<input type="checkbox"/> ASTM C924	<input type="checkbox"/> Trenching/Bedding Std. Detail	<input type="checkbox"/>

C) Indicate the minimum (when flowing full) and maximum velocity within the proposed project:

- Minimum \_\_\_\_\_ (feet per second)  Maximum \_\_\_\_\_ (feet per second)  
 Ductile iron pipe or similar erosion resistant material is used for segments with velocities greater than 10 feet per second.

**Manholes** [LECS GP Part B, Section 2(B)(9)]

- A) Indicate the number of manholes proposed for this project: \_\_\_\_\_
- B) Indicate which standard detail the proposed manhole design is consistent with (select all that apply):
- MAG 420-1     MAG 420-2     MAG 422     WWM 201     WWM 202     WWM 203
- WWM 207     WWM 208     WWM 209     WWM 210     WWM 211
- C) Select which integrity testing is included in the specifications for the proposed project:

<input type="checkbox"/> Water loss not exceeding 0.0034 of total manhole volume per hour.	<input type="checkbox"/> ASTM C1244 – Negative air pressure testing.	<input type="checkbox"/> NACE RP0274 0 High-Voltage Electrical Inspection
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**Clean Outs** [LECS GP Part B, Section 2(B)(8)]

- A) Indicate the number of cleanouts proposed for this project: \_\_\_\_\_
- B) Indicate which standard detail the proposed clean out design is consistent with (select all that apply):
- MAG 441                       PCRWRD 404

**STEP System** [LECS GP Part B, Section 2(C)]

A) Summarize the pressurized segments and indicate material summary page in design plans.

Diameter (in)	Material of Construction	Length (feet)	Standard
Total length of pressurized segments:			feet

- B) Please indicate the integrity testing requirements that are included in the specifications:
- Hold Time \_\_\_\_\_ (hours)                       Pressure \_\_\_\_\_ (psi)
- C) Please indicate the use of air relief valves for the proposed project:
- # of Air Relief Valves \_\_\_\_\_ are to be installed as indicated on the construction drawings
- Or,  the system high point is at the point of discharge.

**Pump Tanks** [LECS GP Part B, Section 2(C)(2)]

- A) Indicate how many pump tanks are included for this project: \_\_\_\_\_
- B) Indicate the pump details for all the proposed pump tanks(s): \_\_\_\_\_
- Additional pump tank table entries are included with this application.

Pump Tank #	Site Plan Page Reference	Tank Rated Capacity (gal)	Pumps (qt)	Design Flow (gpm)	Peak Flow* (gpm)	Horsepower	Pump Manufacturer	Pump Model	Pump Type

\* Design flow plus peaking factor for dry and wet weather flow (see R18-9-E301(D)(1)(b))

- The pump curves and system curves are included in the design report.

**Alternative Design, Installation, Operational Features** [LECS GP Part B, Section 3]

- I have included an alternative design, installation, and operational feature request(s) on the **LECS GP Form B3**. I understand this request is separate from an Alternative Request (A312G) Type 4 General Permit Applications for the Onsite Treatment Portion of the system.
- Quantity of requests submitted for this project: \_\_\_\_\_

<b>10</b>	<b>Construction Quality Drawings</b>	<b>(Check Boxes if Complete)</b>	<b>[LECS GP Part B, Section 1]</b>
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- A summary of materials table is included in the drawings.
- The plans and profiles for all effluent collection system lines, manholes, and pump tanks, with sufficient detail to allow the Department verification of design and performance characteristics;
- Relevant cross sections showing construction details and elevations of key components of the effluent collection system to allow Department verification of design and performance characteristics, including the slope of each gravity sewer segment stated as a percentage;
- Drainage features and controls, and erosion protection as applicable, for the components of the project; and
- Horizontal and vertical location of utilities within the area affected by the sewer line construction.

<b>12</b>	<b>Operation and Maintenance Manual</b>		<b>[LECS GP Part D, Section 2]</b>
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- I have attached an operation and maintenance (O & M) manual. The manual shall contain the 24-hour emergency number of the owner and operator of the LECS.

<b>13</b>	<b>Design Documents</b>	<b>(Check Box if Complete)</b>	<b>[LECS GP Part B, Section 1]</b>
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- I have included design documents, including plans, specifications, drawings, reports, and calculations that are signed, dated, and sealed by an Arizona-registered professional engineer. The designer shall use good engineering judgment following engineering standards of practice, and rely on appropriate engineering methods, calculations, and guidance.