



**APPLICATION FOR PERMIT TO CONSTRUCT/ALTER/REPAIR AN INDIVIDUAL
SUBSURFACE SEWAGE DISPOSAL SYSTEM**
Form 1—General Information

1. Type of Permit Needed (Check and Fill-in applicable categories):

- a. New Construction
- b. Alteration/ No Expansion or Change in Use
- c. Alteration/Expansion or Change in Use
- d. Alteration/Malfunctioning System
- e. Repair (in-kind replacement)/ Malfunctioning system
- f. Repair (in-kind replacement)/ System is not malfunctioning
- g. Deviation from Standards
- h. New System Install (existing structure)

2. Location of Project:

Municipality _____ Block No. _____ Lot No. _____
Street Address _____ Zip _____

3. Name of Applicant (print): _____

4. Applicant's Present Address: _____

5. Applicant's Phone Number: _____

6. Type of Facility:

- Residential
- Commercial/Institutional
- Specify Type of Establishment: _____

7. Type of Wastes to be Discharged:

- Sanitary Sewage
- Industrial Wastes
- Other-Specify Type: _____

8. If (d) or (e) in #1 above are checked, indicate the type of malfunction and its cause
(check all that apply):

- Contamination of nearby well/surface water bodies by sanitary sewage/effluent
- Ponding/breakout of sanitary sewage/effluent onto the surface of the ground
- Seepage of sanitary sewage/effluent into portions of building below ground
- Back-up of sanitary sewage into the building served, which is not caused by a physical blockage of the internal plumbing
- Any manner of leakage observed from components that are not designed to emit sanitary sewage/effluent.
- Direct discharges to ground water (no zone of treatment)

Describe the cause of the malfunction: _____

9. Please expand on Question #1, above, by checking if any of the following apply:
- A privy, outhouse, latrine or pit toilet is present, a system must be installed
 - A system must be upgraded as part of a real property transfer
 - A cesspool has been identified during a real property transfer and a conforming system must be installed
 - A malfunctioning cesspool has been identified and a conforming system must be installed.

10. Other Approvals/Certification/Waivers/Exemptions (Attach to Application):
- Pinelands Commission
 - Highlands Water Protection and Planning Act
 - U.S. Army Corps of Engineers
 - NJDEP-Bureau of Flood Plain Management
 - Septic System Designer (NJ Engineer) Certification
 - Other-Specify: _____

11. I hereby certify that the information furnished on Form 1 of this application is true. I am aware that false swearing is a crime in this State and subject to prosecution.

Signature of Applicant _____ Date _____

FOR AGENCY USE ONLY

- Application Denied—Reason for Denial/Citation of Rules Violated:

- Application Approved
- Application Approved Subject to Approval by NJDEP

Date of Action _____ Signature of Authorized Agent _____

Name and Title _____



**APPLICATION FOR PERMIT TO CONSTRUCT/ALTER/REPAIR AN INDIVIDUAL
 SUBSURFACE SEWAGE DISPOSAL SYSTEM**

Form 2a-General Site Evaluation Data for Municipality _____ Block ____ Lot ____

1. Name of Site Evaluator (print): _____
2. Business Address of Site Evaluator: _____
3. Business Phone Number of Site Evaluator: _____
4. Special Site Limitations Identified (Check appropriate Categories):

<input type="checkbox"/> Flood Plains	<input type="checkbox"/> Bedrock Outcrops	<input type="checkbox"/> Wetlands
<input type="checkbox"/> Excessively Stony	<input type="checkbox"/> Disturbed Ground	<input type="checkbox"/> Sink Holes
<input type="checkbox"/> Sand Dunes	<input type="checkbox"/> Steep Slopes	
<input type="checkbox"/> Other—Specify _____		
5. Soil Logs—Enter on Form 2b—Use one sheet for each soil log.
6. Considerations Relating to Disturbed Ground:
 - a) Type of Disturbance (Check appropriate categories):

<input type="checkbox"/> Filled Area	<input type="checkbox"/> Excavated Area	<input type="checkbox"/> Re-graded Area
<input type="checkbox"/> Subsurface Drains	<input type="checkbox"/> Other—Specify _____	
 - b) Existing Ground Surface

Elevation Relative to Ground Surface _____

Method of Identification _____
 - c) Suitability of Disturbed Ground

<input type="checkbox"/> Unsuitable: Objects Subject to Disintegration or Change in Volume
<input type="checkbox"/> Excessively Coarse
<input type="checkbox"/> Proctor Test performed: % Standard Proctor Density = _____
7. Hydraulic Head Test:
 - a) Hydraulically Restrictive Horizon: Depth Top to Bottom _____
 - b) Piezometer A: Depth to Bottom ____ Depth of Water Level (24 hrs) _____
 - c) Piezometer B: Depth to Bottom ____ Depth of Water Level (24 hrs) _____
 - d) Witnessed by _____ Signature _____ Date _____
8. Attachments (Check items included):

<input type="checkbox"/> Site Plan
<input type="checkbox"/> Key Map: Location of Site on U.S.G.S. Quadrangle or Other Accurate Map
<input type="checkbox"/> Key Map: Location of Site on U.S.D.A. Soil Survey Map
<input type="checkbox"/> Other-Specify _____

9. I hereby certify that the information furnished on Form 2a of this application (and the attachments thereto) is true and accurate. I am aware that falsification of data is a violation of the Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and is subject to penalties as prescribed in N.J.A.C. 7:14-8.

Signature of Soil Evaluator _____ Date _____

Signature of Professional Engineer _____ License # _____



**APPLICATION FOR PERMIT TO CONSTRUCT/ALTER/REPAIR AN INDIVIDUAL
SUBSURFACESEWAGE DISPOSAL SYSTEM**

Form 2b-Soil Log and Interpretation for Municipality _____ Block ____ Lot ____

1. Log Number ____ Method (Check One): ____ Profile Pit ____ Boring

2. Soil Log:

Depth (inches) Top-Bottom

Munsel Color, Name and Symbol; Estimated Textural Class; Estimated Volume

% Coarse Fragment (if present); Structure; Moist or Dry Consistence;

Mottling-Abundance, Size and Contrast (if present)

3. Ground Water Observations:

__ Seepage-Indicate Depth _____

__ Pit/Boring Flooded-Depth after ____ Hours: _____

4. Soil Limiting Zones (Check Appropriate Categories):

__ Fractured Rock Substratum-Depth to Top _____

__ Massive Rock Substratum-Depth to Top _____

__ Excessively Coarse Horizon-Depth Top to Bottom _____

__ Excessively Coarse Substratum-Depth to Top _____

__ Hydraulically Restrictive Horizon-Depth Top to Bottom _____

__ Hydraulically Restrictive Substratum-Depth to Top _____

__ Perched Zone of Saturation-Depth Top to Bottom _____

__ Regional Zone of Saturation-Depth to Top _____

5. Soil Suitability Classification:

6. I hereby certify that the information furnished on Form 2b of this application is true and accurate. I am aware that falsification of data is a violation of the Water Pollution Control Act (N.J.S.A. 58:10A-1 etseq.) and is subject to penalties as prescribed in N.J.A.C. 7:14-8.

Signature of Site Evaluator _____ Date _____

Signature of Professional Engineer _____ License # _____



**APPLICATION FOR PERMIT TO CONSTRUCT/ALTER/REPAIR AN INDIVIDUAL
 SUBSURFACE SEWAGE DISPOSAL SYSTEM**

Form 3a: Soil Permeability Data for Municipality _____ Block ____ Lot _____

Assign a number for each test and a letter for each test replicate. Show test data and calculations on Form 3b, 3c, 3d, 3e, 3f or 3g. Use one sheet for each separate test or test replicate.

1. Summary of Data—Enter data for each test replicate on a separate line.

Type of Test	Test (number)	Replicate (letter)	Depth (inches)	Result*

* For tube permeameter, pit-bailing and piezometer tests report results in inches/hour. For soil permeability class rating give soil permeability class number. For percolation test report result in minutes/inch. For basin flooding test report result as positive if basin drains completely within 24 hours after second filing, negative otherwise.

2. Design Permeability/Percolation Rate: Specify Test Number _____

Average of Test Replicates Single Replicate Slowest of Replicates

Type of Limiting Zone Identified	Test Number

4. Attachments (Check items included):

- Form 3b-Tube Permeameter Test Data-Number of Sheets _____
- Form 3c-Soil Permeability Class Rating Test Data-Number of Sheets _____
- Form 3d-Percolation Test Data-Number of Sheets _____
- Form 3e-Pit-Bailing Test Data-Number of Sheets _____
- Form 3f-Piezometer Test Data-Number of Sheets _____
- Form 3g-Basin Flooding Test Data-Number of Sheets _____

5. I hereby certify that the information furnished on Form 3a of this application (and the attachments thereto) is true and accurate. I am aware that falsification of data is a violation of the Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and is subject to penalties as prescribed in N.J.A.C. 7:14-8.

Signature of Soil Evaluator _____ Date _____
 Signature of Professional Engineer _____ License # _____



Cumberland County Department of Health

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APPLICATION FOR PERMIT TO CONSTRUCT/ALTER/REPAIR AN INDIVIDUAL SUBSURFACE SEWAGE DISPOSAL SYSTEM

Form 3b: Tube Permeameter Test Data for Municipality _____ Block ____ Lot ____

1. Test Number ____ Replicate (Letter) ____ Date Collected _____
2. Material Tested: ___ Fill ___ Test in Native Soil-Indicate Depth _____
3. Type of Sample: ___ Undisturbed ___ Disturbed
4. Sample Dimensions: Inside Radius of Sample Tube, R, in cm _____
Length of Sample, L, in inches _____
5. Bulk Density Determination (Disturbed Samples Only):
Sample Weight (Wt. Tube Containing Sample-Wt. of Empty Tube), grams _____
Sample Volume (L x 2.54cm/inch x 3.14R²), cc _____
Bulk Density (Sample Wt/Sample Volume), grams/cc _____
6. Standpipe Used: ___ No ___ Yes Indicate Internal Radius, cm _____
7. Height of Water Level Above Rim of Test Basin, in inches:
At the Beginning of Each Test Interval, H₁ _____
At the End of Each Test Interval, H₂ _____
8. Rate of Water Level Drop (Add additional lines if needed):

Time, Start of Test Interval, T ₁	Time, End of Test, Interval T ₂	Length of Test Interval, T, minutes

9. Calculation of Permeability:

$$K, (\text{in/hr}) = 60 \text{ min/hr} \times r^2/R^2 \times L(\text{in})/T(\text{min}) \times \ln(H_1/H_2)$$

$$= 60 \text{ min/hr} \times ___/___ \times ___/___ \times \ln(___/___) = ______$$

10. Defects in the Sample (Check appropriate items):
___ None ___ Cracks ___ Worm Channels
___ Root Channels ___ Soil/Tube Contact ___ Compaction
___ Large Gravel ___ Large Roots ___ Smearing
___ Dry Soil ___ Other-Specify _____

11. I hereby certify that the information furnished on Form 3b of this application is true and accurate. I am aware that falsification of data is a violation of the Water Pollution Control Act (N.J.S.A. 58:10A-1 etseq.) and is subject to penalties as prescribed in N.J.A.C. 7:14-8.

Signature of Site Evaluator _____ Date _____

Signature of Professional Engineer _____ License # _____



**APPLICATION FOR PERMIT TO CONSTRUCT/ALTER/REPAIR AN INDIVIDUAL
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Form 3c: Soil Permeability Class Rating Data for Municipality _____ Block ___ Lot ___

1. Test Number ____ Replicate (Letter) ____
2. Sample Depth ____ Soil Pit/Boring Number ____ Date Collected _____
3. Coarse Fragment Content:

Total Weight of Sample, W.T., grams _____
 Weight of Material Retained on 2 mm sieve, W.C.F., grams _____
 Wt. % Coarse Fragment (W.C.F./W.T. x 100): _____

4. Oven Dry Weight (24 hrs., 105°C) of 40 Gram Air Dry Sample, grams, Wt _____
5. Hydrometer Calibration, Rc _____
6. Hydrometer calibration temperature (°F) _____

7. Hydrometer Reading-40 seconds, grams, R1 _____ Temperature of Suspension, °F _____
8. Corrected Hydrometer Reading, grams, R1' _____

9. Hydrometer Reading-2 hours, grams, R2 _____ Temperature of Suspension, °F _____
10. Corrected Hydrometer Reading, grams, R2' _____

11. % sand = (Wt. - R1')/Wt. x 100 = (____ - ____)/ ____ x 100 = _____
 12. % clay = R2'/Wt. x 100 = ____/ ____ x 100 = _____

13. Sieve Analysis:
 - a. Oven Dry Wt. (2 hrs., 105°C) Total Sand Fraction (Soil Retained in 0.047 mm sieve), grams _____
 - b. Wt. of Fine Plus Very Fine Sand Fraction (Sand Passing 0.25 mm sieve), grams _____
 - c. % Fine Plus Very Fine Sand (b/a) _____

14. Soil Morphology (Natural Soil Samples Only):

Structure of Soil Horizon Tested _____

Consistence of Soil Horizon Tested: Dry _____ Moist _____

15. Soil Permeability Class Rating (Based upon average textural analysis of this replicate and other replicate samples) _____

16. I hereby certify that the information furnished on Form 3c of this application is true and accurate. I am aware that falsification of data is a violation of the Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq) and is subject to penalties as prescribed in N.J.A.C. 7:14-8.

Signature of Site Evaluator _____ Date _____

Signature of Professional Engineer _____ License # _____



**APPLICATION FOR PERMIT TO CONSTRUCT/ALTER/REPAIR AN INDIVIDUAL
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Form 3d: Percolation Test Data for Municipality _____ Block _____ Lot _____

1. Test Number _____ Replicate (Letter) _____ Date Tested _____
2. Depth: _____
3. Pre-soak: _____
 ___ Sandy Textured Soil Only, Shortened Pre-soak-Indicate Time Required for
 12 Inches of Water to Drain After Second Filling, Minutes _____
 ___ Four Hour Pre-soak Completed-Indicate Result:
 ___ Test Hole Drained Within 16 to 24 Hours After Pre-soak
 ___ Test Hole Did Not Drain Within 24 Hours After Pre-soak
4. Rate of Fall Data:
 - a. Time Interval Selected, Minutes _____
 - b. Record the Drop in Water Level During Each Time Interval to the Nearest
 1/10th inch on the lines below:

Depth of Water, Start of Interval (inches)	Depth of Water, End of Interval (inches)	Drop in Water Level (inches)

5. Percolation Rate:
 - a. Time, minutes, Required for a Six-inch Drop in Water Level _____
 - b. Percolation Rate = $a/6 = \text{_____}/6 = \text{_____} \text{ min/in}$

6. I hereby certify that the information furnished on Form 3d of this application is true and accurate. I am aware that falsification of data is a violation of the Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and is subject to penalties as prescribed in N.J.A.C. 7:14-8.

Signature of Site Evaluator _____ Date _____
 Signature of Professional Engineer _____ License # _____



**APPLICATION FOR PERMIT TO CONSTRUCT/ALTER/REPAIR AN INDIVIDUAL
 SUBSURFACE SEWAGE DISPOSAL SYSTEM**

Form 3e: Piezometer Test Data for Municipality _____ Block _____ Lot _____

1. Test Number _____ Reference Soil Log _____ Date Tested _____
2. Diameter of Soil Auger, in _____ Depth of Test Hole, in _____ Inside Radius of Pipe, R, in _____
3. Depth to Apparent Static Water Level, in _____

4. Measure and Record:

Water Depth, Start of Interval inches, d ₁	Time at Start of Interval	Water Depth, End of Interval inches, d ₂	Time at End of Interval	Length of Interval, min, t

5. Depth to Water Level After 24 Hour Stabilization Period, D_{static} in. _____

6. Value of A-parameter _____

7. Calculation of Permeability:

$$K, \text{ in/hr} = [(3.14R^2)/(A \times t)] \times [\ln(d_1 - D_{\text{stat}}/d_2 - D_{\text{stat}})] \times 60 \text{ min/hr} =$$

$$[(3.14 \underline{\quad})/(\underline{\quad} \times \underline{\quad})] \times [\ln(\underline{\quad} - \underline{\quad}/\underline{\quad} - \underline{\quad})] \times 60 \text{ min/hr} = \underline{\quad}$$

8. I hereby certify that the information furnished on Form 3e of this application is true and accurate. I am aware that falsification of data is a violation of the Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and is subject to penalties as prescribed in N.J.A.C. 7:14-8.

Signature of Site Evaluator _____ Date _____

Signature of Professional Engineer _____ License # _____



APPLICATION FOR PERMIT TO CONSTRUCT/ALTER/REPAIR AN INDIVIDUAL
 SUBSURFACE SEWAGE DISPOSAL SYSTEM

Form 3f: Pit-Bailing Test Data for Municipality _____ Block _____ Lot _____

1. Test Number _____ Reference Soil Log _____ Date Tested _____
2. Using the reference level established, measure and record the following:
 - Depth to Bottom of Pit, ft, D_{pit} _____
 - Depth to Water Level after 2 hr. Stabilization Period, ft, D_{water} _____
 - Depth to Impermeable Stratum, ft, $D_{stratum}$ _____ (if depth is unknown assume it to be 1.5 times the depth of the pit)
 - Height of Water Level Above Impermeable Stratum, ft, H _____
 ($H = D_{stratum} - D_{water}$)
 - Length of Time Interval, T, in minutes _____
3. At the interval chosen, record the following data in the table below:
 - Time of Measurement, t_n , minutes
 - Depth of Water Level Below Reference Level, d_n , inches
 - Water Surface Dimensions, ft: l,w
4. Calculate the following values and enter in the table below:
 - Water Surface Area, ft^2 , A_n
 - Water level Rise h_{rise} (Subtract current value of d_n from previous value)
 - Ave Water Surface Area, ft^2 , A_{av} (Take average of A_n and previous A_n)
 - Ave. Height of Water Level Above Impermeable Stratum, ft, h (Take ave of d_n and previous value of d_n , convert to ft., and subtract from $D_{stratum}$)
 - Permeability, in/hr, K_a (Calculate using formula):

$$K_a = [h_{rise}/T] \times [A_{av}/2.27 (H^2 - h^2)] \times 60 \text{ min/hr}$$

t_n	d_n (in.)	l, w (ft^2)	A_n , (ft^2)	h_{rise} (in)	A_{av} (ft^2)	h (ft)	K_a
t_0				XXXX	XXXX	XXXX	XXXX
t_1							
t_2							
t_3							
t_4							
t_0				XXXX	XXXX	XXXX	XXXX
t_1							
t_2							
t_3							
t_4							
t_0				XXXX	XXXX	XXXX	XXXX
t_1							
t_2							
t_3							
t_4							

5. Record the Following Data:

- Final Depth of Pit, D_{pit} , ft _____
- Depth to Impermeable Stratum, ft, $D_{stratum}$ _____
(If no impermeable stratum is encountered assume $D_{stratum} = D_{pit}$)
- Height of Standpipe Above Reference Level, ft, h_{pipe} _____
- Depth to Water Level after 24 hr. Stabilization Period, ft, D_{water} _____
(Take measurement from top of standpipe. Subtract h_{pipe})
- Height of Static Water Level Above Impermeable Stratum, ft, H _____
($H = D_{stratum} - D_{water}$)
- Average Height of Water Level Above Impermeable Stratum, ft, h _____
(Take average of d_n from beginning and end of last time interval recorded in section 4, convert this to ft., subtract from $D_{stratum}$)

6. Re-calculation of K using data from section 5 above and from final time interval of section 4: $K = [h_{rise}/t] \times [A_{av}/2.27(H^2 - h^2)] \times 60 \text{ min/hr}$

$$= [_/_] \times [_/2.27 (_ - _)] \times 60 \text{ min/hr} = \underline{\hspace{2cm}}$$

7. I hereby certify that the information furnished on Form 3f of this application is true and accurate. I am aware that falsification of data is a violation of the Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and is subject to penalties as prescribed in N.J.A.C. 7:14-8.

Signature of Site Evaluator _____ Date _____

Signature of Professional Engineer _____ License # _____



**APPLICATION FOR PERMIT TO CONSTRUCT/ALTER/REPAIR AN INDIVIDUAL
SUBSURFACE SEWAGE DISPOSAL SYSTEM**

Form 3g: Basin Flooding Test Data for Municipality _____ Block _____ Lot _____

1. Test Number _____ Reference Soil Log _____ Date Tested _____

2. Depth of Pit, ft _____

3. Area of Pit, ft² _____

4. Description of Rock Substratum Within Test Zone:

Type of Rock _____

Name of Formation _____

Average Fracture Spacing _____

Type of Fractures (Check Appropriate Category):

____ Open (Wide), Clean-Width of Openings, mm _____

____ Open (Wide), Infilled with Fines-Width of Openings, mm _____

____ Tight (Closed)

Orientation of Fractures:

____ Horizontal (Parallel to Pit Bottom) Or Nearly So

____ Inclined

____ Vertical (Parallel to Sides of Pit) Or Nearly So

Hardness of Rock:

____ Rippable with Hand Tools

____ Not Rippable with Hand Tools, Rippable by Machine

____ Not Rippable by Machine, Explosives Used

5. Time of First Basin Flooding _____

Volume of Water Added, Gal. _____

6. Result of First Basin Flooding:

____ Basin Drained within 24 Hrs.-Indicate Time _____

____ Basin Not Drained within 24 Hrs.

7. Time of Second Basin Flooding _____

Volume of Water Added, Gal. _____

8. Result of Second Basin Flooding:

____ Basin Drained within 24 Hrs.-Indicate Time _____

____ Basin Not Drained within 24 Hrs.

9. I hereby certify that the information furnished on Form 3g of this application is true and accurate. I am aware that falsification of data is a violation of the Water Pollution Control Act (N.J.S.A. 58:10A-1 etseq.) and is subject to penalties as prescribed in N.J.A.C. 7:14-8.

Signature of Site Evaluator _____ Date _____

Signature of Professional Engineer _____ License # _____



**APPLICATION FOR PERMIT TO CONSTRUCT/ALTER/REPAIR AN INDIVIDUAL
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Form 4: General Design Data for Municipality _____ Block _____ Lot _____

1. Volume of Sanitary Sewage, gal. _____
 ___ Residential: No. of Dwelling Units _____ Total No. of Bedrooms _____
 ___ Commercial/Institutional-Indicate type of establishment and show method of calculation. If estimate is based on water meter data, indicate source of data, frequency of readings, average daily flow, and maximum recorded daily reading _____

2. Alterations or Repairs
 a) Reason for Alteration or Repair (Check appropriate categories):
 ___ Expansion or Change in Use ___ Upgrade Existing Facilities
 ___ Correct Malfunctioning System
 ___ Other-Specify _____
 b) Describe Nature of Alteration or Repairs: _____

3. System Components
 a) Grease Trap Capacity, gals _____
 Show Calculation Used: _____
 b) Septic Tank Capacities, gals: _____
 First (Single) Compartment: _____ Second Compartment: _____
 Third Compartment: _____
 c) Effluent Distribution
 Method: ___ Gravity Flow ___ Gravity Dosing ___ Pressure Dosing
 Dosing Device: ___ Pump ___ Siphon
 d) Dosing Tank Capacities, gals:
 Total Capacity _____ Dose Volume _____ Reserve Capacity _____
 e) Laterals: Number _____ Total Length _____ Pipe Size _____ Spacing _____
 f) Connecting Pipe: Size _____ Length _____
 g) Manifold: Size _____ Length _____
 h) Disposal Field: Type of Installation _____
 Design Permeability (Percolation Rate) _____
 Trenches: Width _____ Total Length _____ Bed: Area _____
 i) Seepage Pits: Design Percolation Rate _____
 Number of Pits _____ Total Percolating Area Provided _____

4. Attachments (Check applicable items):

- General Plan of Property and System Showing Location of All System Components
- X-Sections of Each System Component Including Grease Trap, Septic Tank, Dosing Tank, Disposal Field, Seepage Pits and Interceptor Drains
- Pump Performance Curve
- Other-Specify _____

5. I hereby certify that the information furnished on Form 4 of this application (and attachments thereto) is true and accurate. I am aware that falsification of data is a violation of the Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and is subject to penalties as prescribed in N.J.A.C. 7:14-8.

Professional Engineer or Installer Name (print)_____

Signature of Professional Engineer or Installer_____ Date _____

License #_____



**APPLICATION FOR PERMIT TO CONSTRUCT/ALTER/REPAIR AN INDIVIDUAL
SUBSURFACE SEWAGE DISPOSAL SYSTEM**

Form 5: Design of Pressure Dosing System for Municipality _____ Block _____ Lot _____

1. Configuration of Distribution Network:

Type of Manifold: _____ End _____ Central
Distribution Laterals: Number _____ Length, ft _____ Spacing, ins _____
Diameter of Lateral, ins _____ Total Lateral Volume (V_l), gals _____
Hole Diameter, ins _____ Hole Spacing, ins _____

2. Lateral Discharge Rate:

Design Pressure Head at Supply End of Laterals (H_p), ft _____
Hole Discharge Rate (Q), gpm _____ Number of Holes per Lateral (n) _____
Lateral Discharge Rate, ($Q \times n$) gpm _____

3. Manifold Length, ft _____ Manifold Diameter, ins _____ Total manifold Volume (V_m) _____

4. System Discharge Rate, gpm _____

5. Dose Volume:

Design Volume of Sewage, gal/day _____
Design Permeability, in/hr _____ or Percolation Rate, min/in _____
Total Volume of Delivery Pipe (V_p) _____
Internal Volume of Distribution Network ($V = V_p + V_m + V_l$) _____
Dose Volume (V_d) _____

6a. Pump Selection:

Length of Delivery Pipe _____ Diameter of Delivery Pipe _____
Friction Loss in Delivery Pipe (H_f), ft _____
Elevation of Dosing Tank Low Water Level _____
Elevation of Lateral Invert _____
Elevation Head (H_e), ft _____
Total Operating Head ($H_t = H_p + H_f + H_e$), ft _____
Pump Model _____ Rated Horsepower _____
Pump Discharge Rate at Total Operating Head, gpm _____

6b. Siphon Elevation:

Length of Delivery Pipe _____ Diameter of Delivery Pipe _____
Friction Loss in Delivery Pipe (H_f), ft _____
Velocity Head (H_v), ft _____
Total Operating Head ($H_t = H_p + H_f + H_v$), ft _____
Elevation of Lateral Invert _____
Elevation of Siphon Invert _____

7. I hereby certify that the information furnished on Form 5 of this application (and attachments thereto) is true and accurate. I am aware that falsification of data is a violation of the Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and is subject to penalties as prescribed in N.J.A.C. 7:14-8.

Signature of Professional Engineer _____ Date _____