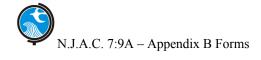


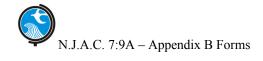
Form 1 General Information

Lot:	Block:		
1.	Type of Permit Needed (check applicable categories): New Construction Alteration/Expansion or Change in Use Alteration/Malfunctioning System Deviation from Standards R	Alteration/No Expansion or Change of Repairs to Existing System	Use
2.	Location of project: Municipality: Street Address: Zip Code: Block No.: Lot No.: New Jersey State Plane Feet Coordinates: (optional) X-0		
3.	Name of Applicant:Present Address:		
4.	Estimated Cost of Project: (optional)		
5.	Applicants Phone Number:	(second tel. no.)	
6.	Type of facility: Residential Commercial/Industrial Specify type of establishment:		
7.	Type of waste to be discharged: Sanitary Sewage Industrial Wastes Other-(specify):		
8.	Other approvals/certification/waivers/exemptions (attaclenge) Pinelands Commission U.S. Army Corps of Engineers NJDEP – Bureau of Flood Plain Management Other – (specify):	h to application):	
9.	I hereby certify that the information furnished on Form aware that false swearing is a crime in this State and sub-		nts thereto) is true. I am
	Signature of Applicant:	Date:	:
County:	Mu	unicipality:	
FOR AC	GENCY USE ONLY Application Denied – Reason for Denial/Citation of Ru Application Approved Application Approved Subject to Approval by NJDEP Action: re of Authorized Agent: Name and Title:	ıles Violated:	



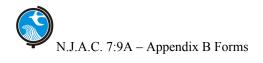
Form 2a General Site Evaluation Data

Lot:	Block:	
1.	Name of Site Evaluator:	
2.	Business Address of Site Evaluator:	
3.	Business Phone Number of Site Evaluator:	
4.	Special site limitations identified (check appropriate categories):	
	Flood Plains Bedrock Outcrops Excessively Stony Disturbed Ground Sand Dunes Sink Holes	Wetlands Steep Slopes
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) Filled Area Excavated Area Subsurface Drains Other-Specify	Re-graded Area
	b. Pre-existing Natural Ground Surface Elevation relative to existing ground surface Method of identification	
	c. Suitability of disturbed ground: Unsuitable, objects subject to disintegration or change in volume Excessively course Proctor text performed % Standard proctor density =	
7.	Hydraulically head test:	
	a. Hydraulically restrictive horizon, Depth to bottom: b. Piezometer A, Depth to bottom: c. Piezometer B, Depth to bottom: d. Witnessed by: Depth of water level (24 hrs): Depth of water level (24 hrs): (signature)	Date:
8.	Attachments (check items included)	
	Site plan: Key map showing location of site on U.S.G.S. Quadrangle or Other Accurate map: Key map showing location of site on U.S.D.A. Soil Survey map: Other – Specify	
9.	I hereby certify that the information furnished on Form 2a of this application (and the accurate. I am aware that falsification of data is a violation of the Water Pollution Ceseq.) and is subject to penalties as prescribed in N.J.A.C. 7:14-8.	
	Signature of Soil Evaluator: Signature of Professional Engineer:	Date:
County:	Municipality:	



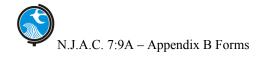
Form 2b Soil Log and Interpretation

t: Bloc	k:		
1. Log Number:	Method (check one):	Profile Pit:	Boring:
2. Soil Log: Depth: (inches) Top-Bottom:			
[Munsel color name and syr or dry consistence; mottling	nbol; estimated textural class; esti – abundance, size and contrast, it	imated volume % coarse	e fragment, if present; structure; mo
	th: De	pth: (inches)	Hours:
Fractured rock substratum – Massive rock substratum- de Excessively coarse horizon Excessively coarse substratu Hydraulically restrictive hor Hydraulically restrictive substrational su	epth to top: - depth top to bottom: im - depth to top: izon - depth top to bottom: ostratum - depth to top: depth top to bottom:		
accurate. I am aware that fa	nformation furnished on Form 2b Isification of data is a violation of		the attachments thereto) is true an ontrol Act (N.J.S.A. 58:10A-1 et so
J 1	s prescribed in N.J.A.C. 7:14-8.		Date:
Signature of Professional En	ngineer:		Date: License #:
unty:	Mui	nicipality:	



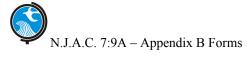
Form 3a Soil Permeability Data

1. Summary o	of data – Ente	er data for each test i	replicate on a separate line.		
Type of T		Test (number)	Replicate (letter)	Depth (inches)	Result*
Single re Slowest 3. Identificati	of replicates on and class	ification			
Тур	e of Limiting	g Zone Identified	Test	Number	
лур	e of Limiting	g Zone Identified	Test	Number	
4. Attachments Form 3b Form 3c Form 3d Form 3e Form 3f	s (check item - Tube perme - Soil Perme - Percolation - Pit-Bailing - Piezometer	s included): eameter test data; N	umber of sheets. Test Data; Number of sheet of sheets of sheets of sheets		
4. Attachments Form 3b Form 3c Form 3f Form 3f Form 3g 6. I hereby certaccurate. I am	s (check item - Tube perme - Soil Perme - Percolation - Pit-Bailing - Piezometer - Basin Flood	s included): eameter test data; Nability Class Rating Test Data; Number Test Data; Number Test Data; Number ding Test Data; Number	umber of sheets. Test Data; Number of sheet of sheets of sheets of sheets aber of sheets don Form 3a of this applicate a violation of the Water Po	ts	
4. Attachments Form 3b Form 3c Form 3f Form 3f Form 3g 6. I hereby certaccurate. I am and is subject to	s (check item - Tube perme - Soil Perme - Percolation - Pit-Bailing - Piezometer - Basin Flood tify that the i aware that fa	s included): eameter test data; Nability Class Rating Test Data; Number Test Data; Number Test Data; Number Jest Data; N	umber of sheets. Test Data; Number of sheet of sheets of sheets of sheets aber of sheets don Form 3a of this applicate a violation of the Water Po	ts ation (and the attachments Ilution Control Act (N.J.S	.A. 58:10A-1 et s



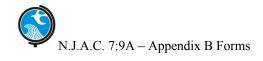
Form 3b Tube Permeameter Test Data

:	Block:				
1.	Test Number:	Replicate (lette	r):	_ Date collected: _	
2.	Material Tested: Fi	ll: Teste	ed in native s	oil: Indicate De	epth:
3.	Type of Sample: Un	ndisturbed:		Disturbed:	
4.	Sample dimensions: Inside ra	dius of sample tube, R, in	cm I	ength of sample, L, in inches	
5.	Bulk density determination (di Sample weight (wt. tube cor Sample volume (L x 2.54cm Bulk density (sample Wt./Sa	ntaining sample-wt. of ema./inch x 2.24 ²), cc		ams	
6.	Standpipe used: No:	Yes:	Indicate	internal radius, cm:	
7.	Height of water level above rin At the beginning of each tes At the end of each test inter-	t interval, H1			
8.	Rate of water level drop (add a	additional lines if needed)	:		
	Time, start of test interval, t1	Time, end of test, in	iterval t2	Length of test interval, t,	minutes
9.	Calculation of permeability: K, (in/hr) = 60 min/hr x r²/R = 60 min/hr x /	² x L(in)/t(min) x in (H1/ _ x/ x in	H2)) =	
10.	Defects in the Sample (Check None Root Channels Large Gravel	Cracks Soil/Tube Contact Large Roots			
	Dry Soil Other (specify):	Smearing	Compac	tion	
acc	I hereby certify that the information of the curate. I am aware that falsificated is subject to penalties as prescribed.	ion of data is a violation			
Sig	gnature of Soil Evaluator:			Date:	·
	:				



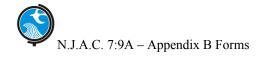
Form 3c Soil Permeability Class rating Data

Lot: _	Block:		
1.	Test Number:	Replicate (letter):	
2.	Sample Depth:	Boring Number:	Date Collected:
3.		grams 2mm sieve, W.C.F., grams F./ W.T. x 100, grams	_
4.	Oven dry weight (24 hrs., 105	C) of 40 gram air dry sample, gra	ams, Wt.
5.	Hydrometer Calibration, Rc:		
6.	Hydrometer reading – 40 seco Temperature of suspension, °F		
7.	Corrected hydrometer reading	, grams, R1':	
8.	Hydrometer reading – 2 hours. Temperature of suspensions, of		
9.	Corrected hydrometer reading	, grams, R2':	
10.	% sand = $(Wt R1') / Wt. x 1$	00 = () / :	x 100 =
11.	% clay = R2'/Wt. x 100 =	/ x 100 =	
12.		sand fraction (Sand passing .25 m	ed in .047 mm sieve), grams: m sieve), grams:
13.	Soil morphology (Natural soil Structure of soil horizon tested Consistence of soil horizon test		_
14.	Soil permeability class rating (K Value=	Based upon average textural analy	vsis of this replicate and other replicate samples):
acc		ion of data is a violation of the Wa	s application (and the attachments thereto) is true and ater Pollution Control Act (N.J.S.A. 58:10A-1 et seq.)
Sig	nature of Soil Evaluator:		Date: License #:
S12	nature of Professional Engineer	·	License #:
County		Municipalit	y:



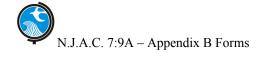
Form 3d Percolation Test Data

ot:		Block:			
1.	Test Number:		Replicate (letter):	Date Tested: _	
2.	Depth:				
	Pre-soak: Sandy textoond filling, minutes	tured soil only	, shortened pre-soak – Indicate	e time required for 12 inches of	water to drain after
	Four hour Test hole Test hole Rate of fall data:	pre-soak comp drained within did not drain w	poleted – Indicate results: 16 to 24 hours after pre-soak within 24 hours after pre-soak tes: el during each time interval to	the nearest 1/10 th — Inch on the l	lines below:
	Depth of wa interval (incl	ter, start of nes)		Drop in water level (inches)	
5	Percolation Rate:				
3.			six-inch drop in water levelmin/in		
acc	curate. I am aware t	nat falsification		is application (and the attachmer ater Pollution Control Act (N.J.	
Sig	gnature of Soil Evalu	nator:		Date:_ Licens	
Sig	gnature of Profession	al Engineer:		Licens	e #:
ounty	:		Municipali	ty:	



Form 3e Piezometer Test Date

Lot:		Block:				
1.	Test	Number:	Reference Soil Log:		Date Tested	:
2.	Diar	meter of soil auger, in.:	Depth of test hole, in.:			
3.	Dep	th of apparent static wat	er level, in	_		
4.	Mea	sure and record:				
		Water Depth, start of interval inches, d1:	Time at start of interval:	Water depth, end of interval inches, d1:	Time at end of interval:	Length of Intercal, min, t:
5.	Dep	th to water level after 24	hours stabilization	period, Dstatic in.:	_	
6.	Valu	ne of A-parameter:				
7.		culation of permeability: $n/hr = [(3.14R^2)/(A \times t)]$ $= [(3.14)/(]$)] x [In(d1 -Dstat / c	d2 – Dstat)] x 60 min/hr [In (/)] x 60 n	nin/hr =
acc	urate.		cation of data is a vi			nents thereto) is true and J.S.A. 58:10A-1 et seq.)
Sig Sig	gnatur gnatur	e of Soil Evaluator: e of Professional Engine	eer:		Date Lice	e: ense #:
County	:			Municipality:		



5.

Form 3f Pit-Balling Test Data

		The Duning Test Dutin	
Lot:	Block: _		
1.	Test Number:	Reference Soil Log:	Date Tested:
2.	 a) Depth to bottom of pit. b) Depth to water level at c) Depth to impermeable the pit.) d) Height of water level at 	ter 2hr. stabilization period, ft Dwater:	unknown assume it to be 1.5 times the depth of
3.	a) Time of measurement,	elow reference level, dn, inches	
4.	 a) Water surface area, ft², b) Water level rise hrise (s c) Average water surface d) Average height of water convert to ft., and subtractions 	ubtract current value of dn from previous varea, ft², Aav (take average of An and previer level above impermeable stratum, ft, h (take	ious An) ake average of dn and previous value of dn,

tn	Dn (in.)	1, w (ft²)	Hrise (in.)	Aav (ft²)	H (ft)	Ka
T0			XXXX	XXXX	XXXX	XXXX
T1						
T2						
T3						
T4						
T0			XXXX	XXXX	XXXX	XXXX
T1						
T2						
T3						
T4						
T0			XXXX	XXXX	XXXX	XXXX
T1						
T2						
T3						
T4						

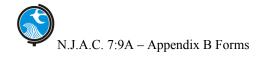
Daa	and the Collecting date:
	cord the following data:
a)	Final depth of Pit, Dpit, ft:
b)	Depth to impermeable stratum, ft, Dstratum:(if no impermeable stratum is encountered
	assume $D_{stratum} = D_{pit}$
c)	Height of standpipe above reference level, ft., hpipe:
d)	Depth to water level after 24 hr. stabilization period, ft, Dwater: (take measurement from top of standpipe subtract hpipe)
e)	Height of static water level above impermeable stratum, ft., H (H = Dstratum – Dwater)
f)	Average height of water level above impermeable stratum, ft, h (take average of dn from beginning and end of last time interval recorded in section 4, convert this to ft., subtract from Dstratum)

6. Re-calculation of K using data from section 5 above and from final time interval of section 4:



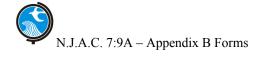
N.J.A.C. 7:9A – Appendix B Forms

$K = [hrise / t] \times [Aav / 2.27 (H2 - h2] \times 60 min/hr =$	x 60 min/hr = [/] x 2.27 ()]
	furnished on Form 3f of this application (a f data is a violation of the Water Pollution of In N.J.A.C. 7:14-8.	
Signature of Soil Evaluator:Signature of Professional Engineer:		Date: License #:
County:	Municipality:	



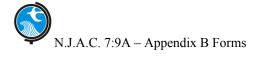
Form 3g Basin Flooding Test Data

Lot: _	Block:		
1.	Test Number:	Reference Soil Log:	Date Tested:
2.	Depth of Pit, ft.:		
3.	Area of Pit, ft ²		
4.	Name of formation:	within test zone:	
	Type of fractures (check approp Open (wide), clean – wide Open (wide), infilled wite Tight (closed)		
	Orientation of Fractures: Horizontal (parallel to pi Inclined Vertical (parallel to sides		
	Hardness of Rock: Rippable with hand tools Not rippable with hand tools Not rippable by machine	ools, rippable by machine	
5.	Time of first basin Flooding: Volume of water added, Gal		
6.	Result of first basin Flooding: Basin drained within 24 Basin not drained within	hours – Indicate time24 hours	
7.	Time of Second basin Flooding: Volume of water added, gallon:		
8.	Result of Second Basin Flooding Basin drained within 24 Basin not drained within	hours – Indicate time	
acc		on of data is a violation of the Water Pollu	tion (and the attachments thereto) is true and ation Control Act (N.J.S.A. 58:10A-1 et seq.)
Sig Sig	nature of Soil Evaluator:		Date:License #:
		Municipality:	



Form 4 General Design Data

Lot: _	Block:			
1.	Volume of sanitary sewage, gal.: Residential: number of dwelling units: Total number if 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 recordaily 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:			
	Show calculation used: b) Septic tank capacities, gals: First compartment gals: Second gals Third gals: c) Effluent distribution Gravity flow: Gravity dosing: Pressure dosing: Dosing device: Pump: Siphon d) Dosing tank capacities, gals.: Total capacity: Dose volume: Reserve capacity: e) Laterals: Total length: Pipe size: Spacing: Total Number: 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 percolation area provided:			
4.				
acc	I hereby certify that the information furnished on Form 4 of this application (and the attachments thereto) is true and curate. 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.) It is subject to penalties as prescribed in N.J.A.C. 7:14-8.			
Sig	nature of Soil Evaluator: Date: License #:			
County	: Municipality:			



Form 5 Design of Pressure Dosing System

Lot: _	Block:	
1.	Configuration of distribution network: Type of manifold: End Central Distribution laterals: Number Length, ft: Spacing, ft: Hole diameter, inches: Hole spacing, inches:	_
2.	Lateral discharge rate: Design pressure head at supply end of laterals, Hp, ft: Hole discharge rate, Q, gpm: Number of holes per lateral, n: Lateral discharge rate, (Qxn) gpm:	
3.	Manifold length, ft: Manifold diameter, inches:	
4.	System discharge rate, gpm:	
5.	Pump selection: Diameter of delivery pipe: Length of delivery pipe: Friction loss in delivery pipe, Hf, ft: Elevation of dosing tank low water level: Elevation of lateral invert: Elevation head, He, ft: Total operating head, Ht (Hp + Hf + He), ft: Pump model: Rated Horsepower: Pump discharge rate at total operation head, gpm:	
6.	Siphon Elevation: Diameter of delivery pipe: Length of delivery pipe: Friction loss in delivery pipe, Hf, ft: Velocity head, Hv, ft: Total operating head, Ht (Hp + Hf + Hv), ft: Elevation of lateral invert: Elevation of siphon invert:	
7.	Dose Volume: Design volume of sewage, gal/day: Design permeability, in/hr: or Percolation rate, min/in: Internal volume of distribution network: Dose volume:	_
acc	I hereby certify that the information furnished on Form 5 of this application (and the curate. I am aware that falsification of data is a violation of the Water Pollution Cond is subject to penalties as prescribed in N.J.A.C. 7:14-8.	
Signatu	re of Soil Evaluator:	Date:
Signatu	re of Soil Evaluator: re of Professional Engineer:	License #:
County	: Municipality:	