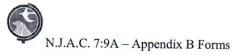


Form 1 General Information

Lot: _	Block:
1.	Type of Permit Needed (check applicable categories): New Construction Alteration/Expansion or Change in Use Alteration/Malfunctioning System Deviation from Standards Repairs to Existing System
2.	Location of project: Municipality: Street Address: Zip Code: Block No.: Lot No.: New Jersey State Plane Feet Coordinates: (optional) X-Coord.: Y-Coord:
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 (attach to application): Pinelands Commission U.S. Army Corps of Engineers NJDEP - Bureau of Flood Plain Management Other - (specify):
9.	I hereby certify that the information furnished on Form 1 of this application (and the attachments thereto) is true. I am aware that false swearing is a crime in this State and subject to prosecution.
	Signature of Applicant: Date:
County:	Municipality:
Date of A	Application Denied – Reason for Denial/Citation of Rules Violated:



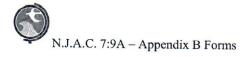
Form 2a General Site Evaluation Data

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
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 Coseq.) and is subject to penalties as prescribed in N.J.A.C. 7:14-8.	attachments thereto) is true and introl Act (N.J.S.A. 58:10A-1 et
	Signature of Soil Evaluator: Signature of Professional Engineer:	Date:
County:	Municipality:	



Form 2b Soil Log and Interpretation

Lot: _	Block	·		
1.	Log Number:	Method (check one):	Profile Pit:	Boring:
2.	Depth: (inches)			
[M				fragment, if present; structure; mois
or	dry consistence; mottling -	abundance, size and contrast, i	f present]	ragment, it present, structure, mois
3.	Ground water observation Seepage-indicate depth Pit/Boring-depth flood	:	epth: (inches)	Hours:
4.	Soil limiting zones (check	k appropriate categories):		
M: Ex Ex Hy Pe	cessively coarse substratung draulically restrictive horized restrictive substractive substracti	th to top: depth top to bottom: n – depth to top: con – depth top to bottom: cratum – depth to top: depth top to bottom:		
5.	Soil Suitability Classifica	tion:		
acc	curate. I am aware that fals	Formation furnished on Form 2b ification of data is a violation or orescribed in N.J.A.C. 7:14-8.	of this application (and t f the Water Pollution Cor	the attachments thereto) is true and attrol Act (N.J.S.A. 58:10A-1 et seq.)
Sig	gnature of Soil Evaluator:			Date:
Sig	gnature of Professional Eng	ineer:		Date: License #:
County	r:	Mui	nicipality:	



Form 3a Soil Permeability Data

or 3a Use one si	for each test and a letter for heet for each separate test or	each test replicate. Show tes	st data and calculations of	n Form 3d, 3c, 3c
1. Summary of	data - Enter data for each te			
.Type of Te	est Test (number)	Replicate (letter)	Depth (inches)	Result*
2011148411101111111111111111111111111111				
***************************************	***************************************			

		***************************************]	
***************************************		***************************************		
Average of Single replication Slowest of		-	_	
3. Identification	and classification	_		
	and classification of Limiting Zone Identified	Tes	t Number	
		Tes	t Number	
		Tes	t Number	
		Tes	t Number	
		Tes	t Number	
		Tes	t Number	
		Tes	t Number	
		Tes	t Number	
4. Attachments (c Form 3b- T Form 3c- S Form 3d- P Form 3f- Pi Form 3g- B 6. I hereby certify accurate. I am aw	check items included): Tube permeameter test data; Tube permeability Class Rating Percolation Test Data; Number Tite Bailing	Number of sheets. g Test Data; Number of sheeter of sheets er of sheets er of sheets imber of sheets ed on Form 3a of this application of the Water Po	ets	thereto) is true a
4. Attachments (c Form 3b- T Form 3c- S Form 3d- P Form 3f- Pi Form 3g- B 5. I hereby certify	check items included): Tube permeameter test data; Tube permeability Class Rating Percolation Test Data; Number Tite Bailing Test Data; Number Tite Basin Flooding Test Data; Number	Number of sheets. g Test Data; Number of sheeter of sheets er of sheets er of sheets imber of sheets ed on Form 3a of this application of the Water Po	ets	thereto) is true a S.A. 58:10A-1 et
4. Attachments (c Form 3b- T Form 3c- S Form 3d- P Form 3f- Pi Form 3g- B 6. I hereby certify accurate. I am awand is subject to possible	check items included): Tube permeameter test data; Tube permeability Class Rating Percolation Test Data; Number Tite Bailing	Number of sheets. g Test Data; Number of sheet er of sheets er of sheets imber of sheets ed on Form 3a of this applicates a violation of the Water Potal. A.C. 7:14-8.	etsation (and the attachments	thereto) is true a s.A. 58:10A-1 et :



N.J.A.C. 7:9A – Appendix B Forms

Form 3b Tube Permeameter Test Data

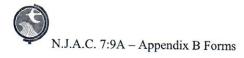
ot:	Block:		
1.	Test Number:	Replicate (letter):	Date collected:
2.	Material Tested:	Fill: Tested in native	soil: Indicate Depth:
3.	Type of Sample:	Undisturbed:	Disturbed:
4.	Sample dimensions: Inside	radius of sample tube, R, in cm I	Length of sample, L, in inches
5.	Sample volume (L x 2.54	(disturbed samples only): containing sample-wt. of empty tube), gr cm./inch x 2.24²), cc/ /Sample Volume), grams/cc	rams
6.	Standpipe used: N	o: Yes: Indicate	internal radius, cm:
7.	Height of water level above At the beginning of each At the end of each test int	test interval, H1	
8.	Rate of water level drop (ad	d additional lines if needed):	
	Time, start of test interval, t	Time, end of test, interval t2	Length of test interval, t, minutes
	= 60 min/hr x / _ Defects in the Sample (Che	*/R ² x L(in)/t(min) x in (H1/H2) x/ x in (/) =
	Large Gravel Dry Soil	Soil/Tube Contact Large Roots Smearing Compac	ction
11.	urate. I am aware that falsific	cation of data is a violation of the Water	plication (and the attachments thereto) is true and Pollution Control Act (N.J.S.A. 58:10A-1 et seq
acci	l is subject to penalties as pres	serioed in IV.J.A.C. 7.14-8.	
and	l is subject to penalties as pres		Date: License #:



N.J.A.C. 7:9A – Appendix B Forms

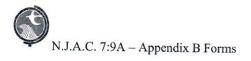
Form 3c Soil Permeability Class rating Data

Lot: _	Block:
1.	Test Number: Replicate (letter):
2.	Sample Depth: Boring Number: Date Collected:
3.	Course Fragment Content: Total weight of sample. WT, grams Weight of material retained on 2mm sieve, W.C.F., grams Wt. % Coarse Fragment (W.C.F./ W.T. x 100, grams
4.	Oven dry weight (24 hrs., 105° C) of 40 gram air dry sample, grams, Wt.
5.	Hydrometer Calibration, Rc:
6.	Hydrometer reading – 40 seconds, grams, R1: Temperature of suspension, °F:
7.	Corrected hydrometer reading, grams, R1':
8.	Hydrometer reading – 2 hours, grams, R2: Temperature of suspensions, °F:
9.	Corrected hydrometer reading, grams, R2':
10.	% sand = (Wt. – R1') / Wt. x 100 = () / x 100 =
11.	% clay = R2'/Wt. x 100 = / x 100 =
12.	Sieve Analysis: a. Oven dry Wt. (2hrs., 105°C) Total sand fraction (soil retained in .047 mm sieve), grams: b. Wt. of fine plus very fine sand fraction (Sand passing .25 mm sieve), grams: c. % fine plus very fine sand (b/a):
13.	Soil morphology (Natural soil samples only): Structure of soil horizon tested: Moist:
14.	Soil permeability class rating (Based upon average textural analysis of this replicate and other replicate samples): K Value=
acci	I hereby certify that the information furnished on Form 3c of this application (and the attachments thereto) is true and rate. 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.) is subject to penalties as prescribed in N.J.A.C. 7:14-8.
Sign	ature of Soil Evaluator: Date: License #:
Sigi	ature of Professional Engineer: License #:
County:	Municipality:



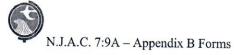
Form 3d Percolation Test Data

Lot: _	Block:			
1.	Test Number:	Replicate (letter):	Date Tested:	
2.	Depth:			
3.	Pre-soak: Sandy textured soil only ond filling, minutes:	y, shortened pre-soak – Indicate	e time required for 12 inches of water	to drain after
4.	Test hole drained within Test hole did not drain Rate of fall data: a. Time interval selected, minu	upleted – Indicate results: n 16 to 24 hours after pre-soak within 24 hours after pre-soak utes: tel during each time interval to	the nearest 1/10 th — Inch on the lines b	pelow:
	Depth of water, start of interval (inches)		Drop in water level (inches)	
and	b. Percolation rate = a/6 = I hereby certify that the information urate. I am aware that falsification is subject to penalties as prescribe	a six-inch drop in water levelmin/in on furnished on Form 3d of thin of data is a violation of the Wed in N.J.A.C. 7:14-8.		58:10A-1 et seq.)
			License #:	



Form 3e Piezometer Test Date

Lot:	Block: _				
1.	Test Number:		ence Soil Log:	Date Teste	ed:
2.	Diameter of soil auger, in.:	Depth o	f test hole, in.:		
3.	Depth of apparent static wat	ter level, in.			
4.	Measure 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. 6.	Depth to water level after 24 Value of A-parameter:		n period, Dstatic in.:	_	
7.	Calculation of permeability: K, in/hr = $[(3.14R^2)/(A \times t^2)]$)] x [In(d1 -Dstat / c	d2 – Dstat)] x 60 min/hr [[In (/ _)] x 60	min/hr =
acci	I hereby certify that the informate. I am aware that falsific is subject to penalties as pres	rmation furnished o	on Form 3e of this application of the Water Poll	ation (and the attach	ments thereto) is true a
Sign	nature of Soil Evaluator:			Dat	te:
Sign	nature of Professional Engine	er:		Lic	te: ense #:
ounty:			Municipality:		



Lot:

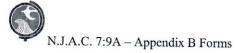
Form 3f Pit-Balling Test Data

t:]	Block:					
1.	Te	st Number:		Reference Soi	l Log:	Date T	ested:	
2.	a)	Depth to bottom Depth to water Depth to imper the pit.) Height of water	e level established, m of pit, ft. Dpit: e level after 2hr. sta rmeable stratum, ft, er level above imper interval, T, in min	bilization period , Dstratum:	, ft Dwater: (if depth is t	 unknown assume		nes the depth of
3.	At a) b) c)	Time of measu Depth of water	sen, record the followerement, tn, minutes level below refered dimensions, ft: I,w	3				
4.	a)	Water surface a Water level rise Average water Average height convert to ft., a	ving values and ent area, ft², An e hrise (subtract cur surface area, ft², A t of water level abo and subtract from D n/hr, Ka (calculate	rent value of dn f av (take average ve impermeable Ostratum)	from previous va of An and previous stratum, ft, h (ta	ous An) ke average of dn		
		tn	Dn (in.)	l, w (ft²)	U-i (in)	Λ (Ω2)	TI (A)	T7
		То	Dif (III.)	1, w (1t)	Hrise (in.)	Aav (ft²) XXXX	H (ft)	Ka
		T1		***************************************			XXXX	XXXX
		T2		***************************************				***************************************
		***************************************					****	
		T3			***************************************	***************************************		
		T4				***************************************	(
		To		************************************	XXXX	XXXX	XXXX	XXXX
		T1						***************************************
		T2						***************************************
		T3						
		T4						***************************************
		То			XXXX	XXXX	XXXX	XXXX
		T1						***************************************
		T2					***************************************	***************************************
		T3	i	***************************************				***************************************
		T4					***************************************	
5.	a)	Depth to imper assume Dstratun Height of stand Depth to water subtract hpipe) Height of static Average height	Pit, Dpit, ft: meable stratum, ft,	ce level, ft., hpipe abilization perio impermeable strave impermeable	e: d, ft, Dwater: atum, ft., H stratum, ft, h	(take meas (H = Dstrate (take avera	urement from to um – Dwater) ge of dn from b	
6.	Re-	calculation of K	using data from se	ction 5 above an	d from final time	e interval of secti	on 4:	



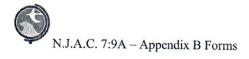
N.J.A.C. 7:9A - Appendix B Forms

$K = [hrise / t] \times [Aav / 2.27 (H2 - h2] \times 60 min/$ $\times 60 min/hr = $	/hr = [/] x 2.27 ()]
7. I hereby certify that the information furnished accurate. I am aware that falsification of data is a and is subject to penalties as prescribed in N.J.A.C.	violation of the Water Pollution Control	attachments thereto) is true and l Act (N.J.S.A. 58:10A-1 et seq.
Signature of Soil Evaluator: Signature of Professional Engineer:		Date:
County:	Municipality:	



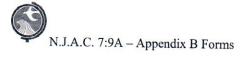
Form 3g Basin Flooding Test Data

Lot: _	Block:						
1.	Test Number:	Reference Soil Log:	Date Tested:				
2.	Depth of Pit, ft.:						
3.	Area of Pit, ft²						
4.	Description of rock substratum	within test zone:					
	Name of formation:						
	ranie of formation.						
	Average fracture spacing:						
	Type of fractures (check appropriate of pen (wide), clean – with the open (wide), infilled with the open (wide) appropriate of the open (wide).	oriate category): dth of openings, mm th fines – width of openings, mm	-				
	Orientation of Fractures:						
		5.1 S 1					
	Horizontal (parallel to p	it bottom) or nearly so					
	Inclined	2.43					
	Vertical (parallel to side	Vertical (parallel to sides of pit) or nearly so					
	Hardness of Rock:						
	Rippable with hand tool	2					
	Not rippable with hand t						
	Not rippable by machine	e, explosives used					
5.	Time of first basin Flooding:						
٥.	Volume of water added, Gal.						
	volume of water added, Gar						
6.	Result of first basin Flooding:						
	Basin drained within 24	hours – Indicate time					
	Basin not drained within	24 hours					
	Basin not drained within	124 Hours					
7.	Time of Second basin Flooding						
	Volume of water added, gallon:	-					
	volume of water added, gamon.						
8.	Result of Second Basin Floodin	a:					
0.	Basin drained within 24						
	Basin not drained within						
	Basin <u>not</u> dramed within	1 24 110015					
9.	I hereby certify that the informa	tion furnished on Form 3g of this applies	tion (and the attachments thereto) is true and				
	urate. I am aware that falsification	on of data is a violation of the Water Polls	ition Control Act (N.J.S.A. 58:10A-1 et seq.)				
and	is subject to penalties as prescrib	and in N.I.A.C. 7:14.8	ition Control Act (N.J.S.A. 58:10A-1 et seq.)				
and	is subject to penalties as present	Jed III IV.J.A.C. /:14-8.					
Sig	nature of Soil Evaluator		Data				
Sig	nature of Professional Engineer		Date: License #:				
~-6			License #.				
ounty:		Municipality					
		with the party					



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 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 compartment gals: Second gals Third gals:
	c) Septic talix capacities, gals First compartment gals: Second gals Third gals: Setiment distribution Method: Gravity flow: Gravity dosing: Pressure dosing: Dosing device: Pump: Siphon
4.	Attachments: (check items included): General plan of 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)
accı	I hereby certify that the information furnished on Form 4 of this application (and the attachments thereto) is true and trate. 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.) is subject to penalties as prescribed in N.J.A.C. 7:14-8.
Sign	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: Diameter of laterals, 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: 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:	
8. I hereby certify that the information furnished on Form 5 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: Signature of Professional Engineer: License #:		
County: Municipality:		