Modified DEP Forms 11 & 12 - Soil Suitability Assessment & Percolation Test for On-Site Sewage Disposal
Massachusetts City or Town: SEEKONK, MA

InSite Professional Engineers and Land Surveyors — 1539 Fall River Ave, Seekonk, MA 02771 — Phone: (508) 336-4500 — Fax: (508) 336-4558

NAME: ROBERT A. ARAUJO — STREET: 85 BISHOP AVENUE — TOWN: SEEKONK, MA 02771
CLIENT: 3-22-2011 & 7-26-2011 — DATE: 7-26-2011 — SITE: INSITE JOB# 05-103 — STREET: BEHIND 820 ARCADE AVENUE
WEATHER: A.P. 15 / LOT 20 — MAP/LOT: A.P. 15 / LOT 20
PHONE #: 508-761-7071 — REPAIR: BY 2 FAMILY SUNNY — MAP/LOT: BY 2 FAMILY SUNNY — NEW: X
PERFORMED BY: MICHAEL S. FARIA RI PE, MA SE708 — VEGETATION: HAY FARM FIELD — SITE SKETCH: (SEE PRELIM. & NEW SUBDIV. PLAN)
WITNESSED BY: HAROLD E. CHENEVERT, Jr. & BETH HALLAL — LAND USE: FARM / RESIDENTIAL — DEPTH TO BEDROCK: NONE OBSERVED (BEFORE NEW LOT 1; TP 1)
EXCAVATION CO.: COSTA DEVELOPMENT, LLC — DEPTH TO BEDROCK: NONE OBSERVED (NEW LOT 1; TP 2, 3, 4 & 5) (NEW LOT 3; TP 11 & 12)
SURFACE STONES: NONE — SLOPE: 0-5% ±

DEEP OBSERVATION HOLE LOG

Deep Hole #	Depth from surface (inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (munsell)	Soil Mottling (inches) Concentration Color	Other (Structure, Stones, Consistency, % Gravel)
TP1	0-8	Ap	SANDY LOAM	10YR3/2		FRIABLE
8/13/2011	8-18	B	LOAMY SAND	10YR5/6		FRIABLE
	18-120	C	FINE-MED.-COARS.SAND	2.5YR5/2	18" 7.5YR5/8	FRI.-FIRM. 70 % ST.GRAVEL & GRAVEL
TP2	0-8	Ap	SANDY LOAM	10YR3/2		FRIABLE
	8-18	B	LOAMY SAND	10YR5/6		FRIABLE
	18-48	C1	FINE-MED.-COARS.SAND	2.5YR5/2	24" 7.5YR5/8	FRIABLE, 30 % GRAVEL
	48-120	C2	FINE-MED.-COARS.SAND	2.5YR5/2		FRI.-FIRM. 70 % STONES & GRAVEL
TP3	0-8	Ap	SANDY LOAM	10YR3/2		FRIABLE
8/13/2011	8-18	B	LOAMY SAND	10YR5/6		FRIABLE
	18-48	C1	FINE-MED.-COARS.SAND	2.5YR5/2	24" 7.5YR5/8	FRIABLE, 30 % GRAVEL
	48-120	C2	FINE-MED.-COARS.SAND	2.5YR5/2		FRI.-FIRM. 70 % STONES & GRAVEL
TP4	0-8	Ap	SANDY LOAM	10YR3/2		FRIABLE
8/13/2011	8-18	B	LOAMY SAND	10YR5/6		FRIABLE
	18-36	C1	FINE-MED.-COARS.SAND	2.5YR5/2	24" 7.5YR5/8	FRIABLE, 30 % GRAVEL
	36-120	C2	FINE-MED.-COARS.SAND	2.5YR5/2		FRI.-FIRM. 70 % STONES & GRAVEL
TP5	0-8	Ap	SANDY LOAM	10YR3/2		FRIABLE
8/13/2011	8-18	B	LOAMY SAND	10YR5/6		FRIABLE
	18-36	C1	FINE-MED.-COARS.SAND	2.5YR5/2	24" 7.5YR5/8	FRIABLE, 30 % GRAVEL
	36-120	C2	FINE-MED.-COARS.SAND	2.5YR5/2		FRI.-FIRM. 70 % STONES & GRAVEL
TP6	0-8	Ap	SANDY LOAM	10YR3/2		FRIABLE
8/13/2011	8-18	B	LOAMY SAND	10YR5/6		FRIABLE
	18-24	C1	FINE-MED.-COARS.SAND	2.5YR5/2	24" 7.5YR5/8	FRIABLE, 30 % GRAVEL
	24-120	C2	FINE-MED.-COARS.SAND	2.5YR5/2		FRI.-FIRM. 70 % STONES & GRAVEL
TP7	0-12	Ap	SANDY LOAM	10YR3/2		FRIABLE
8/13/2011	12-24	B	LOAMY SAND	10YR5/6		FRIABLE
	24-120	C	FINE-MED.-COARS.SAND	2.5YR5/2	24" 7.5YR5/8	FRI.-FIRM. 70 % STONES & GRAVEL
TP8	0-12	Ap	SANDY LOAM	10YR3/2		FRIABLE
8/13/2011	12-24	B	LOAMY SAND	10YR5/6		FRIABLE
	24-120	C	LOAMY SAND	10YR5/1	48" 7.5YR5/8	LOOSE, STRATIFIED, + 50 % GRAVEL
TP9	0-4	Ap	SANDY LOAM	10YR3/2		VERY FRIABLE TO LOOSE
8/14/2011	4-18	B	LOAMY SAND	10YR5/6		LOOSE, + 50 % COBBLES
	18-120	C	FINE MEDIUM CORSE SAND	10YR5/1	60" 7.5YR5/8	LOOSE, STRATIFIED, + 50 % COBBLES
TP10	0-4	Ap	SANDY LOAM	10YR3/2		VERY FRIABLE TO LOOSE
8/14/2011	4-18	B	LOAMY SAND	10YR5/6		LOOSE, + 50 % COBBLES
	18-120	C	FINE MEDIUM CORSE SAND	10YR5/1	60" 7.5YR5/8	LOOSE, STRATIFIED, + 50 % COBBLES

DISTANCES FROM (ft.) APPROXIMATE (VERIFY): Hole # TP1 TP2 TP3 TP4 TP5 TP6 TP7 TP8 TP9 TP10; Open Water Body >200 >200 >200 >200 >200 >200 >200 >200 >200 >200; Possible Wet Area >100 >100 >100 >100 >100 >100 >100 >100 >100 >100; Drinking Water Well >100 >100 >100 >100 >100 >100 >100 >100 >100 >100; Drainageway >50 >50 >50 >50 >50 >50 >50 >50 >50 >50; Property Line >10 >10 >10 >10 >10 >10 >10 >10 >10 >10; Other (specify)

MOTTLING: Abundance — f: few, c: common, m: many; Size — f: fine, m: medium, c: coarse; Contrast — d: distinct, p: prominent

PERC. TEST 8-30-2011 / 8-26-2011

Hole #	TP2	TP4	TP1	TP5	TP6
Depth of Perc (inches)	36	36	54	60	48
Start/Pre-Soak	10:10	10:36	9:34	10:30	12:32
Time at 1/2"	10:34	11:00	9:49	10:49	12:49
Time at 1"	10:44	DROP	11:35	10:51	12:50
Time at 6"	11:01	30 MIN.	1:28	11:06	12:52
Time at 6" (5 MIN.)	1:12		3:11	11:11	1:07
Rate (MIN/inch)	5	DRAINS	37	5	2

PERCOLATION TEST

Hole #	TP1	TP2	TP3	TP4
Depth of Perc (inches)	50	60	60	60
Start/Pre-Soak	9:20	12:04	9:26	9:06
Time at 1/2"	9:41	9:41	9:44	9:43
Time at 1"	9:44	9:43	9:49	9:47
Time at 6"	9:49	9:47		
Rate (MIN/inch)	<2	<2		

ADDITIONAL TESTING NEEDED: NO
COMMENTS: NONE

SUITABLE: X X X X X X
UNSUITABLE:

DEP CERTIFIED SOIL EVALUATOR PRINTED: MICHAEL S. FARIA RI PE, MA SE708 SIGNED:

I CERTIFY THAT I AM CURRENTLY APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION PURSUANT TO 310 CMR 15.018 TO CONDUCT SOIL EVALUATIONS AND THAT THE ABOVE ANALYSES AND DATA WERE PERFORMED BY ME CONSISTENT WITH THE REQUIRED TRAINING, EXPERTISE AND EXPERIENCE DESCRIBED IN 310 CMR 15.017.
I FURTHER CERTIFY THAT THE RESULTS OF MY SOIL EVALUATION, AS INDICATED ON THIS SOIL EVALUATION FORM, ARE ACCURATE AND IN ACCORDANCE TO 310 CMR 15.017.

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Massachusetts City or Town: SEEKONK, MA

InSite Professional Engineers and Land Surveyors — 1539 Fall River Ave, Seekonk, MA 02771 — Phone: (508) 336-4500 — Fax: (508) 336-4558

NAME: WATERMELLEN, LLC — STREET: 25 NELSON AVENUE — TOWN: SEEKONK, MA 02771
CLIENT: 8-14-2012 — DATE: 8-14-2012 — SITE: INSITE JOB# 05-103 — STREET: BEHIND 820 ARCADE AVENUE
WEATHER: 87+ F SUN — MAP/LOT: A.P. 10/13/15 / LOT 25 — REPAIR: — NEW: X
PHONE #: 508-984-1544 — MAP/LOT: A.P. 10/13/15 / LOT 25 — SITE SKETCH: (SEE SUBDIVISION PLAN) (LOT 10)
PERFORMED BY: MICHAEL S. FARIA RI PE, MA SE708 — VEGETATION: WOODS — SITE SKETCH: (SEE SUBDIVISION PLAN)
WITNESSED BY: BETH HALLAL — LAND USE: FARM / RESIDENTIAL — DEPTH TO BEDROCK: NONE OBSERVED
EXCAVATION CO.: COSTA DEVELOPMENT, LLC — DEPTH TO BEDROCK: NONE OBSERVED
SURFACE STONES: STONE WALLS — SLOPE: 0-5% ±

DEEP OBSERVATION HOLE LOG

Deep Hole #	Depth from surface (inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (munsell)	Soil Mottling (inches) Concentration Color	Other (Structure, Stones, Consistency, % Gravel)
TP13	0-12	Ap	SANDY LOAM	10YR3/2		FRIABLE
8/24/2011	12-24	B	LOAMY SAND	10YR5/6		FRIABLE
	24-120	C	FINE-MED.-COARS.SAND	2.5YR5/2	24" 7.5YR5/8	FRI.-FIRM. 70 % STONES & GRAVEL
TP14	0-10	Ap	SANDY LOAM	10YR3/2		FRIABLE
8/24/2011	10-24	B	SANDY LOAM	10YR5/6		FRIABLE
	24-120	C	FINE-MED.-COARS.SAND	2.5YR5/2	24" 7.5YR5/8	FRI.-FIRM. 70 % STONES & GRAVEL
TP15	0-6	Ap	SANDY LOAM	10YR3/2		FRIABLE
8/24/2011	6-24	B	SANDY LOAM	10YR5/6		FRIABLE
	24-120	C	FINE-MED.-COARS.SAND	2.5YR5/2	24" 7.5YR5/8	FRI.-FIRM. 70 % STONES & GRAVEL
TP16	0-10	Ap	LOAMY SAND	10YR3/2		FRIABLE
8/24/2011	10-24	B	LOAMY SAND	10YR5/6		FRIABLE
	24-120	C	FINE-MED.-COARS.SAND	2.5YR5/2	24" 7.5YR5/8	FRI.-FIRM. 70 % STONES & GRAVEL
TP17	0-10	Ap	LOAMY SAND	10YR3/2		FRIABLE
8/24/2011	10-24	B	LOAMY SAND	10YR5/6		FRIABLE
	24-120	C	FINE-MED.-COARS.SAND	2.5YR5/2	24" 7.5YR5/8	FRI.-FIRM. 70 % STONES & GRAVEL
TP18	0-10	Ap	LOAMY SAND	10YR3/2		FRIABLE
8/24/2011	10-24	B	LOAMY SAND	10YR5/6		FRIABLE
	24-120	C	FINE-MED.-COARS.SAND	2.5YR5/2	24" 7.5YR5/8	FRI.-FIRM. 70 % STONES & GRAVEL

DISTANCES FROM (ft.) APPROXIMATE (VERIFY): Hole # TP13 TP14 TP15 TP16 TP17 TP18; Open Water Body >200 >200 >200 >200 >200 >200; Possible Wet Area >100 >100 >100 >100 >100 >100; Drinking Water Well >100 >100 >100 >100 >100 >100; Drainageway >50 >50 >50 >50 >50 >50; Property Line >10 >10 >10 >10 >10 >10; Other (specify)

MOTTLING: Abundance — f: few, c: common, m: many; Size — f: fine, m: medium, c: coarse; Contrast — d: distinct, p: prominent

PERCOLATION TEST

Hole #	TP13	TP14	TP17
Depth of Perc (inches)	36	42	42
Start/Pre-Soak	9:05	10:45	11:42
Time at 1/2"	9:20	11:00	11:57
Time at 6"	9:30	11:10	12:00
Time at 6" (5 MIN.)	12:01	2:31	1:52
Time at 6"	27	15	4
Rate (MIN/inch)	1	1	1

ADDITIONAL TESTING NEEDED: AS REQUIRED.
COMMENTS: LOCATIONS TO BE VERIFIED.

SUITABLE: X X X X X X
UNSUITABLE:

DEP CERTIFIED SOIL EVALUATOR PRINTED: MICHAEL S. FARIA RI PE, MA SE708 SIGNED:

I CERTIFY THAT I AM CURRENTLY APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION PURSUANT TO 310 CMR 15.018 TO CONDUCT SOIL EVALUATIONS AND THAT THE ABOVE ANALYSES AND DATA WERE PERFORMED BY ME CONSISTENT WITH THE REQUIRED TRAINING, EXPERTISE AND EXPERIENCE DESCRIBED IN 310 CMR 15.017.
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Massachusetts City or Town: SEEKONK, MA

InSite Professional Engineers and Land Surveyors — 1539 Fall River Ave, Seekonk, MA 02771 — Phone: (508) 336-4500 — Fax: (508) 336-4558

NAME: WATERMELLEN, LLC — STREET: 25 NELSON AVENUE — TOWN: SEEKONK, MA 02771
CLIENT: 8-14-2012 — DATE: 8-14-2012 — SITE: INSITE JOB# 05-103 — STREET: BEHIND 820 ARCADE AVENUE
WEATHER: 87+ F SUN — MAP/LOT: A.P. 10/13/15 / LOTS 20,21,13,19,22,23 — REPAIR: — NEW: X
PHONE #: 508-984-1544 — MAP/LOT: A.P. 10/13/15 / LOTS 20,21,13,19,22,23 — SITE SKETCH: (SEE SUBDIVISION PLAN) (LOT 11)
PERFORMED BY: MICHAEL S. FARIA RI PE, MA SE708 — VEGETATION: WOODS — SITE SKETCH: (SEE SUBDIVISION PLAN)
WITNESSED BY: BETH HALLAL — LAND USE: FARM / RESIDENTIAL — DEPTH TO BEDROCK: NONE OBSERVED
EXCAVATION CO.: COSTA DEVELOPMENT, LLC — DEPTH TO BEDROCK: NONE OBSERVED
SURFACE STONES: STONE WALLS — SLOPE: 0-5% ±

DEEP OBSERVATION HOLE LOG

Deep Hole #	Depth from surface (inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (munsell)	Soil Mottling (inches) Concentration Color	Other (Structure, Stones, Consistency, % Gravel)
TP19	0-4	Ap	SANDY LOAM	10YR3/2		VERY FRIABLE TO LOOSE
8/30/2011	4-18	B	LOAMY SAND	10YR5/6		LOOSE, + 50 % GRAVEL
	18-120	C	FINE MEDIUM CORSE SAND	10YR5/1	60" 7.5YR5/8	LOOSE, STRATIFIED, + 50 % GRAVEL
TP20	0-4	Ap	SANDY LOAM	10YR3/2		VERY FRIABLE TO LOOSE
8/30/2011	4-18	B	LOAMY SAND	10YR5/6		LOOSE, + 50 % GRAVEL
	18-120	C	FINE MEDIUM CORSE SAND	10YR5/1	60" 7.5YR5/8	LOOSE, STRATIFIED, + 50 % GRAVEL
TP21	0-4	Ap	SANDY LOAM	10YR3/2		VERY FRIABLE TO LOOSE
8/30/2011	4-18	B	LOAMY SAND	10YR5/6		LOOSE, + 50 % GRAVEL
	18-120	C	FINE MEDIUM CORSE SAND	10YR5/1	60" 7.5YR5/8	LOOSE, STRATIFIED, + 50 % GRAVEL
TP22	0-4	Ap	SANDY LOAM	10YR3/2		VERY FRIABLE TO LOOSE
8/30/2011	4-30	B	LOAMY SAND	10YR5/6		LOOSE, + 50 % GRAVEL
	30-120	C	FINE MEDIUM CORSE SAND	10YR5/1	60" 7.5YR5/8	LOOSE, STRATIFIED, + 50 % GRAVEL

DISTANCES FROM (ft.) APPROXIMATE (VERIFY): Hole # TP19 TP20 TP21 TP22; Open Water Body >200 >200 >200 >200; Possible Wet Area >100 >100 >100 >100; Drinking Water Well >100 >100 >100 >100; Drainageway >50 >50 >50 >50; Property Line >10 >10 >10 >10; Other (specify)

MOTTLING: Abundance — f: few, c: common, m: many; Size — f: fine, m: medium, c: coarse; Contrast — d: distinct, p: prominent

PERCOLATION TEST

Hole #	TP19	TP21
Depth of Perc (inches)	50	50
Start/Pre-Soak	9:28	9:06
Time at 1/2"	9:41	9:41
Time at 1"	9:44	9:43
Time at 6"	9:49	9:47
Rate (MIN/inch)	<2	2

ADDITIONAL TESTING NEEDED: NO
COMMENTS: NONE

SUITABLE: X X X X
UNSUITABLE:

DEP CERTIFIED SOIL EVALUATOR PRINTED: MICHAEL S. FARIA RI PE, MA SE708 SIGNED:

I CERTIFY THAT I AM CURRENTLY APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION PURSUANT TO 310 CMR 15.018 TO CONDUCT SOIL EVALUATIONS AND THAT THE ABOVE ANALYSES AND DATA WERE PERFORMED BY ME CONSISTENT WITH THE REQUIRED TRAINING, EXPERTISE AND EXPERIENCE DESCRIBED IN 310 CMR 15.017.
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InSite Professional Engineers and Land Surveyors — 1539 Fall River Ave, Seekonk, MA 02771 — Phone: (508) 336-4500 — Fax: (508) 336-4558

NAME: WATERMELLEN, LLC — STREET: 25 NELSON AVENUE — TOWN: SEEKONK, MA 02771
CLIENT: 8-20-2012 — DATE: 8-20-2012 — SITE: INSITE JOB# 05-103 — STREET: BEHIND 820 ARCADE AVENUE
WEATHER: 87+ F SUN — MAP/LOT: A.P. 10/13/15 / LOTS 20,21,13,19,22,23 — REPAIR: — NEW: X
PHONE #: 508-984-1544 — MAP/LOT: A.P. 10/13/15 / LOTS 20,21,13,19,22,23 — SITE SKETCH: (SEE SUBDIVISION PLAN) (LOT 7)
PERFORMED BY: MICHAEL S. FARIA RI PE, MA SE708 — VEGETATION: WOODS — SITE SKETCH: (SEE SUBDIVISION PLAN)
WITNESSED BY: BETH HALLAL — LAND USE: FARM / RESIDENTIAL — DEPTH TO BEDROCK: NONE OBSERVED
EXCAVATION CO.: COSTA DEVELOPMENT, LLC — DEPTH TO BEDROCK: NONE OBSERVED
SURFACE STONES: STONE WALLS — SLOPE: 0-5% ±

DEEP OBSERVATION HOLE LOG

Deep Hole #	Depth from surface (inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (munsell)	Soil Mottling (inches) Concentration Color	Other (Structure, Stones, Consistency, % Gravel)
TP23	0-12	Ap	SANDY LOAM	10YR3/2		VERY FRIABLE TO LOOSE
8/30/2011	12-24	B	LOAMY SAND	10YR5/6		LOOSE, + 50 % COBBLES
	24-120	C	FINE MEDIUM CORSE SAND	10YR5/1	48" 7.5YR5/8	LOOSE, STRATIFIED, + 50 % COBBLES
TP24	0-8	Ap	SANDY LOAM	10YR3/2		VERY FRIABLE TO LOOSE
8/30/2011	8-30	B	LOAMY SAND	10YR5/6		LOOSE, + 50 % COBBLES
	30-120	C	LOAMY SAND	10YR5/1	48" 7.5YR5/8	LOOSE, STRATIFIED, + 50 % COBBLES

DISTANCES FROM (ft.) APPROXIMATE (VERIFY): Hole # TP23 TP24; Open Water Body >200 >200; Possible Wet Area >100 >100; Drinking Water Well >100 >100; Drainageway >50 >50; Property Line >10 >10; Other (specify)

MOTTLING: Abundance — f: few, c: common, m: many; Size — f: fine, m: medium, c: coarse; Contrast — d: distinct, p: prominent

PERCOLATION TEST

Hole #	TP23	TP24
Depth of Perc (inches)	48	52
Start/Pre-Soak	11:27	12:04
Time at 1/2"	11:42	12:19
Time at 1"	11:45	12:22
Time at 6"	11:50	12:33
Time at 6" (5 MIN.)	5	11
Rate (MIN/inch)	<2	4

ADDITIONAL TESTING NEEDED: NO
COMMENTS: NONE

SUITABLE: X X X X
UNSUITABLE:

DEP CERTIFIED SOIL EVALUATOR PRINTED: MICHAEL S. FARIA RI PE, MA SE708 SIGNED:

I CERTIFY THAT I AM CURRENTLY APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION PURSUANT TO 310 CMR 15.018 TO CONDUCT SOIL EVALUATIONS AND THAT THE ABOVE ANALYSES AND DATA WERE PERFORMED BY ME CONSISTENT WITH THE REQUIRED TRAINING, EXPERTISE AND EXPERIENCE DESCRIBED IN 310 CMR 15.017.
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NAME: WATERMELLEN, LLC — STREET: 25 NELSON AVENUE — TOWN: SEEKONK, MA 02771
CLIENT: 8-20-2012 — DATE: 8-20-2012 — SITE: INSITE JOB# 05-103 — STREET: BEHIND 820 ARCADE AVENUE
WEATHER: 87+ F SUN — MAP/LOT: A.P. 10/13/15 / LOTS 20,21,13,19,22,23 — REPAIR: — NEW: X
PHONE #: 508-984-1544 — MAP/LOT: A.P. 10/13/15 / LOTS 20,21,13,19,22,23 — SITE SKETCH: (SEE SUBDIVISION PLAN) (LOT 8)
PERFORMED BY: MICHAEL S. FARIA RI PE, MA SE708 — VEGETATION: WOODS — SITE SKETCH: (SEE SUBDIVISION PLAN)
WITNESSED BY: BETH HALLAL — LAND USE: FARM / RESIDENTIAL — DEPTH TO BEDROCK: NONE OBSERVED
EXCAVATION CO.: COSTA DEVELOPMENT, LLC — DEPTH TO BEDROCK: NONE OBSERVED
SURFACE STONES: STONE WALLS — SLOPE: 0-5% ±

DEEP OBSERVATION HOLE LOG

Deep Hole #	Depth from surface (inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (munsell)	Soil Mottling (inches) Concentration Color	Other (Structure, Stones, Consistency, % Gravel)
TP25	0-6	Ap	SANDY LOAM	10YR3/2		VERY FRIABLE TO LOOSE
8/30/2011	6-24	B	LOAMY SAND	10YR5/6		LOOSE, + 50 % GRAVEL
	24-120	C	FINE MEDIUM CORSE SAND	10YR5/1	60" 7.5YR5/8	LOOSE, STRATIFIED, + 50 % GRAVEL
TP26	0-6	Ap	SANDY LOAM	10YR3/2		VERY FRIABLE TO LOOSE
8/30/2011	6-24	B	LOAMY SAND	10YR5/6		LOOSE, + 50 % GRAVEL
	24-120	C	FINE MEDIUM CORSE SAND	10YR5/1	60" 7.5YR5/8	LOOSE, STRATIFIED, + 50 % GRAVEL
TP27	0-6	Ap	SANDY LOAM	10YR3/2		VERY FRIABLE TO LOOSE
8/30/2011	6-24	B	LOAMY SAND	10YR5/6		LOOSE, + 50 % GRAVEL
	24-120	C	FINE MEDIUM CORSE SAND	10YR5/1	60" 7.5YR5/8	LOOSE, STRATIFIED, + 50 % GRAVEL
TP28	0-6	Ap	SANDY LOAM	10YR3/2		VERY FRIABLE TO LOOSE
8/30/2011	6-24	B	LOAMY SAND	10YR5/6		LOOSE, + 50 % GRAVEL
	24-120	C	FINE MEDIUM CORSE SAND	10YR5/1	60" 7.5YR5/8	LOOSE, STRATIFIED, + 50 % GRAVEL

DISTANCES FROM (ft.) APPROXIMATE (VERIFY): Hole # TP25 TP26 TP27 TP28; Open Water Body >200 >200 >200 >200; Possible Wet Area >100 >100 >100 >100; Drinking Water Well >100 >100 >100 >100; Drainageway >50 >50 >50 >50; Property Line >10 >10 >10 >10; Other (specify)

MOTTLING: Abundance — f: few, c: common, m: many; Size — f: fine, m: medium, c: coarse; Contrast — d: distinct, p: prominent

PERCOLATION TEST

Hole #	TP25	TP26
Depth of Perc (inches)	56	60
Start/Pre-Soak	12:51	1:07
Time at 1/2"	1:06	1:22
Time at 1"	1:10	1:26
Time at 6"	1:23	1:33
Time at 6" (5 MIN.)	13	7
Rate (MIN/inch)	2	1

ADDITIONAL TESTING NEEDED: NO
COMMENTS: NONE

SUITABLE: X X X X
UNSUITABLE:

DEP CERTIFIED SOIL EVALUATOR PRINTED: MICHAEL S. FARIA RI PE, MA SE708 SIGNED:

I CERTIFY THAT I AM CURRENTLY APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION PURSUANT TO 310 CMR 15.018 TO CONDUCT SOIL EVALUATIONS AND THAT THE ABOVE ANALYSES AND DATA WERE PERFORMED BY ME CONSISTENT WITH THE REQUIRED TRAINING, EXPERTISE AND EXPERIENCE DESCRIBED IN 310 CMR 15.017.
I FURTHER CERTIFY THAT THE RESULTS OF MY SOIL EVALUATION, AS INDICATED ON THIS SOIL EVALUATION FORM, ARE ACCURATE AND IN ACCORDANCE TO 310 CMR 15.017.

Page ___ of ___

Modified DEP Forms 11 & 12 - Soil Suitability Assessment & Percolation Test for On-Site Sewage Disposal
Massachusetts City or Town: SEEKONK, MA

InSite Professional Engineers and Land Surveyors — 1539 Fall River Ave, Seekonk, MA 02771 — Phone: (508) 336-4500 — Fax: (508) 336-4558

NAME: WATERMELLEN, LLC — STREET: 25 NELSON AVENUE — TOWN: SEEKONK, MA 02771
CLIENT: 3-12-2013 — DATE: 3-12-2013 — SITE: INSITE JOB# 05-103 — STREET: BEHIND 820 ARCADE AVENUE
WEATHER: 47+ F CLOUDY — MAP/LOT: A.P. 10/13/15 / LOTS 20,21,13,19,22,23 — REPAIR: — NEW: X
PHONE #: 508-984-1544 — MAP/LOT: A.P. 10/13/15 / LOTS 20,21,13,19,22,23 — SITE SKETCH: (SEE SUBDIVISION PLAN) (LOT 12)
PERFORMED BY: MICHAEL S. FARIA RI PE, MA SE708 — VEGETATION: WOODS — SITE SKETCH: (SEE SUBDIVISION PLAN)
WITNESSED BY: BETH HALLAL — LAND USE: FARM / RESIDENTIAL — DEPTH TO BEDROCK: NONE OBSERVED
EXCAVATION CO.: COSTA DEVELOPMENT, LLC — DEPTH TO BEDROCK: NONE OBSERVED
SURFACE STONES: STONE WALLS — SLOPE: 0-5% ±

DEEP OBSERVATION HOLE LOG

Deep Hole #	Depth from surface (inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (munsell)	Soil Mottling (inches) Concentration Color	Other (Structure, Stones, Consistency, % Gravel)
TP 1-1	0-6	Ap	LOAMY SANDY/GRAVEL	10YR3/2		VERY FRIABLE TO LOOSE
	6-24	B	LOAMY SAND	10YR5/6		LOOSE, + 50 % GRAVEL
3/12/2013	24-120	C	COARSE SAND	10YR6/2	48" 7.5YR5/8	LOOSE, STRAT. + 50 % GRAVEL & COB.
TP 1-2	0-6	Ap	LOAMY SANDY/GRAVEL	10YR3/2		VERY FRIABLE TO LOOSE
	6-24	B	LOAMY SAND	10YR5/6		LOOSE, + 50 % GRAVEL
3/12/2013	24-120	C	COARSE SAND	10YR6/2	60" 7.5YR5/8	LOOSE, STRAT. + 50 % GRAVEL & COB.
TP 1-3	0-6	Ap	LOAMY SANDY/GRAVEL	10YR3/2		VERY FRIABLE TO LOOSE
	6-24	B	LOAMY SAND	10YR5/6		LOOSE, + 50 % GRAVEL
3/12/2013	24-120	C	COARSE SAND	10YR6/2	60" 7.5YR5/8	LOOSE, STRAT. + 50 % GRAVEL & COB.
TP 1-4	0-6	Ap	LOAMY SANDY/GRAVEL	10YR3/2		VERY FRIABLE TO LOOSE
	6-24	B	LOAMY SAND	10YR5/6		LOOSE, + 50 % GRAVEL
3/12/2013	24-120	C	COARSE SAND	10YR6/2	60" 7.5YR5/8	LOOSE, STRAT. + 50 % GRAVEL & COB.

DISTANCES FROM (ft.) APPROXIMATE (VERIFY): Hole # 1-1 1-2 1-3 1-4; Open Water Body >200 >200 >200 >200; Possible Wet Area >100 >100 >100 >100; Drinking Water Well >100 >100 >100 >100; Drainageway >50 >50 >50 >50; Property Line >10 >10 >10 >10; Other (specify)

MOTTLING: Abundance — f: few, c: common, m: many; Size — f: fine, m: medium, c: coarse; Contrast — d: distinct, p: prominent

PERCOLATION TEST

Hole #	TP1-2	TP1-3
Depth of Perc (inches)	48	48
Start/Pre-Soak	10:32	11:57
Time at 1/2"	24 G	10:53
Time at 1"	< 15	10:56
Time at 6"	MIN.	11:05
Time (12"-6"-6") (Min)	6	7
Rate (MIN/inch)	<2	<2

ADDITIONAL TESTING NEEDED: NO
COMMENTS: USE 36" MINIMUM REMOVAL FOR LEACH FIELD

SUITABLE: X X X X
UNSUITABLE:

DEP CERTIFIED SOIL EVALUATOR PRINTED: MICHAEL S. FARIA RI PE, MA SE708 SIGNED:

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PHONE #: 508-984-1544 — MAP/LOT: A.