

Appendix I
Questionnaire Data

SURVEY FOR THE DEVELOPMENT OF PUBLIC WATER TOWN OF STERLING

Dear Neighbors:

The Town Board is trying to obtain information to determine if there is need for future water service areas. This survey was prepared to assist the engineers and the Town Board with the statistics needed. Please try to answer the questions below and then sign in the space indicating your choice (pro or con) for the development of Public Water. If there is demonstrated support for a project, the Town will use the compiled results to apply for State and Federal Grant and Low Interest Loan money to construct an affordable project. The survey results will be utilized by the Engineers involved in order to recommend potential project areas to consider.



It is important to determine where problems exist in the area in which you live and whether sufficient interest exists to secure outside funding for expanding the supply of public water. **This information does not commit you either way.**

Thank you!

Town Board

SURVEY QUESTIONS (Please use a pen)

1. Type of well: Drilled Dug Other
2. Number of wells: 1 2 3
3. Depth of well or wells: (26') feet feet feet
4. Recovery time of the well or wells is/ are:
 good poor has changed
if changed: more less
5. Has/Have the well/wells ever been contaminated? yes ^p no
6. If yes to #5, state type of contamination of well or wells:
WINTER & SUMMER ROAD RUN OFF GOES INTO WELL -
SNOW PLANS COVER WELL & SUMMER TRAIL RUN IN ALSO
7. Has the contamination been corrected?
 yes no have installed a system or filter to correct
8. The taste of the water is: good poor tastes like AND S.P.E. 113
MUST
9. The clarity of the water is: clear cloudy changes with increased use

Please complete both sides!

Your input is valuable!

- 0. The water causes discoloration of: sinks/toilets clothes never
- 1. The water has caused deterioration of: plumbing hot water heaters
 hot water heating systems filtering systems
- 2. Do you practice water conservation? always never occasionally
- 3. Do you purchase or obtain drinking water from another source? yes no
- 4. Has a well or wells ever gone dry? frequently occasionally never
- 5. How long has the problem existing? years (how many 20*) occasionally
- 6. Do you do laundry at home? always occasionally never
- 7. Are you able to flush the toilet with each use? yes no
- 8. Have you ever had bulk delivery of water? always occasionally never
- 9. Are you concerned about fire protection? yes no

COMMENTS:

I BOIL WATER ON & OFF ALL SUMMER. CITY WATER IS LONG OVER DUE. WE NEED & WANT IT NOW.

Please sign in appropriate area.

I am in favor of the development of a water district on my road.

Signature _____ Date 5-29-13

I am against the development of a water district on my road.

Signature _____ Date _____

NAME _____

ADDRESS _____

PHONE _____

RECEIVED

JUN 03 2013

Please complete both sides!

Capital Construction, Inc., P.C.
C2&C

Your input is valuable!

- 10. The water causes discoloration of: sinks/toilets () clothes () never
- 11. The water has caused deterioration of: hot water heating systems plumbing hot water heaters
() filtering systems
- 12. Do you practice water conservation? always () never () occasionally
- 13. Do you purchase or obtain drinking water from another source? () yes no
- 14. Has a well or wells ever gone dry? () frequently occasionally () never
- 15. How long has the problem existing? () years (how many ___) () occasionally
- 16. Do you do laundry at home? always () occasionally () never
- 17. Are you able to flush the toilet with each use? yes () no
- 18. Have you ever had bulk delivery of water? () always () occasionally never
- 19. Are you concerned about fire protection? () yes () no

COMMENTS:

Please sign in appropriate area.

I am in favor of the development of a water district on my road.

Signature _____ Date 5/15/13

I am against the development of a water district on my road.

Signature _____ Date _____

NAME _____

ADDRESS _____ 548 _____

PHONE _____

Please complete both sides!

Your input is valuable!

SURVEY FOR THE DEVELOPMENT OF PUBLIC WATER TOWN OF STERLING

Dear Neighbors:

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It is important to determine where problems exist in the area in which you live and whether sufficient interest exists to secure outside funding for expanding the supply of public water. **This information does not commit you either way.**

Thank you!

Town Board

SURVEY QUESTIONS (Please use a pen)

1. Type of well: Drilled Dug Other
2. Number of wells: 1 2 3
3. Depth of well or wells: (?) feet feet feet
4. Recovery time of the well or wells is/ are:
 good poor has changed
if changed: more less
5. Has/Have the well/wells ever been contaminated? yes no
6. If yes to #5, state type of contamination of well or wells:
animal
7. Has the contamination been corrected?
 yes no have installed a system or filter to correct
8. The taste of the water is: good poor tastes like _____
9. The clarity of the water is: clear cloudy changes with increased use

Please complete both sides!

Your input is valuable!

**SURVEY FOR THE DEVELOPMENT OF PUBLIC WATER
TOWN OF STERLING**

Dear Neighbors:

The Town Board is trying to obtain information to determine if there is need for future water service areas. This survey was prepared to assist the engineers and the Town Board with the statistics needed. Please try to answer the questions below and then sign in the space indicating your choice (pro or con) for the development of Public Water. If there is demonstrated support for a project, the Town will use the compiled results to apply for State and Federal Grant and Low Interest Loan money to construct an affordable project. The survey results will be utilized by the Engineers involved in order to recommend potential project areas to consider.



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Thank you!

Town Board

**SURVEY QUESTIONS
(Please use a pen)**

1. Type of well: () Drilled () Dug () Other
2. Number of wells: () 1 () 2 () 3
3. Depth of well or wells: () 12 feet () feet () feet
4. Recovery time of the well or wells is/ are:
 () good () poor () has changed
 if changed: () more () less
5. Has/Have the well/wells ever been contaminated? () yes () no
6. If yes to #5, state type of contamination of well or wells:

7. Has the contamination been corrected?
 () yes () no () have installed a system or filter to correct
8. The taste of the water is: () good () poor () tastes like _____
9. The clarity of the water is: () clear () cloudy () changes with increased use

Please complete both sides!

Your input is valuable!

- 10. The water causes discoloration of: sinks/toilets () clothes never
- 11. The water has caused deterioration of: () plumbing () hot water heaters
() hot water heating systems () filtering systems
- 12. Do you practice water conservation? always () never () occasionally
- 13. Do you purchase or obtain drinking water from another source? () yes no
- 14. Has a well or wells ever gone dry? () frequently occasionally () never
- 15. How long has the problem existing? (7) years (how many 3) () occasionally
- 16. Do you do laundry at home? always () occasionally () never
- 17. Are you able to flush the toilet with each use? yes () no
- 18. Have you ever had bulk delivery of water? () always occasionally () never
- 19. Are you concerned about fire protection? yes () no

COMMENTS:

Please sign in appropriate area.

I am in favor of the development of a water district on my road.

Signature _____ Date 4-25-13

I am against the development of a water district on my road.

Signature _____ Date _____

NAME _____

ADDRESS _____

PHONE _____

Please complete both sides!

Your input is valuable!

**SURVEY FOR THE DEVELOPMENT OF PUBLIC WATER
TOWN OF STERLING**

357

Dear Neighbors:

The Town Board is trying to obtain information to determine if there is need for future water service areas. This survey was prepared to assist the engineers and the Town Board with the statistics needed. Please try to answer the questions below and then sign in the space indicating your choice (pro or con) for the development of Public Water. If there is demonstrated support for a project, the Town will use the compiled results to apply for State and Federal Grant and Low Interest Loan money to construct an affordable project. The survey results will be utilized by the Engineers involved in order to recommend potential project areas to consider.



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Thank you!

Town Board

**SURVEY QUESTIONS
(Please use a pen)**

1. Type of well: () Drilled () Dug () Other
2. Number of wells: () 1 () 2 () 3
3. Depth of well or wells: () 15) feet () feet () feet
4. Recovery time of the well or wells is/ are:
 () good () poor () has changed *can use usually only*
 if changed: () more () less *through Dec - April*
5. Has/Have the well/wells ever been contaminated? () yes () no
6. If yes to #5, state type of contamination of well or wells:
 _____ *not been tested*

7. Has the contamination been corrected?
 () yes () no () have installed a system or filter to correct
8. The taste of the water is: () good () poor () tastes like *do not drink*
9. The clarity of the water is: () clear () cloudy () changes with increased use

Please complete both sides!

Your input is valuable!

10. The water causes discoloration of: () sinks/toilets () clothes (X) never
11. The water has caused deterioration of: (X) plumbing (X) hot water heaters
(A) hot water heating systems (X) filtering systems *well water is very hard*
12. Do you practice water conservation? (X) always () never () occasionally *hard*
13. Do you purchase or obtain drinking water from another source? (X) yes () no
14. Has a well or wells ever gone dry? (X) frequently () occasionally () never
15. How long has the problem ^{existed} existing? (X) years (how many 6) () occasionally
16. Do you do laundry at home? (X) always () occasionally () never
17. Are you able to flush the toilet with each use? () yes (X) no
18. Have you ever had bulk delivery of water? () always () occasionally (A) never
19. Are you concerned about fire protection? (X) yes () no

COMMENTS:

*We draw water from a nearby hydrant-
which we are thankful for, but it costs
\$112 per month, plus I have to have a
heavy-duty truck to draw water - very inconvenient.*

Please sign in appropriate area.

I am **in favor** of the development of a water district on my road.

Signature _____ Date 4/8/13

I am **against** the development of a water district on my road.

Signature _____ Date _____

NAME _____

ADDRESS 357 _____

PHONE _____

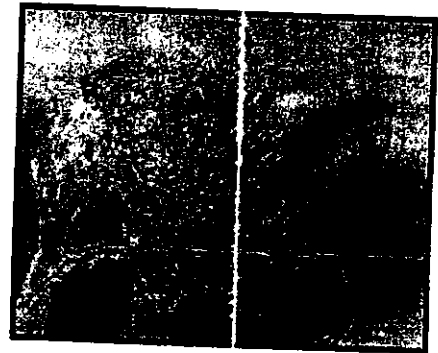
Please complete both sides!

Your input is valuable!

SURVEY FOR THE DEVELOPMENT OF PUBLIC WATER TOWN OF STERLING

Dear Neighbors:

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Thank you!

Town Board

SURVEY QUESTIONS (Please use a pen)

1. Type of well: Drilled () Dug () Other
2. Number of wells: 1 () 2 () 3
3. Depth of well or wells: (218) feet () feet () feet
4. Recovery time of the well or wells is/ are:
 () good () poor has changed
 if changed: () more less
5. Has/Have the well/wells ever been contaminated? yes () no
6. If yes to #5, state type of contamination of well or wells:
 _____ *The well periodically had iron*
 _____ *bacteria build-up. Is silty &*
 _____ *sulfury, plus other or not necessary*
7. Has the contamination been corrected?
 () yes no () have installed a system or filter to correct *stopped using it*
8. The taste of the water is: () good poor tastes like *salt & sulfur*
9. The clarity of the water is: () clear () cloudy changes with increased use

Please complete both sides!

Your input is valuable!

- 10. The water causes discoloration of: () sinks/toilets () clothes () never
- 11. The water ~~has~~ caused deterioration of: () hot water heating systems () plumbing () hot water heaters () filtering systems
- 12. Do you practice water conservation? () always () never () occasionally
- 13. Do you purchase or obtain drinking water from another source? () yes () no
- 14. Has a well or wells ever gone dry? () frequently () occasionally () never
- 15. How long has the problem ^{existed} existing? () years (how many 15) () occasionally
- 16. Do you do laundry at home? () always () occasionally () never
- 17. Are you able to flush the toilet with each use? () yes () no
- 18. Have you ever had bulk delivery of water? () always () occasionally () never
- 19. Are you concerned about fire protection? () yes () no

COMMENTS: I have separated information regarding the drilled well & the dug well. We have not used the drilled well for over 15 years & Castic Well Drilling does NOT recommend drilling another well.

Please sign in appropriate area.

I am in favor of the development of a water district on my road.

Signature _____ Date 4/8/13

I am against the development of a water district on my road.

Signature _____ Date _____

NAME _____

ADDRESS _____

PHONE _____

Please complete both sides!

Your input is valuable!

without the multiple systems I have the H₂O

- 10. The water causes discoloration of: () sinks/toilets () clothes () never
- 11. The water has caused deterioration of: () plumbing () hot water heaters (X) filtering systems () hot water heating systems
- 12. Do you practice water conservation? (X) always () never () occasionally
- 13. Do you purchase or obtain drinking water from another source? () yes (X) no
- 14. Has a well or wells ever gone dry? () frequently (X) occasionally () never
- 15. How long has the problem existing? (3) years (how many _____) () occasionally
 ↳ my house is a new house (2 1/2 years old)
- 16. Do you do laundry at home? () always () occasionally () never
- 17. Are you able to flush the toilet with each use? () yes (X) no
- 18. Have you ever had bulk delivery of water? () always (X) occasionally () never
- 19. Are you concerned about fire protection? (X) yes () no

COMMENTS: I am a disabled professional firefighter so I know first hand the importance of having hydrants. It also helps the town & homes in a water district in having insurance coverage.

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____ Date 4-10-13

I am **against** the development of a water district on my road.

Signature _____ Date _____

NAME _____

ADDRESS 339 _____

PHONE _____

Please complete both sides!

Your input is valuable!

Informational Water Quality Report

Watercheck w/PO

**National Testing
Laboratories, Ltd.**

Quality Water Analysis

6571 Wilson Mills Rd
Cleveland, Ohio 44143
1-800-458-3330

Ordered By:

Finger Lakes Water Cond.
822 State Fair Blvd, Suite 200
Syracuse, NY 13209
ATTN: Shirley Shirley

Sample Number: 818075

Location:

Type of Water: Well Water
Collection Date and Time: 3/2/2011 09:30
Received Date and Time: 3/3/2011 11:45
Date Completed: 3/15/2011

Definition and Legend

This informational water quality report compares the actual test result to national standards as defined in the EPA's Primary and Secondary Drinking Water Regulations.

Primary Standards: Are expressed as the maximum contaminant level (MCL) which is the highest level of contaminant that is allowed in drinking water. MCLs are enforceable standards.

Secondary standards: Are non-enforceable guidelines regulating contaminants that may cause cosmetic effects (such as skin or tooth discoloration) or aesthetic effects (such as taste, odor, or color) in drinking water. Individual states may choose to adopt them as enforceable standards.

Action levels: Are defined in treatment techniques which are required processes intended to reduce the level of a contaminant in drinking water.

mg/L (ppm): Unless otherwise indicated, results and standards are expressed as an amount in milligrams per liter or parts per million.

Minimum Detection Level (MDL): The lowest level that the laboratory can detect a contaminant.

ND: The contaminant was not detected above the minimum detection level.

NA: The contaminant was not analyzed.

✓ The contaminant was not detected in the sample above the minimum detection level.

● The contaminant was detected at or above the minimum detection level, but not above the referenced standard.

△ The contaminant was detected above the standard, which is not an EPA enforceable MCL.

⊕ The contaminant was detected above the EPA enforceable MCL.

⊗ These results may be invalid.

Goald's pump Model J55h C48A9110
R1 M3450

Status	Contaminant	Results	Units	National Standards	Min. Detection Level
Microbiologicals					
✓	Total Coliform by P/A	Total Coliform bacteria was ABSENT in this sample.			
Inorganic Analytes - Metals					
△	Aluminum	1.0	mg/L	0.2 EPA Secondary	0.1
+	Arsenic	0.032	mg/L	0.01 EPA Primary	0.005
●	Barium	0.37	mg/L	2 EPA Primary	0.30
✓	Cadmium	ND	mg/L	0.005 EPA Primary	0.002
●	Calcium	5.5	mg/L	--	2.0
✓	Chromium	ND	mg/L	0.1 EPA Primary	0.010
●	Copper	0.006	mg/L	1.3 EPA Action Level	0.004
△	Iron	2.408	mg/L	0.3 EPA Secondary	0.020
✓	Lead	ND	mg/L	0.015 EPA Action Level	0.002
●	Magnesium	1.30	mg/L	--	0.10
●	Manganese	0.018	mg/L	0.05 EPA Secondary	0.004
✓	Mercury	ND	mg/L	0.002 EPA Primary	0.001
✓	Nickel	ND	mg/L	--	0.020
●	Potassium	8.4	mg/L	--	1.0
✓	Selenium	ND	mg/L	0.05 EPA Primary	0.020
●	Silica	10.800	mg/L	--	0.100
✓	Silver	ND	mg/L	--	0.002
●	Sodium	288	mg/L	--	1
●	Zinc	0.008	mg/L	5 EPA Secondary	0.004
Physical Factors					
●	Alkalinity (Total)	220	mg/L	--	20
●	Hardness	19	mg/L	100 NTL Internal	10
✓	pH	8.0	pH Units	6.5 to 8.5 EPA Secondary	
△	Total Dissolved Solids	730	mg/L	500 EPA Secondary	20
△	Turbidity	54.0	NTU	1 EPA Action Level	0.1

Status	Contaminant	Results	Units	National Standards	Min. Detection Level
Inorganic Analytes - Other					
△	Chloride	260.0	mg/L	250	EPA Secondary 5.0
●	Fluoride	1.1	mg/L	4	EPA Primary 0.5
✓	Nitrate as N	ND	mg/L	10	EPA Primary 0.5
✓	Nitrite as N	ND	mg/L	1	EPA Primary 0.5
✓	Ortho Phosphate	ND	mg/L	--	2.0
●	Sulfate	23.0	mg/L	250	EPA Secondary 5.0
Organic Analytes - Trihalomethanes					
✓	Bromodichloromethane	ND	mg/L	--	0.002
✓	Bromoform	ND	mg/L	--	0.004
✓	Chloroform	ND	mg/L	--	0.002
✓	Dibromochloromethane	ND	mg/L	--	0.004
✓	Total THMs	ND	mg/L	0.08	EPA Primary 0.002
Organic Analytes - Volatiles					
✓	1,1,1,2-Tetrachloroethane	ND	mg/L	--	0.002
✓	1,1,1-Trichloroethane	ND	mg/L	0.2	EPA Primary 0.001
✓	1,1,2,2-Tetrachloroethane	ND	mg/L	--	0.002
✓	1,1,2-Trichloroethane	ND	mg/L	0.005	EPA Primary 0.002
✓	1,1-Dichloroethane	ND	mg/L	--	0.002
✓	1,1-Dichloroethene	ND	mg/L	0.007	EPA Primary 0.001
✓	1,1-Dichloropropene	ND	mg/L	--	0.002
✓	1,2,3-Trichlorobenzene	ND	mg/L	--	0.002
✓	1,2,3-Trichloropropane	ND	mg/L	--	0.002
✓	1,2,4-Trichlorobenzene	ND	mg/L	0.07	EPA Primary 0.002
✓	1,2-Dichlorobenzene	ND	mg/L	0.6	EPA Primary 0.001
✓	1,2-Dichloroethane	ND	mg/L	0.005	EPA Primary 0.001
✓	1,2-Dichloropropane	ND	mg/L	0.005	EPA Primary 0.002
✓	1,3-Dichlorobenzene	ND	mg/L	--	0.001

Status	Contaminant	Results	Units	National Standards	Min. Detection Level
✓	1,3-Dichloropropane	ND	mg/L	--	0.002
✓	1,4-Dichlorobenzene	ND	mg/L	0.075 EPA Primary	0.001
✓	2,2-Dichloropropane	ND	mg/L	--	0.002
✓	2-Chlorotoluene	ND	mg/L	--	0.001
✓	4-Chlorotoluene	ND	mg/L	--	0.001
✓	Acetone	ND	mg/L	--	0.01
✓	Benzene	ND	mg/L	0.005 EPA Primary	0.001
✓	Bromobenzene	ND	mg/L	--	0.002
✓	Bromomethane	ND	mg/L	--	0.002
✓	Carbon Tetrachloride	ND	mg/L	0.005 EPA Primary	0.001
✓	Chlorobenzene	ND	mg/L	0.1 EPA Primary	0.001
✓	Chloroethane	ND	mg/L	--	0.002
✓	Chloromethane	ND	mg/L	--	0.002
✓	cis-1,2-Dichloroethene	ND	mg/L	0.07 EPA Primary	0.002
✓	cis-1,3-Dichloropropene	ND	mg/L	--	0.002
✓	DBCP	ND	mg/L	--	0.001
✓	Dibromomethane	ND	mg/L	--	0.002
✓	Dichlorodifluoromethane	ND	mg/L	--	0.002
✓	Dichloromethane	ND	mg/L	0.005 EPA Primary	0.002
✓	EDB	ND	mg/L	--	0.001
✓	Ethylbenzene	ND	mg/L	0.7 EPA Primary	0.001
✓	Methyl Tert Butyl Ether	ND	mg/L	--	0.004
✓	Methyl-Ethyl Ketone	ND	mg/L	--	0.01
✓	Styrene	ND	mg/L	0.1 EPA Primary	0.001
✓	Tetrachloroethene	ND	mg/L	0.005 EPA Primary	0.002
✓	Tetrahydrofuran	ND	mg/L	--	0.01
✓	Toluene	ND	mg/L	1 EPA Primary	0.001
✓	trans-1,2-Dichloroethene	ND	mg/L	0.1 EPA Primary	0.002

Status	Contaminant	Results	Units	National Standards	Min. Detection Level
✓	trans-1,3-Dichloropropene	ND	mg/L	-	0.002
✓	Trichloroethene	ND	mg/L	0.005 EPA Primary	0.001
✓	Trichlorofluoromethane	ND	mg/L	-	0.002
✓	Vinyl Chloride	ND	mg/L	0.002 EPA Primary	0.001
✓	Xylenes (Total)	ND	mg/L	10 EPA Primary	0.001
Organic Analytes - Others					
✓	2,4-D	ND	mg/L	0.07 EPA Primary	0.010
✓	Alachlor	ND	mg/L	0.002 EPA Primary	0.001
✓	Aldrin	ND	mg/L	-	0.002
✓	Atrazine	ND	mg/L	0.003 EPA Primary	0.002
✓	Chlordane	ND	mg/L	0.002 EPA Primary	0.001
✓	Dichloran	ND	mg/L	-	0.002
✓	Dieldrin	ND	mg/L	-	0.001
✓	Endrin	ND	mg/L	0.002 EPA Primary	0.0001
✓	Heptachlor	ND	mg/L	0.0004 EPA Primary	0.0004
✓	Heptachlor Epoxide	ND	mg/L	0.0002 EPA Primary	0.0001
✓	Hexachlorobenzene	ND	mg/L	0.001 EPA Primary	0.0005
✓	Hexachlorocyclopentadiene	ND	mg/L	0.05 EPA Primary	0.001
✓	Lindane	ND	mg/L	0.0002 EPA Primary	0.0002
✓	Methoxychlor	ND	mg/L	0.04 EPA Primary	0.002
✓	PCB	ND	mg/L	0.0005 EPA Primary	0.0005
✓	Pentachloronitrobenzene	ND	mg/L	-	0.002
✓	Silvex 2,4,5-TP	ND	mg/L	0.05 EPA Primary	0.005
✓	Simazine	ND	mg/L	0.004 EPA Primary	0.002
✓	Toxaphene	ND	mg/L	0.003 EPA Primary	0.001
✓	Trifluralin	ND	mg/L	-	0.002

SURVEY FOR THE DEVELOPMENT OF PUBLIC WATER
TOWN OF STERLING

167

Dear Neighbors:

The Town Board is trying to obtain information to determine if there is need for future water service areas. This survey was prepared to assist the engineers and the Town Board with the statistics needed. Please try to answer the questions below and then sign in the space indicating your choice (pro or con) for the development of Public Water. If there is demonstrated support for a project, the Town will use the compiled results to apply for State and Federal Grant and Low Interest Loan money to construct an affordable project. The survey results will be utilized by the Engineers involved in order to recommend potential project areas to consider.



It is important to determine where problems exist in the area in which you live and whether sufficient interest exists to secure outside funding for expanding the supply of public water. This information does not commit you either way.

Thank you!

Town Board

SURVEY QUESTIONS
(Please use a pen)

1. Type of well: Drilled () Dug () Other
2. Number of wells: 1 () 2 () 3
3. Depth of well or wells: () feet () feet () feet
4. Recovery time of the well or wells is/ are:
 good () poor () has changed
 if changed: () more () less
5. Has/Have the well/wells ever been contaminated? () yes no
6. If yes to #5, state type of contamination of well or wells:

7. Has the contamination been corrected?
 () yes () no () have installed a system or filter to correct.
8. The taste of the water is: good () poor () tastes like _____
9. The clarity of the water is: clear () cloudy () changes with increased use

Please complete both sides!

Your input is valuable!

- 10. The water causes discoloration of: sinks/toilets () clothes ~~() never~~
- 11. The water has caused deterioration of: plumbing hot water heaters
~~() hot water heating systems~~ () filtering systems
- 12. Do you practice water conservation? always () never () occasionally
- 13. Do you purchase or obtain drinking water from another source? yes () no
- 14. Has a well or wells ever gone dry? () frequently occasionally () never
- 15. How long has the problem existing? years (how many 20) () occasionally
- 16. Do you do laundry at home? always () occasionally () never
- 17. Are you able to flush the toilet with each use? yes () no
- 18. Have you ever had bulk delivery of water? () always occasionally () never
- 19. Are you concerned about fire protection? yes () no

COMMENTS: We have hard water problems. Have replaced hot water tank 1-2 times. Hard water stains in toilet. It would be nice to have public water.

Please sign in appropriate area.

I am **in favor** of the development of a water district on my road.

Signature _____ Date 4/6/13

I am **against** the development of a water district on my road.

Signature _____ Date _____

NAME _____

ADDRESS 167 _____

PHONE 591-7897

Please complete both sides!

Your input is valuable!

- 10. The water causes discoloration of: () sinks/toilets () clothes (X) never
- 11. The water has caused deterioration of: () plumbing () hot water heaters X dishwasher
() hot water heating systems () filtering systems X humidifiers
- 12. Do you practice water conservation? (X) always () never () occasionally
- 13. Do you purchase or obtain drinking water from another source? () yes (X) no
- 14. Has a well or wells ever gone dry? () frequently (X) occasionally () never
- 15. How long has the problem existing? (X) years (how many 37) () occasionally
- 16. Do you do laundry at home? (X) always () occasionally () never
- 17. Are you able to flush the toilet with each use? (X) yes () no
- 18. Have you ever had bulk delivery of water? () always (X) occasionally () never
- 19. Are you concerned about fire protection? () yes (X) no

COMMENTS:

only problems in late summers or when we have a
higher than usual demand

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____ Date 4-5-13

I am **against** the development of a water district on my road.

Signature _____ Date _____

NAME _____ 164 _____

ADDRESS _____

PHONE _____

Please complete both sides!

Your input is valuable!

SURVEY FOR THE DEVELOPMENT OF PUBLIC WATER
TOWN OF STERLING

148

Dear Neighbors:

The Town Board is trying to obtain information to determine if there is need for future water service areas. This survey was prepared to assist the engineers and the Town Board with the statistics needed. Please try to answer the questions below and then sign in the space indicating your choice (pro or con) for the development of Public Water. If there is demonstrated support for a project, the Town will use the compiled results to apply for State and Federal Grant and Low Interest Loan money to construct an affordable project. The survey results will be utilized by the Engineers involved in order to recommend potential project areas to consider.



It is important to determine where problems exist in the area in which you live and whether sufficient interest exists to secure outside funding for expanding the supply of public water. This information does not commit you either way.

Thank you!

Town Board

SURVEY QUESTIONS
(Please use a pen)

1. Type of well: () Drilled (X) Dug () Other
2. Number of wells: (X) 1 () 2 () 3
3. Depth of well or wells: (24) feet () feet () feet
4. Recovery time of the well or wells is/ are:
 () good (X) poor () has changed
 if changed: () more () less
5. Has/Have the well/wells ever been contaminated? () yes () no
6. If yes to #5, state type of contamination of well or wells:

7. Has the contamination been corrected?
 () yes () no () have installed a system or filter to correct
8. The taste of the water is: () good (X) poor () tastes like _____
9. The clarity of the water is: () clear () cloudy (X) changes with increased use

Please complete both sides!

Your input is valuable!

10. The water causes discoloration of: sinks/toilets clothes never
11. The water has caused deterioration of: plumbing hot water heaters
 hot water heating systems filtering systems
12. Do you practice water conservation? always never occasionally
13. Do you purchase or obtain drinking water from another source? yes no
14. Has a well or wells ever gone dry? frequently occasionally never
15. How long has the problem existing? years (how many 25) occasionally
16. Do you do laundry at home? always occasionally never
17. Are you able to flush the toilet with each use? yes no
18. Have you ever had bulk delivery of water? always occasionally never
19. Are you concerned about fire protection? yes no

COMMENTS:

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____ Date 04/05/2013

I am **against** the development of a water district on my road.

Signature _____ Date _____

NAME _____

ADDRESS _____

PHONE _____

148

Please complete both sides!

Your input is valuable!

**SURVEY FOR THE DEVELOPMENT OF PUBLIC WATER
TOWN OF STERLING**

129

Dear Neighbors:

The Town Board is trying to obtain information to determine if there is need for future water service areas. This survey was prepared to assist the engineers and the Town Board with the statistics needed. Please try to answer the questions below and then sign in the space indicating your choice (pro or con) for the development of Public Water. If there is demonstrated support for a project, the Town will use the compiled results to apply for State and Federal Grant and Low Interest Loan money to construct an affordable project. The survey results will be utilized by the Engineers involved in order to recommend potential project areas to consider.



It is important to determine where problems exist in the area in which you live and whether sufficient interest exists to secure outside funding for expanding the supply of public water. **This information does not commit you either way.**

Thank you!

Town Board

**SURVEY QUESTIONS
(Please use a pen)**

1. Type of well: () Drilled (X) Dug () Other
2. Number of wells: (X) 1 () 2 () 3
3. Depth of well or wells: (/ 5) feet () feet () feet
4. Recovery time of the well or wells is/ are:
 () good () poor (X) has changed
 if changed: () more (X) less
5. Has/Have the well/wells ever been contaminated? () yes (X) no
6. If yes to #5, state type of contamination of well or wells:

7. Has the contamination been corrected?
 () yes () no () have installed a system or filter to correct
8. The taste of the water is: () good (X) poor () tastes like _____
9. The clarity of the water is: () clear (X) cloudy () changes with increased use

Please complete both sides!

Your input is valuable!

- 10. The water causes discoloration of: sinks/toilets () clothes () never
- 11. The water has caused deterioration of: plumbing hot water heaters
 filtering systems hot water heating systems
- 12. Do you practice water conservation? always () never () occasionally
- 13. Do you purchase or obtain drinking water from another source? yes () no
- 14. Has a well or wells ever gone dry? () frequently occasionally () never
- 15. How long has the problem existing? years (how many 15) () occasionally
- 16. Do you do laundry at home? () always occasionally () never
- 17. Are you able to flush the toilet with each use? () yes no
- 18. Have you ever had bulk delivery of water? () always occasionally () never
- 19. Are you concerned about fire protection? () yes no

COMMENTS: we installed a 1.2 gal flush toilet - low water shower head. our daughter takes her showers at her grandparents. we do not shower everyday.

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____ Date 2/6/13

I am **against** the development of a water district on my road.

Signature _____ Date _____

NAME _____

ADDRESS 129 _____

PHONE _____

Please complete both sides!

Your input is valuable!

- 10. The water causes discoloration of: () sinks/toilets () clothes () never
- 11. The water has caused deterioration of: () plumbing () hot water heaters
() hot water heating systems () filtering systems
- 12. Do you practice water conservation? (X) always () never () occasionally
- 13. Do you purchase or obtain drinking water from another source? () yes (X) no
- 14. Has a well or wells ever gone dry? () frequently (X) occasionally () never
- 15. How long has the problem existing? () years (how many _____) (X) occasionally
- 16. Do you do laundry at home? () always () occasionally (X) never
- 17. Are you able to flush the toilet with each use? () yes () no *hand pump*
- 18. Have you ever had bulk delivery of water? () always () occasionally (X) never
- 19. Are you concerned about fire protection? () yes (X) no

COMMENTS:

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____ Date 4/8/13

I am **against** the development of a water district on my road.

Signature _____ Date _____

NAME _____

ADDRESS _____

PHONE _____

Please complete both sides!

Your input is valuable!

34

SURVEY FOR THE DEVELOPMENT OF PUBLIC WATER TOWN OF STERLING

Dear Neighbors:

The Town Board is trying to obtain information to determine if there is need for future water service areas. This survey was prepared to assist the engineers and the Town Board with the statistics needed. Please try to answer the questions below and then sign in the space indicating your choice (pro or con) for the development of Public Water. If there is demonstrated support for a project, the Town will use the compiled results to apply for State and Federal Grant and Low Interest Loan money to construct an affordable project. The survey results will be utilized by the Engineers involved in order to recommend potential project areas to consider.



It is important to determine where problems exist in the area in which you live and whether sufficient interest exists to secure outside funding for expanding the supply of public water. **This information does not commit you either way.**

Thank you!

Town Board

SURVEY QUESTIONS (Please use a pen)

1. Type of well: Drilled Dug Other
2. Number of wells: 1 2 3
3. Depth of well or wells: feet feet feet
4. Recovery time of the well or wells is/ are:
 good poor has changed
if changed: more less
5. Has/Have the well/wells ever been contaminated? yes no
6. If yes to #5, state type of contamination of well or wells:

7. Has the contamination been corrected?
 yes no have installed a system or filter to correct
8. The taste of the water is: good poor tastes like _____
9. The clarity of the water is: clear cloudy changes with increased use

Please complete both sides!

Your input is valuable!

- 10. The water causes discoloration of: () sinks/toilets () clothes () never
- 11. The water has caused deterioration of: () plumbing () hot water heaters
() hot water heating systems () filtering systems
- 12. Do you practice water conservation? () always () never () occasionally
- 13. Do you purchase or obtain drinking water from another source? () yes () no
- 14. Has a well or wells ever gone dry? () frequently () occasionally () never
- 15. How long has the problem existing? () years (how many _____) () occasionally
- 16. Do you do laundry at home? () always () occasionally () never
- 17. Are you able to flush the toilet with each use? () yes () no
- 18. Have you ever had bulk delivery of water? () always () occasionally () never
- 19. Are you concerned about fire protection? () yes () no

COMMENTS: IT IS TIME FOR THE TOWN OF STEELING TO
UP DATE TO A WATER DISTRICT

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____ Date 4-11-13

I am **against** the development of a water district on my road.

Signature _____ Date _____

NAME _____

ADDRESS _____

PHONE _____

Please complete both sides!

Your input is valuable!

14

SURVEY FOR THE DEVELOPMENT OF PUBLIC WATER TOWN OF STERLING

Dear Neighbors:

The Town Board is trying to obtain information to determine if there is need for future water service areas. This survey was prepared to assist the engineers and the Town Board with the statistics needed. Please try to answer the questions below and then sign in the space indicating your choice (pro or con) for the development of Public Water. If there is demonstrated support for a project, the Town will use the compiled results to apply for State and Federal Grant and Low Interest Loan money to construct an affordable project. The survey results will be utilized by the Engineers involved in order to recommend potential project areas to consider.



It is important to determine where problems exist in the area in which you live and whether sufficient interest exists to secure outside funding for expanding the supply of public water. **This information does not commit you either way.**

Thank you!

Town Board

SURVEY QUESTIONS (Please use a pen)

1. Type of well: () Drilled () Dug () Other
2. Number of wells: () 1 () 2 () 3
3. Depth of well or wells: () 20 feet () feet () feet
4. Recovery time of the well or wells is/ are:
 () good () poor () has changed
 if changed: () more () less
5. Has/Have the well/wells ever been contaminated? () yes () no
6. If yes to #5, state type of contamination of well or wells:
 Contamination from Farming, E. Coli
7. Has the contamination been corrected?
 () Yes () no () have installed a system or filter to correct
8. The taste of the water is: () good () poor () tastes like _____
9. The clarity of the water is: () clear () cloudy () changes with increased use

Please complete both sides!

Your input is valuable!

10. The water causes discoloration of: sinks/toilets clothes never
11. The water has caused deterioration of: hot water heating systems plumbing hot water heaters
 filtering systems
12. Do you practice water conservation? always never occasionally
13. Do you purchase or obtain drinking water from another source? yes no
14. Has a well or wells ever gone dry? frequently occasionally never
15. How long has the problem existing? years (how many _____) occasionally
16. Do you do laundry at home? always occasionally never
17. Are you able to flush the toilet with each use? yes no
18. Have you ever had bulk delivery of water? always occasionally never
19. Are you concerned about fire protection? yes no

COMMENTS: It is time for the Town of Steeking to
Update to a water District

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____ Date 4-11-13

I am **against** the development of a water district on my road.

Signature _____ Date _____

NAME _____

ADDRESS _____

PHONE _____

Please complete both sides!

Your input is valuable!

Appendix H
Health and Sanitation Documentation

TOWN OF STERLING
OFFICE OF CODE ENFORCEMENT
1290 State Route 104A
Sterling, NY 13156

April 5, 2017

Mr. Randall Lawrence, Supervisor
Town of Sterling
1290 State Route 104A
Sterling, NY 13156

RE: Town of Sterling – Proposed Water District No. 3
Cayuga County, NY

Dear Supervisor Lawrence,

As you may know New York State has established minimum standards for the design and construction of private, on-site water systems (IWS). These standards are contained in the New York State Sanitary Code and Building Code. Residential Code subsection P2602.1.1 requires IWS wells be located and constructed according to New York State Department Sanitary Code, 10NYCRR Appendix 5-B standards. Wells that do not meet these standards pose a significant risk for public health. In addition, IWSs are also to meet standards for potable water supply set forth in SSC Subpart 5-1, Section 5-1.52.

I have reviewed the proposed Water District No. 3 project, and based on my findings, I was able to determine that a significant portion of the properties in the proposed service area do not meet these standards. As documented by resident survey results obtained from property owners throughout the proposed project area, a significant portion of properties distributed throughout the project area have dug wells that do not meet the above standards. In addition, a letter obtained from the Cayuga County Health Department (CCHD) dated January 5, 2017 (attached) re-affirms that dug wells within the project area do not comply with the above standards. CCHD also confirms that a large percentage of septic systems in the Town of Sterling do not meet current standards, increasing the risk of contamination of drinking water. As the regulatory entity for these supplies, I can say wells within the project area do not meet NYS Sanitary Code.

The primary purpose of the proposed project is to construct a new water distribution system required to allow these homes to be supplied with drinking water meeting applicable health or sanitary standards. The completion of the project will alleviate the existing health or sanitary problems.

Should you have any questions on this information, please contact me.

Sincerely,


Jay Moosé, CEO



Cayuga County Health Department

Kathleen D. Cuddy, MPH—Public Health Director
Eileen A. O'Connor, P.E.—Environmental Health Director

January 5, 2017

Randall Lawrence, Supervisor
Town of Sterling
1290 State Route 104A
Sterling, NY 13156

RE: Proposed Water District #3
Sterling (T), Cayuga County

Dear Mr. Lawrence:

This letter is in support of the proposed Town of Sterling Water District #3 which would serve the Route 104A corridor through "downtown" Sterling. According to C2AE, the Town's engineering firm, approximately 56% of the residents in this area obtain their drinking water from dug wells.

Dug wells are vulnerable to contamination from pathogens and chemical spills. The NYS Department of Health has stated that the construction characteristics typical of dug wells do not comply with requirements of Sub-part 5-1, appendix 5-B of the NYS Sanitary Code. Furthermore during periods of drought conditions, homeowners with dug wells often resort to obtaining water from alternative sources, such as roadside springs, that may have poor water quality.

In addition, the homes in this area are served by individual septic systems. Based upon information collected through Cayuga County's septic system inspection program, a large percentage of septic systems in the Town of Sterling do not meet current standards or the standards that were in effect at the time of their installation. The presence of substandard septic systems on properties with dug wells increases the risk of contamination of the drinking water.

A municipal water system in the proposed Water District #3 would allow the residents in the area to have access to safe and plentiful water.

Sincerely,

A handwritten signature in cursive script, appearing to read "Eileen O'Connor".

Eileen O'Connor
Environmental Health Division



NEW YORK STATE DEPARTMENT OF HEALTH

Bureau of Water Supply Protection

Flanigan Square, 547 River Street, Troy, New York 12180-2216

INDIVIDUAL WATER SUPPLY WELLS - FACT SHEET #5

SUSCEPTIBLE WATER SOURCES

(Well Points, Dug Wells, Springs and Shore Wells)

Individual (residential) water supplies (IWS) need to provide adequate quantities of water fit for consumption and intended uses. A drilled well, located and constructed in accordance with 10NYCRR Appendix 5-B "Standards for Water Wells", should routinely be the water supply option selected. Well points, dug wells, springs and shore wells are susceptible to contamination from pathogens, spills, etc. and the effects from drought. These water sources may be considered only as a last resort with proper protective measures and, in most cases, will require approval by County or State health department officials through issuance of a specific waiver pursuant to Part 75 of the State Health Department's Administrative Rules and Regulations or via a county sanitary code waiver provision.

SPECIFIC INFORMATION FOR SUSCEPTIBLE WATER SOURCE TYPES

The following types of water sources typically utilize surface water bodies or shallow groundwater sources. Surface waters can contain bacteria, parasites, viruses and possibly other contaminants and shallow groundwater sources are also at significant risk of contamination. These water sources typically have distinguishing construction characteristics which do not comply with Appendix 5-B requirements and would therefore require a specific waiver or other county approval if utilized.

Well Points

A well point (or "driven point") is a special type of well installed using a drive point with a built-in screen fastened to the end of a small diameter pipe (usually 1-1/4 to 2 inches) and without a protective outer casing. Well points are installed by pounding, driving or excavating down to the water table. These wells are usually constructed in shallow aquifers with sandy soils, within 10 to 30 feet of the ground surface and use a suction pump to draw water. Single pipe driven point wells under suction are not in compliance with Appendix 5-B and should be avoided.

Dug Wells

A dug well is constructed by making a large diameter excavation into a shallow aquifer, by hand digging or backhoe and shoring the excavation with large diameter concrete rings. (Shoring constructed with stone or brick are not in compliance with Appendix 5-B and should be avoided.) Dug wells are typically less than 15 feet deep and usually use a suction pump to draw water.

Springs

Springs occur where an aquifer discharges naturally at or near the ground surface, and are broadly classified as either rock or earth springs. It is often difficult to determine the true source of a spring (that is, whether it truly has the natural protection against contamination that a groundwater aquifer typically has.) Even if the source is a good aquifer, it is difficult to develop a collection device (e.g., "spring box") that reliably protects against entry of contaminants under all weather conditions. (The term "spring box" varies, and, depending on its construction, would be equivalent to, and treated the same, as either a spring, well point or shore well.) Increased yield and turbidity during rain events are indications of the source being under the direct influence of surface water.

Shore Wells

"Shore wells" (also known as "infiltration galleries" or "cassion wells") are shallow wells influenced by surface water and are installed near a waterbody in a shallow aquifer that is directly connected to surface water. Shore wells can also be shallow subsurface devices adjacent to a water body, installed to collect water through a covered stone-filled trench or similar arrangement that drains surface water to a "storage" well or tank. Soils surrounding shore wells provide minimal filtration. The risk of contamination of these water sources can be similar to those of surface water sources.

ADDITIONAL CONSIDERATIONS AND RECOMMENDATIONS

The use of susceptible sources as described above is discouraged. A properly installed drilled well should be considered first before considering the use of a susceptible source. As a last resort, when the use of a susceptible source is considered, the following is recommended:

Well Points, Dug Wells and Springs

Where shallow ground water aquifers exist, well points, dug wells and springs can be allowed if they are installed by a certified New York State Department of Environmental Conservation (NYS DEC) registered water well contractor and, in most cases, require issuance of a specific waiver by the LHD or county sanitary code approval as needed. For these sources, installation of appropriate treatment should be considered (e.g., continuous disinfection). For springs, an engineering report, which may include a hydrogeologic study, should also be provided to assure that the water source is satisfactory.

Shore Wells

In cases where satisfactory groundwater cannot be developed according to Appendix 5-B standards, a specific waiver or approvals via county sanitary code can be requested for development of a shore well. All such requests should demonstrate unsatisfactory availability of groundwater via an engineering report or other evidence (such as a hydrogeologic study) deemed acceptable by the approval authority. Since shore wells provide minimal natural filtration of surface water, all requests should include proposed design, treatment (including filtration and continuous disinfection) and an operation, maintenance and monitoring plan developed by a professional engineer. After health department approval, the shore well needs to be installed by a certified NYS DEC registered water well contractor. Inclusion of a deed amendment as a condition on the specific waiver approval should also be considered. A professional engineer should certify that the construction and installation of treatment has been provided according to plans.

WATER QUALITY TESTING

Water quality testing is important for all drinking water wells to identify water characteristics and determine treatment needs. See NYS DOH Fact Sheet #3, "Recommended Residential Water Quality Testing" for a recommended minimum list of parameters to test for. It is recommended to test for coliform bacteria every year and to periodically re-test water quality; this is particularly important for water supplies susceptible to contamination.

COUNTY OR STATE HEALTH DEPARTMENT APPROVAL PROCESS REQUIRING A SPECIFIC WAIVER FROM PART 75 OR A COUNTY SANITARY CODE PROVISION

The local health official (see below) for the geographic area where the property that will utilize the water source is located should be contacted for information about how to apply for a specific waiver or other county sanitary code approval. **It is recommended that, before an application for a waiver or other approval is submitted, the local health official be contacted regarding conceptual acceptability of the proposal.** A specific waiver or other approval IS NOT intended as a device for routinely approving individual water sources that do not meet state standards. It is intended to provide administrative flexibility to address rare cases when hardships exist and/or other circumstances that make it impractical to meet Appendix 5-B standards.

ADDITIONAL INFORMATION:

Appendix 5-B can be found at:

<http://www.health.state.ny.us/environmental/water/drinking/part5/appendix5b.htm>

NYSDEC registered well drillers can be found at: <http://www.dec.ny.gov/cfm/xtapps/WaterWell/index.cfm>

For a copy of Appendix 5-B or other Fact Sheets or questions concerning this Fact Sheet:

Contact Your Local Health Department
Official
(look for environmental health contacts)
www.nyscho.org/Directory/directory.html

or

Residential Sanitation Section
Bureau of Water Supply Protection
New York State Department of Health
(518) 402-7650 or FAX (518)
402-7659