

DRINKING WATER SOURCE PROTECTION PLAN

for

The Village of South Zanesville

PWS ID# OH6002212

August 2014

Prepared by:

South Zanesville Source Water Protection Team

With assistance from

Ohio EPA

Table of Contents

	Page
1.0 Introduction	
1.1 Benefits of a Protection Plan.....	1
1.2 Summary of Source Water Assessment Report	2
2.0 Forming a Protection Team	
2.1 Buy-in by Decision Makers.....	3
2.2 Protection Team Members.....	4
3.0 Potential Contaminant Source Control Strategies	5
4.0 Education and Outreach	7
5.0 Update of Contingency Plan	
5.1 Drinking Water Shortage – Short Term Loss of Source	9
5.2 Drinking Water Shortage – Long Term Loss of Source	9
5.3 Funding for Water Emergencies	10
5.4 Planning for the Future	10
5.5 Emergency Response to Spills in the Protection Area	11
6.0 Ground Water Monitoring	13
7.0 Periodic Review	
7.1 Updating the SWAP Assessment	13
7.2 Evaluating the Effectiveness of the Protection Plan	14
7.3 Revising the Plan	15

APPENDICES

Appendix A: Source Water Assessment Report

Appendix B: Village Council Resolution

Appendix C: Recommended Best Management Practices

- [xxxxx](#)
- [yyyyy](#)
- [zzzzzz](#)

Appendix D: Gasoline Station Reporting Requirements

Appendix E: Oil and Gas Well Information & Inspection Schedule

Appendix F: Wastewater Spill Response Plan

Appendix G: Source Water Protection Brochure

Appendix H: OEPA Flood Guidance

1.0 INTRODUCTION

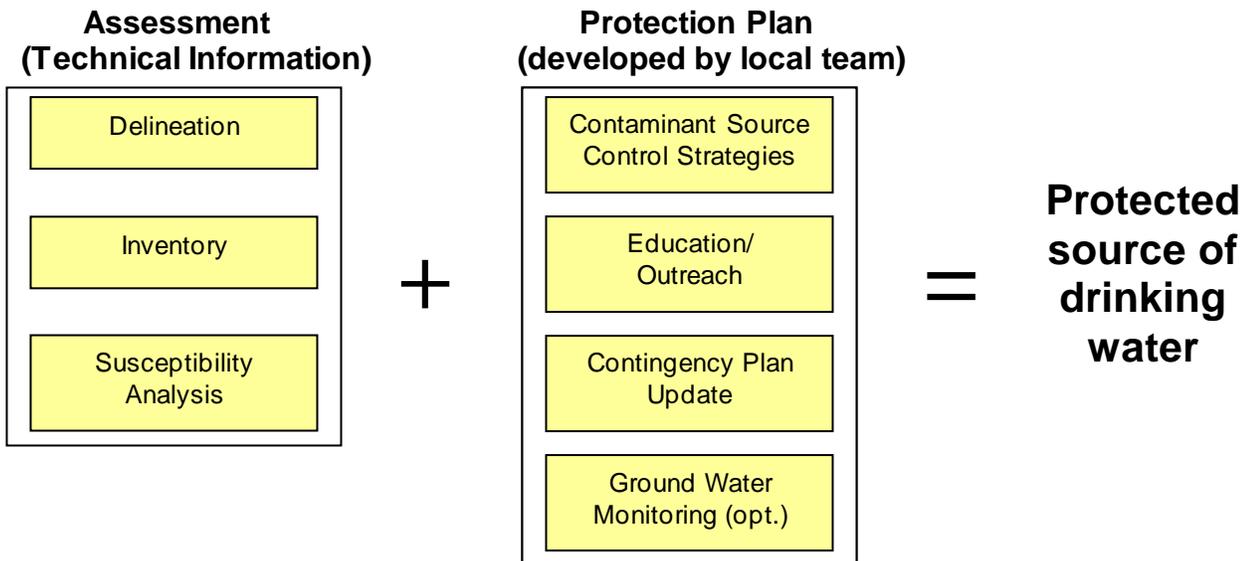
The Village of South Zanesville has developed a Source Water Protection Plan (“Protection Plan”) to document the strategies we will implement to protect the aquifer that supplies our drinking water from land-based contamination. Components of the Protection Plan include: contaminant source control strategies, education and outreach strategies, contingency plan updates, and –in some cases—ground water monitoring.

This Protection Plan builds on the Source Water Assessment Report that was completed for the Village of South Zanesville in [March 2003](#) by Ohio EPA. This assessment (see Appendix A) includes delineation of the one year and five year time of travel areas, a potential contaminant source inventory and a susceptibility analysis. The potential contaminant source inventory was updated in [XXXX, 20YY](#) by Ohio EPA & the Village of South Zanesville, to ensure the protective strategies documented here are based on currently existing contaminant sources.

1.1 BENEFITS OF A PROTECTION PLAN

A Protection Plan:

- Helps the Village of South Zanesville provide the safest and highest quality drinking water to its customers at the lowest possible cost;
- Helps to plan for future expansion, development, zoning and emergency response issues; and
- Can provide more opportunities for funding in order to improve infrastructure, purchase land in the protection area, and other improvements to the well field.



1.2 SOURCE WATER ASSESSMENT SUMMARY - VILLAGE OF SOUTH ZANESVILLE

The Village of South Zanesville operates 2 wells that pump approximately 250,000 gallons of water per day from a sand and gravel aquifer (water-rich zone) within the Muskingum River Valley Aquifer.

The drinking water source protection area for the village wells are illustrated in the Drinking Water Source Assessment report prepared by Ohio EPA March 2003. The source water protection area includes two zones, one inside the other. The “inner protection zone” is the area that provides ground water to the wells within one year of pumping. The “outer protection zone” is the area that contributes water when the wells are pumped for five years.

Based on relevant databases and a field inspection of the area, xx types of potential sources of contamination were identified within or directly adjacent to the protection area. These include: 1) gas station; 2) village sewer lines; 3) county sewer lift station & lines; 4) cultivated agricultural fields; 5) oil & gas wells with oil & brine tanks; 6) lawn care product applications; 7) natural gas drip tank; 8) horse stables; 9) local commercial and industrial businesses; 10) surface water pond.

The source of drinking water for the Village of South Zanesville has a high susceptibility to contamination due to: 1) wastewater treatment plant; 2) Marzane XXXXX; 3) Truck Terminal YYYYYY; 4) major transportation roadways; 5) Manufacturer A; 6) Manufacturer B; 7) Fuel Storage Facility; 8) Gas Stations; 9) Leaky Underground Storage Tank (LUSTs) sites; 10) Agricultural Fields; 11) Oil and Gas Wells; 12) Muskingum River.

2.0 FORMING A PROTECTION TEAM

The Source Water Protection Plan was developed by Dan Wiseman (Village Administrator and Water Plant Operator), in consultation with OEPA

2.1 BUY-IN BY DECISION MAKERS

The Village of South Zanesville held several source water protection planning meetings in 2007 with leadership supplied by Ohio EPA. Due to Ohio EPA personnel changes, the Draft Source Water Protection Plan, first developed in 2007, was never finalized. In the fall of 2013, Ohio EPA and Village personnel re-connected and the Source Water Protection Plan draft plan was revived. In 2007, the South Zanesville Village Council passed a resolution on August 7, 2007 that acknowledges the importance of source water protection and commits to developing and implementing a drinking water source protection plan.

A copy of the resolution is included as Appendix B.

Village of South Zanesville Decision Makers Meeting

Date of presentation to decision makers: August 7, 2007

Was a resolution passed? Yes No

Person in charge of oversight of the protection plan development:

Dan Wiseman

Village of South Zanesville Water and Sewer Department?

740-453-3113

2.2 PROTECTION TEAM MEMBERS

Date Protection Team was formed: **XXXXXX, yy, 2007**

Table 2-1. List of Protection Team Members			
Name	Organization / Title	Phone Numbers	(E-mail address)
Dan Wiseman	Village of South Zanesville, Administrator, Water & Wastewater Superintendent?	740-453-3113 (w) 740-819-3135 (c)	southzanesvillevillage@yahoo.com
New Jim Perdue	Mayor, Village of Zanesville	740-454-2112	
Fred buck	City of Zanesville,	740-455-0630	
Ed Morrison	Shelly & Sands	740-453-0127	
Jerry Taylor ?	Shelly & Sands	740-453-0316	
Norm Mansfield	Fire Chief, Village of South Zanesville	740-453-1171	
Dan Durant	Wayne Twp Trustee	740-674-6279	

3.0 STRATEGIES FOR CONTAMINANT SOURCES

The goal of this section is to develop protective strategies for the potential contaminant sources in or next to the protection area for the Village of South Zanesville. The potential contaminant sources listed in the Source Water Assessment Report (see Appendix A) were evaluated. The Village of South Zanesville developed specific protective strategies the community will use to protect its drinking water from the types of potential contaminant sources identified. A listing of the potential contaminant sources in the village's protection area and the protective strategies selected to address them is presented in the following table.

Table 3-1. Strategies to Reduce Risk of Specific Contaminant Sources

Potential Contaminant Source	Priority/Level of Threat	Protective Strategies	Timeline for Implementation	Who Will Implement? [Name/Title]
Wastewater Treatment Plant for the City of Zanesville	1	Request Best Management Practices (BMPs) by City of Zanesville, including: 1) Updated Spill Response Plan; 2) Operational Monitoring. South Zanesville will visit the Zanesville plant every xxxx, to review these BMPs and distribute Fact Sheets / brochures as appropriate.	Spring, 2014 Review Annually	Village of South Zanesville Water Plant Operator
Marzane	2	Request Best Management Practices (BMPs) by Marzane, including: 1) Updated Spill Response Plan; 2) Operational Monitoring; 3) Materials Management; 4) Parking of vehicles on Marzane property. South Zanesville will visit Marzane every xxxx, to review these BMPs and distribute brochures as appropriate.	Spring 2014 (Visit every year)	Village of South Zanesville Water Plant Operator
YYYYYYY Truck Terminal	3	Request Best Management Practices (BMPs) by Truck Terminal YYYYYYY, including: 1) Updated Spill Response Plan; 2) Operational Monitoring; 3) Materials Management; 4) Parking of vehicles on Truck Terminal property. South Zanesville will visit Truck Terminal YYYYYY every xxxx, to review these BMPs and distribute brochures as appropriate.	Spring 2014 (Visit every year)	Village of South Zanesville Water Plant Operator
Transportation Routes [SR 719, SR 555 (Moxahala Ave) & SR 60 (S. River Road)].	4	1) Where appropriate, request Protection Area signage from ODOT; where needed, supply additional road signage. 2) Provide SW Protection Area maps to Fire Dept and local EMA. 3) Request appropriate spill management practices by emergency responders.	ODOT -Spring, 2014; Local Depts every year beginning in 2014.	Village of South Zanesville Water Plant Operator
Manufacturer A	5	Require Best Management Practices for the handling of any hazardous products or wastes. Distribute Fact Sheets as appropriate.		

Potential Contaminant Source	Priority/ Level of Threat	Protective Strategies	Timeline for Implementation	Who Will Implement? [Name/Title]
Manufacturer B	6			
Gas & Diesel Bulk Storage Plant	7	Still exist?		
Gas Station A	8	Require Best Management Practices including: 1) Spill Response Plan; 2) Receive & Monitor Annual BUSTR Operational Compliance Form (Appendix X); Distribute Fact Sheets / Brochure as appropriate.		
Leaky UST Sites	9			
Agricultural Fields	10			
Oil & Gas Wells Oil & Brine Tanks	11	Request annual ODNR inspections of the xx oil/gas wells and accompanying tanks in and near the protection area.		
Mukingum River well field floods	3	Refer to Appendix G for OEPA Guidance following a well field flooding event.	As necessary when flooding is imminent or occurs.	

4.0 EDUCATION AND OUTREACH

The purpose of the Protection Team’s education and outreach efforts is to inform people who live and work in the drinking water source protection area for the Village of South Zanesville about where their drinking water comes from and why it is important to protect this valuable resource. Education and outreach efforts will also inform the community how their activities can potentially impact groundwater and what they can do to prevent contamination.

Table 4-1. Educational Strategies			
Education and Outreach Strategies	Target Audience	Time line for Implementation	Who (name and title) will implement this strategy?
Distribute Source Water Protection Brochure via ??????	Village Residents	Spring 2014	
Distribute Source Water Protection Brochures via School Science Teachers ?? @ Maysville or Zanesville Schools????	School Children & Parents	Spring 2014	
Distribute Source Water Protection Brochures & Fact Sheets to local businesses.	Local Businesses	Spring 2014	
Air Photo Poster Display of Source Water Protection Area - Post Office, Library, Gas Station, Town Hall & Web Site ?????	Village Residents	Spring 2014	
Source Water Protection Lesson / Intervention in Schools A, B, C???	School Children & Parents	Spring 2011	Musk Co. SWCD & Science Teachers with participation by the SWEET Team ????
ODOT Road Signs	Village Residents	Following Endorsement of Protection Plan – Spring 2014	

Education and Outreach Strategies	Target Audience	Time line for Implementation	Who (name and title) will implement this strategy?
Press Release via the local newspaper, radio, TV. Post on the Village Web Site.	Village Residents	Following Endorsement of Protection Plan – Spring 2014	
Post Source Water Protection Plan on Village Web Site.	Village Residents	Following Endorsement of Protection Plan – Spring 2014	

5.0 UPDATE OF CONTINGENCY PLAN

A well-formulated contingency plan enables a utility to prepare for, respond to, and recover from crisis conditions without wasting time on futile or unnecessary efforts or spending funds unnecessarily. The plan defines the duties, responsibilities, and functions of all Village of South Zanesville personnel with respect to each specific emergency condition. The Village of South Zanesville has developed procedures to address specific situations that can be expected to arise, and these are documented below and in the village's water plant contingency plan.

The following are issues that are specific to drinking water source protection. Most of this information is included in the newly revised XXXXX, yyyy Water Supply Contingency Plan for the Village of South Zanesville.

5.1 DRINKING WATER SHORTAGE – SHORT TERM LOSS OF SOURCE

If Village of South Zanesville experiences a short-term loss of its drinking water source (such as through a short-lived emergency in the well field, collapse of a well, etc.), it will acquire water from:

- City of Zanesville: 740-455-0630, and/or have connected line
- Maysville Water: 740-849-2428, and/or don't need
- Bulk water via local fire department trucks or GGGGG Transport - from the Zanesville, Philo or Maysville PWS systems. Don't need

The Village of South Zanesville can provide water from existing storage for up to 2 day, provided it is not necessary to flush out the entire distribution system.

Current storage in gallons / (# of customers x 100 gal/day) = # of days of storage

#####s = X days of storage.

5.2 DRINKING WATER SHORTAGE – LONG-TERM LOSS OF SOURCE

In the event of complete loss of the current well field, the Village of South Zanesville would most likely:

- Move to secure another well field in the vicinity, and or,
- Investigate tying in with another nearby system, such as: 1) XXXXX, YYYYYY or ZZZZZZ. The current water treatment capacity of XXXXX is xxx,000 gallons/day, and its average daily pumpage for its own customers is bbb,000 gallons/day. The current water treatment capacity of YYYYYY is yyy,000 gallons/day, and its average daily pumpage for its own customers is zzz,000 gallons/day.
Already connected to Zanesville

5.3 FUNDING FOR WATER EMERGENCIES

The Village of South Zanesville currently has \$xx,000 budgeted for emergency use. If additional monies are required, the Village will contact state, local or regional lenders with the authority to make loans in an emergency situation). The village currently works with First National Bank of YYYYY. See page X of the Contingency Plan (to be updated in 2014).

5.4 PLANNING FOR THE FUTURE

- A. Current average daily pumpage = 250,000 gallons per day (2012)
- B. Current daily South Zanesville design capacity) = 432,000 gallons per day (2012)
- C. Wellfield capacity (the maximum amount the wells can pump, based on the capacity of the pumps) is approximately =465,000 gallons per day.

The Village of South Zanesville currently is pumping about 80% (A/B) of its design capacity and 65% (A/C) of its well field capacity.

Census figures indicate that Muskingum County (or South Zanesville) has maintained a steady population (of 26,000 to 30,000) since Currently no significant growth or decline of population is anticipated. Due to the depth of the aquifer, ground water levels in the vicinity have remained fairly steady even during major drought years. Also, at this time, South Zanesville is not aggressively developing and does not anticipate a sudden spike in industrial use of the water.

Based on this, the Village of South Zanesville does not anticipate the need to expand the well field or significantly increase pumpage within the next 5-10 years. However, both well #1 and #2 are beginning to decline in pumping capacity from approximately vvv gal/min in 1980 to jjjj gal/min in 2012. This may require the village to rehabilitate or replace one or both of their village wells in the next 5 – 10 years.

5.5 EMERGENCY RESPONSE TO A TOXIC SPILL/RELEASE IN THE PROTECTION AREA

Appendix A of the Village of South Zanesville Contingency Plan provides an emergency services phone number list in the case of an accidental chemical spill and release in the protection area. Some of these phone numbers are also listed in the following section.

Accidental Chemical Spill or Release within the Protection Area

1. () Determine the following information:
 - Who made the first observation? What is their phone number and location?
 - When did it happen?
 - What is it?
 - Where is it? Is it isolated to one area or is it wide spread?
 - Has the spill been reported to Ohio EPA?
 - Has the fire department or hazardous materials response team been notified?
 - Has the property owner been notified?
2. () If no notifications have been made, immediately contact emergency personnel and agencies (i.e. fire dept., Ohio EPA, etc.) using the phone number(s) found in Appendix A of the Contingency Plan. Notify them of the situation. Three of these numbers are listed below:

Ohio EPA's 24-hour emergency response phone number is **1-800-282-9378**.

The **Muskingum County EMA** should be contacted at **740-455-7942** or **911**.

The **South Zanesville Fire Department** should also be called through **911** or **740-453-1171**.

3. () Contact the following work personnel, village officials, and contractors using the phone number(s) found on page 1 of the Contingency Plan. Three of these numbers are listed below:

Mayor Richard Guss: new mayor Jim Perdue 740-452-2112
Village Council President new president Barb Lloyd: 740-454-2112
Village Administrator Dan Wiseman: 740-453-3113 or 740-819-3135

4. () If it is safe to do so visit the scene to make contact with on-scene emergency personnel and agencies. The local fire department is generally the lead response agency.
5. () Complete the following activities as soon as possible:
 - a. () Perform a physical check on the Village of South Zanesville and its structural integrity (check wells for damage, etc.).
 - b. () If it is determined that the spill resulted in the probable introduction of contaminants into the wells, proper precautions must be taken during sampling to prevent exposure to the contaminant and/or daughter products.
 - c. () If repairs are needed, coordinate with the lead response agency and Ohio EPA to ensure the safety of the repair crew. Proper precautions must be taken to prevent exposure to the contaminant and/or daughter products.
 - d. () If the Village of South Zanesville needs to be temporarily shut down as a result of the spill, procedures can be found in the contingency plan. Plans for short term loss of source can be found on page 9 of this Source Water Protection Plan.

6. () If the wells are secure, coordinate with the lead response agency and Ohio EPA on actions being taken to mitigate the spill. At a minimum, obtain the following information:

Who is responsible for the cleanup? What is their phone number and other contact information?

What contractors or consultants have been sent by the responsible party?

What actions have they taken?

How long is clean-up expected to take? How long must water use be stopped or reduced? (If greater than one week, options for long-term loss of source may be initiated. See page X of this Source Water Protection Plan.) The Contingency Plan does not address long-term loss of source water.

7. () Follow-up with the on-scene responders and contractors to determine if additional, long-term actions (such as ground water treatment and/or additional raw water monitoring) are required or recommended. If so, determine:

- What kind of monitoring is needed, at what frequency?
- What levels will trigger return to normal operations?
- What kind of additional treatment may be needed?

6.0 Ground Water Monitoring

The Village of South Zanesville source water protection team has decided not to incorporate ground water monitoring in its Source Water Protection Plan. Although the source water protection area is highly susceptible to contamination, it is believed that ongoing visual monitoring and inspection of activities within the source water area will serve as a substitute for the chemical warning given by a ground water monitoring program. Also, since the establishment of the well field, no historical contamination has been detected. No local plume within the capture zone of the well field is believed to be present. If such contamination became known or highly suspected, South Zanesville would re-consider the option of a ground water monitoring program.

7.0 Periodic Review

A protection plan is not a static document. Over time many issues related to protection planning will change- wells will be added or removed from the well field, existing potential contaminant sources will close, new education and outreach opportunities will become available, new partners in protecting the drinking water source will be identified. The protection plan needs to plan for these and other events.

The Village of South Zanesville commits to reviewing the Drinking Water Source Protection Plan every (1, 2 or 3) years, beginning with October 2015.

7.1 Updating the SWAP Assessment

Delineation Updates

- Has the amount of pumping increased or decreased since the date Ohio EPA provided the Drinking Water Source Assessment report?
- Have any wells been added or removed?
- Has a new well field been added or are there any plans for a new well field?
- Is there new hydrogeologic data to refine the delineation model (e.g., flow direction, pump tests, new well logs etc.)?

If the answer to any of the above questions is yes, the Village of South Zanesville will contact Ohio EPA's Source Water Assessment and Protection Program staff in the Southeast District office to determine whether the protection area should be re-delineated.

Potential Contaminant Source Inventory

- Has the extent of the protection area changed?
- Has the community developed rapidly?
- Have land uses in and around the protection area changed?
- Has management of businesses in the protection area changed?

If the answer to any of the above questions is yes, the Village of South Zanesville will update the inventory or conduct a new inventory. The Village of South Zanesville may

contact Ohio EPA's SWAP staff in the district office for guidance or assistance in conducting the inventory.

Other

- Is the list of Protection Team members and contact numbers current?

7.2 Evaluating the Effectiveness of the Protective Strategies

In order to evaluate if the protective strategies in this Source Water Protection Plan are achieving the desired outcomes, the Village of South Zanesville will consider the following types of questions and write any changes into the Protection Plan.

- *[If local protection area ordinances are in place]:* Has the ordinance achieved its purpose? (If not, why not?) Should it be revised to be more effective?
- *[If local protection area ordinances are not in place]:* Do we have reason to be concerned about how the drinking water source protection area may be used in the future? Should we consider trying to better protect it through a local ordinance? Would such an ordinance need to be enacted and implemented by another jurisdiction?

Pollution Source Control Strategies:

- Have we followed our own schedule of implementation/timeline (Section 2, Table 2-1) for each of the pollution source control strategies?
- Are there new potential contaminant sources that need to be addressed with new pollution source control strategies?
- Have we implemented any new protective strategies that are not documented here?
- Did any of our strategies result in removal or elimination of a potential source?
- Did any of our strategies result in business owners or individuals modifying practices to decrease the risk of contaminating the drinking water source?
- Did our coordination with other groups (SWCDs, county EMAs, local health dept., local watershed group, etc.) contribute to the implementation of protective strategies?
- Have the partnerships developed during plan implementation been productive?

Education and Outreach:

- Have we followed our own schedule of implementation/timeline (Section 3, Table 3-1) for each of the educational strategies?
- Are there any new groups in the population that we need to target with education and outreach strategies?
- Have we implemented any new educational strategies that are not already documented here?
- Has education and outreach targeting any specific group resulted in actions that reduced or could potentially reduce the risk of contaminating the drinking water source (e.g., septic Village of South Zanesville owners conducting regular maintenance, farmers using best management practices, properly sealing abandoned wells)?

- Have we received additional funding to continue any particular education and outreach strategy?
- Have we received any accolades, awards or recognition from outside entities or organizations for our educational efforts?
- Have we had any unsolicited requests for SWAP-related education (such as requests for plant tours, requests for presenters/speakers at events, etc.)?
- Did our coordination with other groups (SWCDs, SWEET Team, local health dept., local watershed group, etc.) contribute to the successful development and dissemination of SWAP-related information?
- Did we have sufficient staff and resources to complete all the planned educational efforts?
- Have educational efforts been cost effective? Efficient? (Consider level of attendance, attentiveness and participation by audience, comments received, etc., vs. the cost to facilitate the event) Should the frequency of the outreach be increased, decreased, or remain the same?
- Have the partnerships developed during plan implementation been productive?
- Have any of the target groups contacted the public water Village of South Zanesville for additional information about something they saw or heard about through these activities?

Drinking Water Shortage/Emergency Response:

- Are there any updates to the Drinking Water Shortage/Emergency Response Plan?
- Did our coordination with emergency responders at the local and county level result in better communication and handling of spill incidents that could impact our drinking water?

Ground Water Monitoring:

For systems that are NOT monitoring raw ground water quality:

- Have there been any significant changes to our water quality?
- Are there new water quality, potential contaminant source or land use issues that may make it necessary to develop and implement a ground water monitoring program?

7.3 Revising the Plan

Upon review, if any revisions of the SWAP Assessment Report are needed, the Village of South Zanesville will contact Ohio EPA's SEDO office for guidance. Also, if the local planning team makes any substantial changes to the Protection Plan for the Village of South Zanesville, a copy will be forwarded to Ohio EPA for concurrence. The revision will be documented on the front cover by adding "Revised [date]" beneath the date at the bottom of the page.

Appendix A

Ohio EPA's Drinking Water Source Assessment Report

for

The Village of South Zanesville

Appendix B

Resolution of the Village of South Zanesville

(Establishing/Authorizing a Source Water Protection Team)

Appendix C

Recommended Best Management Practices

- X
- Y
- Z

Appendix D

Gasoline Station Reporting Requirements

[BUSTR Operational Compliance Form]



State of Ohio, Department of Commerce
 Division of State Fire Marshal—Bureau of Underground Storage Tank Regulations
 P.O. Box 687, Reynoldsburg, Ohio 43068
 Phone (614) 752-7938 Fax (614) 752-7942

BUSTR Operational Compliance Form

Ownership of Tanks: Owner # <u>W005466</u>	Location of Tanks: Facility # <u>79002219</u>
Owner/Operator Name <u>Anna McPeck</u>	Facility Name <u>Park Marathon</u>
Address <u>P.O. Box 619</u>	Address <u>530 Cherry St.</u>
City/State/Postal Code <u>Juscarawas, OH 44682-0619</u>	City/State/Postal Code <u>Juscarawas, OH 44682</u>
Owner Contact <u>Anna McPeck</u>	County <u>Juscarawas</u>
Phone Number <u>614-922-3684</u>	Local Fire Department _____

Instructions: Starting no later than January 1, 2006, and annually thereafter, rule 1301:7-9-08(G)(1) of the Ohio Administrative Code requires owners and operators of underground storage tanks (UST's) regulated by the Bureau of Underground Storage Tank Regulations (BUSTR) to perform periodic checks of their UST systems and to attest to their findings below. This form must be completed by the owner and operator or authorized representative and maintained by the owner for at least five years. Please initial and date beside each statement that applies.

Initial: MSB Date: 7/19/10 I attest that the spill and overfill prevention equipment is in proper working order per Rule 1301:7-9-08(B) of the Administrative Code.

Initial: N/A Date: 7/19/10 I attest that the corrosion protection equipment is in proper working order per Rule 1301:7-9-08(C) of the Administrative Code.

Initial: MSD Date: 7/19/10 I attest that the UST and piping equipment is in proper working order per Rule 1301:7-9-08(D) of the Administrative Code.

Initial: MSB Date: 7/19/10 I attest that the containment and ancillary equipment is in proper working order per Rule 1301:7-9-08(E) of the Administrative Code.

Initial: MSB Date: 7/19/10 I attest that the release detection equipment is in proper working order and has been maintained in accordance with the manufacturers' requirements per Rule 1301:7-9-08(F) of the Administrative Code.

Initial: MSD Date: 7/19/10 I attest that any releases of regulated substances identified during the course of completing this form have been reported to BUSTR in accordance with sections 3737.88 and 3737.882 of the Revised Code.

Please provide an explanation for any of the above statements left incomplete: None. No CP is present at this site.

I certify under penalty of law that I have personally examined and am familiar with all information submitted in this and all attached documents, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete.

Print name and official title of owner
(or owner's authorized representative)

Signature

Date Signed

TANK INTEGRITY SERVICES, INC.

COMPLIANCE TESTING: STORAGE TANKS & PRODUCT LINES, VAPOR RECOVERY SYSTEMS & CATHODIC PROTECTION

POST TEST CHECK LIST

APPENDIX C (STAGE II POST TEST FORM)

APPLICATION #

SITE NAME <i>Park Marathon</i>	SITE # <i>N/A</i>	SITE COUNTY <i>Tuscarawas</i>
SITE ADDRESS <i>530 Cherry St.</i>		SITE CITY, STATE, ZIP <i>Tuscarawas, OH 44628</i>

YES	N/A	DISPENSER & TANK AREA
<input checked="" type="checkbox"/>		ALL PIPES UNDER THE DISPENSER ARE CAPPED, PLUGGED, OR RE-ATTACHED.
<input checked="" type="checkbox"/>		NO LEAKS ARE PRESENT UNDER DISPENSER, NOR FROM HOSES OR NOZZLES
<input checked="" type="checkbox"/>		ALL IMPACT VALVES & BALL VALVES ARE OPEN AND PRODUCT LINES HAVE BEEN PUT BACK IN SERVICE.
<input checked="" type="checkbox"/>		ALL DISPENSER PANELS ARE CORRECTLY RE-INSTALLED.
	<input checked="" type="checkbox"/>	ALL LOCK-OUTS OR "OUT OF SERVICE" BAGS ON NOZZLES HAVE BEEN REMOVED.
	<input checked="" type="checkbox"/>	KEROSENE PUMP HAS BEEN PURGED W/2 GALLONS AND PRODUCT HAS BEEN RETURNED TO STORAGE.
<input checked="" type="checkbox"/>		ANY ISOLATION PLUGS HAVE BEEN REMOVED.
<input checked="" type="checkbox"/>		ALL TANK TOP COMPONENTS REMOVED HAVE BEEN RE-INSTALLED AND SECURE.
	<input checked="" type="checkbox"/>	DROP OUT IS FREE OF PRODUCT AND FUNCTIONING PROPERLY.
<input checked="" type="checkbox"/>		ALL LIDS AND COVERS THAT WERE REMOVED ARE PROPERLY RE-INSTALLED.
	<input checked="" type="checkbox"/>	ALL DROP TUBES REMOVED HAVE BEEN RE-INSTALLED.
<input checked="" type="checkbox"/>		ALL LEAK DETECTORS REMOVED HAVE BEEN RE-INSTALLED AND SUBMERSIBLE PIT CHECKED FOR LEAKS
	<input checked="" type="checkbox"/>	ANY DEFECTIVE PARTS REPLACED WERE LEFT WITH THE SITE REPRESENTATIVE.
<input checked="" type="checkbox"/>		ANY PRODUCT THAT WAS PUMPED FOR TESTING HAS BEEN RETURNED TO THE PROPER STORAGE TANK.
<input checked="" type="checkbox"/>		ALL TOOLS, TESTING EQUIPMENT, SAFETY CONES ETC. HAVE BEEN REMOVED & RETURNED TO TRUCK
<input checked="" type="checkbox"/>		THE SITE HAS BEEN RETURNED TO ITS "PRE-TEST" CONDITION.

ADDITIONAL COMMENTS: PLEASE SEE REVERSE SIDE FOR THE MANUFACTURES WARRANTY ON PARTS AND EQUIPMENT

Performed line tests, Test Results: Pass

Performed leak detector tests, Test Results: Pass

Performed ATG Inspection; Pass

Performed Bust Inspection, all conditions are satisfactory.

SITE REPRESENTATIVE NAME & TITLE PRINTED <i>NEVA VAN OSSEAN</i>	SITE REPRESENTATIVE SIGNATURE <i>[Signature]</i>	DATE <i>7/19/10</i>
T.I.S. TECHNICIAN NAME PRINTED	T.I.S. TECHNICIAN SIGNATURE	DATE <i>7/19/10</i>
TESTING COMPANY TANK INTEGRITY SERVICES, INC. N. ROYALTON, OH PH 440-237-9200 FAX 440-582-5119		

WHITE-STATION COPY

YELLOW-INVOICE COPY

PINK-FILE COPY

REV. 4/00

Appendix E

Oil & Gas Well Information
(Wells in and surrounding the source water protection area)

&

Recommended Inspection Schedule

The following O&G Wells and associated storage tanks are scheduled to be inspected annually for integrity and proper maintenance. The wells and storage tanks surround the source water protection area for the Village of Tuscarawas.

Well NW of 5 yr Tot

API_NO34157211930000

PERMIT21193

WELL_NO 1

PRODFM1 CLNN

PRODFM2

OIL

GAS 1850M

OLD_PERM 1193

CNTY_NO 157

TWP_NO 3015

NAD83_X 2274301.69083

NAD83_Y 270742.37421

NAD27_X 2305764.2412

NAD27_Y 270712.94292

Well E of 5 yr Tot

API_NO34157211790000

PERMIT21179

WELL_NO 1

PRODFM1 CLNN

PRODFM2

OIL

GAS 3958M

OLD_PERM 1179

CNTY_NO 157

TWP_NO 3015

NAD83_X 2275931.71228

NAD83_Y 269501.61596

NAD27_X 2307394.23953

NAD27_Y 269472.19185

Well near WWTP, E of 5 yr Tot

API_NO34157211580000

PERMIT21158

WELL_NO 1
PRODFM1 CLNN
PRODFM2
OIL 10BO
GAS 1166M
OLD_PERM 1158
CNTY_NO 157
TWP_NO 3015
NAD83_X 2275272.39881
NAD83_Y 266674.53189
NAD27_X 2306734.92559
NAD27_Y 266645.10645

Well due S of Well field

API_NO34157246610000

PERMIT24661

WELL_NO 2
PRODFM1 CLNNS
PRODFM2
OIL
GAS 50M
OLD_PERM 4661
CNTY_NO 157
TWP_NO 3015
NAD83_X 2273974.90307
NAD83_Y 266869.18738
NAD27_X 2305437.44564
NAD27_Y 266839.75594

Well SW of 5 yr Tot (Sr Citizen Housing)

API_NO34157211940000

PERMIT21194

WELL_NO 1
PRODFM1 CLNN
PRODFM2
OIL
GAS 1735M
OLD_PERM 1194
CNTY_NO 157
TWP_NO 3015
NAD83_X 2276900.06019
NAD83_Y 267927.97036
NAD27_X 2308362.57143
NAD27_Y 267898.55146

Appendix F

Sewer Spill Response Plan

Appendix G

Source Water Protection Brochure

for

The Village of South Zanesville

Did You Know.....

- Only 3% of the water on earth is drinkable.
- Less than one gallon of gasoline can pollute one million gallons of water.
- **You** can **avoid** contaminating your source of drinking water by properly disposing of chemicals that have the potential to cause ground water contamination.
- The following chemicals are common ground water contaminants:
 - Cleaning Products
 - Automotive Products
 - Fuel Oil & Gasoline
 - Furniture Strippers
 - Lawn & Garden Products
 - Oil based paints
- Improper disposal methods include:
 - pouring chemicals on the ground,
 - pouring chemicals down a sink or toilet connected to a septic system,
 - pouring wastes down a storm drain because many storm drains lead directly into the ground or to a nearby stream.

Contacts

At

The Ohio Environmental Protection Agency

Ohio Environmental Protection Agency
Lazarus Government Center
P.O. Box 1049
Columbus, Ohio 43215-1049
www.epa.state.oh.us

For questions concerning Drinking Water Protection, contact:

The Division of Drinking and Ground Waters

Phone: (614) 644-2752

The Office of Pollution Prevention

Phone: (614) 644-3469

Contacts

in the

Village of South Zanesville

**For questions concerning the Municipal
Water Supply or Drinking Water Source
Protection Area for the Village of South
Zanesville, contact:**

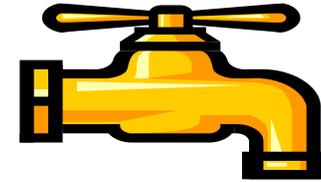
**Dan Wiseman, Water & Sewer
Department**

Phone: (740-453-3113).

or

The South Zanesvill Village Office

Phone: (740) 454-0492

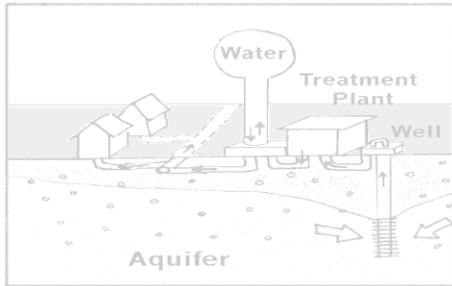


**A Community Awareness
Announcement**

for

The Village of South Zanesville, Ohio

Where does drinking water come from in the Village of South Zanesville?



South Zanesville's drinking water is pumped out of the ground by two wells located in the village park; the water is treated with chlorine to kill any bacteria in it. From there, the ground water is pumped through an underground network of pipes to village homes and businesses.

Where does the ground water come from?

All ground water originally comes from rain or melted snow that has seeped into the ground. Water fills spaces between sand and gravel, as well as fractures in rocks. Where underground water is abundant enough to provide an adequate source of drinking water, the water-rich sediments or rocks are called an aquifer. The drinking water supply for the Village of South Zanesville comes from a portion of a sand and gravel aquifer associated with the Muskingum River.

Ground water does not stay in one place. The ground water supplying the village's wells seeps very slowly from the north and east to the south and west. This means that if pollutants are spilled on the ground anywhere near the wells, or north and east of the wells, they may eventually enter the ground water that you are drinking. And although the water



is treated with chlorine to remove bacteria, it would be very expensive to purchase a treatment system for every type of possible pollutant. This is why everyone in the Village of South Zanesville should know about **Drinking Water Source Protection**.

What is Drinking Water Source Protection?

Drinking Water Source Protection is a plan of action for protecting the water you drink from contamination at the source.

To assist the Village of South Zanesville with our drinking water source protection efforts, Ohio EPA provided the village with a Drinking Water Source Assessment report. This report included a map of the protection area (see above), based on calculations of how far water travels through the aquifer in five years. The report also includes information on

risk to the drinking water source. Potential risks are based on proximity to the drinking water source and the kinds/quantities of chemicals that are typically handled by these types of facilities.

The Village of South Zanesville has used the provided assessment to develop a drinking water source protection plan. If you would like to be more involved with the village's drinking water protection efforts, or if you would like to see a copy of the village's drinking water source protection plan, please contact the Dan Wiseman in the Water & Sewer Department at **740-453-3113** or the village office at **740-454-0492**.

Most importantly, if you live or work within the Village of South Zanesville drinking water protection area, please pay attention to the "Did You Know..." portion of this brochure.

