F. On February 12, 2004, the Department conducted an inspection of the POTW. The inspection report documented that the inner lid of Manhole No. 12 was replaced and the outer lid was bolted down.

G. On February 17, 2004, the Department issued a Notice of Violation ("NOV") letter to Penn for a discharge of sewage from Manhole No. 12 along the main interceptor into Oil Creek. The violation was documented during a Department inspection on February 2, 2004.

H. On February 25, 2004, Penn responded to the NOV letter issued on February 17, 2004. The letter acknowledged that Manhole No. 12 overflowed and identified corrective actions including inspecting the main interceptor annually and constructing a new interceptor. The letter indicated that the sewage overflow may have been caused by extreme wet weather during December and a partial obstruction of the flow channel by a broken inner lid.

I. On March 18, 2004, the Department conducted an inspection of the POTW. The inspection report documented that evidence of past conveyance system overflows were found at Manhole Nos. 6, 7, 8, 12, 20, and 21.

J. On April 24, 2004, Penn submitted a letter to the Department indicating that sections of pipe installed at minimum slopes, extreme rainfall, and a manually cleaned bar screen caused manhole overflows along the main interceptor.

K. On May 25, 2004, the Department sent a letter to Penn indicating that the sewage conveyance system was hydraulically overloaded and that it would be necessary for Penn to comply with the program in 25 Pa Code Section 94.21 of the Department's Rules and Regulations.

L. On May 13, 2005, Penn submitted a Corrective Action Plan ("CAP") to the Department. The CAP included a four-phased approach to upgrade the main interceptor and reduce flow in the sewage conveyance system with an implementation schedule.

M. On May 23, 2005, the Department sent a letter to Penn approving the CAP submitted on May 13, 2005.

N. On August 1, 2005, Penn submitted a Quarterly Update Report ("Update Report") as required by the CAP. The Update Report detailed the results of the work that was completed, and identified the work to be completed in the next quarter.

O. On August 10, 2005, Penn submitted an amended CAP to the Department. The amendment changed the date to provide flow data to the consortium of developers from July 31, 2005, to August 15, 2005, along with providing 40 taps to a proposed development. The amendment also changed the date to approve a developer's agreement from July 2005, to September 2005.

P. On August 17, 2005, the Department sent a letter to Penn approving the amendment to the CAP submitted on August 10, 2005.

Q. On October 31, 2005, January 31, 2006, and May 1, 2006, Penn submitted Update Reports to the Department detailing the results of the work that was completed in the prior quarter, and identified the work to be completed in the next quarter.

R. On November 1, 2006, Penn submitted an Update Report to the Department. The Update Report indicated that Penn was behind on implementing the work in Phases II, II, and IV of the CAP.

S. On November 15, 2006, the Department sent a letter to Penn in response to the Update Report submitted on November 1, 2006. The letter documented that Penn was behind on implementing the work in phases II, III, and IV of the CAP. The letter also indicated that the Department could not approve any planning modules until Penn submitted a realistic and approvable schedule to eliminate the hydraulic overload in the main interceptor.

T. On February 12, 2007, Penn submitted an Update Report and a CAP amendment request to the Department. The CAP amendment request did not include a date to eliminate the hydraulic overload in the main interceptor.

U. On April 3, 2007, the Department responded to Penn's CAP amendment request via email. The email indicated that the Department would not be able to approve planning modules when a CAP schedule is not implemented until the Department approves a revised schedule. The email also indicated that the CAP amendment was not approvable, because it did not include an end date to eliminate the hydraulic overload in the main interceptor.

V. On July 19, 2007, Penn submitted an Update Report to the Department. The Update Report indicated that Penn did not expect to meet the December 2007, deadline to eliminate the hydraulic overload of the main interceptor.

W. On August 2, 2007, the Department sent a letter to Penn indicating that no planning modules for new development tributary to the STP would be approved, because Penn is not implementing an approved CAP.

X. On April 16, 2008, the Department sent a letter to Penn requesting a revised CAP and an Act 537 Plan within sixty days.

Y. On June 12, 2008, Penn submitted a revised CAP and an Act 537 Plan to the Department.

Z. The conduct, as described in paragraphs E and I above, constitute violations of Sections 201 and 202 of The Clean Streams Law, 35 P.S. §§ 691.201 and 691.202.

AA. The violations described in paragraph Z above, constitutes unlawful conduct under Section 611 of The Clean Streams Law, 35 P.S. § 691.611; a statutory nuisance under Section 601 of The Clean Streams Law, 35 P.S. § 691.601; and subject Penn to civil penalty liability under Section 605 of The Clean Streams Law, 35 P.S. § 691.605.

ORDER

After full and complete negotiation of all matters set forth in this COA and upon mutual exchange of covenants contained herein, the parties desiring to avoid litigation and intending to be legally bound, it is hereby ORDERED by the Department and AGREED to by Penn as follows:

1. **Authority.** This COA is an Order of the Department authorized and issued pursuant to Section 5 of The Clean Streams Law, 35 P.S. § 691.5; and Section 1917-A of the Administrative Code, 71 P.S. § 510.17.

2. **Findings.**

   a. Penn agrees that the findings in paragraphs A through AA are true and correct and, in any matter or proceeding involving Penn and the Department, Penn shall not challenge the accuracy or validity of these findings.

   b. The parties do not authorize any other persons to use the findings in the COA in any matter or proceeding.

3. **Corrective Action.**

   a. Within 120 days from the date of this COA, Penn shall submit a complete and approvable planning module for resolving the capacity problems in the Main Interceptor above manhole 5 or provide for the construction of the Phase IV interceptor project. With a firm commitment and end date to build the Phase IV interceptor project, Penn and the Department will consider planning module submissions and sewer connections for new developments to Penn while the interceptor project is being implemented, pursuant to 25 Pa.Code Section 94.21 (b) of the Department's Rules and Regulations.

   b. On or before October 31, 2009, Penn shall submit a Water Quality Management ("WQM") Part II Permit Application for an upgrade of the Main Interceptor from manholes 5 to the STP, and a lowering of the headworks at the STP.

   c. On or before June 30, 2010, Penn shall submit a complete WQM Part II Permit Application for the upgrade of the Main Interceptor above manhole 5 or the construction of the Phase IV interceptor project.

   d. On or before January 31, 2011, Penn shall begin construction of the upgrade of the main interceptor to manhole 5 and lowering of the headworks.

   e. On April 30, 2011, Penn shall begin construction of the upgrade of the Main Interceptor above manhole 5 or the Phase IV interceptor.

   f. On or before September 30, 2011, Penn shall complete construction of the upgrade of the main interceptor to manhole 5 and the lowering of the headworks.

   g. On or before November 30, 2011, Penn shall complete construction of the upgrade of the Main Interceptor above manhole 5 or the Phase IV interceptor project.

h. If the Department requires additional information to review and approve any submittal necessary to comply with this COA, Penn shall submit the requested information within 10 calendar days of the date of the Department's notice that such information is required; however, upon written request, including a justification from Penn, the Department may allow an extension for such a submittal.

i. Within 15 days of completing each corrective action identified above, Penn shall submit written verification to the Department of the date the action was completed.

4. **Stipulated Civil Penalties.**

a. In the event Penn fails to comply in a timely manner with the provisions of this COA, Penn shall be in violation of this COA and, in addition to other applicable remedies, shall pay a civil penalty in the amount determined under the following schedule:

(1) For any violation of paragraphs 3.a. through 3.i. $100 per day for the first 30 days of each violation, and $200 per day for each violation extending beyond the first 30 days.

b. Stipulated civil penalty payments for any violation of paragraph 3 herein shall be payable monthly on or before the fifteenth day of each succeeding month, and shall be forwarded as described in paragraph 9 below. The penalties shall be due automatically and without notice.

c. Any payment under this paragraph shall neither waive Penn's duty to meet its obligations under this COA, nor preclude the Department from commencing an action to compel Penn's compliance with the terms and conditions of this COA. The payment resolves Penn's liability only for civil penalties arising from the violation of this COA for which the payment is made.

5. **Additional Remedies.**

a. In the event Penn fails to comply with any provision of this COA, the Department may, in addition to the remedies prescribed herein, pursue any remedy available for a violation of an order of the Department, including an action to enforce this COA.

b. The remedies provided by this paragraph and paragraph 4 are cumulative and the exercise of one does not preclude the exercise of any other. The failure of the Department to pursue any remedy shall not be deemed to be a waiver of that remedy. The payment of a stipulated civil penalty, however, shall preclude any further assessment of civil penalties for the violation for which the stipulated civil penalty is paid.

c. No provision of this COA shall preclude the Department from pursuing civil penalties for past violations, or any future reported or documented violations, except those violations covered by Paragraph 4 of this COA.

6. **Reservation of Rights.** The Department reserves the right to require additional measures to achieve compliance with applicable law. Penn reserves the right to challenge any action which the Department may take to require those measures.

7. **Liability of Operator.** Penn shall be liable for any violations of the COA, including those caused by, contributed to, or allowed by its officers, agents, employees or contractors. Penn also shall be liable for any violation of this COA caused by, contributed to, or allowed by its successors and assigns.

8. **Transfer of Site.**

   a. The duties and obligations under this COA shall not be modified, diminished, terminated, or otherwise altered by the transfer of any legal or equitable interest in the Plant or any part thereof.

   b. If Penn intends to transfer any legal or equitable interest in the Plant, which is affected by this COA, Penn shall serve a copy of this COA upon the prospective transferee of the legal and equitable interest at least 30 days prior to the completed transfer and shall simultaneously inform the Department's Southcentral Regional Office of such intent.

   c. The Department in its sole discretion may agree to modify or terminate Penn's duties and obligations under this COA upon transfer of the Plant. Penn waives any right that it may have to challenge the Department's decision in this regard.

9. **Correspondence with Department.** All correspondence with the Department concerning this COA shall be addressed to:

Shawn Arbaugh
DEP Water Management Program
Southcentral Regional Office
909 Elmerton Avenue
Harrisburg, PA 17110-8200
Telephone: 717-705-4804
Fax: 717-705-4760

All Civil Penalty payments required under this document shall be made by corporate check or the like, made payable to "The Commonwealth of Pennsylvania, Clean Water Fund", and forwarded as described above.

10. **Correspondence with Penn.** All correspondence with Penn concerning this COA shall be addressed to:

Mr. Jeffrey Garvick, Manager
Penn Township Board of Commissioners
20 Wayne Avenue
Hanover, PA 17331
Telephone: 717-632-7366

Penn shall notify the Department whenever there is a change in the contact person's name, title, or address. Service of any notice or any legal process for any purpose under this COA, including its enforcement, may be made by mailing a copy by first class mail to the above address.

11. **Force Majeure.**

a. In the event that Penn is prevented from complying in a timely manner with any time limit imposed on this COA solely because of a strike, fire, flood, act of God, or other circumstances entirely beyond Penn's control and which Penn, by the exercise of all reasonable diligence, is unable to prevent, then Penn may petition the Department for an extension of time. An increase in the cost of performing the obligations set forth in this COA shall not constitute circumstances beyond Penn's control. Penn's economic inability to comply with any of the obligations of this COA shall not be grounds for any extension of time.

b. Penn shall only be entitled to the benefits of this paragraph if it notifies the Department within five working days by telephone and within ten working days in writing of the date it becomes aware or reasonably should have become aware of the event impeding performance. The written submission shall include all necessary documentation, as well as a notarized affidavit from an authorized individual specifying the reasons for the delay, the expected duration of the delay, and the efforts which have been made and are being made by Penn to mitigate the effects of the event and to minimize the length of the delay. The initial written submission may be supplemented within ten working days of its submission. Penn's failure to comply with the requirements of this paragraph specifically and in a timely fashion shall render this paragraph null and of no effect as to the particular incident involved.

c. The Department will decide whether to grant all or part of the extension requested on the basis of all documentation submitted by Penn and other information available to the Department. In any subsequent litigation, Penn shall have the burden of proving that the Department's refusal to grant the requested extension was an abuse of discretion based upon the information then available to it.

12. **Severability.** The paragraphs of this COA shall be severable and should any part hereof be declared invalid or unenforceable, the remainder shall continue in full force and effect between the parties.

13. **Entire Agreement.** This COA shall constitute the entire integrated agreement of the parties. No prior or contemporaneous communications or prior drafts shall be relevant or admissible for purposes of determining the meaning or extent of any provisions herein in any litigation or any other proceeding.

14. **Attorney Fees.** The parties shall bear their respective attorney fees, expenses, and other costs in the prosecution or defense of this matter or any related matters, arising prior to execution of this COA.

15. **Modifications.** No changes, additions, modifications, or amendments of this COA shall be effective unless they are set out in writing and signed by the parties hereto.

16. **Titles.** A title used at the beginning of any paragraph of this COA is provided solely for the purpose of identification and shall not be used to interpret that paragraph.

17. **Decisions Under Consent Order.** Except as provided in Paragraphs 3.a, 3.b, and 3.c, Any decision which the Department makes under the provisions of this Consent Order and Agreement, including a notice that stipulated civil penalties are due, is intended to be neither a final action under 25 Pa. Code § 1021.2, nor an adjudication under 2 Pa. C.S. § 101. Any objection which Penn may have to the decision will be preserved until the Department enforces this Consent Order and Agreement.

18. **Termination.** Paragraph 4.a of this COA shall terminate when Penn has completed to the Department's satisfaction the actions required in paragraph 3.

IN WITNESS WHEREOF, the parties hereto have caused this Consent Order and Agreement to be executed by their duly authorized representatives. The undersigned representatives of Penn certify under penalty of law, as provided by 18 Pa. C.S. § 4904, that they are authorized to execute this Consent Order and Agreement on behalf of Penn; that Penn consents to the entry of this Consent Order and Agreement as a final ORDER of the Department; and that Penn hereby knowingly waives its right to appeal this Consent Order and Agreement and to challenge its content or validity, which rights may be available under Section 4 of the Environmental Hearing Board Act, Act of July 13, 1988, P.L. 530, 35 P.S. § 7514; the Administrative Agency Law, 2 Pa. C.S. § 103(a) and Chapters 5A and 7A; or any other provisions of law.

FOR PENN TOWNSHIP:

11-17-08

Name: MICHAEL K. JOHNSON JR. Date
Title: PRESIDENT

Name: Date
Title:

Name: Date
Title:

FOR THE COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION:

Lee A. Mcdonnell, P.E. Date
Program Manager
Water Management Program

APPROVED FOR LEGALITY AND FORM

Name: Date
Assistant Counsel

APPENDIX I-8

PENN TOWNSHIP WWTP NPDES PERMIT NO. PA 0037150

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER SUPPLY AND WASTEWATER MANAGEMENT

AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM DISCHARGE REQUIREMENTS FOR PUBLICLY OWNED TREATMENT WORKS (POTWs)

NPDES PERMIT NO. PA 0037150

In compliance with the provisions of the Clean Water Act, 33 U.S.C. Section 1251 *et seq.* ("the Act") and Pennsylvania's Clean Streams Law, as amended, 35 P.S. Section 691.1 *et seq.*,

PENN TOWNSHIP BOARD OF COMMISSIONERS
20 WAYNE AVENUE
HANOVER, PA 17331

is authorized to discharge from a facility known as **Penn Township WWTP**, located in **Penn Township, York County** to **Oil Creek** in **Watershed 7-H** in accordance with effluent limitations, monitoring requirements and other conditions set forth in PARTs A, B, and C hereof.

THIS PERMIT SHALL BECOME EFFECTIVE ON MARCH 1, 2008.

THIS PERMIT SHALL EXPIRE AT MIDNIGHT ON FEBRUARY 28, 2013.

The authority granted by this permit is subject to the following further qualifications:

1. re is a conflict between the application, its supporting documents and/or amendments and the terms and itions of this permit, the terms and conditions shall apply.

2. Failure to comply with the terms, conditions, or effluent limitations of this permit is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. 40 CFR 122.41(a)

3. A complete application for renewal of this permit, or notice of intent to cease discharging by the expiration date, must be submitted to DEP at least 180 days prior to the above expiration date (unless permission has been granted by DEP for submission at a later date), using the appropriate NPDES permit application form. 40 CFR 122.41(b), 122.21(d)

   In the event that a timely and complete application for renewal has been submitted and DEP is unable, through no fault of the permittee, to reissue the permit before the above expiration date, the terms and conditions of this permit, including submission of the Discharge Monitoring Reports (DMRs), will be automatically continued and will remain fully effective and enforceable against the discharger until DEP takes final action on the pending permit application. 25 Pa. Code 92.9.

4. This NPDES permit does not constitute authorization to construct or make modifications to wastewater treatment facilities necessary to meet the terms and conditions of this permit.

DATE PERMIT ISSUED MAR 7 2008 **ISSUED BY** Lee A. McDonnell

DATE PERMIT AMENDMENT ISSUED _____ **TITLE:** **Lee A. McDonnell, P.E.**
Water Management Program Manager

I. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

A. For Outfall 001, Latitude 39°48'49", Longitude 76°57'13", River Mile Index 5.4, Stream Code 08213 Discharging to Oil Creek

which receives wastewater from the wastewater treatment plant.

1. The permittee is authorized to discharge during the period from [redacted] through [redacted].

2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements, Footnotes, and Supplemental Information).

Discharge Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) [1]		Concentrations (mg/L)				Minimum [3] Measurement Frequency	Required Sample Type
	Monthly Average	Weekly Average	Minimum	Monthly Average	Weekly Average	Instantaneous Maximum [2]		
Flow (mgd)	Report	Report Daily Max	XXX	XXX	XXX	XXX	Continuous	Measured
Influent [4] (BOD_5 and TSS)	Report	Report Daily Max	XXX	Report	XXX	XXX	2/Week	24-hr comp
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	1/Day	Grab
Dissolved Oxygen	XXX	XXX	5.0	XXX	XXX	XXX	1/Day	Grab
Total Residual Chlorine	XXX	XXX	XXX	0.14	XXX	0.45	1/Day	Grab
Total Suspended Solids	1,050	1,576	XXX	30	45	60	2/Week	24-hr comp
$CBOD_5$ (5/1 to 10/31)	525	788	XXX	10	15	20	2/Week	24-hr comp
$CBOD_5$ (11/1 to 4/30)	875	1,401	XXX	20	30	40	2/Week	24-hr comp
NH_3-N (5/1 to 10/31)	[redacted]	XXX	XXX	[redacted]	XXX	2.4	2/Week	24-hr comp
NH_3-N (11/1 to 4/30)	[redacted]	XXX	XXX	[redacted]	XXX	7.2	2/Week	24-hr comp
Total Phosphorus	[redacted]	XXX	XXX	[redacted]	XXX	4.0	2/Week	24-hr comp
Fecal Coliform (5/1 to 9/30)[5]	XXX	XXX	XXX	200	XXX	XXX	2/Week	Grab
Fecal Coliform (10/1 to 4/30)[5]	XXX	XXX	XXX	2,000	XXX	XXX	2/Week	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): at discharge from facility.

A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND R RTING REQUIREMENTS

A. Continued.

For Outfall 001, Latitude 39°48'49", Longitude 76°57'13", River Mile Index 5.4, Stream Code 08213 Discharging to Oil Creek

which receives wastewater from the wastewater treatment plant.

1. The permittee is authorized to discharge during the period from March 1, 2008 through February 28, 2013.
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements, Footnotes, and Supplemental Information).

Discharge Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (3) Measurement Frequency	Required Sample Type
	Monthly Average	Weekly Average	Minimum	Monthly Average	Maximum Daily	Instantaneous Maximum (2)		
EHP (Interim)(4)	XXX	XXX	XXX	Monitoring & Report	XXX	XXX	2/Month	8-hr comp
EHP (Final)(4)	XXX	XXX	XXX	0.003	0.006	0.0075	2/Month	8-hr comp
hlorodibromomethane(4) nterim)	XXX	XXX	XXX	Monitor & Report	XXX	XXX	2/Month	8-hr comp
hlorodibromomethane(4) inal)	XXX	XXX	XXX	0.0007	0.0014	0.0018	2/Month	8-hr comp
ichlorobromomethane(4) nterim)	XXX	XXX	XXX	Monitor & Report	XXX	XXX	2/Month	8-hr comp
ichlorobromomethane(4) inal)	XXX	XXX	XXX	0.0009	0.0018	0.0023	2/Month	8-hr comp

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): at discharge from facility.

3. Additional Requirements:

a. The discharger may not discharge floating materials, oil, grease, scum, foam, sheen and substances which produce color, taste, turbidity, or settle to form deposits in concentrations or amounts sufficient to be, or creating a danger of being, inimical to the water uses to be protected or to human, animal, plant, or aquatic life. 25 Pa. Code 92.51(6)

b. Except as otherwise specified in this permit, the 30-day average percent removal for 5-day carbonaceous biochemical oxygen demand ($CBOD_5$) and Total Suspended Solids (TSS) shall not be less than 85 percent. 40 CFR 133.102

c. Effective disinfection to control disease producing organisms from the period of May 1 to September 30 shall be the production of an effluent which will contain a concentration not greater than 200/100 ml of Fecal Coliform colonies as a geometric mean, nor greater than 1,000/100 ml of these colonies in more than 10 percent of the samples tested. 25 Pa Code 92.2c(b)(2)

d. The influent shall be monitored a minimum of twice per week as a 24-hour composite sample. The sample shall be analyzed for Total Suspended Solids and BOD_5.

Footnotes:

(1) When sampling to determine compliance with mass effluent limitations, the discharge flow at the time of sampling must be measured and recorded.

(2) The Instantaneous Maximum Discharge Limitations are for compliance use by DEP only. Do not report instantaneous maximums on DMRs or supplemental DMRs unless specifically required on those forms to do so.

(3) This is the minimum number of sampling events required. Permittees are encouraged, and it may be advantageous in demonstrating compliance, to perform more than the minimum number of sampling events.

(4) See PART C VI for more information.

(5) Fecal Coliform levels are reported as a geometric mean of colonies/100 ml.

Supplemental Information:

° If the permit requires reporting of average weekly limitations, please follow the following guideline. If the "maximum average concentration" and the "maximum average mass loading" does not occur within the same week, both the highest weekly average concentration and the highest weekly average mass load should be reported, regardless of whether they both occur during the same calendar week.

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS (Cont'd) Permit No. PA 0037150

B. For Outfall 001, Latitude 39°48'49", Longitude 76°57'13", River Mile Index 5.4, Stream Code 08213 Discharging to Oil Creek

which receives wastewater from the wastewater treatment plant.

1. The permittee is authorized to discharge during the period from March 1, 2008 through December 30, 2010.

2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and nutrient monitoring requirements apply (see also Additional Requirements).

Discharge Parameter	Effluent Limitations					Monitoring Requirements	
	Mass Load (lbs)		Concentrations (mg/l)			Minimum (2) Measurement Frequency	Required Sample Type
	Monthly	Annual	Minimum	Monthly Average	Maximum		
Ammonia—N	Report	Report	XXX	Report	XXX	2/Week	24-hr Comp
Kjeldahl—N	Report	XXX	XXX	Report	XXX	1/Week	24-hr Comp
Nitrate-Nitrite as N	Report	XXX	XXX	Report	XXX	1/Week	24-hr Comp
Total Nitrogen (1)	Report	Report	XXX	Report	XXX	1/Month	Calculate
Total Phosphorus(1)	Report	Report	XXX	Report	XXX	2/Week	24-hr Comp
Net Total Nitrogen (1)	Report	Report	XXX	XXX	XXX	1/Month	Calculate
Net Total Phosphorus(1)	Report	Report	XXX	XXX	XXX	1/Month	Calculate

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): at discharge from facility.

Footnotes:

(1) See PART C for Chesapeake Bay Requirements.

(2) This is the minimum number of sampling events required. Permittees are encouraged, and it may be advantageous in demonstrating compliance, to perform more than the minimum number of sampling events required.

C. For Outfall 001, Latitude 39°48'49", Longitude 76°57'13", River Mile Index 5.4, Stream Code 08213 Discharging to Oil Creek

which receives wastewater from the wastewater treatment plant.

1. The permittee is authorized to discharge during the period from December 31, 2010 through February 28, 2013.

2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following nutrient effluent limitations and nutrient monitoring requirements apply (see also Additional Requirements).

Discharge Parameter	Effluent Limitations					Monitoring Requirements	
	Mass Load(lbs)		Concentrations (mg/l)				
	Monthly	Annual	Minimum	Monthly Average	Maximum	Minimum (2) Measurement Frequency	Required Sample Type
Ammonia—N	Report	Report	XXX	Report	XXX	2/Week	24-hr Comp
Kjeldahl—N	Report	XXX	XXX	Report	XXX	1/Week	24-hr Comp
Nitrate-Nitrite as N	Report	XXX	XXX	Report	XXX	1/Week	24-hr Comp
Total Nitrogen (1)	Report	Report	XXX	Report	XXX	1/Month	Calculate
Total Phosphorus (1)	Report	Report	XXX	Report	XXX	2/Week	24-hr Comp
Net Total Nitrogen (1)	Report	[redacted]	XXX	XXX	XXX	1/Month	Calculate
Net Total Phosphorus (1)	Report	[redacted]	XXX	XXX	XXX	1/Month	Calculate

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): at discharge from facility.

Footnotes:

(1) See PART C for Chesapeake Bay Requirements.

(2) This is the minimum number of sampling events required. Permittees are encouraged, and it may be advantageous in demonstrating compliance, to perform more than the minimum number of sampling events required.

(3) The original cap load for this permittee has been increased based on the connection of 204 retired on-lot sewage disposal systems to the sewage conveyance system that are tributary to this permittee's wastewater treatment facility. Twenty-five pounds of Total Nitrogen as N for each retired on-lot disposal system was added to the original cap load adding [redacted] pounds of Total Nitrogen as N to the originally determined cap load. A complete list of addresses of the dwellings that were served by the retired on-lot systems that are now connected to the sewage conveyance system is contained in the Water Quality Protection Report. Any additional offsets claimed during the permit term must be reported as outlined in PART C of this permit.

ART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS (Cont'd)

E. For Outfall 002, Latitude 39°48'49", Longitude 76°57'13", River Mile Index 5.4, Stream Code 08213 Discharging to Oil Creek

which receives wastewater from the stormwater retention pond.

1. The permittee is authorized to discharge during the period from March 1, 2008 through February 28, 2013.

2. Outfall 002 serves as a stormwater outfall for the Stormwater Retention Pond. Refer to PART C - "Requirements Applicable to Storm-water Outfalls" for permit conditions and management practices.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): at Outfall 002.

II. DEFINITIONS

At Outfall (XXX) means a sampling location in outfall line XXX below the last point at which wastes are added to outfall line (XXX), or where otherwise specified.

Average refers to the use of an arithmetic mean, unless otherwise specified in this permit. 40 CFR 122.41(l)(4)(iii)

Best Management Practices (BMPs) means schedules of activities, prohibitions of practices, maintenance procedures and other management practices to prevent or reduce the pollution to surface waters of the Commonwealth. BMPs also include treatment requirements, operating procedures and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage. 25 Pa. Code 92.1

Bypass means the intentional diversion of waste streams from any portion of a treatment facility. 40 CFR 122.41(m)(1)(i)

Calendar Week is defined as the seven consecutive days from Sunday through Saturday, unless the permittee has been given permission by the Department to provide weekly data as Monday through Friday based on showing excellent performance of the facility and a history of compliance. In cases when the week falls in two separate months, the month with the most days in that week shall be the month for reporting.

Clean Water Act means the Federal Water Pollution Control Act, as amended. (33 U.S.C.A. §§1251 to 1387).

Composite Sample (for all except GC/MS volatile organic analysis) means a combination of individual samples (at least eight for a 24-hour period or four for an 8-hour period) of at least 100 milliliters (mL) each obtained at spaced time intervals during the compositing period. The composite must be flow-proportional; either the volume of each individual sample is proportional to discharge flow rates, or the sampling interval is proportional to the flow rates over the time period used to produce the composite. EPA Form 2C

Composite Sample (for GC/MS volatile organic analysis) consists of at least four aliquots or grab samples collected during the sampling event (not necessarily flow proportioned). The samples must be combined in the laboratory immediately before analysis and then one analysis is performed. EPA Form 2C

Daily Average Temperature means the average of all temperature measurements made, or the mean value plot of the record of a continuous automated temperature recording instrument, either during a calendar day or during the operating day if flows are of a shorter duration.

Daily Discharge means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the "daily discharge" is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurement, the "daily discharge" is calculated as the average measurement of the pollutant over the day. 25 Pa. Code 92.1 and 40 CFR 122.2

Daily Maximum Discharge Limitation means the highest allowable "daily discharge."

Discharge Monitoring Report (DMR) means the DEP or EPA supplied form(s) for the reporting of self-monitoring results by the permittee. 40 CFR 122.2

Estimated Flow means any method of liquid volume measurement based on a technical evaluation of the sources contributing to the discharge including, but not limited to, pump capabilities, water meters and batch discharge volumes.

Geometric Mean means the average of a set of n sample results given by the nth root of their product.

Grab Sample means an individual sample of at least 100 mL collected at a randomly selected time over a period not to exceed 15 minutes. EPA Form 2C

Hazardous Substance means any substance designated under 40 CFR Part 116 pursuant to Section 311 of the Clean Water Act. 40 CFR 122.2

Immersion Stabilization (i-s) means a calibrated device is immersed in the wastewater until the reading is stabilized.

Indirect Discharger means a person who discharges sewage, industrial waste or other pollutants into a treatment works. 25 Pa. Code 92.1

Industrial User means those industries identified in the Standard Industrial Classification Manual, Office of Management and Budget, 1987, as amended and supplemented, under the category "Division D-Manufacturing" and other classes of significant waste producers, as by regulation, the Administrator deems appropriate. 25 Pa. Code 92.1

Instantaneous Maximum means the highest allowable discharge of a concentration of a substance at any one time as measured by a grab sample. 25 Pa. Code 92.1

Measured Flow means any method of liquid volume measurement, the accuracy of which has been previously demonstrated in engineering practice, or for which relationship to absolute volume has been obtained.

Monthly Average Discharge Limitation means the highest allowable average of "daily discharges" over a calendar month, calculated as the sum of all "daily discharges" measured during a calendar month divided by the number of "daily discharges" measured during that month.

Municipality means a city, town, borough, country, parish, district, association or other public body created by or pursuant to State law and having jurisdiction over disposal of sewage, industrial wastes, or other wastes, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under § 1288 of the Clean Water Act. 40 CFR 122.2

Publicly Owned Treatment Works (POTW) means a treatment works as defined by § 212. of the Clean Water Act, owned by a municipality. The definition includes any devices and systems used in the storage, treatment, recycling and reclamation of municipal sewage or industrial wastes of a liquid nature. It also includes sewers, pipes or other conveyances if they convey wastewater to a POTW providing treatment. 25 Pa Code 92.1 and 40 CFR 122.2

Severe Property Damage means substantial physical damage to property, damage to the treatment facilities that causes them to become inoperable, or substantial and permanent loss of natural resources that can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production. 40 CFR 122.41(m)(1)(ii)

Stormwater means the runoff from precipitation, snow melt runoff, and surface runoff and drainage. 25 Pa. Code 92.1

Stormwater Associated With Industrial Activity means the discharge from any conveyance which is used for collecting and conveying stormwater and which is directly related to manufacturing, processing or raw materials storage areas as defined at: 40 CFR 122.26(b)(14) and 25 Pa. Code 92.1.

Toxic Pollutant means those pollutants, or combinations of pollutants, including disease-causing agents, which after discharge and upon exposure, ingestion, inhalation or assimilation into any organism, either directly from the environment or indirectly by ingestion through food chains may, on the basis of information available to DEP cause death, disease, behavioral abnormalities, cancer, genetic mutations, physiological malfunctions, including malfunctions in reproduction, or physical deformations in these organisms or their offspring. 25 Pa. Code 92.1

Weekly Average Discharge Limitation means the highest allowable average of "daily discharges" over a calendar week, calculated as the sum of all "daily discharges" measured during a calendar week divided by the number of "daily discharges" measured during that week.

SELF-MONITORING, REPORTING AND RECORDKEEPING

A. Representative Sampling 40 CFR 122.41(j)(1)

1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

2. Records Retention 40 CFR 122.41(j)(2)

   Except for records of monitoring information required by this permit related to the permittee's sludge use and disposal activities which shall be retained for a period of at least five years, all records of monitoring activities and results (including all original strip chart recordings for continuous monitoring instrumentation and calibration and maintenance records), copies of all reports required by this permit, and records of all data used to complete the application for this permit shall be retained by the permittee for three years from the date of the sample measurement, report or application. The three-year period shall be extended as requested by DEP or the EPA Regional Administrator.

3. Recording of Results 40 CFR 122.41(j) (3)

   For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

   a. The exact place, date and time of sampling or measurements.
   b. The person(s) who performed the sampling or measurements.
   c. The date(s) the analyses were performed.
   d. The person(s) who performed the analyses.
   e. The analytical techniques or methods used; and the associated detection level.
   f. The results of such analyses.

4. Test Procedures 40 CFR 122.41(j)(4)

   Facilities that test or analyze environmental samples used to demonstrate compliance with this permit shall be in compliance with laboratory accreditation requirements of Act 90 of 2002 (27 Pa. C.S. §§ 4101-4113), relating to environmental laboratory accreditation. Unless otherwise specified in this permit, the test procedures for the analysis of pollutants shall be those approved under 40 CFR Part 136 (or in the case of sludge use or disposal, approved under 40 CFR Part 136, unless otherwise specified in 40 CFR Part 503 or Subpart J of 25 Pa. Code Chapter 271), or alternate test procedures approved pursuant to those parts, unless other test procedures have been specified in this permit.

5. Quality/Assurance/Control

   In an effort to assure accurate self-monitoring analyses results:

   a. The permittee, or its designated laboratory, shall participate in the periodic scheduled quality assurance inspections conducted by DEP and EPA. 40 CFR 122.41(e), 122.41(j)(3)

   b. The permittee, or its designated laboratory, shall develop and implement a program to assure the quality and accurateness of the analyses performed to satisfy the requirements of this permit, in accordance with 40 CFR Part 136. 40 CFR 122.4(j)(4)

B. Reporting of Monitoring Results

1. The permittee shall effectively monitor the operation and efficiency of all wastewater treatment and control facilities, and the quantity and quality of the discharge(s) as specified in this permit. 40 CFR 122.41(e) and 40 CFR 122.44(i)(1)

2. Unless instructed otherwise in PART C of this permit, a properly completed DMR must be received by the following address within 28 days after the end of each monthly report period:

   Department of Environmental Protection
   Water Management Program
   909 Elmerton Avenue
   Harrisburg, PA 17110-8200

3. The completed DMR Form shall be signed and certified either by the following applicable person, as defined in 25 Pa. Code § 92.23:

   - For a corporation - by a principal executive officer of at least the level of vice president, or an authorized representative, if the representative is responsible for the overall operation of the facility from which the discharge described in the NPDES form originates.

   - For a partnership or sole proprietorship - by a general partner or the proprietor, respectively.

   - For a municipality, state, federal, or other public agency - by a principal executive officer or ranking elected official.

   If signed by a person other than the above, written notification of delegation of DMR signatory authority must be submitted to DEP in advance of or along with the relevant DMR form.

4. If the permittee monitors any pollutant at monitoring points as designated by this permit, using analytical methods described in PART A III.A.4. herein, more frequently than the permit requires, the results of this monitoring shall be incorporated, as appropriate, into the calculations used to report self-monitoring data on the DMR.

C. Reporting Requirements

1. Planned Changes 40 CFR 122.41(l)(1) - The permittee shall give notice to DEP as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required when:

   a. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR §122.29(b).

   b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are not subject to effluent limitations in this permit.

   c. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.

2. Anticipated Noncompliance

   The permittee shall give advance notice to DEP of any planned changes in the permitted facility or activity that may result in noncompliance with permit requirements. 40 CFR 122.41(l)(2)

3. Unanticipated Noncompliance or Potential Pollution Reporting

   a. Immediate Reporting - The permittee shall report incidents causing or threatening pollution in accordance with the requirements of 25 Pa. Code Section 91.33. If because of an accident, other activity, or incident a toxic substance or another substance which would endanger users downstream from the discharge, or would otherwise result in pollution or create a danger of pollution or would damage property, the permittee shall immediately notify the Department by telephone of the location and nature of the danger and if reasonably possible to do so, notify downstream users of the waters of the Commonwealth to which the substance was discharged. Such notice shall include the location and nature of the danger. The permittee shall immediately take or cause to be taken steps necessary to prevent injury to property and downstream users of the waters from pollution or a danger of pollution and, in addition, within 15 days from the incident, shall remove the residual substances contained thereon or therein from the ground and from the affected waters of this Commonwealth to the extent required by applicable law.

b. The permittee shall report any noncompliance which may endanger health or the environment in accordance with the requirements of 40 CFR 122.41(l)(6). These requirements include the following obligations:

(1) 24-Hour Reporting - The permittee shall orally report any noncompliance with this permit which may endanger health or the environment within 24 hours from the time the permittee becomes aware of the circumstances. The following shall be included as information which must be reported within 24 hours under this paragraph:

(a) Any unanticipated bypass which exceeds any effluent limitation in the permit;

(b) Any upset which exceeds any effluent limitation in the permit; and

(c) Violation of the maximum daily discharge limitation for any of the pollutants listed in the permit as being subject to the 24-hour reporting requirement. Note: see 40 CFR 122.44(g).

(ii) Written Report - A written submission shall also be provided within five days of the time the permittee becomes aware of any noncompliance which may endanger health or the environment. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

(iii) Waiver of Written Report - DEP may waive the written report on a case-by-case basis if the associated oral report has been received within 24 hours from the time the permittee becomes aware of the circumstances which may endanger health or the environment. Unless such a waiver is expressly granted by the Department, the permittee shall submit a written report in accordance with this paragraph. 40 CFR 122.41(l)(6)(iii)

4. Other Noncompliance

The permittee shall report all instances of noncompliance not reported under paragraph C.3 of this section or specific requirements of compliance schedules, at the time DMRs are submitted. The reports shall contain the information listed in paragraph C.3.b.(ii) of this section. 40 CFR 122.41(l)(7)

PART B

MANAGEMENT REQUIREMENTS

A. Compliance Schedules 25 Pa. Code 92.55 and 40 CFR 122.47(a).

1. The permittee shall achieve compliance with the terms and conditions of this permit within the time frames specified in this permit.

2. The permittee shall submit reports of compliance or noncompliance, or progress reports as applicable, for any interim and final requirements contained in this permit. Such reports shall be submitted no later than 14 days following the applicable schedule date or compliance deadline. 40 CFR 122.47(a)(4)

B. Permit Modification, Termination, or Revocation and Reissuance

1. This permit may be modified, terminated, or revoked and reissued during its term in accordance with Title 25 Pa. Code 92.51(2) and 40 CFR 122.41(f).

2. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition. 40 CFR 122.41(f)

3. In the absence of DEP action to modify or revoke and reissue this permit, the permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants within the time specified in the regulations that establish those standards or prohibitions. 40 CFR 122.41(a)(1)

C. Duty to Provide Information

1. The permittee shall furnish to DEP, within a reasonable time, any information which DEP may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. 40 CFR 122.41(h)

2. The permittee shall furnish to DEP, upon request, copies of records required to be kept by this permit. 25 Pa. Code 92.51(3)(ii) and 40 CFR 122.41(h)

3. Other Information - Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to DEP, it shall promptly submit the correct and complete facts or information. 40 CFR 122.41(l)(8)

4. The permittee shall provide the following information in the annual Municipal Wasteload Management Report, required under the provisions of Title 25 Pa. Code Chapter 94 unless a more stringent time period is required by law, regulation or permit condition in which case the more stringent time period will apply:

a. A new introduction of pollutants into the POTW from an indirect discharger which would be subject to Sections 301 and 306 of the Clean Water Act if it were directly discharging pollutants. 40 CFR 122.42(b)(1)

b. A substantial change in the volume or character of pollutants being introduced into the POTW by an indirect discharger introducing pollutants into the POTW at the time of issuance of this permit. 40 CFR 122.42(b)(2)

c. Information on the quality and quantity of the effluent introduced into the POTW by an industrial user or an indirect discharger and the anticipated impact of the change in the quality and quantity of effluent to be discharged from the POTW. 40 CFR 122.42(b)(3)

d. The identity of the industrial users served by the POTW which are subject to pretreatment standards adopted under Section 307(b) of the Clean Water Act; the POTW shall also specify the total volume of discharge and estimate concentration of each pollutant discharged into the POTW by the industrial user. 25 Pa. Code 92.53(c)

e. The POTW shall require all industrial users of the treatment works to comply with the reporting requirements of Sections 204(b), 307, and 308 of the Clean Water Act and regulations thereunder. 25 Pa. Code 92.53(c)

D. Proper Operation and Maintenance

1. The permittee shall employ operator's certified in compliance with the Water and Wastewater Systems Operators Certification Act (63 P.S. §§ 1001-1015.1).

2. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the terms and conditions of this permit. Proper operation and maintenance includes, but is not limited to, adequate laboratory controls including appropriate quality assurance procedures. This provision also includes the operation of backup or auxiliary facilities or similar systems that are installed by the permittee, only when necessary to achieve compliance with the terms and conditions of this permit. 40 CFR 122.41(e)

E. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge, sludge use, or disposal in violation of this permit that has a reasonable likelihood of adversely affecting human health or the environment. 40 CFR 122.41(d)

F. Bypassing

1. Bypassing Not Exceeding Permit Limitations - The permittee may allow a bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions in paragraphs 2, 3, and 4 of this section. 40 CFR 122.41(m)(2)

2. Other Bypassing - In all other situations, bypassing is prohibited and DEP may take enforcement action against the permittee for bypass unless:

a. A bypass is unavoidable to prevent loss of life, personal injury, or "severe property damage." 40 CFR 122.41(m)(4)(i)(A)

b. There are no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate backup equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance. 40 CFR 122.41(m)(4)(i)(B)

c. The permittee submitted the necessary notice required in F.4.a and b below. 40 CFR 122.41(m)(4)(i)(C)

3. DEP may approve an anticipated bypass, after considering its adverse effects, if DEP determines that it will meet the conditions listed in F.2 above. 40 CFR 122.41(m)(4)(ii)

4. Notice

a. Anticipated Bypass – If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible, at least ten days before the bypass.

b. Unanticipated Bypass

(1) The permittee shall submit immediate notice of an unanticipated bypass causing or threatening pollution. The notice shall be in accordance with PART A III.C.3.a.

(2) The permittee shall submit oral notice of any other unanticipated bypass within 24 hours, regardless of whether the bypass may endanger health or the environment or whether the bypass exceeds effluent limitations. The notice shall be in accordance with PART A III.C.3.b.

I. PENALTIES AND LIABILITY

A. Violations of Permit Conditions

Any person violating Sections 301, 302, 306, 307, 308, 318 or 405 of the Clean Water Act or any permit condition or limitation implementing such sections in a permit issued under Section 402 of the Act is subject to civil, administrative and/or criminal penalties as set forth in 40 CFR § 122.41(a)(2).

Any person or municipality, who violates any provision of this permit; any rule, regulation or order of DEP; or any condition or limitation of any permit issued pursuant to The Clean Streams Law, is subject to criminal and/or civil penalties as set forth in Sections 602, 603 and 605 of The Clean Streams Law.

B. Falsifying Information

Any person who does any of the following:

- Falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit, or

- Knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit (including monitoring reports or reports of compliance or noncompliance).

Shall upon conviction, be punished by a fine and/or imprisonment as set forth in 18 Pa. C. S. A. § 4904 and 40 CFR § 122.41(j)(5) and (k)(2).

C. Responsibility

Nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance pursuant to Section 309 of the Clean Water Act or Sections 602, 603 or 605 of The Clean Streams Law.

Nothing in this permit shall be construed to preclude the institution of any legal action or to relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject to under the Clean Water Act and The Clean Streams Law.

D. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. 40 CFR 122.41(c)

I. OTHER RESPONSIBILITIES

A. Right of Entry

Pursuant to Sections 5(b) and 305 of Pennsylvania's Clean Streams Law, and Title 25 Pa. Code Chapter 92 and 40 CFR § 122.41(i), the permittee shall allow authorized representatives of DEP and EPA, upon the presentation of credentials and other documents as may be required by law:

1. To enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit. 25 Pa. Code 92.51(3)(i) and 40 CFR 122.41(i)(1)

2. To have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit. 25 Pa. Code 92.51(3)(ii) and 40 CFR 122.41(i)(2)

3. To inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices or operations regulated or required under this permit. 40 CFR 122.41(i)(3)

4. To sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act or The Clean Streams Law, any substances or parameters at any location. 40 CFR 122.41(i)(4)

B. Transfer of Permits

1. Transfers by modification. Except as provided in paragraph 2 of this section, a permit may be transferred by the permittee to a new owner or operator only if this permit has been modified or revoked and reissued, or a minor modification made to identify the new permittee and incorporate such other requirements as may be necessary under the Clean Water Act. 40 CFR 122.61(a)

2. Automatic transfers. As an alternative to transfers under paragraph 1 of this section, any NPDES permit may be automatically transferred to a new permittee if:

   a. The current permittee notifies DEP at least 30 days in advance of the proposed transfer date in paragraph 2.b of this section. 25 Pa. Code 92.71a(1) and 40 CFR 122.61(b)(1)

   b. The notice includes the appropriate DEP transfer form signed by the existing and new permittees containing a specific date for transfer of permit responsibility, coverage and liability between them. 25 Pa. Code 92.71a(2) and 40 CFR 122.61(b)(2)

   c. If DEP does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue this permit, the transfer is effective on the date specified in the agreement mentioned in paragraph 2.b of this section. 25 Pa. Code 92.71a(3) and 40 CFR 122.61(b)(3)

   d. The new permittee is in compliance with existing Department issued permits, regulations, orders, and schedules of compliance, or that any noncompliance with the existing permits has been resolved by an appropriate compliance action or by the terms and conditions of the permit (including compliance schedule set forth in the permit), consistent with § 92.55 (relating to schedules of compliance) and other appropriate Department regulations. 25 Pa. Code 92.71a(4)

3. In the event DEP does not approve transfer of this permit, the new owner or controller must submit a new permit application.

C. Property Rights

The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege. 40 CFR 122.41(g)

D. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for a new permit. 40 CFR 122.21(d)

E. Other Laws

The issuance of this permit does not authorize any injury to persons or property or invasion of other private rights, or any infringement of state or local law or regulations.

PART C

SCHEDULE

A. **Timing For Effective Dates Of Effluent Limitations.** The following schedule applies to effluent limitations in this permit:

Provision Containing Effluent Limitation	Effective Date
PART A I.A.2	Permit Effective Date thru Permit Expiration
PART A I.B.2	Permit Effective Date thru December 30, 2010
PART A I.C.2	December 31, 2010 thru Permit Expiration

The permittee shall achieve compliance with all other terms and conditions of this permit upon the effective date of the permit, unless otherwise specified.

. **Compliance Schedule.** The permittee shall be in compliance with effluent limitations for Nitrogen and Phosphorus contained in PART A I.C.2, or terminate this discharge, in accordance with the following schedule:

Activity	Due Date
1. Submit Update to Act 537 Sewage Facilities Plan	Not Applicable
2. Submit WQM Part II Permit Application	~~March 31, 2008~~ 4/30/09
3. Award Contract for Construction or Begin Implementation	~~November 15, 2009~~ 3/31/10
4. Construction or Implementation Progress Report(s)	Quarterly
5. Issue Certification of Substantial Completion (Plant Fully Operational)	~~December 31, 2010~~ 6/30/11
6. Compliance with effluent limitations	September 30, 2012

:. No later than 14 calendar days following the date identified in the above schedule of compliance, the permittee shall submit to the Department a written notice of compliance or noncompliance with the specific schedule requirement(s) to:

NPDES Compliance Specialist
Department of Environmental Protection
Water Management Program
909 Elmerton Avenue
Harrisburg, PA 17110-8200

Rev'd
Per telecon with DEP,
Mr. Jay Patel 06/09/08.
Rev'd permit to be issued.

). Each notice of noncompliance, at a minimum, shall include the following information:

1. A description of the noncompliance.
2. A description of any actions taken or proposed by the permittee to comply with the elapsed schedule requirement.
3. A description of any factors which tend to explain or mitigate the noncompliance.
4. An estimate of the date that compliance with the elapsed schedule requirement will be achieved and an assessment of the probability that the next scheduled requirement will be met on time.
5. evised schedule of compliance for Department approval.

CHESAPEAKE BAY NUTRIENT REQUIREMENTS

A. General

1. The Net Total Nitrogen and Net Total Phosphorus mass load effluent limitations in PART A I.B and A I.C are required in order to meet the downstream water quality standards of the State of Maryland, as required by 25 Pa. Code Chapter 92, the federal Clean Water Act and implementing regulations. These effluent limitations do not reflect credits applied or sold or offsets applied, during this permit cycle.

2. The Total Nitrogen and Total Phosphorus Mass Load (actual mass load being discharged) shall be reported in the monthly Supplemental Discharge Monitoring Reports ("Supplemental DMR"). The total mass load will not equal the net total mass load if credits are applied or sold, or if offsets are applied. The mass loads for compliance purposes are "Net Total Nitrogen" and "Net Total Phosphorus" reported as pounds per year on the Discharge Monitoring Report. Instruction for tracking credits and offset came be found in PART C II.C.10 – Tracking Offsets and Credits. The number of credits purchased can be determined by viewing the Department's Nutrient Trading Website at http://www.dep.state.pa.us *Keyword "Nutrient Trading"*. The number of credits applied or sold, or offsets applied may change during the compliance year and subsequent truing period.

3. The Definitions in paragraph B apply to terms used in PART A and in the Supplemental DMR forms.

4. The Annual Nutrient Summary DMR shall be submitted no later than November 28th following the end of a compliance year for determination of compliance with the Net Total Nitrogen and Net Total Phosphorus Effluent Limits.

B. Definitions

1. Monthly Total Mass Load (lbs) = The sum of the actual daily discharge loads (lb/d) divided by the number of samples per month multiplied by the number of days in the month. Daily discharge load (lb/d) = Daily flow (MGD) on the day of sampling, multiplied by that day's sample concentration (mg/l) multiplied by 8.34.

2. Annual Total Mass Load (lbs) = The sum of the Monthly Total Mass Loads for one year beginning October 1st and ending September 30th.

3. Total Nitrogen = Kjeldahl-N plus Nitrate-Nitrite as N.

4. Compliance Year = The year long period starting October 1 and ending September 30. The compliance year will be named for the year in which it ends. Example: The period of October 1, 2010 through September 30, 2011 is compliance year 2011.

5. Truing period = The time allowed at the end of each compliance year for any entity to come into compliance through the application of credits towards the Annual Net Mass Loads. This truing period will start on October 1st and end on November 28 of the same calendar year. During this period, compliance for the specified year may be achieved by using registered credits that were generated during that compliance year. Example: Credits that are used to achieve compliance in compliance year 2011 must have been generated during compliance year 2011.

6. Monthly Net Mass Load =Monthly Total Mass Load + Total Credits sold during the month –Total Credits applied during the month – (Offsets applied/12)

7. Annual Net Mass Load (lb/year) = The sum of the Monthly Net Mass Loads for one year beginning October 1st and ending September 30th.

8. Certification: Written approval by the Department for the use of proposed or implemented activities to generate credits and/or offsets. Certifications are based on at least: 1) a credit or offset proposal to be submitted describing the qualifying activities that will reduce the nutrient loadings delivered to the Chesapeake Bay, 2) the calculation to quantify the pounds of reductions expected, and 3) a verification plan that, when implemented, ensures that the qualifying nutrient reduction activities have taken place.

9. Verification: Implementation of the verification plan contained in a certified credit or offset proposal as required by the Department. Verification plans require annual submittal of documentation to the Department that demonstrates that the qualifying nutrient reduction activities have taken place for the applicable compliance year.

10. Registration: Approval by the Department of the use of credits or offsets in a permit. Registration will not occur until credits have been certified and verified, and for credits a trading contract has been submitted to the Department. The Department will register credits on an annual basis for use during the compliance year in which the qualifying nutrient reduction activities have taken place, and provide such credits with an annual registry number for reporting and tracking purposes.

C. Nutrient Credits and Offsets

1. Credit = The unit of compliance that corresponds with a pound of reduction of TP, TN or sediment as recognized by the Department which, when registered by the Department, may be used to comply with effluent limits.

2. Offset = Verb - The act of reducing the aggregate production of nutrients from an action or activity by use of a complimentary action, activity or technology on that site or directly related to the activity. Noun - The load in pounds of nitrogen or phosphorus created by an action, activity, or technology that is available to apply against the proposed load to be generated. Offsets are not the same as credits as they cannot be directly bought, sold or transferred between owners, projects, or properties.

3. The permittee is authorized to apply nitrogen and phosphorus credits to this permit in order to comply with the Net Total Nitrogen and Net Total Phosphorus annual mass load effluent limits, when the credits are recognized by the Department through a trading program administered by the Department pursuant to "Final Trading of Nutrient and Sediment Reduction Credits – Policy and Guidelines," including all Attachments and Appendices.

4. Credits may be applied to the compliance obligations of this permit up until November 28 of the calendar year at the end of the current compliance period (e.g., if the period is the 12 months following September 30, 2010, credits may be applied up until November 28, 2011).

5. Whenever credits are applied or sold report the following, using the Supplemental DMR form:

   - Provide the registry number and trade effective dates.

   - Provide the type (nitrogen, phosphorus) and the number of credits purchased or sold of each.

6. Any time a contract expires during the term of this permit, the Department must be notified 30 days prior to the contract expirations and either a new contract provided or a discussion on how compliance with this permit will be achieved.

7. All credit transactions must be on the DEP's Trading website which can be viewed at: www.dep.state.pa.us *Keyword "Nutrient Trading".*

8. Offsets approved by DEP are to be reported and used in calculating the net monthly mass load.

9. All credits must be certified by the Department and verified for the year in which they are used for compliance with this permit.

10. Tracking Offsets and Credits:

    a. Credits – The use of credits shall be tracked on supplemental DMR forms provided with this permit. As identified on the forms entitled *DMR Supplemental-Nitrogen* and *DMR Supplemental-Phosphorus* the forms shall be submitted when a registered credit is used to satisfy effluent limits. Additionally, *the Annual Nutrient Summary DMR* shall be submitted no later than November 28th following the end of the compliance year. Credits are only for the compliance year in which they are used and must be reported each year.

b. Offsets – The use of offsets shall be tracked on supplemental DMR forms provided with this permit. As identified on the forms entitled *DMR Supplemental-Nitrogen* and *DMR Supplemental-Phosphorus*, the forms shall be submitted when offsets are claimed. Additionally, the *Annual Nutrient Summary DMR* shall be submitted no later than November 28th following the end of the compliance year. Some offsets will be deemed as permanent and can be claimed each year. Offsets must be reported each year during the permit cycle. Offsets deemed to be permanent can be used to adjust cap loads in future permits.

If an offset is approved during the compliance year, the offset generated shall be divided by twelve and applied to each monthly net mass load after the offset is approved. For example, 40-homes formerly utilizing on-lot systems are placed on public sanitary sewer service. The Nitrogen offset of 25 lbs/year per home would be applicable. The offsets are approved in May of the compliance year, so the offset would be applied as follows:

(40-homes x 25 lbs / home) / 12 months = 83 lbs/month

For each month following approval of the offset, 83 lbs of Nitrogen will be applied as an offset each month to the Monthly Net Mass Load.

D. Offsets granted by connection of retired on-lot systems.

The permittee is responsible to maintain records that show that the on-lot systems existed or were put in place prior to January 1, 2003, and eliminated by connecting the dwellings to the sewage conveyance system after January 1, 2003. These records must verify when the on-lot system was built, when the on-lot system was taken out of service, and when the dwelling was connected to the sewage conveyance system. These records must be maintained by the permittee as long as the offsets are counted toward the permittee's cap load. The permittee must make these records available for public inspection.

II. REQUIREMENTS APPLICABLE TO STORMWATER OUTFALLS

A. Prohibition of Non-stormwater Discharges

1. Except as provided in A.2, all discharges to Stormwater Outfall 002 shall be composed entirely of stormwater.

2. The following non-polluting water discharges may be authorized, provided the discharge is in compliance with D.2.b: discharges from fire fighting activities; fire hydrant flushings, potable water sources including waterline flushings, irrigation drainage, lawn watering, routine external building washdown which does not use detergents or other compounds, pavement washwaters where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed) and where detergents are not used, air conditioning condensate, springs, uncontaminated groundwater, and foundation or footing drains where flows are not contaminated with process materials such as solvents.

B. Spills

This permit does not authorize the discharge of any polluting substances resulting from an on-site spill. Such spills shall be controlled through proper implementation of a PPC Plan as stated in Section D below.

C. This permit does not authorize any discharge (stormwater or non-stormwater) containing any pollutant that may cause or contribute to an impact on aquatic life or pose a substantial hazard to human health or the environment due to its quantity or concentration.

D. Preparedness, Prevention and Contingency Plans

1. Development of Plan

Operators of facilities shall have developed a Preparedness, Prevention and Contingency (PPC) Plan in accordance with 25 Pa. Code § 91.34 and the "Guidelines for the Development and Implementation of Environmental Emergency Response Plans". The PPC Plan shall identify potential sources of pollution that may reasonably be expected to affect the quality of stormwater discharges from the facility. In addition, the PPC Plan shall describe the BMPs that are to be used to reduce the pollutants in stormwater discharges at the facility ensuring compliance with the terms and conditions of this permit.

2. Non-stormwater Discharges

   a. The PPC Plan shall contain a certification that the discharge has been tested or evaluated for the presence of non-stormwater discharges. The certification shall include the identification of potential significant sources of non-stormwater at the site, a description of the results of any test and/or evaluation for the presence of non-stormwater discharges, the evaluation criteria or testing methods used, the date of any testing and/or evaluation, and the on-site drainage points that were directly observed during the test. Such certification may not be feasible if the facility operating the stormwater discharge does not have access to an outfall, manhole, or other point of access to the ultimate conduit that receives the discharge. In such cases, the source identification section of the PPC Plan shall indicate why the certification was not feasible. A discharger that is unable to provide the certification must notify the Department within 180 days of the effective date of this permit.

   b. Except for flows from fire fighting activities, sources of non-stormwater listed in A.2. (authorized non-stormwater discharges) that are combined with stormwater discharges must be identified in the plan. The plan shall identify and ensure the implementation of appropriate pollution prevention measures for the non-stormwater component(s) of the discharge.

Comprehensive Site Compliance Evaluations and Record Keeping

Qualified personnel shall conduct site compliance evaluations at least once a year. Such evaluations shall include:

   a. Visual inspection and evaluation of areas contributing to a stormwater discharge for evidence of, or the potential for, pollutants entering the drainage system. Measures to reduce pollutant loadings shall be evaluated to determine whether they are adequate and properly implemented in accordance with the terms of the permit or whether additional control measures are needed. Structural stormwater management measures, sediment and erosion control measures, and other structural pollution prevention measures identified in the plan shall be observed to ensure that they are operating correctly. A visual inspection of equipment needed to implement the plan, such as spill response equipment, shall be made.

   b. Based on the results of the inspection, the description of potential pollutant sources identified in the PPC plan, and pollution prevention measures and controls identified in the plan shall be revised as appropriate within 15 days of such inspection and shall provide for implementation of any changes to the plan in a timely manner, but in no case more than 90 days after the inspection.

   c. A report summarizing the scope of the inspection, using the DEP's Annual Inspection Form shall be completed and made available upon request and retained as part of the PPC Plan for at least one year after coverage under this permit terminates.

E. Stormwater Management Best Management Practices (BMPs)

The permittee shall implement at least the following BMPs:

1. Manage sludge in accordance with all applicable permit requirements.

2. Store chemicals in secure areas on impervious surfaces away from storm drains.

3. Consider routing stormwater contaminated within the treatment facility to the treatment facility or cover exposed materials (i.e., from the following areas: grit, screenings and other solids handling, storage or disposal areas; sludge drying beds; dried sludge piles; composite piles, septage or hauled waste receiving station).

4. Efficiently use pesticides for weed control; where practicable investigate use of the least toxic pesticides; do not apply during windy conditions.

5. Do not wash parts or equipment over impervious surfaces that wash into storm drains.

6. Conduct Good Housekeeping Practices.

7. Implement infiltration techniques, including infiltration basins, trenches, dry wells, porous pavements, etc., wherever practicable.

F. Stormwater Sampling and Reporting

1. At least one sample of the retention pond discharge must be collected annually, unless no discharge from the pond occurs during the year. The sample must be analyzed for the parameters listed in Part A.2 of the permit with the exception that the parameters of BEHP, Chlorodibromomethane, and Dichlorobromomethane will not be required to be tested in the sample. The sample shall be collected as grab sample during the first 30 minutes, but no later than one hour of the discharge resulting from a storm event that occurs at least 72 hours from the previously measurable storm event.

2. When the discharger is unable to collect samples due to adverse climatic conditions, the discharger must submit, in lieu of sampling data, a description of why samples could not be collected, including available documentation of the event. This sampling waiver may not be used more than once during a two-year period.

3. Stormwater monitoring results shall be summarized on a DMR form and the Department's "Additional Information for the Reporting of Stormwater Monitoring" form.

/I. INDUSTRIAL PRETREATMENT PROGRAM IMPLEMENTATION

A. *General Requirement* – The permittee shall implement an industrial pretreatment program in accordance with the federal Clean Water Act, The Pennsylvania Clean Streams Law, and the federal General Pretreatment Regulations (40 CFR 403). The program shall also be implemented in accordance with the pretreatment program, and any modifications submitted by the permittee and approved by the Approval Authority.

B. *Annual Report and Other Requirements* – The permittee shall submit an Annual Report by March 31 of each year to DEP and EPA that describes the permittee's pretreatment activities of the previous calendar year. The Annual Report shall include a description of pretreatment activities in all municipalities from which wastewater is received. The submission to DEP will be incorporated into the permittee's Annual Municipal Wasteload Management Report required by 25 Pa. Code, Chapter 94, of the Department's Rules and Regulations. The Annual Report shall contain the following:

1. *Control Mechanism Issuance* – The Annual Report shall contain a summary of Significant Industrial User (SIU) control mechanism issuance, including a list of issuance and expiration dates for each SIU.

2. *Sampling and Inspection* – The Annual Report shall contain a summary of the number and type of inspections and sampling of SIUs by the permittee, including a list of all SIUs either not sampled or not inspected, and the reason that the sampling and/or inspection was not conducted.

3. *Significant Industrial User Compliance and POTW Enforcement* – The Annual Report shall contain a summary of the number and type of violations of pretreatment standards and requirements, local limits, and the actions taken by the permittee to obtain compliance, including civil penalty assessments and actions for injunctive relief. The report shall state whether each SIU was in significant noncompliance, as that term is defined in 40 CFR Part 403.8(f)(2)(viii).

4. *Industrial Listing* – The annual report shall contain an updated industrial listing showing all current SIUs and the categorical standard, if any, applicable to each. In addition, the report shall contain a summary of any trucked or hauled wastewater accepted at the plant, including the source of the wastewater (domestic, commercial, or industrial) and the discharge point designated by the POTW for acceptance of such wastewater. For each industrial source, the report shall indicate the name and address of the industrial source, the average (per discharge day) amount of wastewater received, a brief description of the type of process operations conducted at the industrial facility, whether the source facility is a categorical industry, significant industry, or non-significant user, and any controls imposed on the user.

5. *Summary of POTW Operations* – The annual report shall contain a summary of any interference, pass-through, or permit violations by the POTW that may be attributed to industrial users, and actions taken to address these events. The summary shall include sampling and analysis of treatment plant influent, effluent, and sludge for priority pollutants and any other pollutants for which a local limit exists. The summary shall also include an analysis of any trends in such data over the past three years.

6. *Pretreatment Program Changes* – The Annual Report shall contain a summary of any changes to the approved program and the date of submission to the Approval Authority.

C. *Monitoring* – The permittee shall conduct monitoring at its treatment plant that, at a minimum, includes quarterly influent, effluent, and sludge analysis for all local limit parameters, and an annual priority pollution scan for influent and sludge.

D. *Notification of Pass-Through or Interference* – The permittee shall notify EPA and DEP, in writing, of any instance of pass-through or interference related to an industrial discharge from an IU into the POTW. The notification shall be attached to the DMR submitted to EPA and DEP and shall describe the incident, including the date, time, length, cause (including responsible user if known), and the steps taken by the permittee and IU (if identified) to address the incident. A copy of the notification shall be sent to the EPA at the address provided in Section H herein.

E. *Headworks Analysis* – The permittee shall submit to EPA and DEP, a reevaluation of its local limits based on a headworks analysis of its treatment plant within one year of permit issuance. The list of pollutants to be evaluated, as well as a sampling plan for collection of necessary data, shall be submitted to EPA and DEP within three months of permit issuance. Within six months of acceptance of the headworks analysis by the Approval Authority, the permittee shall adopt the revised limits and notify all contributing municipalities of the need to adopt the revised limits.

F. *Changes to Pretreatment Program* – EPA may require the permittee to submit for approval, changes to its pretreatment program if any one or more of the following conditions is present:

1. The program is not implemented in accordance with 40 CFR Part 403.

2. Problems such as interference, pass-through or sludge contamination develop or continue.

3. Federal, state, or local requirements change.

4. Changes are needed to assure protection of waters of the Commonwealth.

G. *Procedure for Pretreatment Program Changes* – Upon submittal by the permittee, and written notice of approval by the Approval Authority to the permittee of any changes to the permittee's approved pretreatment program, such changes are effective and binding upon the permittee, unless the permittee objects within 30 days of receipt of the written notice of approval. Any such objection must be submitted in writing to both the Department and EPA at the addresses shown below.

H. *Correspondence* – The Approval Authority shall be EPA at the following address:

Pretreatment Coordinator (3WP41)
Water Protection Division
U.S. Environmental Protection Agency, Region III
1650 Arch Street
Philadelphia, PA 19103-2029

Copies of all correspondence and reports dealing with this program shall be sent to:

Department of Environmental Protection
Southcentral Regional Office
Water Management Program
909 Elmerton Avenue
Harrisburg, PA 17110-8200

I. TOXICS REDUCTION EVALUATION (TRE)

A. Water Quality-Based Effluent Limitations (WQBELs)

1. The Toxicity Reduction Evaluation shall be initiated within 60 days of the end of the 12 months following permit issuance, with an interim monthly reporting requirement for the toxics. The monitoring shall be conducted using methods that are capable of achieving a method detection limit (MDL) value less than the average monthly limitation (AML). The TRE will be required unless it can be demonstrated, for some or all of the toxic pollutants that the monthly average effluent concentrations are below the proposed average monthly limitations. If one or more of the pollutants have an effluent concentration greater than the AMLs for any month, then the TRE will be required for those pollutants and the effluent limits will remain effective three years following permit issuance. If one or more pollutants have an effluent concentration less than the respective AMLs for any of the 12 months of monitoring only, then the TRE will not need to be performed and the Department will reopen and amend the permit to remove the limitations and the associated TRE Conditions.

2. Based on the discharge and stream data currently available to the Department, the WQBELs for BEHP, Chlorodibromomethane and Dichlorobromomethane on page 3 are necessary to protect the receiving stream uses designated in the Department's rules and regulations

3. Within 60 days of the end of the 12th month following the permit effective date (PED), the permittee must submit notification to the Department verifying <u>one</u> of the following options has been selected for the pollutants found to require effluent limitations as describing in paragraph one (1).

   a. The permittee accepts the Department's data, assumptions, and water quality modeling which was the basis for the WQBELs and <u>will not</u> proceed with <u>optional</u> site-specific data collection activities described in Section C of this condition. The WQBELs will be considered final and enforceable three years after the PED and should be used as the basis for conducting Phase II of the TRE.

   b. During the period following permit issuance, and prior to the WQBELs becoming final, the permittee agrees to conduct site-specific discharge and/or stream data collection and provide the Department with data to verify or refine the WQBELs in accordance with the schedule in Section B.2, herein. If warranted, modified WQBELs will be established through a permit amendment. Any such permit amendment shall be considered a formal permitting action of the Department subject to applicable permit modification procedures.

If the permittee fails to select one of these options within 60 days of the end of the 12th month following the permit effective date, option A.3.a.is selected by default. If the permittee selects option A.3.b, and conducts TRE actions within the schedule in Section B.2 of this condition of the permit, herein, the Department will issue a written decision by permit amendment. The permittee will have 30 days from the date of receipt of such Department decision to file an appeal of the final WQBELs.

4. In either case, the Permittee must conduct a TRE as outlined below. Phase I of the TRE has both required and optional components. (If the conditions for removal of BEHP, Chlorodibromomethane, and/or Dichlorobromomethane limitations are met in A.1, the facility will not have to conduct the TRE for the parameters meeting the removal condition. If all parameters meet the removal conditions, the permit will be amended to remove the limitations and TRE requirements.)

B. TRE Submission Requirements

1. The TRE shall be developed to:

   a. Confirm and quantify the presence of the pollutants in the discharge with WQBELs.

   b. Verify or refine the modeling data and/or assumptions used to develop the WQBELs.

   c. Identify sources of the pollutants with final WQBELs.

   d. Recommend management practices, wastewater treatment technologies, or other control techniques to reduce or eliminate these pollutants.

2. A copy of the Department's "Guidelines for Conducting a Toxics Reduction Evaluation" is enclosed for your use. The TRE and associated reports shall be completed and submitted in accordance with the following schedule:

Action	Date
a. Submit Notification Specified in A.2 above	Within 60 days of PED
b. Submit Work Plan for Conducting Phase I	Within 90 days of PED
c. Start Phase I	Within 120 days of PED
d. Submit Complete Phase I Report (3 copies)	Within 18 months of PED
e. Start Phase II	Within 30 days of notice from the Department to proceed with Phase II
f. Submit Complete Phase II Report	Within 180 days of notice to proceed with Phase II
g. Progress Reports	Every three months starting 120 days after PED

C. Phase I TRE Requirements

1. The permittee is required to submit Phase I of the TRE consisting of the following components:

   a. Influent and effluent quality review.

   b. Source inventory and evaluation.

   c. Source reduction evaluation.

   d. Implementation of pollution prevention, sound housekeeping practices, and other management practices.

2. The permittee selecting option A(2)(b) above has the option of providing all or some of the following site-specific data as part of Phase I for use in verifying and refining the WQBELs:

   - Discharge hardness
   - Discharge pollutant concentration and variability
   - Design discharge flow
   - Discharge mixing characteristics
   - Pollutant fate characteristics
   - Stream width, depth and slope
   - Stream velocity
   - Ambient stream data for pollutants, pH, temperature
   - Instream hardness
   - Water intake quality and quantity
   - Treatment plant influent pollutant concentrations
   - Chemical translators
   - Water Effects Ratio (WER)

   The permittee should contact the Department for guidance in determining which of the above data will have a significant impact on the WQBELs and also for protocols on collecting and submitting the data. The Department will determine the adequacy of any site-specific data submitted and advise the permittee accordingly. If initial review of the submitted data suggests that additional data collection is necessary, the Department will so advise the permittee. The Department will notify the permittee what effect, if any, the data have on the WQBELs using the procedure outlined in A.2 above.

3. Site-Specific Criteria

   The permittee may request an opportunity to demonstrate alternative, site-specific criteria for any pollutants with WQBELs. The procedures for carrying out such demonstrations must receive written approval in advance by the Department and must be in accordance with the requirements of Section 93.8 of the Department's Rules and Regulations.

   If the permittee chooses this option, requests for alternative, site-specific criteria must be submitted to the Department as part of the Phase I TRE report. Where the demonstration results in more stringent limitations than those previously established by the Department, the more stringent limitation will apply. Any less stringent limitations which are approved by the Department shall not violate any other applicable water criteria.

4. Alternative Site Specific Method Detection Limits (MDL)

   In some cases, the WQBEL may be less than the Method Detection Level (MDL) in the Department's Policy, 25 Pa. Code 16. In this event, the permittee has the option to demonstrate alternative, facility-specific MDLs to account for analytical matrix interference associated with the wastewater in question. The procedures for determining MDLs, published as Appendix B in 40 CFR 136 must be followed and complete documentation provided. The request for approval of alternative facility-specific MDLs including all documentation required to support such a request must be submitted to the Department with the Phase I TRE report.

   The Department may grant a facility specific MDL by including the numeric alternate MDL value for compliance purposes through the permit modification or renewal process.

D. Phase II TRE Requirements

The permittee should not proceed with Phase II until notified by the Department to do so. Depending on the results of Phase I, the WQBELs may need to be modified or Phase II may not be necessary.

1. Source Reduction Evaluation

   In addition to those items in C.1 above, as part of Phase II, the permittee must conduct source reduction evaluations including recycle, reuse, and process/chemical substitution. The intent of this portion of the TRE is to investigate and implement all low-cost, non-structural alternatives to reduce pollutants.

2. Final WQBEL Compliance Strategies and Schedule

A complete TRE report must consist of identification and assessment of all available pollution control options (Best Management Practices and/or treatment technologies and other structural alternatives) and their ability to comply with the final WQBELs or other WQBELs identified in response to Phase I. The permittee must select a specific pollution control option that will achieve the applicable WQBELs and specify a schedule for the implementation of this option.

3. Section 95.4 Time Extension Requests

In some cases, the final WQBEL may not be technologically achievable using any combination of control options. In this event, the permittee has the option of requesting an extension of time to achieve the WQBEL, provided the permittee demonstrates eligibility for time extension under the requirements contained in 25 Pa. Code 95, Section 95.4 of the Department's Rules and Regulations. If the permittee elects to submit the 95.4 time extension request, the request must be submitted with Phase II of the TRE report. Forms are available from the Department to be used for any such requests.

I. OTHER REQUIREMENTS

A. The approval herein given is specifically made contingent upon the permittee acquiring all necessary property rights by easement or otherwise, providing for the satisfactory construction, operation, maintenance and replacement of all sewers or sewerage structures associated with the herein approved discharge in, along, or across private property, with full rights of ingress, egress and regress.

B. Collected screenings, slurries, sludges, and other solids shall be handled and disposed of in compliance with the Solid Waste Management Act (35 P.S. §§6018.101 – 6018.1003), and in a manner equivalent to the requirements ...cated in Chapters 271, 273, 275, 283, and 285 (relating to permits and requirements for landfilling, land ...plication, incineration, and storage of sewage sludge), federal regulation 40 CFR Parts 501 and 503, The Clean Streams Law, and the Federal Clean Water Act and its amendments.

C. The permit is of interest to the U.S. Environmental Protection Agency (EPA) because it meets one or more of the following criteria:

1. POTW with a design hydraulic flow of one mgd or more.

2. POTW with a pretreatment requirement.

3. POTW or Industrial Waste discharger with biomonitoring requirements.

4. Industrial Waste discharger not waived for review by the EPA/DEP Memorandum of Agreement.

A copy of the DMR shall be submitted to the EPA at the following address:

NPDES Discharge Monitoring Reports (WP31)
Water Protection Division
U.S. Environmental Protection Agency, Region III
1650 Arch Street
Philadelphia, PA 19103-2029

D. The permittee shall submit the results of Whole Effluent Toxicity (WET) tests with their next permit renewal application, as required in the federal regulation 40 CFR 122.21(j)(1)-(3). The permittee shall conduct WETT in accordance with the Department's biomonitoring requirements. Prior to starting the WETT, the applicant must contact the Department for current requirements.

E. The permittee shall not accept hauled-in wastes under the following conditions, unless otherwise approved by the Department in writing:

1. When acceptance of hauled-in wastes would cause a hydraulic or organic overload as defined in Chapter 94.1 of the Department's regulations.

2. When the treatment facility is considered to be in an existing hydraulic or organic overload condition, as determined by the permittee or the Department, as defined in Chapter 94.1 of the Department's regulations.

3. When the instantaneous flow at the treatment facility is exceeded (the Chapter 94 hydraulic design capacity of the facility multiplied by a peaking factor of three), and for 24 hours following exceedance of this threshold.

III. SUPPLEMENTAL INFORMATION

A. The hydraulic design capacity of 4.2 million gallons per day for the treatment facility is used to prepare the annual Municipal Wasteload Management Report to help determine whether a "hydraulic overload" situation exists, as defined in Title 25 Pa. Code Chapter 94.

B. The effluent limitations for this outfall were determined using an effluent discharge rate of 4.2 million gallons per day.

C. The organic design capacity of 21,000 lbs BOD_5 per day for the treatment facility is used to prepare the annual Municipal Wasteload Management Report to determine whether an "organic overload" condition exists, as defined in 25 Pa. Code Chapter 94.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT

Penn Township Board of Commissioners
DRESS: 20 Wayne Avenue
Hanover, PA 17331
CILITY: Penn Township WWTP
CATION: Penn Township, York County
ATERSHED: 7-H

PA 0037 — PERMIT NUMBER
001 — OUTFALL

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY

FINAL EFFLUENT LIMITS

This permit EXPIRES: FEBRUARY 28, 2013

Permit Renewal Application must be received 180 days prior to expiration.

NOTE: Read Instructions Before Completing This Form

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
OW	SAMPLE MEASUREMENT				******	******	******	******	X		
	PERMIT REQUIREMENT	Report Mo Avg	Report Daily Max	MGD	******	*******	******		X	Cont	Meas
	SAMPLE MEASUREMENT	******	******	******		******		S.U.			
	PERMIT REQUIREMENT	******	******		6.0 Minimum	*******	9.0 Maximum		X	1/Day	Grab
SSOLVED OXYGEN	SAMPLE MEASUREMENT	******	******	******		******	******	mg/l			
	PERMIT REQUIREMENT	******	******		5.0 Inst Min	*******	******		X	1/Day	Grab
TAL RESIDUAL CHLORINE	SAMPLE MEASUREMENT	******	******	******							
	PERMIT REQUIREMENT	******	******		Report Minimum	0.14 Mo Avg	Report Maximum		X	1/Day	Grab
CAL COLIFORM 1 to 9/30)	SAMPLE MEASUREMENT	******	******	******	******		******	No. 100 ml			
	PERMIT REQUIREMENT	******	******		******	200 30 Day Geo	******		X	2/Week	Grab
CAL COLIFORM 10/1 to 4/30)	SAMPLE MEASUREMENT	******	******	******	******		******	No. 100 ml			
	PERMIT REQUIREMENT	******	******		******	2,000 30 Day Geo	******		X	2/Week	Grab
TAL SUSPENDED SOLIDS	SAMPLE MEASUREMENT				******			mg/l			
	PERMIT REQUIREMENT	1,050 Mo Avg	1,578 Wkly Avg	lb/day	******	30 Mo Avg	45 Wkly Avg		X	2/Week	24-hr comp
TAL PHOSPHORUS	SAMPLE MEASUREMENT		******	******	******		******	mg/l			
	PERMIT REQUIREMENT	70 Mo Avg	******	lb/day	******	2.0 Mo Avg	******		X	2/Week	24-hr Comp

Page

PA Form 3320-1 (Rev. 08-95) *Previous editions may be used.*

(REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT

NAME: Penn Township Board of Commissioners
ADDRESS: 20 Wayne Avenue
Hanover, PA 17331
FACILITY: Penn Township WWTP
LOCATION: Penn Township, York County
WATERSHED: 7-H

PA 0037150	001
PERMIT NUMBER	DISCHARGE #

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY

FINAL EFFLUENT LIMITS

This permit EXPIRES: FEBRUARY 28, 2013

Permit Renewal Application must be received 180 days prior to expiration.

NOTE: Read Instructions Before Completing This Form

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
$CBOD_5$ (5/1 to 10/31)	SAMPLE MEASUREMENT				******						
	PERMIT REQUIREMENT	525 Mo Avg	788 Wkly Avg	lb/day	******	10 Mo Avg	15 Wkly Avg	mg/l	X	2/Week	24-hr Comp
$CBOD_5$ (11/1 to 4/30)	SAMPLE MEASUREMENT				******						
	PERMIT REQUIREMENT	875 Mo Avg	1,401 Wkly Avg	lb/day	******	20 Mo Avg	30 Wkly Avg	mg/l	X	2/Week	24-hr Comp
NH_3-N (5/1 to 10/31)	SAMPLE MEASUREMENT		******		******		******				
	PERMIT REQUIREMENT	42 Mo Avg	******	lb/day	******	1.2 Mo Avg	******	mg/l	X	2/Week	24-hr Comp
NH_3-N (11/1 to 4/30)	SAMPLE MEASUREMENT		******		******		******				
	PERMIT REQUIREMENT	126 Mo Avg	******	lb/day	******	3.6 Mo Avg	******	mg/l	X	2/Week	24-hr Comp
BEHP (INTERIM) (3/1/08 to 2/28/11)	SAMPLE MEASUREMENT	******	******		******		******				
	PERMIT REQUIREMENT	******	******	******	******	Report Mo Avg	******	mg/l	X	2/Month	8-hr Comp
BEHP (FINAL) (3/1/11 to 2/28/13)	SAMPLE MEASUREMENT	******	******		******						
	PERMIT REQUIREMENT	******	******	******	******	0.003 Mo Avg	0.006 Max Daily	mg/l		2/Month	8-hr Comp
CHLORODIBROMOMETHANE (INTERIM) (3/1/08 to 2/28/11	SAMPLE MEASUREMENT	******	******		******		******				
	PERMIT REQUIREMENT	******	******	******	******	Report Mo Avg	******	mg/l		2/Month	8-hr Comp
CHLORODIBROMOMETHANE (FINAL) (3/1/11 to 2/28/13)	SAMPLE MEASUREMENT	******	******		******						
	PERMIT REQUIREMENT	******	******	******	******	0.0007 Mo Avg	0.0014 Max Daily	mg/l		2/Month	8-hr Comp

EPA Form 3320-1 (Rev. 08-95) *Previous editions may be used.* (REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT

	Penn Township Board of Commissioners
...SS:	20 Wayne Avenue
	Hanover, PA 17331
CILITY:	Penn Township WWTP
CATION:	Penn Township, York County
ATERSHED:	7-H

PA 0037	001
PERMIT NUMBER	DISCHARGE #

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY

FINAL EFFLUENT LIMITS

This permit **EXPIRES: FEBRUARY 28, 2013**

Permit Renewal Application must be received 180 days prior to expiration.

NOTE: Read Instructions Before Completing This Form

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	QUALITY OR CONCENTRATION MINIMUM	QUALITY OR CONCENTRATION AVERAGE	QUALITY OR CONCENTRATION MAXIMUM	QUALITY OR CONCENTRATION UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
CHLOROBROMOMETHANE (TERIM) (3/1/08 to 2/28/11)	SAMPLE MEASUREMENT	******	******		******		******				
	PERMIT REQUIREMENT	******	******	******	******	Report Mo Avg	******	mg/l	X	2/Month	8-hr Comp
CHLOROBROMOMETHANE (NAL) (3/1/11 to 2/28/13)	SAMPLE MEASUREMENT	******	******		******						
	PERMIT REQUIREMENT	******	******	******	******	0.0009 Mo Avg	0.0018 Max Daily	mg/l		2/Month	8-hr Comp

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.		TELEPHONE		DATE		
			AREA CODE	NUMBER	YEAR	MO	DAY
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT					

MMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

'A Form 3320-1 (Rev. 08-95) *Previous editions may be used.* (REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.)

UMITTEE NAME/ADDRESS (Include
cility Name/Location if different)

UME: Penn Twp. Board of Commissioners
DDRESS: 20 Wayne Avenue
Hanover, PA 17331
ACILITY: Penn Township WWTP
OCATION: Penn Township, York County
ATERSHED: 7-H

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PA 0037150	001
PERMIT NUMBER	DISCHARGE #

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY

INTERIM EFFLUENT LIMITS

Permit Expiration Date: FEBRUARY 28, 2013

Permit Renewal Application must be received
180 days prior to expiration.

INTERIM CHESAPEAKE BAY LIMITS

NOTE: Read Instructions Before Completing This Form

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	ANNUAL	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
MMONIA-N	SAMPLE MEASUREMENT		Report on Annual Supplemental	lbs	******		******	mg/l			
	PERMIT REQUIREMENT	Report Monthly Total	Annual Total		******	Report Monthly Average	******			2/Week	24-Hr Comp
JELDAHL-N	SAMPLE MEASUREMENT		******	lbs	******		******	mg/l			
	PERMIT REQUIREMENT	Report Monthly Total	******		******	Report Monthly Average	******			1/Week	24-Hr Comp
ITRATE/ NITRITE-N	SAMPLE MEASUREMENT		******	lbs	******		******	mg/l			
	PERMIT REQUIREMENT	Report Monthly Total	******		******	Report Monthly Average	******			1/Week	24-Hr Comp
OTAL NITROGEN	SAMPLE MEASUREMENT		Report on Annual Supplemental	lbs	******		******	mg/l			
	PERMIT REQUIREMENT	Report Monthly Total	Annual Total		******	Report Monthly Average	******			1/Month	Calculate
OTAL PHOSPHORUS	SAMPLE MEASUREMENT		Report on Annual Supplemental	lbs	******		******	mg/l			
	PERMIT REQUIREMENT	Report Monthly Total	Annual Total		******	Report Monthly Average	******			2/Week	24-Hr Comp
ET TOTAL NITROGEN	SAMPLE MEASUREMENT		Report on Annual Supplemental	lbs	******	******	******	*****			
	PERMIT REQUIREMENT	Report Monthly Total	Annual Total		******	******	******			1/Month	Calculate
ET TOTAL PHOSPHORUS	SAMPLE MEASUREMENT		Report on Annual Supplemental	lbs	******	******	******	******			
	PERMIT REQUIREMENT	Report Monthly Total	Annual Total		******	******	******			1/Month	Calculate

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.		TELEPHONE		DATE		
			AREA CODE	NUMBER	YEAR	MO	DAY
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT					

OMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

ITTEE NAME/ADDRESS *(Include Name/Location if different)*

Penn Twp. Board of Commissioners
RESS: 20 Wayne Avenue
Hanover, PA 17331
ILITY: Penn Township WWTP
ATION: Penn Township, York County
ERSHED: 7-H

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*
DISCHARGE MONITORING REPORT *(DMR)*

PA 0037 — PERMIT NUMBER
001 — DISCHARGE #

MONITORING PERIOD

YEAR	MO	DAY		YEAR	MO	DAY
			TO			

Form Approved
OMB No. 2040-0004

FINAL EFFLUENT LIMITS

Permit Expiration Date: FEBRUARY 28, 2013

Permit Renewal Application must be received 180 days prior to expiration.

FINAL CHESAPEAKE BAY LIMITS

NOTE: Read Instructions Before Completing This Form

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING ANNUAL	QUANTITY OR LOADING UNITS	QUALITY OR CONCENTRATION MINIMUM	QUALITY OR CONCENTRATION AVERAGE	QUALITY OR CONCENTRATION MAXIMUM	QUALITY OR CONCENTRATION UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
MONIA-N	SAMPLE MEASUREMENT		Report on Annual Supplemental	lbs	******		******	mg/l			
	PERMIT REQUIREMENT	Report Monthly Total	Annual Total		******	Report Monthly Average	******			2/Week	24-Hr Comp
LDAHL-N	SAMPLE MEASUREMENT		******	lbs	******		******	mg/l			
	PERMIT REQUIREMENT	Report Monthly Total	******		******	Report Monthly Average	******			1/Week	24-Hr Comp
RATE/ NITRITE-N	SAMPLE MEASUREMENT		******	lbs	******		******	mg/l			
	PERMIT REQUIREMENT	Report Monthly Total	******		******	Report Monthly Average	******			1/Week	24-Hr Comp
AL NITROGEN	SAMPLE MEASUREMENT		Report on Annual Supplemental	lbs	******		******	mg/l			
	PERMIT REQUIREMENT	Report Monthly Total	Annual Total		******	Report Monthly Average	******			1/Month	Calculate
AL PHOSPHORUS	SAMPLE MEASUREMENT		Report on Annual Supplemental	lbs	******		******	mg/l			
	PERMIT REQUIREMENT	Report Monthly Total	Annual Total		******	Report Monthly Average	******			2/Week	24-Hr Comp
TOTAL NITROGEN	SAMPLE MEASUREMENT		Report on Annual Supplemental	lbs	******	******	******	******			
	PERMIT REQUIREMENT	Report Monthly Total	81,811 Annual Total		******	******	******			1/Month	Calculate
TOTAL PHOSPHORUS	SAMPLE MEASUREMENT		Report on Annual Supplemental	lbs	******	******	******	******			
	PERMIT REQUIREMENT	Report Monthly Total	10,228 Annual Total		******	******	******			1/Month	Calculate

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE | NUMBER

DATE: YEAR | MO | DAY

MENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

APPENDIX I-9

PLANNING MODULES

PA DEP Planning Module Log Summary				
Name of Subdivision	**Code No.**	**Type of Disposal**	**EDU's**	**Comments**
Llyod R. Klinedinst	3-67964-008	on-lot	17	Approved 11/2/84
S. Edward Murphy (Good Farm)	3-01931-028-3	on-lot	14	Approved 5/8/85
Rene F. DeBrabander	3-67964-010	on-lot	13	Approved 3/13/86
William Utz	3-67964-006-1	on-lot		Approved 4/24/86
Church of Christ of Hanover	3-67964-012	on-lot		Approved 5/29/86
LeAnn Acres - Phase I	3-67964-011-III	on-lot	7	Approved 6/20/86
Fred J. Laurence	3-67964-010-I	on-lot		Approved 7/2/1986
Thomas J. Smith	P3-67964-015-III	on-lot	4	Approved 9/22/86
Misty Acres - Section 4	3-67964-016-III	on-lot	4	Approved 10/31/86
Richard B. Heller	3-67964-013-I	on-lot		Approved 3/25/87
Dean L. Ports	3-67964-012-I	on-lot		Approved 5/11/87
Richard B. Heller	P3-67964-018-III	on-lot	3	Approved 11/4/87
Bruce & Rainee Ruhlman	3-67964-015-I	on-lot		Approved 2/3/88
Pauline G. Noel	3-67964-016-I	on-lot		Approved 3/16/88
Senford D. Smith	3-67964-020-III	on-lot	3	Approved 3/18/88
Lee Ann Acres - Phase II	P3-67964-019-III	on-lot	17	Approved 4/21/88
Jerry R. Belt	3-67964-018-I	on-lot		Approved 5/24/88
Bartol/Weber	3-67964-019-I	on-lot		Approved 6/8/88
Bryan G. Smith	3-67964-021-I	on-lot		Approved 6/16/88
Richard Berwager	3-67964-022-I	on-lot		Approved 6/20/88
Rolling Meadows	P3-67964-017-III	on-lot	17	Approved 7/5/88
Hanover Self Storage	P3-67964-024-III	on-lot	1	Approved 7/14/88
Robert H. Yingling	3-67964-024-I	on-lot		Approved 7/18/88
Watershed	3-67964-023-I	on-lot		Approved 8/2/88
Bruce & Rainee Ruhlman	3-67964-022-III	on-lot	10	Approved 8/31/88
Senford D. Smith	P3-67964-023-III	on-lot	7	Approved 8/31/88
Ronald Hardin	3-67964-025-I	on-lot		Approved 9/19/88
Robert Yingling	3-67964-026-I	on-lot		Approved 2/13/89
David Humbert Jr.	P3-67964-021-III	on-lot	6	Approved 4/6/89
Lydia M. Gerver Estate	3-67964-027-I	on-lot		Approved 5/23/89
Common Ground	P3-67964-026-III	on-lot	5	Approved 5/24/89
Hughes Patwill Homes	P3-67964-031-III	on-lot	7	Approved 7/20/89
Albert Miller	3-67964-028-I	on-lot		Approved 9/14/89
George Mathias	3-67964-029-I	on-lot		Approved 9/14/89
Leon C. Rider	P3-67964-033-III	on-lot	1	Approved 9/29/89
Bryan Smith	P3-69764-030-III	on-lot	2	Approved 12/1/89
Luther Pottorf	3-67964-031-I	on-lot		Approved 2/15/90
Fairview Farms Village	3-67964-030-I	on-lot		Approved 2/22/90
Wayne Jones	3-67964-032-I	on-lot		Approved 8/9/90
Ralph Rummel	3-67964-033-I	on-lot		Approved 9/14/90

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John Merryman	P3-67964-034-2	on-lot	20	Approved 1/17/91
David/Watershed Humbert II	P3-67964-037-2	on-lot	4	Approved 4/2/91
South Pointe	P3-67964-038-2	on-lot	13	Approved 5/1/91
Llyod R. Klinedinst	3-67964-041-I	on-lot	3	Approved 9/3/91
Tony Craumer	3-67964-043-I	on-lot		Approved 3/9/92
Bruce Ruhlman	3-67964-044-I	on-lot		Approved 4/21/92
Ron Carter	P3-67964-039-2	on-lot	18	Approved 6/25/92
George Brenton IV	3-67964-046-I	on-lot		Approved 5/25/92
Gerald Frock	3-67964-045-I	on-lot		Approved 5/29/92
Charles Sponseller	3-67964-048-I	on-lot		Approved 7/9/92
John Egloff	3-67964-049-I	on-lot		Approved 9/17/92
Gary A. Gregory	P3-67964-040-2	on-lot	1	Approved 10/27/92
Warren Davis Jr.	3-67964-050-I	on-lot		Approved 2/2/93
Bruce Ruhlman	A3-67964-051-2	on-lot	2	Approved 4/22/93
Thomas Krumrine	3-67964-053-I	on-lot		Approved 5/24/93
Gary Gregory	A3-67964-052-2	on-lot	1	Approved 6/9/93
Robert Nedzel	3-67964-054-I	on-lot		Approved 7/20/93
Earl Gilbert	3-67964-055-I	on-lot		Approved 9/20/93
Bruce Ruhlman	3-67964-058-I	on-lot		Approved 7/19/94
Jerry C. Wheeler	3-67964-059-I	on-lot		Approved 8/25/94
Pine View/Allan Shaffer	3-67964-063-I	on-lot		Approved 10/27/94
Stanley W. Dehoff Jr.	3-67964-065-I	on-lot		Approved 1/31/95
Jerry C. Wheeler	3-67964-066-I	on-lot		Approved 2/24/95
Wilson Bixler	3-67964-067-I	on-lot		Approved 3/7/95
Cletus J. Simpson	3-67964-069-I	on-lot	4	Approved 4/18/95
Norman B. Nace Jr.	A3-67964-064-2	on-lot	1	Approved 5/4/95
Frank C. Feeser et. Al.	3-67964-071-I	on-lot		Approved 9/15/95
Margaret N. Smeach	A3-67964-072-2	on-lot	1	Approved 10/24/95
hn W. Borkowski Sr.	3-67964-074-I	on-lot	2	Approved 10/24/95
Robert J Ross	3-67964-075-I	on-lot		Approved 12/15/95
Gladys Raubenstine	3-67964-076-I	on-lot		Approved 12/20/95
Gary Gregory	A3-67964-073-2	on-lot	6	Approved 1/17/96
Steven M. Yingling	A3-67964-077-2	on-lot	1	Approved 1/17/96
J & J Enterprises	3-67964-083-I	on-lot		Approved 6/27/96
Maryland View Farms	A3-67964-080-2	on-lot	15	Approved 9/13/96
Gary Gregory	A3-67964-082-2	on-lot	1	Approved 10/1/96
Russell C. Lease	3-67964-086-I	on-lot		Approved 1/7/97
Clyde Werner	3-67964-087-I	on-lot		Approved 5/20/97
Steven Yingling	3-67964-089-I	on-lot		Approved 6/5/97
Jerry Cook	3-67964-090-I	on-lot		Approved 8/12/97
Charles P. Bowman Jr.	3-67964-091-I	on-lot		Approved 9/3/97
Steven Yingling	A3-67964-088-2	on-lot	3	Approved 10/3/97
William B. Crumrine Jr.	3-67964-095-I	on-lot		Approved 10/22/97

Robert J. Ross	3-67964-094-I	on-lot		Approved 10/22/97
Harry E. Dusman	3-67964-093-I	on-lot		Approved 10/24/97
Menlena	A3-67964-070-3	on-lot		Approved 2/23/98
Fairview Farms - S. Pointe	A3-67964-078-3	Public sewer		Approved 4/14/98
Harold Raubenstine	3-67964-105-I	on-lot		Approved 5/20/98
Gary Gregory	A3-67964-096-3	Public sewer	1	Approved 5/20/98
Menlena	B3-67964-070-3	Public sewer	124	Approved 6/11/98
Colonial Hills Phase 10	A3-67964-068-3	Public sewer		Approved 6/12/98
Russell C. Lease	A3-67964-108-I	on-lot		Approved 1/8/99
Lee Ann Acres	A3-67964-107-2	on-lot	9	Approved 2/3/99
Paul Burkentine	A3-67964-109-I	on-lot		Approved 3/16/99
Mryl R. Crawford	A3-67964-110-I	on-lot		Approved 7/15/99
Woodridge Hunt	A3-67964-097-2(B)	on-lot	67	Approved 9/22/99
Helen B. Bubb	A3-67964-112-I	on-lot		Approved 10/6/99
Glenn & Marian Auchey	A3-67964-113-I	on-lot		Approved 10/8/99
Jay Weisensale	A3-67964-117-I	on-lot		Approved 11/10/99
John J. Greco	A3-67964-118-I	on-lot		Approved 3/28/00
Alan L. Ault	A3-67964-119-I	on-lot	2	Approved 8/3/00
Alan L. Ault & Richard C. Brown	A3-67964-120-I	on-lot	4	Approved 10/4/00
Freestate Partnership	A3-67964-122-I	on-lot		Approved 1/4/01
Valerie J. Gatz	A3-67964-121-I	on-lot		Approved 1/4/01
Norman B. Nace Jr.	A3-67964-123-I	on-lot		Approved 2/5/01
Alan L. Ault	A3-67964-124-I	on-lot	2	Approved 6/13/01
Richard Hoff	A3-67964-125-I	on-lot	2	Approved 9/5/01
Mary Myers	A3-67964-126-I	on-lot	2	Approved 9/5/01
Terry Wetzel	A3-67964-127-I	on-lot	2	Approved 8/31/01
Timothy Gaugher	W3-67964-128-5	on-lot		Filed 1/2/02
Albert Sheeringer	A3-67964-129-I	on-lot	2	Approved 2/12/02
Charles Grubb	A3-67964-130-I	on-lot	1	Approved 1/22/02
James Horak	A3-67964-132-I	on-lot	2	Approved 4/23/02
William Carrier	W3-67964-133-5	on-lot		Letter sent to twp saying non-acceptable MUST either resubmit form B or do a planning module 4/3/02
Richard & Carol Brown	W3-67964-136-5	on-lot		Filed 5/10/02
Frank Feeser	W3-67964-135-5	on-lot		Filed 5/10/02
William Carrier	A3-67964-134-I	on-lot	1	Approved 6/11/02
Thomas E. Krumrine	W3-67964-137-5	on-lot		Filed 5/14/02
Shelva Angle & Darryl Bollinger	A3-67964-140-I	on-lot	2	Approved 10/1/02
South Pointe - Lot 191	A3-67964-141-I	on-lot	1	Approved 10/1/02
Woodridge Hunt	A3-67964-142-2	on-lot	2	Approved 5/29/03
Skyview Estates	A3-67964-138-2	on-lot		Approved 4/28/03
Fox Run Village	A3-67964-144-2	Public sewer	2	Approved 4/3/03
James & Barbara Horak	A3-67964-145-I	on-lot	3	Approved 5/20/03

Thomas Krumrine	A3-67964-146-2E	on-lot	1	Exempt 5/6/03
Gladys Raubenstine	A3-67964-147-I	on-lot	2	Approved 6/2/03
Marburg Pointe	A3-67964-139-2	on-lot	13	Approved 10/29/03
Alan L. Ault	A3-67964-149-I	on-lot	1	Approved 10/22/03
Ray H. Garrett	A3-67964-148-I	on-lot	1	Approved 10/22/03
Brian Utz	A3-67964-150-I	on-lot	3	Sent back 11/21/03 must resubmit as major module - new code # A3-67964-154-2
Michael Hoffman	W3-67964-151-5	on-lot		Filed 11/13/03
Terry & Lisa Wetzel	A3-67964-151-I	on-lot	1	Returned to twp must use comp 2 new code # A3-67964-156-2 12/10/03
Charles Grubb	W3-67964-152-5	on-lot		Filed 11/13/03
Eugene & Jeanne Saltzgiver	W3-67964-153-5	on-lot		Filed 11/13/03
James & Barbara Horak	A3-67964-155-I	on-lot	1	Sent back to twp 1/7/04 must use comp 2-A3-67964-157-2
Wal-Mart #5469	A3-67964-158-3E	Public sewer	1	Exempt 1/14/04
James Horak	A3-67964-157-2	on-lot		Approved 3/30/04
Brian Utz	A3-67964-154-2	on-lot	3	Approved 4/22/04
Terry & Lisa Wetzel	A3-67964-156-2	on-lot	2	Approved 6/30/04
Michael W. Bevard	A3-67964-159-2	on-lot	1	Disapproved 7/26/04
Michael W. Bevard	B3-67964-159-2	on-lot	1	Approved 8/23/04
Robert A. Folk	A3-67964-161-2	on-lot	2	Approved 2/15/05
Skyview Estates	A3-67964-164-2	on-lot	3	Approved 1/18/05
Wyndsong Pointe	A3-67964-162-2	on-lot	16	Approved 2/24/05
Scott & Julia McCleaf	W3-67964-168-5	on-lot		Filed 1/4/05
Scott & Julia McCleaf	A3-67964-169-2E	on-lot	3	Exempt 1/5/05
Jeff & Kathy Rice	A3-67964-171-I	on-lot	2	1/18/05 must use major module new code # A3-67964-172-2
West Manheim Elem School	A3-67964-167-3	Public sewer		Approved 3/9/05
Marburg Pointe	A3-67964-165-2	on-lot	13	Disapproved 6/21/05
Carl Grubb	A3-67964-174-I	on-lot	2	Approved 2/24/05
First Church of God	A3-67964-166-I	on-lot	1	Approved 3/24/05
Lippy Farm	A3-67964-176-3	Private Sewer	143	Disapproved 11/6/06
Rodney F. Libernini	A3-67964-178-2	on-lot	2	Approved 5/18/05
Jack Gerver	A3-67964-163-2	on-lot	8	Approved 7/11/05
Jeff & Kathy Rice	A3-67964-172-2	on-lot	3	Approved 7/11/05
Richard & Carol Brown	A3-67964-175-2	on-lot	2	Approved 8/3/05
High Pointe at Rogen Farms South - Phase I	A3-67964-180-3	Public sewer		Approved 8/23/05
James Palmisano	W3-67964-187-5	on-lot		Filed 8/12/05
John & Joan Race & James & Teresa Palmisano	A3-67964-188-I	on-lot	1	Filed 8/12/05
Lutheran Social Services	A3-67964-179-3	Public sewer		Approved 12/8/05
Stone Ridge Dev.	A3-67964-170-2	on-lot	12	Approved 1/3/06
Marburg Pointe	B3-67964-165-2	on-lot	13	Disapproved 2/17/06

KC Plunkert	A3-67964-192-1	on-lot	1	Approved 1/30/06
Greco, Race, Palmisano	A3-67964-189-2	on-lot		Approved 5/5/06
Alan L. Ault	A3-67964-190-2	on-lot	2	Approved 4/6/06
Northfield Phase I	A3-67964-193-3	Public sewer	41	Approved 7/6/06
Jeff Wilson	A3-67964-196-1	on-lot	2	Approved 4/4/06
Charles & Pamela Bowman III	A3-67964-186-2	on-lot	4	Approved 7/6/06
Pleasant Hill Dog & Cat Hospital	A3-67964-197-1	on-lot	1	5/4/06-cannot use minor components new code # assigned A3-67964-199-2
High Pointe at Rogen Farms	A3-67964-195-3	Public sewer	5	Approved 7/25/06
Marburg Pointe	C3-67964-165-2	on-lot	13	Approved 7/25/06
Henry & Peggy Hobbs Jr.	A3-67964-181-2	on-lot		Approved 12/18/06
High Pointe at Rojen Farms Phase II	A3-67964-194-3	Public sewer		Approved 8/17/06
Reservoir Heights	A3-67964-173-3	Public sewer	144	Approved 10/17/06
Fuhrman Mill Heights	A3-67964-198-3	Public sewer	20	Approved 10/17/06
Charles W. Grubb	A3-67964-201-1	on-lot	4	Approved 9/14/06
Hemler Plaza	A3-67964-200-3	Public sewer		Approved 11/1/06
Joshua Hill	B3-67964-176-3	Private Sewer		Disapproved 3/19/07
260 Leppo Mill Rd.	A3-67964-205-1	on-lot		Sent back 4/30/07 must use major module pkg #A3-67964-206-2
260 Leppo Mill Rd.	A3-67964-206-1	on-lot		Disapproved 8/27/07
Pleasant Hill Dog & Cat Hospital	A3-67964-199-2	on-lot		Approved 8/31/07
Joshua Hill Farm	C3-67964-176-3	Private Sewer		Disapproved 1/14/08
Karl E. Moore	A3-67964-204-2	on-lot		Disapproved 4/22/09
Homestead Acres	A3-67964-211-3	Public sewer		Disapproved 4/18/08
Community Banks	A3-67964-212-3	Public sewer	1	Disapproved 4/18/08
Community Banks	B3-67964-212-3	Public sewer	1	Approved 5/4/09
Chester & Margie M. Utz	A3-67964-214-2	on-lot	3	Approved 7/2/08
401 Farmview Drive	A3-67964-213-2	on-lot	1	Approved 2/10/09
Joshua Hill	D3-67964-176-3	Private Sewer		Approved 12/29/08
Samuel & Linda Cox	A3-67964-215-1	on-lot	1	Approved 4/16/09
Walmart Real Estate Bus Trust	A3-67964-216-3	Public sewer	8	Approved 5/4/09
Bowman Estates	A3-67964-217-5	on-lot		Okayed for filing
Sheetz, Inc.	A3-67964-218-3	Public sewer	6	Approved 7/28/09
John Bond & Angela Schmuck	A3-67964-203-2	on-lot	4	Approved 7/23/09
Hoffman Subdivision	A3-67964-219-5	on-lot		Filed 4/30/09
Jerry & Lisa Wetzel	A3-67964-220-5	on-lot		Filed 5/8/09
Marlee Hill Farm	A3-67964-221-3	Public sewer	79	

APPENDIX II-1

TIER II WATER SAMPLES

1) 2009 Results – Analytical Laboratory Services, Inc.
2) 2000 Results – Laboratory, Analytical & Biological Services, Inc.
3) 1993 Results – Enviro-Lab, Inc.

1) 2009 Results – Analytical Laboratory Services, Inc.

LABORATORY SERVICES, INC.
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SAMPLE SUMMARY

Workorder 9796234 West Manheim Twp.-ACT 537 Discard Date: 07/11/2009

Lab ID	Sample ID	MAP LABEL	Matrix	Date Collected	Date Received	Collected By
9796234001	27 Eastwood	ER	Drinking Water	6/25/09 08:50	6/25/09 18:35	Customer
9796234002	55 Eastwood	ES	Drinking Water	6/25/09 09:00	6/25/09 18:35	Customer
9796234003	63 Eastwood	ET	Drinking Water	6/25/09 09:05	6/25/09 18:35	Customer
9796234004	83 Eastwood	EU	Drinking Water	6/25/09 09:20	6/25/09 18:35	Customer
9796234005	40 Marfield	EV	Drinking Water	6/25/09 09:45	6/25/09 18:35	Customer
9796234006	65 Marfield	EW	Drinking Water	6/25/09 09:55	6/25/09 18:35	Customer
9796234007	60 Marfield	EX	Drinking Water	6/25/09 10:01	6/25/09 18:35	Customer
9796234008	85 Marfield	EY	Drinking Water	6/25/09 10:08	6/25/09 18:35	Customer
9796234009	26 Wynfield	EZ	Drinking Water	6/25/09 10:40	6/25/09 18:35	Customer
9796234010	25 Wynfield	FA	Drinking Water	6/25/09 10:45	6/25/09 18:35	Customer
9796234011	185 Ridgewood	FB	Drinking Water	6/25/09 11:05	6/25/09 18:35	Customer

Workorder Comments:

Notes

- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
- Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- .. Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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ANALYTICAL RESULTS

Workorder 9796234 West Manheim Twp.-ACT 537

Lab ID: 9796234001 Date Collected: 6/25/2009 08:50 Matrix: Drinking Water
Sample ID: 27 Eastwood Date Received: 6/25/2009 18:35

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Nitrate-N	7.7		mg/L	0.20	EPA 300			6/26/09 08:18	JEP	C
MICROBIOLOGY										
Fecal Coliform	ND		col/100mL	1	SM20-9222 D			6/25/09 20:20	LLJ	B
Total Coliform	ND		col/100mL	1	SM20-9223	6/25/09	LLJ	6/26/09 20:55	LLJ	A

Sample Comments:

The Total Coliform analysis indicates that the sample does not exceed the drinking water limit established by the USEPA for Total Coliform and is considered to be bacteriologically potable. Zero Total Coliform colonies were detected.

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder 9796234 West Manheim Twp.-ACT 537

Lab ID: **9796234002** Date Collected: 6/25/2009 09:00 Matrix: Drinking Water

Sample ID: **55 Eastwood** Date Received: 6/25/2009 18:35

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Nitrate-N	6.4		mg/L	0.20	EPA 300			6/26/09 08:49	JEP	C
MICROBIOLOGY										
Fecal Coliform	ND		col/100mL	1	SM20-9222 D			6/25/09 20:21	LLJ	B
Total Coliform	ND		col/100mL	1	SM20-9223	6/25/09	LLJ	6/26/09 20:55	LLJ	A

Sample Comments:

The Total Coliform analysis indicates that the sample does not exceed the drinking water limit established by the USEPA for Total Coliform and is considered to be bacteriologically potable. Zero Total Coliform colonies were detected.

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ANALYTICAL RESULTS

Workorder 9796234 West Manheim Twp.-ACT 537

Lab ID: 9796234003 Date Collected: 6/25/2009 09:05 Matrix: Drinking Water
Sample ID: 63 Eastwood Date Received: 6/25/2009 18:35

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Nitrate-N	6.5		mg/L	0.20	EPA 300			6/26/09 10:19	JEP	C
MICROBIOLOGY										
Fecal Coliform	ND		col/100mL	1	SM20-9222 D			6/25/09 20:23	LLJ	B
Total Coliform	ND		col/100mL	1	SM20-9223	6/25/09	LLJ	6/26/09 20:55	LLJ	A

Sample Comments:

The Total Coliform analysis indicates that the sample does not exceed the drinking water limit established by the USEPA for Total Coliform and is considered to be bacteriologically potable. Zero Total Coliform colonies were detected.

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ANALYTICAL RESULTS

Workorder 9796234 West Manheim Twp.-ACT 537

Lab ID: 9796234004 Date Collected: 6/25/2009 09:20 Matrix: Drinking Water

Sample ID: 83 Eastwood Date Received: 6/25/2009 18:35

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Nitrate-N	5.9		mg/L	0.20	EPA 300			6/26/09 19:38	JEP	C
MICROBIOLOGY										
Fecal Coliform	ND		col/100mL	1	SM20-9222 D			6/25/09 20:24	LLJ	B
Total Coliform	1		col/100mL	1	SM20-9223	6/25/09	LLJ	6/26/09 20:55	LLJ	A

Sample Comments:

The Total Coliform analysis indicates that the sample exceeds the drinking water limit established by the USEPA and is considered bacteriologically nonpotable.

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ANALYTICAL RESULTS

Workorder 9796234 West Manheim Twp.-ACT 537

Lab ID: **9796234005** Date Collected: 6/25/2009 09:45 Matrix: Drinking Water

Sample ID: **40 Marfield** Date Received: 6/25/2009 18:35

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Nitrate-N	5.4		mg/L	0.20	EPA 300			6/26/09 10:50	JEP	C
MICROBIOLOGY										
Fecal Coliform	ND		col/100mL	1	SM20-9222 D			6/25/09 20:26	LLJ	B
Total Coliform	2		col/100mL	1	SM20-9223	6/25/09	LLJ	6/26/09 20:55	LLJ	A

Sample Comments:

The Total Coliform analysis indicates that the sample exceeds the drinking water limit established by the USEPA and is considered bacteriologically nonpotable.

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ANALYTICAL RESULTS

Workorder 9796234 West Manheim Twp.-ACT 537

Lab ID: **9796234006** Date Collected: 6/25/2009 09:55 Matrix: Drinking Water

Sample ID: **65 Marfield** Date Received: 6/25/2009 18:35

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Nitrate-N	0.50		mg/L	0.20	EPA 300			6/26/09 11:05	JEP	C
MICROBIOLOGY										
Fecal Coliform	ND		col/100mL	1	SM20-9222 D			6/25/09 20:27	LLJ	B
Total Coliform	4		col/100mL	1	SM20-9223	6/25/09	LLJ	6/26/09 20:55	LLJ	A

Sample Comments:

The Total Coliform analysis indicates that the sample exceeds the drinking water limit established by the USEPA and is considered bacteriologically nonpotable.

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ANALYTICAL RESULTS

Workorder 9796234 West Manheim Twp.-ACT 537

Lab ID: **9796234007** Date Collected: 6/25/2009 10:01 Matrix: Drinking Water

Sample ID: **60 Marfield** Date Received: 6/25/2009 18:35

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Nitrate-N	4.6		mg/L	0.20	EPA 300			6/26/09 11:35	JEP	C
MICROBIOLOGY										
Fecal Coliform	ND		col/100mL	1	SM20-9222 D			6/25/09 20:29	LLJ	B
Total Coliform	ND		col/100mL	1	SM20-9223	6/25/09	LLJ	6/26/09 20:55	LLJ	A

Sample Comments:

The Total Coliform analysis indicates that the sample does not exceed the drinking water limit established by the USEPA for Total Coliform and is considered to be bacteriologically potable. Zero Total Coliform colonies were detected.

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ANALYTICAL RESULTS

Workorder 9796234 West Manheim Twp.-ACT 537

Lab ID: **9796234008** Date Collected: 6/25/2009 10:08 Matrix: Drinking Water

Sample ID: **85 Marfield** Date Received: 6/25/2009 18:35

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Nitrate-N	4.7		mg/L	0.20	EPA 300			6/26/09 11:50	JEP	C
MICROBIOLOGY										
Fecal Coliform	ND		col/100mL	1	SM20-9222 D			6/25/09 20:31	LLJ	B
Total Coliform	>201 col/100ml			1	SM20-9223	6/25/09	LLJ	6/26/09 20:55	LLJ	A

Sample Comments:

The Total Coliform analysis indicates that the sample exceeds the drinking water limit established by the USEPA and is considered bacteriologically nonpotable.

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ANALYTICAL RESULTS

Workorder 9796234 West Manheim Twp.-ACT 537

Lab ID: 9796234009 Date Collected: 6/25/2009 10:40 Matrix: Drinking Water
Sample ID: 26 Wynfield Date Received: 6/25/2009 18:35

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Nitrate-N	6.1		mg/L	0.20	EPA 300			6/26/09 15:22	JEP	C
MICROBIOLOGY										
Fecal Coliform	ND		col/100mL	1	SM20-9222 D			6/25/09 20:33	LLJ	B
Total Coliform	ND		col/100mL	1	SM20-9223	6/25/09	LLJ	6/26/09 20:55	LLJ	A

Sample Comments:

The Total Coliform analysis indicates that the sample does not exceed the drinking water limit established by the USEPA for Total Coliform and is considered to be bacteriologically potable. Zero Total Coliform colonies were detected.

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ANALYTICAL RESULTS

Workorder 9796234 West Manheim Twp.-ACT 537

Lab ID: 9796234010 Date Collected: 6/25/2009 10:45 Matrix: Drinking Water
Sample ID: 25 Wynfield Date Received: 6/25/2009 18:35

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Nitrate-N	9.2		mg/L	0.20	EPA 300			6/26/09 15:52	JEP	C
MICROBIOLOGY										
Fecal Coliform	ND		col/100mL	1	SM20-9222 D			6/25/09 20:34	LLJ	B
Total Coliform	ND		col/100mL	1	SM20-9223	6/25/09	LLJ	6/26/09 20:55	LLJ	A

Sample Comments:

The Total Coliform analysis indicates that the sample does not exceed the drinking water limit established by the USEPA for Total Coliform and is considered to be bacteriologically potable. Zero Total Coliform colonies were detected.

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ANALYTICAL RESULTS

Workorder 9796234 West Manheim Twp.-ACT 537

Lab ID: **9796234011** Date Collected: 6/25/2009 11:05 Matrix: Drinking Water

Sample ID: **185 Ridgewood** Date Received: 6/25/2009 18:35

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Nitrate-N	1.4		mg/L	0.20	EPA 300			6/26/09 17:53	JEP	C
MICROBIOLOGY										
Fecal Coliform	ND		col/100mL	1	SM20-9222 D			6/25/09 20:36	LLJ	B
Total Coliform	ND		col/100mL	1	SM20-9223	6/25/09	LLJ	6/26/09 20:55	LLJ	A

Sample Comments:

The Total Coliform analysis indicates that the sample does not exceed the drinking water limit established by the USEPA for Total Coliform and is considered to be bacteriologically potable. Zero Total Coliform colonies were detected.

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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Page 1 of 2
Courier:
Tracking #:

9796234

Co. Name: C.S. Davidson
Contact (Report to): Phone:
Address: 38 N Duke street York PA 17404
Bill to (if different than Report to): PO#:
Project Name/#: ALSI Quote #:
TAT: Normal-Standard TAT is 10-12 business days. Rush-Subject to ALSI approval and surcharges. Date Required: Approved By:
Email? -Y
Fax? -Y No.:

	Analysis 1	Analysis 2	Analysis 3
***Container Type	P	P	P
***Container Size	100 ml	100 ml	100 ml
***Preservative	none	ST	ST
ANALYSES/METHOD REQUESTED	NO_3	Total Coliform	Fecal Coliform

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	NO_3	Total Coliform	Fecal Coliform
1 27 eastwood		6/25/13	0830	G	DW	1	1	1
2 55 eastwood		6/25/13	0900					
3 63 eastwood		6/25/13	0915					
4 83 eastwood		6/25/13	0920					
5 40 Marfield		6/25/13	0945					
6 65 Marfield		6/25/13	0955					
7 60 Marfield		6/25/13	1001					
8 85 Marfield		6/25/13	1008					

Enter Number of Containers Per Analysis

SAMPLED BY (Please Print): Anthony Campitelli
LOGGED BY (signature): Date 6/25/2013
REVIEWED BY (signature): 6-26-09 3/100

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1	6/25/13	1835	2	6/25	1835
3			4		
5			6		
7			8		
9			10		

Receipt Information (completed by Sample Receiving): Received by: Cooler Temp: 2 Therm. ID: No. of Coolers: Notes:

	Y	N
Correct containers?	Y	N
Correct sample volume?	Y	N
Correct preservation?	Y	N
Headspace/Volatiles?	Y	N
Custody seals Present?	Y	N
(If present) Seals Intact?	Y	N
Received on Ice?	Y	N
COC/Labels complete/accurate?	Y	N
Container in good condition?	Y	N

Circle appropriate Y or N.

Data Deliverables: Standard; CLP-like; NJ-Reduced; NJ-Full; EDDs Required? If yes, format type:
SDWA Forms? yes / yes / yes / yes; Other
State Samples Collected In? MD; NJ; NY; PA [X]
Enter PWSID No.
DOD Criteria Required?

ALSI FIELD SERVICES: Pickup; Labor [X]; Composite Sampling; Rental Equipment; Other:

* G=Grab; C=Composite **Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater.
***Container Type: AG-Amber Glass; CG-Clear Glass; PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY Rev 6/07

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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Page 2 of 2

Courier:

Tracking #:

SDC# 9796234

Co. Name: C.S. Davidson

Contact (Report to):

Phone:

Address: 38 N Duke St York PA 17404

Bill to (if different than Report to):

PO#:

Project Name/#:

ALSI Quote #:

TAT: ☐ Normal-Standard TAT is 10-12 business days. ☐ Rush-Subject to ALSI approval and surcharges.

Date Required:

Approved By:

Email? ☐ Y

Fax? ☐ Y No.:

***Container Type	P	P	P
***Container Size	100ml	100ml	100ml
Preservative	None	ST	ST
ANALYSES/METHOD REQUESTED	NO_3	Total Coliform	Fecal Coliform

#	Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	NO_3	Total Coliform	Fecal Coliform
1	26 Wynfield		6/25/9	1040	G	DW	1	1	1
2	25 Wynfield		6/25/9	1045	|	|	1	1	1
3	165 ridgewood		6/25/9	1105	|	|	1	1	1
4									
5									
6									
7									
8									

Enter Number of Containers Per Analysis

Receipt Information (completed by Sample Receiving)

Received by: [illegible] 6/25

Cooler Temp: 2

Therm. ID: 51023359

No. of Coolers:

Notes:

	Y	N
Custody seals Present?		N
(If present) Seals Intact?		
Received on ice?	Y	
COC/Labels complete/accurate?	Y	
Container in good condition?	Y	
Correct containers?	Y	
Correct sample volume?	Y	
Correct preservation?	Y	
Headspace/Volatiles?		

Circle appropriate Y or N.

SAMPLED BY (Please Print): Anthony Campitelli

LOGGED BY (signature): [signature] Date: 6/25/09

REVIEWED BY (signature): [signature] Date: 6-26-09 Time: 1000

#	Relinquished By / Company Name	Date	Time	#	Received By / Company Name	Date	Time
1	[signature]	6/25/9	1835	2	[signature]	6/25	1835
3				4			
5				6			
7				8			
9				10			

Data Deliverables: ☐ Standard ☐ CLP-like ☐ NJ-Reduced ☐ NJ-Full ☐

EDDs Required: ☐ If yes, format type:

SDWA Forms?: yes ☐ yes ☐ yes ☐ yes ☐ Other

State Samples Collected In?: MD ☐ NJ ☐ NY ☐ PA ☒

⇐Enter PWSID No.

DOD Criteria Required?

ALSI FIELD SERVICES: ☐ Pickup ☒ Labor ☐ Composite Sampling ☐ Rental Equipment ☐ Other:

* G=Grab; C=Composite **Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY ***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Rev 6/07

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Certificate of Analysis

Project Name:	WEST MANHEIM TWP - ACT 537	Workorder:	9795999
Purchase Order:		Workorder ID:	West Manheim Twp.-ACT 537

Mr. Michael Knouse
C.S. Davidson, Inc.
38 North Duke Street
York, PA 17401

June 29, 2009

Dear Mr. Knouse,

Enclosed are the analytical results for samples received by the laboratory on Wednesday, June 24, 2009

ALSI is a National Environmental Laboratory Accreditation Conference (NELAC) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAC.

If you have any questions regarding this certificate of analysis, please contact John Klingaman (Project Coordinator) or Anna G Milliken (Laboratory Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALSI's NELAC accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALSI.

NOTE: ALSI has changed the report generation tool and while we have tried to retain the existing format, you will notice some changes in the laboratory report. Please feel free to contact ALSI in case you have any questions.

Analytical Laboratory Services, Inc.

is page is included as part of the Analytical Report and
m e retained as a permanent record thereof.

Anna G Milliken
Laboratory Manager

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SAMPLE SUMMARY

Workorder 9795999 West Manheim Twp.-ACT 537

Discard Date: 07/11/2009

Lab ID	Sample ID	MAP LABEL	Matrix	Date Collected	Date Received	Collected By
9795999001	2785 Pleasant Hill	EA	Ground Water	6/24/09 09:40	6/24/09 18:17	Customer
9795999002	70 Marfield Circle	EB	Ground Water	6/24/09 10:10	6/24/09 18:17	Customer
9795999003	3528 Balto Pike	EC	Ground Water	6/24/09 10:25	6/24/09 18:17	Customer
9795999004	3 Northridge Road	ED	Ground Water	6/24/09 10:50	6/24/09 18:17	Customer
9795999005	45 Marfield Circle	EE	Ground Water	6/24/09 11:16	6/24/09 18:17	Customer
9795999006	75 Marfield Circle	EY	Ground Water	6/24/09 11:25	6/24/09 18:17	Customer
9795999007	80 Westwood	EM	Ground Water	6/24/09 11:47	6/24/09 18:17	Customer
9795999008	1 Westwood	EH	Ground Water	6/24/09 11:50	6/24/09 18:17	Customer
9795999009	101 Northridge Rd	EI	Ground Water	6/24/09 13:10	6/24/09 18:17	Customer
9795999010	70 Northridge Rd	EJ	Ground Water	6/24/09 13:25	6/24/09 18:17	Customer
9795999011	11 Northridge Rd	EK	Ground Water	6/24/09 13:35	6/24/09 18:17	Customer
9795999012	45 Wynfield	EL	Ground Water	6/24/09 13:42	6/24/09 18:17	Customer
9795999013	145 Ridgewood	EM	Ground Water	6/24/09 14:00	6/24/09 18:17	Customer
9795999014	100 Ridgewood	EN	Ground Water	6/24/09 14:10	6/24/09 18:17	Customer
9795999015	43 Eastwood	EO	Ground Water	6/24/09 14:30	6/24/09 18:17	Customer
9795999016	42 Eastwood	EP	Ground Water	6/24/09 14:35	6/24/09 18:17	Customer
9795999017	5 Marfield rd	EQ	Ground Water	6/24/09 15:07	6/24/09 18:17	Customer

Workorder Comments:

Notes

-- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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ANALYTICAL RESULTS

Workorder 9795999 West Manheim Twp.-ACT 537

Lab ID: **9795999001** Date Collected: 6/24/2009 09:40 Matrix: Ground Water

Sample ID: **2785 Pleasant Hill** Date Received: 6/24/2009 18:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Nitrate-N	10.6		mg/L	0.20	EPA 300			6/25/09 14:25	JEP	C
MICROBIOLOGY										
E. Coli	ND		col/100mL	1	SM20-9223			6/25/09 19:00	LLJ	B
Fecal Coliform	ND		col/100mL	1	SM20-9222 D			6/24/09 20:48	LLJ	A
Total Coliform	>201 col/100ml			1	SM20-9223	6/24/09	LLJ	6/25/09 19:00	LLJ	B

Sample Comments:

The Total Coliform analysis indicates that the sample exceeds the drinking water limit established by the USEPA and is considered bacteriologically nonpotable.

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder 9795999 West Manheim Twp.-ACT 537

Lab ID: **9795999002** Date Collected: 6/24/2009 10:10 Matrix: Ground Water

Sample ID: **70 Marfield Circle** Date Received: 6/24/2009 18:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Nitrate-N	6.4		mg/L	0.20	EPA 300			6/25/09 15:11	JEP	C
MICROBIOLOGY										
E. Coli	ND		col/100mL	1	SM20-9223			6/25/09 19:11	LLJ	B
Fecal Coliform	ND		col/100mL	1	SM20-9222 D			6/24/09 20:49	LLJ	A
Total Coliform	ND		col/100mL	1	SM20-9223	6/24/09	LLJ	6/25/09 19:11	LLJ	B

Sample Comments:

The Total Coliform analysis indicates that the sample does not exceed the drinking water limit established by the USEPA for Total Coliform and is considered to be bacteriologically potable. Zero Total Coliform colonies were detected.

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ANALYTICAL RESULTS

Workorder 9795999 West Manheim Twp.-ACT 537

Lab ID: 9795999003 Date Collected: 6/24/2009 10:25 Matrix: Ground Water

Sample ID: 3528 Balto Pike Date Received: 6/24/2009 18:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Nitrate-N	3.0		mg/L	0.20	EPA 300			6/25/09 17:27	JEP	C
MICROBIOLOGY										
E. Coli	ND		col/100mL	1	SM20-9223			6/25/09 19:11	LLJ	B
Fecal Coliform	ND		col/100mL	1	SM20-9222 D			6/24/09 21:04	LLJ	A
Total Coliform	ND		col/100mL	1	SM20-9223	6/24/09	LLJ	6/25/09 19:11	LLJ	B

Sample Comments:

The Total Coliform analysis indicates that the sample does not exceed the drinking water limit established by the USEPA for Total Coliform and is considered to be bacteriologically potable. Zero Total Coliform colonies were detected.

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ANALYTICAL RESULTS

Workorder 9795999 West Manheim Twp.-ACT 537

Lab ID: 9795999004 Date Collected: 6/24/2009 10:50 Matrix: Ground Water

Sample ID: 3 Northridge Road Date Received: 6/24/2009 18:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Nitrate-N	3.2		mg/L	0.20	EPA 300			6/25/09 17:14	JEP	C
MICROBIOLOGY										
E. Coli	ND		col/100mL	1	SM20-9223			6/25/09 19:11	LLJ	B
Fecal Coliform	ND		col/100mL	1	SM20-9222 D			6/24/09 21:05	LLJ	A
Total Coliform	1		col/100mL	1	SM20-9223	6/24/09	LLJ	6/25/09 19:11	LLJ	B

Sample Comments:

The Total Coliform analysis indicates that the sample exceeds the drinking water limit established by the USEPA and is considered bacteriologically nonpotable.

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ANALYTICAL RESULTS

Workorder 9795999 West Manheim Twp.-ACT 537

Lab ID: 9795999005 Date Collected: 6/24/2009 11:16 Matrix: Ground Water

Sample ID: 45 Marfield Circle Date Received: 6/24/2009 18:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Nitrate-N	7.1		mg/L	0.20	EPA 300			6/25/09 18:14	JEP	C
MICROBIOLOGY										
E. Coli	ND		col/100mL	1	SM20-9223			6/25/09 19:11	LLJ	B
Fecal Coliform	ND		col/100mL	1	SM20-9222 D			6/24/09 21:07	LLJ	A
Total Coliform	1		col/100mL	1	SM20-9223	6/24/09	LLJ	6/25/09 19:11	LLJ	B

Sample Comments:

The Total Coliform analysis indicates that the sample exceeds the drinking water limit established by the USEPA and is considered bacteriologically nonpotable.

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ANALYTICAL RESULTS

Workorder 9795999 West Manheim Twp.-ACT 537

Lab ID: 9795999006 Date Collected: 6/24/2009 11:25 Matrix: Ground Water

Sample ID: 75 Marfield Circle Date Received: 6/24/2009 18:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Nitrate-N	3.8		mg/L	0.20	EPA 300			6/25/09 18:29	JEP	C
MICROBIOLOGY										
E. Coli	ND		col/100mL	1	SM20-9223			6/25/09 19:11	LLJ	B
Fecal Coliform	ND		col/100mL	1	SM20-9222 D			6/24/09 21:08	LLJ	A
Total Coliform	>201 col/100ml			1	SM20-9223	6/24/09	LLJ	6/25/09 19:11	LLJ	B

Sample Comments:

The Total Coliform analysis indicates that the sample exceeds the drinking water limit established by the USEPA and is considered bacteriologically nonpotable.

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ANALYTICAL RESULTS

Workorder 9795999 West Manheim Twp.-ACT 537

Lab ID: **9795999007** Date Collected: 6/24/2009 11:47 Matrix: Ground Water

Sample ID: **80 Westwood** Date Received: 6/24/2009 18:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Nitrate-N	4.6		mg/L	0.20	EPA 300			6/25/09 20:28	JEP	C
MICROBIOLOGY										
E. Coli	ND		col/100mL	1	SM20-9223			6/25/09 19:11	LLJ	B
Fecal Coliform	ND		col/100mL	1	SM20-9222 D			6/24/09 21:09	LLJ	A
Total Coliform	66		col/100mL	1	SM20-9223	6/24/09	LLJ	6/25/09 19:11	LLJ	B

Sample Comments:

The Total Coliform analysis indicates that the sample exceeds the drinking water limit established by the USEPA and is considered bacteriologically nonpotable.

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ANALYTICAL RESULTS

Workorder 9795999 West Manheim Twp.-ACT 537

Lab ID: 9795999008 Date Collected: 6/24/2009 11:50 Matrix: Ground Water

Sample ID: 1 Westwood Date Received: 6/24/2009 18:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Nitrate-N	7.5		mg/L	0.20	EPA 300			6/25/09 20:43	JEP	C
MICROBIOLOGY										
E. Coli	ND		col/100mL	1	SM20-9223			6/25/09 19:11	LLJ	B
Fecal Coliform	ND		col/100mL	1	SM20-9222 D			6/24/09 21:11	LLJ	A
Total Coliform	ND		col/100mL	1	SM20-9223	6/24/09	LLJ	6/25/09 19:11	LLJ	B

Sample Comments:

The Total Coliform analysis indicates that the sample does not exceed the drinking water limit established by the USEPA for Total Coliform and is considered to be bacteriologically potable. Zero Total Coliform colonies were detected.

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ANALYTICAL RESULTS

Workorder 9795999 West Manheim Twp.-ACT 537

Lab ID: 9795999009 Date Collected: 6/24/2009 13:10 Matrix: Ground Water

Sample ID: 101 Northridge Rd Date Received: 6/24/2009 18:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Nitrate-N	4.2		mg/L	0.20	EPA 300			6/25/09 21:13	JEP	C
MICROBIOLOGY										
E. Coli	ND		col/100mL	1	SM20-9223			6/25/09 19:11	LLJ	B
Fecal Coliform	ND		col/100mL	1	SM20-9222 D			6/24/09 21:12	LLJ	A
Total Coliform	24		col/100mL	1	SM20-9223	6/24/09	LLJ	6/25/09 19:11	LLJ	B

Sample Comments:

The Total Coliform analysis indicates that the sample exceeds the drinking water limit established by the USEPA and is considered bacteriologically nonpotable.

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ANALYTICAL RESULTS

Workorder 9795999 West Manheim Twp.-ACT 537

Lab ID: 9795999010 Date Collected: 6/24/2009 13:25 Matrix: Ground Water

Sample ID: 70 Northridge Rd Date Received: 6/24/2009 18:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Nitrate-N	4.3		mg/L	0.20	EPA 300			6/25/09 21:44	JEP	C
MICROBIOLOGY										
E. Coli	ND		col/100mL	1	SM20-9223			6/25/09 19:11	LLJ	B
Fecal Coliform	ND		col/100mL	1	SM20-9222 D			6/24/09 21:14	LLJ	A
Total Coliform	ND		col/100mL	1	SM20-9223	6/24/09	LLJ	6/25/09 19:11	LLJ	B

Sample Comments:

The Total Coliform analysis indicates that the sample does not exceed the drinking water limit established by the USEPA for Total Coliform and is considered to be bacteriologically potable. Zero Total Coliform colonies were detected.

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ANALYTICAL RESULTS

Workorder 9795999 West Manheim Twp.-ACT 537

Lab ID: **9795999011** Date Collected: 6/24/2009 13:35 Matrix: Ground Water

Sample ID: **11 Northridge Rd** Date Received: 6/24/2009 18:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Nitrate-N	5.5		mg/L	0.20	EPA 300			6/25/09 21:59	JEP	C
MICROBIOLOGY										
E. Coli	ND		col/100mL	1	SM20-9223			6/25/09 19:11	LLJ	B
Fecal Coliform	ND		col/100mL	1	SM20-9222 D			6/24/09 21:15	LLJ	A
Total Coliform	ND		col/100mL	1	SM20-9223	6/24/09	LLJ	6/25/09 19:11	LLJ	B

Sample Comments:

The Total Coliform analysis indicates that the sample does not exceed the drinking water limit established by the USEPA for Total Coliform and is considered to be bacteriologically potable. Zero Total Coliform colonies were detected.

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ANALYTICAL RESULTS

Workorder 9795999 West Manheim Twp.-ACT 537

Lab ID: **9795999012** Date Collected: 6/24/2009 13:42 Matrix: Ground Water

Sample ID: **45 Wynfield** Date Received: 6/24/2009 18:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Nitrate-N	6.9		mg/L	0.20	EPA 300			6/25/09 22:14	JEP	C
MICROBIOLOGY										
E. Coli	ND		col/100mL	1	SM20-9223			6/25/09 19:11	LLJ	B
Fecal Coliform	ND		col/100mL	1	SM20-9222 D			6/24/09 21:16	LLJ	A
Total Coliform	15		col/100mL	1	SM20-9223	6/24/09	LLJ	6/25/09 19:11	LLJ	B

Sample Comments:

The Total Coliform analysis indicates that the sample exceeds the drinking water limit established by the USEPA and is considered bacteriologically nonpotable.

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ANALYTICAL RESULTS

Workorder 9795999 West Manheim Twp.-ACT 537

Lab ID: 9795999013 Date Collected: 6/24/2009 14:00 Matrix: Ground Water

Sample ID: 145 Ridgewood Date Received: 6/24/2009 18:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Nitrate-N	6.6		mg/L	0.20	EPA 300			6/26/09 00:00	JEP	C
MICROBIOLOGY										
E. Coli	ND		col/100mL	1	SM20-9223			6/25/09 19:11	LLJ	B
Fecal Coliform	ND		col/100mL	1	SM20-9222 D			6/24/09 21:33	LLJ	A
Total Coliform	3		col/100mL	1	SM20-9223	6/24/09	LLJ	6/25/09 19:11	LLJ	B

Sample Comments:

The Total Coliform analysis indicates that the sample exceeds the drinking water limit established by the USEPA and is considered bacteriologically nonpotable.

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ANALYTICAL RESULTS

Workorder 9795999 West Manheim Twp.-ACT 537

Lab ID: **9795999014** Date Collected: 6/24/2009 14:10 Matrix: Ground Water

Sample ID: **100 Ridgewood** Date Received: 6/24/2009 18:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Nitrate-N	4.5		mg/L	0.20	EPA 300			6/26/09 00:15	JEP	C
MICROBIOLOGY										
E. Coli	ND		col/100mL	1	SM20-9223			6/25/09 19:11	LLJ	B
Fecal Coliform	ND		col/100mL	1	SM20-9222 D			6/24/09 21:35	LLJ	A
Total Coliform	ND		col/100mL	1	SM20-9223	6/24/09	LLJ	6/25/09 19:11	LLJ	B

Sample Comments:

The Total Coliform analysis indicates that the sample does not exceed the drinking water limit established by the USEPA for Total Coliform and is considered to be bacteriologically potable. Zero Total Coliform colonies were detected.

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ANALYTICAL RESULTS

Workorder 9795999 West Manheim Twp.-ACT 537

Lab ID: **9795999015** Date Collected: 6/24/2009 14:30 Matrix: Ground Water

Sample ID: **43 Eastwood** Date Received: 6/24/2009 18:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Nitrate-N	4.6		mg/L	0.20	EPA 300			6/26/09 00:30	JEP	C
MICROBIOLOGY										
E. Coli	ND		col/100mL	1	SM20-9223			6/25/09 19:11	LLJ	B
Fecal Coliform	ND		col/100mL	1	SM20-9222 D			6/24/09 21:36	LLJ	A
Total Coliform	1		col/100mL	1	SM20-9223	6/24/09	LLJ	6/25/09 19:11	LLJ	B

Sample Comments:

The Total Coliform analysis indicates that the sample exceeds the drinking water limit established by the USEPA and is considered bacteriologically nonpotable.

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ANALYTICAL RESULTS

Workorder 9795999 West Manheim Twp.-ACT 537

Lab ID: 9795999016 Date Collected: 6/24/2009 14:35 Matrix: Ground Water

Sample ID: 42 Eastwood Date Received: 6/24/2009 18:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Nitrate-N	7.6		mg/L	0.20	EPA 300			6/26/09 00:45	JEP	C
MICROBIOLOGY										
E. Coli	ND		col/100mL	1	SM20-9223			6/25/09 19:11	LLJ	B
Fecal Coliform	ND		col/100mL	1	SM20-9222 D			6/24/09 21:38	LLJ	A
Total Coliform	ND		col/100mL	1	SM20-9223	6/24/09	LLJ	6/25/09 19:11	LLJ	B

Sample Comments:

The Total Coliform analysis indicates that the sample does not exceed the drinking water limit established by the USEPA for Total Coliform and is considered to be bacteriologically potable. Zero Total Coliform colonies were detected.

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ANALYTICAL RESULTS

Workorder 9795999 West Manheim Twp.-ACT 537

Lab ID: **9795999017** Date Collected: 6/24/2009 15:07 Matrix: Ground Water

Sample ID: **5 Marfield rd** Date Received: 6/24/2009 18:17

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Nitrate-N	6.9		mg/L	0.20	EPA 300			6/26/09 01:00	JEP	C
MICROBIOLOGY										
E. Coli	ND		col/100mL	1	SM20-9223			6/25/09 19:11	LLJ	B
Fecal Coliform	ND		col/100mL	1	SM20-9222 D			6/24/09 21:39	LLJ	A
Total Coliform	2		col/100mL	1	SM20-9223	6/24/09	LLJ	6/25/09 19:11	LLJ	B

Sample Comments:

The Total Coliform analysis indicates that the sample exceeds the drinking water limit established by the USEPA and is considered bacteriologically nonpotable.

Anna G Milliken
Laboratory Manager

Analytical Laboratory Services, Inc.
Environmental • Industrial Hygiene • Field Services
34 Dogwood Lane • Middletown, PA 17057 • 717.944.5541 • Fax 717.944.1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Page 1 of 3
Courier:
Tracking #:
* 9 7 9 5 9 9 9 *

Co. Name: C.S Davidson
Contact (Report to):
Phone:
Address: 38 N Duke St
York PA 17404
Bill to (if different than Report to):
PO#:
Project Name/#:
ALSI Quote #:
TAT: ☐ Normal-Standard TAT is 10-12 business days. ☐ Rush-Subject to ALSI approval and surcharges.
Date Required:
Approved By:
Email? ☐ -Y
Fax? ☐ -Y No.:

ANALYSES/METHOD REQUESTED

			NO3	Total FOC (x) coliform	FC
***Container Type			P	P	P
***Container Size			60ml	100ml	100ml
Preservative			none		

Enter Number of Containers Per Analysis

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	NO3	Total FOC coliform	FC
1 2785 Pleasant Hill		6/24/9	0940	G	DW	1	1	1
2 70 Marfield Circle		6/24/9	1010					
3 3525 Balt. pike		6/24/9	1025					
4 3 Northridge rd		6/24/9	1050					
5 45 Marfield circle		6/24/9	1116					
6 75 Marfield circle		6/24/9	1125					
7 80 Westwood		6/24/9	1147					
8 1 Westwood		6/24/9	1153					

SAMPLED BY (Please Print): Anthony Campitella
LOGGED BY (signature): [signature] 6/24 1853
REVIEWED BY (signature): [signature] 6-25-09 1409

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 [signature] ALSI	6/24/9	1817	2 [signature]	6/24	1817
3			4		
5			6		
7			8		
9			10		

Data Deliverables: ☐ Standard ☐ CLP-like ☐ NJ-Reduced ☐ NJ-Full ☐ Level ___
EDDs Required? ☐ If yes, format type:
SDWA Forms? yes ☐ yes ☐ yes ☐ yes ☐ Other
State Samples Collected In? MD ☐ NJ ☐ NY ☐ PA ☒
Enter PWSID No.
DOD Criteria Required?

Receipt Information (completed by Sample Receiving)
Performed by: [initials]
Cooler Temp: 7
Therm. ID: 3102355
No. of Coolers:
Notes:

	Y	N
Correct containers?	✓	
Correct sample volume?	✓	
Correct preservation?	✓	
Headspace/Volatiles?	✓	
Circle appropriate Y or N.		
Custody seals Present?		✓
(if present) Seals Intact?		
Received on Ice?	✓	
COC/Labels complete/accurate?	✓	
Container in good condition?	✓	

ALSI FIELD SERVICES
☐ Pickup
☒ Labor
☐ Composite Sampling
☐ Rental Equipment
☐ Other:

* G=Grab; C=Composite
**Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater.
***Container Type: AG-Amber Glass; CG-Clear Glass; PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.
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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Page 2 of 2
Courier:
Tracking #:

97808999

Co. Name: C.S. Davidson
Contact (Report to):
Phone:
Address: 38 North Duke st York PA 17404
Bill to (if different than Report to):
PO#:
Project Name/#:
ALSI Quote #:
TAT: ☐ Normal-Standard TAT is 10-12 business days. ☐ Rush-Subject to ALSI approval and surcharges.
Date Required:
Approved By:
Email? -Y
Fax? -Y No.:

***Container Type	P	P	P
***Container Size	100ml	100ml	100ml
Preservative	none	Amc	Amc

ANALYSES/METHOD REQUESTED: NO_3 | Total Coliform | FC

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	NO_3	Total Coliform	FC
1 101 Northridge rd		6/24/09	1310	G	DW	1	1	1
2 70 North ridge rd		6/24/09	1325					
3 11 Northridge		6/24/09	1335					
4 45 Wyndfield		6/24/09	1342					
5 145 Ridgewood		6/24/09	1400					
6 100 Ridgewood		6/24/09	1410					
7 43 Eastwood		6/24/09	1430					
8 42 Eastwood		6/24/09	1435					

Enter Number of Containers Per Analysis

Receipt Information (completed by Sample Receiver)
Performed by:
Cooler Temp: 2
Therm. ID: 5102355
No. of Coolers:
Notes:

Custody seals Present?	Y N
(If present) Seals intact?	Y N
Received on Ice?	Y ✓
COC/Labels complete/accurate?	Y ✓
Container in good condition?	Y ✓
Correct containers?	Y ✓
Correct sample volume?	Y ✓
Correct preservation?	Y ✓
Headspace/Volatiles?	Y N

Circle appropriate Y or N.

SAMPLED BY (Please Print): Anthony Campitella
LOGGED BY (signature): [signature] Date: 6/24/09 Time: 1783
REVIEWED BY (signature): [signature] Date: 6/25/09 Time: 1409

	Relinquished By / Company Name	Date	Time		Received By / Company Name	Date	Time
1	[signature]	6/24/09	1817	2	[signature]	6/24	1817
3				4			
5				6			
7				8			
9				10			

Data Deliverables: ☐ Standard ☐ CLP-like ☐ NJ-Reduced ☐ NJ-Full ☐ other
EDDs: ☐ If yes, format type:
SDWA Forms?: yes ☐ yes ☐ yes ☐ yes ☐ Other
State Samples Collected In?: MD ☐ NJ ☐ NY ☐ PA ☒
⇒Enter PWSID No.
DOD Criteria Required?

ALSI FIELD SERVICES: ☐ Pickup ☒ Labor ☐ Composite Sampling ☐ Rental Equipment ☐ Other:

* G=Grab; C=Composite
**Matrix: Al=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.
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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Page 3 of 3
Courier:
Tracking #:

9795#999

Co. Name: C.S Davidson
Contact (Report to):
Phone:
Address: 38 N Duke
York PA 17404
Bill to (if different than Report to):
PO#:
Project Name/#:
ALSI Quote #:
TAT: ☐ Normal-Standard TAT is 10-12 business days. ☐ Rush-Subject to ALSI approval and surcharges.
Date Required:
Approved By:
Email? ☐ -Y
Fax? ☐ -Y No.:

***Container Type			P	P	P				
***Container Size			1c(ml)	100ml	1c(ml)				
***Preservative			None	Auto (HNO3)	(HCl)				
ANALYSES/METHOD REQUESTED			NO3	Total Coliform	FC				

	Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	NO3	Total Coliform	FC
1	5 Wycfield rd		6/24/9	1507	G	DW	1	1	1
2									
3									
4									
5									
6									
7									
8									

Enter Number of Containers Per Analysis

Receipt Information (completed by Sample Receiving)
Relinquished by: [signature]
Cooler Temp: 2
Therm. ID: 1023151
No. of Coolers:
Notes:

Correct containers?	Y ✓	N
Correct sample volume?	Y ✓	N
Correct preservation?	Y ✓	N
Headspace/Volatiles?	Y ✓	N
Circle appropriate Y or N.		
Custody seals Present?	Y	N ✓
(If present) Seals Intact?	Y	N
Received on ice?	Y ✓	N
COC/Labels complete/accurate?	Y ✓	N
Container in good condition?	Y ✓	N

SAMPLED BY (Please Print): Anthony Campitella
LOGGED BY (signature): [signature] Date: 6/24 Time: 2032
REVIEWED BY (signature): [signature] Date: 6-25-09 Time: 1401

	Relinquished By / Company Name	Date	Time		Received By / Company Name	Date	Time
1	[signature]	6/24/9	1817	2	Megan Albright	6/24	1817
3				4			
5				6			
7				8			
9				10			

Data Deliverables: ☐ Standard ☐ CLP-like ☐ NJ-Reduced ☐ NJ-Full ☐
EDDs Required? ☐ If yes, format type:
SDWA Forms? yes ☐ yes ☐ yes ☐ yes ☐ Other
State Samples Collected In? MD ☐ NJ ☐ NY ☐ PA ☒
➔Enter PWSID No.
DOD Criteria Required?

ALSI FIELD SERVICES
☐ Pickup
☒ Labor
☐ Composite Sampling
☐ Rental Equipment
☐ Other:

* G=Grab; C=Composite
**Matrix: Al=Air; DW=Drinking Water; GW=Groundwater; Ol=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
***Container Type: AG-Amber Glass; CG-Clear Glass; PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

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Certificate of Analysis

Project Name:	**WEST MANHEIM TWP - ACT 537**	Workorder:	**9797096**
Purchase Order:		Workorder ID:	**West Manheim Twp.-ACT 537**

Mr. Michael Knouse
C.S. Davidson, Inc.
38 North Duke Street
York, PA 17401

July 3, 2009

Dear Mr. Knouse,

Enclosed are the analytical results for samples received by the laboratory on Wednesday, July 01, 2009

ALSI is a National Environmental Laboratory Accreditation Conference (NELAC) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAC.

If you have any questions regarding this certificate of analysis, please contact John Klingaman (Project Coordinator) or Anna G Milliken (Laboratory Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALSI's NELAC accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALSI.

NOTE: ALSI has changed the report generation tool and while we have tried to retain the existing format, you will notice some changes in the laboratory report. Please feel free to contact ALSI in case you have any questions.

Analytical Laboratory Services, Inc.

Anna G Milliken
Laboratory Manager

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

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SAMPLE SUMMARY

Workorder 9797096 West Manheim Twp.-ACT 537

Discard Date: 07/17/2009

Lab ID	Sample ID	MAP LABEL	Matrix	Date Collected	Date Received	Collected By
9797096001	508 Fuhrman Mill Road	FC	Ground Water	7/1/09 14:30	7/1/09 18:40	Chad Dabler
9797096002	588 Fuhrman Mill Road	FD	Ground Water	7/1/09 14:45	7/1/09 18:40	Chad Dabler
9797096003	624 Fuhrman Mill Road	FE	Ground Water	7/1/09 15:00	7/1/09 18:40	Chad Dabler

Workorder Comments:

Notes

-- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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ANALYTICAL RESULTS

Workorder 9797096 West Manheim Twp.-ACT 537

Lab ID: **9797096001** Date Collected: 7/1/2009 14:30 Matrix: Ground Water

Sample ID: **508 Fuhrman Mill Road** Date Received: 7/1/2009 18:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Nitrate-N	5.9		mg/L	0.20	EPA 300			7/2/09 21:45	JEP	C
MICROBIOLOGY										
E. Coli	ND		col/100mL	1	SM20-9223			7/2/09 19:22	LLJ	B
Fecal Coliform	3		col/100mL	1	SM20-9222 D			7/1/09 20:43	LLJ	A
Total Coliform	>201 col/100ml			1	SM20-9223	7/1/09	LLJ	7/2/09 19:22	LLJ	B

Sample Comments:

The Total Coliform analysis indicates that the sample exceeds the drinking water limit established by the USEPA and is considered bacteriologically nonpotable.

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder 9797096 West Manheim Twp.-ACT 537

Lab ID: 9797096002 Date Collected: 7/1/2009 14:45 Matrix: Ground Water

Sample ID: 588 Fuhrman Mill Road Date Received: 7/1/2009 18:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Nitrate-N	7.2		mg/L	0.20	EPA 300			7/2/09 23:12	JEP	C
MICROBIOLOGY										
E. Coli	ND		col/100mL	1	SM20-9223			7/2/09 19:22	LLJ	B
Fecal Coliform	ND		col/100mL	1	SM20-9222 D			7/1/09 20:46	LLJ	A
Total Coliform	1		col/100mL	1	SM20-9223	7/1/09	LLJ	7/2/09 19:22	LLJ	B

Sample Comments:

The Total Coliform analysis indicates that the sample exceeds the drinking water limit established by the USEPA and is considered bacteriologically nonpotable.

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder 9797096 West Manheim Twp.-ACT 537

Lab ID: **9797096003** Date Collected: 7/1/2009 15:00 Matrix: Ground Water

Sample ID: **624 Fuhrman Mill Road** Date Received: 7/1/2009 18:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Nitrate-N	8.1		mg/L	0.20	EPA 300			7/2/09 23:27	JEP	C
MICROBIOLOGY										
E. Coli	ND		col/100mL	1	SM20-9223			7/2/09 19:22	LLJ	B
Fecal Coliform	21		col/100mL	1	SM20-9222 D			7/1/09 20:45	LLJ	A
Total Coliform	32		col/100mL	1	SM20-9223	7/1/09	LLJ	7/2/09 19:22	LLJ	B

Sample Comments:

The Total Coliform analysis indicates that the sample exceeds the drinking water limit established by the USEPA and is considered bacteriologically nonpotable.

Anna G Milliken
Laboratory Manager

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www.analyticallab.com
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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Page ___ of ___
Courier:
Tracking #:

* 9 7 9 7 0 9 6 *

Co. Name: CS Davidson, Inc.
Contact (Report to):
Phone: (717) 846-4805
Address: 38 North Duke St
York, PA. 17404

Bill to (if different than Report to):
PO#:

Project Name/#: Fuhrman Mill RD.
ALSI Quote #:

TAT: [ ] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALSI approval and surcharges.
Date Required:
Approved By:

Email? [ ] Y
Fax? [ ] Y No.

	***Container Type	PL	PL	PL
	***Container Size	250	100	100
	***Preservative	–	W2329	AB2582

ANALYSES/METHOD REQUESTED

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	NO3	TC	FC
1 508 Fuhrman Mill RD		7/1/09	1430	G	DW	1	1	1
2 588 Fuhrman Mill RD		7/1/09	1445	G	DW	1	1	1
3 624 Fuhrman Mill RD		7/1/09	1500	G	DW	1	1	1
4								
5								
6								
7								
8								

Enter Number of Containers Per Analysis

Receipt Information (completed by Sample Receiving)
Performed by: [signature]
Cooler Temp: 2
Therm. ID: SW0505
No. of Coolers:
Notes:

	Y	N
Correct containers?	✓	
Correct sample volume?	✓	
Correct preservation?	✓	
Headspace/Volatiles?		
Custody seals Present?		✓
(if present) Seals Intact?		
Received on Ice?	✓	
COC/Labels complete/accurate?	✓	
Container in good condition?	✓	

Circle appropriate Y or N.

SAMPLED BY (Please Print): CHAD DAGLER
LOGGED BY (signature): [signature] Date: 7-1-09 Time: 2010
REVIEWED BY (signature): [signature] Date: 7-2-09 Time: 1431

	Relinquished By / Company Name	Date	Time		Received By / Company Name	Date	Time
1	Chad Dagler ACI	7/1/09	1840	2	[signature]	7-1-09	1840
3				4			
5				6			
7				8			
9				10			

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ]
EDDs Required? [ ] If yes, format type:
SDWA Forms? yes [ ] yes [ ] yes [ ] yes [ ] Other
State Samples Collected In? MD [ ] NJ [ ] NY [ ] PA [ ]
Enter PWSID No.
DOD Criteria Required?

ALSI FIELD SERVICES
[ ] Pickup
[X] Labor
[ ] Composite Sampling
[ ] Rental Equipment
[ ] Other:

* G=Grab; C=Composite
**Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.
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2) 2000 Results – Laboratory, Analytical & Biological Services, Inc.

Laboratory, Analytical & Biological Services, Inc.

P.O. Box 836
409 North Avenue
East Berlin, PA 17316

Phone (717)-259-6550
Fax (717)-259-0766
PADEP Lab ID No. 01-550

Mr. John A. Klinedinst P.E.
C.S. Davidson, Inc.
38 N. Duke Street
York, Pa. 17401

06-19-00
DRINKING WATER REPORT

SAMPLE NAME: **WEST MANHIEM TOWNSHIP**
SAMPLE ADDRESS: **ACT 537**
DATE COLLECTED: **05-15-00**
COLLECTED BY: **LABS,INC FR**

MAP LABEL	NAME ADDRESS	TOTAL COLIFORM	FECAL COLIFORM	NITRATE		MAP LOCATION
A	#1 Bryant 809 Fairview Rd.	0/100	0/100	5.32	mg/l	A2
B	#3 Gobrecht 1753 Beck Mill Rd.	**24/100**	0/100	<1	mg/l	A3
C	#5 Smith 50 Grand Valley Rd.	0/100	0/100	1.59	mg/l	A3
D	#9 Morningstar 420 Impounding	**43/100**	0/100	4.85	mg/l	A3
E	#12 Moll 243 Vegas Drive	0/100	0/100	1.93	mg/l	B3
F	#41 Harner 170 Kennedy Drive	0/100	0/100	**15.29**	mg/l	B3
G	#13 Holm 165 Leppo Mill Rd.	0/100	0/100	4.64	mg/l	B4
H	#15 Mummert 246 Leppo Mill Rd.	0/100	0/100	9.86	mg/l	A4
H	#19 Frock 203 Raubenstine Rd.	**62/100**	**57/100**	7.91	mg/l	A5
J	#20 Davis 1019 Grand Valley	0/100	0/100	<1	mg/l	A5
K	#21 UTZ 1020 Grand Valley	0/100	0/100	1.27	mg/l	B5
L	#22 Con(1) 1204 Grand Valley	0/100	0/100	4.76	mg/l	B5
M	#23 Con(2) 1204 Grand Valley	0/100	0/100	4.74	mg/l	B5
N	#24 Jemison 1255 Grand Valley	0/100	0/100	**10.40**	mg/l	A5
O	#25 Wagaman 1418 Grand Valley	0/100	0/100	6.98	mg/l	B5
P	#26 Saltzgiver 397 St. Bart	0/100	0/100	9.62	mg/l	B5
Q	#27 Staub 285 Bartholomew	0/100	0/100	<1	mg/l	B5
R	#28 Wagaman 360 St. Bart	0/100	0/100	3.28	mg/l	B5
S	#29 Mummert 945 Bankerd Rd.	0/100	0/100	1.36	mg/l	B5
T	#30 Mummert 955 Bankerd Rd.	0/100	0/100	9.06	mg/l	B5
U	#31 Eyler 1330 Bankerd Rd.	0/100	0/100	1.11	mg/l	C5
V	#34 Calhoun 62 St. Bart	0/100	0/100	<1	mg/l	B5

MAP LABEL	NAME ADDRESS	TOTAL COLIFORM	FECAL COLIFORM	NITRATE		GRID LOCATION
W	#35 Winchester 60 Waterview Rd.	0/100	0/100	9.28	mg/l	B4
X	#36 Gienski 15 Waterview Rd.	0/100	0/100	7.96	mg/l	B4
Y	#44 Young 1652 Baltimore Pike	0/100	0/100	2.11	mg/l	B2
Z	#43 Becker 1983 Baltimore Pike	0/100	0/100	2.60	mg/l	C3
AA	#47 Rhodes 583 Pumping Station	**>80/100**	**26/100**	3.72	mg/l	C2
AB	#49 Datesman 1594 Oakwood Dr.	0/100	0/100	**21.06**	mg/l	C2
AC	#50 Grimes 1675 Oakwood Dr.	0/100	0/100	7.74	mg/l	D2
AD	#45 Rebert 423 Pumping Station	0/100	0/100	**13.74**	mg/l	C2
AE	#125 Dolam 41 Waterview Rd.	0/100	0/100	4.86	mg/l	B5

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Sincerely,
Laboratory, Analytical & Biological Services, Inc.

Approved By: FRED RICHSTIEN or WESLEY WOLF

Laboratory, Analytical & Biological Services, Inc.

P.O. Box 836
409 North Avenue
East Berlin, PA 17316

Phone (717)-259-6550
Fax (717)-259-0766
PADEP Lab ID No. 01-550

Mr. John A. Klinedinst P.E.
C.S. Davidson, Inc.
38 N. Duke Street
York, Pa. 17401

06-19-00
DRINKING WATER REPORT

SAMPLE NAME: **WEST MANHIEM TOWNSHIP**
SAMPLE ADDRESS: **ACT 537**
DATE COLLECTED: **05-16-00**
COLLECTED BY: **LABS,INC FR**

MAP LABEL	NAME ADDRESS	TOTAL COLIFORM	FECAL COLIFORM	NITRATE		GRID LOCATION
AF	#98 Moyer 1040 Frogtown Rd.	0/100	0/100	1.06	mg/l	E4
AG	#51 Thompson 341 Valley View	0/100	0/100	5.84	mg/l	D2
AH	#52 Queshroc 1713 Oakwood Dr.	0/100	0/100	<1	mg/l	D2
AI	#53 Kenneman 1772 Oakwood Dr.	0/100	0/100	<1	mg/l	D2
AJ	#55 Larrick 221 Valley View Dr.	**26/100**	0/100	9.70	mg/l	D2
AK	#58 Cockley 1808 Oakwood Dr.	0/100	0/100	5.58	mg/l	D2
AL	#59 Gabelli 49 Valley View Dr.	**>80/100**	**>80/100**	2.36	mg/l	D2
AM	#65 Bowman 695 Fuhrman Mill	0/100	0/100	6.81	mg/l	D3
AN	#68 Wentz 2630 Pleasant Hill Rd.	0/100	0/100	6.77	mg/l	D4
AO	#69 Mummert 262 Pleasant Hill	**33/100**	0/100	6.86	mg/l	D4
AP	#71 Gatz 2853 Pleasant Hill	**47/100**	**22/100**	9.64	mg/l	D4
AQ	#76 Gibson 3784 Baltimore Pike	0/100	0/100	4.72	mg/l	E5
AR	#77 Cockey 225 Tracey Rd.	0/100	0/100	<1	mg/l	E5
AS	#78 Caltreider 2704 Mt. Ventus	0/100	0/100	2.49	mg/l	E5
AT	#80 Wentz 731 Glenville Rd.	0/100	0/100	3.69	mg/l	F5
AU	#81 Grog 455 Glenville Rd.	0/100	0/100	8.08	mg/l	F5
AV	#82 Gilbert 501 Tracey Rd.	0/100	0/100	1.54	mg/l	E5
AW	#83 Gilbert 297 Hobart Rd.	0/100	0/100	6.26	mg/l	E5
AX	#85 St. Davids UCC 142 Hobart	**9/100**	0/100	1.32	mg/l	D5
AY	#86 St. Davids UCC 142 Hobart	0/100	0/100	<1	mg/l	E5
AZ	#88 Lawyer 100 Glenville Rd.	0/100	0/100	7.29	mg/l	E5
BA	#89 Hawkins 671 Tracey Rd.	0/100	0/100	8.10	mg/l	E5

MAP LABEL	NAME ADDRESS	TOTAL COLIFORM	FECAL COLIFORM	NITRATE		GRID LOCATION
BB	#90 Hempfing 372 Hobart Rd.	0/100	0/100	7.36	mg/l	E5
BC	#91 St. Davids 1032 Musselman	0/100	0/100	1.59	mg/l	D4
BD	#96 Rodgers 540 Musselman Rd.	0/100	0/100	<1	mg/l	E4
BE	#97 Delozier 1051 Frogtown Rd	**11/100**	0/100	2.88	mg/l	E4
BF	#99 Graybill 1082 Frogtown Rd.	0/100	0/100	4.06	mg/l	E4

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C.S. Davidson, Inc.
38 N. Duke Street
York, Pa. 17401

06-19-00
DRINKING WATER REPORT

SAMPLE NAME: **WEST MANHIEM TOWNSHIP**
SAMPLE ADDRESS: **ACT 537**
DATE COLLECTED: **05-17-00**
COLLECTED BY: **LABS,INC FR**

MAP LABEL	NAME ADDRESS	TOTAL COLIFORM	FECAL COLIFORM	NITRATE		GRID LOCATION
BG	#102 Plunkert 1012 Hobart Rd.	0/100	0/100	2.11	mg/l	E4
BH	#103 Brady 2900 Black Rock Rd.	0/100	0/100	4.88	mg/l	E3
BI	#104 Taylor 2651 Black Rock Rd.	0/100	0/100	7.49	mg/l	E3
BJ	#110 Chronister 545 Frogtown Rd.	0/100	0/100	3.30	mg/l	D3
BK	#111 Warner 653 Fuhrman Mill	0/100	0/100	8.98	mg/l	D3
BL	#112 Weismantel 961 Fuhrman	0/100	0/100	6.00	mg/l	D3
BM	#113 Dayhoff 65 Mummert Ave.	0/100	0/100	8.28	mg/l	E3
BN	#114 Leppo 2329 Black Rock Rd.	0/100	0/100	2.54	mg/l	E3
BO	#115 Wentz 2207 Black Rock Rd.	0/100	0/100	4.70	mg/l	E2
BP	#116 Yingling 61 Frogtown Rd.	**>80/100**	**20/100**	**16.41**	mg/l	D2
BQ	#118 Dickensheets 190 Dubs Ch	0/100	0/100	<1	mg/l	E2
BR	#121 Pleasant Hill 2633 Baltimore	0/100	0/100	2.53	mg/l	C4
BS	#2 Burk 1675 Beck Mill Rd.	0/100	0/100	5.46	mg/l	A3
BT	#33 Frock 210 St. Bartholomew	0/100	0/100	1.27	mg/l	B5
BU	#11 Jones 577 Impounding Dam	**10/100**	0/100	5.38	mg/l	B3
BV	#117 Frace 135 Shady Lane	**30/100**	**6/100**	4.00	mg/l	E2
BW	#124 Wentz 2917 Baltimore Pike	**20/100**	**10/100**	6.61	mg/l	D4

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York, Pa. 17401

06-19-00
DRINKING WATER REPORT

SAMPLE NAME: **WEST MANHIEM TOWNSHIP**
SAMPLE ADDRESS: **ACT 537**
DATE COLLECTED: **05-22-00**
COLLECTED BY: **LABS,INC FR**

MAP LABEL	NAME ADDRESS	TOTAL COLIFORM	FECAL COLIFORM	NITRATE		GRID LOCATION
BX	#17 Cox 124 Rabenstine Rd.	0/100	0/100	<1	mg/l	A4
BY	#18 Ormond 119 Rabenstine Rd.	0/100	0/100	2.81	mg/l	A4
BZ	#67 Appell 191 Utz Dr.	0/100	0/100	8.81	mg/l	D4
CA	#122 Whitney 2781 Baltimore Pike	0/100	0/100	**12.04**	mg/l	C4
CB	#87 Hilbert 15 Glenville Rd.	0/100	0/100	1.67	mg/l	E5
CC	#95 Alwine 775 Hobart	0/100	0/100	6.56	mg/l	E4
CD	#4 Dillon 33 Impounding Dam	0/100	0/100	<1	mg/l	A3
CE	#109 Moore 314 Musselman	0/100	0/100	2.04	mg/l	E3
CF	#6 Plunkert 99 Impounding Dam	**16/100**	**3/100**	5.14	mg/l	A3
CG	#64 Kosloski 2176 Oakwood	**11/100**	0/100	7.24	mg/l	D3
CH	#75 Reading 2189 Impounding	**7/100**	**2/100**	7.67	mg/l	D5
CI	#84 Stremmel 55 Shermans Ch	0/100	0/100	8.52	mg/l	E5
CJ	#63 Marsh 540 Fuhrman Mill	0/100	0/100	7.84	mg/l	D3
CK	#48 Weaver 38 Marianne Dr.	0/100	0/100	5.33	mg/l	C2
CL	#126 Crumrine 177 Raubenstine	0/100	0/100	<1	mg/l	A4

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38 N. Duke Street
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06-19-00
DRINKING WATER REPORT

SAMPLE NAME: **WEST MANHIEM TOWNSHIP**
SAMPLE ADDRESS: **ACT 537**
DATE COLLECTED: **05-24-00**
COLLECTED BY: **LABS,INC FR**

MAP LABEL	NAME ADDRESS	TOTAL COLIFORM	FECAL COLIFORM	NITRATE		GRID LOCATION
CM	#74 Fuhrman 120 Deer Rd.	0/100	0/100	5.59	mg/l	D5
CN	#54 Groft 111 Lindsay Lane	**8/100**	**7/100**	<1	mg/l	D2
CO	#100 Gilbert 912 Hobart Rd.	0/100	0/100	4.07	mg/l	E4

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Mr. John A. Klinedinst P.E.
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38 N. Duke Street
York, Pa. 17401

06-14-00
DRINKING WATER REPORT

SAMPLE NAME: **WEST MANHIEM TOWNSHIP**
SAMPLE ADDRESS: **ACT 537**
DATE COLLECTED: **06-05-00**
COLLECTED BY: **LABS,INC FR**

MAP LABEL	NAME ADDRESS	TOTAL COLIFORM	FECAL COLIFORM	NITRATE		GRID LOCATION
CP	C-Clouser 520 Impounding Dam	**33/100**	**12/100**	5.08	mg/l	B3
CQ	D-Hughes 757 Fairview Dr.	0/100	0/100	8.52	mg/l	A3
CR	G-Sterner 806 Fairview Dr.	0/100	0/100	5.61	mg/l	A3
CS	H-Ault 274 Lepp Mill Rd.	0/100	0/100	5.00	mg/l	A4
CT	I-Moose 555 RaubenstineRd.	**44/100**	**39/100**	<1	mg/l	A4
CU	J-Kaufman 1294 Grand Valley Rd.	0/100	0/100	9.12	mg/l	B5
CV	K-Leppo 5311 Geeting Rd.	**6/100**	0/100	9.84	mg/l	B5
CW	L-Brady 295 St. Bartholomew	**36/100**	**48/100**	5.71	mg/l	B5
CX	M-Crawford 243 St. Bartholomew	0/100	0/100	2.97	mg/l	B5
CY	O-Vincent 394 Laurence Dr.	0/100	0/100	9.77	mg/l	C4
CZ	F-Bollinger 861 Sunset Dr.	**47/100**	**9/100**	<1	mg/l	A3
DA	N-Blank 1200 Impounding Dam	**26/100**	**4/100**	4.62	mg/l	B4

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York, Pa. 17401

06-23-00
DRINKING WATER REPORT

SAMPLE NAME: **WEST MANHIEM TOWNSHIP**
SAMPLE ADDRESS: **ACT 537**
DATE COLLECTED: **06-12-00**
COLLECTED BY: **LABS,INC FR**

MAP LABEL	NAME ADDRESS	TOTAL COLIFORM	FECAL COLIFORM	NITRATE		GRID LOCATION
DB	R- Laughlin 246 Valley View	0/100	0/100	5.30	mg/l	D2
DC	S- Shue 432 Frogtown Rd.	**>80/100**	**47/100**	2.93	mg/l	D3
DD	U- Martz 701 Pumping Station Rd.	**46/100**	**31/100**	2.99	mg/l	D2
DE	V- Kaefer 300 Dubs Church Rd.	0/100	0/100	**11.71**	mg/l	E2
DF	X- Caprio 101 Knollwood Lane	**53/100**	0/100	3.26	mg/l	E2
DG	Y- Mathias 92 Musselman Rd.	0/100	0/100	7.91	mg/l	E3
DH	Z- Bixler 2444 Black Rock Rd.	**11/100**	0/100	6.37	mg/l	E2
DI	AA- Bixler 2506 Black Rock Rd.	0/100	0/100	5.30	mg/l	E3
DJ	BB- Pottoroff 2650 Black Rock Rd.	0/100	0/100	**13.68**	mg/l	E3
DK	DD- Klinedinst 845 Hobart Rd.	**11/100**	0/100	<1	mg/l	E4
DL	EE- Ross 909 Tracy Rd.	0/100	0/100	9.65	mg/l	E4
DM	II- Haines 15 Shaffer Circle	0/100	0/100	2.21	mg/l	D5
DN	JJ- Orndorff 65 Shaffer Circle	0/100	0/100	<1	mg/l	D5
DO	KK- Bohn 5 Shermans Church Rd.	**>80/100**	**52/100**	**15.38**	mg/l	E5
DP	LL- Murphy 118 Knollwood Lane	0/100	0/100	<1	mg/l	E2
DQ	MM- Taylor 28 Knollwood Lane	0/100	0/100	3.28	mg/l	E2
DR	CC- Dotson 156 Glenville Rd.	0/100	0/100	8.48	mg/l	E5
DS	P- Groft 291 Lawrence	24/100	0/100	8.66	mg/l	C4
DT	T- O'Leary 1548 Oakwood Dr.	0/100	0/100	5.88	mg/l	C2

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Mr. John A. Klinedinst P.E.
C.S. Davidson Inc
38 N. Duke Street
York, Pa. 17401

09-18-00
DRINKING WATER REPORT

SAMPLE NAME: **WEST MANHIEM TOWNSHIP**
SAMPLE ADDRESS: **ACT 537**
DATE COLLECTED: **08-30-00**
COLLECTED BY: **LABS.INC FR**

MAP LABEL	NAME ADDRESS	TOTAL COLIFORM	FECAL COLIFORM	NITRATE	GRID LOCATION
1	#1 Shutts 8 Lakeview Terrace	0/100	0/100	9.60 mg/l	D2
2	#2 Warner 87 Lakeview Terrace	0/100	0/100	5.38 mg/l	D2
3	#3 Canouse 39 Lakeview Terrace	0/100	0/100	8.99 mg/l	D2
4	#4 Bubb 63 Lakeview Terrace	0/100	0/100	1.84 mg/l	D2
5	#5 Eisenhower 32 Lakeview Terr	0/100	0/100	6.72 mg/l	D2
6	#7 Garrett 39 Lakeview Terrace	0/100	0/100	7.78 mg/l	D2
7	#8 Rummel 33 Lindsay Lane	0/100	0/100	7.94 mg/l	D2
8	#9 Hartlaub 120 Lindsay Lane	0/100	0/100	**13.2** mg/l	D2
9	#10 Rothrock 59 Marianne Drive	0/100	0/100	2.77 mg/l	C2
10	#11 Belt 48 Marianne Drive	0/100	0/100	3.41 mg/l	C2
11	#12 Zink 35 Marianne Drive	0/100	0/100	3.29 mg/l	C2
12	#13 Bankert 1582 Oakwood Drive	0/100	0/100	6.79 mg/l	C2
13	#14 Miller 1597 Oakwood Drive	**10/100**	0/100	6.60 mg/l	C2
14	#15 Bortner 1739 Oakwood Dr	0/100	0/100	3.96 mg/l	D2
15	#16 Lentz 1617 Oakwood Drive	0/100	0/100	7.45 mg/l	C2
16	#17 Watson 1600 Oakwood Drive	0/100	0/100	7.41 mg/l	C2
17	#18 Shanbrook 1649 Oakwood Dr	0/100	0/100	5.84 mg/l	C2
18	#19 Gillman 33 Valley View Dr	0/100	0/100	6.42 mg/l	D2
19	#20 Dalrymple 268 Valley View	**30/100**	**8/100**	8.73 mg/l	D2
20	#21 Williams 122 Valley View Dr	0/100	0/100	5.31 mg/l	D2
21	#22 Beck 177 Valley View Drive	0/100	0/100	7.36 mg/l	D2
22	#23 Therit 80 Lindsay Lane	0/100	0/100	2.62 mg/l	D2
23	#26 Meckley 59 Lakeview Terr	0/100	0/100	5.32 mg/l	D2
24	#27 Nace 94 Marianne Drive	0/100	0/100	1.95 mg/l	C2

MAP LABEL	NAME ADDRESS	TOTAL COLIFORM	FECAL COLIFORM	NITRATE		GRID LOCATION
25	#28 Zinnert 80 Marianne Drive	0/100	0/100	2.02	mg/l	C2
26	#29 Kuehner 1545 Oakwood Dr	0/100	0/100	4.30	mg/l	C2
27	#30 Frock 1660 Oakwood Drive	0/100	0/100	7.76	mg/l	D2
28	#32 Bollinger 1701 Oakwood Dr	0/100	0/100	3.29	mg/l	D2
29	#33 Fidler 1732 Oakwood Drive	0/100	0/100	4.79	mg/l	D2
30	#34 Carlson 1630 Oakwood Drive	0/100	0/100	12.4	mg/l	C2
31	#35 Albright 30 Valley View Dr	0/100	0/100	7.38	mg/l	D2
32	#36 Wisner 65 Valley View Dr	0/100	0/100	1.70	mg/l	D2
33	#37 Wilson 191 Valley View Dr	0/100	0/100	5.12	mg/l	D2
34	#38 Stair 160 Valley View Drive	0/100	0/100	8.59	mg/l	D2

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C.S. Davidson, Inc
38 N. Duke Street
York, Pa. 17401

09-18-00
DRINKING WATER REPORT

SAMPLE NAME: **WEST MANHIEM TOWNSHIP**
SAMPLE ADDRESS: **ACT 537**
DATE COLLECTED: **09-05-00**
COLLECTED BY **LABS.INC FR**

MAP LABEL	NAME ADDRESS	TOTAL COLIFORM	FECAL COLIFORM	NITRATE		GRID LOCATION
35	#40 Utz 93 Utz Drive	0/100	0/100	**10.6**	mg/l	D4
36	#41 Myers 2190 Oakwood Drive	0/100	0/100	3.56	mg/l	D3
37	#42 Harris 2150 Oakwood Drive	0/100	0/100	3.23	mg/l	D3
38	#43 Schott 2733 Pleasant Hill Rd	0/100	0/100	8.47	mg/l	D4
39	#44 Smith 2161 Oakwood Drive	0/100	0/100	6.47	mg/l	D3
40	#45 Cromer 2214 Oakwood Drive	0/100	0/100	<.1	mg/l	D3
41	#46 Lopez 588 Fuhrman Mill Road	0/100	0/100	7.88	mg/l	D3
42	#47 Snow 623 Fuhrman Mill Road	**22/100**	0/100	**12.4**	mg/l	D3
43	#48 Fowler 624 Fuhrman Mill Rd	0/100	0/100	8.14	mg/l	D3
44	#49 Atkins 2778 Pleasant Hill Rd.	0/100	0/100	**10.8**	mg/l	D4
45	#50 Sneeringer 2756 Pleasant Hill	0/100	0/100	9.23	mg/l	D4
46	#51 Brown 6 Grand Valley Rd.	**6/100**	0/100	2.40	mg/l	A3
47	#52 Bosley 831 Fairview Drive	0/100	0/100	6.46	mg/l	A2
48	#53 Mowery 1717 Beck Mill Road	0/100	0/100	<.1	mg/l	A3
49	#54 Bair 50 Impounding Dam Rd.	0/100	0/100	2.32	mg/l	A3
50	#55 Sterner 68 Impounding Dam	**14/100**	**8/100**	1.02	mg/l	A3
51	#56 Hoffman 98 Impounding Dam	0/100	0/100	7.98	mg/l	A3
52	#57 Brillhart 110 Impounding	0/100	0/100	2.86	mg/l	A3
53	#58 Gobrecht 37 Grand Valley Rd	0/100	0/100	<.1	mg/l	A3
54	#59 Gobrecht 1659 Westminster	**16/100**	0/100	4.32	mg/l	A3
55	#60 Rosenthal 764 Fairview Drive	0/100	0/100	6.31	mg/l	A3
56	#61 Zumbrum 845 Fairview Drive	0/100	0/100	7.17	mg/l	A2
57	#62 Johnson 81[illegible] Fairview Drive	0/100	0/100	8.05	mg/l	A2
58	#63 Shoemaker 1695 Beck Mill	0/100	0/100	<.1	mg/l	A3

MAP LABEL	NAME ADDRESS	TOTAL COLIFORM	FECAL COLIFORM	NITRATE		GRID LOCATION
59	#64 Warner 1679 Beck Mill Rd.	0/100	0/100	<.1	mg/l	A3
60	#65 Sneeringer 7820 Pleasant Hill	25/100	15/100	9.57	mg/l	D4

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C.S. Davidson, Inc.
38 N. Duke Street
York, Pa. 17401

09-18-00
DRINKING WATER REPORT

SAMPLE NAME: **WEST MANHIEM TOWNSHIP**
SAMPLE ADDRESS: **ACT 537**
DATE COLLECTED: **09-07-00**
COLLECTED BY **LABS,INC FR**

MAP LABEL	NAME ADDRESS	TOTAL COLIFORM	FECAL COLIFORM	NITRATE		GRID LOCATION
61	#66 Wentz 167 Impounding Dam	0/100	0/100	<1	mg/l	A3
62	#67 Fuhrman 77 Impounding Dam	0/100	0/100	2.05	mg/l	A3
63	#68 Morningstar 419 Impounding	8/100	0/100	5.97	mg/l	A3
64	#69 Hoffacker 792 Fairview Drive	0/100	0/100	5.20	mg/l	A3
65	#70 Davis 795 Fairview Drive	0/100	0/100	6.09	mg/l	A3

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East Berlin, PA 17316

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Fax (717)-259-0766
PADEP Lab ID No. 01-550

Mr. John A. Klinedinst P.E.
C.S. Davidson, Inc.
38 N. Duke Street
York, Pa. 17401

10-12-00
DRINKING WATER REPORT

SAMPLE NAME: **WEST MANHIEM TOWNSHIP**
SAMPLE ADDRESS: **ACT 537**
DATE COLLECTED: **10-02-00**
COLLECTED BY: **LABS,INC**

MAP LABEL	NAME ADDRESS	TOTAL COLIFORM	FECAL COLIFORM	NITRATE		GRID LOCATION
66	#1 Smith 50 Grand Valley Road	0/100	0/100	3.44	mg/l	A3
67	#2 Weaver 78 Impounding Dam	51/100 BD 75	12/100	2.28	mg/l	A3

LABS, Inc. makes representation only for the parameters tested above. No responsibility will be accepted nor implied for testing parameters not specified.

Sincerely,
Laboratory, Analytical & Biological Services, Inc.

Approved By: FRED RICHSTIEN or WESLEY WOLF

3) 1993 Results – Enviro-Lab, Inc.

ENVIRO-LAB, INC.
Environmental Testing & Field Services
1221 HANOVER RD. • YORK, PA 17404-6299 PHONE (717) 225-5686 FAX (717) 225-6882

90C

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

11-03-1992
WATER ANALYSIS REPORT AE/95C

Sample #: 6068
Sample Marking: TERRY ALWINE....
775 HOBART RD...
HANOVER.....
Date Collected: 10-23-92
Collected By: GROUP.

BACTERIOLOGICAL ANALYSIS:
Total coliform bacteria: 0 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.

Sample MEETS U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
N ATES AS N	7.0	mg/l	10 mg/l

* Based on Environmental Protection Agency regulations for community water supplies - these are only generalizations. Specific conditions may warrant more stringent limitations.
No representation as to the fitness or quality of the water sample taken is made, except for the parameters tested.

Respectfully submitted,
ENVIRO-LAB, INC.
Reviewed and Approved by:

Robert L. Weaver, Director

ENVIRO-LAB, INC.
Environmental Testing & Field Services
1221 HANOVER RD. • YORK, PA 17404-6299 PHONE (717) 225-5686 FAX (717) 225-688

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

10-22-1992
WATER ANALYSIS REPORT

Sample #: 5918
Sample Marking: SCOTT BELT.....
RD1 BOX 1470....
BRODBECKS.....
Date Collected: 10-19-92
Collected By: GROUP.

BACTERIOLOGICAL ANALYSIS:
Total coliform bacteria: 0 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.

Sample MEETS U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	1.1	mg/l	10 mg/l

* Based on Environmental Protection Agency regulations for community water supplies - these are only generalizations. Specific conditions may warrant more stringent limitations.
No representation as to the fitness or quality of the water sample taken is made, except for the parameters tested.

Respectfully submitted,
ENVIRO-LAB, INC.
Reviewed and Approved by:

Robert L. Weaver, Director

ENVIRO-LAB, INC.
Environmental Testing & Field Services
1221 HANOVER RD. • YORK, PA 17404-6299 PHONE (717) 225-5686 FAX (717) 225-6882

108A

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

10-06-1992
WATER ANALYSIS REPORT

NEW HOME

Sample #: 5412
Sample Marking: WILSON BIXLER...
2506 BLACKROCK R
HANOVER.....
Date Collected: 09-29-92
Collected By: GROUP

BACTERIOLOGICAL ANALYSIS:
Total coliform bacteria: 0 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.

Sample MEETS U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
N..RATES AS N	4.5	mg/l	10 mg/l

* Based on Environmental Protection Agency regulations for community water supplies - these are only generalizations. Specific conditions may warrant more stringent limitations.
No representation as to the fitness or quality of the water sample taken is made, except for the parameters tested.

Respectfully submitted,
ENVIRO-LAB, INC.
Reviewed and Approved by:

Robert L. Weaver, Director

ENVIRO-LAB, INC.
Environmental Testing & Field Services
1221 HANOVER RD. • YORK, PA 17404-6299 PHONE (717) 225-5686 FAX (717) 225-688

94B

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

11-11-1992
WATER ANALYSIS REPORT BE/115

Sample #: 6242
Sample Marking:

Date Collected:
Collected By:

CHARLES BOWMAN..
1450 HOBART RD..
HANOVER.....
11-03-92
GROUP.

BACTERIOLOGICAL ANALYSIS:
Total coliform bacteria: 0 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.

Sample MEETS U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	2.2	mg/l	10 mg/l

* Based on Environmental Protection Agency regulations for community water supplies - these are only generalizations. Specific conditions may warrant more stringent limitations.
No representation as to the fitness or quality of the water sample taken is made, except for the parameters tested.

Respectfully submitted,
ENVIRO-LAB, INC.
Reviewed and Approved by:

Robert L. Weaver, Director

ENVIRO-LAB, INC.
Environmental Testing & Field Services
1221 HANOVER RD. • YORK, PA 17404-6299 PHONE (717) 225-5686 FAX (717) 225-6882

82

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

10-06-1992
WATER ANALYSIS REPORT AE 95

Sample #: 5343
Sample Marking:
Date Collected:
Collected By:

DONALD BRADY JR.
624 HOBART RD...
HANOVER/82.....
09-25-92
GROUP

BACTERIOLOGICAL ANALYSIS:
Total coliform bacteria: 60 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 4 colonies per 100 ml.

Sample DOES NOT MEET U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water. ** NOT SAFE FOR DRINKING **.
Coliform bacteria originate from the decomposition of organic matter and/or feces of warm blooded animals. Check well for possible entrance of surface water - check well cap for tight fit.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	11.1	mg/l	10 mg/l

* Based on Environmental Protection Agency regulations for community water supplies - these are only generalizations. Specific conditions may warrant more stringent limitations.
No representation as to the fitness or quality of the water sample taken is made, except for the parameters tested.

Respectfully submitted,
ENVIRO-LAB, INC.
Reviewed and Approved by:

Robert L. Weaver, Director

ENVIRO-LAB, INC.
Environmental Testing & Field Services
1221 HANOVER RD. • YORK, PA 17404-6299 PHONE (717) 225-5686 FAX (717) 225-6882

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

09-23-1992
WATER ANALYSIS REPORT

BD 10

Sample #: 5159
Sample Marking:
Date Collected:
Collected By:

BRYANT BILLY....
809 FAIRVIEW RD.
HANOVER/1A.....
09-21-92
CLIENT

BACTERIOLOGICAL ANALYSIS:

Total coliform bacteria: 0 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.

Sample MEETS U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	9.5	mg/l	10 mg/l

* Based on Environmental Protection Agency regulations for community water supplies - these are only generalizations. Specific conditions may warrant more stringent limitations.
No representation as to the fitness or quality of the water sample taken is made, except for the parameters tested.

Respectfully submitted,
ENVIRO-LAB, INC.
Reviewed and Approved by:

Robert L. Weaver, Director

ENVIRO-LAB, INC.
Environmental Testing & Field Services
1221 HANOVER RD. • YORK, PA 17404-6299 PHONE (717) 225-5686 FAX (717) 225-6882

33

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

09-30-1992
WATER ANALYSIS REPORT AO/148

Sample #: 5197	CALHOUN DAVID...
Sample Marking:	62 ST. BARTHOLOM
	HANOVER/33.....
Date Collected:	09-22-92
Collected By:	CLIENT

BACTERIOLOGICAL ANALYSIS:

Total coliform bacteria: 0 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.

Sample MEETS U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	< 1.0	mg/l	10 mg/l

* Based on Environmental Protection Agency regulations for community water supplies - these are only generalizations. Specific conditions may warrant more stringent limitations.
No representation as to the fitness or quality of the water sample taken is made, except for the parameters tested.

Respectfully submitted,
ENVIRO-LAB, INC.
Reviewed and Approved by:

Robert L. Weaver, Director

ENVIRO-LAB, INC.
Environmental Testing & Field Services
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128

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

10-13-1992
WATER ANALYSIS REPORT

6/1

Sample #: 5471
Sample Marking: HONG SIK CHOI... 505 PUMPING STAT HANOVER.....
Date Collected: 09-30-92
Collected By: GROUP

BACTERIOLOGICAL ANALYSIS:

'otal coliform bacteria: 0 colonies per 100 ml. (MF Method)

'ecal coliform bacteria: 0 colonies per 100 ml.

'ample MEETS U.S. Public Health Service BACTERIOLOGICAL STANDARDS 'or drinking water.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	5.4	mg/l	10 mg/l

Based on Environmental Protection Agency regulations for community water 'upplies - these are only generalizations. Specific conditions may warrant 'ore stringent limitations.
'o representation as to the fitness or quality of the water sample taken is 'ade, except for the parameters tested.

'espectfully submitted,
'NVIRO-LAB, INC.
'eviewed and Approved by:

'obert L. Weaver, Director

ENVIRO-LAB, INC.
Environmental Testing & Field Services
1221 HANOVER RD. • YORK, PA 17404-6299 PHONE (717) 225-5686 FAX (717) 225-6882

116

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

10-06-1992
WATER ANALYSIS REPORT 2/5

Brian Harkay
~~GLICK SAMUEL~~...
49 VALLEYVIEW DR
HANOVER.....

Sample #: 5365
Sample Marking:
Date Collected: 09-28-92
Collected By: CLIENT

BACTERIOLOGICAL ANALYSIS:
Total coliform bacteria: 0 colonies per 100 ml. (MF Method)
Fecal coliform bacteria: 0 colonies per 100 ml.
Fecal strep bacteria: 0 colonies per 100 ml.

Sample MEETS U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	2.4	mg/l	10 mg/l

* Based on Environmental Protection Agency regulations for community water supplies - these are only generalizations. Specific conditions may warrant more stringent limitations.
No representation as to the fitness or quality of the water sample taken is made, except for the parameters tested.

Respectfully submitted,
ENVIRO-LAB, INC.
Reviewed and Approved by:

Robert L. Weaver, Director

ENVIRO-LAB, INC.
Environmental Testing & Field Services
1221 HANOVER RD. • YORK, PA 17404-6299 PHONE (717) 225-5686 FAX (717) 225-6882

119B

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

10-06-1992
WATER ANALYSIS REPORT 8|3

Sample #: 5405
Sample Marking:

Kory L. Leppo
~~ROBERT COVER~~...
2329 BLACKROCK R
HANOVER.....

Date Collected: 09-29-92
Collected By: GROUP

BACTERIOLOGICAL ANALYSIS:
Total coliform bacteria: 8 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.
Fecal strep bacteria: 0 colonies per 100 ml.

Sample DOES NOT MEET U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water. ** NOT SAFE FOR DRINKING **.
-liform bacteria originate from the decomposition of organic matter
-/or feces of warm blooded animals. Check well for possible entrance of
Face water - check well cap for tight fit.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	3.4	mg/l	10 mg/l

Based on Environmental Protection Agency regulations for community water upplies - these are only generalizations. Specific conditions may warrant ore stringent limitations.
o representation as to the fitness or quality of the water sample taken is ade, except for the parameters tested.

espectfully submitted,
NVIRO-LAB, INC.
eviewed and Approved by:

obert L. Weaver, Director

ENVIRO-LAB, INC.
Environmental Testing & Field Services
1221 HANOVER RD. • YORK, PA 17404-6299 PHONE (717) 225-5686 FAX (717) 225-688

112 A

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

10-06-1992
WATER ANALYSIS REPORT 9/106
Charles

Sample #: 5400
Sample Marking: ~~MIKE~~ CROMER.....
2214 OAKWOOD DR.
HANOVER.....
Date Collected: 09-29-92
Collected By: GROUP

BACTERIOLOGICAL ANALYSIS:

Total coliform bacteria: 0 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.

Sample MEETS U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	7.2	mg/l	10 mg/l

* Based on Environmental Protection Agency regulations for community water supplies - these are only generalizations. Specific conditions may warrant more stringent limitations.
No representation as to the fitness or quality of the water sample taken is made, except for the parameters tested.

Respectfully submitted,
ENVIRO-LAB, INC.
Reviewed and Approved by:

Robert L. Weaver, Director

ENVIRO-LAB, INC.
Environmental Testing & Field Services
1221 HANOVER RD. • YORK, PA 17404-6299 PHONE (717) 225-5686 FAX (717) 225-6882

2

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

09-23-1992
WATER ANALYSIS REPORT B01/104

Sample #: 5160
Sample Marking: DANNER TERRY....
1675 ~~1670~~ BECK MILL R
HANOVER.....
Date Collected: 09-21-92
Collected By: CLIENT

BACTERIOLOGICAL ANALYSIS:
:tal coliform bacteria: 4 colonies per 100 ml. (MF Method)

:cal coliform bacteria: 0 colonies per 100 ml.
:cal strep bacteria: 0 colonies per 100 ml.

:mple DOES NOT MEET U.S. Public Health Service BACTERIOLOGICAL STANDARDS
: drinking water. ** NOT SAFE FOR DRINKING **.
'iform bacteria originate from the decomposition of organic matter
d/or feces of warm blooded animals. Check well for possible entrance of
.rface water - check well cap for tight fit.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	2.7	mg/l	10 mg/l

: Based on Environmental Protection Agency regulations for community water
'upplies - these are only generalizations. Specific conditions may warrant
ıore stringent limitations.
'o representation as to the fitness or quality of the water sample taken is
:de, except for the parameters tested.

espectfully submitted,
NVIRO-LAB, INC.
eviewed and Approved by:

obert L. Weaver, Director

ENVIRO-LAB, INC.
Environmental Testing & Field Services
1221 HANOVER RD. • YORK, PA 17404-6299 PHONE (717) 225-5686 FAX (717) 225-6882

126 B

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

10-13-1992
WATER ANALYSIS REPORT 6/31

Sample #: 5580
Sample Marking:

Date Collected:
Collected By:

GEORGE DATESMAN.
1594 OAKWOOD DR.
HANOVER.....
10-02-92
GROUP

BACTERIOLOGICAL ANALYSIS:
Total coliform bacteria: 0 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.

Sample MEETS U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	15.8	mg/l	10 mg/l

* Based on Environmental Protection Agency regulations for community water supplies - these are only generalizations. Specific conditions may warrant more stringent limitations.
No representation as to the fitness or quality of the water sample taken is made, except for the parameters tested.

Respectfully submitted,
ENVIRO-LAB, INC.
Reviewed and Approved by:

Robert L. Weaver, Director

ENVIRO-LAB, INC.
Environmental Testing & Field Services
1221 HANOVER RD. • YORK, PA 17404-6299 PHONE (717) 225-5686 FAX (717) 225-6862

119C

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

11-03-1992
WATER ANALYSIS REPORT 8|12

Sample #: 6181
Sample Marking:

Date Collected:
Collected By:

BRUCE DAYHOFF...
65 MUMMERT AVE..
HANOVER.....
10-30-92
GROUP

BACTERIOLOGICAL ANALYSIS:
Total coliform bacteria: 0 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.

Sample MEETS U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	13.9	mg/l	10 mg/l

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No representation as to the fitness or quality of the water sample taken is made, except for the parameters tested.

Respectfully submitted,
ENVIRO-LAB, INC.
Reviewed and Approved by:

Robert L. Weaver, Director

ENVIRO-LAB, INC.
Environmental Testing & Field Services
1221 HANOVER RD. • YORK, PA 17404-6299 PHONE (717) 225-5686 FAX (717) 225-6882

90A

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

10-13-1992
WATER ANALYSIS REPORT 30|10

Sample #: 5345
Sample Marking:
Date Collected: 09-25-92
Collected By: GROUP

JOE DELOZIER....
1051 FROGTOWN RD
HANOVER/90-A

BACTERIOLOGICAL ANALYSIS:

Total coliform bacteria: 0 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.

Sample MEETS U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	4.1	mg/l	10 mg/l

* Based on Environmental Protection Agency regulations for community water supplies - these are only generalizations. Specific conditions may warrant more stringent limitations.
No representation as to the fitness or quality of the water sample taken is made, except for the parameters tested.

Respectfully submitted,
ENVIRO-LAB, INC.
Reviewed and Approved by:

Robert L. Weaver, Director

ENVIRO-LAB, INC.
Environmental Testing & Field Services
1221 HANOVER RD. • YORK, PA 17404-6299 PHONE (717) 225-5686 FAX (717) 225-68

93?

93

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

10-13-1992
WATER ANALYSIS REPORT

Sample #: 5582
Sample Marking: ~~DAVID FAZIO~~..... RD1 BRODBECKS...

Date Collected: 10-02-92
Collected By: GROUP

BACTERIOLOGICAL ANALYSIS:
Total coliform bacteria: 0 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.

Sample MEETS U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	3.6	mg/l	10 mg/l

* Based on Environmental Protection Agency regulations for community water supplies - these are only generalizations. Specific conditions may warrant more stringent limitations.
No representation as to the fitness or quality of the water sample taken is made, except for the parameters tested.

Respectfully submitted,
ENVIRO-LAB, INC.
Reviewed and Approved by:

Robert L. Weaver, Director

ENVIRO-LAB, INC.
Environmental Testing & Field Services
1221 HANOVER RD. • YORK, PA 17404-6299 PHONE (717) 225-5686 FAX (717) 225-6882

3A

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

10-13-1992
WATER ANALYSIS REPORT BD|68

Sample #: 5754
Sample Marking: ~~TONY FORBES~~....Robert C. Dillon, Jr.
33 IMPOUNDING DA
HANOVER.....
Date Collected: 10-09-92
Collected By: GROUP

BACTERIOLOGICAL ANALYSIS:
Total coliform bacteria: 6 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.

Sample DOES NOT MEET U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water. ** NOT SAFE FOR DRINKING **.
Coliform bacteria originate from the decomposition of organic matter and/or feces of warm blooded animals. Check well for possible entrance of surface water - check well cap for tight fit.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	< 1.0	mg/l	10 mg/l

* Based on Environmental Protection Agency regulations for community water supplies - these are only generalizations. Specific conditions may warrant more stringent limitations.
No representation as to the fitness or quality of the water sample taken is made, except for the parameters tested.

Respectfully submitted,
ENVIRO-LAB, INC.
Reviewed and Approved by:

Robert L. Weaver, Director

ENVIRO-LAB, INC.
Environmental Testing & Field Services
1221 HANOVER RD. • YORK, PA 17404-6299 PHONE (717) 225-5686 FAX (717) 225-6

56 A

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

10-20-1992
WATER ANALYSIS REPORT AD 51

Sample #: 5874
Sample Marking: DARRELL FROCK...
210 ST BARTHOLOM
HANOVER.....
Date Collected: 10-15-92
Collected By: CLIENT

BACTERIOLOGICAL ANALYSIS:
Total coliform bacteria: 60 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.

Sample DOES NOT MEET U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water. ** NOT SAFE FOR DRINKING **.
Coliform bacteria originate from the decomposition of organic matter d/or feces of warm blooded animals. Check well for possible entrance of face water - check well cap for tight fit.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	< 1.0	mg/l	10 mg/l

* Based on Environmental Protection Agency regulations for community water supplies - these are only generalizations. Specific conditions may warrant more stringent limitations.
No representation as to the fitness or quality of the water sample taken is made, except for the parameters tested.

Respectfully submitted,
ENVIRO-LAB, INC.
Reviewed and Approved by:

Robert L. Weaver, Director

ENVIRO-LAB, INC.
Environmental Testing & Field Services
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36

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

11-03-1992
WATER ANALYSIS REPORT AE/74

Sample #: 6067
Sample Marking:
Date Collected:
Collected By:

MIKE FUHRMAN....
120 DEER RD.....
HANOVER.....
10-23-92
GROUP.

BACTERIOLOGICAL ANALYSIS:

Total coliform bacteria: 0 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.

Sample MEETS U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	8.4	mg/l	10 mg/l

* Based on Environmental Protection Agency regulations for community water supplies - these are only generalizations. Specific conditions may warrant more stringent limitations.
No representation as to the fitness or quality of the water sample taken is made, except for the parameters tested.

Respectfully submitted,
ENVIRO-LAB, INC.
Reviewed and Approved by:

Robert L. Weaver, Director

ENVIRO-LAB, INC.

Environmental Testing & Field Services

86A

1221 HANOVER RD. • YORK, PA 17404-6299 PHONE (717) 225-5686 FAX (717) 225-68[illegible]

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

10-06-1992
WATER ANALYSIS REPORT AC/296

Sample #: 5237
Sample Marking:

GARLAND HAZEN...
2853 PLEASANT HI
HANOVER/86A.....

Date Collected: 09-23-92
Collected By: CLIENT

BACTERIOLOGICAL ANALYSIS:

Total coliform bacteria: 0 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.

Sample MEETS U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	10.4	mg/l	10 mg/l

* Based on Environmental Protection Agency regulations for community water supplies - these are only generalizations. Specific conditions may warrant more stringent limitations.
No representation as to the fitness or quality of the water sample taken is made, except for the parameters tested.

Respectfully submitted,
ENVIRO-LAB, INC.
Reviewed and Approved by:

Robert L. Weaver, Director

ENVIRO-LAB, INC.
Environmental Testing & Field Services
1221 HANOVER RD. • YORK, PA 17404-6299 PHONE (717) 225-5686 FAX (717) 225-6882

75A

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

11-03-1992
WATER ANALYSIS REPORT AE193

Sample #: 6066
Sample Marking:
Date Collected: 10-23-92
Collected By: GROUP.

HARRY GIBSON....
3784 BALTIMORE P
HANOVER.....

BACTERIOLOGICAL ANALYSIS:

Total coliform bacteria: 0 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.

Sample MEETS U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	6.3	mg/l	10 mg/l

* Based on Environmental Protection Agency regulations for community water supplies - these are only generalizations. Specific conditions may warrant more stringent limitations.
No representation as to the fitness or quality of the water sample taken is made, except for the parameters tested.

Respectfully submitted,
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Reviewed and Approved by:

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46A

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

10-06-1992
WATER ANALYSIS REPORT AC/1017

Sample #: 5279	GILBERT EARL....
Sample Marking:	505 TRACEY RD...
	HANOVER/46A.....
Date Collected:	09-24-92
Collected By:	CLIENT

BACTERIOLOGICAL ANALYSIS:

Total coliform bacteria: 0 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.

Sample MEETS U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	< 1.0	mg/l	10 mg/l

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91

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

10-07-1992
WATER ANALYSIS REPORT BE/108

Sample #: 5606
Sample Marking:
Date Collected:
Collected By:

GILBERT SAMUEL..
912 HOBART RD...
HANOVER.....
10-05-92
CLIENT

BACTERIOLOGICAL ANALYSIS:
Total coliform bacteria: 6 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.

Sample DOES NOT MEET U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water. ** NOT SAFE FOR DRINKING **.
Coliform bacteria originate from the decomposition of organic matter and/or feces of warm blooded animals. Check well for possible entrance of surface water - check well cap for tight fit.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	3.2	mg/l	10 mg/l

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4A

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

10-22-1992
WATER ANALYSIS REPORT 10/22

Sample #: 5932
Sample Marking:
Date Collected:
Collected By:

JERRY GOBRECHT..
1753 BECK MILL R
HANOVER.....
10-20-92
GROUP.

BACTERIOLOGICAL ANALYSIS:

Total coliform bacteria: 2 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.

Sample DOES NOT MEET U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water. ** NOT SAFE FOR DRINKING **.
Coliform bacteria originate from the decomposition of organic matter and/or feces of warm blooded animals. Check well for possible entrance of surface water - check well cap for tight fit.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	< 1.0	mg/l	10 mg/l

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126 D

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

10-06-1992
WATER ANALYSIS REPORT 6/37

Sample #: 5370
Sample Marking:
Date Collected: 09-28-92
Collected By: CLIENT

GRIMES JOHN.....
1675 OAKWOOD DR.
HANOVER.....

BACTERIOLOGICAL ANALYSIS:

Total coliform bacteria: >80 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.

Sample DOES NOT MEET U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water. ** NOT SAFE FOR DRINKING **.
Coliform bacteria originate from the decomposition of organic matter and/or feces of warm blooded animals. Check well for possible entrance of surface water - check well cap for tight fit.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	4.6	mg/l	10 mg/l

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Respectfully submitted,
ENVIRO-LAB, INC.
Reviewed and Approved by:

Robert L. Weaver, Director

ENVIRO-LAB, INC.
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3B

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

11-03-1992
WATER ANALYSIS REPORT

Sample #: 6179	HANOVER BOROUGH
Sample Marking:	GRAND VALLEY RD. HANOVER.....
Date Collected:	10-30-92
Collected By:	GROUP

BACTERIOLOGICAL ANALYSIS:
Total coliform bacteria: 0 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.

Sample MEETS U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	2.7	mg/l	10 mg/l

* Based on Environmental Protection Agency regulations for community water supplies - these are only generalizations. Specific conditions may warrant more stringent limitations.
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Respectfully submitted,
ENVIRO-LAB, INC.
Reviewed and Approved by:

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133

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

11-03-1992
WATER ANALYSIS REPORT B0/51

Sample #: 5974
Sample Marking:

Date Collected:
Collected By:

FRANK HARNER....
170 KENNEDY DR..
HANOVER.....
10-21-92
GROUP.

BACTERIOLOGICAL ANALYSIS:
Total coliform bacteria: 0 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.

Sample MEETS U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	11.7	mg/l	10 mg/l

* Based on Environmental Protection Agency regulations for community water supplies - these are only generalizations. Specific conditions may warrant more stringent limitations.
No representation as to the fitness or quality of the water sample taken is made, except for the parameters tested.

Respectfully submitted,
ENVIRO-LAB, INC.
Reviewed and Approved by:

Robert L. Weaver, Director

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46B

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

10-07-1992
WATER ANALYSIS REPORT

Sample #: 5470
Sample Marking:
Date Collected:
Collected By:

JAMES HEMPFING..
253 GLENVILLE RD
HANOVER.....
09-30-92
GROUP

BACTERIOLOGICAL ANALYSIS:
Total coliform bacteria: 0 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.
Fecal strep bacteria: 0 colonies per 100 ml.

Sample MEETS U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	< 1.0	mg/l	10 mg/l

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125E

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

11-03-1992
WATER ANALYSIS REPORT

Sample #: 5919
Sample Marking: STEPHEN HLADIO..
430 VALLEYVIEW R
HANOVER.....
Date Collected: 10-19-92
Collected By: GROUP.

BACTERIOLOGICAL ANALYSIS:
Total coliform bacteria: 0 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.

Sample MEETS U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	5.4	mg/l	10 mg/l

* Based on Environmental Protection Agency regulations for community water supplies - these are only generalizations. Specific conditions may warrant more stringent limitations.
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Respectfully submitted,
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Reviewed and Approved by:

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12A

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

09-23-1992
WATER ANALYSIS REPORT BD/148A

Sample #: 5163
Sample Marking:

Date Collected:
Collected By:

HOLM HARRY.....
165 LEPPO MILL R
HANOVER/12.....
09-21-92
CLIENT

BACTERIOLOGICAL ANALYSIS:
Total coliform bacteria: 0 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.

Sample MEETS U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	5.4	mg/l	10 mg/l

* Based on Environmental Protection Agency regulations for community water supplies - these are only generalizations. Specific conditions may warrant more stringent limitations.
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Respectfully submitted,
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41

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

10-13-1992
WATER ANALYSIS REPORT AC/110

Sample #: 5550
Sample Marking:
Date Collected:
Collected By:

GARY JEWITT.....
671 TRACEY RD.,,
HANOVER.....
10-01-92
GROUP

BACTERIOLOGICAL ANALYSIS:

Total coliform bacteria: 0 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.
Fecal strep bacteria: 0 colonies per 100 ml.

Sample MEETS U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	5.2	mg/l	10 mg/l

* Based on Environmental Protection Agency regulations for community water supplies - these are only generalizations. Specific conditions may warrant more stringent limitations.
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Respectfully submitted,
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126 A

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

10-13-1992
WATER ANALYSIS REPORT 2/64

Sample #: 5709
Sample Marking:
Date Collected:
Collected By:

JOHN KINNEMAN...
1772 OAKWOOD DR.
HANOVER.....
10-08-92
GROUP

BACTERIOLOGICAL ANALYSIS:
Total coliform bacteria: 0 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.

Sample MEETS U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	< 1.0	mg/l	10 mg/l

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Respectfully submitted,
ENVIRO-LAB, INC.
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131

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

11-03-1992
WATER ANALYSIS REPORT

Sample #: 5971
Sample Marking:

LARRY KLINE.....
476 DUBS CHURCH
HANOVER.....

Date Collected: 10-21-92
Collected By: GROUP.

BACTERIOLOGICAL ANALYSIS:

Total coliform bacteria: 0 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.

Sample MEETS U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	6.5	mg/l	10 mg/l

* Based on Environmental Protection Agency regulations for community water supplies - these are only generalizations. Specific conditions may warrant more stringent limitations.
No representation as to the fitness or quality of the water sample taken is made, except for the parameters tested.

Respectfully submitted,
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112 B

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

10-06-1992
WATER ANALYSIS REPORT 9/103

Sample #: 5364
Sample Marking:

Date Collected: 09-28-92
Collected By: CLIENT

KOSLOWSKY JOHN..
2176 OAKWOOD DR.
HANOVER.....

BACTERIOLOGICAL ANALYSIS:
Total coliform bacteria: 0 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.
Fecal strep bacteria: 0 colonies per 100 ml.

Sample MEETS U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	6.5	mg/l	10 mg/l

* Based on Environmental Protection Agency regulations for community water supplies - these are only generalizations. Specific conditions may warrant more stringent limitations.
No representation as to the fitness or quality of the water sample taken is made, except for the parameters tested.

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125B

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

10-06-1992
WATER ANALYSIS REPORT 2/17

Sample #: 5367
Sample Marking:
Date Collected:
Collected By:

LARRICK GENE....
221 VALLEYVIEW D
HANOVER.....
09-28-92
CLIENT

BACTERIOLOGICAL ANALYSIS:
Total coliform bacteria: 28 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.
Fecal strep bacteria: 0 colonies per 100 ml.

Sample DOES NOT MEET U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water. ** NOT SAFE FOR DRINKING **.
liform bacteria originate from the decomposition of organic matter /or feces of warm blooded animals. Check well for possible entrance of ce water - check well cap for tight fit.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	5.4	mg/l	10 mg/l

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No representation as to the fitness or quality of the water sample taken is made, except for the parameters tested.

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40

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

10-06-1992
WATER ANALYSIS REPORT AC/111

Sample #: 5399
Sample Marking:
Date Collected:
Collected By:

ROY LAWYER.....
100 GLENVILLE RD
HANOVER.....
09-29-92
GROUP

BACTERIOLOGICAL ANALYSIS:

Total coliform bacteria: 18 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.

Sample DOES NOT MEET U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water. ** NOT SAFE FOR DRINKING **.
Coliform bacteria originate from the decomposition of organic matter and/or feces of warm blooded animals. Check well for possible entrance of surface water - check well cap for tight fit.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	6.5	mg/l	10 mg/l

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Respectfully submitted,
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78

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

10-06-1992
WATER ANALYSIS REPORT AF/86

Sample #: 5277
Sample Marking:
Date Collected: 09-24-92
Collected By: CLIENT

MASON RUTH.....
RD#1 MT VENTUS ROAD, BOX 1531
~~BRODBECKS/78~~....GLENVILLE, PA 17329

BACTERIOLOGICAL ANALYSIS:
Total coliform bacteria: 0 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.

Sample MEETS U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
...TRATES AS N	6.1	mg/l	10 mg/l

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Respectfully submitted,
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23

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

10-07-1992
WATER ANALYSIS REPORT

Sample #: 5607	MICHAEL BRAD....
Sample Marking:	1159 IMPOUNDING
	HANOVER.....
Date Collected:	10-05-92
Collected By:	CLIENT

BACTERIOLOGICAL ANALYSIS:
Total coliform bacteria: 0 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.
Fecal strep bacteria: 0 colonies per 100 ml.

Sample MEETS U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	4.1	mg/l	10 mg/l

* Based on Environmental Protection Agency regulations for community water supplies - these are only generalizations. Specific conditions may warrant more stringent limitations.
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Respectfully submitted,
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1

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

80/57A

10-13-1992
WATER ANALYSIS REPORT

Sample #: 5548
Sample Marking: George ~~DONALD~~ MORNINGSTAR 420 ~~321~~ IMPOUNDING D HANOVER.....
Date Collected: 10-01-92
Collected By: GROUP

BACTERIOLOGICAL ANALYSIS:
Total coliform bacteria: 0 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.

Sample MEETS U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	< 1.0	mg/l	10 mg/l

* Based on Environmental Protection Agency regulations for community water supplies - these are only generalizations. Specific conditions may warrant more stringent limitations.
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67

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

10-06-1992
WATER ANALYSIS REPORT AP/57

Sample #: 5276
Sample Marking:
Date Collected: 09-24-92
Collected By: CLIENT

MUMMERT ALVIN...
945 BANKARD RD..
HANOVER/67.....

BACTERIOLOGICAL ANALYSIS:
Total coliform bacteria: 10 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.

Sample DOES NOT MEET U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water. ** NOT SAFE FOR DRINKING **.
Coliform bacteria originate from the decomposition of organic matter and/or feces of warm blooded animals. Check well for possible entrance of surface water - check well cap for tight fit.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	< 1.0	mg/l	10 mg/l

* Based on Environmental Protection Agency regulations for community water supplies - these are only generalizations. Specific conditions may warrant more stringent limitations.
No representation as to the fitness or quality of the water sample taken is made, except for the parameters tested.

Respectfully submitted,
ENVIRO-LAB, INC.
Reviewed and Approved by:

Robert L. Weaver, Director

ENVIRO-LAB, INC.
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20

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

09-23-1992
WATER ANALYSIS REPORT A01/17

Sample #: 5164	MUMMERT RAY.....
Sample Marking:	246 LEPPO MILL R
	HANOVER/20.....
Date Collected:	09-21-92
Collected By:	CLIENT

BACTERIOLOGICAL ANALYSIS:

Total coliform bacteria: 0 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.

Sample MEETS U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	7.0	mg/l	10 mg/l

* Based on Environmental Protection Agency regulations for community water supplies - these are only generalizations. Specific conditions may warrant more stringent limitations.
No representation as to the fitness or quality of the water sample taken is made, except for the parameters tested.

Respectfully submitted,
ENVIRO-LAB, INC.
Reviewed and Approved by:

Robert L. Weaver, Director

ENVIRO-LAB, INC.
Environmental Testing & Field Services
1221 HANOVER RD. • YORK, PA 17404-6299 PHONE (717) 225-5686 FAX (717) 225-6882

75B

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

10-20-1992
WATER ANALYSIS REPORT

Sample #: 5826
Sample Marking: ED ORENDORF.....
3754 BALTIMORE P
HANOVER.....
Date Collected: 10-14-92
Collected By: CLIENT

BACTERIOLOGICAL ANALYSIS:
Total coliform bacteria: 0 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.

Sample MEETS U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	6.3	mg/l	10 mg/l

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Respectfully submitted,
ENVIRO-LAB, INC.
Reviewed and Approved by:

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4B

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

10-22-1992
WATER ANALYSIS REPORT 80/64

Sample #: 5922
Sample Marking:
Date Collected:
Collected By:

MELVIN PLUNKERT.
99 IMPOUNDING DA
HANOVER.....
10-19-92
GROUP.

BACTERIOLOGICAL ANALYSIS:

Total coliform bacteria: 0 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.

Sample MEETS U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	4.7	mg/l	10 mg/l

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No representation as to the fitness or quality of the water sample taken is made, except for the parameters tested.

Respectfully submitted,
ENVIRO-LAB, INC.
Reviewed and Approved by:

Robert L. Weaver, Director

ENVIRO-LAB, INC.
Environmental Testing & Field Services
1221 HANOVER RD. • YORK, PA 17404-6299 PHONE (717) 225-5686 FAX (717) 225-6882

126C

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

11-03-1992
WATER ANALYSIS REPORT BE/50

Sample #: 6069
Sample Marking:
Date Collected:
Collected By:

JOHN QUASHNOC...
1713 OAKWOOD DR.
HANOVER.....
10-23-92
GROUP.

BACTERIOLOGICAL ANALYSIS:
Total coliform bacteria: 0 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.

Sample MEETS U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	4.7	mg/l	10 mg/l

* Based on Environmental Protection Agency regulations for community water supplies - these are only generalizations. Specific conditions may warrant more stringent limitations.
No representation as to the fitness or quality of the water sample taken is made, except for the parameters tested.

Respectfully submitted,
ENVIRO-LAB, INC.
Reviewed and Approved by:

Robert L. Weaver, Director

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Environmental Testing & Field Services
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127

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

10-06-1992
WATER ANALYSIS REPORT

BE/47

Sample #: 5371
Sample Marking:
Date Collected:
Collected By:

REBERT RUTH.....
423 PUMPING STAT
HANOVER.....
09-28-92
CLIENT

BACTERIOLOGICAL ANALYSIS:
Fecal coliform bacteria: 0 colonies per 100 ml.
Fecal strep bacteria: 0 colonies per 100 ml.

Sample MEETS U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	9.3	mg/l	10 mg/l

* Based on Environmental Protection Agency regulations for community water supplies - these are only generalizations. Specific conditions may warrant more stringent limitations.
No representation as to the fitness or quality of the water sample taken is made, except for the parameters tested.

Respectfully submitted,
ENVIRO-LAB, INC.
Reviewed and Approved by:

Robert L. Weaver, Director

ENVIRO-LAB, INC.
Environmental Testing & Field Services
1221 HANOVER RD. • YORK, PA 17404-6299 PHONE (717) 225-5686 FAX (717) 225-68

129 A-

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

10-06-1992
WATER ANALYSIS REPORT CE/155C

Sample #: 5372
Sample Marking: RHODES RUSSELL.. ~~24 GRANDVIEW RD.~~ 583 Pumping Station Roa
HANOVER.....
Date Collected: 09-28-92
Collected By: CLIENT

BACTERIOLOGICAL ANALYSIS:
Total coliform bacteria: 6 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.

Sample DOES NOT MEET U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water. ** NOT SAFE FOR DRINKING **.
Coliform bacteria originate from the decomposition of organic matter and/or feces of warm blooded animals. Check well for possible entrance of surface water - check well cap for tight fit.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	1.8	mg/l	10 mg/l

* Based on Environmental Protection Agency regulations for community water supplies - these are only generalizations. Specific conditions may warrant more stringent limitations.
No representation as to the fitness or quality of the water sample taken is made, except for the parameters tested.

Respectfully submitted,
ENVIRO-LAB, INC.
Reviewed and Approved by:

Robert L. Weaver, Director

ENVIRO-LAB, INC.
Environmental Testing & Field Services
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96

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

10-06-1992
WATER ANALYSIS REPORT 41155

Sample #: 5347	FRANK RODGERS...
Sample Marking:	540 MUSSELMAN RD
	HANOVER/96.....
Date Collected:	09-25-92
Collected By:	GROUP

BACTERIOLOGICAL ANALYSIS:

Total coliform bacteria: 0 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.

Sample MEETS U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	1.1	mg/l	10 mg/l

* Based on Environmental Protection Agency regulations for community water supplies - these are only generalizations. Specific conditions may warrant more stringent limitations.
No representation as to the fitness or quality of the water sample taken is made, except for the parameters tested.

Respectfully submitted,
ENVIRO-LAB, INC.
Reviewed and Approved by:

Robert L. Weaver, Director

ENVIRO-LAB, INC.
Environmental Testing & Field Services
1221 HANOVER RD. • YORK, PA 17404-6299 PHONE (717) 225-5686 FAX (717) 225-6882

12B

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

11-03-1992
WATER ANALYSIS REPORT A01/36

Sample #: 6180
Sample Marking:
Date Collected:
Collected By:

NED RUTLEDGE....
805 IMPOUNDING D
HANOVER.....
10-30-92
GROUP

BACTERIOLOGICAL ANALYSIS:
Total coliform bacteria: 12 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 8 colonies per 100 ml.

Sample DOES NOT MEET U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water. ** NOT SAFE FOR DRINKING **.
Coliform bacteria originate from the decomposition of organic matter
id/or feces of warm blooded animals. Check well for possible entrance of
face water - check well cap for tight fit.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	8.1	mg/l	10 mg/l

* Based on Environmental Protection Agency regulations for community water supplies - these are only generalizations. Specific conditions may warrant more stringent limitations.
No representation as to the fitness or quality of the water sample taken is made, except for the parameters tested.

Respectfully submitted,
ENVIRO-LAB, INC.
Reviewed and Approved by:

Robert L. Weaver, Director

ENVIRO-LAB, INC.
Environmental Testing & Field Services
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58A

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

10-07-1992
WATER ANALYSIS REPORT AD/21

Sample #: 5546
Sample Marking: ST. BATHOLOMEW @ Lutheran .1204 Grand Valley Road HANOVER...17331-9726
Date Collected: 10-01-92
Collected By: GROUP

BACTERIOLOGICAL ANALYSIS:
Total coliform bacteria: 18 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.

Sample DOES NOT MEET U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water. ** NOT SAFE FOR DRINKING **.
Coliform bacteria originate from the decomposition of organic matter and/or feces of warm blooded animals. Check well for possible entrance of surface water - check well cap for tight fit.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	4.5	mg/l	10 mg/l

* Based on Environmental Protection Agency regulations for community water supplies - these are only generalizations. Specific conditions may warrant more stringent limitations.
No representation as to the fitness or quality of the water sample taken is made, except for the parameters tested.

Respectfully submitted,
ENVIRO-LAB, INC.
Reviewed and Approved by:

Robert L. Weaver, Director

ENVIRO-LAB, INC.

Environmental Testing & Field Services

49A

1221 HANOVER RD. • YORK, PA 17404-6299 PHONE (717) 225-5686 FAX (717) 225-688

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

10-06-1992
WATER ANALYSIS REPORT AE/79

Sample #: 5235
Sample Marking: ST. DAVIDS UNITED CHURCH OF CHRIST / CHURCH..... / HANOVER/49.....
Date Collected: 09-23-92
Collected By: CLIENT

142 Hobart Road
Hanover, PA 17331-8102

BACTERIOLOGICAL ANALYSIS:

Total coliform bacteria: 0 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.
Fecal strep bacteria: 0 colonies per 100 ml.

Sample MEETS U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	< 1.0	mg/l	10 mg/l

* Based on Environmental Protection Agency regulations for community water supplies - these are only generalizations. Specific conditions may warrant more stringent limitations.
No representation as to the fitness or quality of the water sample taken is made, except for the parameters tested.

Respectfully submitted,
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Reviewed and Approved by:

Robert L. Weaver, Director

ENVIRO-LAB, INC.
Environmental Testing & Field Services
1221 HANOVER RD. • YORK, PA 17404-6299 PHONE (717) 225-5686 FAX (717) 225-6882

57A

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

09-30-1992
WATER ANALYSIS REPORT AO/27

Sample #: 5194
Sample Marking:
Date Collected:
Collected By:

SALTZGIVER DANIEL
397 ST BARTHOLOM
HANOVER/57A.....
09-22-92
CLIENT

BACTERIOLOGICAL ANALYSIS:
Total coliform bacteria: 0 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.
Fecal strep bacteria: 0 colonies per 100 ml.

Sample MEETS U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
TRATES AS N	7.9	mg/l	10 mg/l

* Based on Environmental Protection Agency regulations for community water supplies - these are only generalizations. Specific conditions may warrant more stringent limitations.
No representation as to the fitness or quality of the water sample taken is made, except for the parameters tested.

Respectfully submitted,
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Reviewed and Approved by:

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81

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

10-06-1992
WATER ANALYSIS REPORT AE/105

Sample #: 5344
Sample Marking:
Date Collected:
Collected By:

PILLIP SMITH....
629 HOBART DR...
HANOVER/81.....
09-25-92
GROUP

BACTERIOLOGICAL ANALYSIS:
Total coliform bacteria: 0 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.

Sample MEETS U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	3.8	mg/l	10 mg/l

* Based on Environmental Protection Agency regulations for community water supplies - these are only generalizations. Specific conditions may warrant more stringent limitations.
No representation as to the fitness or quality of the water sample taken is made, except for the parameters tested.

Respectfully submitted,
ENVIRO-LAB, INC.
Reviewed and Approved by:

Robert L. Weaver, Director

ENVIRO-LAB, INC.
Environmental Testing & Field Services
1221 HANOVER RD. • YORK, PA 17404-6299 PHONE (717) 225-5686 FAX (717) 225-6882

6

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

09-23-1992
WATER ANALYSIS REPORT BD/62

Sample #: 5161
Sample Marking:
Date Collected:
Collected By:

STERNER WILLIAM.
1918 BECK MILL R
HANOVER/6.....
09-21-92
CLIENT

BACTERIOLOGICAL ANALYSIS:
Total coliform bacteria: 0 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.
Fecal strep bacteria: 0 colonies per 100 ml.

Sample MEETS U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	1.8	mg/l	10 mg/l

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Respectfully submitted,
ENVIRO-LAB, INC.
Reviewed and Approved by:

Robert L. Weaver, Director

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105

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

10-06-1992
WATER ANALYSIS REPORT BC/14

Sample #: 5410	CHARLES TAYLOR..
Sample Marking:	2651 BLACKROCK R
	HANOVER.....
Date Collected:	09-29-92
Collected By:	GROUP

BACTERIOLOGICAL ANALYSIS:

Total coliform bacteria: 14 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.
Fecal strep bacteria: 0 colonies per 100 ml.

Sample DOES NOT MEET U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water. ** NOT SAFE FOR DRINKING **.
liform bacteria originate from the decomposition of organic matter
/or feces of warm blooded animals. Check well for possible entrance of
face water - check well cap for tight fit.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	5.4	mg/l	10 mg/l

* Based on Environmental Protection Agency regulations for community water supplies - these are only generalizations. Specific conditions may warrant more stringent limitations.
No representation as to the fitness or quality of the water sample taken is made, except for the parameters tested.

Respectfully submitted,
ENVIRO-LAB, INC.
Reviewed and Approved by:

Robert L. Weaver, Director

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27

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

10-20-1992
WATER ANALYSIS REPORT

Sample #: 5875
Sample Marking:

Date Collected:
Collected By:

DR.CHARLES THOMAS
300 BALTIMORE ST
HANOVER.....
10-15-92
CLIENT

BACTERIOLOGICAL ANALYSIS:

Total coliform bacteria: 0 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.

Sample MEETS U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	5.0	mg/l	10 mg/l

* Based on Environmental Protection Agency regulations for community water supplies - these are only generalizations. Specific conditions may warrant more stringent limitations.
No representation as to the fitness or quality of the water sample taken is made, except for the parameters tested.

Respectfully submitted,
ENVIRO-LAB, INC.
Reviewed and Approved by:

Robert L. Weaver, Director

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58B

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

10-13-1992
WATER ANALYSIS REPORT AP/20

St. Bartholomews Union Church Lutheran Congregation

Sample #: 5547
Sample Marking: ~~WAYNE TRUMP~~ 1204 GRAND VALLEY ROAD HANOVER.....
Date Collected: 10-01-92
Collected By: GROUP

BACTERIOLOGICAL ANALYSIS:
Total coliform bacteria: 26 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.
Fecal strep bacteria: 0 colonies per 100 ml.

Sample DOES NOT MEET U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water. ** NOT SAFE FOR DRINKING **.
'iform bacteria originate from the decomposition of organic matter l/or feces of warm blooded animals. Check well for possible entrance of ..rface water - check well cap for tight fit.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	1.8	mg/l	10 mg/l

* Based on Environmental Protection Agency regulations for community water supplies - these are only generalizations. Specific conditions may warrant more stringent limitations.
No representation as to the fitness or quality of the water sample taken is made, except for the parameters tested.

Respectfully submitted,
ENVIRO-LAB, INC.
Reviewed and Approved by:

Robert L. Weaver, Director

ENVIRO-LAB, INC.
Environmental Testing & Field Services
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108B

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

11-11-1992
WATER ANALYSIS REPORT

BE/16A

Sample #: 6241
Sample Marking:

Date Collected:
Collected By:

PETER VALENCIA..
2599 BLACKROCK R
HANOVER.....
11-03-92
GROUP.

BACTERIOLOGICAL ANALYSIS:
Total coliform bacteria: 20 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.
Fecal strep bacteria: 0 colonies per 100 ml.

Sample DOES NOT MEET U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water. ** NOT SAFE FOR DRINKING **.
Coliform bacteria originate from the decomposition of organic matter and/or feces of warm blooded animals. Check well for possible entrance of surface water - check well cap for tight fit.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	4.7	mg/l	10 mg/l

* Based on Environmental Protection Agency regulations for community water supplies - these are only generalizations. Specific conditions may warrant more stringent limitations.
No representation as to the fitness or quality of the water sample taken is made, except for the parameters tested.

Respectfully submitted,
ENVIRO-LAB, INC.
Reviewed and Approved by:

Robert L. Weaver, Director

ENVIRO-LAB, INC.
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5

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

10-22-1992
WATER ANALYSIS REPORT CD/109

Sample #: 5916
Sample Marking:

Date Collected: 10-19-92
Collected By: GROUP.

CARL VIZZI.....
395 HICKORY LN..
HANOVER.....

c/o
P.O. Box 87?

BACTERIOLOGICAL ANALYSIS:
Total coliform bacteria: 0 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.

Sample MEETS U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	5.9	mg/l	10 mg/l

* Based on Environmental Protection Agency regulations for community water supplies - these are only generalizations. Specific conditions may warrant more stringent limitations.
No representation as to the fitness or quality of the water sample taken is made, except for the parameters tested.

Respectfully submitted,
ENVIRO-LAB, INC.
Reviewed and Approved by:

Robert L. Weaver, Director

ENVIRO-LAB, INC.
Environmental Testing & Field Services
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57B

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

09-30-1992
WATER ANALYSIS REPORT A01/27

Sample #: 5195	WAGAMAN JEFFREY.
Sample Marking:	360 ST BATHOLOME
	HANOVER/57B.....
Date Collected:	09-22-92
Collected By:	CLIENT

BACTERIOLOGICAL ANALYSIS:
Total coliform bacteria: 0 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.
Fecal strep bacteria: 0 colonies per 100 ml.

Sample MEETS U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	3.6	mg/l	10 mg/l

* Based on Environmental Protection Agency regulations for community water supplies - these are only generalizations. Specific conditions may warrant more stringent limitations.
No representation as to the fitness or quality of the water sample taken is made, except for the parameters tested.

Respectfully submitted,
ENVIRO-LAB, INC.
Reviewed and Approved by:

Robert L. Weaver, Director

ENVIRO-LAB, INC.
Environmental Testing & Field Services
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94A

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

11-11-1992
WATER ANALYSIS REPORT BE/1108

Sample #: 6244
Sample Marking:

Date Collected:
Collected By:

DOUGLAS WAGNER..
932 HOBART RD...
HANOVER.....
11-03-92
GROUP.

BACTERIOLOGICAL ANALYSIS:

Total coliform bacteria: 40 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.

Sample DOES NOT MEET U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water. ** NOT SAFE FOR DRINKING **.
Coliform bacteria originate from the decomposition of organic matter and/or feces of warm blooded animals. Check well for possible entrance of surface water - check well cap for tight fit.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	1.5	mg/l	10 mg/l

* Based on Environmental Protection Agency regulations for community water supplies - these are only generalizations. Specific conditions may warrant more stringent limitations.
No representation as to the fitness or quality of the water sample taken is made, except for the parameters tested.

Respectfully submitted,
ENVIRO-LAB, INC.
Reviewed and Approved by:

Robert L. Weaver, Director

ENVIRO-LAB, INC.
Environmental Testing & Field Services
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102

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

10-06-1992
WATER ANALYSIS REPORT BC/52

Sample #: 5350
Sample Marking:

Date Collected:
Collected By:

CLARK WARNER....
653 FUHRMAN MILL
HANOVER/102.....
09-25-92
GROUP

BACTERIOLOGICAL ANALYSIS:
Total coliform bacteria: 4 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.

Sample DOES NOT MEET U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water. ** NOT SAFE FOR DRINKING **.
Coliform bacteria originate from the decomposition of organic matter and/or feces of warm blooded animals. Check well for possible entrance of surface water - check well cap for tight fit.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	8.1	mg/l	10 mg/l

* Based on Environmental Protection Agency regulations for community water supplies - these are only generalizations. Specific conditions may warrant more stringent limitations.
No representation as to the fitness or quality of the water sample taken is made, except for the parameters tested.

Respectfully submitted,
ENVIRO-LAB, INC.
Reviewed and Approved by:

Robert L. Weaver, Director

ENVIRO-LAB, INC.
Environmental Testing & Field Services
1221 HANOVER RD. • YORK, PA 17404-6299 PHONE (717) 225-5686 FAX (717) 225-6882

79

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

10-06-1992
WATER ANALYSIS REPORT AF/82

Sample #: 5278
Sample Marking:

WENTZ GREGORY...
RD#1 BOX 179....
~~HANOVER/17~~9.....GLENVILLE, PA 17329

Date Collected: 09-24-92
Collected By: CLIENT

BACTERIOLOGICAL ANALYSIS:
Total coliform bacteria: 0 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.
Fecal strep bacteria: 0 colonies per 100 ml.

Sample MEETS U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	3.4	mg/l	10 mg/l

* Based on Environmental Protection Agency regulations for community water supplies - these are only generalizations. Specific conditions may warrant more stringent limitations.
No representation as to the fitness or quality of the water sample taken is made, except for the parameters tested.

Respectfully submitted,
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98

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

10-06-1992
WATER ANALYSIS REPORT BE/10-4

Sample #: 5238 WENTZ JOHN.....
Sample Marking: 2630 PLEASANT HI
HANOVER/98.....
Date Collected: 09-23-92
Collected By: CLIENT

BACTERIOLOGICAL ANALYSIS:
Total coliform bacteria: 0 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.
Fecal strep bacteria: 0 colonies per 100 ml.

Sample MEETS U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
'ITRATES AS N	6.5	mg/l	10 mg/l

* Based on Environmental Protection Agency regulations for community water supplies - these are only generalizations. Specific conditions may warrant more stringent limitations.
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85

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

10-06-1992
WATER ANALYSIS REPORT BE/116

Sample #: 5236	WERNER DALE.....
Sample Marking:	3143 BALTIMORE P
	HANOVER/85.....
Date Collected:	09-23-92
Collected By:	CLIENT

BACTERIOLOGICAL ANALYSIS: (MF Method)

Total coliform bacteria: 0 colonies per 100 ml.

Fecal coliform bacteria: 0 colonies per 100 ml.

Sample MEETS U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	10.8	mg/l	10 mg/l

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57C

DOUG STAMBAUGH
GROUP HANOVER
213 CARLISLE ST.
HANOVER, PA 17331

AC # G.H.**

11-03-1992
WATER ANALYSIS REPORT A0127

Richard

Sample #: 6065
Sample Marking: DICK WILSIN....
382 ST. BARTHOLO
HANOVER.....
Date Collected: 10-23-92
Collected By: GROUP.

BACTERIOLOGICAL ANALYSIS:
Total coliform bacteria: 0 colonies per 100 ml. (MF Method)

Fecal coliform bacteria: 0 colonies per 100 ml.

Sample MEETS U.S. Public Health Service BACTERIOLOGICAL STANDARDS for drinking water.

CHEMICAL ANALYSIS:

Test	Results		Recommended Limits *
NITRATES AS N	6.3	mg/l	10 mg/l

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