

August 26, 2010



Mr. Payson Long  
NYS Department of Environmental Conservation  
Division of Environmental Remediation  
525 Broadway  
Albany, NY 12233

**Re: Review of Landfill Operations – Calendar Year 2009  
Town of Conklin Landfill  
Conklin, New York  
SCE No. R09357.01**

Dear Mr. Long:

Shumaker Consulting Engineering & Land Surveying, P.C. (SCE) has been contracted by the Town of Conklin (Town) to assist, monitor, and report on the ongoing Operations and Maintenance activities at the Town of Conklin Landfill site.

The current Operations and Maintenance Plan for the Landfill was prepared by Rust Environment and Infrastructure, and presented in the document entitled *Operation, Maintenance and Monitoring Plan, Conklin Landfill, Conklin, New York* dated June 27, 1996 (O&M Plan). The plan calls for submission of an annual report summarizing activities at the landfill within the past year. According to the O&M Plan the annual report is to include:

- The results of all groundwater, surface water, and leachate quality data acquired in the past year.
- The amount of leachate from the landfill that was collected from the leachate collection trench and recovery wells.
- The results of leachate analytical results and the amount of leachate discharged to the sanitary sewer.
- Any alterations from the approved report, plans, and specifications or permit conditions, including justification for the change.

This report has been prepared by SCE on behalf of the Town in support of the annual report commitment promulgated by the O&M Plan. The data collected as part of this study is presented herein.

**UTICA OFFICE**

430 Court Street, Suite 200  
Utica, NY 13502  
315-724-0100 • Fax 724-3715

**BINGHAMTON OFFICE**

143 Court Street  
Binghamton, NY 13901  
607-798-8081 • Fax 798-8186

**ALBANY OFFICE**

1510 Central Avenue, Suite 330  
Albany, NY 12205  
518-452-5730 • Fax 452-9230

## 1.0 SITE HISTORY

Two (2) landfill areas originally existed at the "Conklin Dumps Site". The areas, referred to as the upper and lower landfills, operated during the 1960s and 1970s. The areas were studied extensively in the 1980s and were subsequently nominated to the National Priorities List (NPL). A remedial action plan was selected for the site. The plan ultimately called for excavating the lower landfill and placing it on top of the upper landfill. The combined landfill was then capped and a leachate collection system was installed.

Since the remedial activities at the landfill were completed in the mid-1990s, post-closure monitoring and maintenance has been conducted under the O&M Plan, which has been in effect since that date. To date, the O&M Plan has received no authorized modifications.

## 2.0 ANNUAL INSPECTION OF LANDFILL

SCE technicians performed a visual inspection of the site on June 2, 2009, and June 15, 2009. Inspectors met with Mr. Thomas Delamarter, the Superintendent for Town of Conklin Water and Parks Department. Technicians inspected the landfill for:

- Condition of the perimeter fence and access roads.
- Brief inspection of the leachate collection system (trench manholes, pump station, storage tank, treatment building).
- Condition of the landfill cover for areas of instability, subsidence, erosion, discoloration, etc.
- Inspection of surface water drainage features for washouts, excessive sediment or debris in ditches, dislodged rip-rap, erosion, etc.
- Observed the gas venting system to determine if the vents have been damaged or disturbed.
- Condition of the monitoring and leachate recovery wells.

Overall, the site and landfill cap appears to be in good condition. Mr. Delamarter reports that Town forces visually inspect the landfill monthly and make repairs as needed. A formal record of inspections and repair work performed is not maintained. Town forces mow the landfill area approximately twice a year. The mowing schedule appears to be maintaining the integrity of the short rooted vegetative cover. Access roads were noted to be slightly overgrown but easily traversable. The site entrance was maintained and accessible. The security fence was observed to be in good condition; however, off-site trees are impinging the fence in several locations. Surface drainage features appeared to be in good condition. However, a ditch at the northeast corner of the landfill appears to have some impacts of biologic or microbial activity based the appearance of off-colored growth in the sediments. No immediate cause for excessive biologic or microbial growth was identified during the inspection.

Monitoring wells and gas vents appeared to be in generally good repair. It was noted that several of the monitoring wells were missing locking caps but do not appear to have been tampered with. Also, MW-38D, the downgradient deep well, appears to be accumulating excessive silt and may require redevelopment. A tree was noted to be growing close to MW-12. Furthermore, MW-12 is difficult to access due to thick vegetative growth along the north side of

the landfill security fence. MW-2, a well used for groundwater depth measurements only, is reported to have a blockage at 19-feet below the top.

During two (2) recent assessments conducted at the Landfill, the leachate recovery system was observed not functioning as designed. In 2008, corrective measures included replacing three (3) of four (4) pumps in the leachate collection system then the system was integrated into the town-wide SCADA system. During a 2009 inspection, the pump station pump was noted to have been out of service for an indeterminate time then later restored to an operational status.

At the time of this inspection, the system again was observed to be out of service. According to a representative from SCADA Tech Inc., the company that contracts with the Town to maintain SCADA system, one or more level sensors had recently failed which made automatic operation of the leachate pump impossible. The leachate pump was operated in the "Hand" mode, and approximately 1,500 gallons of leachate was pumped from the collection system sump into the leachate storage tank. With the exception of the failed level sensor(s), the leachate recovery wells and system appeared to be in proper operating condition. Following this inspection, the faulty sensor was identified and replaced, and the leachate collection system was returned to fully automatic operation.

Since the pump station pump was offline at the time of this inspection, the leachate collection trenches, which drain by gravity to the sump, were unlikely functioning as designed. However, with the corrections planned for the pump station, this deficiency will be corrected.

The leachate handling system was also inspected in support of this report. The exterior of the building that houses the leachate handling system was noted to be in good condition and no major structural or plumbing deficiencies were noted on the interior components.

The building is equipped with a sump pit as a form of containment. The pit was noted to be dry at the time of the inspection. The sump pump was not run and its functionality is unclear.

Two (2) bag filters and an associated transfer pump are currently configured to be by-passed during normal leachate discharges. According to the O&M Plan, the filters are only needed if laboratory analytical results of the leachate indicate an exceedance of the landfill's Industrial Wastewater Pretreatment Permit (IWPP) issued by the Binghamton-Johnson City Joint Sewage Treatment Board (BJCJSTB). To date, the permitted effluent limitations have not been exceeded and the filters have not been necessary.

Some areas of rust were noted on the metal storage tank and dike surfaces. Mr. Delamarter reports that the Town is coordinating with the officials from the Broome County Jail to have the tank and dike repainted. It was also noted that the dike drain valve was inadvertently left in the "open" position; the Town will ensure that the valve is closed unless stormwater is being drained from the tank.

### **3.0 LEACHATE DISCHARGES**

The Site is equipped with a leachate collection system that includes leachate recovery wells and trenches. Leachate is temporarily stored in a pump station prior to being transferred to a 30,000-gallon aboveground storage tank (AST). The leachate is stored in the tank until it is sampled and submitted for laboratory analysis. After analytical results are received the leachate is discharged to the sewer system. As previously noted, the discharge of the leachate is regulated through an IWPP permit with the BJCJSTB. The permit was most recently updated in September 2009. Leachate is currently discharged once a year. The Town has coordinated discharge of the leachate with the annual inspection of the facility conducted by the BJCJSTB (Note: SCE is contracted separately by Stearns and Wheler to inspect facilities in the IWPP program for the BJCJSTB). The Town utilizes the analytical data gathered by the BJCJSTB to determine if the leachate is within their permitted effluent limitations prior to discharging to the sewer system. The Town then reports to the BJCJSTB when they discharge the leachate.

According to Town records, the facility was last inspected by the BJCJSTB on August 19, 2009. Samples of the leachate were collected and submitted for laboratory analysis. Analytical parameters included PCBs, Ammonia, TKN, Cyanide, TSS, Metals, VOCs, and Oil and Grease. In the BJCJSTB letter dated October 22, 2009, the Town received notification that they are in substantial compliance with their permit. Subsequent to the receipt of the October 22, 2009 letter, the Town discharged approximately 18,600 gallons of leachate to the sewer system between November 18, 2009 and November 20, 2009. A copy of the discharge permit, compliance report, and record of discharge are attached as Appendix A.

At this time, the Town does not track the amount of leachate recovered from each of the three (3) recovery wells. However, the Town does regularly monitor the leachate level in the storage tank to ensure that the tank is not in danger overflow. Although the tank is not currently equipped with a high level alarm, but the Town plans to have one installed in the near future.

### **4.0 GROUNDWATER AND SURFACE QUALITY ASSESSMENT**

The landfill is required to sample a selection of monitoring wells and a surface water (Carlin Creek) every quarter. One (1) round each year must be analyzed for Part 360 baseline parameters. On behalf of the Town, SCE submitted a Landfill Monitoring Variance request, in September 2009. The request would allow the landfill to be sampled every fifth-quarter for Part 360 baseline parameters. To date, formal approval of the plan has not been received. Therefore, sampling in 2009 was conducted in accordance with the O&M Plan.

The Town has contracted with Benchmark Analytics, Inc. (Benchmark) to perform the quarterly sampling. The site was assessed and sampled by a representative from Test Assured Network, a subcontractor to Benchmark, on:

- March 17, 2009
- June 3, 2009
- August 19, 2009
- October 21, 2009

The laboratory narratives for the sampling events do not indicate any problems with the sampling or analysis. A summary of laboratory analytical data and full laboratory reports for 2009-2010 are attached as Appendix B.

#### **4.1. GROUNDWATER QUALITY ASSESSMENT**

None of the wells sampled during the Benchmark Sampling Events on June 24, 2008, or August 19, 2009, indicated that concentrations of the identified leachate marker compounds Chloroethane, 1,2-Dichloropropane, Methylene Chloride, or Xylenes were present above detection limits in any of the samples.

The upgradient well, MW-1, continues to exhibit periodic excursions in detected concentrations of Phenol, Cadmium, Iron, Manganese, and Sodium. These sporadic exceedances complicate the evaluation of the downgradient monitoring well data, and no cause for these excursions has been identified.

All of the downgradient wells contained iron, manganese, lead, and thallium at elevated concentrations exceeding the New York State Department of Environmental Conservation (NYSDEC) drinking water standards.

During the August 18, 2009 Benchmark sampling round, chromium was detected in Wells MW-3, MW-12, MW-37, and MW-38D. Chromium was not detected in any wells during any other sampling event.

Newly replaced well MW-3 and the existing MW-38D continue to exhibit the most widespread inorganic compounds that exceed NYDEC standards. In addition to the widespread concentrations of iron, manganese, lead, and thallium, these wells were also identified to contain elevated levels of magnesium and sodium. Nickel was also detected in both wells during the Benchmark analytical round on August 19, 2009.

#### **4.2. SURFACE WATER QUALITY ASSESSMENT**

Samples within Carlin Creek continue to exhibit very little change throughout the year, with no detected excursions in any of analytes evaluated. It is possible that the low suspended solids in these samples contributes to the consistently low detections of inorganic parameters.

No volatile organic compounds (VOC) were detected in the benchmark analysis at the Carlin Creek sampling point.

### **5.0 RECOMMENDATIONS**

Based on the observations of the past year of landfill operations, SCE recommends the following:

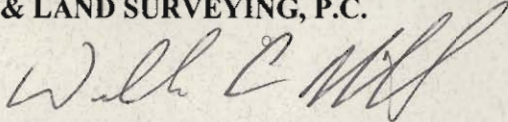
- The Town maintenance staff should develop an improved system of tracking inspections and maintenance activities conducted at the landfill. In addition, subsequent repairs made to equipment should be tracked and documented.

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- Monitoring Well MW-38D, as well as any other monitoring wells that exhibit infiltration of silt, should be redeveloped to remove the sediment which could possibly impact monitoring results.
- The drainage ditch at the northeast corner of the landfill site should be monitored for excessive biologic or microbial activity which could signify nutrient issues. If further activity is noted, then an assessment of the source may be warranted.
- Periodically test and inspect the leachate collection system to ensure it is properly maintained and in working order. It is recommended that the pumps be operated in HAND at least quarterly in order to verify their operability.

Very Truly Yours

**SHUMAKER CONSULTING ENGINEERING  
& LAND SURVEYING, P.C.**



W. Curtis Nichols, P.E., LEED-AP  
Managing Engineer

WCN/krf

Enclosures

cc: Debbie Preston, Town of Conklin  
Tom Delamarter, Town of Conklin  
Nicholas Lee, SCE

## APPENDIX A

**INDUSTRIAL WASTEWATER DISCHARGE PERMIT**

PERMIT NUMBER: 031

INDUSTRIAL CODE: -

EFFECTIVE DATE: September 1, 2009

SIC: 4952

EXPIRATION DATE: August 31, 2012

In compliance with Article 6, Section 6.02 of the Rules and Regulations Relating to Use of the Binghamton-Johnson City Joint Sewage Treatment Plant issued by the Binghamton-Johnson City Joint Sewage Board

TOWN OF CONKLIN  
NAME OF COMPANY

is authorized by the Board to discharge industrial wastewater from an industrial facility located at

P.O. BOX 182

CONKLIN, NY 13749

ADDRESS OF COMPANY FACILITY DISCHARGING WASTEWATER

to the Binghamton-Johnson City Joint Sewage Treatment Plant (BJCJSTP) in accordance with the following conditions:

**A. EFFLUENT LIMITATIONS**

No person shall discharge directly or indirectly into the POTW wastewater containing any of the following substances in concentrations exceeding those specified below.

Parameter Substance	Daily Maximum Limits mg/l
Cadmium (T) <sup>1</sup>	0.3
Chromium (T)	4.0
Copper (T)	1.0
Lead (T)	1.5
Mercury	0.001
Nickel (T)	2.5
Zinc (T)	8.0
Oil & Grease (T)	50.0
PCBs (T)	0.001
Cyanide (T)	2.31

<sup>1</sup> (T) = Total



The following wastes shall not be introduced into the public sewer system:

- (a) Wastes which create a fire or explosion hazard in the sewer system or treatment works, including but not limited to, waste streams with a closed-cup flashpoint of less than 140°F (60°C) using the test methods specified in 40 CFR 261.21.
- (b) Wastes which have a pH lower than 6.0 S.U. or higher than 12.0 S.U.
- (c) Solid or viscous wastes in amounts which would cause obstruction to the flow in sewers, or other interference with the proper operation of the sewage treatment plant.
- (d) Wastes at a flow rate and/or pollutant discharge rate which is excessive over relatively short time periods so that there is a treatment process upset or subsequent loss of treatment efficiency at the sewage treatment plant.
- (e) Wastes which are prohibited in Article 5 of the Rules and Regulations Relating to Use of the Binghamton-Johnson City Joint Sewage Treatment Plant.

**B. MONITORING AND RECORDING**

The monitoring of each industrial discharge and the recording of quantitative values shall be performed prior to discharge by the Permittee according to schedules established by the Joint Sewage Board utilizing approved methodology. The flow (in gallons) shall be measured during each sampling period. If flow measurement is not practicable, water use records may be substituted in place of flow measurement. *The sampling schedule cited below shall become effective on the date of operational compliance specified in this permit.*

Sampling Location	Parameters	Monitoring Frequency	Type of Sample
Sample Tank prior to discharge	Arsenic	Each Discharge	Grab
	Cadmium (T)	Each Discharge	Grab
	Chromium (T)	Each Discharge	Grab
	Copper (T)	Each Discharge	Grab
	Cyanide	Each Discharge	Grab
	Iron (T)	Each Discharge	Grab
	Lead (T)	Each Discharge	Grab
	Mercury	Each Discharge	Grab
	Nickel	Each Discharge	Grab
	Silver	Each Discharge	Grab
	Zinc (T)	Each Discharge	Grab
	Ammonia (as NH <sub>3</sub> )	Each Discharge	Grab
	TKN	Each Discharge	Grab
	TSS	Each Discharge	Grab
	BOD <sub>5</sub>	Each Discharge	Grab
	Flashpoint	Each Discharge	Grab
	Oil & Grease	Each Discharge	Grab
	PCBs, total	Each Discharge	Grab
	Volatile Organics or TTO (EPA 624)	Each Discharge	Grab
	pH	Each Discharge	Grab
Flow	Each Discharge	Grab	

All analyses shall be performed in accordance with the latest edition of the following references:

STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, 15<sup>th</sup> Edition, 1971, American Public Health Association, New York, New York 10019.

METHODS FOR CHEMICAL ANALYSIS OF WATER AND WASTES, March 1983, EPA-600/4-79-020, Environmental Protection Agency, Water Quality Office, Environmental Monitoring and Support Laboratory, NERC, 1014 Broadway, Cincinnati, Ohio 45268.

GUIDELINES ESTABLISHING TEST PROCEDURES FOR THE ANALYSIS OF POLLUTANTS UNDER THE CLEAN WATER ACT, FINAL RULE Environmental Protection Agency, 40 CFR Part 136, October 26, 1984.

#### C. REPORTING REQUIREMENTS

**SELF-MONITORING REPORT**— The industrial user shall submit to the Joint Sewage Board a Self-Monitoring Report as required under Federal regulation 40 CFR 403.12(h). Such reports shall be submitted within 10 days of the facility discharging into the sanitary sewer and contain the results of the monitoring required under this permit, as well as any other analytical results from monitoring performed on leachate. The report shall include a certification that the material that is being discharged to the sanitary sewer system is not a listed hazardous waste and does not exhibit a characteristic of a hazardous waste in accordance with 40 CFR Part 261 and 6 NYCRR Part 371.

If the results of the permittee's wastewater analysis indicates that a violation of this permit has occurred, the permittee must:

- (1) Inform the Joint Sewage Board of the violation within 24 hours; and
- (2) Repeat the sampling and pollutant analysis and submit, in writing, the results of this second analysis within 30 days of the first violation.

#### D. DILUTION

No industry shall increase the use of potable or process water in any way for the purpose of diluting a discharge as a partial or complete substitute for adequate treatment to achieve compliance with any applicable Federal pretreatment standards or any other limitations set forth in this permit or the Rules and Regulations Relating to Use of the Binghamton-Johnson City Joint Sewage Treatment Plant.

#### E. NOTICE OF NON-COMPLIANCE

In the event the Permittee does not comply with or will be unable to comply with any effluent limitation specified in this permit or discharges any slug loading to the sanitary sewer due to:

- (1) Breakdown of Industrial Waste Pretreatment Equipment;
- (2) Accidents caused by human error or negligence;
- (3) Spills, releases, bypasses or process upsets; or
- (4) Other causes, such as acts of nature;

The Permittee shall notify the Treatment Plant Superintendent forthwith so that the necessary steps to prevent damage to the wastewater collection and treatment system can be taken. In addition to the notice provided above, the Permittee shall notify the Superintendent in writing within five (5) days of the date of occurrence by a detailed statement including the following pertinent information:

- (1) Cause of non-compliance;
- (2) A description of the non-complying discharge;
- (3) Anticipated time the condition of non-compliance is expected to continue, or if such condition has been corrected, the duration of the period of non-compliance;
- (4) Steps taken by the Permittee to reduce and eliminate the non-complying discharge; and
- (5) Steps to be taken by the Permittee to prevent recurrence of the condition of non-compliance.

Nothing in this Permit shall be construed to relieve the Permittee from the penalties for non-compliance with this Permit for any reason subject to the Rules and Regulations Relating to Use of the Binghamton-Johnson City Joint Sewage Treatment Plant.

#### F. CHANGE IN WASTEWATER DISCHARGE

All discharges authorized herein shall comply with the terms and conditions of this permit. Any industrial facility expansions, production increases or process modifications which result in new, different or increased discharges of pollutants must be reported by submission of revised Industrial Chemical Survey and Industrial Waste Survey Forms pursuant to Article 6 Section 6.02 of the Rules and Regulations Relating to Use of the Binghamton-Johnson City Joint Sewage Treatment Plant. This Permit may be modified to specify and limit any pollutants not previously limited. The discharges of any pollutant more frequently than, or at a level in excess of, that specified and authorized by this Permit shall constitute a violation of the terms and conditions of this permit.

#### G. MODIFICATION, SUSPENSION OR REVOCATION OF PERMITS

(a) Industrial Wastewater Discharge Permits may be modified, suspended or revoked whenever the Joint Sewage Board finds after a hearing held in conformance with the procedures set forth in Article 3:

- (1) that the user has violated any term of the Permit; or
- (2) that the user obtained the Permit by misrepresentation or failure to disclose fully all relevant facts.

(b) Permits may additionally be modified, suspended or revoked whenever the Board determines that a change in conditions or the existence of a condition at the Joint Sewage Treatment Plant requires either a temporary or permanent reduction or elimination of the authorized discharge. The Manager shall notify affected users of any proposed changes in their Permit at least 30 days prior to the effective date of the change. Any changes or new conditions in the Permit shall include a reasonable time schedule for compliance. Any user aggrieved by a proposed modification, suspension or revocation of the user's wastewater discharge permit may appeal to the Board for relief in accordance with the provisions of Article 3, Section 3.08 of the Rules and Regulations.

(c) If the Manager finds that the public health, safety or welfare requires emergency action, and incorporates a finding to that effect in his/her order, summary suspension or modification of a

permit may be ordered pending proceedings for modification, suspension, revocation or other action. As soon as possible thereafter, but not to exceed fifteen (15) days, the Board shall provide the affected user an opportunity to be heard in accordance with the hearing provisions of Article 3 of the Rules and Regulations.

#### H. RIGHT OF ENTRY

The Permittee shall allow duly authorized employees or representatives of the Joint Sewage Board to enter the Permittee's premises for the purpose of inspection, observation, measurement, sampling, and testing in accordance with Article 6, Section 6.20 of the Rules and Regulations.

#### I. TRANSFER OF PERMIT

Industrial Waste Discharge Permits are issued to a specific User for a specific operation and are non-transferable. In the event of any change in ownership of the industrial facility, the Permittee shall notify the new owner of the existence of the Permit by letter, a copy of which shall be forwarded to the Superintendent of the Sewage Treatment Plant.

#### J. PRETREATMENT FACILITIES

The Permittee shall provide and maintain at his expense, all necessary facilities for the pretreatment of industrial wastewaters when required by the Joint Sewage Board pursuant to Article 6, Section 6.15 of the Rules and Regulations Relating to Use of the Binghamton-Johnson City Joint Sewage Treatment Plant. All reports, plans and/or specifications for new or modified pretreatment facilities must be submitted to the Joint Sewage Board.

#### K. WASTE MATERIAL DISPOSAL

Any screenings, sludges, solids, waste oils, or other waste materials removed or separated from the Permittee's authorized discharge shall be disposed of in accordance with applicable Federal, State and local regulations and prevented from entering the wastewater treatment system. The following data shall be reported to the Joint Sewage Board:

- (a) The sources of materials to be disposed .
- (b) The approximate volumes and weights.
- (c) The method by which they were removed and transported.
- (d) The company contracted to remove such materials.
- (e) The final disposal or recovery location.

#### L. MONITORING FACILITY REQUIREMENTS

If there are not adequate facilities where representative samples can be obtained and accurate flow measurement taken, the Joint Sewage Board can require that monitoring facilities be installed by the Permittee at his expense in accordance with Article 6, Section 6.14 of the Rules and Regulations Relating to Use of the Binghamton-Johnson City Joint Sewage Treatment Plant.

M. SCHEDULE OF COMPLIANCE

The Permittee shall comply with the following schedule in meeting the terms and conditions of this permit:

- (a) The Permittee shall submit a Monthly Periodic Compliance Report containing the results of monitoring during the previous month.

N. RECORD-KEEPING REQUIREMENTS

The Permittee shall maintain records of all information resulting from any monitoring activities for a minimum of three (3) years, whether or not such monitoring activities are required by the Joint Sewage Board. The period of retention shall be extended during the course of any unresolved litigation regarding the User. The records shall be made available for inspection and copying by the Joint Sewage Board. Records for all monitoring shall include:

- (a) The date, exact place, method and time of sampling, and the names of the person or persons taking the samples.
- (b) The dates analyses were performed.
- (c) Who performed the analyses.
- (d) The analytical methods used.
- (e) The results of such analyses.

O. COMPUTATION AND PAYMENTS OF WASTE SURCHARGE

The Permittee shall pay its proportionate share of the costs of operation and maintenance and local debt retirement of the treatment facility to which it discharges wastewater.

As stated in Article 7, Section 7.03 of the Rules and Regulations, the Wastewater Surcharge shall be computed by the Board in the following manner:

$$\text{Surcharge} = 8.34 Q (C_x - C_x \text{STP}) \$_x + \dots$$

Where:

Q = Flow of user's discharge in millions of gallons per day.

C<sub>x</sub> = Concentration of parameter x in user's discharge in parts per million.

C<sub>x</sub> STP = Sewage treatment plant design concentration of parameter x in parts per million.

\$\_x\$ = Unit charge for treatment of parameter x in dollars per pound.

The unit charge (\$<sub>x</sub>) for any parameter (x) subject to surcharge will be determined as follows:

$$\$_x = [P_{cx} (\text{Capital Cost}) + P_{ox} (\text{Operations and Maintenance Cost})] \div 365 L_x$$

Where:

$P_{cx}$  = Percentage of annual capital cost debt retirement attributable to treatment of parameter x.

$P_{ox}$  = Percentage of annual operation and maintenance cost attributable to treatment of parameter x.

$L_x$  = Average sewage treatment plant influent loading of parameter x in pounds per day.

The parameter x shall be based upon the measured or estimated constituents and characteristics of your wastewater discharge which may include but are not limited to: flow rate, Biochemical Oxygen Demand (BOD), Total Suspended Solids (TSS), Total Phosphorous (TP), Total Nitrogen (TKN), Total Organic Carbon (TOC).

Payments shall be made to the Joint Sewage Board by the industrial users no less often than annually. If there is a substantial change in the wastewater characteristics and flow rate introduced into the sewer system by an industrial user, such user's industrial surcharge shall be adjusted accordingly.

#### P. CIVIL AND CRIMINAL PENALTY

Any person who violates any of the provisions of or who fails to perform any duty imposed by the Rules and Regulations or any order or determination of the Joint Sewage Board or the terms of any permit issued thereunder, shall be liable to the City of Binghamton and the Village of Johnson City for a civil penalty of at least One Thousand Dollars (\$1,000) per day for each violation, to be assessed after a hearing held in conformance with the procedures set forth in §3.09 of the Rules and Regulations. Each violation shall be a separate and distinct violation and in the case of a continuing violation, each day's continuance thereof shall be deemed a separate and distinct violation. Such penalty may be recovered in an action brought by the Board's attorney in the name of the City of Binghamton and Village of Johnson City in any court of competent jurisdiction. Such civil penalty may be related or compromised by the Board before the matter has been referred to the Board's attorney and where such matter has been referred to the Board's attorney, any such penalty may be released or compromised and any action commenced to recover the same may be settled and discontinued by the Board's attorney only with the consent of the City of Binghamton and Village of Johnson City.

Any person who willfully violates any provision of the Rules and Regulations or any final determination or order of the Joint Sewage Board made in accordance with Article 3 of the Rules and Regulations shall, in addition, be guilty of a misdemeanor and upon conviction thereof, shall be punished by imprisonment of not more than six months or by a fine of at least \$1,000 per day. Each offense shall be a separate and distinct offense and in the case of a continuing offense, each day's continuance thereof shall be deemed a separate and distinct offense.





Binghamton-Johnson City  
JOINT SEWAGE BOARD



Eugene Hulbert, Sr.  
Luke Day  
Edward Crumb

Kenneth E. Kinsman  
Thomas R. Augustini  
John Chauncey

October 22, 2009

Mr. Thomas Delmarta  
Water Department, Town of Conklin  
P.O. Box 182  
Conklin, NY 13748

Re: Binghamton-Johnson City Joint Sewage Board  
Industrial Wastewater Pretreatment Program


Dear Mr. Delmarta:

The Annual Industrial Wastewater Pretreatment Program inspection and sampling completed on August 19, 2009 at the Town of Conklin Landfill indicates that your facility is satisfactorily meeting the conditions established in your Industrial Wastewater Discharge Permit (Permit Number 031). A copy of the laboratory report is attached for your review.

The Joint Sewage Board appreciates your cooperation in the pretreatment program. If you have any questions or concerns, please feel free to contact me.

Sincerely,

BINGHAMTON-JOHNSON CITY JOINT SEWAGE BOARD

  
Catherine P. Aingworth  
Superintendent

Enclosure

cc: John LaGorga, Stearns & Wheeler, LLC (w/o enc.)

Catherine P. Aingworth, Superintendent  
Binghamton-Johnson City Joint Sewage Treatment Facilities  
4480 Old Vestal Road, Vestal, New York 13850  
Phone: 607-729-2975 Fax: 607-729-0110  
Email: bjcwwtp@stny.rr.com





**Certified  
Environmental  
Services, Inc.**

1401 Erie Blvd. East  
Syracuse, NY 13210  
Phone 315-478-2374  
Fax 315-478-2107

REPORT OF ANALYSES

Binghamton-Johnson City JSTP  
4480 Old Vestal Road  
Vestal, NY 13850-  
Attn: Ms. Cathy Aingworth

PROJECT NAME: PreTreatment Annual Sampling  
DATE: 09/11/2009

SAMPLE NUMBER- 570135 SAMPLE ID- Conklin Landfill  
DATE SAMPLED- 08/19/09  
DATE RECEIVED- 08/25/09 SAMPLER- Ed Pepe  
TIME RECEIVED- 1354 DELIVERED BY- T. Thompson

SAMPLE MATRIX- WW  
TIME SAMPLED- 0800  
RECEIVED BY- RS  
TYPE SAMPLE- Grab

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ANALYSIS	METHOD	SAMPLE PREP		ANALYSIS DATE	BY	DATE	TIME	BY	RESULT	UNITS
		DATE	BY							
Sample Receipt Temperature				08/25/09				RS	3.0	Degrees C
PCB'S IN WATER	EPA 8082	08/26/09	KSH	08/29/09				BLD		
AROCLOR 1221	EPA 8082	08/26/09	KSH	08/29/09				BLD	< 0.065	ug/L
AROCLOR 1232	EPA 8082	08/26/09	KSH	08/29/09				BLD	< 0.065	ug/L
AROCLOR 1242/1016	EPA 8082	08/26/09	KSH	08/29/09				BLD	< 0.065	ug/L
AROCLOR 1248	EPA 8082	08/26/09	KSH	08/29/09				BLD	< 0.065	ug/L
AROCLOR 1254	EPA 8082	08/26/09	KSH	08/29/09				BLD	< 0.065	ug/L
AROCLOR 1260	EPA 8082	08/26/09	KSH	08/29/09				BLD	< 0.065	ug/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

(Terms and Conditions on Reverse Side)

Patrick A. Leone, Jr.  
Laboratory Director

The analytical results on this sample are **representative** of the sample as received by the Laboratory.

**APPENDIX B**

Shumaker Consulting Engineering and Land Surveying, P.C.  
 Analytical Memo for the Cooklin Landfill  
 SCE Project 08126100

Analyze (Node 1)	Units	Date Sampled:		3/17/2008	6/24/2008	3/17/2008	6/7/2008	8/19/2008	10/21/2008	3/10/2010
		Guidance Value	Value							
Chloroethane	ug/l	5	<0.005	-	<0.005	-	<0.001	<0.001	-	-
1,2-Dichloroethane	ug/l	1	<0.005	-	<0.005	-	<0.001	<0.001	-	-
Methylene chloride	ug/l	5	<0.005	-	<0.005	-	<0.001	<0.001	-	-
o-Xylene	ug/l	5	<0.005	-	<0.005	-	<0.001	<0.001	-	-
m,p-Xylene	ug/l	5	<0.005	-	<0.005	-	<0.001	<0.001	-	-
Alkalinity as CaCO3	mg/l	236	232	242	238	253	246	230		
Ammonia as N	mg/l	2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Biochemical Oxygen Demand-5	mg/l	5	<5	<5	<5	<5	<5	<5	<5	<5
Chloride	mg/l	250	1.6	1.23	1.74	1.85	2.97	2.49	2.36	
Chemical Oxygen Demand	mg/l	<10	<10	47	<10	<10	<10	<10	<10	<10
Hexavalent Chromium	mg/l	10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrate as N	mg/l	10	0.11	0.1	0.05	0.18	0.07	0.07	0.07	<0.05
pH	pH Units	6.5-8.5	8.22	7.7	7.71	7.69	7.54	7.69	7.21	
Phenol	mg/l	0.001	<0.025	<0.025	<0.025	<0.025	0.039	<0.025	0.064	
Total Dissolved Solids	mg/l	500	260	218	205	443	372	228		
Sulfate as SO4	mg/l	250	5.76	6.21	5.8	5.67	6.15	6.1	7.75	
Total Kjeldahl Nitrogen	mg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Organic Carbon	mg/l	1.3	0.7	<0.5	<0.5	0.7	<0.5	0.6		
Total Hardness as CaCO3	mg/l	203	205	182	207	205	211	220		
Color	Color Units	5	<5	<5	<5	<5	<5	<5	<5	<5
Cyanide	mg/l	0.2	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Strombils	mg/l	2	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Mercury	mg/l	0.0007	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Silver	mg/l	0.05	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Aluminum	mg/l	0.025	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Arsenic	mg/l	1	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Boron	mg/l	1	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
Beryllium	mg/l	0.03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Calcium	mg/l	0.005	50.3	51.4	47.6	52.2	53.4	52.1	55.9	
Cadmium	mg/l	0.05	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cobalt	mg/l	0.2	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Chromium	mg/l	0.2	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Copper	mg/l	0.3	0.126	<0.020	0.146	<0.020	0.063	<0.020	0.048	
Iron	mg/l	35	18.7	18.0	17.8	18.7	17.4	19.6	19.3	
Potassium	mg/l	2	2.19	1.86	1.74	1.6	1.84	1.77	1.84	
Magnesium	mg/l	35	18.7	18.0	17.8	18.7	17.4	19.6	19.3	
Manganese	mg/l	0.3	0.034	0.074	0.078	0.011	0.067	0.017	0.111	
Sodium	mg/l	20	15	16.7	12.9	16.2	20.9	19.3	21.5	
Nickel	mg/l	0.1	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Lead	mg/l	0.025	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Antimony	mg/l	0.03	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Thallium	mg/l	0.0005	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Vanadium	mg/l	0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Zinc	mg/l	2	0.008	<0.005	0.011	<0.005	0.008	<0.005	<0.005	<0.005
Selenium	mg/l	0.01	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Korea										

1. Full analytical reports (a) (a) (a) Target Compound List were analyzed but were not detected. Contaminants of concern (a) (a) (a) Organic compounds listed below are for the MethVene Chloride, which has been detected above standards in one sampling event.

2. Highlighted cell indicates compound detected above applicable regulatory limit.

Shumaker Consulting Engineering and Land Surveying, P.C.  
Analytical History for the Conklin Landfill  
SCE Project 08126.00

Monitoring Well 3	Units	Date Sampled	Guidance Value	Date								
				3/17/2008	6/24/2008	3/17/2009	6/2/2009	8/19/2009	10/21/2009	3/10/2010		
Analyte (Note 1)	ug/l	5	<0.005									
Chloroethane	ug/l	1	<0.005									
1,2-Dichloropropane	ug/l	5	<0.005									
Methylene chloride	ug/l	5	<0.005									
<i>o</i> -Xylene	ug/l	5	<0.005									
<i>m,p</i> -Xylene	ug/l	5	<0.005									
Alkalinity as CaCO3	mg/l		172	148	188	82	105	144	122			
Ammonia as N	mg/l	2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			
Biochemical Oxygen Demand-5	mg/l		<6	<6	<6	<6	<6	<6	<6			
Chloride	mg/l	250	366	120	20.6	20.4	16.3	15.3	11.2			
Chemical Oxygen Demand	mg/l		53	108	23	23	70	<10	13			
Hexavalent Chromium	mg/l		<0.01				<0.01					
Nitrate as N	mg/l	10	0.15	0.05	<0.05	0.03	<0.05	<0.05	<0.05			
pH	pH Units	6.5-8.5	7.77	6.89	6.74	6.45	6.49	6.71	6.51			
Phenol	mg/l	0.001	<0.025	<0.025	<0.025	<0.025	<0.025	0.074	<0.025			
Total Dissolved Solids	mg/l	500	784	304	70	242	16,200	370	163			
Sulfate as SO4	mg/l	250	20.6	18.3	18.6	15.9	16	14.2	12.2			
Total Kjeldahl Nitrogen	mg/l		<1.0	1.9	2	<1.0	<1.0	<1.0	<1.0			
Total Organic Carbon	mg/l		2.3	2.2	2.1	2	2	2	1.6			
Total Hardness as CaCO3	mg/l		155	217	2099	290	269	354	197			
Color	Color Units	5	8				<5					
Cyanide	mg/l	0.2	<0.010				<0.010					
Bromide	mg/l	2	<0.25	<0.25	0.11	0.09	0.11	0.12	0.09			
Mercury	mg/l	0.0007	-	<0.0002			<0.0002					
Silver	mg/l	0.05	-	<0.002			0.002					
Aluminum	mg/l		-	13			61.5					
Arsenic	mg/l	0.025	-	<0.025			0.039					
Boron	mg/l	1	-	<0.100			<0.1					
Barium	mg/l	1	-	0.289			0.888					
Beryllium	mg/l	0.03	-	<0.001			0.004					
Calcium	mg/l		47.2	56.8	205	69.5	65.2	51.9	40.5			
Cadmium	mg/l	0.005	<0.001	<0.001	0.034	<0.001	<0.001	<0.005	<0.001			
Cobalt	mg/l		-	0.012			0.071					
Chromium	mg/l	0.05	-	0.021			0.065					
Copper	mg/l	0.2	-	0.067			0.132					
Iron	mg/l	0.3	4.04	31.5	1970	97.3	114	302	54.1			
Potassium	mg/l		1.34	3.15	34.3	4.98	5.69	6.32	4.38			
Magnesium	mg/l	35	8.98	18.1	366	28.3	30.6	54.7	23.3			
Manganese	mg/l	0.3	5.17	12.5	74.5	4.77	3.47	3.49	1.18			
Sodium	mg/l	20	227	38.3	22.9	12.4	14.9	12.8	11.7			
Nickel	mg/l	0.1	-	0.023			0.119					
Lead	mg/l	0.025	<0.010	0.021	1.33	0.064	0.077	0.121	0.041			
Antimony	mg/l	0.03	-	<0.020			<0.02					
Thallium	mg/l	0.0005	<0.025	<0.025	<0.425	0.072	<0.025	<0.125	0.034			
Vanadium	mg/l		<0.010	<0.020	1.1	0.067	0.078	0.157	0.056			
Zinc	mg/l	2	0.015	0.087	6.32	0.505	0.33	0.733	0.226			
Selenium	mg/l	0.01	-	<0.040			<0.040					

Notes  
 1. Full analytical reports for the Target Compound List were analyzed but were not detected.  
 2. Concentrations of concern plus Organic compounds listed herein are for the Methylene Chloride, which has been detected above standards in one sampling event.  
 3. Highlighted cell indicates compound detected above applicable regulatory limit

Analyte (Note 1)	Units	Date Sampled: Guidance Value	Monitoring Well 4										
			3/17/2008	6/24/2008	3/17/2009	6/3/2009	6/19/2009	6/12/2009	3/10/2010				
Chloroethane	ug/l	5	-	<0.005	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	ug/l	1	-	<0.005	-	-	-	-	-	-	-	-	-
Methylene chloride	ug/l	5	-	<0.005	-	-	-	-	-	-	-	-	-
p-Xylene	ug/l	5	-	<0.005	-	-	-	-	-	-	-	-	-
m,p-Xylene	ug/l	5	-	<0.005	-	-	-	-	-	-	-	-	-
Alkalinity as CaCO3	mg/l		108	88	128	66	66	65	94	102			
Ammonia as N	mg/l	2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Biochemical Oxygen Demand-5	mg/l		<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8
Chloride	mg/l	250	7.16	9.45	10.1	10.6	13.7	18.9	16.2	<10	<10	<10	<10
Chemical Oxygen Demand	mg/l		<10	23	16	<10	41	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexavalent Chromium	mg/l		-	<0.01	-	-	-	-	-	-	-	-	-
Nitrate as N	mg/l	10	0.17	0.2	0.17	0.17	0.2	0.2	0.22	0.22	0.22	0.22	0.22
pH	pH Units	6.5-8.5	8.1	6.94	7.42	7.02	6.78	6.89	6.89	6.43	6.89	6.43	6.43
Phenol	mg/l	0.001	<0.025	<0.025	<0.025	<0.025	0.046	0.051	<0.025	<0.025	<0.025	<0.025	<0.025
Total Dissolved Solids	mg/l	500	136	121	89	10	1060	269	118	269	118	269	118
Sulfate as SO4	mg/l	250	9.11	13	8.65	8.89	10.1	8.58	8.86	8.58	8.86	8.58	8.86
Total Kjeldahl Nitrogen	mg/l		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Organic Carbon	mg/l		1.5	1.1	<0.5	0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Hardness as CaCO3	mg/l		125	118	111	156	137	137	137	137	137	137	136
Color	Color Units	5	-	10	-	-	-	5	-	-	-	-	-
Cyanide	mg/l	0.2	<0.010	<0.010	<0.010	<0.010	<0.010	0.07	<0.010	0.07	<0.010	<0.010	<0.010
Bromide	mg/l	2	<0.050	<0.25	<0.050	<0.050	<0.050	0.06	<0.050	0.06	<0.050	<0.050	<0.050
Mercury	mg/l	0.0007	-	<0.0002	-	-	<0.0002	-	<0.0002	-	<0.0002	<0.0002	<0.0002
Silver	mg/l	0.05	-	9.76	-	-	-	21.1	-	-	-	-	-
Aluminum	mg/l	0.025	-	<0.025	-	-	<0.025	-	<0.025	-	<0.025	<0.025	<0.025
Arsenic	mg/l	1	-	<0.100	-	-	<0.100	-	<0.100	-	<0.100	<0.100	<0.100
Boron	mg/l	1	-	0.12	-	-	0.229	-	0.229	-	0.229	0.229	0.229
Barium	mg/l	1	-	<0.001	-	-	<0.001	-	<0.001	-	<0.001	<0.001	<0.001
Beryllium	mg/l	0.03	-	<0.001	-	-	<0.001	-	<0.001	-	<0.001	<0.001	<0.001
Calcium	mg/l		32.5	30.3	31.2	36.2	31.9	33.3	34.6	33.3	34.6	33.3	34.6
Cadmium	mg/l	0.005	0.002	<0.001	<0.001	<0.001	<0.001	0.081	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt	mg/l		-	0.042	-	-	0.021	-	0.021	-	0.021	0.021	0.021
Chromium	mg/l	0.05	-	<0.010	-	-	<0.010	-	<0.010	-	<0.010	<0.010	<0.010
Copper	mg/l	0.2	-	0.018	-	-	0.035	-	0.035	-	0.035	0.035	0.035
Iron	mg/l	0.3	20.3	18.8	0.337	61.5	44.7	37.8	27.4	37.8	27.4	37.8	27.4
Potassium	mg/l	3	2.86	0.617	5.20	3.5	2.67	2.67	2.67	2.67	2.67	2.67	2.67
Magnesium	mg/l	35	10.6	10.2	8.13	16.1	13.8	13	12.1	13	12.1	13	12.1
Manganese	mg/l	0.3	11.2	4.16	0.307	6.56	6.35	3	3.79	3	3.79	3	3.79
Sodium	mg/l	20	6.32	6.52	6.37	6.37	6.24	6.66	6.39	6.66	6.39	6.66	6.39
Nickel	mg/l	0.1	-	0.018	-	-	0.046	-	0.046	-	0.046	0.046	0.046
Lead	mg/l	0.025	0.026	0.026	<0.010	0.073	0.05	0.048	0.048	0.048	0.048	0.048	0.048
Antimony	mg/l	0.03	-	<0.020	-	-	<0.020	-	<0.020	-	<0.020	<0.020	<0.020
Thallium	mg/l	0.0005	<0.025	<0.025	<0.025	0.094	<0.025	0.087	0.11	0.087	0.11	0.087	0.11
Vanadium	mg/l		0.015	0.014	<0.010	0.048	0.027	0.023	0.017	0.023	0.017	0.023	0.017
Zinc	mg/l	2	0.065	0.047	0.008	0.145	0.123	0.065	0.062	0.065	0.062	0.065	0.062
Selenium	mg/l	0.01	-	<0.040	-	-	<0.040	-	<0.040	-	<0.040	<0.040	<0.040

Notes  
 1. Full analytical reports for the Target Compound List were analyzed but were not detected. Contaminants of concern plus Organic compounds listed herein are for the Methylene Chloride, which has been detected above standards in one sampling event.  
 2. Highlighted cell indicates compound detected above applicable regulatory limit.

Monitoring Well 12	Date Sampled	Units	Guidance Value	6/2/2009	9/19/2009	6/2/2009	2/17/2009	6/2/2009	6/2/2009	2/10/2010
				Acetylene (Note 1)	ug/l	5	<0.001			
Chloroethane	ug/l	1	<0.001							
1,2-Dichloropropane	ug/l	5	<0.001							
Methylene chloride	ug/l	5	<0.001							
o-Xylene	ug/l	5	<0.001							
m,p-Xylene	ug/l	5	<0.001							
Alkalinity as CaCO3	mg/l			66	120	96	66	96	96	88
Ammonia as N	mg/l	2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Biochemical Oxygen Demand-5	mg/l		<8	<8	<8	<8	<8	<8	<8	<8
Chloride	mg/l	250	5.67	4.79	8.35	5.23	8.08	5.23	8.08	8.08
Chemical Oxygen Demand	mg/l		32	<10	51	<10	<10	<10	<10	<10
Hazardous Chromium	mg/l		<0.01							
Nitrate as N	mg/l	10	<0.05	<0.05	0.08	0.19	<0.05	0.19	<0.05	<0.05
pH	pH Units	6.5-8.5	6.51	6.25	6.53	6.66	5.88	6.66	5.88	5.88
Phenol	mg/l	0.001	<0.025	<0.025	0.05	<0.025	<0.025	<0.025	<0.025	<0.025
Total Dissolved Solids	mg/l	500	25	52	553	276	128	276	128	128
Sulfate as SO4	mg/l	250	14.6	13.4	15.7	13.9	11.2	13.9	11.2	11.2
Total Kjeldahl Nitrogen	mg/l		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Organic Carbon	mg/l		1.4	1.3	3.2	2.2	0.9	2.2	0.9	0.9
Total Hardness as CaCO3	mg/l		144	38.5	217	124	30.2	217	124	30.2
Color	Color Units	5	<5							
Cyanide	mg/l	0.2	<0.010							
Bromide	mg/l	2	0.22	0.19	0.27	0.25	<0.05	0.25	<0.05	<0.05
Mercury	mg/l	0.0007	0.0002							
Silver	mg/l	0.05	0.004							
Aluminum	mg/l		80.9							
Arsenic	mg/l	0.025	0.102							
Boron	mg/l	1	<0.100							
Barium	mg/l	1	0.449							
Beryllium	mg/l	0.03	0.003							
Calcium	mg/l		31.9	9.49	43.2	26	7.39	43.2	26	7.39
Cadmium	mg/l	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt	mg/l		0.048							
Chromium	mg/l	0.05	0.066							
Copper	mg/l	0.2	0.151							
Iron	mg/l	0.3	45.6	2.67	138	61.9	1.57	138	61.9	1.57
Potassium	mg/l		3.19	0.647	5.53	3.17	0.747	5.53	3.17	0.747
Magnesium	mg/l	35	16.9	3.6	26.5	14.4	2.85	26.5	14.4	2.85
Manganese	mg/l	0.3	5.55	0.525	12.4	5.37	0.286	12.4	5.37	0.286
Sodium	mg/l	20	10.5	6.56	10.2	9.5	5.67	10.2	9.5	5.67
Nickel	mg/l	0.1	0.108							
Lead	mg/l	0.025	0.02	<0.010	0.075	0.027	<0.010	0.075	0.027	<0.010
Antimony	mg/l	0.03	<0.020							
Thallium	mg/l	0.0005	0.072	<0.025	0.043	<0.025	0.043	<0.025	0.043	<0.025
Vanadium	mg/l		0.026	<0.010	0.085	0.031	<0.010	0.085	0.031	<0.010
Zinc	mg/l	2	0.069	0.008	0.3	0.136	0.008	0.3	0.136	0.008
Selenium	mg/l	0.01	<0.040							

Notes  
 1 Full analytical reports for the Target Compound List were analyzed but were not detected. Contaminants of concern plus Organic compounds listed herein are for the Methylene Chloride, which has been detected above standards in one sampling event.  
 2 Highlighted cell indicates compound detected above applicable regulatory limit.

Monitoring Well 37	Units	Date Sampled:		Guidance Value	3/17/2008	6/24/2008	3/17/2008	5/3/2009	8/19/2009	6/21/2009	3/10/2010
		Units	Value								
Arsenic (Note 1)	ug/l	5	-	<0.005					<0.001		
Chloroethane	ug/l	1	-	<0.005					<0.001		
1,2-Dichloropropane	ug/l	5	-	<0.005					<0.001		
Methylene chloride	ug/l	5	-	<0.005					<0.001		
o-Xylene	ug/l	5	-	<0.005					<0.001		
m,p-Xylene	ug/l	5	-	<0.005					<0.001		
Alkalinity as CaCO3	mg/l		130	132	146	106	133	132	132	126	
Ammonia as N	mg/l	2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Biochemical Oxygen Demand-5	mg/l	250	5.88	6.29	6.04	7.54	8.9	8.56	8.22	8.22	
Chloride	mg/l		33	28	28	<10	48	<10	<10	<10	
Chemical Oxygen Demand	mg/l		-	<0.01			<0.01				
Hexavalent Chromium	mg/l	10	0.2	0.3	0.13	0.16	0.13	0.12	0.12	0.15	
Nitrate as N	mg/l		8.01	7.79	8.14	7.74	7.55	7.53	7.53	7.32	
pH	pH Units		6.5-8.5								
Phenol	mg/l	0.001	<0.025	<0.025	<0.025	<0.025	0.028	<0.025	<0.025	<0.025	
Total Dissolved Solids	mg/l	500	188	174	158	166	286	188	177	177	
Sulfate as SO4	mg/l	250	11.9	13.4	11.6	12.9	12.9	13.5	12.2	12.2	
Total Kjeldahl Nitrogen	mg/l		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Total Organic Carbon	mg/l		0.6	0.7	<0.5	<0.05	0.7	<0.5	0.8	0.8	
Total Hardness as CaCO3	mg/l		143	137	151	128	173	158	142	142	
Color	Color Units	5	-	12			<5				
Cyanide	mg/l	0.2	-	<0.010			<0.010				
Bromide	mg/l	2	<0.050	<0.25	<0.05	<0.05	<0.05	<0.05	0.1	0.07	
Mercury	mg/l	0.0007	-	<0.0002			<0.0002				
Silver	mg/l	0.05	-	<0.002			<0.002				
Aluminum	mg/l		-	8			26.1				
Arsenic	mg/l	0.025	-	<0.025			0.027				
Boron	mg/l	1	-	<0.100			<0.100				
Barium	mg/l	1	-	0.059			0.158				
Beryllium	mg/l	0.03	-	<0.001			<0.001				
Calcium	mg/l		44.8	41.3	43.4	40.7	44.6	42.8	43.7	43.7	
Cadmium	mg/l	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Cecliff	mg/l		-	<0.010			0.025				
Chromium	mg/l	0.05	-	0.019			0.058				
Copper	mg/l	0.2	-	0.016			0.035				
Iron	mg/l	0.3	9.27	17.3	19.1	0.556	56.2	5.25	11.9	11.9	
Potassium	mg/l		4.41	8.24	4.43	11	9.6	5.23	3.56	3.56	
Magnesium	mg/l	35	7.61	8.26	9.73	6.39	15.1	7.34	7.85	7.85	
Manganese	mg/l	0.3	0.373	0.367	0.4	0.025	1.18	0.14	0.255	0.255	
Sodium	mg/l	20	8.62	9.65	7.99	10.3	8.97	9.26	7.68	7.68	
Nickel	mg/l	0.1	-	0.015			0.053				
Lead	mg/l	0.025	<0.010	<0.010	<0.010	<0.010	<0.026	<0.010	<0.010	<0.010	
Antimony	mg/l	0.03	-	<0.020			<0.020				
Thallium	mg/l	0.0005	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	
Vanadium	mg/l		<0.010	0.012	0.013	<0.010	0.034	<0.010	<0.010	<0.010	
Zinc	mg/l	2	0.03	0.04	0.046	0.007	0.135	0.019	0.031	0.031	
Selenium	mg/l	0.01	-	<0.040			<0.040				

Notes  
 1. Full analytical reports for the Target Compound List were analyzed but were not detected.  
 2. The following table lists the Target Compound List items which have been detected in the monitoring wells. The items which have been detected are listed in bold text. The items which have not been detected are listed in regular text. The items which have been detected are listed in regular text. The items which have not been detected are listed in regular text.  
 3. Highlighted cell indicates compound detected above applicable regulatory limit.

Monitoring Well 38D	Units	Date Sampled		3/17/2008	6/24/2008	3/17/2009	6/2/2009	8/19/2009	10/21/2009	3/10/2010
		Units	Conductance Value							
Analyte (Note 1)										
Chloroethane	ug/l	5	<0.005					<0.001		
1,2-Dichloroethane	ug/l	1	<0.005					<0.001		
Methylene chloride	ug/l	5	<0.005					<0.001		
o-Xylene	ug/l	5	<0.005					<0.001		
m,p-Xylene	ug/l	5	<0.005					<0.001		
Alkalinity as CaCO3	mg/l	202	160	159	123	182	182	182	182	182
Ammonia as N	mg/l	0.1	<0.1	0.1	<0.1	0.2	<0.1	0.2	<0.1	<0.1
Biochemical Oxygen Demand-5	mg/l	<6	<6	<6	<6	<6	<6	<6	<6	<6
Chloride	mg/l	250	11.1	8.78	10.1	8.58	7.74	10.8	10.8	10.1
Chemical Oxygen Demand	mg/l	139	151	23	<10	171	28	18		
Hexavalent Chromium	mg/l		<0.01							
Nitrate as N	mg/l	10	0.13	<0.05	0.2	0.08	<0.05	0.13	0.13	0.2
pH		6.5-8.5	8.38	7.7	8.09	7.76	7.58	7.62	7.62	7.63
Phenol	mg/l	0.001	<0.025	<0.025	<0.025	0.07	0.327	0.046		
Total Dissolved Solids	mg/l	500	245	181	169	169	420	405	207	207
Sulfate as SO4	mg/l	250	9	5.4	7.39	5.74	5.72	7.29	8.62	8.62
Total Kjeldahl Nitrogen	mg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Organic Carbon	mg/l	0.9	0.5	0.6	<0.5	1.4	0.7	0.8		
Total Hardness as CaCO3	mg/l	477	379	360	256	778	757	397		
Color	Color Units	5	12			17				
Chloride	mg/l	0.2	<0.010			<0.010				
Bromine	mg/l	2	<0.25	<0.25	0.1	0.09	0.09	0.15	0.15	0.11
Mercury	mg/l	0.0007		<0.0002			0.0004			
Silver	mg/l	0.05		<0.002			0.013			
Aluminum	mg/l			118			276			
Arsenic	mg/l	0.025		0.098		0.175				
Boron	mg/l	1	<0.100			<0.500				
Barium	mg/l	1	0.84			2.27				
Beryllium	mg/l	0.03		0.005		0.013				
Calcium	mg/l	78.6	55.9	53.3	50.6	85.7	79	72.2		
Cadmium	mg/l	0.005	0.016	0.002	0.026	<0.001	0.005	<0.009	<0.005	
Cobalt	mg/l			0.117		0.321				
Chromium	mg/l	0.05		0.142		0.36				
Copper	mg/l	0.2		0.181		0.452				
Iron	mg/l	0.3	324	289	278	123	851	671	250	
Potassium	mg/l	11.5	10.1	9.7	7.14	14.7	12.3	12.3	6.97	
Magnesium	mg/l	35	87.5	58.1	59.9	31.6	131	136	52.8	
Manganese	mg/l	0.3	13.2	6.64	8.28	4.32	24.8	19.8	11.2	
Sodium	mg/l	20	40.0	38.3	37.3	34	27.5	34.9	36.2	
Nickel	mg/l	0.1	0.253			0.694				
Lead	mg/l	0.025	0.165	0.142	0.119	0.057	0.35	0.326	0.132	
Antimony	mg/l	0.03		<0.020		<0.100				
Thallium	mg/l	0.0005	<0.025	<0.025	<0.125	0.065	<0.125	0.259	0.271	
Vanadium	mg/l	0.180	0.139	0.134	0.07	0.321	0.286	0.112		
Zinc	mg/l	2	0.724	0.661	0.631	0.293	1.67	1.8	0.565	
Selenium	mg/l	0.01	<0.040			<0.200				

**Notes**  
 1. Full analytical reports for the Target Compound List were analyzed but were not detected.  
 Contaminants of concern plus Organic compounds listed herein are for the Methylene Chloride,  
 which has been detected above standards in one sampling event.  
 2. Highlighted cell indicates compound detected above applicable regulatory limit.



Shumaker Consulting Engineering and Land Surveying, P.C.  
 Analytical History for the Cantlin Landfill  
 SCE Project 08/28/00

Analyte (Note 1)	Units	Date Sampled		Guidance Value	3/17/2008	6/3/2008	8/19/2008	10/21/2008
		Units	Value					
Chloroethane	ug/l	5		<0.001			<0.001	
1,2-Dichloropropane	ug/l	1		<0.001			<0.001	
Methylene chloride	ug/l	5		<0.001			<0.001	
o-Xylene	ug/l	5		<0.001			<0.001	
m,p-Xylene	ug/l	5		<0.001			<0.001	
Alkalinity as CaCO3	mg/l		18	48	57	50		
Ammonia as N	mg/l	2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Biochemical Oxygen Demand-5	mg/l	250	48	48	48	44.9	48	44.9
Chloride	mg/l	250	41.3	28.8	48	44.9	48	44.9
Chemical Oxygen Demand	mg/l		37	11	8	<10		
Hexavalent Chromium	mg/l						<0.01	
Nitrate as N	mg/l	10	0.36	0.98	0.98	0.05	0.16	
pH	pH Units	6.5-8.5	7.31	7	6.88	7.23		
Phenol	mg/l	0.001	<0.025	<0.025	<0.025	<0.025	<0.025	
Total Dissolved Solids	mg/l	500	92	11	240	160		
Sulfate as SO4	mg/l	250	10.3	8.88	10.4	10.9		
Total Kjeldahl Nitrogen	mg/l		<1.0	<1.0	<1.0	<1.0		
Total Organic Carbon	mg/l		1.6	2.2	1.8	1.8		
Total Hardness as CaCO3	mg/l		36.2	48	57	50		
Color	Color Units	5			<5			
Cyanide	mg/l	0.2			<0.010			
Bromide	mg/l	2	<0.05	<0.05	0.05	<0.05		
Mercury	mg/l	0.0007			<0.0002			
Silver	mg/l	0.05			<0.002			
Aluminum	mg/l				0.625			
Arsenic	mg/l	0.025			<0.025			
Boron	mg/l	1			<0.100			
Barium	mg/l	1			0.05			
Beryllium	mg/l	0.03			<0.0001			
Calcium	mg/l		10.8	11.9	21.5	18.2		
Cadmium	mg/l	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	
Cobalt	mg/l				<0.010			
Chromium	mg/l	0.05			<0.010			
Copper	mg/l	0.2			<0.010			
Iron	mg/l	0.3	0.11	0.024	3.19	<0.020		
Potassium	mg/l		1.16	1.4	3.99	1.72		
Lithium	mg/l	35	2.24	2.75	5.01	4.28		
Manganese	mg/l	0.3	0.003	0.003	0.654	0.006		
Sodium	mg/l	20	22.1	21	26.6	25		
Nickel	mg/l	0.1			<0.010			
Lead	mg/l	0.025	<0.010	<0.010	<0.010	0.328		
Antimony	mg/l	0.03			<0.020			
Thallium	mg/l	0.0005	<0.025	<0.025	<0.025	<0.025		
Vanadium	mg/l		<0.010	<0.010	<0.010	<0.010		
Zinc	mg/l	2	<0.005	<0.005	0.012	1.8		
Selenium	mg/l	0.01			<0.040			

Notes  
 1. Full analytical reports for the Target Compound List were analyzed but were not detected.  
 Contaminants of concern plus Organic compounds listed herein are for the Methylene Chloride,  
 which has been detected above standards in one sampling event.



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REPORT OF ANALYSES

Binghamton-Johnson City JSTP  
4480 Old Vestal Road  
Vestal, NY 13850-  
Attn: Ms. Cathy Aingworth

PROJECT NAME: PreTreatment Annual Sampling  
DATE: 09/11/2009

SAMPLE NUMBER- 570136 SAMPLE ID- Conklin Landfill  
DATE SAMPLED- 08/19/09  
DATE RECEIVED- 08/25/09 SAMPLER- Ed Pepe  
TIME RECEIVED- 1354 DELIVERED BY- T. Thompson

SAMPLE MATRIX- WW  
TIME SAMPLED- 0800  
RECEIVED BY- RS  
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		08/25/09		RS	3.0	Degrees C
AMMONIA AS N	SM18 4500F	08/31/09	1505	JDC	0.14	mg/L
TOTAL KJELDAHL NITROGEN	SM18-4500F	08/28/09	1000	JDC	< 0.5	mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

(Terms and Conditions on Reverse Side)

Patrick A. Leone, Jr.  
Laboratory Director

The analytical results on this sample are representative of the sample as received by the Laboratory.



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Vestal, NY 13850-  
Attn: Ms. Cathy Aingworth

PROJECT NAME: PreTreatment Annual Sampling  
DATE: 09/11/2009

SAMPLE NUMBER- 570137 SAMPLE ID- Conklin Landfill  
DATE SAMPLED- 08/19/09  
DATE RECEIVED- 08/25/09 SAMPLER- Ed Pepe  
TIME RECEIVED- 1354 DELIVERED BY- T. Thompson

SAMPLE MATRIX- WW  
TIME SAMPLED- 0800  
RECEIVED BY- RS  
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	SAMPLE PREP DATE	ANALYSIS BY DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature			08/25/09		RS	3.0	Degrees C
Total Cyanide	SM18-4500E	08/27/09	JDC 08/27/09	1945	JDC	< 0.005	mg/L

NYSDOH LAB ID NO. 11246

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Binghamton-Johnson City JSTP  
4480 Old Vestal Road  
Vestal, NY 13850-  
Attn: Ms. Cathy Aingworth

PROJECT NAME: PreTreatment Annual Sampling  
DATE: 09/11/2009

SAMPLE NUMBER- 570138 SAMPLE ID- Conklin Landfill  
DATE SAMPLED- 08/19/09  
DATE RECEIVED- 08/25/09 SAMPLER- Ed Pepe  
TIME RECEIVED- 1354 DELIVERED BY- T. Thompson

SAMPLE MATRIX- WW  
TIME SAMPLED- 0800  
RECEIVED BY- RS  
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		08/25/09		RS	3.0	Degrees C
TOTAL SUSPENDED SOLIDS	SM18-2540D	08/25/09	1710	SJA	22.	mg/L

NYSDOH LAB ID NO. 11246

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Binghamton-Johnson City JSTP  
4480 Old Vestal Road  
Vestal, NY 13850-  
Attn: Ms. Cathy Aingworth

PROJECT NAME: PreTreatment Annual Sampling  
DATE: 09/11/2009

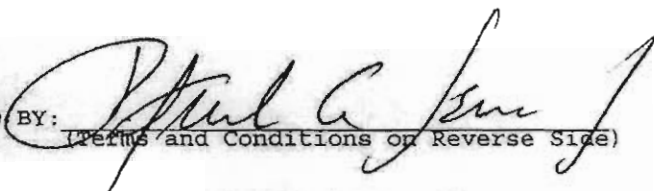
SAMPLE NUMBER- 570139 SAMPLE ID- Conklin Landfill  
DATE SAMPLED- 08/19/09  
DATE RECEIVED- 08/25/09 SAMPLER- Ed Pepe  
TIME RECEIVED- 1354 DELIVERED BY- T. Thompson

SAMPLE MATRIX- WW  
TIME SAMPLED- 0800  
RECEIVED BY- RS  
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Arsenic, Total (As)	EPA 200.7	09/01/09	AG	09/09/09		AG	< 0.02	mg/L
Cadmium, Total (Cd)	EPA 200.7	09/01/09	AG	09/09/09		AG	< 0.02	mg/L
Chromium, Total (Cr)	EPA 200.7	09/01/09	AG	09/09/09		AG	< 0.02	mg/L
Copper, Total (Cu)	EPA 200.7	09/01/09	AG	09/09/09		AG	0.09	mg/L
Iron, Total (Fe)	EPA 200.7	09/01/09	AG	09/09/09		AG	4.4	mg/L
Lead, Total (Pb)	EPA 200.7	09/01/09	AG	09/09/09		AG	0.02	mg/L
MERCURY, TOTAL (HG)	EPA 245.1			09/07/09	1900	DG	< 0.0008	mg/L
Nickel, Total (Ni)	EPA 200.7	09/01/09	AG	09/09/09		AG	< 0.02	mg/L
Silver, Total (Ag)	EPA 200.7	09/01/09	AG	09/09/09		AG	< 0.01	mg/L
Zinc, Total (Zn)	EPA 200.7	09/01/09	AG	09/09/09		AG	0.09	mg/L

NYSDOH LAB ID NO. 11246

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REPORT OF ANALYSES

Binghamton-Johnson City JSTP  
4480 Old Vestal Road  
Vestal, NY 13850-  
Attn: Ms. Cathy Aingworth

PROJECT NAME: PreTreatment Annual Sampling  
DATE: 09/11/2009

SAMPLE NUMBER- 570140 SAMPLE ID- Conklin Landfill  
DATE SAMPLED- 08/19/09  
DATE RECEIVED- 08/25/09 SAMPLER- Ed Pepe  
TIME RECEIVED- 1354 DELIVERED BY- T. Thompson

SAMPLE MATRIX- WW  
TIME SAMPLED- 0800  
RECEIVED BY- RS  
TYPE SAMPLE- Grab

Page 1 of 2

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		08/25/09		RS	3.0 Degrees C
EPA 624 Volatiles	EPA 624	09/01/09		RRB	
Dichlorodifluoromethane	EPA 624	09/01/09		RRB	< 2.0 ug/L
Chloromethane	EPA 624	09/01/09		RRB	< 5.0 ug/L
Vinyl Chloride	EPA 624	09/01/09		RRB	< 2.0 ug/L
Bromomethane	EPA 624	09/01/09		RRB	< 5.0 ug/L
Chloroethane	EPA 624	09/01/09		RRB	< 5.0 ug/L
Trichlorofluoromethane	EPA 624	09/01/09		RRB	< 1.0 ug/L
1,1-Dichloroethene	EPA 624	09/01/09		RRB	< 1.0 ug/L
Methylene Chloride	EPA 624	09/01/09		RRB	< 5.0 ug/L
trans-1,2-Dichloroethene	EPA 624	09/01/09		RRB	< 1.0 ug/L
1,1-Dichloroethane	EPA 624	09/01/09		RRB	< 1.0 ug/L
2-Butanone (MEK)	EPA 624	09/01/09		RRB	< 5.0 ug/L
Chloroform	EPA 624	09/01/09		RRB	< 1.0 ug/L
1,1,1-Trichloroethane	EPA 624	09/01/09		RRB	< 1.0 ug/L
Carbon Tetrachloride	EPA 624	09/01/09		RRB	< 1.0 ug/L
1,2-Dichloroethane	EPA 624	09/01/09		RRB	< 1.0 ug/L
Benzene	EPA 624	09/01/09		RRB	< 1.0 ug/L
Trichloroethene	EPA 624	09/01/09		RRB	< 1.0 ug/L
1,2-Dichloropropane	EPA 624	09/01/09		RRB	< 1.0 ug/L
Bromodichloromethane	EPA 624	09/01/09		RRB	< 1.0 ug/L

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Page 2 of 2

CONTINUATION OF DATA FOR SAMPLE NUMBER 570140

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
2-Chloroethylvinyl Ether	EPA 624	09/01/09		RRB	< 5.0	ug/L
4-Methyl-2-Pentanone (MIBK)	EPA 624	09/01/09		RRB	< 5.0	ug/L
cis-1,3-Dichloropropene	EPA 624	09/01/09		RRB	< 1.0	ug/L
Toluene	EPA 624	09/01/09		RRB	< 1.0	ug/L
trans-1,3-Dichloropropene	EPA 624	09/01/09		RRB	< 1.0	ug/L
1,1,2-Trichloroethane	EPA 624	09/01/09		RRB	< 1.0	ug/L
Tetrachloroethene	EPA 624	09/01/09		RRB	< 1.0	ug/L
Dibromochloromethane	EPA 624	09/01/09		RRB	< 1.0	ug/L
Chlorobenzene	EPA 624	09/01/09		RRB	< 1.0	ug/L
Ethylbenzene	EPA 624	09/01/09		RRB	< 1.0	ug/L
m & p-Xylene	EPA 624	09/01/09		RRB	< 1.0	ug/L
o-Xylene	EPA 624	09/01/09		RRB	< 1.0	ug/L
Bromoform	EPA 624	09/01/09		RRB	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	EPA 624	09/01/09		RRB	< 1.0	ug/L
1,3-Dichlorobenzene	EPA 624	09/01/09		RRB	< 1.0	ug/L
1,4-Dichlorobenzene	EPA 624	09/01/09		RRB	< 1.0	ug/L
1,2-Dichlorobenzene	EPA 624	09/01/09		RRB	< 1.0	ug/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

(Terms and Conditions on Reverse Side)

Patrick A. Leone, Jr.  
Laboratory Director

The analytical results on this sample are representative of the sample as received by the Laboratory.



**Certified  
Environmental  
Services, Inc.**

1401 Erie Blvd. East  
Syracuse, NY 13210  
Phone 315-478-2374  
Fax 315-478-2107

REPORT OF ANALYSES

Binghamton-Johnson City JSTP  
4480 Old Vestal Road  
Vestal, NY 13850-  
Attn: Ms. Cathy Aingworth

PROJECT NAME: PreTreatment Annual Sampling  
DATE: 09/11/2009

SAMPLE NUMBER- 570141 SAMPLE ID- Conklin Landfill  
DATE SAMPLED- 08/19/09  
DATE RECEIVED- 08/25/09 SAMPLER- Ed Pepe  
TIME RECEIVED- 1354 DELIVERED BY- T. Thompson

SAMPLE MATRIX- WW  
TIME SAMPLED- 0800  
RECEIVED BY- RS  
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		08/25/09		RS	3.0	Degrees C
Oil & Grease (LLE)	EPA 1664A	08/31/09		SJA	< 5.0	mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

(Terms and Conditions on Reverse Side)

Patrick A. Leone, Jr.  
Laboratory Director

The analytical results on this sample are representative of the sample as received by the Laboratory.





Certified Environmental Services, Inc.  
 1401 Erie Blvd. East  
 Syracuse, NY 13210

Phone: 315-478-2374

Fax: 315-478-2107

# CHAIN OF CUSTODY RECORD

BATCH NO: 130639 Page 1 of 1

Turn-Around Time:  
 Standard  
 1 Week  
 72 Hours  
 48 Hours  
 24 Hours

PROJECT NUMBER/NAME: PRE-TREATMENT ANNUAL SAMPLING

ADDRESS: One Remington Park Drive  
 Cazenovia, NY

PHONE: 315-655-0661

FAX: 315-655-4150

CONTACT NAME: Ed Pope

PURCHASE ORDER NO:

Signature: *Ed Pope*

LAB USE ONLY	CES Sample Numbers	Collected		TYPE	MATRIX			CLIENT ID/SAMPLE LOCATION	TOTAL NUMBER OF CONTAINERS	PARAMETERS FOR ANALYSIS
		Date	Time		Comp	Grab	Aqueous			
	130639	8/19	0800	X	X			Corklin-1, Corklin Landfill	1	Asbestos TKN Cyanide TSS ROD-5 Metals Dioxin/Chlorse
		8/19	0800	X	X			Corklin-2, Corklin Landfill	1	
		8/19	0800	X	X			Corklin-3, Corklin Landfill	1	
		8/19	0800	X	X			Corklin-4, Corklin Landfill	1	
		8/19	0800	X	X			Corklin-5, Corklin Landfill	1	
		8/19	0800	X	X			Corklin-6, Corklin Landfill	1	
		8/19	0800	X	X			Corklin-7, Corklin Landfill	2	
		8/19	0800	X	X			Corklin-8, Corklin Landfill	1	
SPECIAL REMARKS:										
<p>Box moved, we held time taken to have a record of it.</p>										

SAMPLES RELINQUISHED BY:  
 NAME: *Charles Lee* DATE: 8/19 TIME: 16:30  
 SIGNATURE: *[Signature]*

SAMPLES RECEIVED BY:  
 NAME: *Theresa Thompson* DATE: 8/25/09 TIME: 12:00  
 SIGNATURE: *[Signature]*

Temperature: 5 °C

Samples Received in Good Condition:  Yes  No

DATE: 8/25/09 TIME: 13:51



# TOWN OF CONKLIN

1271 Conklin Road • P.O. Box 182 • Conklin, New York 13748

Phone (607) 775-4114 • Fax (607) 775-1434

November 17, 2009

Binghamton-Johnson City Sewage Board  
4480 Old Vestal Road  
Vestal, NY 13850

Attn: Catherine P. Aingworth

The Town of Conklin on November 18 thru November 20<sup>th</sup> 2009 discharged approximately 18,600 gallons of leachate from the Town of Conklin Landfill into the sewage system. Time of discharge will be 9:00 am.

Regards,

Thomas P. Delamarter  
Water/Sewer Superintendent

LAB ID # 11216  
LAB ID # 11827

# Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave.  
Sayre, PA 18840

Phone: (570) 888-0169  
Fax: (570) 888-0717

Work Order: 09032090

SEND DATA TO:

NAME: Tom Delamarter  
COMPANY: Conklin, Town of  
ADDRESS: P.O. Box 182  
Conklin, NY 13748

WO#: 09032090

PAGE: 1 of 18

PO#:

PHONE: (607) 775-4584  
FAX: (607) 775-1434

## TEST REPORT

PWS ID# Broome Co. DOH

Landfill

RECEIVED FOR LAB BY: NAD

DATE: 03/18/2009 10:52

Page 1 of 18

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
SAMPLE: MW-3 Lab ID: 09032090-001A Grab						
SAMPLED BY: FC Sample Time: 03/17/2009 14:00						
Hardness, Calculation	2099 mg/L	EPA 200.7	0.373	03/19/09 7:45	03/25/09	GSR-CV
SAMPLE: MW-3 Lab ID: 09032090-001B Grab						
SAMPLED BY: FC Sample Time: 03/17/2009 14:00						
Bromide	0.11 mg/L	EPA 300.0	0.05	03/20/09 16:39	03/20/09	LNP-CV
SAMPLE: MW-3 Lab ID: 09032090-001C Grab						
SAMPLED BY: FC Sample Time: 03/17/2009 14:00						
BOD	< 6 mg/L	SM5210B	6	03/18/09 12:00	03/23/09	RHN-SA
pH	6.74@25.2°C	K SM4500H+B		03/19/09 9:20	03/19/09	NFM-SA
SAMPLE: MW-3 Lab ID: 09032090-001D Grab						
SAMPLED BY: FC Sample Time: 03/17/2009 14:00						
Ammonia as N	0.1 mg/L	Lachat	0.1	03/19/09 0:00	03/19/09	CMD-SA
Chemical Oxygen Demand	23 mg/L	HACH 8000	10	03/19/09 9:10	03/19/09	JLK-SA
SAMPLE: MW-3 Lab ID: 09032090-001E Grab						
SAMPLED BY: FC Sample Time: 03/17/2009 14:00						
Alkalinity as CaCO3	168 mg/L	SM2320B	2	03/23/09 8:45	03/23/09	JLK-SA

REMARKS:

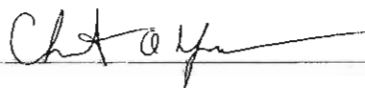
Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

\* CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

E Value above quantitation range

K Sample was received past holding time.

MANAGER



DATE: 3/30/2009

LAB ID # 11216  
LAB ID # 11827

# Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave.  
Sayre, PA 18840

Phone: (570) 888-0169  
Fax: (570) 888-0717

Work Order: 09032090

SEND DATA TO:

NAME: Tom Delamarter  
COMPANY: Conklin, Town of  
ADDRESS: P.O. Box 182  
Conklin, NY 13748

WO#: 09032090

PAGE: 2 of 18

PO#:

PWS ID# Broome Co. DOH

PHONE: (607) 775-4584  
FAX: (607) 775-1434

## TEST REPORT

Landfill

RECEIVED FOR LAB BY: NAD

DATE: 03/18/2009 10:52

Page 2 of 18

SAMPLE: **MW-3**

Lab ID: 09032090-001F

Grab

SAMPLED BY: FC

Sample Time: 03/17/2009 14:00

SLOQ

Test	Result	Method		Analysis Start	Analysis End	Analyst *
Chloride	20.6 mg/L	EPA 300.0	0.25	03/19/09 17:00	03/20/09	LNP-CV
Sulfate	18.6 mg/L	EPA 300.0	0.25	03/19/09 17:00	03/20/09	LNP-CV

SAMPLE: **MW-3**

Lab ID: 09032090-001G

Grab

SAMPLED BY: FC

Sample Time: 03/17/2009 14:00

SLOQ

Test	Result	Method		Analysis Start	Analysis End	Analyst *
Nitrate as N	< 0.05 mg/L	EPA 353.2	0.05	03/18/09 11:54	03/18/09	IC-SA
Total Dissolved Solids	70 mg/L	SM2540C	10	03/23/09 8:00	03/25/09	NFM-SA

SAMPLE: **MW-3**

Lab ID: 09032090-001H

Grab

SAMPLED BY: FC

Sample Time: 03/17/2009 14:00

SLOQ

Test	Result	Method		Analysis Start	Analysis End	Analyst *
Cadmium	0.034 mg/L	EPA 200.7	0.017	03/19/09 7:45	03/25/09	GSR-CV
Calcium	205 mg/L	E EPA 200.7	1.70	03/19/09 7:45	03/25/09	GSR-CV
Iron	1970 mg/L	E EPA 200.7	0.340	03/19/09 7:45	03/25/09	GSR-CV
Lead	1.33 mg/L	EPA 200.7	0.170	03/19/09 7:45	03/25/09	GSR-CV
Magnesium	386 mg/L	E EPA 200.7	0.510	03/19/09 7:45	03/25/09	GSR-CV
Manganese	74.5 mg/L	EPA 200.7	0.322	03/19/09 7:45	03/26/09	GSR-CV
Potassium	34.3 mg/L	EPA 200.7	9.35	03/19/09 7:45	03/25/09	GSR-CV
Sodium	22.9 mg/L	EPA 200.7	9.35	03/19/09 7:45	03/25/09	GSR-CV
Thallium	< 0.425 mg/L	EPA 200.7	0.425	03/19/09 7:45	03/25/09	GSR-CV
Vanadium	1.10 mg/L	EPA 200.7	0.170	03/19/09 7:45	03/25/09	GSR-CV
Zinc	6.32 mg/L	EPA 200.7	0.085	03/19/09 7:45	03/25/09	GSR-CV

REMARKS:

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E Value above quantitation range

K Sample was received past holding time.

MANAGER

DATE: 3/30/2009

LAB ID # 11216  
LAB ID # 11827

**Benchmark Analytics, Inc.**  
**Eastern Division**

2566 Pennsylvania Ave.  
Sayre, PA 18840

Phone: (570) 888-0169  
Fax: (570) 888-0717

Work Order: 09032090

SEND DATA TO:

NAME: Tom Delamarter  
COMPANY: Conklin, Town of  
ADDRESS: P.O. Box 182  
Conklin, NY 13748

WO#: 09032090

PAGE: 3 of 18

PO#:

PWS ID# Broome Co. DOH

PHONE: (607) 775-4584  
FAX: (607) 775-1434

**TEST REPORT**

Landfill

RECEIVED FOR LAB BY: NAD

DATE: 03/18/2009 10:52

Page 3 of 18

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
SAMPLE: MW-3 Lab ID: 09032090-001I Grab						
SAMPLED BY: FC Sample Time: 03/17/2009 14:00						
Phenol	< 0.025 mg/L	EPA 420.4	0.025	03/29/09 8:45	03/23/09	CMD-SA
SAMPLE: MW-3 Lab ID: 09032090-001J Grab						
SAMPLED BY: FC Sample Time: 03/17/2009 14:00						
Total Kjeldahl Nitrogen	2.0 mg/L	Lachat	1.0	03/24/09 9:51	03/24/09	RHN-SA
SAMPLE: MW-3 Lab ID: 09032090-001K Grab						
SAMPLED BY: FC Sample Time: 03/17/2009 14:00						
Total Organic Carbon	2.1 mg/L	SM5310C	0.5	03/24/09 9:00	03/24/09	JLK-SA
SAMPLE: MW-12 Lab ID: 09032090-002A Grab						
SAMPLED BY: FC Sample Time: 03/17/2009 10:45						
Hardness, Calculation	144 mg/L	EPA 200.7	0.373	03/19/09 7:45	03/25/09	GSR-CV
SAMPLE: MW-12 Lab ID: 09032090-002B Grab						
SAMPLED BY: FC Sample Time: 03/17/2009 10:45						
Bromide	0.22 mg/L	EPA 300.0	0.05	03/20/09 16:39	03/20/09	LNP-CV
SAMPLE: MW-12 Lab ID: 09032090-002C Grab						
SAMPLED BY: FC Sample Time: 03/17/2009 10:45						
BOD	< 6 mg/L	SM5210B	6	03/18/09 12:00	03/23/09	RHN-SA

REMARKS:

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MANAGER

DATE: 3/30/2009

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LAB ID # 11827

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Work Order: 09032090

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Conklin, NY 13748

WO#: 09032090

PAGE: 4 of 18

PO#:

PWS ID# Broome Co. DOH

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## TEST REPORT

Landfill

RECEIVED FOR LAB BY: NAD

DATE: 03/18/2009 10:52

Page 4 of 18

pH	6.51@25.3°C	K	SM4500H+B	03/19/09 9:20	03/19/09	NFM-SA
SAMPLE: MW-12 Lab ID: 09032090-002D Grab						
SAMPLED BY: FC Sample Time: 03/17/2009 10:45						
<u>SLOQ</u>						
<u>Test</u>	<u>Result</u>	<u>Method</u>		<u>Analysis Start</u>	<u>Analysis End</u>	<u>Analyst *</u>
Ammonia as N	< 0.1 mg/L	Lachat	0.1	03/19/09 0:00	03/19/09	CMD-SA
Chemical Oxygen Demand	32 mg/L	HACH 8000	10	03/19/09 9:10	03/19/09	JLK-SA
SAMPLE: MW-12 Lab ID: 09032090-002E Grab						
SAMPLED BY: FC Sample Time: 03/17/2009 10:45						
<u>SLOQ</u>						
<u>Test</u>	<u>Result</u>	<u>Method</u>		<u>Analysis Start</u>	<u>Analysis End</u>	<u>Analyst *</u>
Alkalinity as CaCO3	66 mg/L	SM2320B	2	03/23/09 8:45	03/23/09	JLK-SA
SAMPLE: MW-12 Lab ID: 09032090-002F Grab						
SAMPLED BY: FC Sample Time: 03/17/2009 10:45						
<u>SLOQ</u>						
<u>Test</u>	<u>Result</u>	<u>Method</u>		<u>Analysis Start</u>	<u>Analysis End</u>	<u>Analyst *</u>
Chloride	5.67 mg/L	EPA 300.0	0.25	03/19/09 17:00	03/20/09	LNP-CV
Sulfate	14.6 mg/L	EPA 300.0	0.25	03/19/09 17:00	03/20/09	LNP-CV
SAMPLE: MW-12 Lab ID: 09032090-002G Grab						
SAMPLED BY: FC Sample Time: 03/17/2009 10:45						
<u>SLOQ</u>						
<u>Test</u>	<u>Result</u>	<u>Method</u>		<u>Analysis Start</u>	<u>Analysis End</u>	<u>Analyst *</u>
Nitrate as N	< 0.05 mg/L	EPA 353.2	0.05	03/18/09 11:54	03/18/09	IC-SA
Total Dissolved Solids	25 mg/L	SM2540C	10	03/23/09 8:00	03/25/09	NFM-SA
SAMPLE: MW-12 Lab ID: 09032090-002H Grab						
SAMPLED BY: FC Sample Time: 03/17/2009 10:45						
<u>SLOQ</u>						
<u>Test</u>	<u>Result</u>	<u>Method</u>		<u>Analysis Start</u>	<u>Analysis End</u>	<u>Analyst *</u>
Cadmium	< 0.001 mg/L	EPA 200.7	0.001	03/19/09 7:45	03/23/09	RMD-CV

REMARKS:

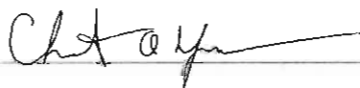
Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

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E Value above quantitation range

K Sample was received past holding time.

MANAGER



DATE: 3/30/2009

LAB ID # 11216  
LAB ID # 11827

# Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave.  
Sayre, PA 18840

Phone: (570) 888-0169  
Fax: (570) 888-0717

Work Order: 09032090

SEND DATA TO:

NAME: Tom Delamarter  
COMPANY: Conklin, Town of  
ADDRESS: P.O. Box 182  
Conklin, NY 13748

WO#: 09032090

PAGE: 5 of 18

PO#:

PWS ID# Broome Co. DOH

PHONE: (607) 775-4584  
FAX: (607) 775-1434

## TEST REPORT

Landfill

RECEIVED FOR LAB BY: NAD

DATE: 03/18/2009 10:52

Page 5 of 18

Element	Concentration	Method	Result	Analysis Date	Analysis Date	Analyst
Calcium	31.9 mg/L	EPA 200.7	0.100	03/19/09 7:45	03/23/09	RMD-CV
Iron	45.8 mg/L	EPA 200.7	0.020	03/19/09 7:45	03/23/09	RMD-CV
Lead	0.020 mg/L	EPA 200.7	0.010	03/19/09 7:45	03/24/09	GSR-CV
Magnesium	15.5 mg/L	EPA 200.7	0.270	03/19/09 7:45	03/24/09	GSR-CV
Manganese	5.55 mg/L	EPA 200.7	0.018	03/19/09 7:45	03/24/09	GSR-CV
Potassium	3.19 mg/L	EPA 200.7	0.550	03/19/09 7:45	03/24/09	GSR-CV
Sodium	10.5 mg/L	EPA 200.7	0.550	03/19/09 7:45	03/24/09	GSR-CV
Thallium	0.072 mg/L	EPA 200.7	0.025	03/19/09 7:45	03/23/09	RMD-CV
Vanadium	0.026 mg/L	EPA 200.7	0.010	03/19/09 7:45	03/24/09	GSR-CV
Zinc	0.099 mg/L	EPA 200.7	0.005	03/19/09 7:45	03/24/09	GSR-CV

SAMPLE: MW-12

Lab ID: 09032090-002I

Grab

SAMPLED BY: FC

Sample Time: 03/17/2009 10:45

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Phenol	< 0.025 mg/L	EPA 420.4	0.025	03/29/09 8:45	03/23/09	CMD-SA

SAMPLE: MW-12

Lab ID: 09032090-002J

Grab

SAMPLED BY: FC

Sample Time: 03/17/2009 10:45

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Total Kjeldahl Nitrogen	< 1.0 mg/L	Lachat	1.0	03/24/09 9:51	03/24/09	RHN-SA

SAMPLE: MW-12

Lab ID: 09032090-002K

Grab

SAMPLED BY: FC

Sample Time: 03/17/2009 10:45

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Total Organic Carbon	1.4 mg/L	SM5310C	0.5	03/24/09 9:00	03/24/09	JLK-SA

### REMARKS:

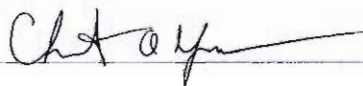
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K Sample was received past holding time.

MANAGER



DATE: 3/30/2009

LAB ID # 11216  
LAB ID # 11827

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2566 Pennsylvania Ave.  
Sayre, PA 18840

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Work Order: 09032090

SEND DATA TO:

NAME: Tom Delamarter  
COMPANY: Conklin, Town of  
ADDRESS: P.O. Box 182  
Conklin, NY 13748

WO#: 09032090

PAGE: 6 of 18

PO#:

PHONE: (607) 775-4584  
FAX: (607) 775-1434

## TEST REPORT

PWS ID# Broome Co. DOH

Landfill

RECEIVED FOR LAB BY: NAD

DATE: 03/18/2009 10:52

Page 6 of 18

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
SAMPLE: MW-4 Lab ID: 09032090-003A Grab						
SAMPLED BY: FC Sample Time: 03/17/2009 12:50						
Hardness, Calculation	111 mg/L	EPA 200.7	0.373	03/19/09 7:45	03/25/09	GSR-CV
SAMPLE: MW-4 Lab ID: 09032090-003B Grab						
SAMPLED BY: FC Sample Time: 03/17/2009 12:50						
Bromide	< 0.05 mg/L	EPA 300.0	0.05	03/20/09 16:39	03/20/09	LNP-CV
SAMPLE: MW-4 Lab ID: 09032090-003C Grab						
SAMPLED BY: FC Sample Time: 03/17/2009 12:50						
BOD	< 6 mg/L	SM5210B	6	03/18/09 12:00	03/23/09	RHN-SA
pH	7.42@25.5°C	K SM4500H+B		03/19/09 9:20	03/19/09	NFM-SA
SAMPLE: MW-4 Lab ID: 09032090-003D Grab						
SAMPLED BY: FC Sample Time: 03/17/2009 12:50						
Ammonia as N	< 0.1 mg/L	Lachat	0.1	03/19/09 0:00	03/19/09	CMD-SA
Chemical Oxygen Demand	16 mg/L	HACH 8000	10	03/19/09 9:10	03/19/09	JLK-SA
SAMPLE: MW-4 Lab ID: 09032090-003E Grab						
SAMPLED BY: FC Sample Time: 03/17/2009 12:50						
Alkalinity as CaCO3	126 mg/L	SM2320B	2	03/23/09 8:45	03/23/09	JLK-SA

REMARKS:

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LAB ID # 11827

# Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave.  
Sayre, PA 18840

Phone: (570) 888-0169  
Fax: (570) 888-0717

Work Order: 09032090

SEND DATA TO:

NAME: Tom Delamarter  
COMPANY: Conklin, Town of  
ADDRESS: P.O. Box 182  
Conklin, NY 13748

WO#: 09032090

PAGE: 7 of 18

PO#:

PWS ID# Broome Co. DOH

PHONE: (607) 775-4584  
FAX: (607) 775-1434

## TEST REPORT

Landfill

RECEIVED FOR LAB BY: NAD

DATE: 03/18/2009 10:52

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SAMPLE: **MW-4**

Lab ID: 09032090-003F Grab

SAMPLED BY: FC

Sample Time: 03/17/2009 12:50

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Chloride	10.1 mg/L	EPA 300.0	0.25	03/19/09 17:00	03/20/09	LNP-CV
Sulfate	8.65 mg/L	EPA 300.0	0.25	03/19/09 17:00	03/20/09	LNP-CV

SAMPLE: **MW-4**

Lab ID: 09032090-003G Grab

SAMPLED BY: FC

Sample Time: 03/17/2009 12:50

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Nitrate as N	0.17 mg/L	EPA 353.2	0.05	03/18/09 11:54	03/18/09	IC-SA
Total Dissolved Solids	89 mg/L	SM2540C	10	03/23/09 8:00	03/25/09	NFM-SA

SAMPLE: **MW-4**

Lab ID: 09032090-003H Grab

SAMPLED BY: FC

Sample Time: 03/17/2009 12:50

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Cadmium	< 0.001 mg/L	EPA 200.7	0.001	03/19/09 7:45	03/23/09	RMD-CV
Calcium	31.2 mg/L	EPA 200.7	0.100	03/19/09 7:45	03/23/09	RMD-CV
Iron	0.337 mg/L	EPA 200.7	0.020	03/19/09 7:45	03/23/09	RMD-CV
Lead	< 0.010 mg/L	EPA 200.7	0.010	03/19/09 7:45	03/23/09	RMD-CV
Magnesium	8.13 mg/L	EPA 200.7	0.150	03/19/09 7:45	03/25/09	GSR-CV
Manganese	0.307 mg/L	EPA 200.7	0.002	03/19/09 7:45	03/23/09	RMD-CV
Potassium	0.817 mg/L	EPA 200.7	0.550	03/19/09 7:45	03/24/09	GSR-CV
Sodium	6.37 mg/L	EPA 200.7	0.550	03/19/09 7:45	03/24/09	GSR-CV
Thallium	< 0.025 mg/L	EPA 200.7	0.025	03/19/09 7:45	03/23/09	RMD-CV
Vanadium	< 0.010 mg/L	EPA 200.7	0.010	03/19/09 7:45	03/23/09	RMD-CV
Zinc	0.008 mg/L	EPA 200.7	0.005	03/19/09 7:45	03/24/09	GSR-CV

REMARKS:

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E Value above quantitation range

K Sample was received past holding time.

MANAGER

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LAB ID # 11216  
LAB ID # 11827

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Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
SAMPLE: MW-4 Lab ID: 09032090-003I Grab						
SAMPLED BY: FC Sample Time: 03/17/2009 12:50						
Phenol	< 0.025 mg/L	EPA 420.4	0.025	03/19/09 8:45	03/23/09	CMD-SA
SAMPLE: MW-4 Lab ID: 09032090-003J Grab						
SAMPLED BY: FC Sample Time: 03/17/2009 12:50						
Total Kjeldahl Nitrogen	< 1.0 mg/L	Lachat	1.0	03/24/09 9:51	03/24/09	RHN-SA
SAMPLE: MW-4 Lab ID: 09032090-003K Grab						
SAMPLED BY: FC Sample Time: 03/17/2009 12:50						
Total Organic Carbon	< 0.5 mg/L	SM5310C	0.5	03/24/09 9:00	03/24/09	JLK-SA
SAMPLE: MW-1 Upgradient Lab ID: 09032090-004A Grab						
SAMPLED BY: FC Sample Time: 03/17/2009 11:40						
Hardness, Calculation	192 mg/L	EPA 200.7	0.373	03/19/09 7:45	03/25/09	GSR-CV
SAMPLE: MW-1 Upgradient Lab ID: 09032090-004B Grab						
SAMPLED BY: FC Sample Time: 03/17/2009 11:40						
Bromide	< 0.05 mg/L	EPA 300.0	0.05	03/20/09 16:39	03/20/09	LNP-CV
SAMPLE: MW-1 Upgradient Lab ID: 09032090-004C Grab						
SAMPLED BY: FC Sample Time: 03/17/2009 11:40						
BOD	< 6 mg/L	SM5210B	6	03/18/09 12:00	03/23/09	RHN-SA

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pH 7.71@25.1°C K SM4500H+B 03/19/09 9:20 03/19/09 NFM-SA

SAMPLE: MW-1 Upgradient  
SAMPLED BY: FC

Lab ID: 09032090-004D Grab  
Sample Time: 03/17/2009 11:40

SLOQ

Test	Result	Method		Analysis Start	Analysis End	Analyst *
Ammonia as N	< 0.1 mg/L	Lachat	0.1	03/19/09 0:00	03/19/09	CMD-SA
Chemical Oxygen Demand	47 mg/L	HACH 8000	10	03/19/09 9:10	03/19/09	JLK-SA

SAMPLE: MW-1 Upgradient  
SAMPLED BY: FC

Lab ID: 09032090-004E Grab  
Sample Time: 03/17/2009 11:40

SLOQ

Test	Result	Method		Analysis Start	Analysis End	Analyst *
Alkalinity as CaCO3	242 mg/L	SM2320B	2	03/23/09 8:45	03/23/09	JLK-SA

SAMPLE: MW-1 Upgradient  
SAMPLED BY: FC

Lab ID: 09032090-004F Grab  
Sample Time: 03/17/2009 11:40

SLOQ

Test	Result	Method		Analysis Start	Analysis End	Analyst *
Chloride	1.74 mg/L	EPA 300.0	0.25	03/19/09 17:00	03/20/09	LNP-CV
Sulfate	5.80 mg/L	EPA 300.0	0.25	03/19/09 17:00	03/20/09	LNP-CV

SAMPLE: MW-1 Upgradient  
SAMPLED BY: FC

Lab ID: 09032090-004G Grab  
Sample Time: 03/17/2009 11:40

SLOQ

Test	Result	Method		Analysis Start	Analysis End	Analyst *
Nitrate as N	0.05 mg/L	EPA 353.2	0.05	03/18/09 11:54	03/18/09	IC-SA
Total Dissolved Solids	218 mg/L	SM2540C	10	03/23/09 8:00	03/25/09	NFM-SA

SAMPLE: MW-1 Upgradient  
SAMPLED BY: FC

Lab ID: 09032090-004H Grab  
Sample Time: 03/17/2009 11:40

SLOQ

Test	Result	Method		Analysis Start	Analysis End	Analyst *
Cadmium	< 0.001 mg/L	EPA 200.7	0.001	03/19/09 7:45	03/23/09	RMD-CV

REMARKS:

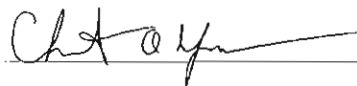
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Element	Concentration	Method	Result	Time	Date	Analyst
Calcium	47.6 mg/L	EPA 200.7	0.100	03/19/09 7:45	03/23/09	RMD-CV
Iron	0.949 mg/L	EPA 200.7	0.020	03/19/09 7:45	03/23/09	RMD-CV
Lead	< 0.010 mg/L	EPA 200.7	0.010	03/19/09 7:45	03/23/09	RMD-CV
Magnesium	17.8 mg/L	EPA 200.7	0.030	03/19/09 7:45	03/25/09	GSR-CV
Manganese	0.079 mg/L	EPA 200.7	0.002	03/19/09 7:45	03/23/09	RMD-CV
Potassium	1.88 mg/L	EPA 200.7	0.550	03/19/09 7:45	03/24/09	GSR-CV
Sodium	12.9 mg/L	EPA 200.7	0.550	03/19/09 7:45	03/24/09	GSR-CV
Thallium	< 0.025 mg/L	EPA 200.7	0.025	03/19/09 7:45	03/23/09	RMD-CV
Vanadium	< 0.010 mg/L	EPA 200.7	0.010	03/19/09 7:45	03/23/09	RMD-CV
Zinc	0.011 mg/L	EPA 200.7	0.005	03/19/09 7:45	03/24/09	GSR-CV

SAMPLE: MW-1 Upgradient  
SAMPLED BY: FC

Lab ID: 09032090-004I Grab  
Sample Time: 03/17/2009 11:40

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Phenol	< 0.025 mg/L	EPA 420.4	0.025	03/19/09 8:45	03/23/09	CMD-SA

SAMPLE: MW-1 Upgradient  
SAMPLED BY: FC

Lab ID: 09032090-004J Grab  
Sample Time: 03/17/2009 11:40

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Total Kjeldahl Nitrogen	< 1.0 mg/L	Lachat	1.0	03/24/09 9:51	03/24/09	RHN-SA

SAMPLE: MW-1 Upgradient  
SAMPLED BY: FC

Lab ID: 09032090-004K Grab  
Sample Time: 03/17/2009 11:40

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Total Organic Carbon	< 0.5 mg/L	SM5310C	0.5	03/24/09 9:00	03/24/09	JLK-SA

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Landfill

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Page 11 of 18

SAMPLE: SW-Carlin		Lab ID: 09032090-005A	Grab				
SAMPLED BY: FC		Sample Time: 03/17/2009 8:45		SLOQ	Analysis Start	Analysis End	Analyst *
Test	Result	Method					
Hardness, Calculation	36.2 mg/L	EPA 200.7	0.373	03/19/09 7:45	03/25/09	GSR-CV	
SAMPLE: SW-Carlin		Lab ID: 09032090-005B	Grab				
SAMPLED BY: FC		Sample Time: 03/17/2009 8:45		SLOQ	Analysis Start	Analysis End	Analyst *
Test	Result	Method					
Bromide	< 0.05 mg/L	EPA 300.0	0.05	03/20/09 16:39	03/20/09	LNP-CV	
SAMPLE: SW-Carlin		Lab ID: 09032090-005C	Grab				
SAMPLED BY: FC		Sample Time: 03/17/2009 8:45		SLOQ	Analysis Start	Analysis End	Analyst *
Test	Result	Method					
BOD	< 6 mg/L	SM5210B	6	03/18/09 12:00	03/23/09	RHN-SA	
pH	7.31@25.0°C	K SM4500H+B		03/19/09 9:20	03/19/09	NFM-SA	
SAMPLE: SW-Carlin		Lab ID: 09032090-005D	Grab				
SAMPLED BY: FC		Sample Time: 03/17/2009 8:45		SLOQ	Analysis Start	Analysis End	Analyst *
Test	Result	Method					
Ammonia as N	< 0.1 mg/L	Lachat	0.1	03/19/09 0:00	03/19/09	CMD-SA	
Chemical Oxygen Demand	37 mg/L	HACH 8000	10	03/19/09 9:10	03/19/09	JLK-SA	
SAMPLE: SW-Carlin		Lab ID: 09032090-005E	Grab				
SAMPLED BY: FC		Sample Time: 03/17/2009 8:45		SLOQ	Analysis Start	Analysis End	Analyst *
Test	Result	Method					
Alkalinity as CaCO3	18 mg/L	SM2320B	2	03/23/09 8:45	03/23/09	JLK-SA	

REMARKS:

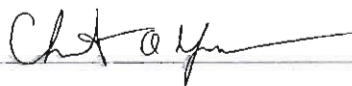
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## TEST REPORT

Landfill

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Page 12 of 18

SAMPLE: **SW-Carlin**  
SAMPLED BY: FC

Lab ID: 09032090-005F

Grab

Sample Time: 03/17/2009 8:45

SLOQ

Test	Result	Method		Analysis Start	Analysis End	Analyst *
Chloride	41.3 mg/L	EPA 300.0	0.25	03/19/09 17:00	03/20/09	LNP-CV
Sulfate	10.3 mg/L	EPA 300.0	0.25	03/19/09 17:00	03/20/09	LNP-CV

SAMPLE: **SW-Carlin**  
SAMPLED BY: FC

Lab ID: 09032090-005G

Grab

Sample Time: 03/17/2009 8:45

SLOQ

Test	Result	Method		Analysis Start	Analysis End	Analyst *
Nitrate as N	0.36 mg/L	EPA 353.2	0.05	03/18/09 11:54	03/18/09	IC-SA
Total Dissolved Solids	92 mg/L	SM2540C	10	03/23/09 8:00	03/25/09	NFM-SA

SAMPLE: **SW-Carlin**  
SAMPLED BY: FC

Lab ID: 09032090-005H

Grab

Sample Time: 03/17/2009 8:45

SLOQ

Test	Result	Method		Analysis Start	Analysis End	Analyst *
Cadmium	< 0.001 mg/L	EPA 200.7	0.001	03/19/09 7:45	03/23/09	RMD-CV
Calcium	10.6 mg/L	EPA 200.7	0.100	03/19/09 7:45	03/23/09	RMD-CV
Iron	0.110 mg/L	EPA 200.7	0.020	03/19/09 7:45	03/23/09	RMD-CV
Lead	< 0.010 mg/L	EPA 200.7	0.010	03/19/09 7:45	03/23/09	RMD-CV
Magnesium	2.24 mg/L	EPA 200.7	0.030	03/19/09 7:45	03/23/09	RMD-CV
Manganese	0.003 mg/L	EPA 200.7	0.002	03/19/09 7:45	03/23/09	RMD-CV
Potassium	1.16 mg/L	EPA 200.7	0.550	03/19/09 7:45	03/24/09	GSR-CV
Sodium	22.1 mg/L	EPA 200.7	2.75	03/19/09 7:45	03/24/09	GSR-CV
Thallium	< 0.025 mg/L	EPA 200.7	0.025	03/19/09 7:45	03/24/09	GSR-CV
Vanadium	< 0.010 mg/L	EPA 200.7	0.010	03/19/09 7:45	03/23/09	RMD-CV
Zinc	< 0.005 mg/L	EPA 200.7	0.005	03/19/09 7:45	03/23/09	RMD-CV

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Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
SAMPLE: <b>SW-Carlin</b> Lab ID: 09032090-005I Grab						
SAMPLED BY: FC Sample Time: 03/17/2009 8:45						
Phenol	< 0.025 mg/L	EPA 420.4	0.025	03/19/09 8:45	03/23/09	CMD-SA
SAMPLE: <b>SW-Carlin</b> Lab ID: 09032090-005J Grab						
SAMPLED BY: FC Sample Time: 03/17/2009 8:45						
Total Kjeldahl Nitrogen	< 1.0 mg/L	Lachat	1.0	03/24/09 9:51	03/24/09	RHN-SA
SAMPLE: <b>SW-Carlin</b> Lab ID: 09032090-005K Grab						
SAMPLED BY: FC Sample Time: 03/17/2009 8:45						
Total Organic Carbon	1.6 mg/L	SM5310C	0.5	03/24/09 9:00	03/24/09	JLK-SA
SAMPLE: <b>MW-38D</b> Lab ID: 09032090-006A Grab						
SAMPLED BY: FC Sample Time: 03/17/2009 13:30						
Hardness, Calculation	380 mg/L	EPA 200.7	0.373	03/19/09 7:45	03/25/09	GSR-CV
SAMPLE: <b>MW-38D</b> Lab ID: 09032090-006B Grab						
SAMPLED BY: FC Sample Time: 03/17/2009 13:30						
Bromide	0.10 mg/L	EPA 300.0	0.05	03/20/09 16:39	03/21/09	LNP-CV
SAMPLE: <b>MW-38D</b> Lab ID: 09032090-006C Grab						
SAMPLED BY: FC Sample Time: 03/17/2009 13:30						
BOD	< 6 mg/L	SM5210B	6	03/18/09 12:00	03/23/09	RHN-SA

REMARKS:

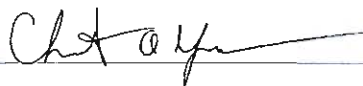
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pH 8.09@25.1 °C K SM4500H+B 03/19/09 9:20 03/19/09 NFM-SA

SAMPLE: MW-38D Lab ID: 09032090-006D Grab  
SAMPLED BY: FC Sample Time: 03/17/2009 13:30

SLOQ

Test	Result	Method		Analysis Start	Analysis End	Analyst *
Ammonia as N	0.1 mg/L	Lachat	0.1	03/19/09 0:00	03/19/09	CMD-SA
Chemical Oxygen Demand	23 mg/L	HACH 8000	10	03/19/09 9:10	03/19/09	JLK-SA

SAMPLE: MW-38D Lab ID: 09032090-006E Grab  
SAMPLED BY: FC Sample Time: 03/17/2009 13:30

SLOQ

Test	Result	Method		Analysis Start	Analysis End	Analyst *
Alkalinity as CaCO <sub>3</sub>	182 mg/L	SM2320B	2	03/23/09 8:45	03/23/09	JLK-SA

SAMPLE: MW-38D Lab ID: 09032090-006F Grab  
SAMPLED BY: FC Sample Time: 03/17/2009 13:30

SLOQ

Test	Result	Method		Analysis Start	Analysis End	Analyst *
Chloride	10.1 mg/L	EPA 300.0	0.25	03/19/09 17:00	03/20/09	LNP-CV
Sulfate	7.39 mg/L	EPA 300.0	0.25	03/19/09 17:00	03/20/09	LNP-CV

SAMPLE: MW-38D Lab ID: 09032090-006G Grab  
SAMPLED BY: FC Sample Time: 03/17/2009 13:30

SLOQ

Test	Result	Method		Analysis Start	Analysis End	Analyst *
Nitrate as N	0.20 mg/L	EPA 353.2	0.05	03/18/09 11:54	03/18/09	IC-SA
Total Dissolved Solids	169 mg/L	SM2540C	10	03/23/09 8:00	03/25/09	NFM-SA

SAMPLE: MW-38D Lab ID: 09032090-006H Grab  
SAMPLED BY: FC Sample Time: 03/17/2009 13:30

SLOQ

Test	Result	Method		Analysis Start	Analysis End	Analyst *
Cadmium	0.006 mg/L	EPA 200.7	0.005	03/19/09 7:45	03/24/09	GSR-CV

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E Value above quantitation range

K Sample was received past holding time.

MANAGER

DATE: 3/30/2009



LAB ID # 11216  
LAB ID # 11827

# Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave.  
Sayre, PA 18840

Phone: (570) 888-0169  
Fax: (570) 888-0717

Work Order: 09032090

SEND DATA TO:

NAME: Tom Delamarter  
COMPANY: Conklin, Town of  
ADDRESS: P.O. Box 182  
Conklin, NY 13748

WO#: 09032090

PAGE: 15 of 18

PO#:

PWS ID# Broome Co. DOH

PHONE: (607) 775-4584  
FAX: (607) 775-1434

## TEST REPORT

Landfill

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DATE: 03/18/2009 10:52

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Element	Concentration	Method	Limit	Time	Date	Analyst
Calcium	53.3 mg/L	EPA 200.7	0.500	03/19/09 7:45	03/24/09	GSR-CV
Iron	278 mg/L	EPA 200.7	0.100	03/19/09 7:45	03/24/09	GSR-CV
Lead	0.119 mg/L	EPA 200.7	0.050	03/19/09 7:45	03/24/09	GSR-CV
Magnesium	59.9 mg/L	EPA 200.7	0.150	03/19/09 7:45	03/25/09	GSR-CV
Manganese	8.26 mg/L	EPA 200.7	0.034	03/19/09 7:45	03/26/09	GSR-CV
Potassium	9.70 mg/L	EPA 200.7	2.75	03/19/09 7:45	03/24/09	GSR-CV
Sodium	37.3 mg/L	EPA 200.7	2.75	03/19/09 7:45	03/24/09	GSR-CV
Thallium	< 0.125 mg/L	EPA 200.7	0.125	03/19/09 7:45	03/24/09	GSR-CV
Vanadium	0.134 mg/L	EPA 200.7	0.050	03/19/09 7:45	03/24/09	GSR-CV
Zinc	0.631 mg/L	EPA 200.7	0.025	03/19/09 7:45	03/24/09	GSR-CV

SAMPLE: MW-38D Lab ID: 09032090-006I Grab  
SAMPLED BY: FC Sample Time: 03/17/2009 13:30

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Phenol	< 0.025 mg/L	EPA 420.4	0.025	03/19/09 8:45	03/23/09	CMD-SA

SAMPLE: MW-38D Lab ID: 09032090-006J Grab  
SAMPLED BY: FC Sample Time: 03/17/2009 13:30

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Total Kjeldahl Nitrogen	< 1.0 mg/L	Lachat	1.0	03/24/09 9:51	03/24/09	RHN-SA

SAMPLE: MW-38D Lab ID: 09032090-006K Grab  
SAMPLED BY: FC Sample Time: 03/17/2009 13:30

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Total Organic Carbon	0.6 mg/L	SM5310C	0.5	03/24/09 9:00	03/24/09	JLK-SA

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WO#: 09032090  
PAGE: 16 of 18  
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## TEST REPORT

Landfill

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Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
SAMPLE: <b>MW-37</b> Lab ID: 09032090-007A Grab						
SAMPLED BY: FC Sample Time: 03/17/2009 12:05						
Hardness, Calculation	151 mg/L	EPA 200.7	0.373	03/19/09 7:45	03/25/09	GSR-CV
SAMPLE: <b>MW-37</b> Lab ID: 09032090-007B Grab						
SAMPLED BY: FC Sample Time: 03/17/2009 12:05						
Bromide	< 0.05 mg/L	EPA 300.0	0.05	03/20/09 16:39	03/21/09	LNP-CV
SAMPLE: <b>MW-37</b> Lab ID: 09032090-007C Grab						
SAMPLED BY: FC Sample Time: 03/17/2009 12:05						
BOD	< 6 mg/L	SM5210B	6	03/18/09 12:00	03/23/09	RHN-SA
pH	8.14@25.1 °C	K SM4500H+B		03/19/09 9:20	03/19/09	NFM-SA
SAMPLE: <b>MW-37</b> Lab ID: 09032090-007D Grab						
SAMPLED BY: FC Sample Time: 03/17/2009 12:05						
Ammonia as N	< 0.1 mg/L	Lachat	0.1	03/19/09 0:00	03/19/09	CMD-SA
Chemical Oxygen Demand	28 mg/L	HACH 8000	10	03/19/09 9:10	03/19/09	JLK-SA
SAMPLE: <b>MW-37</b> Lab ID: 09032090-007E Grab						
SAMPLED BY: FC Sample Time: 03/17/2009 12:05						
Alkalinity as CaCO3	146 mg/L	SM2320B	2	03/23/09 8:45	03/23/09	JLK-SA

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**TEST REPORT**

PWS ID# Broome Co. DOH

Landfill

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SAMPLE: **MW-37** Lab ID: 09032090-007F Grab  
SAMPLED BY: FC Sample Time: 03/17/2009 12:05

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Chloride	6.04 mg/L	EPA 300.0	0.25	03/19/09 17:00	03/20/09	LNP-CV
Sulfate	11.6 mg/L	EPA 300.0	0.25	03/19/09 17:00	03/20/09	LNP-CV

SAMPLE: **MW-37** Lab ID: 09032090-007G Grab  
SAMPLED BY: FC Sample Time: 03/17/2009 12:05

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Nitrate as N	0.13 mg/L	EPA 353.2	0.05	03/18/09 11:54	03/18/09	IC-SA
Total Dissolved Solids	158 mg/L	SM2540C	10	03/23/09 8:00	03/25/09	NFM-SA

SAMPLE: **MW-37** Lab ID: 09032090-007H Grab  
SAMPLED BY: FC Sample Time: 03/17/2009 12:05

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Cadmium	< 0.001 mg/L	EPA 200.7	0.001	03/19/09 7:45	03/23/09	RMD-CV
Calcium	43.4 mg/L	EPA 200.7	0.100	03/19/09 7:45	03/23/09	RMD-CV
Iron	19.1 mg/L	EPA 200.7	0.020	03/19/09 7:45	03/23/09	RMD-CV
Lead	< 0.010 mg/L	EPA 200.7	0.010	03/19/09 7:45	03/23/09	RMD-CV
Magnesium	9.73 mg/L	EPA 200.7	0.030	03/19/09 7:45	03/25/09	GSR-CV
Manganese	0.400 mg/L	EPA 200.7	0.002	03/19/09 7:45	03/23/09	RMD-CV
Potassium	4.43 mg/L	EPA 200.7	0.550	03/19/09 7:45	03/24/09	GSR-CV
Sodium	7.99 mg/L	EPA 200.7	0.550	03/19/09 7:45	03/24/09	GSR-CV
Thallium	< 0.025 mg/L	EPA 200.7	0.025	03/19/09 7:45	03/24/09	GSR-CV
Vanadium	0.013 mg/L	EPA 200.7	0.010	03/19/09 7:45	03/24/09	GSR-CV
Zinc	0.046 mg/L	EPA 200.7	0.005	03/19/09 7:45	03/24/09	GSR-CV

REMARKS:

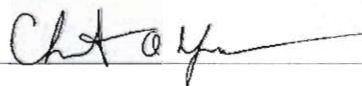
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LAB ID # 11827

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Work Order: 09032090

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COMPANY: Conklin, Town of  
ADDRESS: P.O. Box 182  
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WO#: 09032090

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**TEST REPORT**

Landfill

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Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
SAMPLE: MW-37 Lab ID: 09032090-007I Grab						
SAMPLED BY: FC Sample Time: 03/17/2009 12:05						
Phenol	< 0.025 mg/L	EPA 420.4	0.025	03/19/09 8:45	03/23/09	CMD-SA
SAMPLE: MW-37 Lab ID: 09032090-007J Grab						
SAMPLED BY: FC Sample Time: 03/17/2009 12:05						
Total Kjeldahl Nitrogen	< 1.0 mg/L	Lachat	1.0	03/24/09 9:51	03/24/09	RHN-SA
SAMPLE: MW-37 Lab ID: 09032090-007K Grab						
SAMPLED BY: FC Sample Time: 03/17/2009 12:05						
Total Organic Carbon	< 0.5 mg/L	SM5310C	0.5	03/24/09 9:00	03/24/09	JLK-SA

REMARKS:

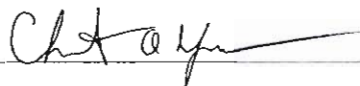
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MANAGER



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Work Order: 09060589

SEND DATA TO:

NAME: Tom Delamarter  
COMPANY: Conklin, Town of  
ADDRESS: P.O. Box 182  
Conklin, NY 13748

WO#: 09060589

PAGE: 1 of 16

PO#:

PWS ID# Broome Co. DOH

PHONE: (607) 775-4584  
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**TEST REPORT**

Landfill

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Page 1 of 16

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
SAMPLE: MW-3 Lab ID: 09060589-001A Grab						
SAMPLED BY: FC Sample Time: 06/03/2009 13:10						
Alkalinity as CaCO3	82 mg/L	SM2320B	2	06/05/09 8:31	06/05/09	JLW-SA
SAMPLE: MW-3 Lab ID: 09060589-001B Grab						
SAMPLED BY: FC Sample Time: 06/03/2009 13:10						
Ammonia as N	< 0.1 mg/L	Lachat	0.1	06/04/09 9:00	06/04/09	CMD-SA
Chemical Oxygen Demand	23 mg/L	HACH 8000	10	06/09/09 10:00	06/09/09	JLK-SA
SAMPLE: MW-3 Lab ID: 09060589-001C Grab						
SAMPLED BY: FC Sample Time: 06/03/2009 13:10						
BOD	< 6 mg/L	SM5210B	6	06/04/09 10:00	06/09/09	JP-SA
pH	6.45 @ 22.7°C	K SM4500H+B		06/04/09 8:18	06/04/09	KMF-SA
SAMPLE: MW-3 Lab ID: 09060589-001D Grab						
SAMPLED BY: FC Sample Time: 06/03/2009 13:10						
Chloride	20.4 mg/L	EPA 300.0	0.25	06/10/09 14:32	06/10/09	LNP-CV
Sulfate	15.9 mg/L	EPA 300.0	0.25	06/10/09 14:32	06/10/09	LNP-CV
Bromide	0.09 mg/L	EPA 300.0	0.05	06/05/09 16:06	06/05/09	LNP-CV

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K Sample was received past holding time.

L Value above calibration range but within annually verified linear range

O Due to matrix effects, not all quality control parameters met acceptance criteria

MANAGER

DATE: 6/17/2009

LAB ID # 11216  
LAB ID # 11827

# Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave.  
Sayre, PA 18840

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Work Order: 09060589

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NAME: Tom Delamarter  
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ADDRESS: P.O. Box 182  
Conklin, NY 13748

WO#: 09060589

PAGE: 2 of 16

PO#:

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## TEST REPORT

Landfill

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DATE: 06/04/2009 9:11

Page 2 of 16

SAMPLE: **MW-3**

Lab ID: 09060589-001E Grab

SAMPLED BY: FC

Sample Time: 06/03/2009 13:10

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Nitrate as N	< 0.05 mg/L	EPA 353.2	0.05	06/05/09 12:00	06/05/09	IC-SA
Total Dissolved Solids	242 mg/L	SM2540C	10	06/08/09 10:00	06/10/09	NFM-SA

SAMPLE: **MW-3**

Lab ID: 09060589-001F Grab

SAMPLED BY: FC

Sample Time: 06/03/2009 13:10

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Cadmium	< 0.001 mg/L	EPA 200.7	0.001	06/06/09 14:20	06/08/09	RMD-CV
Calcium	69.5 mg/L	EPA 200.7	0.100	06/06/09 14:20	06/08/09	RMD-CV
Iron	97.3 mg/L	EPA 200.7	0.020	06/06/09 14:20	06/08/09	RMD-CV
Lead	0.064 mg/L	EPA 200.7	0.010	06/06/09 14:20	06/08/09	RMD-CV
Magnesium	28.3 mg/L	EPA 200.7	0.030	06/06/09 14:20	06/08/09	RMD-CV
Manganese	4.77 mg/L	L EPA 200.7	0.002	06/06/09 14:20	06/08/09	RMD-CV
Potassium	4.98 mg/L	Q EPA 200.7	0.550	06/06/09 14:20	06/08/09	RMD-CV
Sodium	12.4 mg/L	EPA 200.7	0.550	06/06/09 14:20	06/08/09	RMD-CV
Thallium	0.072 mg/L	EPA 200.7	0.025	06/06/09 14:20	06/08/09	RMD-CV
Vanadium	0.067 mg/L	EPA 200.7	0.010	06/06/09 14:20	06/08/09	RMD-CV
Zinc	0.505 mg/L	EPA 200.7	0.005	06/06/09 14:20	06/08/09	RMD-CV
Hardness, Calculation	290 mg/L	EPA 200.7	0.373	06/06/09 14:20	06/08/09	RMD-CV

SAMPLE: **MW-3**

Lab ID: 09060589-001G Grab

SAMPLED BY: FC

Sample Time: 06/03/2009 13:10

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Phenol	< 0.025 mg/L	EPA 420.4	0.025	06/08/09 11:00	06/08/09	CMD-SA

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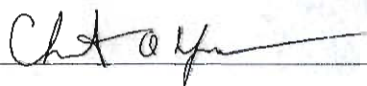
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MANAGER



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Page 3 of 16

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
SAMPLE: MW-3 Lab ID: 09060589-001H Grab						
SAMPLED BY: FC Sample Time: 06/03/2009 13:10						
Total Kjeldahl Nitrogen	< 1.0 mg/L	Lachat	1.0	06/08/09 13:34	06/08/09	RHN-SA
SAMPLE: MW-3 Lab ID: 09060589-001I Grab						
SAMPLED BY: FC Sample Time: 06/03/2009 13:10						
Total Organic Carbon	2.0 mg/L	SM5310C	0.5	06/15/09 14:40	06/16/09	JLK-SA
SAMPLE: MW-12 Lab ID: 09060589-002A Grab						
SAMPLED BY: FC Sample Time: 06/03/2009 11:05						
Alkalinity as CaCO3	98 mg/L	SM2320B	2	06/05/09 8:31	06/05/09	JLW-SA
SAMPLE: MW-12 Lab ID: 09060589-002B Grab						
SAMPLED BY: FC Sample Time: 06/03/2009 11:05						
Ammonia as N	< 0.1 mg/L	Lachat	0.1	06/04/09 9:00	06/04/09	CMD-SA
Chemical Oxygen Demand	< 10 mg/L	HACH 8000	10	06/09/09 10:00	06/09/09	JLK-SA
SAMPLE: MW-12 Lab ID: 09060589-002C Grab						
SAMPLED BY: FC Sample Time: 06/03/2009 11:05						
BOD	< 6 mg/L	SM5210B	6	06/04/09 10:00	06/09/09	JP-SA
pH	6.25 @ 22.9°C	K SM4500H+B		06/04/09 8:18	06/04/09	KMF-SA

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Page 4 of 16

SAMPLE: **MW-12** Lab ID: 09060589-002D Grab  
SAMPLED BY: FC Sample Time: 06/03/2009 11:05

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Chloride	4.79 mg/L	EPA 300.0	0.25	06/10/09 14:32	06/10/09	LNP-CV
Sulfate	13.4 mg/L	EPA 300.0	0.25	06/10/09 14:32	06/10/09	LNP-CV
Bromide	0.19 mg/L	EPA 300.0	0.05	06/05/09 16:06	06/05/09	LNP-CV

SAMPLE: **MW-12** Lab ID: 09060589-002E Grab  
SAMPLED BY: FC Sample Time: 06/03/2009 11:05

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Nitrate as N	< 0.05 mg/L	EPA 353.2	0.05	06/05/09 12:00	06/05/09	IC-SA
Total Dissolved Solids	52 mg/L	SM2540C	10	06/08/09 10:00	06/10/09	NFM-SA

SAMPLE: **MW-12** Lab ID: 09060589-002F Grab  
SAMPLED BY: FC Sample Time: 06/03/2009 11:05

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Cadmium	< 0.001 mg/L	EPA 200.7	0.001	06/06/09 14:20	06/08/09	RMD-CV
Calcium	9.49 mg/L	EPA 200.7	0.100	06/06/09 14:20	06/08/09	RMD-CV
Iron	2.67 mg/L	EPA 200.7	0.020	06/06/09 14:20	06/08/09	RMD-CV
Lead	< 0.010 mg/L	EPA 200.7	0.010	06/06/09 14:20	06/08/09	RMD-CV
Magnesium	3.60 mg/L	Q EPA 200.7	0.030	06/06/09 14:20	06/08/09	RMD-CV
Manganese	0.525 mg/L	EPA 200.7	0.002	06/06/09 14:20	06/08/09	RMD-CV
Potassium	0.847 mg/L	Q EPA 200.7	0.550	06/06/09 14:20	06/08/09	RMD-CV
Sodium	6.58 mg/L	EPA 200.7	0.550	06/06/09 14:20	06/08/09	RMD-CV
Thallium	< 0.025 mg/L	EPA 200.7	0.025	06/06/09 14:20	06/08/09	RMD-CV
Vanadium	< 0.010 mg/L	EPA 200.7	0.010	06/06/09 14:20	06/08/09	RMD-CV
Zinc	0.008 mg/L	EPA 200.7	0.005	06/06/09 14:20	06/08/09	RMD-CV

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- K Sample was received past holding time.
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MANAGER

DATE: 6/17/2009



LAB ID # 11216  
LAB ID # 11827

# Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave.  
Sayre, PA 18840

Phone: (570) 888-0169  
Fax: (570) 888-0717

Work Order: 09060589

SEND DATA TO:

NAME: Tom Delamarter  
COMPANY: Conklin, Town of  
ADDRESS: P.O. Box 182  
Conklin, NY 13748

WO#: 09060589

PAGE: 5 of 16

PO#:

PWS ID# Broome Co. DOH

PHONE: (607) 775-4584  
FAX: (607) 775-1434

## TEST REPORT

Landfill

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Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Hardness, Calculation	38.5 mg/L	EPA 200.7	0.373	06/06/09 14:20	06/08/09	RMD-CV
SAMPLE: MW-12 Lab ID: 09060589-002G Grab						
SAMPLED BY: FC Sample Time: 06/03/2009 11:05						
Phenol	< 0.025 mg/L	EPA 420.4	0.025	06/08/09 11:00	06/08/09	CMD-SA
SAMPLE: MW-12 Lab ID: 09060589-002H Grab						
SAMPLED BY: FC Sample Time: 06/03/2009 11:05						
Total Kjeldahl Nitrogen	< 1.0 mg/L	Lachat	1.0	06/08/09 13:34	06/08/09	RHN-SA
SAMPLE: MW-12 Lab ID: 09060589-002I Grab						
SAMPLED BY: FC Sample Time: 06/03/2009 11:05						
Total Organic Carbon	1.3 mg/L	SM5310C	0.5	06/15/09 14:40	06/16/09	JLK-SA
SAMPLE: MW-4 Lab ID: 09060589-003A Grab						
SAMPLED BY: FC Sample Time: 06/03/2009 13:25						
Alkalinity as CaCO3	66 mg/L	SM2320B	2	06/05/09 8:31	06/05/09	JLW-SA
SAMPLE: MW-4 Lab ID: 09060589-003B Grab						
SAMPLED BY: FC Sample Time: 06/03/2009 13:25						
Ammonia as N	< 0.1 mg/L	Lachat	0.1	06/04/09 9:00	06/04/09	CMD-SA
Chemical Oxygen Demand	< 10 mg/L	HACH 8000	10	06/09/09 10:00	06/09/09	JLK-SA

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Page 6 of 16

SAMPLE: **MW-4** Lab ID: 09060589-003C Grab  
SAMPLED BY: FC Sample Time: 06/03/2009 13:25

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
BOD	< 6 mg/L	SM5210B	6	06/04/09 10:00	06/09/09	JP-SA
pH	7.02 @ 23.2°C	K SM4500H+B		06/04/09 8:18	06/04/09	KMF-SA

SAMPLE: **MW-4** Lab ID: 09060589-003D Grab  
SAMPLED BY: FC Sample Time: 06/03/2009 13:25

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Chloride	10.6 mg/L	EPA 300.0	0.25	06/10/09 14:32	06/10/09	LNP-CV
Sulfate	8.89 mg/L	EPA 300.0	0.25	06/10/09 14:32	06/10/09	LNP-CV
Bromide	< 0.05 mg/L	EPA 300.0	0.05	06/05/09 16:06	06/05/09	LNP-CV

SAMPLE: **MW-4** Lab ID: 09060589-003E Grab  
SAMPLED BY: FC Sample Time: 06/03/2009 13:25

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Nitrate as N	0.17 mg/L	EPA 353.2	0.05	06/05/09 12:00	06/05/09	IC-SA
Total Dissolved Solids	10 mg/L	SM2540C	10	06/08/09 10:00	06/10/09	NFM-SA

SAMPLE: **MW-4** Lab ID: 09060589-003F Grab  
SAMPLED BY: FC Sample Time: 06/03/2009 13:25

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Cadmium	< 0.001 mg/L	EPA 200.7	0.001	06/06/09 14:20	06/09/09	RMD-CV
Calcium	36.2 mg/L	EPA 200.7	0.100	06/06/09 14:20	06/09/09	RMD-CV
Iron	61.5 mg/L	EPA 200.7	0.020	06/06/09 14:20	06/09/09	RMD-CV
Lead	0.073 mg/L	EPA 200.7	0.010	06/06/09 14:20	06/09/09	RMD-CV
Magnesium	16.1 mg/L	EPA 200.7	0.030	06/06/09 14:20	06/09/09	RMD-CV

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Element	Concentration	Unit	Method	Result	Date/Time	Analysis Date	Analysis Time	Method
Manganese	6.56	mg/L	EPA 200.7	0.002	06/06/09 14:20	06/09/09		RMD-CV
Potassium	5.26	mg/L	EPA 200.7	0.550	06/06/09 14:20	06/09/09		RMD-CV
Sodium	6.37	mg/L	EPA 200.7	0.550	06/06/09 14:20	06/09/09		RMD-CV
Thallium	0.096	mg/L	EPA 200.7	0.025	06/06/09 14:20	06/09/09		RMD-CV
Vanadium	0.045	mg/L	EPA 200.7	0.010	06/06/09 14:20	06/09/09		RMD-CV
Zinc	0.145	mg/L	EPA 200.7	0.005	06/06/09 14:20	06/09/09		RMD-CV
Hardness, Calculation	156	mg/L	EPA 200.7	0.373	06/06/09 14:20	06/09/09		RMD-CV

SAMPLE: **MW-4** Lab ID: 09060589-003G Grab  
SAMPLED BY: FC Sample Time: 06/03/2009 13:25

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst*
Phenol	< 0.025 mg/L	EPA 420.4	0.025	06/08/09 11:00	06/08/09	CMD-SA

SAMPLE: **MW-4** Lab ID: 09060589-003H Grab  
SAMPLED BY: FC Sample Time: 06/03/2009 13:25

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst*
Total Kjeldahl Nitrogen	< 1.0 mg/L	Lachat	1.0	06/08/09 13:34	06/08/09	RHN-SA

SAMPLE: **MW-4** Lab ID: 09060589-003I Grab  
SAMPLED BY: FC Sample Time: 06/03/2009 13:25

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst*
Total Organic Carbon	0.5 mg/L	SM5310C	0.5	06/15/09 14:40	06/16/09	JLK-SA

SAMPLE: **MW-1 Upgradient** Lab ID: 09060589-004A Grab  
SAMPLED BY: FC Sample Time: 06/03/2009 12:15

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst*
Alkalinity as CaCO3	238 mg/L	SM2320B	2	06/05/09 8:31	06/05/09	JLW-SA

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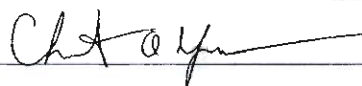
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SAMPLE: **MW-1 Upgradient**  
SAMPLED BY: FC

Lab ID: 09060589-004B Grab  
Sample Time: 06/03/2009 12:15

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Ammonia as N	< 0.1 mg/L	Lachat	0.1	06/04/09 9:00	06/04/09	CMD-SA
Chemical Oxygen Demand	< 10 mg/L	HACH 8000	10	06/09/09 10:00	06/09/09	JLK-SA

SAMPLE: **MW-1 Upgradient**  
SAMPLED BY: FC

Lab ID: 09060589-004C Grab  
Sample Time: 06/03/2009 12:15

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
BOD	< 6 mg/L	SM5210B	6	06/04/09 10:00	06/09/09	JP-SA
pH	7.69 @ 22.8°C	K SM4500H+B		06/04/09 8:18	06/04/09	KMF-SA

SAMPLE: **MW-1 Upgradient**  
SAMPLED BY: FC

Lab ID: 09060589-004D Grab  
Sample Time: 06/03/2009 12:15

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Chloride	1.85 mg/L	EPA 300.0	0.25	06/10/09 14:32	06/10/09	LNP-CV
Sulfate	5.67 mg/L	EPA 300.0	0.25	06/10/09 14:32	06/10/09	LNP-CV
Bromide	< 0.05 mg/L	EPA 300.0	0.05	06/05/09 16:06	06/05/09	LNP-CV

SAMPLE: **MW-1 Upgradient**  
SAMPLED BY: FC

Lab ID: 09060589-004E Grab  
Sample Time: 06/03/2009 12:15

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Nitrate as N	< 0.05 mg/L	EPA 353.2	0.05	06/05/09 12:00	06/05/09	IC-SA
Total Dissolved Solids	205 mg/L	SM2540C	10	06/08/09 10:00	06/10/09	NFM-SA

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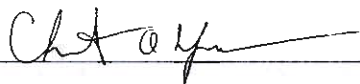
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Conklin, NY 13748

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PAGE: 9 of 16

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## TEST REPORT

Landfill

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Page 9 of 16

SAMPLE: **MW-1 Upgradient**  
SAMPLED BY: FC

Lab ID: 09060589-004F Grab  
Sample Time: 06/03/2009 12:15

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Cadmium	< 0.001 mg/L	EPA 200.7	0.001	06/06/09 14:20	06/09/09	RMD-CV
Calcium	52.2 mg/L	EPA 200.7	0.100	06/06/09 14:20	06/09/09	RMD-CV
Iron	< 0.020 mg/L	EPA 200.7	0.020	06/06/09 14:20	06/09/09	RMD-CV
Lead	< 0.010 mg/L	EPA 200.7	0.010	06/06/09 14:20	06/09/09	RMD-CV
Magnesium	18.7 mg/L	EPA 200.7	0.030	06/06/09 14:20	06/09/09	RMD-CV
Manganese	0.011 mg/L	EPA 200.7	0.002	06/06/09 14:20	06/09/09	RMD-CV
Potassium	1.74 mg/L	Q EPA 200.7	0.550	06/06/09 14:20	06/09/09	RMD-CV
Sodium	18.2 mg/L	EPA 200.7	0.550	06/06/09 14:20	06/09/09	RMD-CV
Thallium	< 0.025 mg/L	EPA 200.7	0.025	06/06/09 14:20	06/09/09	RMD-CV
Vanadium	< 0.010 mg/L	EPA 200.7	0.010	06/06/09 14:20	06/09/09	RMD-CV
Zinc	< 0.005 mg/L	EPA 200.7	0.005	06/06/09 14:20	06/09/09	RMD-CV
Hardness, Calculation	207 mg/L	EPA 200.7	0.373	06/06/09 14:20	06/09/09	RMD-CV

SAMPLE: **MW-1 Upgradient**  
SAMPLED BY: FC

Lab ID: 09060589-004G Grab  
Sample Time: 06/03/2009 12:15

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Phenol	< 0.025 mg/L	EPA 420.4	0.025	06/08/09 11:00	06/08/09	CMD-SA

SAMPLE: **MW-1 Upgradient**  
SAMPLED BY: FC

Lab ID: 09060589-004H Grab  
Sample Time: 06/03/2009 12:15

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Total Kjeldahl Nitrogen	< 1.0 mg/L	Lachat	1.0	06/08/09 13:34	06/08/09	RHN-SA

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Page 10 of 16

SAMPLE: **MW-1 Upgradient**  
SAMPLED BY: FC

Lab ID: 09060589-004I Grab

Sample Time: 06/03/2009 12:15

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Total Organic Carbon	< 0.5 mg/L	SM5310C	0.5	06/15/09 14:40	06/16/09	JLK-SA

SAMPLE: **SW-Carlin**  
SAMPLED BY: FC

Lab ID: 09060589-005A Grab

Sample Time: 06/03/2009 14:10

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Alkalinity as CaCO <sub>3</sub>	48 mg/L	SM2320B	2	06/05/09 8:31	06/05/09	JLW-SA

SAMPLE: **SW-Carlin**  
SAMPLED BY: FC

Lab ID: 09060589-005B Grab

Sample Time: 06/03/2009 14:10

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Ammonia as N	< 0.1 mg/L	Lachat	0.1	06/04/09 9:00	06/04/09	CMD-SA
Chemical Oxygen Demand	11 mg/L	HACH 8000	10	06/09/09 10:00	06/09/09	JLK-SA

SAMPLE: **SW-Carlin**  
SAMPLED BY: FC

Lab ID: 09060589-005C Grab

Sample Time: 06/03/2009 14:10

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
BOD	< 6 mg/L	SM5210B	6	06/04/09 10:00	06/09/09	JP-SA
pH	7.00 @ 22.9°C	K SM4500H+B		06/04/09 8:18	06/04/09	KMF-SA

SAMPLE: **SW-Carlin**  
SAMPLED BY: FC

Lab ID: 09060589-005D Grab

Sample Time: 06/03/2009 14:10

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Chloride	28.6 mg/L	EPA 300.0	0.25	06/10/09 14:32	06/10/09	LNP-CV
Sulfate	8.86 mg/L	EPA 300.0	0.25	06/10/09 14:32	06/10/09	LNP-CV

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Bromide	< 0.05 mg/L	EPA 300.0	0.05	06/05/09 16:06	06/05/09	LNP-CV
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SAMPLE: **SW-Carlin** Lab ID: 09060589-005E Grab  
SAMPLED BY: FC Sample Time: 06/03/2009 14:10

SLOQ

Test	Result	Method		Analysis Start	Analysis End	Analyst *
Nitrate as N	0.08 mg/L	EPA 353.2	0.05	06/05/09 12:00	06/05/09	IC-SA
Total Dissolved Solids	11 mg/L	SM2540C	10	06/08/09 10:00	06/10/09	NFM-SA

SAMPLE: **SW-Carlin** Lab ID: 09060589-005F Grab  
SAMPLED BY: FC Sample Time: 06/03/2009 14:10

SLOQ

Test	Result	Method		Analysis Start	Analysis End	Analyst *
Cadmium	< 0.001 mg/L	EPA 200.7	0.001	06/06/09 14:20	06/09/09	RMD-CV
Calcium	11.9 mg/L	EPA 200.7	0.100	06/06/09 14:20	06/09/09	RMD-CV
Iron	0.024 mg/L	EPA 200.7	0.020	06/06/09 14:20	06/09/09	RMD-CV
Lead	< 0.010 mg/L	EPA 200.7	0.010	06/06/09 14:20	06/09/09	RMD-CV
Magnesium	2.75 mg/L	EPA 200.7	0.030	06/06/09 14:20	06/09/09	RMD-CV
Manganese	0.003 mg/L	EPA 200.7	0.002	06/06/09 14:20	06/09/09	RMD-CV
Potassium	1.40 mg/L	EPA 200.7	0.550	06/06/09 14:20	06/09/09	RMD-CV
Sodium	21.0 mg/L	EPA 200.7	0.550	06/06/09 14:20	06/09/09	RMD-CV
Thallium	< 0.025 mg/L	EPA 200.7	0.025	06/06/09 14:20	06/09/09	RMD-CV
Vanadium	< 0.010 mg/L	EPA 200.7	0.010	06/06/09 14:20	06/09/09	RMD-CV
Zinc	0.005 mg/L	EPA 200.7	0.005	06/06/09 14:20	06/09/09	RMD-CV
Hardness, Calculation	40.9 mg/L	EPA 200.7	0.373	06/06/09 14:20	06/09/09	RMD-CV

SAMPLE: **SW-Carlin** Lab ID: 09060589-005G Grab  
SAMPLED BY: FC Sample Time: 06/03/2009 14:10

SLOQ

Test	Result	Method		Analysis Start	Analysis End	Analyst *
Phenol	< 0.025 mg/L	EPA 420.4	0.025	06/08/09 11:00	06/08/09	CMD-SA

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Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
SAMPLE: SW-Carlin Lab ID: 09060589-005H Grab						
SAMPLED BY: FC Sample Time: 06/03/2009 14:10						
Total Kjeldahl Nitrogen	< 1.0 mg/L	Lachat	1.0	06/08/09 13:34	06/08/09	RHN-SA
SAMPLE: SW-Carlin Lab ID: 09060589-005I Grab						
SAMPLED BY: FC Sample Time: 06/03/2009 14:10						
Total Organic Carbon	2.2 mg/L	SM5310C	0.5	06/15/09 14:40	06/16/09	JLK-SA
SAMPLE: MW-38D Lab ID: 09060589-006A Grab						
SAMPLED BY: FC Sample Time: 06/03/2009 14:00						
Alkalinity as CaCO3	158 mg/L	SM2320B	2	06/05/09 8:31	06/05/09	JLW-SA
SAMPLE: MW-38D Lab ID: 09060589-006B Grab						
SAMPLED BY: FC Sample Time: 06/03/2009 14:00						
Ammonia as N	< 0.1 mg/L	Lachat	0.1	06/04/09 9:00	06/04/09	CMD-SA
Chemical Oxygen Demand	< 10 mg/L	HACH 8000	10	06/09/09 10:00	06/09/09	JLK-SA
SAMPLE: MW-38D Lab ID: 09060589-006C Grab						
SAMPLED BY: FC Sample Time: 06/03/2009 14:00						
BOD	< 6 mg/L	SM5210B	6	06/04/09 10:00	06/09/09	JIP-SA
pH	7.76 @ 22.8 °C	K SM4500H+B		06/04/09 8:18	06/04/09	KMF-SA

REMARKS:

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\* CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

K Sample was received past holding time.

L Value above calibration range but within annually verified linear range

Q Due to matrix effects, not all quality control parameters met acceptance criteria

MANAGER

DATE: 6/17/2009



LAB ID # 11216  
LAB ID # 11827

**Benchmark Analytics, Inc.**  
**Eastern Division**

2566 Pennsylvania Ave.  
Sayre, PA 18840

Phone: (570) 888-0169  
Fax: (570) 888-0717

Work Order: 09060589

SEND DATA TO:

NAME: Tom Delamarter  
COMPANY: Conklin, Town of  
ADDRESS: P.O. Box 182  
Conklin, NY 13748

WO#: 09060589

PAGE: 13 of 16

PO#:

PWS ID# Broome Co. DOH

PHONE: (607) 775-4584  
FAX: (607) 775-1434

**TEST REPORT**

Landfill

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DATE: 06/04/2009 9:11

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SAMPLE: **MW-38D**

Lab ID: 09060589-006D

Grab

SAMPLED BY: FC

Sample Time: 06/03/2009 14:00

SLOQ

<u>Test</u>	<u>Result</u>	<u>Method</u>		<u>Analysis Start</u>	<u>Analysis End</u>	<u>Analyst *</u>
Chloride	9.59 mg/L	EPA 300.0	0.25	06/10/09 14:32	06/10/09	LNP-CV
Sulfate	5.74 mg/L	EPA 300.0	0.25	06/10/09 14:32	06/10/09	LNP-CV
Bromide	0.09 mg/L	EPA 300.0	0.05	06/05/09 16:06	06/05/09	LNP-CV

SAMPLE: **MW-38D**

Lab ID: 09060589-006E

Grab

SAMPLED BY: FC

Sample Time: 06/03/2009 14:00

SLOQ

<u>Test</u>	<u>Result</u>	<u>Method</u>		<u>Analysis Start</u>	<u>Analysis End</u>	<u>Analyst *</u>
Nitrate as N	0.09 mg/L	EPA 353.2	0.05	06/05/09 12:00	06/05/09	IC-SA
Total Dissolved Solids	169 mg/L	SM2540C	10	06/08/09 10:00	06/10/09	NFM-SA

SAMPLE: **MW-38D**

Lab ID: 09060589-006F

Grab

SAMPLED BY: FC

Sample Time: 06/03/2009 14:00

SLOQ

<u>Test</u>	<u>Result</u>	<u>Method</u>		<u>Analysis Start</u>	<u>Analysis End</u>	<u>Analyst *</u>
Cadmium	< 0.001 mg/L	EPA 200.7	0.001	06/06/09 14:20	06/09/09	RMD-CV
Calcium	50.6 mg/L	EPA 200.7	0.100	06/06/09 14:20	06/09/09	RMD-CV
Iron	123 mg/L	EPA 200.7	0.020	06/06/09 14:20	06/09/09	RMD-CV
Lead	0.057 mg/L	EPA 200.7	0.010	06/06/09 14:20	06/09/09	RMD-CV
Magnesium	31.6 mg/L	EPA 200.7	0.030	06/06/09 14:20	06/09/09	RMD-CV
Manganese	4.32 mg/L	L EPA 200.7	0.002	06/06/09 14:20	06/09/09	RMD-CV
Potassium	7.14 mg/L	Q EPA 200.7	0.550	06/06/09 14:20	06/09/09	RMD-CV
Sodium	34.0 mg/L	L EPA 200.7	0.550	06/06/09 14:20	06/09/09	RMD-CV
Thallium	0.065 mg/L	EPA 200.7	0.025	06/06/09 14:20	06/09/09	RMD-CV
Vanadium	0.070 mg/L	EPA 200.7	0.010	06/06/09 14:20	06/09/09	RMD-CV
Zinc	0.293 mg/L	EPA 200.7	0.005	06/06/09 14:20	06/09/09	RMD-CV

REMARKS:

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K Sample was received past holding time.

L Value above calibration range but within annually verified linear range

Q Due to matrix effects, not all quality control parameters met acceptance criteria

MANAGER

DATE: 6/17/2009

LAB ID # 11216  
LAB ID # 11827

# Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave.  
Sayre, PA 18840

Work Order: 09060589

Phone: (570) 888-0169  
Fax: (570) 888-0717

SEND DATA TO:

NAME: Tom Delamarter  
COMPANY: Conklin, Town of  
ADDRESS: P.O. Box 182  
Conklin, NY 13748

WO#: 09060589

PAGE: 14 of 16

PO#:

PWS ID# Broome Co. DOH

PHONE: (607) 775-4584  
FAX: (607) 775-1434

## TEST REPORT

Landfill

RECEIVED FOR LAB BY: TJC

DATE: 06/04/2009 9:11

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Hardness, Calculation	256 mg/L	EPA 200.7	0.373	06/06/09 14:20	06/09/09	RMD-CV
SAMPLE: <b>MW-38D</b> Lab ID: 09060589-006G Grab						
SAMPLED BY: FC Sample Time: 06/03/2009 14:00						
<u>SLOQ</u>						
<u>Test</u>	<u>Result</u>	<u>Method</u>		<u>Analysis Start</u>	<u>Analysis End</u>	<u>Analyst *</u>
Phenol	< 0.025 mg/L	EPA 420.4	0.025	06/08/09 11:00	06/08/09	CMD-SA
SAMPLE: <b>MW-38D</b> Lab ID: 09060589-006H Grab						
SAMPLED BY: FC Sample Time: 06/03/2009 14:00						
<u>SLOQ</u>						
<u>Test</u>	<u>Result</u>	<u>Method</u>		<u>Analysis Start</u>	<u>Analysis End</u>	<u>Analyst *</u>
Total Kjeldahl Nitrogen	< 1.0 mg/L	Lachat	1.0	06/08/09 13:34	06/08/09	RHN-SA
SAMPLE: <b>MW-38D</b> Lab ID: 09060589-006I Grab						
SAMPLED BY: FC Sample Time: 06/03/2009 14:00						
<u>SLOQ</u>						
<u>Test</u>	<u>Result</u>	<u>Method</u>		<u>Analysis Start</u>	<u>Analysis End</u>	<u>Analyst *</u>
Total Organic Carbon	< 0.5 mg/L	SM5310C	0.5	06/15/09 14:40	06/16/09	JLK-SA
SAMPLE: <b>MW-37</b> Lab ID: 09060589-007A Grab						
SAMPLED BY: FC Sample Time: 06/03/2009 12:45						
<u>SLOQ</u>						
<u>Test</u>	<u>Result</u>	<u>Method</u>		<u>Analysis Start</u>	<u>Analysis End</u>	<u>Analyst *</u>
Alkalinity as CaCO3	106 mg/L	SM2320B	2	06/05/09 8:31	06/05/09	JLW-SA
SAMPLE: <b>MW-37</b> Lab ID: 09060589-007B Grab						
SAMPLED BY: FC Sample Time: 06/03/2009 12:45						
<u>SLOQ</u>						
<u>Test</u>	<u>Result</u>	<u>Method</u>		<u>Analysis Start</u>	<u>Analysis End</u>	<u>Analyst *</u>
Ammonia as N	< 0.1 mg/L	Lachat	0.1	06/04/09 9:00	06/04/09	CMD-SA
Chemical Oxygen Demand	< 10 mg/L	HACH 8000	10	06/09/09 10:00	06/09/09	JLK-SA

REMARKS:

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L Value above calibration range but within annually verified linear range

O Due to matrix effects, not all quality control parameters met acceptance criteria

MANAGER

DATE: 6/17/2009

LAB ID # 11216  
LAB ID # 11827

# Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave.  
Sayre, PA 18840

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Work Order: 09060589

SEND DATA TO:

NAME: Tom Delamarter  
COMPANY: Conklin, Town of  
ADDRESS: P.O. Box 182  
Conklin, NY 13748

WO#: 09060589

PAGE: 15 of 16

PO#:

PHONE: (607) 775-4584  
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## TEST REPORT

PWS ID# Broome Co. DOH

Landfill

RECEIVED FOR LAB BY: TJC

DATE: 06/04/2009 9:11

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SAMPLE: **MW-37** Lab ID: 09060589-007C Grab  
SAMPLED BY: FC Sample Time: 06/03/2009 12:45

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
BOD	< 6 mg/L	SM5210B	6	06/04/09 10:00	06/09/09	JP-SA
pH	7.74 @ 23.0 °C	K SM4500H+B		06/04/09 8:18	06/04/09	KMF-SA

SAMPLE: **MW-37** Lab ID: 09060589-007D Grab  
SAMPLED BY: FC Sample Time: 06/03/2009 12:45

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Chloride	7.54 mg/L	EPA 300.0	0.25	06/10/09 14:32	06/10/09	LNP-CV
Sulfate	12.9 mg/L	EPA 300.0	0.25	06/10/09 14:32	06/10/09	LNP-CV
Bromide	< 0.05 mg/L	EPA 300.0	0.05	06/05/09 16:06	06/05/09	LNP-CV

SAMPLE: **MW-37** Lab ID: 09060589-007E Grab  
SAMPLED BY: FC Sample Time: 06/03/2009 12:45

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Nitrate as N	0.16 mg/L	EPA 353.2	0.05	06/05/09 12:00	06/05/09	IC-SA
Total Dissolved Solids	166 mg/L	SM2540C	10	06/08/09 10:00	06/10/09	NFM-SA

SAMPLE: **MW-37** Lab ID: 09060589-007F Grab  
SAMPLED BY: FC Sample Time: 06/03/2009 12:45

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Cadmium	< 0.001 mg/L	EPA 200.7	0.001	06/06/09 14:20	06/09/09	RMD-CV
Calcium	40.7 mg/L	EPA 200.7	0.100	06/06/09 14:20	06/09/09	RMD-CV
Iron	0.556 mg/L	Q EPA 200.7	0.020	06/06/09 14:20	06/09/09	RMD-CV
Lead	< 0.010 mg/L	EPA 200.7	0.010	06/06/09 14:20	06/09/09	RMD-CV
Magnesium	6.39 mg/L	Q EPA 200.7	0.030	06/06/09 14:20	06/09/09	RMD-CV

REMARKS:

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Q Due to matrix effects, not all quality control parameters met acceptance criteria

MANAGER

DATE: 6/17/2009

LAB ID # 11216  
LAB ID # 11827

### Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave.  
Sayre, PA 18840

Phone: (570) 888-0169  
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Work Order: 09060589

SEND DATA TO:

NAME: Tom Delamarter  
COMPANY: Conklin, Town of  
ADDRESS: P.O. Box 182  
Conklin, NY 13748

WO#: 09060589

PAGE: 16 of 16

PO#:

PWS ID# Broome Co. DOH

PHONE: (607) 775-4584  
FAX: (607) 775-1434

### TEST REPORT

Landfill

RECEIVED FOR LAB BY: TJC

DATE: 06/04/2009 9:11

Page 16 of 16

Element	Concentration	Method	Result	Time	Date	Analyst
Manganese	0.025 mg/L	EPA 200.7	0.002	06/06/09 14:20	06/09/09	RMD-CV
Potassium	11.0 mg/L	EPA 200.7	0.550	06/06/09 14:20	06/09/09	RMD-CV
Sodium	10.3 mg/L	EPA 200.7	0.550	06/06/09 14:20	06/09/09	RMD-CV
Thallium	< 0.025 mg/L	EPA 200.7	0.025	06/06/09 14:20	06/09/09	RMD-CV
Vanadium	< 0.010 mg/L	EPA 200.7	0.010	06/06/09 14:20	06/09/09	RMD-CV
Zinc	0.007 mg/L	EPA 200.7	0.005	06/06/09 14:20	06/09/09	RMD-CV
Hardness, Calculation	128 mg/L	EPA 200.7	0.373	06/06/09 14:20	06/09/09	RMD-CV

SAMPLE: **MW-37** Lab ID: 09060589-007G Grab  
SAMPLED BY: FC Sample Time: 06/03/2009 12:45

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Phenol	< 0.025 mg/L	EPA 420.4	0.025	06/08/09 11:00	06/08/09	CMD-SA

SAMPLE: **MW-37** Lab ID: 09060589-007H Grab  
SAMPLED BY: FC Sample Time: 06/03/2009 12:45

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Total Kjeldahl Nitrogen	< 1.0 mg/L	Lachat	1.0	06/08/09 13:34	06/08/09	RHN-SA

SAMPLE: **MW-37** Lab ID: 09060589-007I Grab  
SAMPLED BY: FC Sample Time: 06/03/2009 12:45

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Total Organic Carbon	< 0.5 mg/L	SM5310C	0.5	06/15/09 14:40	06/16/09	JLK-SA

REMARKS:

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K Sample was received past holding time.

L Value above calibration range but within annually verified linear range

O Due to matrix effects, not all quality control parameters met acceptance criteria

MANAGER

DATE: 6/17/2009

LAB ID # 11216  
LAB ID # 11827

# Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave.  
Sayre, PA 18840

Work Order: 09083012

Phone: (570) 888-0169  
Fax: (570) 888-0717

SEND DATA TO:

NAME: Tom Delamarter  
COMPANY: Conklin, Town of  
ADDRESS: P.O. Box 182  
Conklin, NY 13748

WO#: 09083012

PAGE: 1 of 35

PO#:

PHONE: (607) 775-4584  
FAX: (607) 775-1434

## TEST REPORT

PWS ID# Broome Co. DOH

Landfill-Baseline

RECEIVED FOR LAB BY: DLM2

DATE: 08/19/2009 17:05

Page 1 of 35

SAMPLE: MW-3

Lab ID: 09083012-001A

Grab

SAMPLED BY: FC

Sample Time: 08/19/2009 12:45

SLOQ

Test	Result	Method		Analysis Start	Analysis End	Analyst *
Dichlorodifluoromethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Chloromethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Vinyl chloride	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Bromomethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Chloroethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Trichlorofluoromethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,1-Dichloroethene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Methylene chloride	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
2-Butanone	< 0.005 mg/L	EPA 8260B	0.005	08/21/09 15:07	08/22/09	MTB-CV
trans-1,2-Dichloroethene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,1-Dichloroethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
cis-1,2-Dichloroethene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Chloroform	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,1,1-Trichloroethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Carbon tetrachloride	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Benzene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,2-Dichloroethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Trichloroethene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,2-Dichloropropane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Dibromomethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Bromodichloromethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
cis-1,3-Dichloropropene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Toluene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
4-Methyl-2-pentanone (MIBK)	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
trans-1,3-Dichloropropene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV

REMARKS:

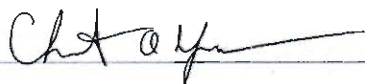
Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

\* CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

K Sample was received past holding time.

X Value exceeds Maximum Contaminant Level

MANAGER



DATE: 9/1/2009

LAB ID # 11216  
LAB ID # 11827

# Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave.  
Sayre, PA 18840

Phone: (570) 888-0169  
Fax: (570) 888-0717

Work Order: 09083012

SEND DATA TO:

NAME: Tom Delamarter  
COMPANY: Conklin, Town of  
ADDRESS: P.O. Box 182  
Conklin, NY 13748

WO#: 09083012

PAGE: 2 of 35

PO#:

PWS ID# Broome Co. DOH

PHONE: (607) 775-4584  
FAX: (607) 775-1434

## TEST REPORT

Landfill-Baseline

RECEIVED FOR LAB BY: DLM2

DATE: 08/19/2009 17:05

Page 2 of 35

Compound	Concentration	Method	Result	Time	Date	Lab
1,1,2-Trichloroethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Tetrachloroethene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Dibromochloromethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,2-Dibromoethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Chlorobenzene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,1,1,2-Tetrachloroethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Ethylbenzene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
m,p-Xylene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
o-Xylene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Xylenes, Total	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Bromoform	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,1,2,2-Tetrachloroethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,2,3-Trichloropropane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,3-Dichlorobenzene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,4-Dichlorobenzene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,2-Dichlorobenzene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV

SAMPLE: MW-3

Lab ID: 09083012-001B

Grab

SAMPLED BY: FC

Sample Time: 08/19/2009 12:45

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst*
Mercury	< 0.0002 mg/L	EPA 245.1	0.0002	08/24/09 10:55	08/24/09	KLB-CV
Aluminum	61.5 mg/L	EPA 200.7	0.050	08/22/09 9:20	08/24/09	RMD-CV
Antimony	< 0.020 mg/L	EPA 200.7	0.020	08/22/09 9:20	08/24/09	RMD-CV
Arsenic	0.039 mg/L	EPA 200.7	0.025	08/22/09 9:20	08/24/09	RMD-CV
Barium	0.868 mg/L	EPA 200.7	0.025	08/22/09 9:20	08/25/09	GSR-CV
Beryllium	0.004 mg/L	EPA 200.7	0.001	08/22/09 9:20	08/24/09	RMD-CV
Boron	< 0.100 mg/L	EPA 200.7	0.100	08/22/09 9:20	08/24/09	RMD-CV
Cadmium	< 0.001 mg/L	EPA 200.7	0.001	08/22/09 9:20	08/24/09	RMD-CV

REMARKS:

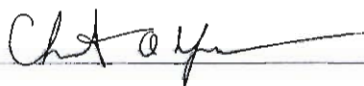
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K Sample was received past holding time.

X Value exceeds Maximum Contaminant Level

MANAGER



DATE: 9/1/2009

LAB ID # 11216  
LAB ID # 11827

**Benchmark Analytics, Inc.**  
**Eastern Division**

2566 Pennsylvania Ave.  
Sayre, PA 18840

Work Order: 09083012

Phone: (570) 888-0169  
Fax: (570) 888-0717

SEND DATA TO:

NAME: Tom Delamarter  
COMPANY: Conklin, Town of  
ADDRESS: P.O. Box 182  
Conklin, NY 13748

WO#: 09083012

PAGE: 3 of 35

PO#:

PWS ID# Broome Co. DOH

PHONE: (607) 775-4584  
FAX: (607) 775-1434

**TEST REPORT**

Landfill-Baseline

RECEIVED FOR LAB BY: DLM2

DATE: 08/19/2009 17:05

Page 3 of 35

Concentration	Method	Result	Unit	Time	Date	Analyst
Calcium	EPA 200.7	65.2	mg/L	08/22/09 9:20	08/24/09	RMD-CV
Chromium	EPA 200.7	0.065	mg/L	08/22/09 9:20	08/24/09	RMD-CV
Cobalt	EPA 200.7	0.071	mg/L	08/22/09 9:20	08/24/09	RMD-CV
Copper	EPA 200.7	0.132	mg/L	08/22/09 9:20	08/24/09	RMD-CV
Iron	EPA 200.7	114	mg/L	08/22/09 9:20	08/24/09	RMD-CV
Lead	EPA 200.7	0.077	mg/L	08/22/09 9:20	08/24/09	RMD-CV
Magnesium	EPA 200.7	30.6	mg/L	08/22/09 9:20	08/24/09	RMD-CV
Manganese	EPA 200.7	3.47	mg/L	08/22/09 9:20	08/25/09	GSR-CV
Nickel	EPA 200.7	0.119	mg/L	08/22/09 9:20	08/24/09	RMD-CV
Potassium	EPA 200.7	5.69	mg/L	08/22/09 9:20	08/25/09	GSR-CV
Selenium	EPA 200.7	< 0.040	mg/L	08/22/09 9:20	08/24/09	RMD-CV
Silver	EPA 200.7	0.002	mg/L	08/22/09 9:20	08/25/09	GSR-CV
Sodium	EPA 200.7	14.9	mg/L	08/22/09 9:20	08/25/09	GSR-CV
Thallium	EPA 200.7	< 0.025	mg/L	08/22/09 9:20	08/25/09	GSR-CV
Vanadium	EPA 200.7	0.078	mg/L	08/22/09 9:20	08/24/09	RMD-CV
Zinc	EPA 200.7	0.330	mg/L	08/22/09 9:20	08/24/09	RMD-CV
Hardness, Calculation	EPA 200.7	289	mg/L	08/22/09 9:20	08/24/09	RMD-CV

SAMPLE: **MW-3** Lab ID: 09083012-001C Grab  
SAMPLED BY: FC Sample Time: 08/19/2009 12:45

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Alkalinity as CaCO3	105 mg/L	SM2320B	2	08/20/09 13:00	08/20/09	KMF-SA

SAMPLE: **MW-3** Lab ID: 09083012-001D Grab  
SAMPLED BY: FC Sample Time: 08/19/2009 12:45

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Ammonia as N	0.1 mg/L	Lachat	0.1	08/20/09 11:09	08/20/09	JP-SA
Chemical Oxygen Demand	70 mg/L	HACH 8000	10	08/25/09 10:30	08/25/09	CMD-SA

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PAGE: 4 of 35

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## TEST REPORT

Landfill-Baseline

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Page 4 of 35

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
SAMPLE: MW-3 Lab ID: 09083012-001E Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 12:45						
BOD	< 6 mg/L	SM5210B	6	08/20/09 9:40	08/25/09	NFM-SA
pH	6.49 @ 22.9 °C	SM4500H+B		08/20/09 11:12	08/20/09	KMF-SA
SAMPLE: MW-3 Lab ID: 09083012-001F Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 12:45						
Bromide	0.11 mg/L	EPA 300.0	0.05	08/27/09 16:20	08/27/09	LNP-CV
SAMPLE: MW-3 Lab ID: 09083012-001G Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 12:45						
Chloride	16.3 mg/L	EPA 300.0	0.25	08/26/09 14:36	08/27/09	LNP-CV
Sulfate	16.0 mg/L	EPA 300.0	0.25	08/26/09 14:36	08/27/09	LNP-CV
SAMPLE: MW-3 Lab ID: 09083012-001H Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 12:45						
Total Dissolved Solids	16200 mg/L	SM2540C	10	08/24/09 8:00	08/25/09	NFM-SA
SAMPLE: MW-3 Lab ID: 09083012-001I Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 12:45						
Color	< 5 Pt Co	SM2120B	5	08/20/09 10:30	08/20/09	CMD-SA
Nitrate as N	< 0.05 mg/L	EPA 353.2	0.05	08/21/09 10:00	08/21/09	IC-SA

Sample Note: Color reported as true color.

REMARKS:

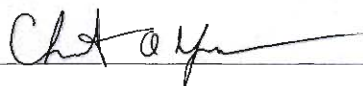
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## TEST REPORT

Landfill-Baseline

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Page 5 of 35

Test	Result	Method	SLOO	Analysis Start	Analysis End	Analyst *
SAMPLE: MW-3 Lab ID: 09083012-001J Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 12:45						
Cyanide (total)	< 0.010 mg/L	EPA 335.4	0.010	08/21/09 11:05	08/24/09	CMD-SA
SAMPLE: MW-3 Lab ID: 09083012-001K Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 12:45						
Hexavalent Chromium	< 0.01 mg/L	SM3500CrB	0.01	09/01/09 13:30	09/01/09	CMD-SA
SAMPLE: MW-3 Lab ID: 09083012-001L Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 12:45						
Phenol	< 0.025 mg/L	EPA 420.4	0.025	08/31/09 15:30	08/31/09	CMD-SA
SAMPLE: MW-3 Lab ID: 09083012-001M Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 12:45						
Total Kjeldahl Nitrogen	< 1.0 mg/L	Lachat	1.0	08/25/09 10:24	08/25/09	RHN-SA
SAMPLE: MW-3 Lab ID: 09083012-001N Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 12:45						
Total Organic Carbon	2.0 mg/L	SM5310C	0.5	08/25/09 11:00	08/25/09	CMD-SA
SAMPLE: MW-4 Lab ID: 09083012-002A Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 13:20						
Dichlorodifluoromethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV

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Landfill-Baseline

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Chloromethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Vinyl chloride	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Bromomethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Chloroethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Trichlorofluoromethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,1-Dichloroethene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Methylene chloride	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
2-Butanone	< 0.005 mg/L	EPA 8260B	0.005	08/21/09 15:07	08/22/09	MTB-CV
trans-1,2-Dichloroethene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,1-Dichloroethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
cis-1,2-Dichloroethene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Chloroform	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,1,1-Trichloroethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Carbon tetrachloride	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Benzene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,2-Dichloroethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Trichloroethene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,2-Dichloropropane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Dibromomethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Bromodichloromethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
cis-1,3-Dichloropropene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Toluene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
4-Methyl-2-pentanone (MIBK)	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
trans-1,3-Dichloropropene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,1,2-Trichloroethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Tetrachloroethene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Dibromochloromethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,2-Dibromoethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV

REMARKS:

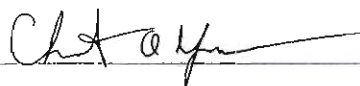
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LAB ID # 11216  
LAB ID # 11827

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2566 Pennsylvania Ave.  
Sayre, PA 18840

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Fax: (570) 888-0717

Work Order: 09083012

SEND DATA TO:

NAME: Tom Delamarter  
COMPANY: Conklin, Town of  
ADDRESS: P.O. Box 182  
Conklin, NY 13748

WO#: 09083012

PAGE: 7 of 35

PO#:

PWS ID# Broome Co. DOH

PHONE: (607) 775-4584  
FAX: (607) 775-1434

## TEST REPORT

Landfill-Baseline

RECEIVED FOR LAB BY: DLM2

DATE: 08/19/2009 17:05

Page 7 of 35

Compound	Result	Method	Concentration	Date/Time	Date/Time	Lab
Chlorobenzene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,1,1,2-Tetrachloroethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Ethylbenzene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
m,p-Xylene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
o-Xylene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Xylenes, Total	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Bromoform	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,1,2,2-Tetrachloroethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,2,3-Trichloropropane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,3-Dichlorobenzene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,4-Dichlorobenzene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,2-Dichlorobenzene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV

SAMPLE: MW-4

Lab ID: 09083012-002B

Grab

SAMPLED BY: FC

Sample Time: 08/19/2009 13:20

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Mercury	< 0.0002 mg/L	EPA 245.1	0.0002	08/24/09 10:55	08/24/09	KLB-CV
Aluminum	21.1 mg/L	EPA 200.7	0.050	08/22/09 9:20	08/24/09	RMD-CV
Antimony	< 0.020 mg/L	EPA 200.7	0.020	08/22/09 9:20	08/24/09	RMD-CV
Arsenic	< 0.025 mg/L	EPA 200.7	0.025	08/22/09 9:20	08/24/09	RMD-CV
Barium	0.229 mg/L	EPA 200.7	0.005	08/22/09 9:20	08/24/09	RMD-CV
Beryllium	< 0.001 mg/L	EPA 200.7	0.001	08/22/09 9:20	08/24/09	RMD-CV
Boron	< 0.100 mg/L	EPA 200.7	0.100	08/22/09 9:20	08/24/09	RMD-CV
Cadmium	< 0.001 mg/L	EPA 200.7	0.001	08/22/09 9:20	08/24/09	RMD-CV
Calcium	31.9 mg/L	EPA 200.7	0.100	08/22/09 9:20	08/24/09	RMD-CV
Chromium	0.021 mg/L	EPA 200.7	0.010	08/22/09 9:20	08/24/09	RMD-CV
Cobalt	0.081 mg/L	EPA 200.7	0.010	08/22/09 9:20	08/24/09	RMD-CV
Copper	0.035 mg/L	EPA 200.7	0.010	08/22/09 9:20	08/24/09	RMD-CV

REMARKS:

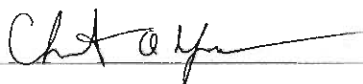
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PAGE: 8 of 35

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## TEST REPORT

Landfill-Baseline

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Page 8 of 35

Parameter	Result	Method	Concentration	Time	Date	Analysis Date	Analysis Type
Iron	44.7 mg/L	EPA 200.7	0.020	08/22/09 9:20	08/24/09	RMD-CV	
Lead	0.060 mg/L	EPA 200.7	0.010	08/22/09 9:20	08/24/09	RMD-CV	
Magnesium	13.8 mg/L	EPA 200.7	0.030	08/22/09 9:20	08/24/09	RMD-CV	
Manganese	6.35 mg/L	EPA 200.7	0.018	08/22/09 9:20	08/25/09	GSR-CV	
Nickel	0.046 mg/L	EPA 200.7	0.010	08/22/09 9:20	08/24/09	RMD-CV	
Potassium	3.50 mg/L	EPA 200.7	0.550	08/22/09 9:20	08/24/09	RMD-CV	
Selenium	< 0.040 mg/L	EPA 200.7	0.040	08/22/09 9:20	08/24/09	RMD-CV	
Silver	< 0.002 mg/L	EPA 200.7	0.002	08/22/09 9:20	08/25/09	GSR-CV	
Sodium	6.24 mg/L	EPA 200.7	0.550	08/22/09 9:20	08/24/09	RMD-CV	
Thallium	< 0.025 mg/L	EPA 200.7	0.025	08/22/09 9:20	08/25/09	GSR-CV	
Vanadium	0.027 mg/L	EPA 200.7	0.010	08/22/09 9:20	08/24/09	RMD-CV	
Zinc	0.123 mg/L	EPA 200.7	0.005	08/22/09 9:20	08/24/09	RMD-CV	
Hardness, Calculation	137 mg/L	EPA 200.7	0.373	08/22/09 9:20	08/24/09	RMD-CV	

SAMPLE: MW-4 Lab ID: 09083012-002C Grab

SAMPLED BY: FC Sample Time: 08/19/2009 13:20

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Alkalinity as CaCO3	95 mg/L	SM2320B	2	08/20/09 13:00	08/20/09	KMF-SA

SAMPLE: MW-4 Lab ID: 09083012-002D Grab

SAMPLED BY: FC Sample Time: 08/19/2009 13:20

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Ammonia as N	< 0.1 mg/L	Lachat	0.1	08/20/09 11:09	08/20/09	JP-SA
Chemical Oxygen Demand	41 mg/L	HACH 8000	10	08/25/09 10:30	08/25/09	CMD-SA

SAMPLE: MW-4 Lab ID: 09083012-002E Grab

SAMPLED BY: FC Sample Time: 08/19/2009 13:20

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
BOD	< 6 mg/L	SM5210B	6	08/20/09 9:40	08/25/09	NFM-SA

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PAGE: 9 of 35

PO#:

PHONE: (607) 775-4584  
FAX: (607) 775-1434

## TEST REPORT

PWS ID# Broome Co. DOH

Landfill-Baseline

RECEIVED FOR LAB BY: DLM2

DATE: 08/19/2009 17:05

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pH	6.76 @ 22.8 °C	K	SM4500H+B	08/20/09 11:12	08/20/09	KMF-SA
SAMPLE: MW-4		Lab ID: 09083012-002F		Grab		
SAMPLED BY: FC		Sample Time: 08/19/2009 13:20		SLOQ		
Test	Result	Method		Analysis Start	Analysis End	Analyst *
Bromide	0.06 mg/L	EPA 300.0	0.05	08/27/09 16:20	08/27/09	LNP-CV
SAMPLE: MW-4		Lab ID: 09083012-002G		Grab		
SAMPLED BY: FC		Sample Time: 08/19/2009 13:20		SLOQ		
Test	Result	Method		Analysis Start	Analysis End	Analyst *
Chloride	13.7 mg/L	EPA 300.0	0.25	08/26/09 14:36	08/27/09	LNP-CV
Sulfate	10.1 mg/L	EPA 300.0	0.25	08/26/09 14:36	08/27/09	LNP-CV
SAMPLE: MW-4		Lab ID: 09083012-002H		Grab		
SAMPLED BY: FC		Sample Time: 08/19/2009 13:20		SLOQ		
Test	Result	Method		Analysis Start	Analysis End	Analyst *
Total Dissolved Solids	1060 mg/L	SM2540C	10	08/24/09 8:00	08/25/09	NFM-SA
SAMPLE: MW-4		Lab ID: 09083012-002I		Grab		
SAMPLED BY: FC		Sample Time: 08/19/2009 13:20		SLOQ		
Test	Result	Method		Analysis Start	Analysis End	Analyst *
Color	5 Pt Co	SM2120B	5	08/20/09 10:30	08/20/09	CMD-SA
Nitrate as N	0.20 mg/L	EPA 353.2	0.05	08/21/09 10:00	08/21/09	IC-SA
Sample Note: Color reported as true color.						
SAMPLE: MW-4		Lab ID: 09083012-002J		Grab		
SAMPLED BY: FC		Sample Time: 08/19/2009 13:20		SLOQ		
Test	Result	Method		Analysis Start	Analysis End	Analyst *
Cyanide (total)	< 0.010 mg/L	EPA 335.4	0.010	08/21/09 11:05	08/24/09	CMD-SA

REMARKS:

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\* CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

K Sample was received past holding time.

X Value exceeds Maximum Contaminant Level

MANAGER

DATE: 9/1/2009

LAB ID # 11216  
LAB ID # 11827

# Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave.  
Sayre, PA 18840

Phone: (570) 888-0169  
Fax: (570) 888-0717

Work Order: 09083012

SEND DATA TO:

NAME: Tom Delamarter  
COMPANY: Conklin, Town of  
ADDRESS: P.O. Box 182  
Conklin, NY 13748

WO#: 09083012

PAGE: 10 of 35

PO#:

PWS ID# Broome Co. DOH

PHONE: (607) 775-4584  
FAX: (607) 775-1434

## TEST REPORT

Landfill-Baseline

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Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
SAMPLE: MW-4 Lab ID: 09083012-002K Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 13:20						
Hexavalent Chromium	< 0.01 mg/L	SM3500CrB	0.01	09/01/09 13:30	09/01/09	CMD-SA
SAMPLE: MW-4 Lab ID: 09083012-002L Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 13:20						
Phenol	0.046 mg/L	EPA 420.4	0.025	08/31/09 15:30	08/31/09	CMD-SA
SAMPLE: MW-4 Lab ID: 09083012-002M Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 13:20						
Total Kjeldahl Nitrogen	< 1.0 mg/L	Lachat	1.0	08/25/09 10:24	08/25/09	RHN-SA
SAMPLE: MW-4 Lab ID: 09083012-002N Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 13:20						
Total Organic Carbon	0.6 mg/L	SM5310C	0.5	08/25/09 11:00	08/25/09	CMD-SA
SAMPLE: MW-12 Lab ID: 09083012-003A Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 11:25						
Dichlorodifluoromethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Chloromethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Vinyl chloride	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Bromomethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Chloroethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV

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**TEST REPORT**

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Trichlorofluoromethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,1-Dichloroethene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Methylene chloride	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
2-Butanone	< 0.005 mg/L	EPA 8260B	0.005	08/21/09 15:07	08/22/09	MTB-CV
trans-1,2-Dichloroethene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,1-Dichloroethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
cis-1,2-Dichloroethene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Chloroform	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,1,1-Trichloroethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Carbon tetrachloride	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Benzene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,2-Dichloroethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Trichloroethene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,2-Dichloropropane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Dibromomethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Bromodichloromethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
cis-1,3-Dichloropropene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Toluene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
4-Methyl-2-pentanone (MIBK)	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
trans-1,3-Dichloropropene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,1,2-Trichloroethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Tetrachloroethene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Dibromochloromethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,2-Dibromoethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Chlorobenzene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,1,1,2-Tetrachloroethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Ethylbenzene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
m,p-Xylene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV

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LAB ID # 11827

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**Eastern Division**

2566 Pennsylvania Ave.  
Sayre, PA 18840

Phone: (570) 888-0169  
Fax: (570) 888-0717

Work Order: 09083012

SEND DATA TO:

NAME: Tom Delamarter  
COMPANY: Conklin, Town of  
ADDRESS: P.O. Box 182  
Conklin, NY 13748

WO#: 09083012

PAGE: 12 of 35

PO#:

PHONE: (607) 775-4584  
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**TEST REPORT**

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Landfill-Baseline

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Component	Concentration	Method	Result	Time	Date	Lab
o-Xylene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Xylenes, Total	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Bromoform	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,1,2,2-Tetrachloroethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,2,3-Trichloropropane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,3-Dichlorobenzene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,4-Dichlorobenzene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,2-Dichlorobenzene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV

SAMPLE: MW-12

Lab ID: 09083012-003B

Grab

SAMPLED BY: FC

Sample Time: 08/19/2009 11:25

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst
Mercury	0.0002 mg/L	EPA 245.1	0.0002	08/24/09 10:55	08/24/09	KLB-CV
Aluminum	60.9 mg/L	EPA 200.7	0.050	08/22/09 9:20	08/24/09	RMD-CV
Antimony	< 0.020 mg/L	EPA 200.7	0.020	08/22/09 9:20	08/24/09	RMD-CV
Arsenic	0.102 mg/L	EPA 200.7	0.025	08/22/09 9:20	08/24/09	RMD-CV
Barium	0.449 mg/L	EPA 200.7	0.005	08/22/09 9:20	08/24/09	RMD-CV
Beryllium	0.003 mg/L	EPA 200.7	0.001	08/22/09 9:20	08/24/09	RMD-CV
Boron	< 0.100 mg/L	EPA 200.7	0.100	08/22/09 9:20	08/24/09	RMD-CV
Cadmium	< 0.001 mg/L	EPA 200.7	0.001	08/22/09 9:20	08/24/09	RMD-CV
Calcium	43.2 mg/L	EPA 200.7	0.100	08/22/09 9:20	08/24/09	RMD-CV
Chromium	0.066 mg/L	EPA 200.7	0.010	08/22/09 9:20	08/24/09	RMD-CV
Cobalt	0.048 mg/L	EPA 200.7	0.010	08/22/09 9:20	08/24/09	RMD-CV
Copper	0.151 mg/L	EPA 200.7	0.010	08/22/09 9:20	08/24/09	RMD-CV
Iron	138 mg/L	EPA 200.7	0.020	08/22/09 9:20	08/24/09	RMD-CV
Lead	0.075 mg/L	EPA 200.7	0.010	08/22/09 9:20	08/24/09	RMD-CV
Magnesium	26.5 mg/L	EPA 200.7	0.030	08/22/09 9:20	08/24/09	RMD-CV
Manganese	12.4 mg/L	EPA 200.7	0.034	08/22/09 9:20	08/25/09	GSR-CV

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LAB ID # 11216  
LAB ID # 11827

# Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave.  
Sayre, PA 18840

Phone: (570) 888-0169

Fax: (570) 888-0717

Work Order: 09083012

SEND DATA TO:

NAME: Tom Delamarter  
COMPANY: Conklin, Town of  
ADDRESS: P.O. Box 182  
Conklin, NY 13748

WO#: 09083012

PAGE: 13 of 35

PO#:

PHONE: (607) 775-4584

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## TEST REPORT

PWS ID# Broome Co. DOH

Landfill-Baseline

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Page 13 of 35

Element	Concentration	Method	Result	Time	Date	Analyst
Nickel	0.108 mg/L	EPA 200.7	0.010	08/22/09 9:20	08/24/09	RMD-CV
Potassium	5.53 mg/L	EPA 200.7	0.550	08/22/09 9:20	08/24/09	RMD-CV
Selenium	< 0.040 mg/L	EPA 200.7	0.040	08/22/09 9:20	08/24/09	RMD-CV
Silver	0.004 mg/L	EPA 200.7	0.002	08/22/09 9:20	08/25/09	GSR-CV
Sodium	10.2 mg/L	EPA 200.7	0.550	08/22/09 9:20	08/24/09	RMD-CV
Thallium	< 0.025 mg/L	EPA 200.7	0.025	08/22/09 9:20	08/25/09	GSR-CV
Vanadium	0.065 mg/L	EPA 200.7	0.010	08/22/09 9:20	08/24/09	RMD-CV
Zinc	0.300 mg/L	EPA 200.7	0.005	08/22/09 9:20	08/24/09	RMD-CV
Hardness, Calculation	217 mg/L	EPA 200.7	0.373	08/22/09 9:20	08/24/09	RMD-CV

SAMPLE: **MW-12** Lab ID: 09083012-003C Grab  
SAMPLED BY: FC Sample Time: 08/19/2009 11:25

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Alkalinity as CaCO3	120 mg/L	SM2320B	2	08/20/09 13:00	08/20/09	KMF-SA

SAMPLE: **MW-12** Lab ID: 09083012-003D Grab  
SAMPLED BY: FC Sample Time: 08/19/2009 11:25

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Ammonia as N	< 0.1 mg/L	Lachat	0.1	08/20/09 11:09	08/20/09	JP-SA
Chemical Oxygen Demand	51 mg/L	HACH 8000	10	08/25/09 10:30	08/25/09	CMD-SA

SAMPLE: **MW-12** Lab ID: 09083012-003E Grab  
SAMPLED BY: FC Sample Time: 08/19/2009 11:25

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
BOD	< 6 mg/L	SM5210B	6	08/20/09 9:40	08/25/09	NFM-SA
pH	6.53 @ 22.8 °C	SM4500H+B		08/20/09 11:12	08/20/09	KMF-SA

REMARKS:

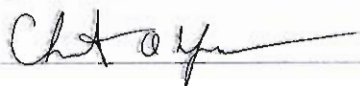
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Page 14 of 35

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
SAMPLE: MW-12 Lab ID: 09083012-003F Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 11:25						
Bromide	0.27 mg/L	EPA 300.0	0.05	08/27/09 16:20	08/27/09	LNP-CV
SAMPLE: MW-12 Lab ID: 09083012-003G Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 11:25						
Chloride	6.35 mg/L	EPA 300.0	0.25	08/26/09 14:36	08/27/09	LNP-CV
Sulfate	15.7 mg/L	EPA 300.0	0.25	08/26/09 14:36	08/27/09	LNP-CV
SAMPLE: MW-12 Lab ID: 09083012-003H Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 11:25						
Total Dissolved Solids	553 mg/L	x SM2540C	10	08/24/09 8:00	08/25/09	NFM-SA
SAMPLE: MW-12 Lab ID: 09083012-003I Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 11:25						
Color	< 5 Pt Co	SM2120B	5	08/20/09 10:30	08/20/09	CMD-SA
Nitrate as N	0.08 mg/L	EPA 353.2	0.05	08/21/09 10:00	08/21/09	IC-SA
Sample Note: Color reported as true color.						
SAMPLE: MW-12 Lab ID: 09083012-003J Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 11:25						
Cyanide (total)	< 0.010 mg/L	EPA 335.4	0.010	08/21/09 11:05	08/24/09	CMD-SA

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Page 15 of 35

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
SAMPLE: MW-12 Lab ID: 09083012-003K Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 11:25						
Hexavalent Chromium	< 0.01 mg/L	SM3500CrB	0.01	09/01/09 13:30	09/01/09	CMD-SA
SAMPLE: MW-12 Lab ID: 09083012-003L Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 11:25						
Phenol	0.060 mg/L	EPA 420.4	0.025	08/31/09 15:30	08/31/09	CMD-SA
SAMPLE: MW-12 Lab ID: 09083012-003M Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 11:25						
Total Kjeldahl Nitrogen	< 1.0 mg/L	Lachat	1.0	08/25/09 10:24	08/25/09	RHN-SA
SAMPLE: MW-12 Lab ID: 09083012-003N Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 11:25						
Total Organic Carbon	3.2 mg/L	SM5310C	0.5	08/25/09 11:00	08/25/09	CMD-SA
SAMPLE: MW-37 Lab ID: 09083012-004A Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 12:10						
Dichlorodifluoromethane	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
Chloromethane	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
Vinyl chloride	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
Bromomethane	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
Chloroethane	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV

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Landfill-Baseline

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DATE: 08/19/2009 17:05

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Trichlorofluoromethane	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
1,1-Dichloroethene	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
Methylene chloride	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
2-Butanone	< 0.005 mg/L	EPA 8260B	0.005	08/25/09 11:29	08/25/09	MTB-CV
trans-1,2-Dichloroethene	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
1,1-Dichloroethane	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
cis-1,2-Dichloroethene	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
Chloroform	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
1,1,1-Trichloroethane	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
Carbon tetrachloride	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
Benzene	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
1,2-Dichloroethane	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
Trichloroethene	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
1,2-Dichloropropane	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
Dibromomethane	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
Bromodichloromethane	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
cis-1,3-Dichloropropene	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
Toluene	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
4-Methyl-2-pentanone (MIBK)	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
trans-1,3-Dichloropropene	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
1,1,2-Trichloroethane	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
Tetrachloroethene	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
Dibromochloromethane	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
1,2-Dibromoethane	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
Chlorobenzene	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
1,1,1,2-Tetrachloroethane	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
Ethylbenzene	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
m,p-Xylene	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV

REMARKS:

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\* CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

K Sample was received past holding time.

X Value exceeds Maximum Contaminant Level

MANAGER

DATE: 9/1/2009

LAB ID # 11216  
LAB ID # 11827

**Benchmark Analytics, Inc.**  
**Eastern Division**

2566 Pennsylvania Ave.  
Sayre, PA 18840

Phone: (570) 888-0169  
Fax: (570) 888-0717

Work Order: 09083012

SEND DATA TO:

NAME: Tom Delamarter  
COMPANY: Conklin, Town of  
ADDRESS: P.O. Box 182  
Conklin, NY 13748

WO#: 09083012

PAGE: 17 of 35

PO#:

PWS ID# Broome Co. DOH

PHONE: (607) 775-4584  
FAX: (607) 775-1434

**TEST REPORT**

Landfill-Baseline

RECEIVED FOR LAB BY: DLM2

DATE: 08/19/2009 17:05

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Component	Concentration	Method	Result	Start	End	Analyst
o-Xylene	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
Xylenes, Total	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
Bromoform	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
1,1,2,2-Tetrachloroethane	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
1,2,3-Trichloropropane	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
1,3-Dichlorobenzene	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
1,4-Dichlorobenzene	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
1,2-Dichlorobenzene	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV

SAMPLE: MW-37

Lab ID: 09083012-004B

Grab

SAMPLED BY: FC

Sample Time: 08/19/2009 12:10

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst
Mercury	< 0.0002 mg/L	EPA 245.1	0.0002	08/24/09 10:55	08/24/09	KLB-CV
Aluminum	26.1 mg/L	EPA 200.7	0.050	08/22/09 9:20	08/24/09	RMD-CV
Antimony	< 0.020 mg/L	EPA 200.7	0.020	08/22/09 9:20	08/24/09	RMD-CV
Arsenic	0.027 mg/L	EPA 200.7	0.025	08/22/09 9:20	08/24/09	RMD-CV
Barium	0.158 mg/L	EPA 200.7	0.005	08/22/09 9:20	08/24/09	RMD-CV
Beryllium	< 0.001 mg/L	EPA 200.7	0.001	08/22/09 9:20	08/24/09	RMD-CV
Boron	< 0.100 mg/L	EPA 200.7	0.100	08/22/09 9:20	08/24/09	RMD-CV
Cadmium	< 0.001 mg/L	EPA 200.7	0.001	08/22/09 9:20	08/24/09	RMD-CV
Calcium	44.6 mg/L	EPA 200.7	0.100	08/22/09 9:20	08/24/09	RMD-CV
Chromium	0.058 mg/L	EPA 200.7	0.010	08/22/09 9:20	08/24/09	RMD-CV
Cobalt	0.025 mg/L	EPA 200.7	0.010	08/22/09 9:20	08/24/09	RMD-CV
Copper	0.035 mg/L	EPA 200.7	0.010	08/22/09 9:20	08/24/09	RMD-CV
Iron	56.2 mg/L	EPA 200.7	0.020	08/22/09 9:20	08/24/09	RMD-CV
Lead	0.026 mg/L	EPA 200.7	0.010	08/22/09 9:20	08/24/09	RMD-CV
Magnesium	15.1 mg/L	EPA 200.7	0.030	08/22/09 9:20	08/24/09	RMD-CV
Manganese	1.18 mg/L	EPA 200.7	0.010	08/22/09 9:20	08/25/09	GSR-CV

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K Sample was received past holding time.

X Value exceeds Maximum Contaminant Level

MANAGER

DATE: 9/1/2009

LAB ID # 11216  
LAB ID # 11827

# Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave.  
Sayre, PA 18840

Phone: (570) 888-0169  
Fax: (570) 888-0717

Work Order: 09083012

SEND DATA TO:

NAME: Tom Delamarter  
COMPANY: Conklin, Town of  
ADDRESS: P.O. Box 182  
Conklin, NY 13748

WO#: 09083012

PAGE: 18 of 35

PO#:

PWS ID# Broome Co. DOH

PHONE: (607) 775-4584  
FAX: (607) 775-1434

## TEST REPORT

Landfill-Baseline

RECEIVED FOR LAB BY: DLM2

DATE: 08/19/2009 17:05

Page 18 of 35

Concentration	Method	Result	Method	Analysis Start	Analysis End	Analyst
Nickel	EPA 200.7	0.053 mg/L	0.010	08/22/09 9:20	08/24/09	RMD-CV
Potassium	EPA 200.7	9.60 mg/L	0.550	08/22/09 9:20	08/24/09	RMD-CV
Selenium	EPA 200.7	< 0.040 mg/L	0.040	08/22/09 9:20	08/24/09	RMD-CV
Silver	EPA 200.7	< 0.002 mg/L	0.002	08/22/09 9:20	08/25/09	GSR-CV
Sodium	EPA 200.7	8.97 mg/L	0.550	08/22/09 9:20	08/24/09	RMD-CV
Thallium	EPA 200.7	< 0.025 mg/L	0.025	08/22/09 9:20	08/25/09	GSR-CV
Vanadium	EPA 200.7	0.034 mg/L	0.010	08/22/09 9:20	08/24/09	RMD-CV
Zinc	EPA 200.7	0.135 mg/L	0.005	08/22/09 9:20	08/24/09	RMD-CV
Hardness, Calculation	EPA 200.7	173 mg/L	0.373	08/22/09 9:20	08/24/09	RMD-CV

SAMPLE: **MW-37** Lab ID: 09083012-004C Grab  
SAMPLED BY: FC Sample Time: 08/19/2009 12:10

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst
Alkalinity as CaCO3	133 mg/L	SM2320B	2	08/20/09 13:00	08/20/09	KMF-SA

SAMPLE: **MW-37** Lab ID: 09083012-004D Grab  
SAMPLED BY: FC Sample Time: 08/19/2009 12:10

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst
Ammonia as N	< 0.1 mg/L	Lachat	0.1	08/20/09 11:09	08/20/09	JP-SA
Chemical Oxygen Demand	48 mg/L	HACH 8000	10	08/25/09 10:30	08/25/09	CMD-SA

SAMPLE: **MW-37** Lab ID: 09083012-004E Grab  
SAMPLED BY: FC Sample Time: 08/19/2009 12:10

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst
BOD	< 6 mg/L	SM5210B	6	08/20/09 9:40	08/25/09	NFM-SA
pH	7.55 @ 22.7 °C	SM4500H+B	K	08/20/09 11:12	08/20/09	KMF-SA

REMARKS:

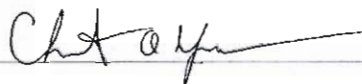
Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

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X Value exceeds Maximum Contaminant Level

MANAGER



DATE: 9/1/2009

LAB ID # 11216  
LAB ID # 11827

# Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave.  
Sayre, PA 18840

Phone: (570) 888-0169

Fax: (570) 888-0717

Work Order: 09083012

SEND DATA TO:

NAME: Tom Delamarter  
COMPANY: Conklin, Town of  
ADDRESS: P.O. Box 182  
Conklin, NY 13748

WO#: 09083012

PAGE: 19 of 35

PO#:

PWS ID# Broome Co. DOH

PHONE: (607) 775-4584  
FAX: (607) 775-1434

## TEST REPORT

Landfill-Baseline

RECEIVED FOR LAB BY: DLM2

DATE: 08/19/2009 17:05

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Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
SAMPLE: MW-37 Lab ID: 09083012-004F Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 12:10						
Bromide	< 0.05 mg/L	EPA 300.0	0.05	08/27/09 16:20	08/27/09	LNP-CV
SAMPLE: MW-37 Lab ID: 09083012-004G Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 12:10						
Chloride	6.90 mg/L	EPA 300.0	0.25	08/26/09 14:36	08/27/09	LNP-CV
Sulfate	12.9 mg/L	EPA 300.0	0.25	08/26/09 14:36	08/27/09	LNP-CV
SAMPLE: MW-37 Lab ID: 09083012-004H Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 12:10						
Total Dissolved Solids	296 mg/L	SM2540C	10	08/24/09 8:00	08/25/09	NFM-SA
SAMPLE: MW-37 Lab ID: 09083012-004I Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 12:10						
Color	< 5 Pt Co	SM2120B	5	08/20/09 10:30	08/20/09	CMD-SA
Nitrate as N	0.13 mg/L	EPA 353.2	0.05	08/21/09 10:00	08/21/09	IC-SA
Sample Note: Color reported as true color.						
SAMPLE: MW-37 Lab ID: 09083012-004J Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 12:10						
Cyanide (total)	< 0.010 mg/L	EPA 335.4	0.010	08/21/09 11:05	08/24/09	CMD-SA

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MANAGER

DATE: 9/1/2009

LAB ID # 11216  
LAB ID # 11827

# Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave.  
Sayre, PA 18840

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Work Order: 09083012

SEND DATA TO:

NAME: Tom Delamarter  
COMPANY: Conklin, Town of  
ADDRESS: P.O. Box 182  
Conklin, NY 13748

WO#: 09083012  
PAGE: 20 of 35  
PO#:  
PWS ID# Broome Co. DOH

PHONE: (607) 775-4584  
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## TEST REPORT

Landfill-Baseline

RECEIVED FOR LAB BY: DLM2

DATE: 08/19/2009 17:05

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Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
SAMPLE: <b>MW-37</b> Lab ID: 09083012-004K Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 12:10						
Hexavalent Chromium	< 0.01 mg/L	SM3500CrB	0.01	09/01/09 13:30	09/01/09	CMD-SA
SAMPLE: <b>MW-37</b> Lab ID: 09083012-004L Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 12:10						
Phenol	0.028 mg/L	EPA 420.4	0.025	08/31/09 15:30	08/31/09	CMD-SA
SAMPLE: <b>MW-37</b> Lab ID: 09083012-004M Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 12:10						
Total Kjeldahl Nitrogen	< 1.0 mg/L	Lachat	1.0	08/25/09 10:24	08/25/09	RHN-SA
SAMPLE: <b>MW-37</b> Lab ID: 09083012-004N Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 12:10						
Total Organic Carbon	0.7 mg/L	SM5310C	0.5	08/25/09 11:00	08/25/09	CMD-SA
SAMPLE: <b>MW-38D</b> Lab ID: 09083012-005A Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 14:25						
Dichlorodifluoromethane	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
Chloromethane	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
Vinyl chloride	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
Bromomethane	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
Chloroethane	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV

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MANAGER

DATE: 9/1/2009



LAB ID # 11216  
LAB ID # 11827

# Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave.  
Sayre, PA 18840

Work Order: 09083012

Phone: (570) 888-0169  
Fax: (570) 888-0717

SEND DATA TO:

NAME: Tom Delamarter  
COMPANY: Conklin, Town of  
ADDRESS: P.O. Box 182  
Conklin, NY 13748

WO#: 09083012

PAGE: 21 of 35

PO#:

PHONE: (607) 775-4584  
FAX: (607) 775-1434

## TEST REPORT

PWS ID# Broome Co. DOH

Landfill-Baseline

RECEIVED FOR LAB BY: DLM2

DATE: 08/19/2009 17:05

Page 21 of 35

Trichlorofluoromethane	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
1,1-Dichloroethene	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
Methylene chloride	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
2-Butanone	< 0.005 mg/L	EPA 8260B	0.005	08/25/09 11:29	08/25/09	MTB-CV
trans-1,2-Dichloroethene	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
1,1-Dichloroethane	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
cis-1,2-Dichloroethene	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
Chloroform	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
1,1,1-Trichloroethane	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
Carbon tetrachloride	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
Benzene	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
1,2-Dichloroethane	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
Trichloroethene	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
1,2-Dichloropropane	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
Dibromomethane	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
Bromodichloromethane	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
cis-1,3-Dichloropropene	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
Toluene	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
4-Methyl-2-pentanone (MIBK)	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
trans-1,3-Dichloropropene	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
1,1,2-Trichloroethane	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
Tetrachloroethene	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
Dibromochloromethane	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
1,2-Dibromoethane	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
Chlorobenzene	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
1,1,1,2-Tetrachloroethane	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
Ethylbenzene	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
m,p-Xylene	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV

REMARKS:

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LAB ID # 11827

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Work Order: 09083012

SEND DATA TO:

NAME: Tom Delamarter  
COMPANY: Conklin, Town of  
ADDRESS: P.O. Box 182  
Conklin, NY 13748

WO#: 09083012  
PAGE: 22 of 35  
PO#:

PHONE: (607) 775-4584  
FAX: (607) 775-1434

**TEST REPORT**

PWS ID# Broome Co. DOH

Landfill-Baseline

RECEIVED FOR LAB BY: DLM2

DATE: 08/19/2009 17:05

Page 22 of 35

Component	Concentration	Method	Concentration	Date/Time	Date/Time	Analyst
o-Xylene	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
Xylenes, Total	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
Bromofom	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
1,1,2,2-Tetrachloroethane	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
1,2,3-Trichloropropane	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
1,3-Dichlorobenzene	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
1,4-Dichlorobenzene	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV
1,2-Dichlorobenzene	< 0.001 mg/L	EPA 8260B	0.001	08/25/09 11:29	08/25/09	MTB-CV

SAMPLE: MW-38D

Lab ID: 09083012-005B

Grab

SAMPLED BY: FC

Sample Time: 08/19/2009 14:25

SLOQ

Test	Result	Method	Concentration	Analysis Start	Analysis End	Analyst *
Mercury	0.0004 mg/L	EPA 245.1	0.0002	08/24/09 10:55	08/24/09	KLB-CV
Aluminum	276 mg/L	EPA 200.7	0.250	08/22/09 9:20	08/25/09	GSR-CV
Antimony	< 0.100 mg/L	EPA 200.7	0.100	08/22/09 9:20	08/25/09	GSR-CV
Arsenic	0.175 mg/L	EPA 200.7	0.125	08/22/09 9:20	08/25/09	GSR-CV
Barium	2.27 mg/L	EPA 200.7	0.025	08/22/09 9:20	08/25/09	GSR-CV
Beryllium	0.013 mg/L	EPA 200.7	0.005	08/22/09 9:20	08/25/09	GSR-CV
Boron	< 0.500 mg/L	EPA 200.7	0.500	08/22/09 9:20	08/25/09	GSR-CV
Cadmium	0.005 mg/L	EPA 200.7	0.005	08/22/09 9:20	08/25/09	GSR-CV
Calcium	95.7 mg/L	EPA 200.7	0.500	08/22/09 9:20	08/25/09	GSR-CV
Chromium	0.360 mg/L	EPA 200.7	0.050	08/22/09 9:20	08/25/09	GSR-CV
Cobalt	0.321 mg/L	EPA 200.7	0.050	08/22/09 9:20	08/25/09	GSR-CV
Copper	0.482 mg/L	EPA 200.7	0.050	08/22/09 9:20	08/25/09	GSR-CV
Iron	651 mg/L	EPA 200.7	0.100	08/22/09 9:20	08/25/09	GSR-CV
Lead	0.350 mg/L	EPA 200.7	0.050	08/22/09 9:20	08/25/09	GSR-CV
Magnesium	131 mg/L	EPA 200.7	0.150	08/22/09 9:20	08/25/09	GSR-CV
Manganese	24.8 mg/L	EPA 200.7	0.082	08/22/09 9:20	08/26/09	GSR-CV

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K Sample was received past holding time.

X Value exceeds Maximum Contaminant Level

MANAGER

DATE: 9/1/2009

LAB ID # 11216  
LAB ID # 11827

# Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave.  
Sayre, PA 18840

Phone: (570) 888-0169  
Fax: (570) 888-0717

Work Order: 09083012

SEND DATA TO:

NAME: Tom Delamarter  
COMPANY: Conklin, Town of  
ADDRESS: P.O. Box 182  
Conklin, NY 13748

WO#: 09083012

PAGE: 23 of 35

PO#:

PHONE: (607) 775-4584  
FAX: (607) 775-1434

## TEST REPORT

PWS ID# Broome Co. DOH

Landfill-Baseline

RECEIVED FOR LAB BY: DLM2

DATE: 08/19/2009 17:05

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Element	Concentration	Method	Result	Start	End	Analyst
Nickel	0.594 mg/L	EPA 200.7	0.050	08/22/09 9:20	08/26/09	GSR-CV
Potassium	14.7 mg/L	EPA 200.7	2.75	08/22/09 9:20	08/25/09	GSR-CV
Selenium	< 0.200 mg/L	EPA 200.7	0.200	08/22/09 9:20	08/25/09	GSR-CV
Silver	0.013 mg/L	EPA 200.7	0.010	08/22/09 9:20	08/25/09	GSR-CV
Sodium	27.5 mg/L	EPA 200.7	2.75	08/22/09 9:20	08/25/09	GSR-CV
Thallium	< 0.125 mg/L	EPA 200.7	0.125	08/22/09 9:20	08/25/09	GSR-CV
Vanadium	0.321 mg/L	EPA 200.7	0.050	08/22/09 9:20	08/25/09	GSR-CV
Zinc	1.67 mg/L	EPA 200.7	0.025	08/22/09 9:20	08/25/09	GSR-CV
Hardness, Calculation	778 mg/L	EPA 200.7	1.87	08/22/09 9:20	08/25/09	GSR-CV

SAMPLE: MW-38D Lab ID: 09083012-005C Grab  
SAMPLED BY: FC Sample Time: 08/19/2009 14:25

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Alkalinity as CaCO3	123 mg/L	SM2320B	2	08/20/09 13:00	08/20/09	KMF-SA

SAMPLE: MW-38D Lab ID: 09083012-005D Grab  
SAMPLED BY: FC Sample Time: 08/19/2009 14:25

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Ammonia as N	0.2 mg/L	Lachat	0.1	08/20/09 11:09	08/20/09	JP-SA
Chemical Oxygen Demand	171 mg/L	HACH 8000	10	08/25/09 10:30	08/25/09	CMD-SA

SAMPLE: MW-38D Lab ID: 09083012-005E Grab  
SAMPLED BY: FC Sample Time: 08/19/2009 14:25

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
BOD	< 6 mg/L	SM5210B	6	08/20/09 9:40	08/25/09	NFM-SA
pH	7.56 @ 22.5 °C	SM4500H+B		08/20/09 11:12	08/20/09	KMF-SA

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MANAGER

DATE: 9/1/2009

LAB ID # 11216  
LAB ID # 11827

# Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave.  
Sayre, PA 18840

Work Order: 09083012

Phone: (570) 888-0169

Fax: (570) 888-0717

SEND DATA TO:

NAME: Tom Delamarter  
COMPANY: Conklin, Town of  
ADDRESS: P.O. Box 182  
Conklin, NY 13748

WO#: 09083012

PAGE: 24 of 35

PO#:

PHONE: (607) 775-4584

FAX: (607) 775-1434

## TEST REPORT

PWS ID# Broome Co. DOH

Landfill-Baseline

RECEIVED FOR LAB BY: DLM2

DATE: 08/19/2009 17:05

Page 24 of 35

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
SAMPLE: MW-38D Lab ID: 09083012-005F Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 14:25						
Bromide	0.09 mg/L	EPA 300.0	0.05	08/27/09 16:20	08/27/09	LNP-CV
SAMPLE: MW-38D Lab ID: 09083012-005G Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 14:25						
Chloride	7.74 mg/L	EPA 300.0	0.25	08/26/09 14:36	08/27/09	LNP-CV
Sulfate	5.72 mg/L	EPA 300.0	0.25	08/26/09 14:36	08/27/09	LNP-CV
SAMPLE: MW-38D Lab ID: 09083012-005H Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 14:25						
Total Dissolved Solids	420 mg/L	SM2540C	10	08/24/09 8:00	08/25/09	NFM-SA
SAMPLE: MW-38D Lab ID: 09083012-005I Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 14:25						
Color	17 Pt Co	SM2120B	5	08/20/09 10:30	08/20/09	CMD-SA
Nitrate as N	< 0.05 mg/L	EPA 353.2	0.05	08/21/09 10:00	08/21/09	IC-SA
Sample Note: Color reported as true color.						
SAMPLE: MW-38D Lab ID: 09083012-005J Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 14:25						
Cyanide (total)	< 0.010 mg/L	EPA 335.4	0.010	08/21/09 11:05	08/24/09	CMD-SA

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PAGE: 25 of 35

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## TEST REPORT

Landfill-Baseline

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DATE: 08/19/2009 17:05

Page 25 of 35

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
SAMPLE: MW-38D Lab ID: 09083012-005K Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 14:25						
Hexavalent Chromium	< 0.01 mg/L	SM3500CrB	0.01	09/01/09 13:30	09/01/09	CMD-SA
SAMPLE: MW-38D Lab ID: 09083012-005L Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 14:25						
Phenol	0.070 mg/L	EPA 420.4	0.025	08/31/09 15:30	08/31/09	CMD-SA
SAMPLE: MW-38D Lab ID: 09083012-005M Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 14:25						
Total Kjeldahl Nitrogen	< 1.0 mg/L	Lachat	1.0	08/25/09 10:24	08/25/09	RHN-SA
SAMPLE: MW-38D Lab ID: 09083012-005N Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 14:25						
Total Organic Carbon	1.4 mg/L	SM5310C	0.5	08/25/09 11:00	08/25/09	CMD-SA
SAMPLE: MW-1 Upgradient Lab ID: 09083012-006A Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 10:40						
Dichlorodifluoromethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Chloromethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Vinyl chloride	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Bromomethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Chloroethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV

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MANAGER

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LAB ID # 11216  
LAB ID # 11827

# Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave.  
Sayre, PA 18840

Phone: (570) 888-0169  
Fax: (570) 888-0717

Work Order: 09083012

SEND DATA TO:

NAME: Tom Delamarter  
COMPANY: Conklin, Town of  
ADDRESS: P.O. Box 182  
Conklin, NY 13748

WO#: 09083012

PAGE: 26 of 35

PO#:

PHONE: (607) 775-4584  
FAX: (607) 775-1434

## TEST REPORT

PWS ID# Broome Co. DOH

Landfill-Baseline

RECEIVED FOR LAB BY: DLM2

DATE: 08/19/2009 17:05

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Trichlorofluoromethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,1-Dichloroethene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Methylene chloride	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
2-Butanone	< 0.005 mg/L	EPA 8260B	0.005	08/21/09 15:07	08/22/09	MTB-CV
trans-1,2-Dichloroethene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,1-Dichloroethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
cis-1,2-Dichloroethene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Chloroform	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,1,1-Trichloroethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Carbon tetrachloride	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Benzene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,2-Dichloroethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Trichloroethene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,2-Dichloropropane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Dibromomethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Bromodichloromethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
cis-1,3-Dichloropropene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Toluene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
4-Methyl-2-pentanone (MIBK)	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
trans-1,3-Dichloropropene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,1,2-Trichloroethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Tetrachloroethene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Dibromochloromethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,2-Dibromoethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Chlorobenzene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,1,1,2-Tetrachloroethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Ethylbenzene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
m,p-Xylene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV

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K Sample was received past holding time.

X Value exceeds Maximum Contaminant Level

MANAGER

DATE: 9/1/2009

LAB ID # 11216  
LAB ID # 11827

# Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave.  
Sayre, PA 18840

Phone: (570) 888-0169

Fax: (570) 888-0717

Work Order: 09083012

SEND DATA TO:

NAME: Tom Delamarter  
COMPANY: Conklin, Town of  
ADDRESS: P.O. Box 182  
Conklin, NY 13748

WO#: 09083012

PAGE: 27 of 35

PO#:

PHONE: (607) 775-4584  
FAX: (607) 775-1434

## TEST REPORT

PWS ID# Broome Co. DOH

Landfill-Baseline

RECEIVED FOR LAB BY: DLM2

DATE: 08/19/2009 17:05

Page 27 of 35

Component	Concentration	Method	Result	Date/Time	Date/Time	Analyst
o-Xylene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Xylenes, Total	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Bromoform	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,1,2,2-Tetrachloroethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,2,3-Trichloropropane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,3-Dichlorobenzene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,4-Dichlorobenzene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,2-Dichlorobenzene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV

SAMPLE: MW-1 Upgradient  
SAMPLED BY: FC

Lab ID: 09083012-006B

Grab

Sample Time: 08/19/2009 10:40

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst
Mercury	< 0.0002 mg/L	EPA 245.1	0.0002	08/24/09 10:55	08/24/09	KLB-CV
Aluminum	0.567 mg/L	EPA 200.7	0.050	08/22/09 9:20	08/24/09	RMD-CV
Antimony	< 0.020 mg/L	EPA 200.7	0.020	08/22/09 9:20	08/24/09	RMD-CV
Arsenic	< 0.025 mg/L	EPA 200.7	0.025	08/22/09 9:20	08/24/09	RMD-CV
Barium	0.026 mg/L	EPA 200.7	0.005	08/22/09 9:20	08/24/09	RMD-CV
Beryllium	< 0.001 mg/L	EPA 200.7	0.001	08/22/09 9:20	08/24/09	RMD-CV
Boron	< 0.100 mg/L	EPA 200.7	0.100	08/22/09 9:20	08/24/09	RMD-CV
Cadmium	< 0.001 mg/L	EPA 200.7	0.001	08/22/09 9:20	08/24/09	RMD-CV
Calcium	53.4 mg/L	EPA 200.7	0.100	08/22/09 9:20	08/24/09	RMD-CV
Chromium	< 0.010 mg/L	EPA 200.7	0.010	08/22/09 9:20	08/24/09	RMD-CV
Cobalt	< 0.010 mg/L	EPA 200.7	0.010	08/22/09 9:20	08/24/09	RMD-CV
Copper	< 0.010 mg/L	EPA 200.7	0.010	08/22/09 9:20	08/24/09	RMD-CV
Iron	0.865 mg/L	EPA 200.7	0.020	08/22/09 9:20	08/24/09	RMD-CV
Lead	< 0.010 mg/L	EPA 200.7	0.010	08/22/09 9:20	08/24/09	RMD-CV
Magnesium	17.4 mg/L	EPA 200.7	0.030	08/22/09 9:20	08/24/09	RMD-CV
Manganese	0.067 mg/L	EPA 200.7	0.002	08/22/09 9:20	08/24/09	RMD-CV

REMARKS:

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MANAGER

DATE: 9/1/2009

LAB ID # 11216  
LAB ID # 11827

# Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave.  
Sayre, PA 18840

Phone: (570) 888-0169  
Fax: (570) 888-0717

Work Order: 09083012

SEND DATA TO:

NAME: Tom Delamarter  
COMPANY: Conklin, Town of  
ADDRESS: P.O. Box 182  
Conklin, NY 13748

WO#: 09083012

PAGE: 28 of 35

PO#:

PHONE: (607) 775-4584  
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## TEST REPORT

PWS ID# Broome Co. DOH

Landfill-Baseline

RECEIVED FOR LAB BY: DLM2

DATE: 08/19/2009 17:05

Page 28 of 35

Parameter	Result	Method	Concentration	Analysis Start	Analysis End	Analyst
Nickel	< 0.010 mg/L	EPA 200.7	0.010	08/22/09 9:20	08/24/09	RMD-CV
Potassium	1.60 mg/L	EPA 200.7	0.550	08/22/09 9:20	08/24/09	RMD-CV
Selenium	< 0.040 mg/L	EPA 200.7	0.040	08/22/09 9:20	08/24/09	RMD-CV
Silver	< 0.002 mg/L	EPA 200.7	0.002	08/22/09 9:20	08/25/09	GSR-CV
Sodium	20.9 mg/L	EPA 200.7	2.75	08/22/09 9:20	08/25/09	GSR-CV
Thallium	< 0.025 mg/L	EPA 200.7	0.025	08/22/09 9:20	08/25/09	GSR-CV
Vanadium	< 0.010 mg/L	EPA 200.7	0.010	08/22/09 9:20	08/24/09	RMD-CV
Zinc	0.008 mg/L	EPA 200.7	0.005	08/22/09 9:20	08/24/09	RMD-CV
Hardness, Calculation	205 mg/L	EPA 200.7	0.373	08/22/09 9:20	08/24/09	RMD-CV

SAMPLE: MW-1 Upgradient

Lab ID: 09083012-006C

Grab

SAMPLED BY: FC

Sample Time: 08/19/2009 10:40

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst
Alkalinity as CaCO3	253 mg/L	SM2320B	2	08/20/09 13:00	08/20/09	KMF-SA

SAMPLE: MW-1 Upgradient

Lab ID: 09083012-006D

Grab

SAMPLED BY: FC

Sample Time: 08/19/2009 10:40

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst
Ammonia as N	< 0.1 mg/L	Lachat	0.1	08/20/09 11:09	08/20/09	JP-SA
Chemical Oxygen Demand	< 10 mg/L	HACH 8000	10	08/25/09 10:30	08/25/09	CMD-SA

SAMPLE: MW-1 Upgradient

Lab ID: 09083012-006E

Grab

SAMPLED BY: FC

Sample Time: 08/19/2009 10:40

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst
BOD	< 6 mg/L	SM5210B	6	08/20/09 9:40	08/25/09	NFM-SA
pH	7.54 @ 22.8 °C	SM4500H+B	X	08/20/09 11:12	08/20/09	KMF-SA

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K Sample was received past holding time.

X Value exceeds Maximum Contaminant Level

MANAGER

DATE: 9/1/2009



LAB ID # 11216  
LAB ID # 11827

### Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave.  
Sayre, PA 18840

Phone: (570) 888-0169  
Fax: (570) 888-0717

Work Order: 09083012

SEND DATA TO:

NAME: Tom Delamarter  
COMPANY: Conklin, Town of  
ADDRESS: P.O. Box 182  
Conklin, NY 13748

WO#: 09083012

PAGE: 29 of 35

PO#:

PWS ID# Broome Co. DOH

PHONE: (607) 775-4584  
FAX: (607) 775-1434

### TEST REPORT

Landfill-Baseline

RECEIVED FOR LAB BY: DLM2

DATE: 08/19/2009 17:05

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SAMPLE: **MW-1 Upgradient**

Lab ID: 09083012-006F Grab

SAMPLED BY: FC

Sample Time: 08/19/2009 10:40

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Bromide	< 0.05 mg/L	EPA 300.0	0.05	08/27/09 16:20	08/27/09	LNP-CV

SAMPLE: **MW-1 Upgradient**

Lab ID: 09083012-006G Grab

SAMPLED BY: FC

Sample Time: 08/19/2009 10:40

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Chloride	2.97 mg/L	EPA 300.0	0.25	08/26/09 14:36	08/27/09	LNP-CV
Sulfate	6.15 mg/L	EPA 300.0	0.25	08/26/09 14:36	08/27/09	LNP-CV

SAMPLE: **MW-1 Upgradient**

Lab ID: 09083012-006H Grab

SAMPLED BY: FC

Sample Time: 08/19/2009 10:40

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Total Dissolved Solids	443 mg/L	SM2540C	10	08/24/09 8:00	08/25/09	NFM-SA

SAMPLE: **MW-1 Upgradient**

Lab ID: 09083012-006I Grab

SAMPLED BY: FC

Sample Time: 08/19/2009 10:40

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Color	< 5 Pt Co	SM2120B	5	08/20/09 10:30	08/20/09	CMD-SA
Nitrate as N	0.18 mg/L	EPA 353.2	0.05	08/21/09 10:00	08/21/09	IC-SA

Sample Note Color reported as true color.

SAMPLE: **MW-1 Upgradient**

Lab ID: 09083012-006J Grab

SAMPLED BY: FC

Sample Time: 08/19/2009 10:40

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Cyanide (total)	< 0.010 mg/L	EPA 335.4	0.010	08/21/09 11:05	08/24/09	CMD-SA

REMARKS:

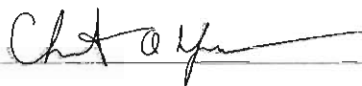
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PAGE: 30 of 35

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PWS ID# Broome Co. DOH

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## TEST REPORT

Landfill-Baseline

RECEIVED FOR LAB BY: DLM2

DATE: 08/19/2009 17:05

Page 30 of 35

SAMPLE: **MW-1 Upgradient**  
SAMPLED BY: FC

Lab ID: 09083012-006K Grab

Sample Time: 08/19/2009 10:40

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Hexavalent Chromium	< 0.01 mg/L	SM3500CrB	0.01	09/01/09 13:30	09/01/09	CMD-SA

SAMPLE: **MW-1 Upgradient**  
SAMPLED BY: FC

Lab ID: 09083012-006L Grab

Sample Time: 08/19/2009 10:40

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Phenol	0.039 mg/L	EPA 420.4	0.025	08/31/09 15:30	08/31/09	CMD-SA

SAMPLE: **MW-1 Upgradient**  
SAMPLED BY: FC

Lab ID: 09083012-006M Grab

Sample Time: 08/19/2009 10:40

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Total Kjeldahl Nitrogen	< 1.0 mg/L	Lachat	1.0	08/25/09 10:24	08/25/09	RHN-SA

SAMPLE: **MW-1 Upgradient**  
SAMPLED BY: FC

Lab ID: 09083012-006N Grab

Sample Time: 08/19/2009 10:40

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Total Organic Carbon	0.7 mg/L	SM5310C	0.5	08/25/09 11:00	08/25/09	CMD-SA

SAMPLE: **SW-Carlin**  
SAMPLED BY: FC

Lab ID: 09083012-007A Grab

Sample Time: 08/19/2009 14:45

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Dichlorodifluoromethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Chloromethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Vinyl chloride	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Bromomethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Chloroethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV

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Conklin, NY 13748

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PAGE: 31 of 35

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## TEST REPORT

Landfill-Baseline

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Page 31 of 35

Trichlorofluoromethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,1-Dichloroethene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Methylene chloride	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
2-Butanone	< 0.005 mg/L	EPA 8260B	0.005	08/21/09 15:07	08/22/09	MTB-CV
trans-1,2-Dichloroethene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,1-Dichloroethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
cis-1,2-Dichloroethene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Chloroform	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,1,1-Trichloroethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Carbon tetrachloride	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Benzene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,2-Dichloroethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Trichloroethene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,2-Dichloropropane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Dibromomethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Bromodichloromethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
cis-1,3-Dichloropropene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Toluene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
4-Methyl-2-pentanone (MIBK)	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
trans-1,3-Dichloropropene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,1,2-Trichloroethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Tetrachloroethene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Dibromochloromethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,2-Dibromoethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Chlorobenzene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,1,1,2-Tetrachloroethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Ethylbenzene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
m,p-Xylene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV

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LAB ID # 11827

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Work Order: 09083012

SEND DATA TO:

NAME: Tom Delamarter  
COMPANY: Conklin, Town of  
ADDRESS: P.O. Box 182  
Conklin, NY 13748

WO#: 09083012

PAGE: 32 of 35

PO#:

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## TEST REPORT

PWS ID# Broome Co. DOH

Landfill-Baseline

RECEIVED FOR LAB BY: DLM2

DATE: 08/19/2009 17:05

Page 32 of 35

Component	Concentration	Method	Result	Start	End	Analyst
o-Xylene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Xylenes, Total	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
Bromofom	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,1,2,2-Tetrachloroethane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,2,3-Trichloropropane	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,3-Dichlorobenzene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,4-Dichlorobenzene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV
1,2-Dichlorobenzene	< 0.001 mg/L	EPA 8260B	0.001	08/21/09 15:07	08/22/09	MTB-CV

SAMPLE: SW-Carlin  
SAMPLED BY: FC

Lab ID: 09083012-007B  
Sample Time: 08/19/2009 14:45

Grab

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst
Mercury	< 0.0002 mg/L	EPA 245.1	0.0002	08/24/09 10:55	08/24/09	KLB-CV
Aluminum	0.625 mg/L	EPA 200.7	0.050	08/22/09 9:20	08/24/09	RMD-CV
Antimony	< 0.020 mg/L	EPA 200.7	0.020	08/22/09 9:20	08/24/09	RMD-CV
Arsenic	< 0.025 mg/L	EPA 200.7	0.025	08/22/09 9:20	08/24/09	RMD-CV
Barium	0.050 mg/L	EPA 200.7	0.005	08/22/09 9:20	08/24/09	RMD-CV
Beryllium	< 0.001 mg/L	EPA 200.7	0.001	08/22/09 9:20	08/24/09	RMD-CV
Boron	< 0.100 mg/L	EPA 200.7	0.100	08/22/09 9:20	08/24/09	RMD-CV
Cadmium	< 0.001 mg/L	EPA 200.7	0.001	08/22/09 9:20	08/24/09	RMD-CV
Calcium	21.5 mg/L	EPA 200.7	0.100	08/22/09 9:20	08/24/09	RMD-CV
Chromium	< 0.010 mg/L	EPA 200.7	0.010	08/22/09 9:20	08/24/09	RMD-CV
Cobalt	< 0.010 mg/L	EPA 200.7	0.010	08/22/09 9:20	08/24/09	RMD-CV
Copper	< 0.010 mg/L	EPA 200.7	0.010	08/22/09 9:20	08/24/09	RMD-CV
Iron	3.19 mg/L	EPA 200.7	0.020	08/22/09 9:20	08/24/09	RMD-CV
Lead	< 0.010 mg/L	EPA 200.7	0.010	08/22/09 9:20	08/24/09	RMD-CV
Magnesium	5.01 mg/L	EPA 200.7	0.030	08/22/09 9:20	08/24/09	RMD-CV
Manganese	0.654 mg/L	EPA 200.7	0.002	08/22/09 9:20	08/24/09	RMD-CV

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LAB ID # 11827

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WO#: 09083012

PAGE: 33 of 35

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## TEST REPORT

Landfill-Baseline

RECEIVED FOR LAB BY: DLM2

DATE: 08/19/2009 17:05

Page 33 of 35

Test	Result	Method	Concentration	Analysis Date	Analysis Time	Analyst
Nickel	< 0.010 mg/L	EPA 200.7	0.010	08/22/09 9:20	08/24/09	RMD-CV
Potassium	3.99 mg/L	EPA 200.7	0.550	08/22/09 9:20	08/24/09	RMD-CV
Selenium	< 0.040 mg/L	EPA 200.7	0.040	08/22/09 9:20	08/24/09	RMD-CV
Silver	< 0.002 mg/L	EPA 200.7	0.002	08/22/09 9:20	08/25/09	GSR-CV
Sodium	26.6 mg/L	EPA 200.7	2.75	08/22/09 9:20	08/25/09	GSR-CV
Thallium	< 0.025 mg/L	EPA 200.7	0.025	08/22/09 9:20	08/25/09	GSR-CV
Vanadium	< 0.010 mg/L	EPA 200.7	0.010	08/22/09 9:20	08/24/09	RMD-CV
Zinc	0.012 mg/L	EPA 200.7	0.005	08/22/09 9:20	08/24/09	RMD-CV
Hardness, Calculation	74.3 mg/L	EPA 200.7	0.373	08/22/09 9:20	08/24/09	RMD-CV

SAMPLE: SW-Carlin  
SAMPLED BY: FC

Lab ID: 09083012-007C Grab

Sample Time: 08/19/2009 14:45

SLOQ

Test	Result	Method	Concentration	Analysis Start	Analysis End	Analyst
Alkalinity as CaCO <sub>3</sub>	57 mg/L	SM2320B	2	08/20/09 13:00	08/20/09	KMF-SA

SAMPLE: SW-Carlin  
SAMPLED BY: FC

Lab ID: 09083012-007D Grab

Sample Time: 08/19/2009 14:45

SLOQ

Test	Result	Method	Concentration	Analysis Start	Analysis End	Analyst
Ammonia as N	< 0.1 mg/L	Lachat	0.1	08/20/09 11:09	08/20/09	JP-SA
Chemical Oxygen Demand	108 mg/L	HACH 8000	10	08/25/09 10:30	08/25/09	CMD-SA

SAMPLE: SW-Carlin  
SAMPLED BY: FC

Lab ID: 09083012-007E Grab

Sample Time: 08/19/2009 14:45

SLOQ

Test	Result	Method	Concentration	Analysis Start	Analysis End	Analyst
BOD	< 6 mg/L	SM5210B	6	08/20/09 9:40	08/25/09	NFM-SA
pH	6.88 @ 23.3 °C	SM4500H+B	X	08/20/09 11:12	08/20/09	KMF-SA

REMARKS:

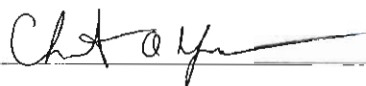
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Landfill-Baseline

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Page 34 of 35

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
SAMPLE: SW-Carlin Lab ID: 09083012-007F Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 14:45						
Bromide	0.05 mg/L	EPA 300.0	0.05	08/27/09 16:20	08/27/09	LNP-CV
SAMPLE: SW-Carlin Lab ID: 09083012-007G Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 14:45						
Chloride	48.0 mg/L	EPA 300.0	0.25	08/26/09 14:36	08/27/09	LNP-CV
Sulfate	10.4 mg/L	EPA 300.0	0.25	08/26/09 14:36	08/27/09	LNP-CV
SAMPLE: SW-Carlin Lab ID: 09083012-007H Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 14:45						
Total Dissolved Solids	240 mg/L	SM2540C	10	08/24/09 8:00	08/25/09	NFM-SA
SAMPLE: SW-Carlin Lab ID: 09083012-007I Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 14:45						
Color	< 5 Pt Co	SM2120B	5	08/20/09 10:30	08/20/09	CMD-SA
Nitrate as N	< 0.05 mg/L	EPA 353.2	0.05	08/21/09 10:00	08/21/09	IC-SA
Sample Note: Color reported as true color.						
SAMPLE: SW-Carlin Lab ID: 09083012-007J Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 14:45						
Cyanide (total)	< 0.010 mg/L	EPA 335.4	0.010	08/31/09 11:20	09/01/09	CMD-SA

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**TEST REPORT**

Landfill-Baseline

RECEIVED FOR LAB BY: DLM2

DATE: 08/19/2009 17:05

Page 35 of 35

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
SAMPLE: <b>SW-Carlin</b> Lab ID: 09083012-007K Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 14:45						
Hexavalent Chromium	< 0.01 mg/L	SM3500CrB	0.01	09/01/09 13:30	09/01/09	CMD-SA
SAMPLE: <b>SW-Carlin</b> Lab ID: 09083012-007L Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 14:45						
Phenol	< 0.025 mg/L	EPA 420.4	0.025	08/31/09 15:30	08/31/09	CMD-SA
SAMPLE: <b>SW-Carlin</b> Lab ID: 09083012-007M Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 14:45						
Total Kjeldahl Nitrogen	< 1.0 mg/L	Lachat	1.0	08/25/09 10:24	08/25/09	RHN-SA
SAMPLE: <b>SW-Carlin</b> Lab ID: 09083012-007N Grab						
SAMPLED BY: FC Sample Time: 08/19/2009 14:45						
Total Organic Carbon	1.6 mg/L	SM5310C	0.5	08/25/09 11:00	08/25/09	CMD-SA

REMARKS:

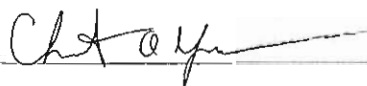
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\* CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

K Sample was received past holding time.

X Value exceeds Maximum Contaminant Level

MANAGER



DATE: 9/1/2009

LAB ID # 11216  
LAB ID # 11827

# Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave.  
Sayre, PA 18840

Phone: (570) 888-0169  
Fax: (570) 888-0717

Work Order: 09102974

SEND DATA TO:

NAME: Tom Delamarter  
COMPANY: Conklin, Town of  
ADDRESS: P.O. Box 182  
Conklin, NY 13748

WO#: 09102974

PAGE: 1 of 19

PO#:

PWS ID# Broome Co. DOH

PHONE: (607) 775-4584  
FAX: (607) 775-1434

## TEST REPORT

Landfill-Routine

RECEIVED FOR LAB BY: DLM2

DATE: 10/21/2009 17:05

Page 1 of 19

SAMPLE: **MW-1 Upgradient**  
SAMPLED BY: FC

Lab ID: 09102974-001

Sample Time: 10/21/2009 11:45

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
pH	7.77	Field Parameters		10/21/09 11:45		
Temperature, sampled	15.7 deg C	Field Parameters		10/21/09 11:45		

SAMPLE: **MW-1 Upgradient**  
SAMPLED BY: FC

Lab ID: 09102974-001A

Sample Time: 10/21/2009 11:45

Grab

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Alkalinity as CaCO <sub>3</sub>	246 mg/L	SM2320B	2	10/28/09 11:00	10/28/09	RHN-SA

SAMPLE: **MW-1 Upgradient**  
SAMPLED BY: FC

Lab ID: 09102974-001B

Sample Time: 10/21/2009 11:45

Grab

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Ammonia as N	< 0.1 mg/L	Lachat	0.1	10/22/09 14:11	10/22/09	NFM-SA
Chemical Oxygen Demand	< 10 mg/L	HACH 8000	10	11/02/09 11:15	11/03/09	KAL-SA

SAMPLE: **MW-1 Upgradient**  
SAMPLED BY: FC

Lab ID: 09102974-001C

Sample Time: 10/21/2009 11:45

Grab

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
BOD	< 6 mg/L	SM5210B	6	10/22/09 8:00	10/27/09	RHN-SA
pH	7.69@22.4°C	K SM4500H+B		10/23/09 11:10	10/23/09	NFM-SA

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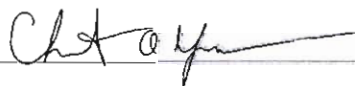
K Sample was received past holding time.

L Value above calibration range but within annually verified linear range

MS Limit of detection increased due to matrix interference and spike recovery data

Q Due to matrix effects, not all quality control parameters met acceptance criteria

MANAGER



DATE: 11/10/2009



LAB ID # 11216  
LAB ID # 11827

# Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave.  
Sayre, PA 18840

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Work Order: 09102974

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NAME: Tom Delamarter  
COMPANY: Conklin, Town of  
ADDRESS: P.O. Box 182  
Conklin, NY 13748

WO#: 09102974

PAGE: 2 of 19

PO#:

PWS ID# Broome Co. DOH

PHONE: (607) 775-4584  
FAX: (607) 775-1434

## TEST REPORT

Landfill-Routine

RECEIVED FOR LAB BY: DLM2

DATE: 10/21/2009 17:05

Page 2 of 19

SAMPLE: **MW-1 Upgradient**  
SAMPLED BY: FC

Lab ID: 09102974-001D Grab

Sample Time: 10/21/2009 11:45

SLOQ

Test	Result	Method		Analysis Start	Analysis End	Analyst
Chloride	2.49 mg/L	EPA 300.0	0.25	11/01/09 12:04	11/02/09	JRA-CV
Sulfate	6.10 mg/L	EPA 300.0	0.25	11/01/09 12:04	11/02/09	JRA-CV
Bromide	< 0.05 mg/L	EPA 300.0	0.05	11/09/09 11:31	11/09/09	JRA-CV

SAMPLE: **MW-1 Upgradient**  
SAMPLED BY: FC

Lab ID: 09102974-001E Grab

Sample Time: 10/21/2009 11:45

SLOQ

Test	Result	Method		Analysis Start	Analysis End	Analyst
Nitrate as N	0.07 mg/L	EPA 353.2	0.05	10/23/09 10:36	10/23/09	IC-SA
Total Dissolved Solids	372 mg/L	SM2540C	10	10/26/09 11:00	10/27/09	NFM-SA

SAMPLE: **MW-1 Upgradient**  
SAMPLED BY: FC

Lab ID: 09102974-001F Grab

Sample Time: 10/21/2009 11:45

SLOQ

Test	Result	Method		Analysis Start	Analysis End	Analyst
Cadmium	< 0.001 mg/L	EPA 200.7	0.001	10/23/09 13:10	10/28/09	RMD-CV
Calcium	52.1 mg/L	EPA 200.7	0.100	10/23/09 13:10	10/28/09	RMD-CV
Iron	< 0.020 mg/L	EPA 200.7	0.020	10/23/09 13:10	10/28/09	RMD-CV
Lead	< 0.010 mg/L	EPA 200.7	0.010	10/23/09 13:10	10/28/09	RMD-CV
Magnesium	19.6 mg/L	EPA 200.7	0.030	10/23/09 13:10	10/28/09	RMD-CV
Manganese	0.017 mg/L	EPA 200.7	0.002	10/23/09 13:10	10/28/09	RMD-CV
Potassium	1.84 mg/L	EPA 200.7	0.550	10/23/09 13:10	10/28/09	RMD-CV
Sodium	19.3 mg/L	EPA 200.7	0.550	10/23/09 13:10	10/28/09	RMD-CV
Thallium	< 0.025 mg/L	EPA 200.7	0.025	10/23/09 13:10	10/28/09	RMD-CV
Vanadium	< 0.010 mg/L	EPA 200.7	0.010	10/23/09 13:10	10/28/09	RMD-CV

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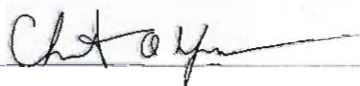
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MANAGER



DATE: 11/10/2009

LAB ID # 11216  
LAB ID # 11827

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Landfill-Routine

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Zinc	< 0.005 mg/L	EPA 200.7	0.005	10/23/09 13:10	10/28/09	RMD-CV
Hardness, Calculation	211 mg/L	EPA 200.7	0.373	10/23/09 13:10	10/28/09	RMD-CV

SAMPLE: **MW-1 Upgradient**  
SAMPLED BY: FC

Lab ID: 09102974-001G

Grab

Sample Time: 10/21/2009 11:45

SLOQ

<u>Test</u>	<u>Result</u>	<u>Method</u>		<u>Analysis Start</u>	<u>Analysis End</u>	<u>Analyst *</u>
Total Kjeldahl Nitrogen	< 1.0 mg/L	Lachat	1.0	10/27/09 10:28	10/27/09	RHN-SA

SAMPLE: **MW-1 Upgradient**  
SAMPLED BY: FC

Lab ID: 09102974-001H

Grab

Sample Time: 10/21/2009 11:45

SLOQ

<u>Test</u>	<u>Result</u>	<u>Method</u>		<u>Analysis Start</u>	<u>Analysis End</u>	<u>Analyst *</u>
Phenol	< 0.025 mg/L	EPA 420.4	0.025	10/28/09 11:13	10/28/09	KAL-SA

SAMPLE: **MW-1 Upgradient**  
SAMPLED BY: FC

Lab ID: 09102974-001I

Grab

Sample Time: 10/21/2009 11:45

SLOQ

<u>Test</u>	<u>Result</u>	<u>Method</u>		<u>Analysis Start</u>	<u>Analysis End</u>	<u>Analyst *</u>
Total Organic Carbon	< 0.5 mg/L	SM5310C	0.5	10/27/09 13:12	10/27/09	KAL-SA

SAMPLE: **MW-3**  
SAMPLED BY: FC

Lab ID: 09102974-002

Grab

Sample Time: 10/21/2009 12:50

SLOQ

<u>Test</u>	<u>Result</u>	<u>Method</u>		<u>Analysis Start</u>	<u>Analysis End</u>	<u>Analyst *</u>
pH	6.25	Field Parameters		10/21/09 12:50		
Temperature, sampled	16.8 deg C	Field Parameters		10/21/09 12:50		

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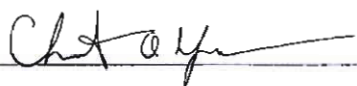
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MANAGER



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LAB ID # 11216  
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Conklin, NY 13748

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PAGE: 4 of 19

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## TEST REPORT

Landfill-Routine

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DATE: 10/21/2009 17:05

Page 4 of 19

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
SAMPLE: MW-3 Lab ID: 09102974-002A Grab						
SAMPLED BY: FC Sample Time: 10/21/2009 12:50						
Alkalinity as CaCO3	144 mg/L	SM2320B	2	10/28/09 11:00	10/28/09	RHN-SA
SAMPLE: MW-3 Lab ID: 09102974-002B Grab						
SAMPLED BY: FC Sample Time: 10/21/2009 12:50						
Ammonia as N	< 0.1 mg/L	Lachat	0.1	10/22/09 14:11	10/22/09	NFM-SA
Chemical Oxygen Demand	< 10 mg/L	HACH 8000	10	11/02/09 11:15	11/03/09	KAL-SA
SAMPLE: MW-3 Lab ID: 09102974-002C Grab						
SAMPLED BY: FC Sample Time: 10/21/2009 12:50						
BOD	< 6 mg/L	SM5210B	6	10/22/09 8:00	10/27/09	RHN-SA
pH	6.71@22.4°C	K SM4500H+B		10/23/09 11:10	10/23/09	NFM-SA
SAMPLE: MW-3 Lab ID: 09102974-002D Grab						
SAMPLED BY: FC Sample Time: 10/21/2009 12:50						
Chloride	15.3 mg/L	EPA 300.0	0.25	11/01/09 12:04	11/02/09	JRA-CV
Sulfate	14.2 mg/L	EPA 300.0	0.25	11/01/09 12:04	11/02/09	JRA-CV
Bromide	0.12 mg/L	Q EPA 300.0	0.05	11/09/09 11:31	11/09/09	JRA-CV

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MANAGER

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LAB ID # 11827

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NAME: Tom Delamarter  
COMPANY: Conklin, Town of  
ADDRESS: P.O. Box 182  
Conklin, NY 13748

WO#: 09102974

PAGE: 5 of 19

PO#:

PWS ID# Broome Co. DOH

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## TEST REPORT

Landfill-Routine

RECEIVED FOR LAB BY: DLM2

DATE: 10/21/2009 17:05

Page 5 of 19

SAMPLE: **MW-3**

Lab ID: 09102974-002E Grab

SAMPLED BY: FC

Sample Time: 10/21/2009 12:50

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Nitrate as N	< 0.05 mg/L	EPA 353.2	0.05	10/23/09 10:36	10/23/09	IC-SA
Total Dissolved Solids	370 mg/L	SM2540C	10	10/26/09 11:00	10/27/09	NFM-SA

SAMPLE: **MW-3**

Lab ID: 09102974-002F Grab

SAMPLED BY: FC

Sample Time: 10/21/2009 12:50

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Cadmium	< 0.005 mg/L	MS EPA 200.7	0.005	10/23/09 13:10	10/29/09	RMD-CV
Calcium	51.9 mg/L	EPA 200.7	0.500	10/23/09 13:10	10/29/09	RMD-CV
Iron	302 mg/L	EPA 200.7	0.100	10/23/09 13:10	10/29/09	RMD-CV
Lead	0.121 mg/L	EPA 200.7	0.010	10/23/09 13:10	10/28/09	RMD-CV
Magnesium	54.7 mg/L	EPA 200.7	0.150	10/23/09 13:10	10/29/09	RMD-CV
Manganese	3.49 mg/L	EPA 200.7	0.010	10/23/09 13:10	10/29/09	RMD-CV
Potassium	6.32 mg/L	EPA 200.7	2.75	10/23/09 13:10	10/29/09	RMD-CV
Sodium	12.8 mg/L	EPA 200.7	2.75	10/23/09 13:10	10/29/09	RMD-CV
Thallium	< 0.125 mg/L	MS EPA 200.7	0.125	10/23/09 13:10	10/29/09	RMD-CV
Vanadium	0.157 mg/L	EPA 200.7	0.050	10/23/09 13:10	10/29/09	RMD-CV
Zinc	0.733 mg/L	EPA 200.7	0.025	10/23/09 13:10	10/29/09	RMD-CV
Hardness, Calculation	354 mg/L	EPA 200.7	1.87	10/23/09 13:10	10/29/09	RMD-CV

SAMPLE: **MW-3**

Lab ID: 09102974-002G Grab

SAMPLED BY: FC

Sample Time: 10/21/2009 12:50

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Total Kjeldahl Nitrogen	< 1.0 mg/L	Lachat	1.0	10/27/09 10:28	10/27/09	RHN-SA

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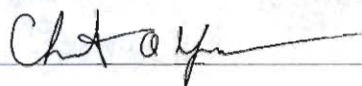
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MANAGER



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WO#: 09102974

PAGE: 6 of 19

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### TEST REPORT

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Page 6 of 19

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
SAMPLE: MW-3 Lab ID: 09102974-002H Grab						
SAMPLED BY: FC Sample Time: 10/21/2009 12:50						
Phenol	0.074 mg/L	EPA 420.4	0.025	10/28/09 11:13	10/28/09	KAL-SA
SAMPLE: MW-3 Lab ID: 09102974-002I Grab						
SAMPLED BY: FC Sample Time: 10/21/2009 12:50						
Total Organic Carbon	2.0 mg/L	SM5310C	0.5	10/27/09 13:12	10/27/09	KAL-SA
SAMPLE: MW-4 Lab ID: 09102974-003						
SAMPLED BY: FC Sample Time: 10/21/2009 13:40						
pH	6.58	Field Parameters		10/21/09 13:40		
Temperature, sampled	16.2 deg C	Field Parameters		10/21/09 13:40		
SAMPLE: MW-4 Lab ID: 09102974-003A Grab						
SAMPLED BY: FC Sample Time: 10/21/2009 13:40						
Alkalinity as CaCO3	94 mg/L	SM2320B	2	10/28/09 11:00	10/28/09	RHN-SA
SAMPLE: MW-4 Lab ID: 09102974-003B Grab						
SAMPLED BY: FC Sample Time: 10/21/2009 13:40						
Ammonia as N	< 0.1 mg/L	Lachat	0.1	10/22/09 14:11	10/22/09	NFM-SA
Chemical Oxygen Demand	< 10 mg/L	HACH 8000	10	11/02/09 11:15	11/03/09	KAL-SA

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## TEST REPORT

PWS ID# Broome Co. DOH

Landfill-Routine

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DATE: 10/21/2009 17:05

Page 7 of 19

SAMPLE: **MW-4** Lab ID: 09102974-003C Grab  
SAMPLED BY: FC Sample Time: 10/21/2009 13:40

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
BOD	< 6 mg/L	SM5210B	6	10/22/09 8:00	10/27/09	RHN-SA
pH	6.69@22.4°C	K SM4500H+B		10/23/09 11:10	10/23/09	NFM-SA

SAMPLE: **MW-4** Lab ID: 09102974-003D Grab  
SAMPLED BY: FC Sample Time: 10/21/2009 13:40

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Chloride	18.9 mg/L	EPA 300.0	0.25	11/01/09 12:04	11/02/09	JRA-CV
Sulfate	9.58 mg/L	EPA 300.0	0.25	11/01/09 12:04	11/02/09	JRA-CV
Bromide	0.07 mg/L	O EPA 300.0	0.05	11/09/09 11:31	11/09/09	JRA-CV

SAMPLE: **MW-4** Lab ID: 09102974-003E Grab  
SAMPLED BY: FC Sample Time: 10/21/2009 13:40

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Nitrate as N	0.22 mg/L	EPA 353.2	0.05	10/23/09 10:36	10/23/09	IC-SA
Total Dissolved Solids	289 mg/L	SM2540C	10	10/26/09 11:00	10/27/09	NFM-SA

SAMPLE: **MW-4** Lab ID: 09102974-003F Grab  
SAMPLED BY: FC Sample Time: 10/21/2009 13:40

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Cadmium	< 0.001 mg/L	EPA 200.7	0.001	10/23/09 13:10	10/28/09	RMD-CV
Calcium	33.3 mg/L	EPA 200.7	0.100	10/23/09 13:10	10/28/09	RMD-CV
Iron	37.8 mg/L	EPA 200.7	0.020	10/23/09 13:10	10/28/09	RMD-CV
Lead	0.048 mg/L	EPA 200.7	0.010	10/23/09 13:10	10/28/09	RMD-CV

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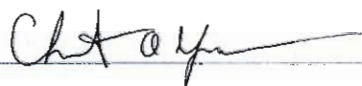
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## TEST REPORT

Landfill-Routine

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Page 8 of 19

Test	Result	Method	Concentration	Analysis Start	Analysis End	Analyst
Magnesium	13.0 mg/L	EPA 200.7	0.030	10/23/09 13:10	10/28/09	RMD-CV
Manganese	3.00 mg/L	EPA 200.7	0.018	10/23/09 13:10	10/28/09	RMD-CV
Potassium	2.87 mg/L	EPA 200.7	0.550	10/23/09 13:10	10/28/09	RMD-CV
Sodium	6.68 mg/L	EPA 200.7	0.550	10/23/09 13:10	10/28/09	RMD-CV
Thallium	0.047 mg/L	EPA 200.7	0.025	10/23/09 13:10	10/28/09	RMD-CV
Vanadium	0.023 mg/L	EPA 200.7	0.010	10/23/09 13:10	10/28/09	RMD-CV
Zinc	0.085 mg/L	EPA 200.7	0.005	10/23/09 13:10	10/28/09	RMD-CV
Hardness, Calculation	137 mg/L	EPA 200.7	0.373	10/23/09 13:10	10/28/09	RMD-CV

SAMPLE: **MW-4** Lab ID: 09102974-003G Grab  
SAMPLED BY: FC Sample Time: 10/21/2009 13:40

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst
Total Kjeldahl Nitrogen	< 1.0 mg/L	Lachat	1.0	10/27/09 10:28	10/27/09	RHN-SA

SAMPLE: **MW-4** Lab ID: 09102974-003H Grab  
SAMPLED BY: FC Sample Time: 10/21/2009 13:40

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst
Phenol	0.051 mg/L	EPA 420.4	0.025	10/28/09 11:13	10/28/09	KAL-SA

SAMPLE: **MW-4** Lab ID: 09102974-003I Grab  
SAMPLED BY: FC Sample Time: 10/21/2009 13:40

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst
Total Organic Carbon	< 0.5 mg/L	SM5310C	0.5	10/27/09 13:12	10/27/09	KAL-SA

REMARKS:

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MANAGER

DATE: 11/10/2009

LAB ID # 11216  
LAB ID # 11827

**Benchmark Analytics, Inc.**  
**Eastern Division**

2566 Pennsylvania Ave.  
Sayre, PA 18840

Phone: (570) 888-0169  
Fax: (570) 888-0717

Work Order: 09102974

SEND DATA TO:

NAME: Tom Delamarter  
COMPANY: Conklin, Town of  
ADDRESS: P.O. Box 182  
Conklin, NY 13748

WO#: 09102974

PAGE: 9 of 19

PO#:

PWS ID# Broome Co. DOH

PHONE: (607) 775-4584  
FAX: (607) 775-1434

**TEST REPORT**

Landfill-Routine

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DATE: 10/21/2009 17:05

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SAMPLE: **MW-12**

Lab ID: 09102974-004

SAMPLED BY: FC

Sample Time: 10/21/2009 11:05

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
pH	7.10	Field Parameters		10/21/09 11:05		
Temperature, sampled	14.2 deg C	Field Parameters		10/21/09 11:05		

SAMPLE: **MW-12**

Lab ID: 09102974-004A

SAMPLED BY: FC

Sample Time: 10/21/2009 11:05

Grab

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Alkalinity as CaCO3	98 mg/L	SM2320B	2	10/28/09 11:00	10/28/09	RHN-SA

SAMPLE: **MW-12**

Lab ID: 09102974-004B

SAMPLED BY: FC

Sample Time: 10/21/2009 11:05

Grab

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Ammonia as N	< 0.1 mg/L	Lachat	0.1	10/22/09 14:11	10/22/09	NFM-SA
Chemical Oxygen Demand	< 10 mg/L	HACH 8000	10	11/02/09 11:15	11/03/09	KAL-SA

SAMPLE: **MW-12**

Lab ID: 09102974-004C

SAMPLED BY: FC

Sample Time: 10/21/2009 11:05

Grab

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
BOD	< 6 mg/L	SM5210B	6	10/22/09 8:00	10/27/09	RHN-SA
pH	6.66@22.5°C	SM4500H+B		10/23/09 11:10	10/23/09	NFM-SA

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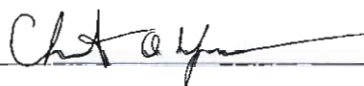
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MANAGER



DATE: 11/10/2009



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PAGE: 10 of 19

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## TEST REPORT

Landfill-Routine

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DATE: 10/21/2009 17:05

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SAMPLE: MW-12

Lab ID: 09102974-004D Grab

SAMPLED BY: FC

Sample Time: 10/21/2009 11:05

SLOQ

Test	Result	Method		Analysis Start	Analysis End	Analyst *
Chloride	5.23 mg/L	EPA 300.0	0.25	11/01/09 12:04	11/02/09	JRA-CV
Sulfate	13.9 mg/L	EPA 300.0	0.25	11/01/09 12:04	11/02/09	JRA-CV
Bromide	0.25 mg/L	EPA 300.0	0.05	11/09/09 11:31	11/09/09	JRA-CV

SAMPLE: MW-12

Lab ID: 09102974-004E Grab

SAMPLED BY: FC

Sample Time: 10/21/2009 11:05

SLOQ

Test	Result	Method		Analysis Start	Analysis End	Analyst *
Nitrate as N	0.19 mg/L	EPA 353.2	0.05	10/23/09 10:36	10/23/09	IC-SA
Total Dissolved Solids	276 mg/L	SM2540C	10	10/26/09 11:00	10/27/09	NFM-SA

SAMPLE: MW-12

Lab ID: 09102974-004F Grab

SAMPLED BY: FC

Sample Time: 10/21/2009 11:05

SLOQ

Test	Result	Method		Analysis Start	Analysis End	Analyst *
Cadmium	< 0.001 mg/L	EPA 200.7	0.001	10/23/09 13:10	10/28/09	RMD-CV
Calcium	26.0 mg/L	EPA 200.7	0.100	10/23/09 13:10	10/28/09	RMD-CV
Iron	61.9 mg/L	EPA 200.7	0.020	10/23/09 13:10	10/28/09	RMD-CV
Lead	0.027 mg/L	EPA 200.7	0.010	10/23/09 13:10	10/28/09	RMD-CV
Magnesium	14.4 mg/L	EPA 200.7	0.030	10/23/09 13:10	10/28/09	RMD-CV
Manganese	5.37 mg/L	EPA 200.7	0.018	10/23/09 13:10	10/28/09	RMD-CV
Potassium	3.17 mg/L	EPA 200.7	0.550	10/23/09 13:10	10/28/09	RMD-CV
Sodium	9.50 mg/L	EPA 200.7	0.550	10/23/09 13:10	10/28/09	RMD-CV
Thallium	0.083 mg/L	EPA 200.7	0.025	10/23/09 13:10	10/28/09	RMD-CV
Vanadium	0.031 mg/L	EPA 200.7	0.010	10/23/09 13:10	10/28/09	RMD-CV

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### TEST REPORT

Landfill-Routine

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Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Zinc	0.136 mg/L	EPA 200.7	0.005	10/23/09 13:10	10/28/09	RMD-CV
Hardness, Calculation	124 mg/L	EPA 200.7	0.373	10/23/09 13:10	10/28/09	RMD-CV
SAMPLE: MW-12 Lab ID: 09102974-004G Grab						
SAMPLED BY: FC Sample Time: 10/21/2009 11:05						
<u>SLOQ</u>						
Total Kjeldahl Nitrogen	< 1.0 mg/L	Lachat	1.0	10/27/09 10:28	10/27/09	RHN-SA
SAMPLE: MW-12 Lab ID: 09102974-004H Grab						
SAMPLED BY: FC Sample Time: 10/21/2009 11:05						
<u>SLOQ</u>						
Phenol	< 0.025 mg/L	EPA 420.4	0.025	10/28/09 11:13	10/28/09	KAL-SA
SAMPLE: MW-12 Lab ID: 09102974-004I Grab						
SAMPLED BY: FC Sample Time: 10/21/2009 11:05						
<u>SLOQ</u>						
Total Organic Carbon	2.2 mg/L	SM5310C	0.5	10/27/09 13:12	10/27/09	KAL-SA
SAMPLE: MW-37 Lab ID: 09102974-005						
SAMPLED BY: FC Sample Time: 10/21/2009 12:15						
<u>SLOQ</u>						
pH	7.45	Field Parameters		10/21/09 12:15		
Temperature, sampled	15.9 deg C	Field Parameters		10/21/09 12:15		

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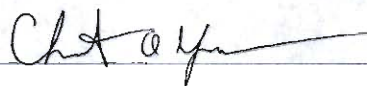
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LAB ID # 11827

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Work Order: 09102974

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WO#: 09102974

PAGE: 12 of 19

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## TEST REPORT

Landfill-Routine

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SAMPLE: **MW-37** Lab ID: 09102974-005A Grab  
SAMPLED BY: FC Sample Time: 10/21/2009 12:15  
SLOQ  

Test	Result	Method		Analysis Start	Analysis End	Analyst *
Alkalinity as CaCO3	132 mg/L	SM2320B	2	10/28/09 11:00	10/28/09	RHN-SA

SAMPLE: **MW-37** Lab ID: 09102974-005B Grab  
SAMPLED BY: FC Sample Time: 10/21/2009 12:15  
SLOQ  

Test	Result	Method		Analysis Start	Analysis End	Analyst *
Ammonia as N	< 0.1 mg/L	Lachat	0.1	10/22/09 14:11	10/22/09	NFM-SA
Chemical Oxygen Demand	< 10 mg/L	HACH 8000	10	11/02/09 11:15	11/03/09	KAL-SA

SAMPLE: **MW-37** Lab ID: 09102974-005C Grab  
SAMPLED BY: FC Sample Time: 10/21/2009 12:15  
SLOQ  

Test	Result	Method		Analysis Start	Analysis End	Analyst *
BOD	< 6 mg/L	SM5210B	6	10/22/09 8:00	10/27/09	RHN-SA
pH	7.53@22.4°C	K SM4500H+B		10/23/09 11:10	10/23/09	NFM-SA

SAMPLE: **MW-37** Lab ID: 09102974-005D Grab  
SAMPLED BY: FC Sample Time: 10/21/2009 12:15  
SLOQ  

Test	Result	Method		Analysis Start	Analysis End	Analyst *
Chloride	9.58 mg/L	EPA 300.0	0.25	11/04/09 13:26	11/05/09	JRA-CV
Sulfate	13.5 mg/L	EPA 300.0	0.25	11/04/09 13:26	11/05/09	JRA-CV
Bromide	0.10 mg/L	EPA 300.0	0.05	11/09/09 11:31	11/09/09	JRA-CV

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LAB ID # 11827

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Work Order: 09102974

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COMPANY: Conklin, Town of  
ADDRESS: P.O. Box 182  
Conklin, NY 13748

WO#: 09102974

PAGE: 13 of 19

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## TEST REPORT

PWS ID# Broome Co. DOH

Landfill-Routine

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DATE: 10/21/2009 17:05

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SAMPLE: **MW-37**

Lab ID: 09102974-005E

Grab

SAMPLED BY: FC

Sample Time: 10/21/2009 12:15

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Nitrate as N	0.12 mg/L	EPA 353.2	0.05	10/23/09 10:36	10/23/09	IC-SA
Total Dissolved Solids	188 mg/L	SM2540C	10	10/26/09 11:00	10/27/09	NFM-SA

SAMPLE: **MW-37**

Lab ID: 09102974-005F

Grab

SAMPLED BY: FC

Sample Time: 10/21/2009 12:15

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Cadmium	< 0.001 mg/L	EPA 200.7	0.001	10/23/09 13:10	10/28/09	RMD-CV
Calcium	42.6 mg/L	EPA 200.7	0.100	10/23/09 13:10	10/28/09	RMD-CV
Iron	5.25 mg/L	EPA 200.7	0.020	10/23/09 13:10	10/28/09	RMD-CV
Lead	< 0.010 mg/L	EPA 200.7	0.010	10/23/09 13:10	10/28/09	RMD-CV
Magnesium	7.34 mg/L	EPA 200.7	0.030	10/23/09 13:10	10/28/09	RMD-CV
Manganese	0.140 mg/L	EPA 200.7	0.002	10/23/09 13:10	10/28/09	RMD-CV
Potassium	5.23 mg/L	EPA 200.7	0.550	10/23/09 13:10	10/28/09	RMD-CV
Sodium	9.25 mg/L	EPA 200.7	0.550	10/23/09 13:10	10/28/09	RMD-CV
Thallium	< 0.025 mg/L	EPA 200.7	0.025	10/23/09 13:10	10/28/09	RMD-CV
Vanadium	< 0.010 mg/L	EPA 200.7	0.010	10/23/09 13:10	10/28/09	RMD-CV
Zinc	0.019 mg/L	EPA 200.7	0.005	10/23/09 13:10	10/28/09	RMD-CV
Hardness, Calculation	136 mg/L	EPA 200.7	0.373	10/23/09 13:10	10/28/09	RMD-CV

SAMPLE: **MW-37**

Lab ID: 09102974-005G

Grab

SAMPLED BY: FC

Sample Time: 10/21/2009 12:15

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Total Kjeldahl Nitrogen	< 1.0 mg/L	Lachat	1.0	10/27/09 10:28	10/27/09	RHN-SA

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Landfill-Routine

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Page 14 of 19

SAMPLE: **MW-37**

Lab ID: 09102974-005H

Grab

SAMPLED BY: FC

Sample Time: 10/21/2009 12:15

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Phenol	< 0.025 mg/L	EPA 420.4	0.025	10/28/09 11:13	10/28/09	KAL-SA

SAMPLE: **MW-37**

Lab ID: 09102974-005I

Grab

SAMPLED BY: FC

Sample Time: 10/21/2009 12:15

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Total Organic Carbon	< 0.5 mg/L	SM5310C	0.5	10/27/09 13:12	10/27/09	KAL-SA

SAMPLE: **MW-38D**

Lab ID: 09102974-006

Grab

SAMPLED BY: FC

Sample Time: 10/21/2009 14:00

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
pH	7.45	Field Parameters		10/21/09 14:00		
Temperature, sampled	16.3 deg C	Field Parameters		10/21/09 14:00		

SAMPLE: **MW-38D**

Lab ID: 09102974-006A

Grab

SAMPLED BY: FC

Sample Time: 10/21/2009 14:00

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Alkalinity as CaCO3	182 mg/L	SM2320B	2	10/28/09 11:00	10/28/09	RHN-SA

SAMPLE: **MW-38D**

Lab ID: 09102974-006B

Grab

SAMPLED BY: FC

Sample Time: 10/21/2009 14:00

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Ammonia as N	< 0.1 mg/L	Lachat	0.1	10/22/09 14:11	10/22/09	NFM-SA
Chemical Oxygen Demand	28 mg/L	HACH 8000	10	11/02/09 11:15	11/03/09	KAL-SA

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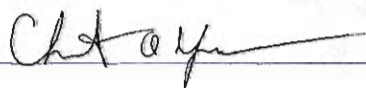
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## TEST REPORT

Landfill-Routine

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SAMPLE: **MW-38D**

Lab ID: 09102974-006C

Grab

SAMPLED BY: FC

Sample Time: 10/21/2009 14:00

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
BOD	< 6 mg/L	SM5210B	6	10/22/09 8:00	10/27/09	RHN-SA
pH	7.62@22.3°C	K SM4500H+B		10/23/09 11:10	10/23/09	NFM-SA

SAMPLE: **MW-38D**

Lab ID: 09102974-006D

Grab

SAMPLED BY: FC

Sample Time: 10/21/2009 14:00

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Chloride	10.8 mg/L	EPA 300.0	0.25	11/04/09 13:26	11/05/09	JRA-CV
Sulfate	7.29 mg/L	EPA 300.0	0.25	11/04/09 13:26	11/05/09	JRA-CV
Bromide	0.15 mg/L	Q EPA 300.0	0.05	11/09/09 11:31	11/09/09	JRA-CV

SAMPLE: **MW-38D**

Lab ID: 09102974-006E

Grab

SAMPLED BY: FC

Sample Time: 10/21/2009 14:00

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Nitrate as N	0.13 mg/L	EPA 353.2	0.05	10/23/09 10:36	10/23/09	IC-SA
Total Dissolved Solids	405 mg/L	SM2540C	10	10/26/09 11:00	10/27/09	NFM-SA

SAMPLE: **MW-38D**

Lab ID: 09102974-006F

Grab

SAMPLED BY: FC

Sample Time: 10/21/2009 14:00

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Cadmium	< 0.009 mg/L	EPA 200.7	0.009	10/23/09 13:10	10/29/09	RMD-CV
Calcium	79.0 mg/L	EPA 200.7	0.900	10/23/09 13:10	10/29/09	RMD-CV
Iron	671 mg/L	EPA 200.7	0.180	10/23/09 13:10	10/29/09	RMD-CV
Lead	0.328 mg/L	EPA 200.7	0.170	10/23/09 13:10	10/30/09	RMD-CV

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2566 Pennsylvania Ave.  
Sayre, PA 18840

Phone: (570) 888-0169  
Fax: (570) 888-0717

Work Order: 09102974

SEND DATA TO:

NAME: Tom Delamarter  
COMPANY: Conklin, Town of  
ADDRESS: P.O. Box 182  
Conklin, NY 13748

WO#: 09102974

PAGE: 16 of 19

PO#:

PWS ID# Broome Co. DOH

PHONE: (607) 775-4584  
FAX: (607) 775-1434

**TEST REPORT**

Landfill-Routine

RECEIVED FOR LAB BY: DLM2

DATE: 10/21/2009 17:05

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Parameter	Result	Method	Concentration	Analysis Date	Analysis Time	Analyst
Magnesium	136 mg/L	EPA 200.7	0.270	10/23/09 13:10	10/29/09	RMD-CV
Manganese	19.8 mg/L L	EPA 200.7	0.034	10/23/09 13:10	10/30/09	RMD-CV
Potassium	12.3 mg/L	EPA 200.7	4.95	10/23/09 13:10	10/29/09	RMD-CV
Sodium	34.9 mg/L	EPA 200.7	4.95	10/23/09 13:10	10/29/09	RMD-CV
Thallium	0.259 mg/L	EPA 200.7	0.225	10/23/09 13:10	10/29/09	RMD-CV
Vanadium	0.295 mg/L	EPA 200.7	0.090	10/23/09 13:10	10/29/09	RMD-CV
Zinc	1.60 mg/L	EPA 200.7	0.045	10/23/09 13:10	10/29/09	RMD-CV
Hardness, Calculation	757 mg/L	EPA 200.7	3.36	10/23/09 13:10	10/29/09	RMD-CV

SAMPLE: **MW-38D** Lab ID: 09102974-006G Grab  
SAMPLED BY: FC Sample Time: 10/21/2009 14:00

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Total Kjeldahl Nitrogen	< 1.0 mg/L	Lachat	1.0	10/27/09 10:28	10/27/09	RHN-SA

SAMPLE: **MW-38D** Lab ID: 09102974-006H Grab  
SAMPLED BY: FC Sample Time: 10/21/2009 14:00

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Phenol	0.327 mg/L	EPA 420.4	0.025	10/28/09 11:13	10/28/09	KAL-SA

SAMPLE: **MW-38D** Lab ID: 09102974-006I Grab  
SAMPLED BY: FC Sample Time: 10/21/2009 14:00

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Total Organic Carbon	0.7 mg/L	SM5310C	0.5	10/27/09 13:12	10/27/09	KAL-SA

REMARKS:

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K Sample was received past holding time.

L Value above calibration range but within annually verified linear range

MS Limit of detection increased due to matrix interference and spike recovery data

Q Due to matrix effects, not all quality control parameters met acceptance criteria

MANAGER

DATE: 11/10/2009

LAB ID # 11216  
LAB ID # 11827

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Landfill-Routine

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SAMPLE: **SW-Carlin**  
SAMPLED BY: FC

Lab ID: 09102974-007

Sample Time: 10/21/2009 14:20

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
pH	6.84	Field Parameters		10/21/09 14:20		
Temperature, sampled	15.9 deg C	Field Parameters		10/21/09 14:20		

SAMPLE: **SW-Carlin**  
SAMPLED BY: FC

Lab ID: 09102974-007A

Sample Time: 10/21/2009 14:20

Grab

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Alkalinity as CaCO3	50 mg/L	SM2320B	2	10/28/09 11:00	10/28/09	RHN-SA

SAMPLE: **SW-Carlin**  
SAMPLED BY: FC

Lab ID: 09102974-007B

Sample Time: 10/21/2009 14:20

Grab

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Ammonia as N	< 0.1 mg/L	Lachat	0.1	10/22/09 14:11	10/22/09	NFM-SA
Chemical Oxygen Demand	< 10 mg/L	HACH 8000	10	11/02/09 11:15	11/03/09	KAL-SA

SAMPLE: **SW-Carlin**  
SAMPLED BY: FC

Lab ID: 09102974-007C

Sample Time: 10/21/2009 14:20

Grab

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
BOD	< 6 mg/L	SM5210B	6	10/22/09 8:00	10/27/09	RHN-SA
pH	7.23@22.1°C	SM4500H+B		10/23/09 11:10	10/23/09	NFM-SA

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Page 18 of 19

SAMPLE: **SW-Carlin**  
SAMPLED BY: FC

Lab ID: 09102974-007D  
Sample Time: 10/21/2009 14:20

Grab

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Chloride	44.9 mg/L	EPA 300.0	0.25	11/01/09 12:04	11/02/09	JRA-CV
Sulfate	10.9 mg/L	EPA 300.0	0.25	11/01/09 12:04	11/02/09	JRA-CV
Bromide	< 0.05 mg/L	EPA 300.0	0.05	11/09/09 11:31	11/09/09	JRA-CV

SAMPLE: **SW-Carlin**  
SAMPLED BY: FC

Lab ID: 09102974-007E  
Sample Time: 10/21/2009 14:20

Grab

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Nitrate as N	0.16 mg/L	EPA 353.2	0.05	10/23/09 10:36	10/23/09	IC-SA
Total Dissolved Solids	160 mg/L	SM2540C	10	10/26/09 11:00	10/27/09	NFM-SA

SAMPLE: **SW-Carlin**  
SAMPLED BY: FC

Lab ID: 09102974-007F  
Sample Time: 10/21/2009 14:20

Grab

SLOQ

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Cadmium	< 0.001 mg/L	EPA 200.7	0.001	10/24/09 10:50	10/28/09	RMD-CV
Calcium	18.2 mg/L	EPA 200.7	0.100	10/24/09 10:50	10/28/09	RMD-CV
Iron	< 0.020 mg/L	EPA 200.7	0.020	10/24/09 10:50	10/28/09	RMD-CV
Lead	< 0.010 mg/L	EPA 200.7	0.010	10/24/09 10:50	10/28/09	RMD-CV
Magnesium	4.28 mg/L	EPA 200.7	0.030	10/24/09 10:50	10/28/09	RMD-CV
Manganese	0.006 mg/L	EPA 200.7	0.002	10/24/09 10:50	10/28/09	RMD-CV
Potassium	1.72 mg/L	EPA 200.7	0.550	10/24/09 10:50	10/28/09	RMD-CV
Sodium	25.0 mg/L	EPA 200.7	2.75	10/24/09 10:50	10/29/09	RMD-CV
Thallium	< 0.025 mg/L	EPA 200.7	0.025	10/24/09 10:50	10/28/09	RMD-CV
Vanadium	< 0.010 mg/L	EPA 200.7	0.010	10/24/09 10:50	10/28/09	RMD-CV

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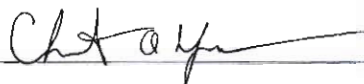
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Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Zinc	0.005 mg/L	EPA 200.7	0.005	10/24/09 10:50	10/28/09	RMD-CV
Hardness, Calculation	63.0 mg/L	EPA 200.7	0.373	10/24/09 10:50	10/28/09	RMD-CV
SAMPLE: <b>SW-Carlin</b> Lab ID: 09102974-007G Grab						
SAMPLED BY: FC Sample Time: 10/21/2009 14:20						
<u>SLOQ</u>						
Total Kjeldahl Nitrogen	< 1.0 mg/L	Lachat	1.0	10/27/09 10:28	10/27/09	RHN-SA
SAMPLE: <b>SW-Carlin</b> Lab ID: 09102974-007H Grab						
SAMPLED BY: FC Sample Time: 10/21/2009 14:20						
<u>SLOQ</u>						
Phenol	< 0.025 mg/L	EPA 420.4	0.025	10/28/09 11:13	10/28/09	KAL-SA
SAMPLE: <b>SW-Carlin</b> Lab ID: 09102974-007I Grab						
SAMPLED BY: FC Sample Time: 10/21/2009 14:20						
<u>SLOQ</u>						
Total Organic Carbon	1.8 mg/L	SMS310C	0.5	10/27/09 13:12	10/27/09	KAL-SA

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8. Brief resume of key persons, specialists, and individual consultants anticipated for this project (minimum 10 point font, no more than one page per resume.)

a. Name & Title: Christopher S. Dousharm, Environmental Engineer

b. Assignment Title for this project (include ASCE/NICET grade, if applicable): Project Manager

c. Firm this person will work for on this project: Shumaker Consulting Engineering & Land Surveying, P.C.

Employment Status:  Current Employee  Seasonal  Unemployed  Employed by a Different Firm

d. Years of experience:   
 With This Firm 4   
 With Other Firms 8

e. Education: Degree(s)/Year/Specialization: B.S., Environmental Engineering, Rensselaer Polytechnic Institute, 1994

f. Active Registration: Year First Registered/Discipline: -

g. Availability Date (if currently on NYSDOT CI project, confirm with NYSDOT): -

h. Other Relevant Experience & Qualifications (if submitting for construction or bridge inspection, include current assignment, contract name and phone number:   
 **NYSDOL certified Asbestos Building Inspector/Project Designer; Hazardous Waste Operations Health and Safety, (HAZWOPER)**

Mr. Dousharm has twelve years of experience as an environmental engineer performing various industrial environmental tasks. He has been Project Manager for numerous air emissions inventory and operating permit application projects, has coordinated emission source testing projects, and performed air toxic modeling, compliance monitoring, recordkeeping and reporting. He has been responsible for performing asbestos and lead assessment surveys, and for preparing Project Abatement Specifications in compliance with applicable federal, state, and local regulations.

**2005-Present/D015405 Term Agreement for Asbestos Materials NYSDOT Regions 1, 2, 7, & 9/\$750K (FEE)/72%/Prime** – Under this multi-year, term agreement, SCE is providing specialized services, including asbestos assessment, abatement design, and project monitoring, as required to address asbestos-containing materials (ACM) on State highway structures. To date, SCE personnel have completed a substantial number project assignments (>30 individual PINs), at bridge and highway locations throughout NYSDOT Regions 1, 2, 7, and 9. Mr. Dousharm was responsible for contract management, quality assurance coordination, asbestos abatement design and cost estimation tasks, field sampling activities, assessment investigation for projects during this agreement including the following three assignments:

**2006/Asbestos Inspector/PIN 9357.64.111 General Bridge Repairs-4 Bridges, I-88, Exit 13 to 16, 9/7.1K (FEE)/72%/Prime** – SCE provided asbestos assessment, sampling, testing and specifications for general bridge repair work 4 bridges located on I-88. Mr. Dousharm performed quality assurance review and conducted asbestos inspection of bridge components.

**2006/Asbestos Inspector/ PIN 2095.30.321 Rte. 10 over Mohawk River/CSX, Villages of Canajoharie & Palatine Bridge, Montgomery County/10.9K (FEE)/72%/Prime** - SCE provided asbestos sampling testing and specifications, including a preparation of a site-specific variance, for this bridge project. SCE obtain the necessary right of entry permit from CSX in order to access the underside of the bridge structure. Mr. Dousharm performed asbestos assessment, quality assurance review, managed asbestos abatement design, and coordinated the final asbestos inspection report.

**2006/Asbestos Inspector/PIN 2125.15.121, Route 30A over CSX Railway/7.3K (FEE)/72%/Prime**– SCE provided asbestos sampling, and testing to support replacement of one bridge over the CSX railway. Mr. Dousharm performed quality assurance review and conducted asbestos inspection of bridge components.

**2001-2004/Asbestos Inspector/D012605, PIN S000.13 Term Agreement for Asbestos Services, Various Counties, NY/ NYSDOT/\$850K/77%/Prime** - This multi-year, term agreement provided specialized services, including asbestos assessment, abatement design, and project monitoring for asbestos-containing materials (ACM). Design tasks included abatement cost estimation; determination of appropriate abatement methods, NYSDOT Specification Item numbers, and applicable NYSDOL Blanket Variances; and preparation of project specific special notes. Mr. Dousharm performed quality assurance review and coordination of the final asbestos inspection report and asbestos abatement design services for projects during this agreement including the following assignment:

**2004/Asbestos Designer/PIN 7033.07, Route 342 over CSX RR, Jefferson County, NY/\$18.7K (FEE)/77%/Prime** - This project involved demolition and replacement of the railroad bridge and demolition of one residential structure for re-alignment of the bridge. Mr. Dousharm performed quality assurance review and coordination of the final asbestos inspection report and asbestos abatement design services. He prepared abatement cost estimation; determination of appropriate abatement methods, NYSDOT Specification Item numbers, and applicable NYSDOL Blanket Variances; and preparation of project specific special notes.