



# EXCAVATION WORK PLAN

National Grid Former MGP Site  
35 Amsden St., Malone, N.Y.

Site # V00469-Pritchard Property  
Tax Parcel 98.81-1-4

Prepared by:

OP-TECH Environmental Services, Inc.  
63 Trade Road, Bldg. # 4  
Massena, N.Y. 13662

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## Introduction

This Excavation Work Plan (EWP) has been developed to provide both general procedures and specific requirements to be followed by OP-TECH Environmental Services, Inc. (OP-TECH) personnel while performing excavation activities on Tax Parcel 98.81-1-4 identified as the Pritchard Property, 80 Coffee St., Malone, N.Y. Any reference to OP-TECH shall imply any and all parties subcontracted for specific portions of this project. Review of this EWP is required by OP-TECH personnel and documented by signature on **Attachment A** of this EWP.

This EWP describes the outline of activities required for removal of MGP impacted soil and debris from test pit locations CTP-1, CTP-2, CTP-2A, CTP-2B, and CTB-2C as identified on Arcadis Interim Remedial Measure (IRM) Work Plan dated Nov.- 2013, Drawing # 3. This EWP will also detail the performance of work as specified within submittals required within the Arcadis IRM Work Plan-Appendix B. These activities are as follows:

- A. Operations Plan
- B. Contingency Plan
- C. Health & Safety Plan
- D. Survey Control
- E. Soil Disposal
- F. Imported Fill
- G. Fertilizer & Seeding

## I. Operations Plan

### 1. Schedule of Equipment

- Kobelco 80 Excavator
- Tandem Wheel Dump Truck
- 20-Ton Equipment Trailer
- Utility Truck
- 3,000 PSI Pressure Washer

### 2. List of Key OP-TECH Personnel (Attachment I-Resumes)

- |                    |                   |
|--------------------|-------------------|
| • Guy Griffin      | Project Manager   |
| • Tom Hunter       | Onsite Supervisor |
| • Robert Sanderson | Foreman           |
| • Ed Gilson        | Operator          |
| • TBD              | Field Technician  |

3. Site Security

The site is currently protected from access by placement of large diameter boulders across the opening at the lower end of Coffee St. These boulders will be moved aside to allow temporary access during the project and replaced at the end of the project. A high visibility fence will be erected across the opening during IRM activities.

4. Erosion & Sediment Control Procedures

Straw bales and silt fence will be installed per Arcadis Drawing # 4 / Details 1 & 2, down gradient of the excavation area(s) prior to disturbance and remain in place until reestablishment of vegetation in 2014.

5. VOC & Odor Control Procedures

Bio-Solve vapor suppression agent will be available for application by portable bug sprayer should VOC/odor control be required.

6. Dust Control Procedures

A 3,000 PSI trailer mounted pressure washer will be stationed near the excavation sites to provide control of fugitive dust as needed. Fugitive dust will be monitored using a Dust-Trak 1000, or equal, real time aerosol monitor.

7. Disposal Facility

County of Franklin Solid Waste Management Authority  
828 County Route 20  
Constable, N.Y. 12926  
NYSDEC Part 360 Permit # 5-1699-00003 / 00005

8. Construction Traffic Pattern

Traffic will enter and exit via the Coffee Street access point onto the Pritchard Property. Minimal traffic is scheduled with transport of excavated soil out and backfill in to be by one load at a time. Drivers will be directed as necessary to specific locations for turnaround as determined by terrain stability or backed in from the Coffee Street access point if a suitable turnaround location is not available. Route to each test pit location will be direct along the established route currently established.

9. Excavation & Backfilling Sequence / Techniques

- Mobilization
- Relocate boulders at access point to Pritchard Property from Coffee St.
- Survey to locate CTP-1 followed by CTP-2 excavation limits and existing surface elevations
- Install erosion control measures around down gradient sides of CTP-1 / CTP-2
- Erect Exclusion Zone (EZ) fence around perimeter of CTP-1 / CTP-2
- Prepare Contaminant Reduction Zone (CRZ) for personnel, dump truck and equipment decontamination around CTP-1 / CTP-2
- Arcadis set up CAMP monitoring at upwind / downwind perimeter locations
- Line dump truck(s) with polyethylene sheeting taking care to lap over sides of dump box for protection from incidental soil debris
- Excavate CTP-1 to established limits and/or as directed by Arcadis engineer
- Record / monitor fugitive dust with aerosol detector
- Apply dust / odor controls as needed
- Survey to record excavation limits when Arcadis engineer confirms soil removal is complete
- Clean / decon excavator of any soil debris and/or wrap bucket before moving to CTP-2
- Secure EZ fence around CTP-1
- Excavate CTP-2 to established limits and/or as directed by Arcadis engineer
- Record / monitor fugitive dust with aerosol detector
- Apply dust / odor controls as needed
- Dispose of all accumulated consumables (polyethylene sheeting, PPE, etc.) with last dump truck leaving the site
- Survey to record CTP-2 excavation limits when Arcadis engineer confirms soil removal is complete
- Remove EZ / CRZ fencing prior to beginning backfill of CTP-2
- Backfill CTP-2 with approved sand in maximum 12-inch lifts to approximately 6-inches below surface grade. Bucket tamp and /or track-walk each lift to achieve visual compaction
- Remove EZ / CRZ fencing prior to beginning backfill of CTP-2
- Backfill CTP-1 with approved sand in same procedure
- Finish grade disturbed areas of CTP-1 and CTP-2 with 6-inches of approved topsoil
- Hydro-seed topsoil areas of CTP-1 and CTP-2
- Survey to record finish grade elevations of CTP-1 and CTP-2
- Demobilize from site

10. Equipment Cleaning / Decontamination

The tandem wheel dump trucks will be backed up to each excavation onto a layer of 6-mil polyethylene sheeting used to collect any residual debris that may spill during the loading procedure. The sheeting will also be placed to cover the ground beneath the swing radius of the excavator during loading procedures. A 6-mil layer of polyethylene sheeting will be placed in the box of the dump truck and draped over each side to minimize protect from potential spillage during the loading procedures.

When loading of each truck has been completed, any residual debris will be swept from the sheeting and it will be secured within the box of the dump truck. Any residual debris will be cleaned from the surfaces of the dump truck sides, tires, tail gate, etc. and the surface of the ground sheeting swept clear of the dump truck and back into the excavation. An acceptable visual inspection of the dump truck will be made by OP-TECH prior to issuing a Bill of Lading and release from the site.

## II. Contingency Plan

1. Emergency Vehicle Access

Emergency access will be via the Coffee St. access on to the Pritchard property. Reference **Attachment B** for route to the Malone-Alice Hyde Hospital.

2. Evacuation Procedures

In the event of a site evacuation type emergency, OP-TECH personnel will assemble at the site access point on Coffee Street, the onsite OP-TECH project supervisor will confirm all personnel are accounted for and await further direction from Arcadis.

3. Emergency Contact List

Reference **Attachment C** for the emergency contact list.

4. Identification of Responsible Personnel

OP-TECH site supervisor Tom Hunter will be on site at all times during OP-TECH activities to provide coordination of OP-TECH personnel and equipment should they be required in the event of an emergency related to this project.

### III. Health & Safety Plan

Provided as a separate plan.

### IV. Survey Control

Survey control will be provided by Thew Associates PE-LS, PLLC, Canton, N.Y. They will record survey data as identified in Section IV, which will include horizontal limits of the excavation(s), pre / post surface elevations, and furnish preliminary as-built drawings for engineer review / approval and final as-built drawings in hard copy (6) and electronic with stamped and signed by a New York State licensed Professional Land Surveyor. Thew Associates contact information is as follows:

Thew Associates PE-LS, PLLC  
PO Box 463  
6431 US Highway 11  
Canton, New York 13617  
315.386.2776  
Contact: Jeremy Sweeney

### V. Soil Disposal

Waste disposal profiles will be submitted to Arcadis for disposal of excavated soil at the County of Franklin Solid Waste Management Authority landfill located at 828 County Route 20, Constable, N.Y. Upon approval by Arcadis, the waste profiles will be transmitted to the landfill for acceptance.

OP-TECH will provide disposal transportation of the excavated soil to the National Grid approved County of Franklin SWMA landfill. A copy of the OP-TECH NYSDEC Part 364 Waste Transporter Permit 6A-166 is included as **Attachment D**. Upon completion of the project, OP-TECH will submit copies of the countersigned waste manifests and facility disposal receipts for record.

### VI. Imported Fill

- A. Imported sand backfill and topsoil will be provided from the Stark's Gravel Co., 295 County Route 40, Constable, N.Y., operating under NYSDEC Permit # 5-1656-00053/00001 (**Attachment E**). Samples of each material were collected from the pit and transported to Atlantic Testing Laboratories in Canton, N.Y. on 11/20/2013 for analysis as identified in Section VI of the IRM Work Plan. Results of the sand backfill gradation and the topsoil PH/organics content were transmitted electronically to Arcadis on 11/20 and 11/25/13 respectively.

- B. Gradation of sand backfill is identified in ATL Report # CT3419S1 and included in this EWP as **Attachment F**.
- C. PH and organic content is identified in ATL Report # ATL Report # CT3419SL-02-11-13 and included in the EWP as **Attachment G**.
- D. A Bill of Lading will be issued for each load of excavated soil to be transported offsite for disposal. A copy of the completed BOL and disposal facility weight ticket will be submitted to the Arcadis engineer upon completion of the project. The BOL will include the following:
  - 1) Source name / address
  - 2) Date
  - 3) Truck number
  - 4) Name of purchaser
  - 5) Name of shipping company
  - 6) Project name and location
  - 7) Transporter's name
  - 8) Load description
  - 9) Estimated gross and net weight of load

## VII. Fertilizer and Seeding

- A. Fertilizer, grass seed, and mulch will be provided in a hydro-seed application following placement of topsoil for all areas disturbed. A copy of the hydro-seed mixture data is included as **Attachment H**.



## Attachment A

## EMPLOYEE ACKNOWLEDGEMENT

I acknowledge that I have reviewed the information in this Site Specific Operations Work Plan for the excavation of MGP impacted soils on Tax Parcel # 98.81-1-4 located at 80 Coffee St., Malone, N.Y. I understand the site hazards as described and agree to comply with the contents of this Plan.

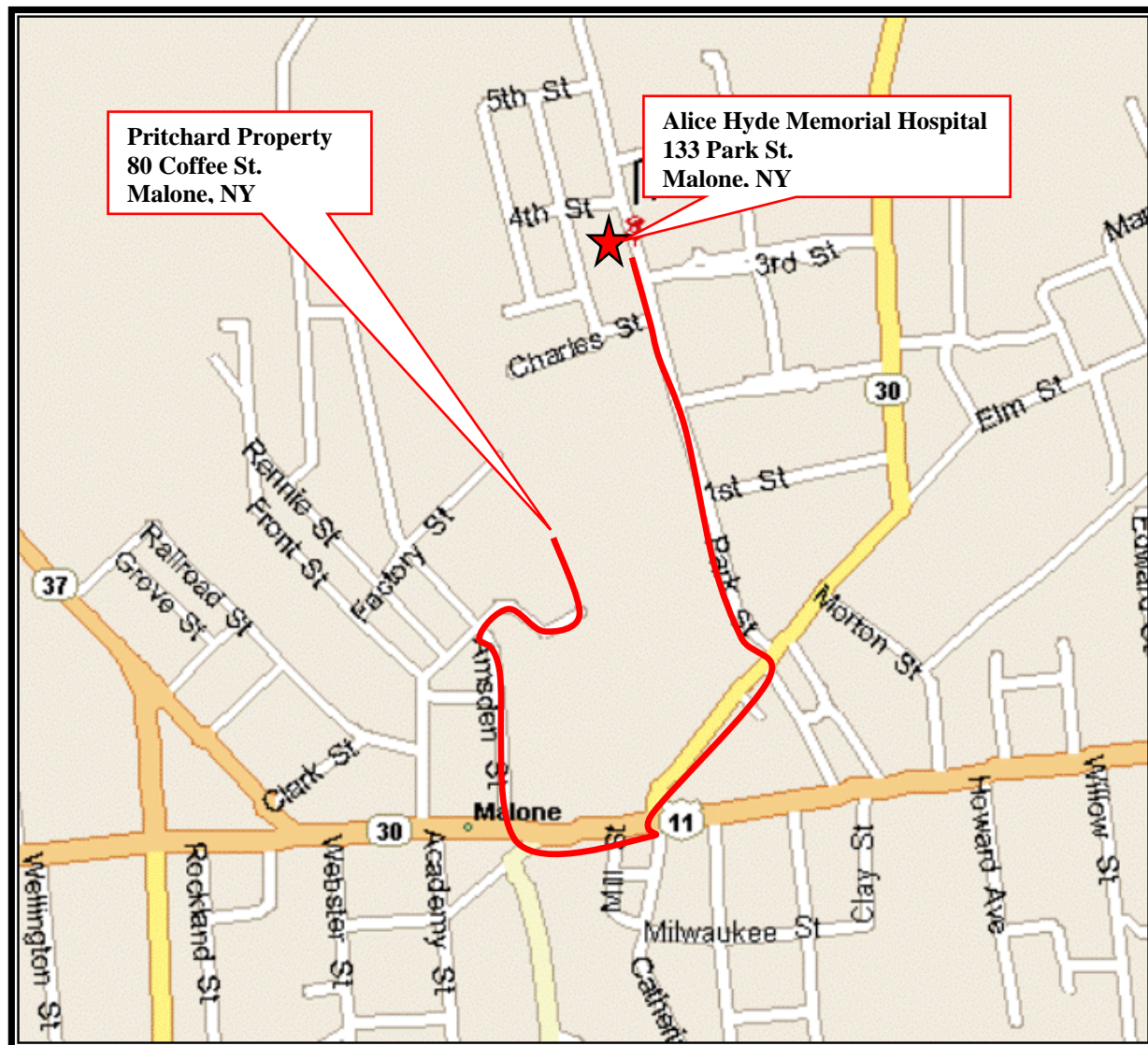
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ATTACHMENT B

EMERGENCY ROUTE TO ALICE HYDE HOSPITAL

## Attachment B

### Emergency Route to ALICE HYDE MEMORIAL HOSPITAL



Exit jobsite and travel East 0.1 mile on 80 Coffee St. Turn South 0.1 miles on Amsden St to U.S. Route 11. Turn East on U.S. route 11, travel approx. 0.3 miles and turn left onto Elm St. Travel approximately 0.1 miles and turn left onto Park St. Travel on Park St approximately 0.5 miles to Alice Hyde Memorial Hospital located at 133 Park St.

ATTACHMENT C

EMERGENCY CONTACT LIST

## **EMERGENCY CONTACT NUMBERS**

<b>CONTACT</b>		<b>PHONE NUMBER</b>
General Emergency Assistance (Franklin Cty.)		911
Fire Department (via Franklin Cty. Fire Control)		911
Malone Fire Department (non-emergency)		518-483-1211
Malone Police Department		518-483-2424
NYS Police Department-Franklin Cty. Sheriff's Dept. (via Franklin Cty. Fire Control)		911
Alice Hyde Medical Center, 133 Park Street, Malone, N.Y.		911 518-483-3000
Poison Control Center		1-800-282-3171
Franklin County Public Health Department (335 West Main St., Malone, N.Y. )		518-483-1709
National Response Center		1-800-424-8802
NYSDEC Spill Hotline		1-800-457-7362
NYSDEC Region 5 - Ray Brook, N.Y.		518-897-1242
USEPA		212-637-3000
National Grid - Steven Stucker	Office	315-428-5652
	Cell	315-247-6490
OP-TECH Environmental Services, Inc.		Office 315-764-1917
Guy Griffin	Cell	315-250-7696
Tom Hunter	Cell	315-250-7694

ATTACHMENT D

OP-TECH; NYSDEC PART 364 WASTE TRANSPORTER PERMIT # 6A-166

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
DIVISION OF MATERIALS MANAGEMENT

**PART 364**  
**WASTE TRANSPORTER PERMIT NO. 6A-166**

Pursuant to Article 27, Titles 3 and 15 of the Environmental Conservation Law and 6 NYCRR 364

**PERMIT ISSUED TO:**

OP-TECH ENVIRONMENTAL SERVICES, INC.  
1 ADLER DRIVE  
EAST SYRACUSE, NY 13057

**PERMIT TYPE:**

☐ NEW  
☒ RENEWAL  
☐ MODIFICATION

CONTACT NAME: VINNY SNYDER  
COUNTY: ONONDAGA  
TELEPHONE NO: (607)565-8892

EFFECTIVE DATE: 02/01/2013  
EXPIRATION DATE: 01/31/2014  
US EPA ID NUMBER: NYD986980753

**AUTHORIZED WASTE TYPES BY DESTINATION FACILITY: (Continued)**

The Permittee is Authorized to Transport the Following Waste Type(s) to the Destination Facility listed :

Destination Facility	Location	Waste Type(s)	Note
Envirosafe Services of Ohio, Inc.	Oregon , OH	Non-Hazardous Industrial/Commercial Asbestos Petroleum Contaminated Soil Hazardous Industrial/Commercial	
EQ OF CANTON (FORMERLY ENVIRITE OF OHIO, INC.)	CANTON , OH	Non-Hazardous Industrial/Commercial Hazardous Industrial/Commercial Waste Oil	
ESMI OF NEW YORK	FORT EDWARD , NY	Non-Hazardous Industrial/Commercial Petroleum Contaminated Soil	
EVERCLEAR	AUSTINTOWN , OH	Non-Hazardous Industrial/Commercial Waste Oil	
EXIDE BATTERY	SYRACUSE , NY	Hazardous Industrial/Commercial	
EXIDE TECHNOLOGIES	MUNCIE , IN	Non-Hazardous Industrial/Commercial Hazardous Industrial/Commercial	
FRANK E VAN LARE WASTEWATER TREATMENT	ROCHESTER , NY	Non-Hazardous Industrial/Commercial Septage only (residential) Non-Residential Raw Sewage or Sewage-Contaminated Wastes Sludge from Sewage or Water Supply Treatment Plant	
FRANKLIN COUNTY SOLID WASTE MANAGEMENT AUTHORITY	CONSTABLE , NY	Non-Hazardous Industrial/Commercial Asbestos Petroleum Contaminated Soil Sludge from Sewage or Water Supply Treatment Plant	
FULTON COUNTY LANDFILL	JOHNSTOWN , NY	Non-Hazardous Industrial/Commercial Asbestos Petroleum Contaminated Soil Sludge from Sewage or Water Supply Treatment Plant	
GENERAL CHEMICAL CORPORATION	FRAMINGHAM , MA	Non-Hazardous Industrial/Commercial Asbestos Petroleum Contaminated Soil Grease Trap Waste Hazardous Industrial/Commercial Waste Oil	

\*\*\* AUTHORIZED WASTE TYPES BY DESTINATION FACILITY LISTING (continued on next page) \*\*\*



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
DIVISION OF MATERIALS MANAGEMENT

PART 364

WASTE TRANSPORTER PERMIT NO. 6A-166

Pursuant to Article 27, Titles 3 and 15 of the Environmental Conservation Law and 6 NYCRR 364

PERMIT ISSUED TO:

OP-TECH ENVIRONMENTAL SERVICES, INC.  
1 ADLER DRIVE  
EAST SYRACUSE, NY 13057

PERMIT TYPE:

☐ NEW  
☒ RENEWAL  
☐ MODIFICATION

CONTACT NAME: VINNY SNYDER  
COUNTY: ONONDAGA  
TELEPHONE NO: (607)565-8892

EFFECTIVE DATE: 02/01/2013  
EXPIRATION DATE: 01/31/2014  
US EPA ID NUMBER: NYD986980753

AUTHORIZED VEHICLES:

The Permittee is Authorized to Operate the Following Vehicles to Transport Waste:

(Vehicles enclosed in <>'s are authorized to haul Residential Raw Sewage and/or Septage only)

95 (Ninety Five) Permitted Vehicle(s)

NY 10856PB	NY 63554JT	NY AV22316
NY 11736MC	NY 67879JP	NY AV25258
NY 15392PC	NY 69243PA	NY BC12241
NY 1708B3	NY 69244PA	NY BD23924
NY 17753PB	NY 69245PA	PA YYJ2511
NY 17755PB	NY 70713JV	End of List
NY 19185PC	NY 70715JV	
NY 19417PC	NY 70789JF	
NY 19427PB	NY 72387JW	
NY 19444PC	NY 73887JW	
NY 19450JW	NY 75370JV	
NY 19452JW	NY 77539JU	
NY 19856PC	NY 81383JV	
NY 19950JX	NY 81669JV	
NY 19959JX	NY 81670JV	
NY 24283JW	NY 82193PA	
NY 24803JU	NY 82504JR	
NY 28311JS	NY 82509JR	
NY 28609JM	NY 84819PA	
NY 28610JM	NY 90840JZ	
NY 28611JM	NY 98199JL	
NY 28618JM	NY 99158JR	
NY 28845JS	NY 99160JR	
NY 30972JV	NY 99162JR	
NY 3112073	NY 99163JR	
NY 31495JS	NY AA32162	
NY 33402JM	NY AA93078	
NY 33403JM	NY AD38132	
NY 34320JR	NY AD38134	
NY 38177JW	NY AD38135	
NY 39055KA	NY AD38136	
NY 39332PA	NY AD38137	
NY 39914MB	NY AD38138	
NY 40600PA	NY AJ10164	
NY 40602PA	NY AN29062	
NY 40604PA	NY AN88563	
NY 41637JA	NY AP31897	
NY 42463JP	NY AR46264	
NY 47812JT	NY AR96961	
NY 47991JT	NY AR96995	
NY 49353JY	NY AS80986	
NY 49597JK	NY AT25137	
NY 52419PA	NY AT25348	
NY 53480JP	NY AU59411	
NY 63552JT	NY AV22201	



ATTACHMENT E

STARKS GRAVEL CO.: NYSDEC PERMIT # 5-1656-00013

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
Facility DEC ID 5-1656-00013



## PERMIT

### Under the Environmental Conservation Law (ECL)

#### Permittee and Facility Information

**Permit Issued To:**

JUDITH A STARK  
295 CO RTE 40  
CONSTABLE, NY 12926

**Facility:**

STARKS GRAVEL CO  
BRIGGS ST RD  
WESTVILLE, NY 12926

**Facility Location:** in WESTVILLE in FRANKLIN COUNTY

**Facility Principal Reference Point:** NYTM-E: 547.8 NYTM-N: 4981.2

Latitude: 44°58'57.5" Longitude: 74°23'37.3"

**Authorized Activity:** The mining of sand and gravel with material processing on lands owned by the permittee. Approved operations will affect the entire 61.2 acre life of mine area over the permit term, as identified in the approved mined land use plan.

#### Permit Authorizations

**Mined Land Reclamation - Under Article 23, Title 27**

Permit ID 5-1656-00013/00003

(Mined Land ID 50620)

Renewal

Effective Date: 7/3/2013

Expiration Date: 7/2/2018

#### NYSDEC Approval

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, and all conditions included as part of this permit.

Permit Administrator: ERIN L BURNS, Deputy Regional Permit Administrator

Address: NYSDEC REGION 5 HEADQUARTERS  
1115 NYS ROUTE 86  
PO BOX 296  
RAY BROOK, NY 12977 -0296

Authorized Signature: Erin L Burns

Date 6/11/13

ATTACHMENT F

ATL REPORT # CT3419S1 – SAND GRADATION

# Particle Size Distribution Report

**Project:** PO# MNM-04484-GPG

**Report No.:** CT3419SL-01-11-13

**Client:** OP-TECH Environmental Services

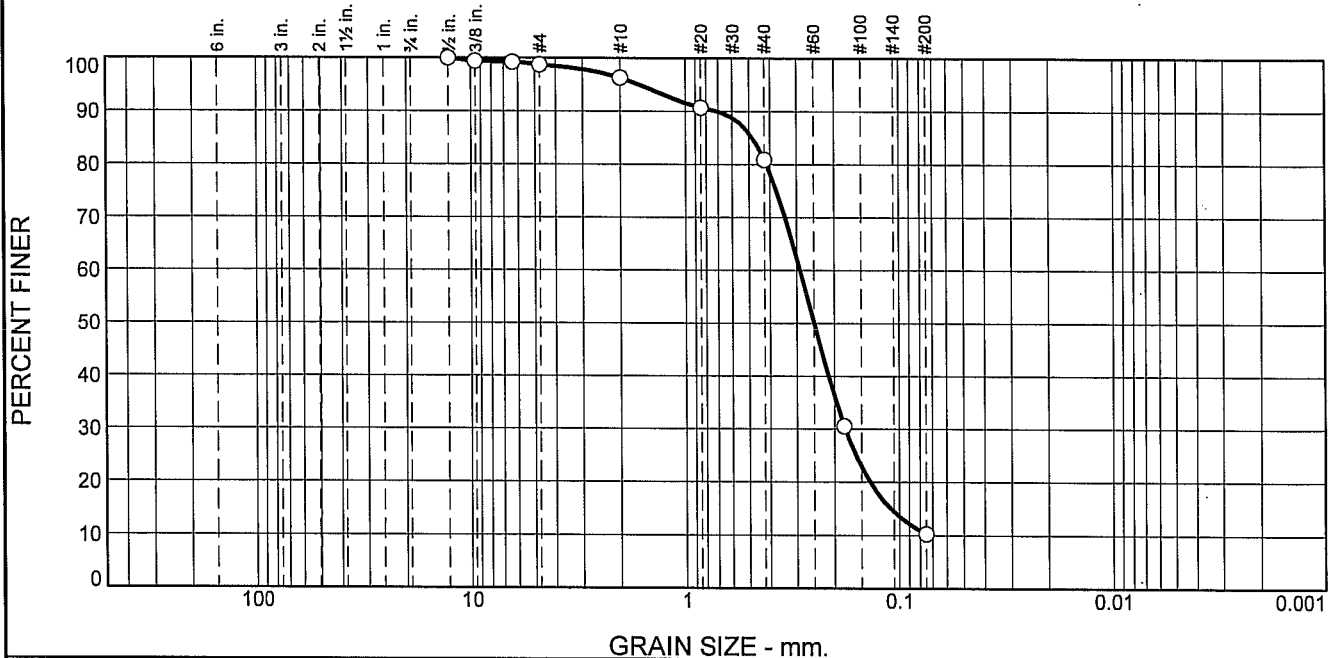
**Date:** 11/22/13

**Sample No:** CT3419S1

**Source of Sample:** Stark's Gravel Co.

**Location:** 295 Cty. Rt. 40, Constable, N.Y.

**Elev./Depth:** Stockpile



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	0	1	3	15	71	10	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	OUT OF SPEC. (X)
1/2"	100		
3/8"	99		
1/4"	99		
#4	99		
#10	96		
#20	91		
#40	81		
#80	31		
#200	10		

\* (no specification provided)

## Soil Description

Brown Sand

## Atterberg Limits

PL= --

LL= --

PI= --

## Coefficients

D<sub>85</sub>= 0.4828

D<sub>60</sub>= 0.2903

D<sub>50</sub>= 0.2494

D<sub>30</sub>= 0.1781

D<sub>15</sub>= 0.1094

D<sub>10</sub>=

C<sub>u</sub>=

C<sub>c</sub>=

## Classification

USCS=

AASHTO=

## Remarks

Sample delivered by client on 11/20/13.

ATLANTIC TESTING LABORATORIES, LIMITED

Figure

Reviewed by: Judge Ames

Date: 11/22/13

ATTACHMENT G

ATL REPORT # CT3419SL-02-11-13; TOPSOIL PH / ORGANIC CONTENT



# ATLANTIC TESTING LABORATORIES

November 25, 2013

OP-TECH Environmental Services  
63 Trade Road, Building #4  
Massena, New York 13662

Attn: Mr. Guy Griffin

Re: Soil Laboratory Testing  
PO# MNM-04484-GPG  
ATL Report No. CT3419SL-02-11-13

Ladies/Gentlemen:

On November 20, 2013, we received one sample of Topsoil material (ATL Sample No. CT3419S2) from the referenced project at our Canton, New York facility for testing. A pH of Soils in accordance with ASTM D 4972, and Moisture, Ash, and Organic Matter of Peat and Other Organic Soils in accordance with ASTM D 2974 were performed on this sample. The results follow:

**pH of SOILS**  
**ASTM D 4972**

ATL Sample #	pH	Project Specification	Test Method	Sieved Fraction	Soaking Procedure
CT3419S2	7.3	--	A	#10	Distilled Water

**PERCENT ORGANICS, ASH CONTENT, AND MOISTURE CONTENT**  
**ASTM D 2974**

ATL Sample #	Organics (%)	Project Specification	Oven Drying Temperature	Ash (%)	Project Specification	Moisture (%)	Test Method A	Furnace Temperature
CT3419S2	3.3	--	105 °C	96.7	--	2.3	Oven-Dried	440 °C

Please contact our office should you have any questions or if we may be of further service.

Sincerely,  
ATLANTIC TESTING LABORATORIES, Limited

  
Ryan C. Armstrong, EIT  
Laboratory Supervisor

RCA/rca

ATTACHMENT H

HYDRO-SEED MIXTURE DATA

*Merritt Seed Company*

STANLEY M. BOOTS, TURF CONSULTANT

SPECIALIZING IN GRASS SEED MIXTURES - FERTILIZERS - EROSION CONTROL PRODUCTS - PROFILE CONWED FIBERS DISTRIBUTOR - HYDROSEEDING MATERIALS

7880 GATES ROAD, BALDWINVILLE, NEW YORK 13027  
TELEPHONE: 315 638-0610 FAX 315 638-0071  
PROUDLY PROVIDING ALL YOUR SEEDING NEEDS SINCE 1958  
[www.merrittseed.com](http://www.merrittseed.com)

November 27, 2013

Green Machine Hydroseeding  
150 Irish Settlement Road  
Waddington, NY 13694

To whom it may concern:

This is to verify the seed mixture that Merritt Seed Company will supply to Green Machine Hydroseeding for use on the Op-Tech Malone Area December Project conforms to the following specifications:

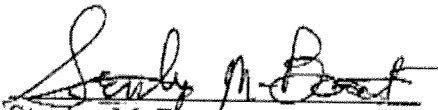
<u>Percent in Mix</u>	<u>Variety</u>	<u>Min Purity</u>	<u>Min Germ</u>
50.00%	Kentucky Bluegrass	85.00%	80%
30.00%	Creeping Red Fescue	98.00%	85%
10.00%	Perennial Ryegrass	98.00%	90%
10.00%	Red Top	98.00%	85%

The seed will be packaged in 50 pound sealed bags with labels bearing the Lot Number , the Job: Op-Tech Malone Area December Project, and the percentages of the mix for purity, germination, crop seed, weed seed content, and inert material.

The Seed Mixture shall be applied at the rate of 10 pounds per 1,000 square feet.

A fertilizer shall be applied at the rate of 300 pounds per acre.

I certify that the above information is correct to the best of my knowledge.

  
Stanley M. Boots  
Owner



7880 GATES ROAD, BALDWINVILLE, NEW YORK 13027

TELEPHONE: 315 638-0610 FAX 315 638-0071

PROUDLY PROVIDING ALL YOUR SEEDING NEEDS SINCE 1958

www.merrittseed.com

December 4, 2013

Green Machine Hydroseeding  
150 Irish Settlement Road  
Waddington, NY 13694

To whom it may concern:

This is to verify the fertilizer that Merritt Seed Company will supply to Green Machine Hydroseeding for use on the Op-Tec Malone Area December Project is as follows:

22-10-5 (33% Organic Bio Solids)

---

The manufacturer guarantees 22 pounds of available Nitrogen per CWT of which 35% of the total nitrogen is derived from Organic Bio-Solids furnishing a minimum of 3.5% WIN. The balance of the nitrogen is derived from methylene urea and/or water-soluble urea and/or nitrate and/or ammoniacal compounds.

The manufacturer guarantees 10 pounds of available P<sub>2</sub>O<sub>5</sub> per CWT, which is derived from Diammonium Phosphate and/or Monammonium Phosphate and/or Superphosphate.

The manufacturer guarantees 5 pounds of available K<sub>2</sub>O per CWT, which is derived from muriate of Potash.

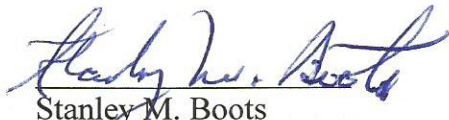
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The product is packaged by the manufacturer in 50-pound bags bearing the 22-10-5 marking. The recommended application rate is 300 pounds per acre.

To conform to the New York State Detergent and Nutrient Runoff Law that became effective on Jan 1, 2012 this fertilizer is for use only on areas where new lawn is being established and cannot be used within 20 feet of a water body or on paved surfaces.

For full information about this new law please visit <http://www.dec.ny.gov/chemical/67239.html>

I certify that the above information is correct to the best of my knowledge.

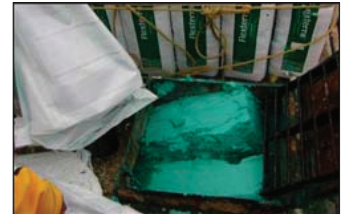


Stanley M. Boots  
Owner

## Conwed Fibers® Hydro Mulch® 2000 Wood Fiber with Tackifier

Provides protection on difficult sites and conditions!

- Conwed Fibers® Thermally Refined® wood fibers utilizes heat and pressure to break wood down into more fibrous material with greater surface area. This results in greater yield, higher water retention and increased productivity, which lowers project costs
- Hydro Mulch® 2000 has a premium organic guar tackifier that is pre-blended within the wood fiber, which ensures enhanced coverage
- Eliminates the extra step and mess of field mixing
- Guar gum tackifier enhances the chemical bond within the mulch matrix for better erosion control
- Disperses quickly in water, which allows for better blending with seed and fertilizer
- Ideal protection for critical slopes and sites where weather calls for an extra measure of protection
- Thermally Refined wood fibers holds up to 50% more water than competitors products – creating an excellent environment for seed germination
- Non-toxic and environmentally safe
- Maximum slope length of 30 feet
- Use approved mechanically agitated equipment for optimum pumping and application performance
- Hydro Mulch 2000 functional longevity is  $\leq 3$  months



### Product Composition:

Thermally Refined® Wood Fibers –  $85\% \pm 3\%$   
Guar Based Tackifier –  $3\% \pm 1\%$   
Moisture Content –  $12\% \pm 3\%$

(40) 50-lb bales per pallet

#### Slope Gradient/Condition

$\leq 4H:1V$   
 $> 4H:1V$  and  $\leq 3H:1V$   
 $> 3H:1V$  and  $\leq 2H:1V$

#### Rate

2000 lb/acre  
2500 lb/acre  
3000 lb/acre



PROFILE Products LLC · 750 Lake Cook Road · Suite 440 · Buffalo Grove, IL 60089

Technical Assistance: 800-508-8681

[www.profileproducts.com](http://www.profileproducts.com)

7880 GATES ROAD, BALDWINVILLE, NEW YORK 13027

TELEPHONE: 315 638-0610 FAX: 315 638-0071

PROUDLY PROVIDING ALL YOUR SEEDING NEEDS SINCE 1958

www.merrittseed.com

**To whom it may concern:****REF: CONWED FIBERS 2000 CERTIFICATION****TO: STATE OR FED AGENCY, PROJECT OWNER, ETC**

The manufacturer, PROFILE Products LLC, 750 Lake Cook Road, Suite 440, Buffalo Grove, IL 60089, CERTIFIES THAT CONWED FIBERS 2000 COMPLIES WITH THE FOLLOWING PRODUCT SPECIFICATIONS:

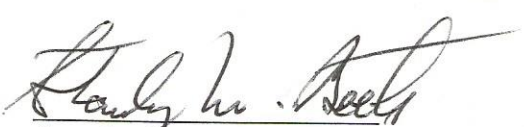
**PHYSICAL PROPERTIES**

MOISTURE CONTENT	12% $\pm$ 3%
THERMALLY REFINED WOOD FIBERS	85% $\pm$ 3%
GUAR BASED TACKIFIER	3.0% $\pm$ 1%
WATER HOLDING CAPACITY	1350% MIN

**PACKAGING****NET WEIGHT 50 LB BALE, 40 BALES PER PALLET**

The wood fiber is packaged in 50 pound units displaying the manufacturer's name and address, net weight, and customer service telephone.

I certify that the above information is correct to the best of my knowledge.

  
Stanley M. Boots  
Owner

# MATERIAL SAFETY DATA SHEET

## CONWED FIBERS<sup>®</sup> 2000

PROFILE PRODUCTS LLC  
750 LAKE COOK ROAD - SUITE 440  
BUFFALO GROVE, IL 60089

847-215-1144  
800-366-1180  
FAX 847-215-0577

HAZARDOUS COMPOUNDS	CAS NO	NIOSH	ACGIH	IDLH MG/CU METER
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POPLAR, PINE & OAK WOOD DUST				5 MG / CUBIC METER
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VEGETABLE HYDRO-COLLOID	9000-30-30			10 MG / CUBIC METER
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### HAZARDOUS RATINGS

HEALTH	2	FLAMMABILITY	1	REACTIVITY	0	DUST EXPLOSION	1
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### PHYSICAL / CHEMICAL CHARACTERISTICS

BOILING POINT	N/A	VAPOR PRESSURE	N/A
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SPECIFIC GRAVITY	1.0431	VAPOR DENSITY	N/A
------------------	--------	---------------	-----

MELTING POINT	N/A	EVAPORATIVE RATE BuAc=1	N/A
---------------	-----	-------------------------	-----

SOLUBILITY IN WATER	"SLIGHT TO INSOLUBLE"
---------------------	-----------------------

APPEARANCE AND ODOR	"DARK GREEN WITH WOOD ODOR"
---------------------	-----------------------------

FIRE AND EXPLOSION HAZARD DATA	N/A	"NOT APPLICABLE"
--------------------------------	-----	------------------

FLASH POINT	N/A	FLAMMABLE LIMITS	N/A	LEL	UEL
-------------	-----	------------------	-----	-----	-----

EXTINGUISHING MEDIA	"WATER"
---------------------	---------

FIRE FIGHTING PROCEDURES	"NORMAL – AVOID FUMES (IF ANY)"
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UNUSUAL FIRE AND EXPLOSION HAZARDS	"DUST MAY FORM AN EXPLOSIVE MIXTURE IN AIR"
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### REACTIVITY DATA

STABILITY	UNSTABLE	CONDITIONS TO AVOID	
STABLE		YES	"AVOID OXIDIZERS / REDUCERS"

INCOMPATIBLE MATERIALS	<u>"AVOID STRONG OXIDIZERS / REDUCERS"</u>
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# MATERIAL SAFETY DATA SHEET

## CONWED FIBERS<sup>®</sup> 2000

### PAGE 2

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS** **NONE**

HAZARDOUS POLYMERIZATION	MAY OCCUR? “WILL NOT OCCUR”	CONDITIONS TO AVOID “WILL NOT OCCUR”	NONE
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### HEALTH HAZARDS DATA

ROUTE OF ENTRY:      INHALATION? X      SKIN? X      INGESTION? X

HEALTH HAZARD:      AVOID INHALATION OF ANY DUST, AVOID SKIN CONTACT, PROTECT EYES, AVOID INGESTION AND PROLONGED EXPOSURE.

OBSERVE FOR DEVELOPMENT OF ALLERGENIC REACTIONS AND CALL A PHYSICIAN

<b>CARCINOGENICITY:</b>	<b>NPT?</b>	<b>IARC MONOGRAPHS?</b>	<b>OSHA REGULATED?</b>
	“NO”	“NO”	“NO”

SYMPTOMS OF EXPOSURE      IRRITATES SKIN, EYE IRRITATION; BURNING, TEARING, SWELLING.

### MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

ALLERGIES, DERMATITIS

**EMERGENCY FIRST AID PROCEDURES:**      USE WATER TO CLEANSE AREA, EYES FLUSH WITH WATER, CONTACT PHYSICIAN IF ALLERGIC REACTIONS OCCUR WITHIN 0-2 HOURS.

### PRECAUTIONS FOR SAFE HANDLING AND USE

GOGGLES FOR EYES, GLOVES FOR HANDS, WEAR CLOTHING TO PREVENT SKIN CONTACT

### STEPS TO BE TAKEN IN CASE OF SPILL

SPRINKLE SPILLAGE COMPOUND TO MINIMIZE DUST AND SWEEP UP SPILLED DEBRIS, ABSORB AND SWEEP UP / COLLECT; AVOID INHALATION AND / OR INGESTION OF ANY DUST.

WASTE DISPOSAL METHOD      NO SPECIAL DISPOSAL METHOD      STANDARD LANDFILL  
DISPOSAL ACCORDING TO LOCAL, STATE AND FEDERAL ENVIRONMENTAL REQUIREMENTS

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

“NO SPECIAL REQUIREMENTS EXCEPT FOR CONTAINER DAMAGE”.

1-1-01

ATTACHMENT I

OP-TECH RESUMES



**Guy P. Griffin**  
**Massena, N.Y.**  
**Asbestos Project Manager / Construction Engineer**



**Education/Training**

- State University of New York at Canton, 1982  
Major: A.A.S., Civil Engineering Technology
- 29 CFR 1910.120 Hazardous Waste Operations & Emergency Response  
40 Hour Initial Training Course / Annual Refresher
- 29 CFR 1910.120 Hazardous Waste Operations & Emergency Response  
8 Hour Supervisor Training Course
- NYSDOL Asbestos Certified Class G Supervisor & Class D Inspector
- OSHA 10 hr. Training Course-Construction Safety & Health
- OSHA Competent Person-Trenching
- ANSI N45.2.6 Level II Field Quality Control Inspector
- N.Y.S. Modern Double Lined Landfill Management
- Mold Management & Training Seminar
- 49 CFR 172.700 DOT Hazardous Materials Training
- Adult CPR and Red Cross Standard First Aid
- 129 CFR 1910.146 Confined Space Entry / Supervisor

**Relevant Scope of Work Areas**

- ✓ 22-years experience in the environmental/remediation field
- ✓ Emergency Spill Response Coordinator
- ✓ All Aspects of Construction Applications and Procedures
- ✓ Quality Control / Health & Safety
- ✓ Hazardous Waste Landfill O&M, Construction / Management
- ✓ Underground Tank Removal Procedures
- ✓ Governmental Processes / Procedures
- ✓ Asbestos Supervisor / Project Designer Certified

**Career Summary**

Thirty one years of professional management experience in the environmental, nuclear, facilities, and civil fields of the construction industry. Environmental experience includes nine years at the Aluminum Company of America in Massena, N.Y. in which seventeen hazardous waste sites were remediated by a variance of state of the art environmental technologies. Included in this project was the construction of TSCA/RCRA regulated multi-cell hazardous waste landfill of which Mr. Griffin was assigned as the landfill manager for the duration of the project.

**PROFESSIONAL EXPERIENCE**

OP-TECH Environmental Services, Inc.  
Massena, N.Y.  
Jan.-2004 to Present  
Project Manager

Currently providing management of all asbestos / lead abatement projects for the Massena branch office of OP-TECH. Additional responsibilities include supervision to all aspects of environmental service including soil excavation, industrial maintenance, building pre-demolition / demolition activities, underground storage tank removal, mold remediation, and associated projects. Generate project estimates, work plans, submittals, schedules and final project invoicing as well as office engineering and management.

Alcoa, Inc.-West Plant  
Massena, N.Y. 2012-Current

Management of all asbestos abatement activities related to incidental disturbance generated from major fire event that occurred at this aluminum manufacturing facility. Clean-up of friable asbestos debris from over a 300,000 sq. ft. footprint including machinery, production equipment, structural roof trusses, and all other impacted surfaces of the facility from floor to the ceiling fifty feet high. Managed 100-person crew working 24/7 for ten weeks in order to return production areas back to plant operations in fast track mode. Providing ongoing asbestos support during restoration of all areas impacted by the fire event. Value - \$ 4,000,000 +.

City of St. Albans  
St. Albans, Vt. 2011-Duration: 4-months

Completed abatement of asbestos materials and removal of universal wastes followed by demolition of the former 110,000 sq. ft. Solo/Fonda Container Facility. Specific management of PCB contaminated soil, floor slabs and building components was required to meet the Owner's Brownfield Management criteria for future property development. Value-\$ 700,000.

Brandenburg Industrial Services Co.  
Massena, N.Y. 2011-Duration: 4 months

Subcontracted to perform asbestos/PCB abatement during Phase I above ground demolition of former 700,000 sq. ft. General Motors manufacturing plant. Value-\$ 650,000.

## Guy P. Griffin



Corrosion Products, Inc. 2005 – Duration: 2 months.

Parrishville, N.Y. Abatement, collection, & disposal of lead based paint from 3,100 linear feet of seven-ft. diameter steel penstock pipe completed within full negative air containment utilizing abrasive blasting procedures. Value-\$ 310,000.

Niagara Mohawk 2005-Duration: 2 months.

Malone, N.Y. Onsite management for interim site improvements on former manufactured gas plant (MGP). Included preparation of submittal documentation, perimeter air monitoring following NYSDEC Community Air Monitoring Plan procedures, installation of temporary decontamination pad, demolition of underground structures, site grading, perimeter fence installation, transport and disposal of waste materials. Value-\$ 110,000.

Niagara Mohawk 2004 – Duration: 2 months.

Watertown, N.Y. Onsite management for removal and disposal of 11,000 tons of contaminated soil from former manufactured gas plant (MGP). Value-\$ 220,000.

### Quality Manager / H&S Manager

Lawman Heating & Cooling, Inc.  
Client: U.S. Army, Fort Drum, N.Y.  
Aug.-2002 to Jan.-2004

Provided quality control and health/safety management during extended service contract on a U.S. Army base. Projects covered all disciplines of construction on new and existing facilities. Generated project estimates, work plans, submittals, schedules, as well as office engineering and management.

### Quality Mgr., O&M Mgr., Landfill Mgr.

Washington Group Intl., Inc.  
Client: Alcoa, Inc., Massena, N.Y.  
March-1993 to Oct.-2001

Held multiple manager assignments for quality control, landfill operations, and operations & maintenance during multi-million dollar hazardous waste remediation project for a major industrial corporation. Provided civil, electrical, & mechanical inspections during remediation of seventeen hazardous waste sites. Projects included construction of a TASC/RECRA regulated multi-cell hazardous waste landfill, several raised shelf in-place containment cells, remediation of five lagoons totaling one hundred acres, and three HDPE-lined stormwater impoundments with pump stations. Remediation technology included polymer slurry walls, HDPE-liner encapsulation, groundwater interceptor trenching, leachate collection/transfer systems, soil/sludge solidification & reduction, trenchless piping, drum removal, and use of a multitude of geosynthetic materials in all phases of each project.

### Field Engineer

Century Contractors West, Inc.  
Client: Sithe Energies, Inc.  
Ogdensburg, N.Y.  
Nov.-1992 to March-1993

Assigned as field engineer for construction of 79-watt co-generation plant providing field coordination of superintendents, subcontractors, and craft personnel for mechanical and civil activities.

### Quality Engineer

Morrison Knudsen Corporation  
Client: Shell Oil Co., Denver, Co.  
June-1991 to Nov.-1992

Assigned as quality manager during interim hazardous waste remediation projects completed on U.S. Army base. Provided review of activities in civil, structural, mechanical, and electrical disciplines on multiple new and existing construction projects.

### Field Inspector

Heuber-Breuer-Viola Const. Mgrs.  
Client: NYS Dept. of Corrections  
Malone, N.Y.  
Nov.-1990 to May-1991

Provided mechanical, electrical and civil review as a quality control inspector during construction of new correctional facilities. Review of project plans, specifications, and submittals for installation verification and workmanship.

### Field Inspector

Balling Construction Management  
Client: NYS Dept. of Corrections  
Chateaugay, N.Y.  
June-1990 to Nov.-1990

Provided mechanical, electrical and civil review as a quality control inspector during construction of new correctional facilities. Review of project plans, specifications, and submittals for installation verification and workmanship.

### Quality / Systems Engineer

Morrison Knudsen Corporation  
Client: U.S. Army C.O.E., Fort Drum, NY  
April-1987 to June-1990

Multiple assignments as quality engineer and as systems engineer during major U.S. Army base expansion. Areas of concentration included mechanical, civil-heavy highway, fire protection, HVAC, and HVAC systems start up during construction of seventy plus barrack, support facilities, and infra-structure.



## Guy P. Griffin



Data Collection Technician  
General Electric Corporation  
Client: N.Y.P.A, Oswego, N.Y.  
Dec.-1986 to April-1987

Assigned to equipment management project at the James A. Fitzpatrick nuclear power facility. Compiled field data from mechanical, electrical and I&C systems to formulate accurate library of plant equipment and location.

Radiation Protection Technician  
Niagara Mohawk Power Corp.  
March-1986 to June-1986

Assigned as a radiation protection technician during scheduled maintenance shut down of the Nine-Mile Point Unit 1 nuclear power facility. Monitored facility access locations to verify entry/exit protocols, personnel exposure limits and equipment/personal decontamination.

Field Quality Control Inspector  
Stone & Webster Eng. Corp.  
Client: Niagara Mohawk Oswego, N.Y.  
June-1982 to March-1986

Assigned as a level II field quality control inspector during construction of a nuclear power plant in the mechanical and civil/structural disciplines. Completed daily inspection of in-process reinforcement cadwelds, studwelds, concrete placement, soil backfill, etc.

**References available upon request**

**Thomas A. Hunter**  
**Project Manager**

**Education/Training**

B.S. Civil and Environmental Engineering - Clarkson University, 1992  
A.A.S. Engineering Science - SUNY Canton, 1991  
A.A.S. Civil Engineering Technology - SUNY Canton 1982  
NYS Department of Labor - Asbestos Bulk Sampling Certified Nuclear Density Meter Operator (Troxler)  
OSHA 40-Hour Safety Certification for Hazardous Waste Operations  
OSHA 10-Hour Construction Industry Certification  
Certificate of Completion of Confined Space Entry Program  
NYSDEC Certified Storm Water Prevention Inspector

**Relevant Scope of Work Areas**

- ✓ NYS Registered Intern Engineer
- ✓ 25 Years Experience in Geotechnical Investigation & Analysis
- ✓ 25 Years Experience in Construction Inspection & QA/QC Implementation
- ✓ Detailed Experience in Heavy Civil Construction
- ✓ Well Developed knowledge & Skill in Environmental Protection (PCB's, Asbestos, Lead, Hydrocarbons, Storm water, Wetlands, etc.)

**Summary**

Mr. Hunter has over twenty seven years of experience in a broad spectrum of environmental and civil investigation projects for private, commercial, industrial, and institutional sites throughout New York State.

He has worked extensively on petroleum spill investigations, including soil and groundwater plume delineation; contaminated soil removal and treatment/disposal; groundwater monitoring; and in-situ soil; groundwater and river dredging remediation projects. He has served as a liaison between owners and regulatory agencies during environmental investigation and remediation projects, and Forensic Engineering at commercial, industrial, and institutional sites throughout New York State.

**Relevant Experience**

- Construction materials engineering and testing, including soil, concrete, bituminous materials, and associated report preparation.
- Direction and implementation of subsurface exploration programs and the design of foundation systems.
- Field evaluations of deep and shallow foundation systems.
- Design and evaluation of concrete mix proportions.
- Soil and groundwater sampling at industrial sites including large-scale hazardous waste projects.
- Supervising and managing subsurface investigation programs for construction projects and environmental remediation.
- Supervising air, sediment, and water sampling at hazardous remediation sites.
- Monitoring asbestos abatement projects and bulk sampling for mold, lead, asbestos, etc.
- Conducting Phase I, II, and III Environmental Site Assessments

**Thomas A. Hunter**  
**Project Manager**

**Project Experience**  
**Environmental Engineering:**

- Bechtel Environmental/Former Reynolds Metals Company - ALCOA East, Massena, NY- Responsible for the supervision of field staff for the land and the St. Lawrence River dredging PCB remediation projects.
- General Electric/Hudson River Project, Ft. Edwards, NY - Responsible for river sediment sampling project (PCB survey).
- Reynolds Metals Company, Massena, NY - Supervision of environmental field sampling and analysis, and inspection of daily construction activities including soil, concrete, and geomembrane testing.
- Alcoa, Massena, NY - Responsible for geotechnical sampling program during remediation projects.
- Holyoke Gas & Electric, Holyoke, Massachusetts, Former MGP site - Responsible for the supervision of a canal raceway capping project.
- St. Lawrence County, Industrial Development Agency, Former Village of Massena Public Works, Massena, NY - Responsible for Phase II subsurface investigations and oversight of environmental remediation.
- Town of DeKalb, NY - Responsible for monitoring Phase II environmental remediation program.
- State University of New York at Canton, Canton, NY - Responsible for campus-wide hazardous materials survey.
- General Motors Powertrain, Massena, NY - Responsible for plant-wide pre-demolition / asbestos survey.
- Canton-Potsdam Hospital, Potsdam, NY - Responsible for indoor air-quality monitoring and mold spore sampling activities for newly constructed and existing facilities.
- Sunmount Developmental Center, Norwood Community Residence, Norwood, NY - Responsible for indoor air quality monitoring and mold spore sampling activities.
- Brandenburg Industrial Service Co./General Motors Powertrain, Massena, NY – responsible for the field coordination with Client representatives and supervision of personnel on a large-scale pre-demolition asbestos abatement project.
- Salmon River Central School District - Remediation System Installation, Elementary School Crawl Space - Responsible for the project management of the field activities, including correspondence with School officials, the environmental consultant representative, the NYSDEC office and representatives and environmental sampling field personnel; oversight of purchasing equipment and materials, system installation and initial operation.
- NYSDEC Spill Site, Canton, NY - responsible for the oversight of a significant product spill involving a tractor trailer fuel tanker. These responsibilities included project coordination with the NYSDEC, scheduling, disposal profiling and reporting.

**Project Experience**  
**Construction Materials Engineering:**

- Fort Drum Infrastructure Projects, Ft. Drum, NY - Responsible for evaluation of daily construction activities, including soil, concrete, and masonry testing and inspection.
- Reynolds metals Co., Massena, NY - Responsible for evaluation of prestressed concrete pot room floor slabs.
- Tupper Lake Central Schools, Tupper Lake, NY - Responsible for foundation subgrade inspection.

**Thomas A. Hunter**  
**Project Manager**

- Woodbury Toll Plaza - Interstate 87, Woodbury, NY - Responsible for coordination and supervision of daily subsurface investigation program.
- Alice Hyde Medical Center, Malone, NY - Responsible for quality control testing of soil, concrete, and structural steel during construction of an addition to the medical center.
- Sunmount Developmental Center, Tupper Lake, NY - Responsible for quality control testing of soil, concrete, and structural steel during construction of an addition to the medical center.
- Clarkson University, Potsdam, NY - Responsible for quality control testing of soil and concrete along with foundation subgrade inspection during new building erection projects.
- ALCOA, Zurn-NEPCO Cogeneration Facility, Massena, NY - Responsible for driven pile inspection.
- Iroquois Gas Transmission System, Croghan, NY - Responsible for geotechnical investigation program and compressor station foundation design.
- Noble Environmental Power, Clinton and Ellenburg Wind Parks, Clinton and Ellenburg, NY - Responsible for turbine foundation base sub-grade inspection and concrete foundation reinforcement steel evaluation.
- Noble Environmental Power, Chateaugay and Bellmont Wind Parks, Chateaugay and Bellmont, NY - Responsible for subsurface soil evaluation.

**Project Experience**  
**Forensic Engineering:**

- New Hampshire Department of Transportation, Bridge Deck Corrosion Evaluation – Supervised field sampling and testing, evaluation of results and reporting on a statewide contract.
- State University of New York at Potsdam, Bowman Hall, Potsdam, NY - Performed an illumination survey of an outdoor parking lot.
- Edward-Knox Central School, Edwards, NY - Responsible for monitoring the construction and placement of drilled mini-piles.

**Employment History**

OP-TECH Environmental Service, Inc. 2010 - Present

2009-2010 Project Engineer, Blue Mountain Engineering, PLLC

1992-2009 Project Manager, Atlantic Testing Laboratories, LTD

1986-1992 Engineering Technician/Assistant Project Manager, Atlantic Testing Laboratories, LTD

**Robert Sanderson**  
**Project Supervisor / Environmental Technician**

**Education/Training**

BS in Environmental Science/ Minor Chemistry  
from SUNY Plattsburgh – May 2008  
BA in Sociology / Minor in Criminal Justice from  
Canisius College – May 1995  
OSHA 40-Hour HAZWOPER Initial Course  
OSHA 8-Hour HAZWOPER Annual Refresher  
DOT Hazardous Materials Training 126F  
Confined Space Entry / Supervisor  
OSHA 10-Hour Construction Safety  
CPR & First Aid Training  
E-Rail Safety Training  
NYS Erosion Control Inspector

**Relevant Scope of Work Areas**

5 Years Environmental & Industrial  
Experience  
Proficient with DOH Sampling Procedures  
Proficient with Emergency Spill Responses  
& NYSDEC Cleanup Procedures  
Residential Water Sampling Procedures &  
Standards  
Petroleum Tank Removal Procedures  
Waste Packaging, Transportation &  
Disposal Protocols  
Geoprobe Subsurface Investigations/  
Reporting  
NYS Petroleum Bulk Storage (PBS) Tank  
Procedures

**Summary**

Robert Sanderson joined OP-TECH in May 2008. Mr. Sanderson has worked predominately in supervisory and environmental scientist/technician roles. Rob brings strong leadership qualities and an excellent work ethic to the OP-TECH team. Currently Rob performs and manages the majority of remedial sites O&M and sampling events associated with OP-TECH's Massena Branch. Rob has also been an emergency response team leader for over 4 years and has responded to and managed numerous emergency responses and spills.

**Relevant Experience**

Project Manager	Perform project management duties for numerous emergency responses. Responsibilities include: initial response, field management, liaison between project entities, waste management, procurement of vendors/subcontractors, invoicing, reporting, etc.
Project Supervisor	Successfully supervised field crews on numerous petroleum spills in Jefferson, Lewis, St. Lawrence, Clinton, Essex, & Franklin counties in the State of New York. Collected samples, profiled waste & prepared spill cleanup reports. Have supervised numerous tank cleaning and industrial cleaning projects in both public / private sectors.
Environmental Technician	Performed Environmental Technician duties on the removal of multiple petroleum underground storage tanks and spills. Assisted clients with PBS registrations and closures. Inert tank for cleaning and provide continuous confined space supervision and air monitoring. Proficient with field monitoring techniques with photo-ionization detector (PID). Experienced with NYSDOH sampling protocols for commercial and residential sites. Knowledgeable NYSDEC regulations and protocols..

Sampling Technician	Performed numerous NYSDEC & Private residential/commercial sampling events per NYSDOH protocol. Including all necessary data collection, tabulation & reporting.
Environmental Scientist	Performed Phase I & II ESA's and subsurface investigations on several commercial and industrial sites. Tasks include Geoprobe investigations, field soil screening and classification, monitoring well installation & development, in-situ remediation, preparation of subsurface investigation reports.

### **Relevant Projects**

Environmental Technician Former Diamond International Ogdensburg, NY	Collected numerous sediment samples of associated lagoon for hazardous and waste characterization. Created the sample analysis data reports to support the remedial plan for the abandoned manufacturing facility. Later served as the project's environmental technician/supervisor during the remedial phase which included: evacuation, dewatering & disposal of impacted sludge; cleaned & demolished two large concrete clarifiers and numerous vaults and chests; treated 1.5 million gallons of waste water using LGAC; installed steel sheet piling around the lagoon before solidifying lagoon sediments in-place utilizing Portland cement.
Environmental Technician NYSDEC Region 6 Hamlet of Redwood, NY	Performed monthly sampling of over 100 activated carbon whole-house residential filtration systems. Tabulated sampling data and submitted quarterly and annual sampling reports to the NYSDEC. Performed scheduled and emergency maintenance of the filtration systems. Performed quarterly carbon filter change-outs/rotations

### **Employment History**

2008- Present – OP-TECH Environmental Services, Inc.  
2002-2008 – Foreign Exchange Trader  
1999-2002 - Project Manager & Recruiter for Communication & Commerce in Indianapolis, In & Salt Lake City, UT  
1996-1998 – Branch Manager for Avis Rental Car in Orlando, FL