



***PRODUCT RECOVERY MANAGEMENT, INC.***

Corporate Headquarters

200 20th Street

Butner, NC 27509

1-888-TREAT-IT (873-2848)

**STATEMENT OF QUALIFICATIONS**

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## Introduction



Butner, North Carolina Facility includes 15 ton cranes with an 80' span and a 162' runway with a new building expansion in 2020, including a 40 ton indoor crane expansion.



PRM's dedication to environmental protection shown in its array of 1,000 solar panels



PRM's warehouse with adequate room for distribution of products

## Mission Statement

Product Recovery Management, Inc. represents **Absolute Quality, Genuine Service, and Safety by Design** in each of its products, people, systems, and services.

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Product Recovery Management, Inc. (PRM) is an Original Equipment Manufacturer (OEM) that manufactures environmental remediation equipment, complete system packages, and provides installation/field services. What started as an electrical contracting business in 1976, PRM has merged into a well established environmental remediation and landfill gas company with over 40 years of history and experience. Founded in 1990 by Bob Phillips with the help of his sons Mel and Brian, PRM is entering its 31st year of quality assurance in the environmental remediation industry. PRM has expanded its installation and maintenance services to nearly every U.S state, as well as many foreign countries, including Canada, China, Ecuador, India, and Saudi Arabia.

Since its inception, PRM has expanded its product line to broaden its scope of capabilities in the environmental remediation industry. A few additional products and resources include:

**SPARTOX** - Specializing in Ozone and Advanced Oxidation Process (AOP) Systems. PRM bought the SpartOx brand in 2019.

**BagFilters.com** - Offering the highest quality bag filtration products in the industry.

**PD-Blowers.com** - Find a wide variety of top quality blowers from some of the most trusted brands.

**MagStrainer.com** - PRM secured this brand in 2020, and will release new products that are related to Advanced Magnetic Filtration Technologies by Winter of 2020.

**Booster Pumps**- Specifically designed for a nationally recognized brand with over 3500 store installations in the US.

**The PRM Online Store ([shop.prmfiltration.com](http://shop.prmfiltration.com))** - Offering thousands of SKUs in categories such as Filtration, Instrumentation, Plumbing, Electrical, Power Equipment, pre-manufactured systems, PPE, and more.

PRM is also one of the nation's only equipment integrators who are Third Party Certified to manufacture treatment systems and equipment to UL and NFPA standards. Keeping the promise of safety and security, PRM has a great team of 40-hour OSHA certified field personnel that will design and install your remedial system based on your project needs. Our team of qualified project managers, engineers, and technicians can perform regular maintenance and/or troubleshoot and repair any possible onsite issues.



SHOP.[PRMFiltration.com](http://PRMFiltration.com)



PRM keeps in stock a large variety of equipment, instrumentation, and components for all kinds of filtration needs. If interested in getting filtration products, pipe, hose, and fittings, please visit our online shopping experience at [shop.prmfiltration.com](http://shop.prmfiltration.com)!

## Services



## Turnkey Remediation Systems



- Soil Vapor Extraction and Air Sparge
- Dual Phase and Multi-Phase Systems
- Groundwater Pump & Treat
- Portable Pilot Units
- Vapor Mitigation and Sub-Slab Depressurization
- Controls and SCADA

## Landfill Systems



- Landfill gas extraction packages
- Flare packages
- Blower Packages
- Gas Flow Instrumentation
- Landfill gas filtration
- Landfill pumps - SRX Pneumatic / Electric
- UL Controls with wireless telemetry

## Environmental Equipment



- Air strippers
- Oil water separators
- Vapor Phase and Liquid Phase Carbon Systems
- Thermal and Electric Oxidizers
- Accessory Filtration

## SPARTOX™ by PRM Filtration

PRM can provide turnkey Ozone Remediation Systems implementing ozone, advanced oxidation process (AOP), and other technologies to most effectively treat your specific project requirements. We are a manufacturing leader in groundwater remediation and vapor extraction systems and have over 30 years of experience as a system integrator of remediation systems.



Ozone oxidation is one of the most effective water treatment processes, and is very environmentally friendly since it is produced onsite from oxygen and reverts back to oxygen after reacting with contaminants.





## Field Services and Installation Services

PRM has expert field crew and master technicians working on projects across the globe utilizing many different technologies and configurations. We offer a wide range of installation services for electrical, environmental, and industrial projects.

- OSHA 40 Hour HAZWOPER certified employees 1910.120
- OSHA 8 Hour HAZWOPER Supervisor training
- CPR/First Aid/AED/Bloodborne Pathogens training
- NC Wastewater Physical/Chemical Grade I Operator license
- Licensed for required trades
- Properly Insured and Bondable
- Safety oriented operations
- JSA available per task per project on request
- Proper tools and equipment for the task
- Proper field instrumentation



PRM provides complete environmental remediation field services, including:

- Pilot Testing/Reporting
- M/DPE 8/12/24HR / 3 day / 7 day / 30 day
- Tests/Remediation
- Services including full groundwater treatment with permitting O&M Services
- System Installation Services
- Emergency Repair Services

## PRM Control Panels, SCADA and Telemetry



PRM Control Panels are built in-house, certified by a third party Nationally Recognized Testing Laboratory, and serviced by top level Control Shop Support. PRM is one of the nation's few equipment integrators that is able to provide UL Certified control panels as well as Third Party Certified systems recognized in both the US and Canada.

PRM's certified control panels undergo rigorous testing to ensure safety and integrity—which is paramount in today's climate to reduce risk. PRM systems go through stringent procedures which exceed National Research Training Laboratory (NRTL) specifications and standards. Simply put: PRM systems are safer to operate and maintain.

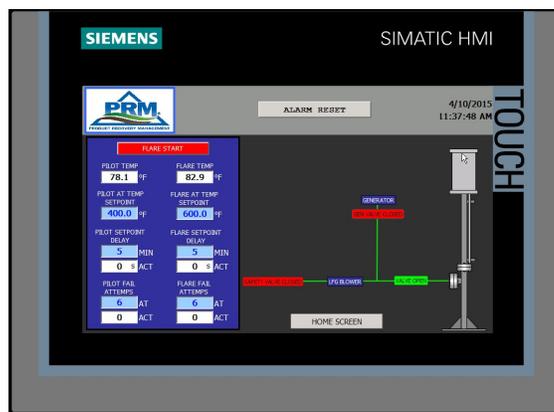
### SCADA—Your Window to Operations:

Supervisory Control and Data Acquisition (SCADA) allows you to control your system from a single touch screen mounted on the control panel – or from a remote location via PC or handheld device if properly configured with one of our wireless telemetry packages.

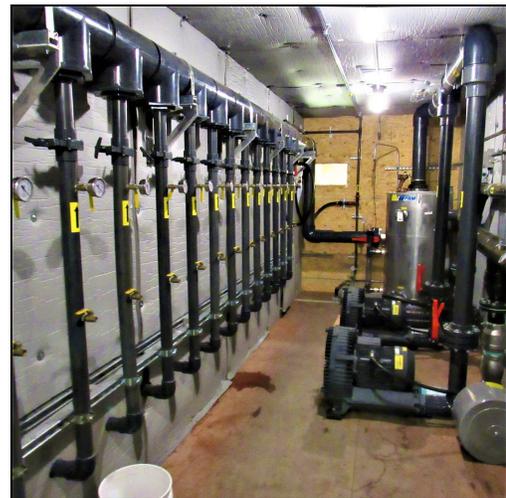
SCADA systems seamlessly integrates your system's controls and operational data in one place making it easier to operate and maintain. SCADA systems are typically integrated in every system we build – or it can easily be integrated into your existing system as an upgrade.

PRM control system offerings:

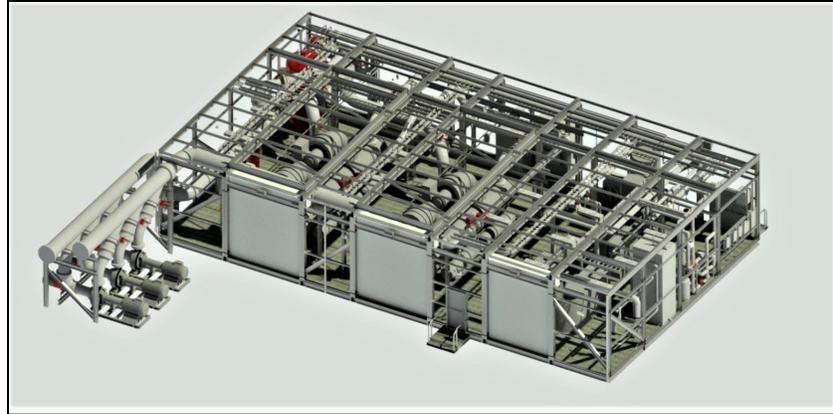
- Third Party Certified UL 508A and 698A Control Panels
- Full SCADA Packages
- Telemetry Packages – Wired and Wireless
- PRM High Speed Wireless Service for Connectivity
- Control Design and Full CAD Capabilities
- Field Diagnosis
- Retrofitting and upgrades
- Code Compliance Audits
- Control Panel Components and Surge Protection



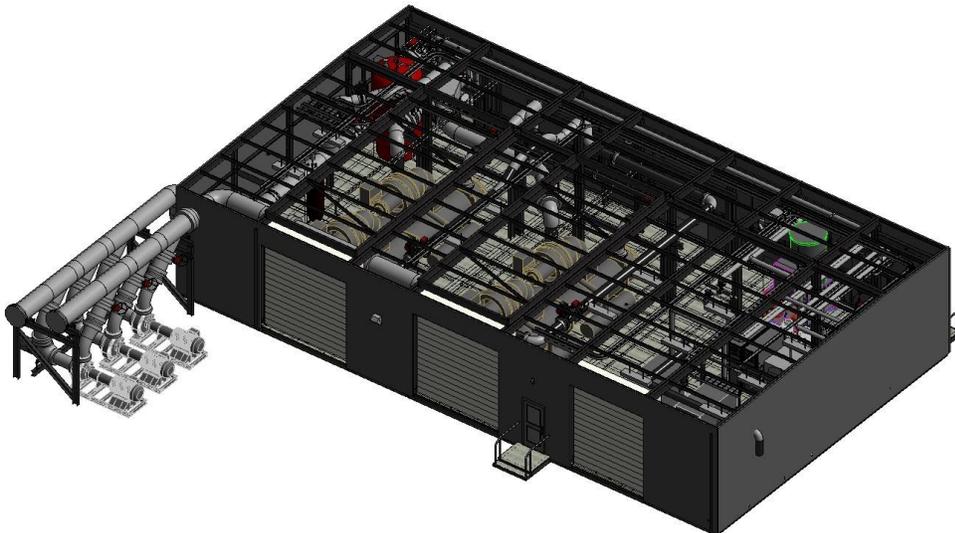
## Project Experience



Pre-manufactured insulated modular building to meet local Code Standards consisting of 7 modules, which when assembled constitute a 46' x 80' building which will act as a Central Utility Building for an industrial site. The system includes dual 300 Hp water chillers, dual 100



Hp air compressors, a glycol chilling system, and a tepid water generation system for eye-wash/safety shower appliances throughout the facility. The system is comprehensive, including a smoke and fire alarm system, HVAC, emergency ventilation, lighting, doors, safety components, and electrical all pre-wired. The system is completely pre-manufactured and assembled and tested at our facility in Butner, NC, then disassembled and transported to the site where it is re-assembled, retested, certified, and commissioned.



**Contract Price: \$6M**

## Wood Buffalo, Alberta, Canada



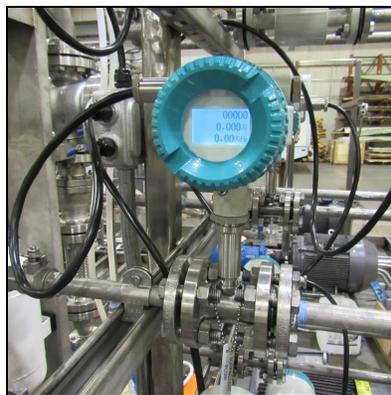
PRM provided an Aerobic Landfill Bioreactor including full scale SCADA and flare. The system was housed in four custom fabricated Connex containers. It included quad 150 HP air injection blowers and dual 40 HP gas extraction blowers. The 8000 SCFM candlestick flare was designed and manufactured by PRM. Full SCADA monitors over 1000 well points for temperature over a wireless mesh network. At the time of implementation (2014), it was one of the largest landfill carbon reduction projects in the world.



**Contract Price: \$2.3M**



PRM constructed multiple custom stainless steel washing skids. Each was built on an open 304SS skid. The systems were integrated into a Siemens HMI PLC control platform to allow the operator complete control of the washing cycles. All components on each skid were either 304SS or 316SS and wired for Class 1 Div 2 hazardous locations.



**Contract Price: \$1.5M**

## Corpus Christi, TX



This methane extraction and condensate removal system consisted of a 60 HP gas extraction blower and 3500 SCFM candlestick flare that was designed and manufactured by PRM. Includes a full SCADA control panel package with integrated PLC. The system provides gas to a 6MW generator plant using 24 packages engines. PRM provided system manufacturing, integration, installation, and startup. In 2017 the system was upgraded to include two more 60HP blowers to increase production for the client.

**Contract Price: \$300K**



This SVE/AS system was housed in two 8' x 40' Connex containers. One enclosure housed the SVE systems and three Rotary claw compressors. This enclosure was rated for a Class I Div 2 location. The second enclosure housed two Rotary screw compressors and air dryers. This enclosure included a closed off room that contained the main breaker panel and controls.

**Contract Price: \$422K**



PRM constructed a multi-faceted, comprehensive Groundwater Treatment system. This system is equipped with two inlets, a Gravity Fed inlet and a Vault Pump inlet, dual AMT 3152-98 OWS (Oil Water Separator) Pumps, and two Air Strippers (AST) . Each AST unit has an Ametek EN 909 Series AST Blower. The system is equipped with access ports above the OWS Tank and both Carbon Vessels.

**Contract Price: \$357K**

## Indianapolis, IN



This multi-phase extraction and air sparging system was packaged in an 8' x 26' dual axle cargo trailer. The system included a MS-400 moisture separator and 200 gallon water storage tank. A PRM model STS-334 sliding tray air stripper was situated in the rear of the trailer. The system also included two PRM model HP-500 carbon vessels. The PLC was mounted to the exterior of the trailer to allow more room in the interior.

**Contract Price: \$200K**



Prm provided a landfill extraction blower system upgrade per Clients RFQ and project manual. Two additional LFG blowers were added to the existing skid unit onsite. PRM provided Variable Frequency Drives (VFD) for each new blower motor along with a new control panel for complete system operations.

Additional equipment included an Oxygen sensor, miscellaneous piping/valves and a new condensate tank level transmitter. PRM poured two concrete pads and provided two carport enclosures, one for storage and one for housing a new provided compressor.

All wiring onsite was done in accordance with the latest version of the National Electric Code (NEC).

**Contract Price: \$245K**

## British Columbia, Canada



This complete landfill gas extraction skid included an enclosed fare system. The system sat on an 8' x 20' channel frame skid. A PRM model MS-400 carbon steel moisture separator tank was used. The 40' tall enclosed landfill gas flare was designed and manufactured by PRM to meet regulatory and landfill gas code requirements. The system controls were specifically designed for future integration with other control systems onsite. All gas is directed through three large generator packages for >5MW of system output to the grid, and gas is treated through a Siloxane/H<sub>2</sub>S gas control system.

**Contract Price: \$494K**

## Fayetteville, NC



PRM provided a fully integrated and packaged Reverse Osmosis Treatment system. The dual side-by-side Connex container system included Tandem 8'x20' HC Single Trip containers modified to allow for a single 16'x20 site structure for housing the equipment, 2 AMT Model 315B-98 SS pumps, 480V 3phase 3HP TEFC Motors for premium efficiency, VFD controls with PID loop from a Pressure transmitter, and a 24,000Btu HVAC Minisplit system for interior heating and cooling/dehumidification.

**Contract Price: \$147K**

## Key Personnel





Mel Phillips is the current President of PRM and has been with the company for over 30 years. His experience includes design of complete environmental remediation systems, supervision of the construction of systems, supervision of system installations, and coordination of UST removals / abandonments. He played an instrumental role in the development of “Gator” bio-remediation sales on the east coast.

## **Mel Phillips President**

### **Education:**

Electrical Trade  
Technical College

### **Professional Registration / Training:**

Licensed Electrician  
OSHA 1910.120 Hazwoper  
NFPA 472 training

Brian Phillips is the current Vice President of PRM and has been with the company for over 29 years. He is the primary responsible party for all activities within our manufacturing facility. He is also involved in all aspects of equipment construction. Mr. Phillips is responsible for ensuring that equipment is being built as the customer needs, is safe for operation, and works to its fullest potential. As Vice President, he supervises all electrical work conducted on all systems in the shop, oversees Health and Safety, and oversees QA/QC. Prior to becoming Vice President, Mr. Phillips was a project superintendent for 16 years at PRM.



## **Brian Phillips Vice President**

### **Professional Registration / Training**

NC Unlimited General Contractors License  
OSHA 1910.120 Hazwoper  
NFPA 472 Training



Chris Phillips has been with PRM for 6 years. His primary duties consist of working on submittal packages and drawings. This involves customizing design details with the client and our estimator. Mr. Phillips is responsible for troubleshooting active systems, checking on the progress of current builds, and reporting to the client throughout the build process. He designs a significant amount of PRM equipment for fabrication. Mr. Phillips is a licensed Professional Engineer in the state of North Carolina.

## **Chris Phillips** **Design/Submittals**

### **Education:**

B.Sc., Engineering  
East Carolina University

### **Professional Registration / Training:**

NC Professional Engineer, License # 046803

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Mr. Browne has been with PRM for over 20 years and is currently a Senior Engineer. He supervises construction, installation, sub-contractors, startup, and troubleshooting of remedial systems. Mr. Browne prepares competitive bids for projects, leads remedial system design, specification, and material selection. He is experienced with all construction equipment and machinery associated with remedial system installations and is versed in general construction, framing, plumbing, electrical, concrete, and landscape trades. Prior to coming to PRM, Mr. Browne was a Staff Engineer at EMS Environmental for 5 years.



## **Dana Browne** **Senior Engineer**

### **Education:**

B.Sc, Mechanical Engineering  
Virginia Polytechnic Institute

### **Professional Registration/Training:**

OSHA 1910.120 Hazwoper



Mr. Kemp has 10 years of experience in the environmental field and has been with PRM for 7 years. His responsibilities include preparing field tasks for technicians prior to mobilization to the field, reviewing RFQ's, and preparing bid documents and quotes. Mr. Kemp is also our primary contact for assisting clients with site requirements and troubleshooting. He manages the majority of our fieldwork from start to finish. Mr. Kemp is also the Health and Safety Manager, which includes conducting weekly and monthly internal safety meetings.

## **Luke Kemp** **Project Manager & Field Services**

### **Education:**

B.Sc., Wildlife and Fisheries  
Pennsylvania State University

### **Professional Registration / Training:**

40 Hour Hazwoper Refresher Certification  
Hazwoper Site Supervisor 38 Hour Wetland  
Delineation

Mr. Stahl has been with PRM for 7 years. He is a licensed master electrician with expertise in larger scale power distribution systems, temperature control, solar system installation, and process control in commercial, residential, and industrial settings. Mr. Stahl's responsibilities include ensuring all service requests are taken care of in a timely manner, overseeing remediation and landfill gas installs, and troubleshooting large scale control panels. He has significant experience in construction and maintenance of landfill gas extraction systems with an understanding of CAR standards. Mr. Stahl is the lead service technician for the southeast region.



## **Justin Stahl** **Field Services**

### **Education:**

Electrical Apprenticeship  
Tri City JATC, Albany, NY

### **Professional Registration / Training:**

Licensed Master Electrician  
40 Hour Hazwoper  
HILTI Trained  
JLG Trained



Mr. McAdory is one of our newest employees and has been an instrumental part of the design process. Using his strong background in engineering, Mr. McAdory's main duties include measuring and implementing specifications of our systems with the help of our CAD software. He has over 10 years of combined experience in project management and industrial design. Mr. McAdory has worked on a significant number of systems, and serves as an integral part of PRM.

## **Maurice McAdory** **CAD and Design**

### **Education:**

B.Sc, Mechanical Engineering  
A.Sc, Architectural Drafting

### **Professional Registration/ Training:**

Licensed in Architectural Drafting

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Mr. Hafenmaier has been with PRM for 6 years. Before coming to PRM, Mr. Hafenmaier served as an Environmental consultant for 22 years. His main duties include assisting installation services by modifying systems to meet specifications with help from our CAD system.

Equipped with his extensive knowledge of environmental remediation, he played an instrumental role in the adoption of our Spartox Ozone systems. Mr. Hafenmaier is a licensed Professional Engineer in the State of North Carolina.



## **Mark Hafenmaier** **Staff Engineer**

### **Education:**

B.Sc, Civil Engineering

### **Professional Registration/ Training:**

C Professional Engineer, License #022633N