



System Audit Program

Achieving Consistent Performance of Biofilter Systems

Over time, the performance and efficiency of biofilter systems tend to decrease. Issues such as maintenance, system performance, and operational understanding eventually come to the forefront and require attention. Now we offer you a solution to help maximize the efficiency of your biofilter system and achieve consistent performance. With our Bio-Reaction System Audit Program, we provide a cost effective way to keep your system running at its best. By performing a baseline audit followed by regularly scheduled visits, you'll appreciate the vast improvements in your system's performance.

Getting Started

Our technical service professionals evaluate your biofilter system's current performance and provide you with a detailed, written report documenting their findings. The baseline audit helps you optimize current system performance and identify areas where further system optimization can occur.

We define a tailored solution that assists you with achieving operational excellence and consistent performance for years to come.

Take advantage of the many benefits of a Bio-Reaction System Audit Program:

- ✓ Base lining your existing system
- ✓ Formal documentation with detailed results of the initial audit
- ✓ Detailed listing of corrective actions
- ✓ Improved system reliability and overall performance
- ✓ Scheduled audits on a routine basis to ensure ongoing consistent performance

Program Details

1. Bio-Reaction will perform an audit of your installed system twice each year over a two year period. Each system audit program is based on a two year signed agreement, for a total of four audits. At the end of the two year period, a new agreement will be presented for acceptance and continuation of the system audit program at your facility.
2. Audits are conducted every six months by trained Bio-Reaction professional staff. Depending on the system configuration and condition, Bio-Reaction staff will be on site performing the system audit in two days or less.
3. Your system will be up and running during the majority of the audit period, only requiring a short downtime period for inspection. We will schedule that downtime in advance at your convenience.

System Audit Details

Each audit will include, but not be limited to, the parameters outlined below.

1. Complete system audit and review of operating parameters:

Test	Where
pH	Sump
Conductivity	Sump
Temperature	Beds, Inlet, Outlet, sump
Pressure Drop	All beds
Water Flow	Recirculation and Irrigation Systems

2. Mechanical inspection of the system:
 - Pumps, fans, nozzles
 - Ducts, Stacks, Isolation Dampers/Valves
 - Cracks, water leaks, air leaks
3. Control system inspection:
 - Review historical data
 - Alarm Events
 - Out of Specification notations
4. Review of most recent air and water quality data:
 1. Bio-Matrix Media Testing
 - Moisture content
 - Biological activity
 2. Sump Water Analysis
 - Biological activity
 - Nutrient analysis
 3. Bio Matrix Media Analysis
 - Biological activity
 - Nutrient analysis
5. Formal Audit Document:
 1. System Audit Data
 2. Discrepancies
 3. Recommendations
6. On-going Technical Support – via telephone 24/7.

Program fees and terms

1. For the two year system audit program agreement, the fee schedule will be established based on the overall scope of the program.
2. Invoicing will be done quarterly, for a total of eight invoices, commencing on the date the agreement is signed.
3. Payment terms are net 15 days from receipt of invoice.