



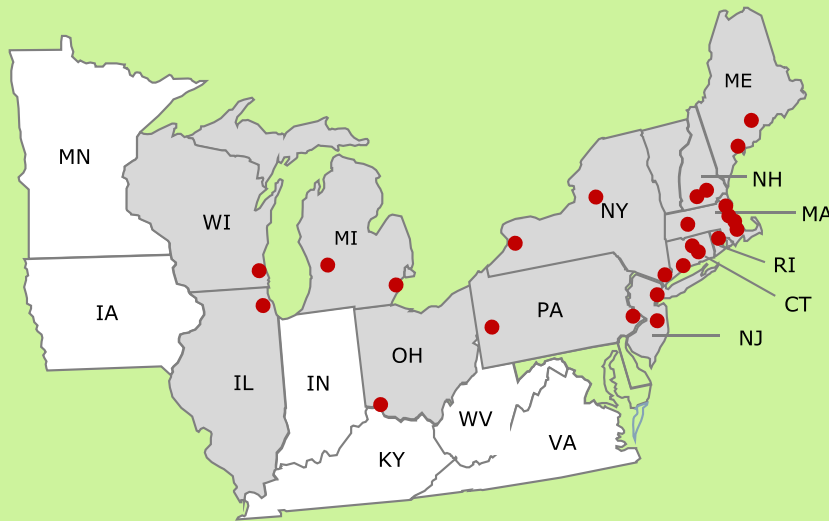
**SAFETY AND BUSINESS-PERFORMANCE
IMPROVEMENT
TESTIMONIALS AND LESSONS LEARNED
FROM MEMBER FIRMS.
A LARGER-MEDIUM SIZE FIRM PERSPECTIVE**

**GZA GEOENVIRONMENTAL, INC.
NORWOOD, MASSACHUSETTS**

INTRODUCTION

**Kenneth R. Johnston, Chief Administrative Officer, Principal,
Executive team member**

GZA GeoEnvironmental Founded in 1964, HQ. Norwood, Ma.



| Offices | 26 Offices, 11 States |
|--------------|--------------------------|
| Employees | 520 |
| Office | 115 |
| Office/Field | 310 |
| Field | 95 |

Multi-disciplinary consulting firm
Ecological | Civil | Geotechnical
Water | Construction Management | Environmental



Serving the Public, Power, Real Estate, A/E, Institutional, Industrial, Infrastructure, Contractor, and Oil & Gas Client Sectors:

INTRODUCTION- CONTINUED



GZA Laboratories

Aquatic Toxicity Lab

Geotechnical Lab 1969-2011

Environmental Lab 1981-2011



GZA FLEET

43 trucks and vans

10 registered trailers

1 boat/3 skiffs

7 rig drilling company 1984-2005



GZA safety personnel

2 full-time CIH/CSP managing H&S

Each branch office has H&S Coordinator

5 CIHs and 5 CSPs

EARLY PRACTICE



1986
Two
Superfund
jobs



1988
Focus on
HAZWOPER
1990
H&S records,
Create
database



1992
Dealt with
tragic
accident



1997
Policy
development
and little
support



2000
No
execution
and
pressured to
be billable



2011
New ideas
but minimal
support

2013 CHANGE IN PRACTICE

The Awakening of Management



“It took us a while, but we finally got it right. One of the best hires of the fiscal year.”

Bill Hodge, CEO

CURRENT PRACTICE

After One Year...



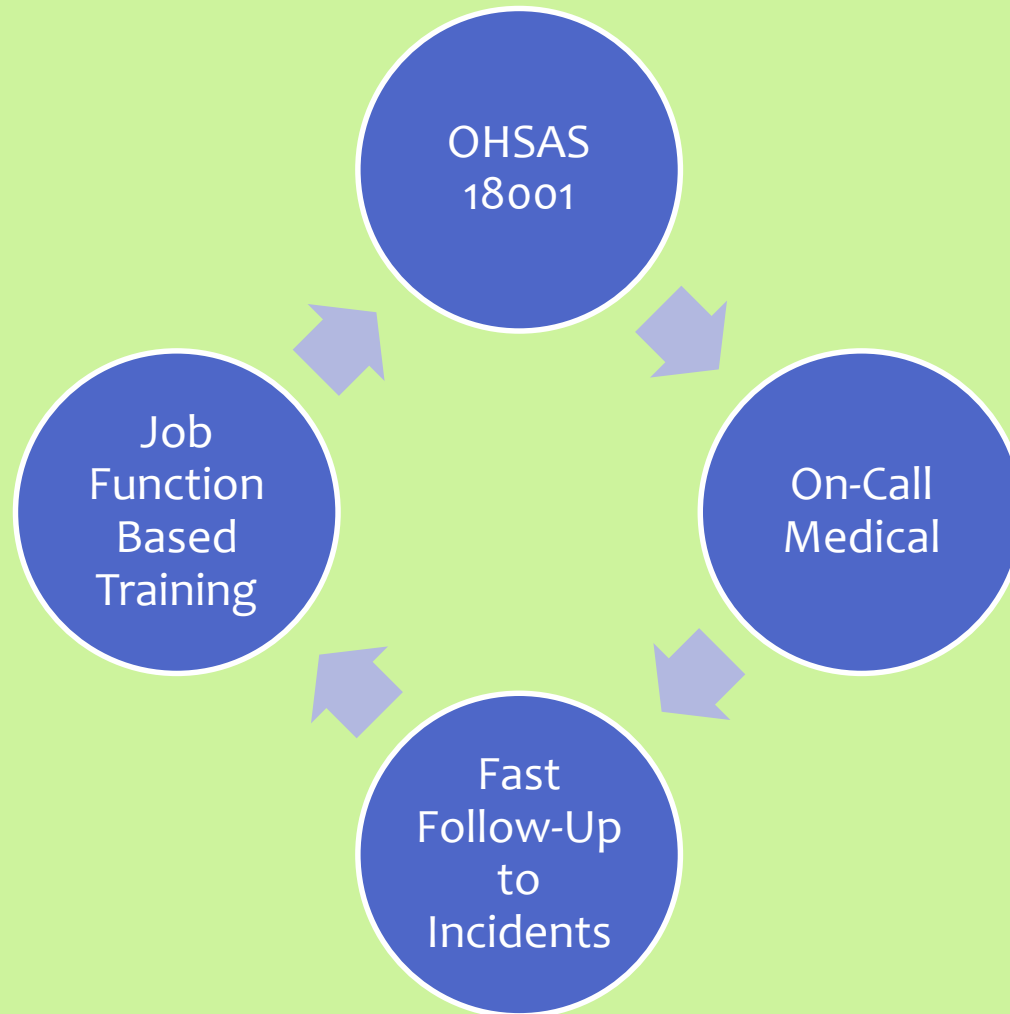
Smarter H&S
Processes

21st Century
Electronic Tools

Communication
is Key

CURRENT PRACTICE

Continued Smarter H&S Processes



CURRENT PRACTICE

21st Century Electronic Tools



Environmental, Health and Safety Alert



Event: Unsafe Condition and Extraordinary Safe Behavior

Activity: Drilling

Location: Field project

Date: July 2013

What happened?

GZA employees were on a project site where drilling was about to occur, but noticed that gas lines had not been marked. Work was stopped until pre-construction plans could be studied and the gas company contacted.

It was learned that there was another gas company in the area besides the one that had been contacted by Dig Safe. The other gas company confirmed that gas lines ran throughout the area and quickly marked the lines.

What were the main contributors?

Several contributors were identified and investigated, including:

- Dig Safe contacted the wrong gas company to locate gas lines in the area to be drilled, resulting in no gas lines being marked;
- GZAs review of pre-construction plans and diligence in chasing down the correct gas company avoided what could have been a very serious EHS Event

What did GZA do about it?

A GZA employee communicated this information to the EHS Team and the EHS Alert was generated.



TAKEAWAY LEARNINGS FROM THE INCIDENT

- **During drilling operations, don't rely on one source of information only.** Pre-construction drawings, visual clues above-ground, utility mark-outs and other information should all be used when deciding whether drilling is safe to proceed.
- **Dig Safe can make mistakes.** In this case, GZA believes that Dig Safe contacted the wrong gas company, resulting in gas lines not being marked-out at the project site.
- **THANK YOU TO HEIDI RIZZA AND JAY HODKINSON FROM THE GZA MANCHESTER, NH OFFICE FOR COMMUNICATING THIS IMPORTANT INFORMATION**

For more lessons learned [click here](#)
Questions or comments? Email richard.ecord@gza.com or call 781-278-3809



RESULTS AND BENEFITS



Lowest OSHA Recordable Rate in our history



Safety Culture Growth is Evident



Policies Separate from Guidance



H&S Program Suitable for most Clients

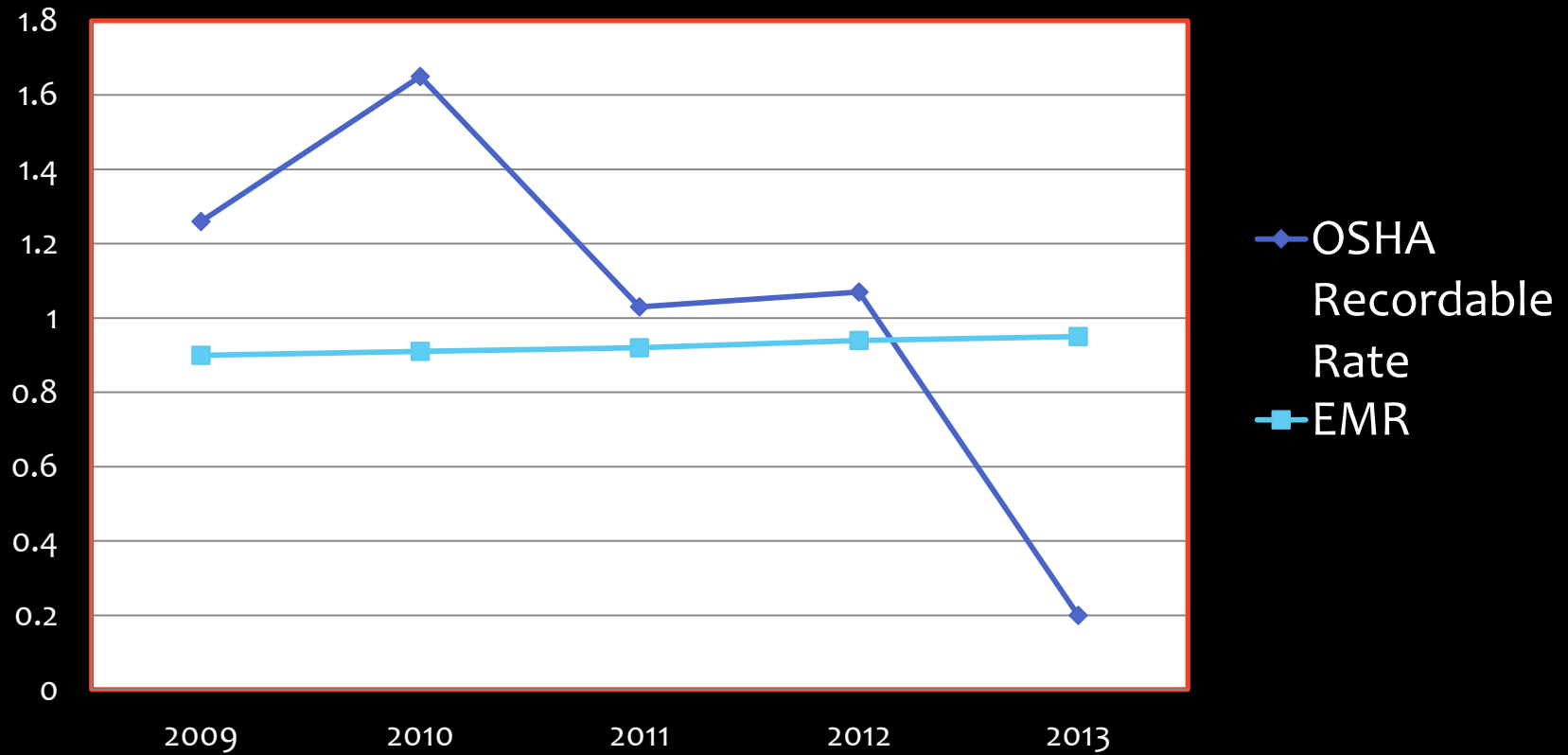


Management Buy-In and Employee Trust



EMR Continues to be Difficult

RESULTS AND BENEFITS



FUTURE PRACTICE



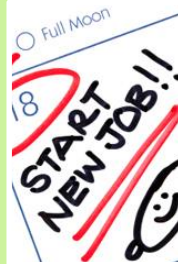
Consistent Drug and Alcohol Program



Intensive Defensive Driver/Cell Phone Training



Lockout Tagout and Arc Flash



Short Service Employee Program



Behavior Based Safety