

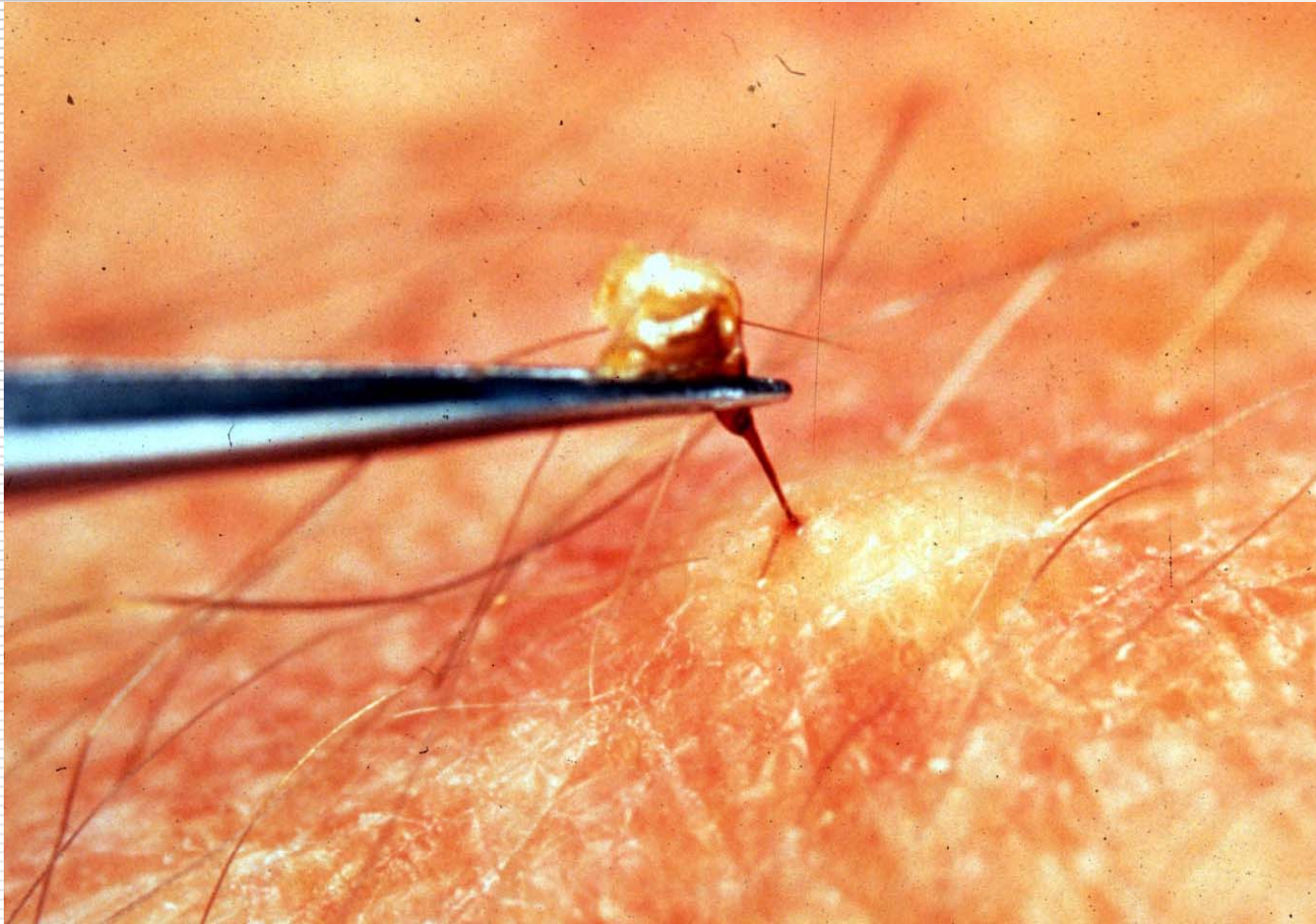
# **Emergency Preparedness:**

## **Waste Identification Transportation and Disposal**

*Removing the Sting from Integrating  
Multiple Plans*

September 16,2013

# Safety Moment: Removing a Stinger



# Discussion Summary

- **What are current planning practices?**
- **Why waste planning is important?**
- **Who are your customers during an event?**
- **What do your customers want?**
- **How to navigate within ICS**
- **Establishing plans that work together**
  - Sampling plan
  - Transportation support plan
  - Offsite and/or onsite disposal plan
- **Information expected by Unified Command?**

# Current Spill Planning Activities

- **Review Spill plan**
- **Verify or Evaluate ER Contractor**
- **Ensure Compliance with Written Plans**
- **Determine how a released material will be contained and recovered**
- **Establish how this activity will be communicated to the Unified Command**

# Establishing Cost Estimates

- **Labor**
- **Equipment**
- **Supplies and Consumables**
- **Mobilization and Demobilization**
- **The staffing needed to deliver the required information to the Unified Command**

# Why Plan for Waste?









# Establish Customer Satisfaction

- **Government or UC/IC**

- Transparent Information Access
- Easily Understandable
- Tells a story

- **Your Company**

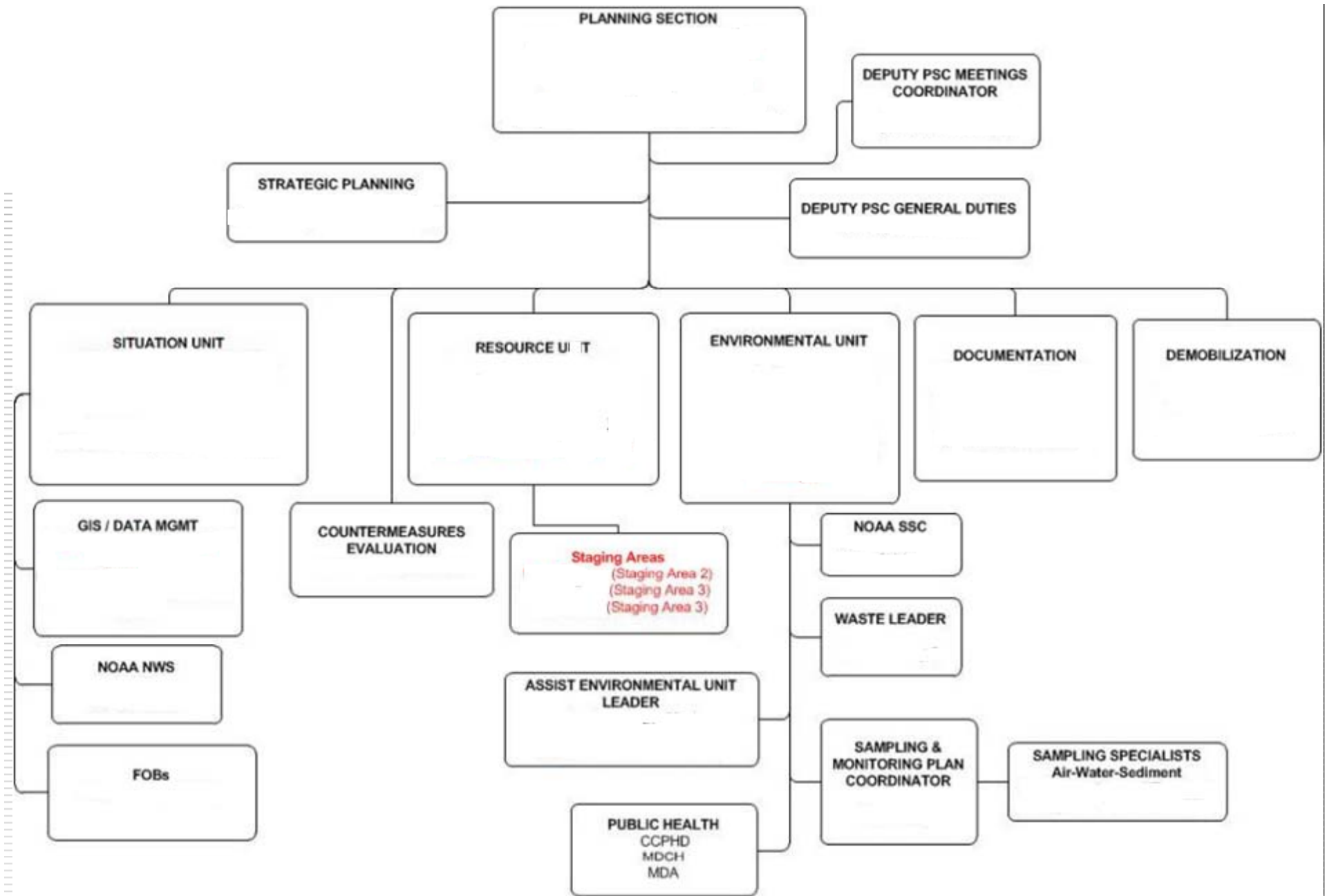
- Lower Long Term Liability
- Demonstrate command of the subject to regulators
- Control Cost

# Which Customer is More Important?

- **Both**
- **Demonstrate your CHMM Status**
- **Outline all waste regulatory drivers**
- **Outline cleanup standards associated with the contaminate of concern**
- **Understand the testing required to satisfy**
  - Waste identification
  - Clean up levels
  - Waste acceptance
- **Integrate testing, logistics, waste knowledge**

# Operate Within the Incident Command Structure

- **Who in the ICS controls?**
  - Waste Sampling Plan
  - Transportation support for waste operations
  - Disposal
  
- **How will these plans function together?**
  - Daily reports to IC/UC
  - Planning and C&G (command and general staff) meetings / briefings



# Sampling Plan

- **Identify Now**

- Lab
- Who takes the sample
- Turn-a-round Time
- Cost Estimate

- **Value Delivered**

- Time frame for waste profile completion with test data
- Number of containers needed to support operations

# Container Compliance and Transportation Support

- **Order the correct bulk container**
- **Establish a life cycle timing estimate**
- **Use estimate to support daily operations**
- **Determine what container tracking information will be supplied to the Unified Command on a daily basis.**

# Offsite Waste Management Plan

- **Identify currently qualified waste vendors**
- **Identify additional waste vendors if needed**
- **Establish profiling / waste acceptance requirements**
- **Determine what waste tracking information will be supplied to the Unified Command on a daily basis.**

# Onsite Waste Treatment Plan

- **Process material internally using currently issued permits and process**
- **Consider new onsite treatment options**
  - Water treatment
  - Soil stabilization
  - Other treatment options depending on your waste
- **Determine what information will be demanded by the Unified Command on a daily basis**



# Metrics Reported 08/26/10

Waste Stream	Daily Shipped	Cumulative Shipped
Soil Hazardous	+801cy	15,319 cy
Non Hazardous	+300cy	300 cy
Debris	+700 cy	11,200 cy
Water (Haz to Dynecol) Soapy Decon Water	+72,315 gal	1,857,383 gal
Water (to POTW – Battle Creek)	+0 gal	1,968,700 gal
Water (to Dynecol) Non-hazardous water (Not Decon)	+0 gal	124,700 gal
Water (to Liquid Industrial Waste Services - Holland)	+0 gal	332,700 gal
Oily Water (Griffith IN)	+7,000 gal	2,098,000 gal
Plummers (Grand Rapids) Nonhazardous (Not Decon)	+ 225, 200 gal	332,700 gal

## Boom Deployed:

145,118 feet

-3,197 feet

34 locations

Personnel On-Site\*: 1,800

-4

Recovered Oil: 659,000 gal

+5,000 gal

\* Based upon numbers provided from US EPA

# Metrics Reported 08/26/10

Oily Water Collected	Cumulative Total (gal)
Div. A	4,421,240 (+147,531)
Div. B	2,883,075 (+66,900)
Div. C	754,800 (+11,900)
Div. D	117,825 (+0)
Div. E	45,350 (+0)
Unknown Location	109,200 (+0)
<b>TOTAL</b>	<b>8,331,490 (+226,331)</b>

Oily Water Cumulative Volume Summary (gal)	
Collected	8,331,490
Shipped Off-site (for disposal or recovery)	6,714,183 <b>+304,515</b>
<b>REMAINING ON-SITE</b>	<b>1,617,307 -78,184*</b>

\* Reflects capture of additional waste streams

# Think “Big Picture”

- **The quicker a release is managed the better**
  - Push vendors for solutions
  - Consider all options to support rapid response
  - Ask for a variance
- **Know who is responsible for each activity within Incident Command**
  - Learn how to communicate between sections
- **Determine what information will be supplied to the UC every day as it relates to each plan**



## Removing the Sting

- **Have a waste sampling, transportation and disposal plan outline before the event**
- **Use your CHMM by demonstrating your expertise of the subject matter**
- **You can satisfy the regulators while managing risk and cost by planning now**
- **Support ICS by learning who makes decisions impacting your plans**
- **Your plan should include the information that will be supplied daily to the UC and the systems to deliver that information**



**Thank you for your  
Attention**

**Questions  
Please**

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