

Waste Management in Case of an Oil Spill

Part 2: Waste Management Cycle

Waste Management Plan (WMP)



WASTE MANAGEMENT DURING A
SPILL RESPONSE IS A COMPLEX
LOGISTICAL OPERATION



A PRE-DEVELOPED WASTE
MANAGEMENT PLAN IS
NECESSARY FOR SUCCESS

WMP – Key Elements

Regulations
& NOSC

Evaluate potential
volumes
Waste types, use scenarios

Evaluate necessary &
available resources

Identify potential
temporary storage
sites & transportation
methods

Identify final disposal
options & sites

Evaluate potential
costs

Plan/Do the following:

- Form Planning Team including government officials
- Assume worst-case oil scenario
- Identify key resources for the development of pre-incident WMP
- Determine regulatory issues
- Review existing plans
- Assess WM mitigation measures

Develop the following:

- Purpose/Scope & key contacts
- WM requirements, waste/material types & quantities anticipated
- WM strategies & facilities/assets & resources needed for the strategy
- Waste/material tracking & reporting system
- WM oversight activities
- Community outreach/communication strategy
- Health & Safety considerations

**STEP 1 :
Pre-Planning
Activities****STEP 2 :
Pre-Incident
WMP****STEP 4 :
Incident Specific
WMP
Implementation****STEP 3 :
WMP Review,
Maintenance,
Execution &
Training****Tailor the Pre-Incident WMP to incident specific conditions:**

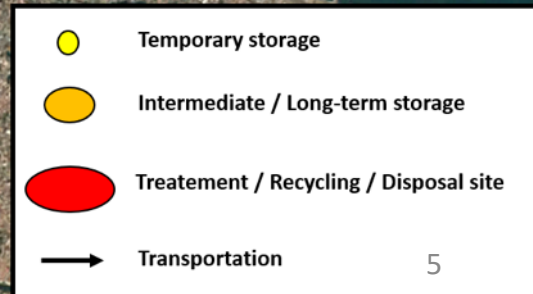
- Present Incident Specific WMP to the Unified Command
- Notify WM facilities of needs & exercise contract support where needed
- Implement community outreach plan
- Track WM operations & report progress

Perform the following:

- Review & update the WMP regularly
- Meet with all parties involved in the WMP
- Schedule & perform WMP exercises
- Develop training plan
- Incorporate WM lessons learned after action reports & improvement plans

WMP – Key Elements

- Collect
- Temporary storage/treatment
- Treatment/disposal



WMP – Key Elements

Temporary & intermediate storage

- Limiting factor for response
- Storage capacity must be sufficient or recovery operations will have to stop!



Temporary Storage

Onshore

- Skips
- Portable tanks
- Drums
- Excavated (temporary) pits
- Plastic bags



Temporary Storage Site – Characteristics

- Flat surface
- Away from waves & tides
- Easily accessible
- Not in a sensitive area



Temporary Storage Sites



Temporary Storage

At Sea

- Barges
- Vessel tanks
- Floating tanks



WMP – Key Elements

Transportation & transfer

- Collect oil into containers that can be used for transport
- Minimize double handling
- Tracking

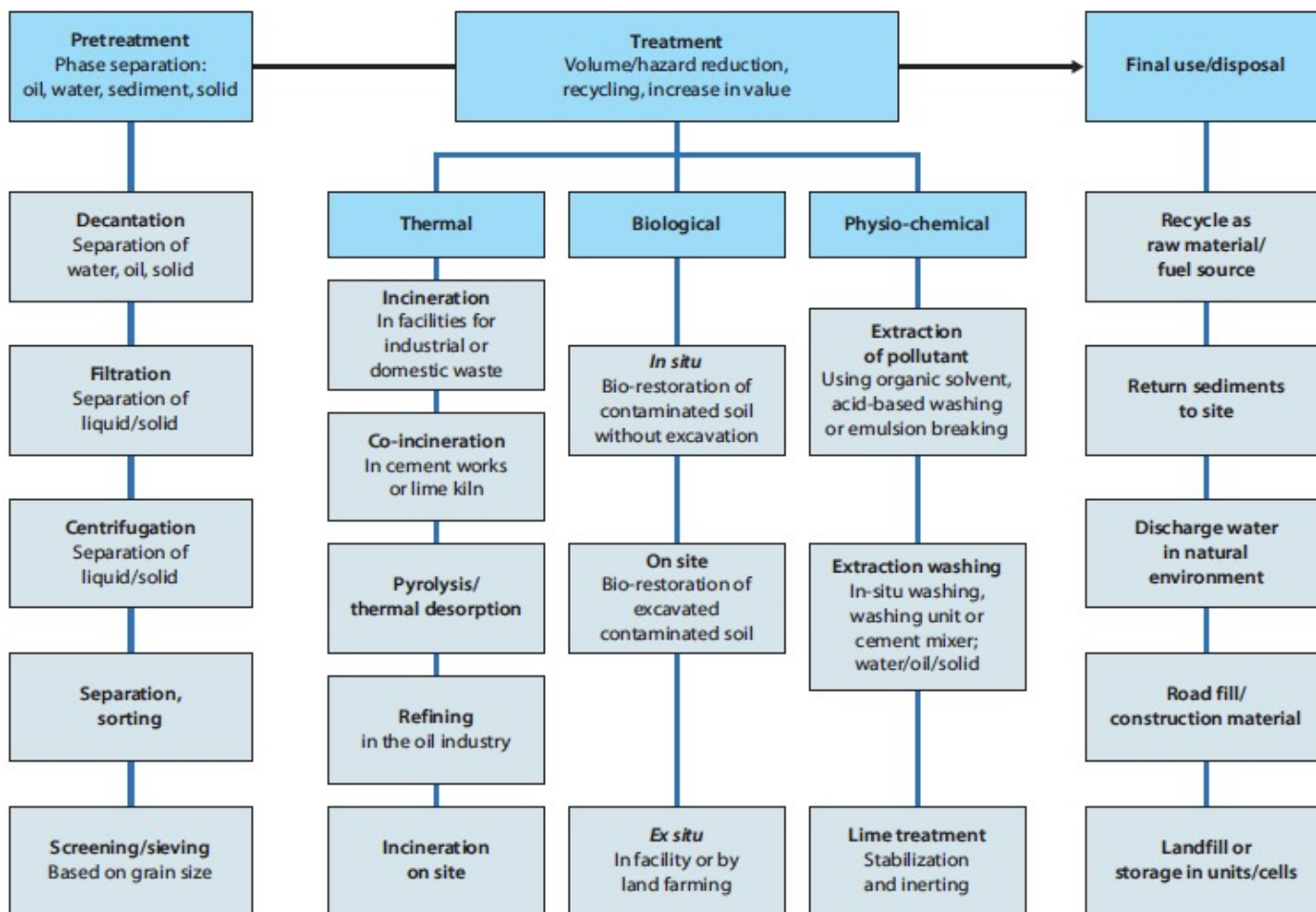




WMP – Key Elements

Treatment & disposal

- Additional treatments can further segregate oil from other materials
- Will facilitate re-use or final disposal options
- Available local options may be limited





Conclusions

Waste management can affect response effectiveness

You need a Waste Management Plan aligned with your NOSCP/ERP

Waste management must be part of your incident management structure

Minimize – Segregate

Quiz time!

Does your country/organization have a Waste Management Plan?

Yes or No

Quiz time!

What's wrong here?

- A) Wrong container
- B) Too much material in the bags
- C) No ground protection
- D) All of the above!

