

Phase#2 : Project description

- Detailed site survey
 - Geology
 - Contaminants : soil and groundwater
- Remediation : Pilot
- Monitoring
- Temporary measures
 - Prevent intake of contaminants
 - zoning, fence, confining
 - Monitoring
- Permanent measures
 - Remediation
 - Treatment

Remediation zoning

■ Hotspot area

- Contain
- Cleanup

■ Buffer zone

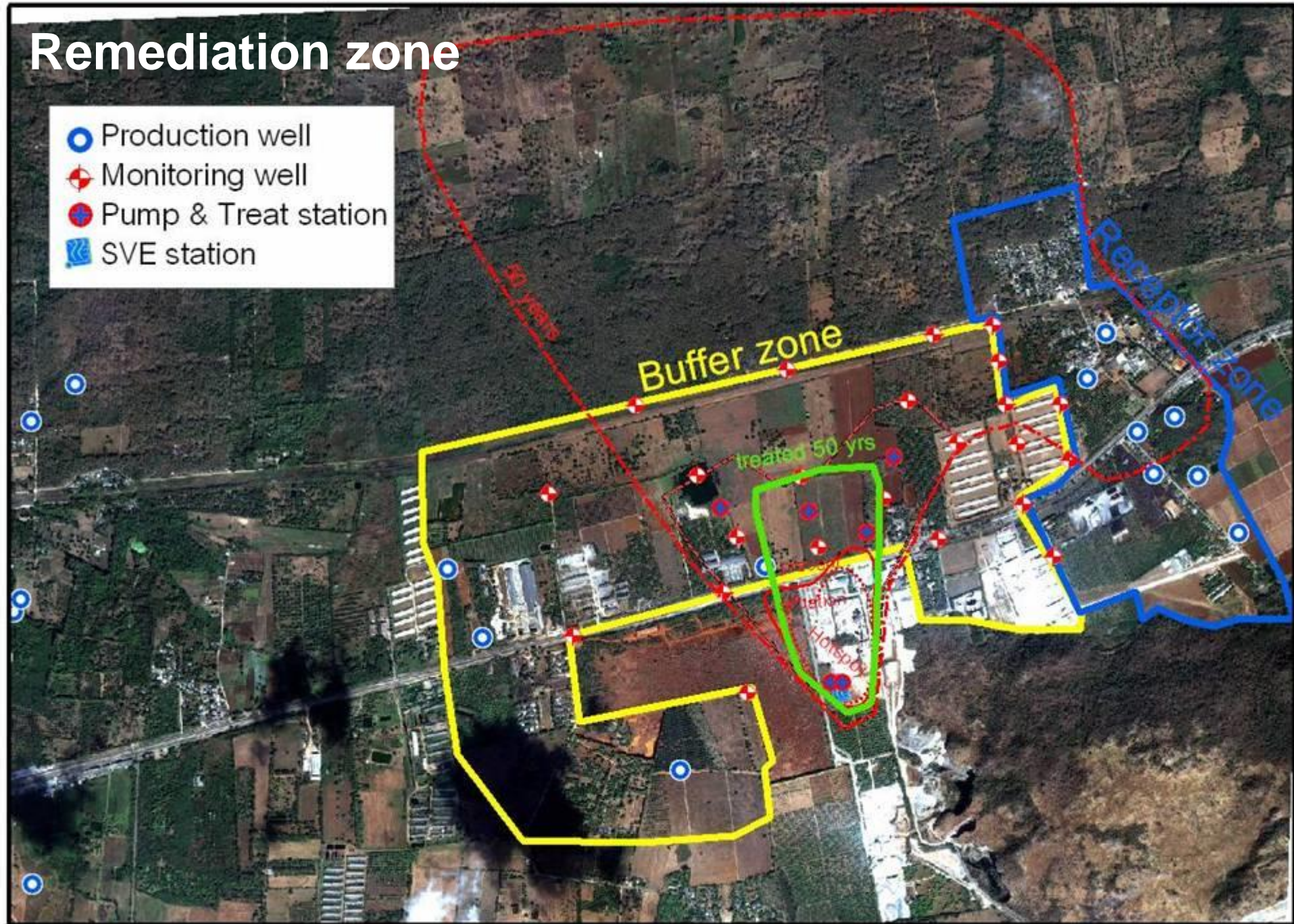
- Monitoring
- Treat

■ Receptor zone

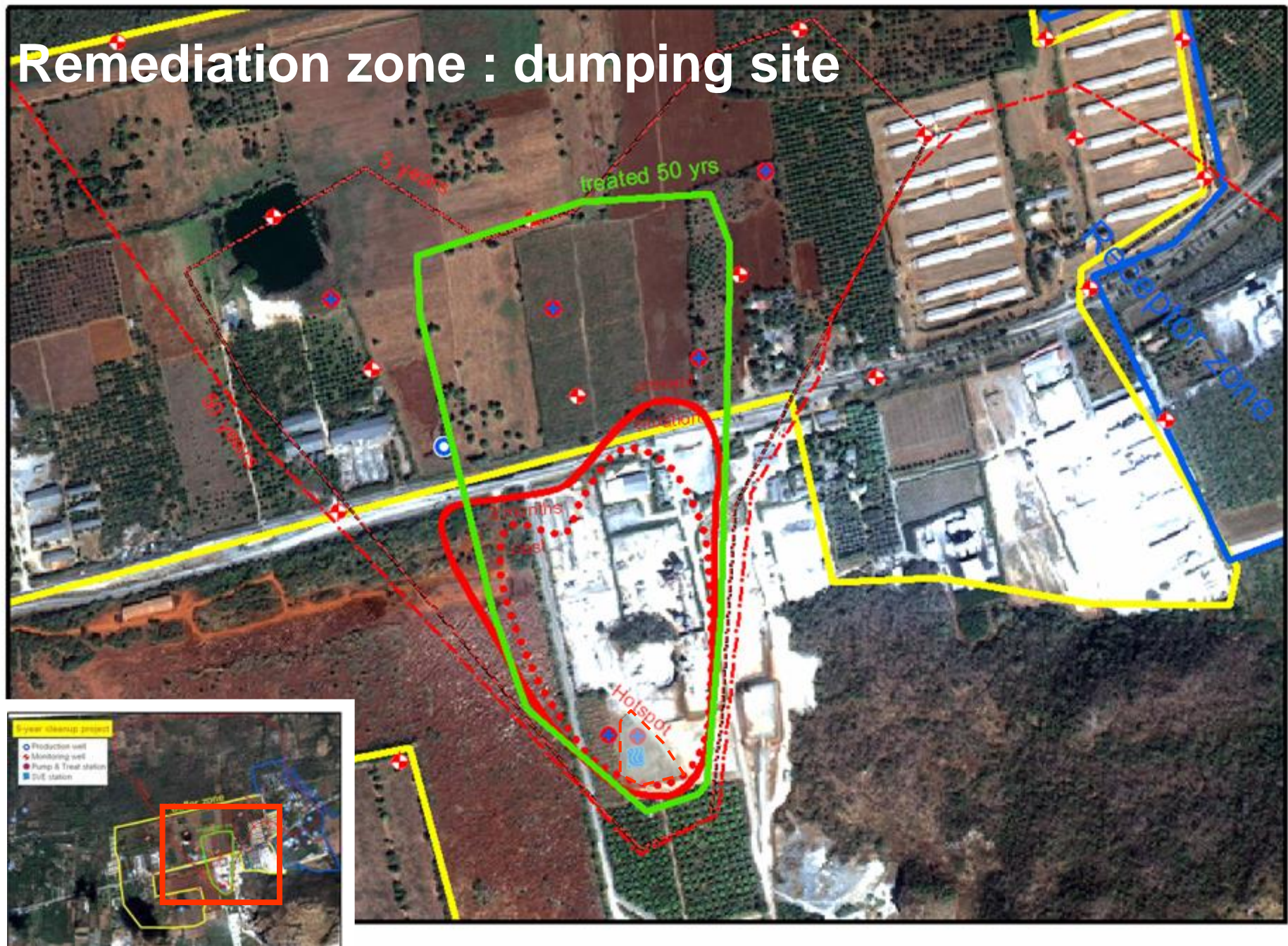
- Monitoring

Remediation zone

- Production well
- ⛶ Monitoring well
- ⊕ Pump & Treat station
- ⚙ SVE station



Remediation zone : dumping site



Selected cleanup methodology

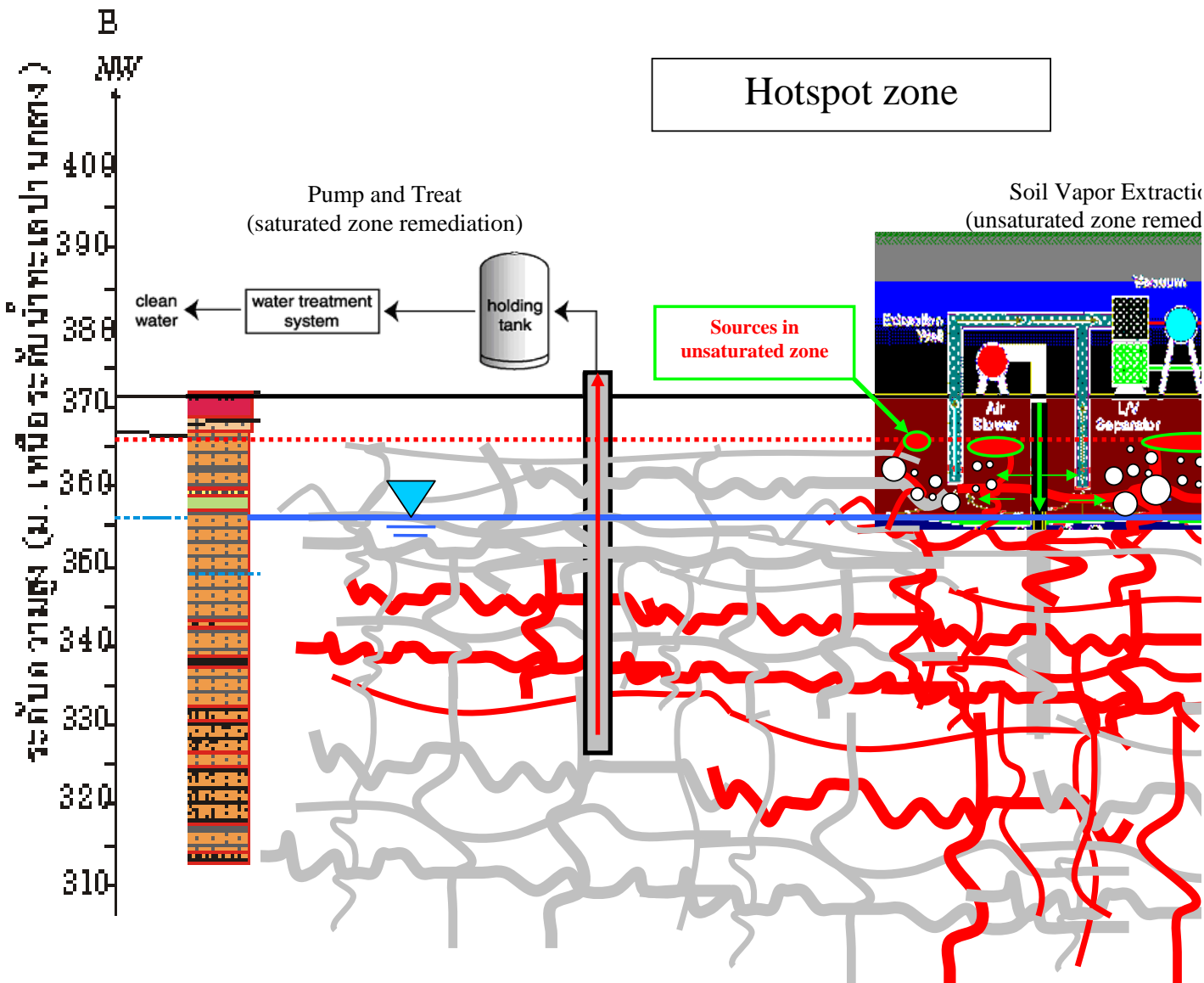
- Soil Vapor Extraction
- Pump & Treat
- Ground surface treatment unit
- Natural Attenuation
- Containment; concrete wall , grouting etc.
- Thermal conduction treatment

Cleanup combination

Combination	Option #1	Option #2	Option #3
Techonology	do nothing	<ul style="list-style-type: none"> • Soil Vapor Extraction • Pump & Treat • Ground surface treatment unit • Natural Attenuation • Containment; concrete wall , grouting etc. 	<ul style="list-style-type: none"> • Thermal conduction treatment • Pump & Treat • Ground surface treatment unit • Natural Attenuation • Containment; concrete wall , grouting etc.
Cleanness	0	30%-40%	60%-90%
Time	-	5 years	5 years
Cost	0	257 million THB [*]	409 million THB [*]

^{*}Exclude site survey

Remediation Technology



Remediation Technology

