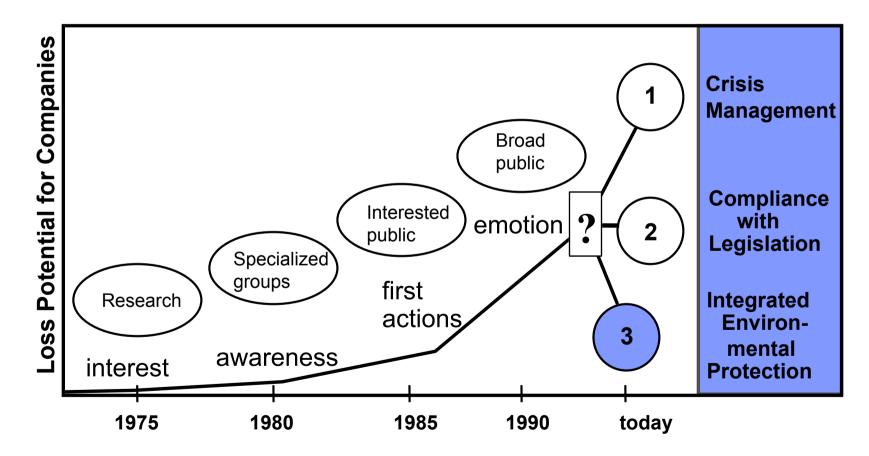
ICON GmbH

Integrated Environmental Protection

Scope of Capability

Part 2: Technical Review

Environmental issues are getting more important



Environmental Services

- Environmental Risk Analysis and regular Services
- Remediation Services (phase I and II audits)
- Due Diligence
- Special Services

General Approach

- Characterize site and associated areas
- Assess potential risks to human and ecological receptors
- Develop array of engineering and management solutions
- Implementation
- Monitor performance and correct if needed

Environmental Risk Analysis and regular Services

- Site inspections and analysis of key processes, risk assessment
- Development and implementation of environmental programs
- Definition and control of internal (company) and external standards (legislation)
- Training of employees
- Recommendations and preventive action
- Negotiations with authorities

Remediation Services

- Phase I investigations (site history), identify past and current areas of environmental significance and potential liabilities associated with the site
- Assessment of overall risk exposure
- Management of phase II audits and cleanup activities
- Negotiations with authorities

Due Diligence

- Passive and active due diligence
- Site inspections and analysis of key processes
- Assess compliance with local and national legislation
- Provide initial cost estimates to bring facilities into compliance
- Identify past and current areas of environmental significance and potential liabilities associated with the site
- Impact analysis, cost estimations for cleanup of soil and groundwater
- Post-merger negotiations
- Follow-up activities according to transaction agreement

Special Services

- Planning, modification or expansion of storage areas for hazardous materials
- Development and introduction of management systems
- Protection of management from claims and liabilities

Environmental Risk Analysis

A complete and professional investigation and consequence analysis of industrial sites covers the following items:

- Location, geology and hydrogeology
- Storage arrangement (materials and quantities)
- Production and operation hazards
- Transport facilities (pipelines, filling stations)
- Supply facilities (transformers, air-conditioning)
- Waste-water and drainage
- Waste and waste disposal
- Emissions and air pollution control
- Organisation (structure, procedures)
- Contaminated areas

Example 1: Production Emission source identification Emission control equipment Maintenance and inspecting programs Reporting and record-keeping Training

Example 2: Control Clearly defined responsibilities Adequate system of authorization Trained and experienced personnel Delegation procedures Internal verification

Environmental Risk Analysis, Key Questions

- Size of facility (main production sites), site setting (drinking-water area)
- Environmental organization, identification and control of hazards
- Liabilites expected from asbestos, asbestos inventory
- Important/significant accidents (e.g. leakage) in the past
- Underground storage facilities
- Main processes (environmental sensitive) and site history,
- Chemicals/materials used (amount, type, time)
- Use of chlorinated hydrocarbons (CHC)
- Leakages of sewage system
- Current non-compliance issues, costs anticipated for corrective action, required investments to meet legislation
- Known or suspected contaminations of soil and/or groundwater, probability that the current or past use of the site caused contaminations

Report Writing Structure

- Main Elements
 - Management summary
 - Site description (storage, processes, hazardous materials)
 - Soil and groundwater protection
 - Emissions to air
 - Waste-water
 - Waste
 - Organisation (structure, procedures)
- Minimise and/or control Risks
- Enhance communication between departments/sites
- Controlled budgeting during implementation

Report Writing, Matrix of Findings (Example)

Site	1	2	3	4	5	6	7	8	9	10
Α	Х	X	Х	X	Х	Х	X	Х		
В					Х		X	Х		
С			Х				Х			
D			Х			X	X			
Е										

- 1. Soil and groundwater contamination at site
- 2. Soil and groundwater contamination at adjacent property
- 3. Other areas of potential concern
- 4 Waste-water facility and sewage system
- 5. Degreasing units, paint/plating shop upgrade of equipment
- 6. Upgrade of storage facilities
- 7. Asbestos
- 8. Phase-out of ODS (halon)

Collection of Site relevant Data							Evaluation							
ocation	size area	size buildings	employees	begin of	product	production technologies (large scale)					underground	und outer	potential soil	legal non
	m_	m_		operation	plating	painting	degreasing	metal	others	areas	storage /	areas	groundwater	compliance
					<u> </u>			working	,		pipelines		contamination	investments
А	87000	62000	all sites	1845	xx	х	х	х	×	х		xx	x	xx
В	125000	71000	9000	1839	х	XX	XX	XX	х	XX	ХХ	XX	XX	ХХ
С	17800	6200		> 50		х	ХХ	х	}	х		?	хх	Х
D	31200	5500	}	> 100	х	Х	х		x			?	XX	х
E	80600	40300	{ } 	< 10	<u>.</u>	Х	хх	х	<u>}</u>	хх	ХХ	ХХ	х	х
F		13700	2000	1923	xx	Х	XX	Х	•	х		?	xx	xx
G	37200	16200	1700	1936	xx	Х	ХХ	ХХ	x	XX	XX	?	XX	ХХ
н	40600	33000	900	1924	х	Х	х	Х	{	Х		?	Х	х
I	37000	35000	1200	1929	x	х	х	х		×		хх	x	x
J	90000	50000	650	> 50	x	?	?	х	}	х		?	?	?
к	?	?	800	> 50	x	ж	х	х		х		х	*	?
L	92000		?	?	}				}		}		?	?
ХХ	areas wh	nich may require	e capital exp	enditures re	lated to	soil and/o	r groundwate	r contamir	nation as	well as t	o environmental	legislation		
?	further in	vestigation requ	ired to allow	final evaluat	ion									

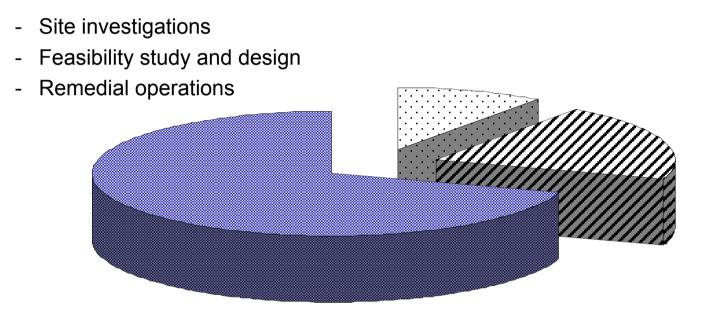
legal compliance site history contaminated land stakeholders legal compliance 3 site setting 3 stakeholders neighbour risks hazardous wastes 2 4,5 site setting neighbour risks 1 waste storage policy 3 policy 3 management system 3,5 management system waste transportation procedures, instructions 2 maintenance 3 3 2 training waste collection procedures, instructions 2, 5 4 documentation 3 commitment 2 storage facilities 5 waste management maintenance underground storage facilities 0 underground piping 0 5 process 1 (plating) emission monitoring training 5 process 2 (degreasing) process 3 (painting) 3 0,5 3 process 4 (metall working) emissions documentation CHC 0 0 PCB 5 halon 0 waste water monitoring commitment ODP's 4 asbestos 4 efficiency of raw materials use 3 effluent network storage facilities efficiency of energy use 3 3 efficiency of water use 4 effluent network efficiency of water use underground storage facilities 2 waste water monitoring 3 emissions efficiency of energy use underground piping 3 emission monitoring 2 waste management waste collection 3 efficiency of raw materials use process 1 (plating) 2 waste transportation 3 process 2 (degreasing) waste storage asbestos hazardous wastes 0 ODP's process 3 (painting) 5 contaminated land process 4 (metall working) halon 5 site history PCB CHC

Environmental Risk Analysis Evaluation Circle

Site Remediation

- analysis of site history, processes and overall risk exposure
- definition of areas of potential concern, development and coordination of investigations necessary
- risk-based approach in terms of water flow and concentration, impact to groundwater, address exposure pathways
- remediation management, supervision of clean-up activities, design and implementation of monitoring programs, negotiations with authorities

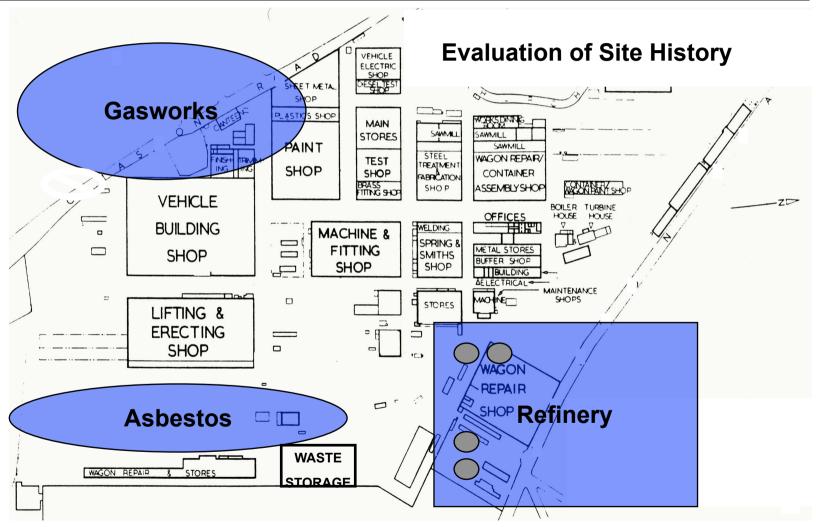
Steps and Costs of Remediation Projects:

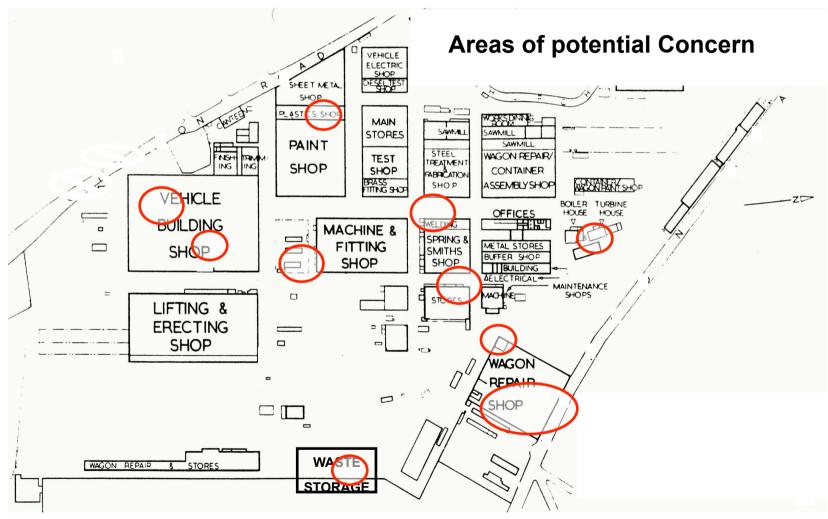


□ Design 10% Z Investigations 20% ■ Remediation 70%

In early stages, costs are relatively low but decisions made here do have a significant impact on further remedial operations. An adequate assessment of contaminated areas is vital and provides the basis for an efficient site remediation (US \$, rough figures for overview only).

Drilling Taking samples Chem. Analysis	50 - 100 US \$/m 20 US \$/Sample 20 - 150 US\$/Analysis	metals 20.00 chloride/fluoride 20.00 cyanide 50.00 aromatic hydrocarb. 70.00 chlorinated hydroc. 70.00 pesticides 150.00
		PCB 150.00 PAH 100.00
Expert Support Staff Report	120 US \$/h 80 US \$/h approx. 10.000 US \$	hydrocarbons 50.00





Environmental Due Diligence



Technical adjustment of contracts and/or documents (e.g. further activities, scope of investigation, remediation limits, etc.)

Preparation Specific risks of branches adjusted to experience and background of ICON

Transaction

Questionnaire

Due diligence issue paper

Management presentations Data-room interviews site visit

Evaluation of data quality

Assessment of potential risks and capital expenditures

Action needed recommendations

Post acquisition

Follow-up activities

Remediation modernization or upgrade investments

Negotiations (buyer/seller authorities)

Coordination reporting

Scope of Investigation

- The environmental due diligence focused on significant future investments related to:
 - (a) Contaminations of soil and/or groundwater
 - (b) Upgrade/ modernization of existing facilities to comply with environmental legislation.
 - (c) Industry standards, state of the art
- Documentation provided (Data Room) regarding capital expenditures which may be necessary for clean-up activities, the upgrade of existing facilities or other environmental relevant issues.
- Confirmatory informations during interviews.
- Site visits (if applicable during this part of the environmental due diligence).

Liabilities related to Contamination

- Have the sites obtained by the business been examined for soil and/or groundwater contamination?
- Are there any clean-up activities?
- In absence of soil and/or groundwater investigations: are there indications that the current or past use of the sites has caused any contamination?
- Are there any information due to site inspections by officials that may suggest that any requirements may be imposed by public authorities (e.g. soil and/or groundwater investigations, clean-up work)?
- Has the company already been held liable for any such contamination?
- Is there any site located within a water catchment and/or drinking water area?
- Are there any informations about the sites history that raise concern for for soil and/or groundwater contamination?
- Have there any waste disposal activities been carried out on any of the sites?
- How great is the risk that pipes of the sewage system are obsolete and waste water has leaked?

Liabilities related to Production Facilities

- Do production/storage activities cause any pollution of air, water or adverse effects on the environment? Significant storage facilities > 100m³
- Did these adverse effects lead to any action by the public authorities?
- Are these adverse effects to air/water likely to trigger any damage claims of third parties?
- Have limits /requirements been tightened or are there any indications that will impose stricter limits or requirements?, are therefore major changes of relevant equipment expected?
- During routine control or test measurements done internally or by the authorities, were there any elevated concentrations (eg. emissions, waste water) discovered? And, if applicable, will this lead to substantial investments to ensure compliance with legal requirements and conditions?
- Have any accidents/incidents occured that may require substantial investments ensuring legal compliance?
- Are there pending or anticipated legal disputes concerning environmental issues?

Major Documents required

- Internal reports on soil and/or groundwater investigation
- Documentation on phase-I audits, investigations of the site's history
- Reports on recent/current clean-up activities
- Cost estimations for potential clean-up activities anticipated
- Investment plans, internal studies etc. which allow a reliable assessment of potential capital expenditure related to the upgrade of existing facilities and/or other environmental relevant issues
- Correpondence with authorities

Conclusions and Recommendations

- Financial expenditures anticipated (amount adjusted for reduction of value of enterprise) and activities recommended
- Clarify if there are:
 - Known or suspected contaminations of soil and/or groundwater
 - Major investments anticipated to fulfill legal requirements
 - Non-compliance issues, no pending claims or litigation
 - Major investments anticipated due to asbestos or any other hazardous materials
- Specify and cover the potential risks identified in the representations and warranties and/or indemnifications

Thank you for your Attention

For further Informations please contact:

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