AGENDA SuRF- UK Phase 2 Workshop HCA Office, Warrington 10.30am – 4.30pm

Time	Title Speaker
10.30 - 10.40	Welcome and Housekeeping Nicola Harries
10.40 - 10.45	Aim of the Day – Nicola Harries
10.45 – 11.00	Background to SuRF-UK - Richard Boyle
11.00 – 11.30	Presentation of Case Study No. 1 –Petroleum Retail Site, Jonathan Smith
11.30 – 11.45	Discussion
11.45 – 12.00	Coffee
12.00 - 12.45	Presentation of Case Study No.2 - Historic Copper Mine, Paul Bardos
12.45 – 1.00	Discussion
1.00 – 2.00	Lunch
2.00 - 4.00	Presentation and working through Case Study No. 3 – Brownfield Redevelopment, Jonathan Smith and Paul Bardos
4.00 - 4.30	Discussion and Wrap Up
4.30	CLOSE



SuRF-UK Phase 2 Case Study Workshop

October 20th 2010 at HCA Office Warrington,

Attendees::

Attendees::
Jonathan Smith – Shell Global Solutions
Nicola Harries – CL:AIRE
Richard Boyle – HCA
Paul Bardos – r3
Naomi Regan – National Grid
Alison Hukin – Environment Agency
Judith Scott – Bury Council
Maurice Bowden – Countryside Properties
Garry Preece – AkzoNobel
Anwen Hughes – Golders
Alan Thomas – ERM
Ann Barker – Bradford City Council
David Sibbitt – ASDA
Stephen Wielebski – Miller Homes
Sarah Mackay – WSP
Phil Morgan – SIRIUS Group

AGENDA

	Welcome and Housekeeping	Richard Boyle
2.	Aim of the Day	Nicola Harries
3.	Background to SuRF-UK	Richard Boyle
4.	Presentation of Case Study No. 1 –	Jonathan Smith
	Petroleum Retail Site	
5.	Discussion	
6.	Presentation of Case Study No.2 -	Paul Bardos
	Historic Copper Mine	
7.	Discussion	
8.	Presentation and working through	Jonathan Smith and Paul
	Case Study No. 3 – Brownfield	Bardos
	Redevelopment	
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9.	Discussion and Wrap Up	

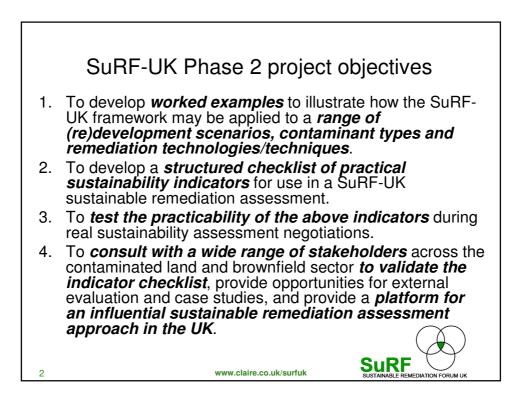
ITEM	
1.	Welcome and Housekeeping Richard Boyle welcomed everybody to Homes and Communities Agency (HCA) office, thanked them for attending and provided the house keeping details.
2.	Aim of the Day Nicola Harries (NH) welcomed everybody on behalf of the SuRF-UK Steering Group and explained the agenda for the day and that this was the second workshop to engage with the brownfield and contaminated land community since the publication of the framework. She reiterated the Steering Group would value any feedback that people have on the framework, particularly from those that have tried to use it.
	NH explained that the Steering Group were now working on Phase 2 and outlined the work programme for Phase 2. She explained that the Steering Group would particularly value feedback on the categories of indicators that were outlined in the framework document. Over

	the last few months the Steering Group has been refining these and will be uploading their work in progress onto the SuRF-UK web pages shortly. We would value feedback on whether the coverage is adequate, are there any gaps, are there too many too few, is it clear what the indicators are? The Steering Group would value any comments.
3.	Background to SuRF-UK Richard Boyle provided a presentation to the background to SuRF-UK and a brief overview to the framework document and how the Steering Group hope it will be used.
4.	Presentation of Case Study No. 1 – Petroleum Retail Site JS presented case study No. 1 where Shell had undertaken a tiered sustainability assessment on a petroleum retail site. He explained how he had engaged with colleagues who had not had any involvement in the site to undertake the assessment and that this assessment was undertaken retrospectively as the site had already been remediated.
	He presented the site and background information and explained the aim was to road-test the SuRF-UK sustainable remediation framework and to compare a single remediation project under different sustainability appraisal tools. He wanted to look at the ease of application, and assessor/auditor skill requirement, cost and time it took to undertake the assessment, data requirements, consistency of resulting environmental management decision and to collect evidence to inform selection of an appropriate tier of sustainability assessment.
	JS explained the sequential process that they used starting simply and then progressing in complexity. Initially they undertook a Qualitative Assessment where a roundtable conversation was had and different remedial options were given a high/medium/low rating. Then a Semi-quantitative assessment was undertaken using Multi-Criteria Analysis (MCA), this was spreadsheet-based with scoring and weightings applied. Finally a Quantitative assessment using – Cost-Benefit Analysis (CBA) using an Environmental Economic consultancy. CBA was considered and used to inform a decision by the assessors.
	 The conclusions of the exercise were: Ranking of remediation options is similar in all 3 tiers Management decision was very similar at all tiers Clear rules, definitions and participant understanding are critical Tiers Qualitative assessment successfully distinguishes between groups of options Quantitative assessment necessary to distinguish subtly different options Start simple, and quantify only where needed to resolve complexity For 'simple' remediation decisions (e.g. an operational site, no land-use change), a low-tier assessment was robust
5.	Presentation of Case Study No.2 – Historic Copper Mine Paul Bardos (PB) presented a case study where he had undertaken a sustainability assessment on a Historic Copper Mine in Wales using the SuRF-UK framework. He explained that this work was undertaken as part of a wider project known as C-CURE (biochar stabilisation) that had been funded by the Technology Strategy Board. PB explained the site and its history, the remedial options considered, Applying the SuRF-UK framework, objectives and stakeholders, scope, boundaries and technique, sustainability assessment findings, sensitivity analyses and conclusions.
	In conclusion PB demonstrated In this case study that biochar stabilisation offers the more sustainable remediation across all elements (social, economic and environmental). The sustainability assessment was a simple, cheap qualitative approach that yielded clear outcomes after only two meetings. The case study showed how sensitivity analysis improved the robustness of findings. This work is still subject to validation, with some additional quantitative assessment on carbon footprinting of the bio-char and further and wider stakeholder engagement but it is hoped that this will become a SuRF-UK Case Study when finalised.

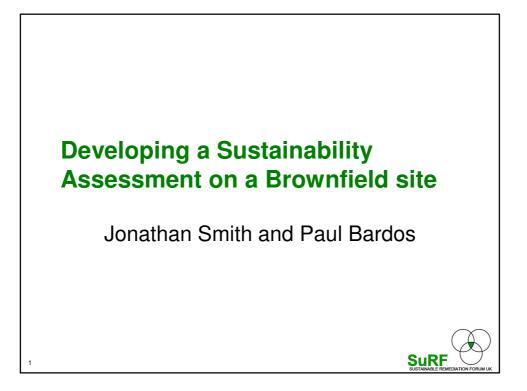
6.	Discussion throughout the day
	 It was felt that a tiered approach was an appropriate approach to take which allowed flexibility depending on the size of project.
	 It was also felt that it was good to undertake a sensitivity analysis.
	• There was questions on how far does one need to go before you undertake a quantitative
	assessment? It was discussed that it was important not to jump straight into a
	quantitative assessment as it would be too costly and not always justified and could skew
	 the answer. It was felt that if you engaged with all stakeholders it may be difficult to look at all ideas
	put forward by them. There would need to be some judgement made earlier on. It was
	agreed that this is acceptable as long as you record all the assumptions that you make to
	provide transparency.
	It was felt that the approach that SuRF-UK was making with the framework document
	would work well on large projects and if there is problems with stakeholders to help come
	to a conclusion, however it was felt that to get SuRF-UK framework rolled out across the whole redevelopment industry would be too costly. Many developments are small. It was
	felt that it would be too difficult to undertake a sustainability assessment in addition to
	everything else that is required. Cost margins are too small to add another tier of
	assessment.
	• Other attendees felt that clients or site owners may be receptive due to their companies
	CSR credentials and wanting to maintain them.
	• There was discussion to explain that a sustainability assessment should be seen as integral part of your redevelopment and following good practice such as using CLR11 and
	not seen as an additional burden.
	• There was discussion on Stakeholder Engagement. In people's experience it can be very
	varied. It was agreed that the framework would allow engagement in a more accessible
	way. Stakeholders are not predictable so following the framework would allow
	 transparency. It was stated that developers would be more inclined to undertake a sustainability
	It was stated that developers would be more inclined to undertake a sustainability assessment if there were obvious cost savings/incentives for them given by Planners. At
	present it is the planners that tell the small developer what they can and cannot do with
	little flexibility.
	It was felt that Civil Engineers/Architects and Planners need educating in SuRF-UK
	framework.
	If undertaking a sustainability assessment was identified as a requirement in the legislative process it was felt that there would be a much greater take up rather than it
	being voluntary. This would ensure that the best overall scheme for the site was
	selected.
	It was stated how important that the SuRF-UK framework was integrated into the existing
	Contaminated Land Report 11 (CLR 11) options appraisal process. The SuRF-UK
	framework document must be seen as an integral part of the options appraisal process identified in CLR 11. They should not be seen as two different processes. CLR 11 is an
	overarching framework and SuRF-UK framework provides a finer level of detail to assist
	in the decision process of a sustainable remedial option. It was felt that this will happen
	with time and it was essential that the Steering Group promote the framework as widely
	as possible.
7.	Case Study Exercise
	JS and PB presented Case Study 3 where attendees were asked to work in small identified
	groups and undertake a sustainability assessment on a former gasworks site. The two
	groups were requested to provide remediation options assessment to a client to support a sustainability appraisal using the SuRF-UK Sustainable Remediation Indicators.
8.	Discussion
	It was agreed that it was a very interesting exercise and attendees felt that they had learnt a
	lot from considering others points of view. Consultants that attended felt they would often carry out an options appraisal but if you document your thought process it made you think
	more about the decisions that are being made and the stakeholders that you should involve in
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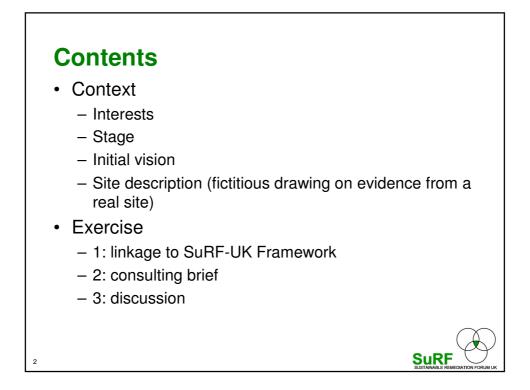
	the decision process. It felt much more of an iterative process than you would undertake typically. If the geotechnical elements and contaminated land elements of the development were brought forward together and considered at the same time then it was felt that you would give a better more cost effective solution. Wider dialogue with stakeholders would also provide a better designed project.
9.	Closing JS concluded the meeting and thanked everyone for attending. JS reiterated that the SuRF- UK Steering Group would take away the attendees thoughts and they would be circulating notes from the meeting. One more meeting will be held where the exercise will be repeated amending in light of the feedback from the attendees. JS also asked for case studies that can be shared on the SuRF-UK website and any additional thoughts that people may have after the event to forward to Nicola Harries.

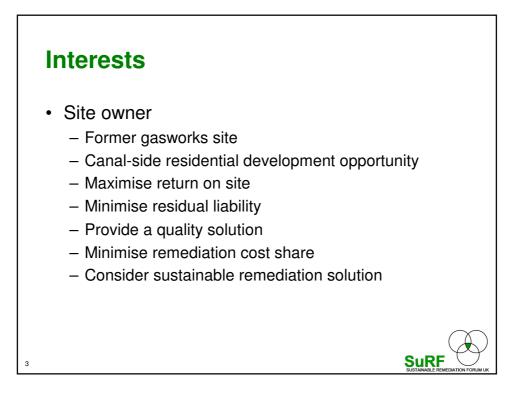


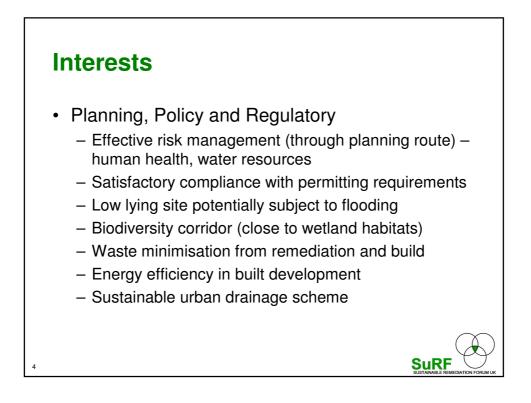




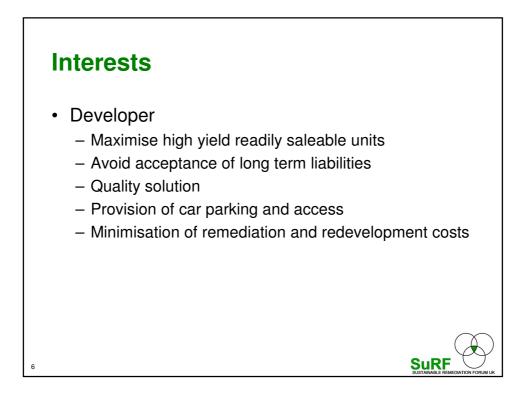


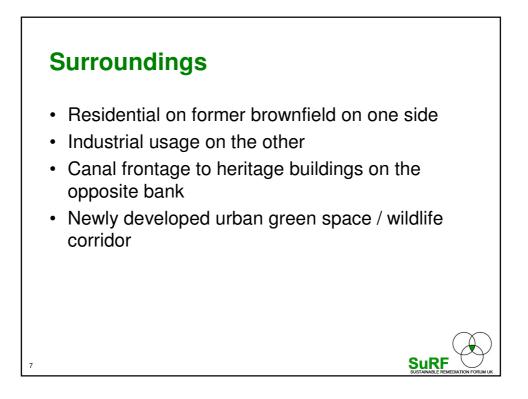


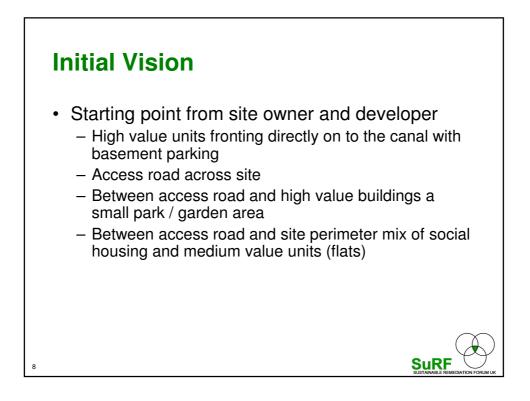


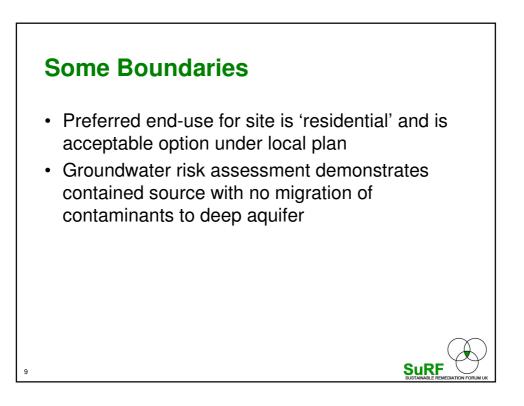


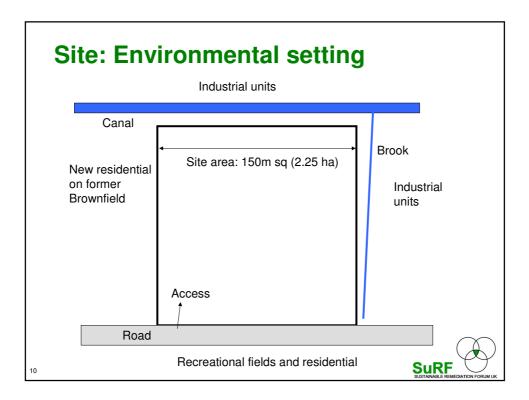


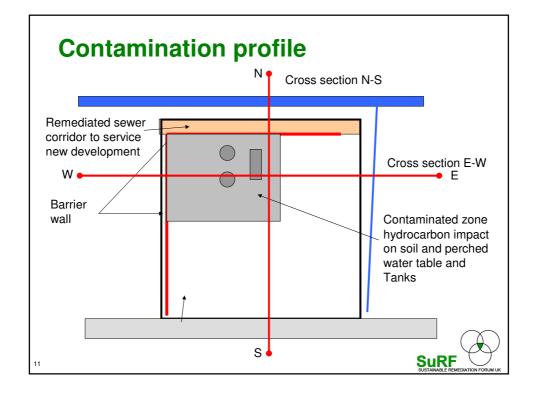


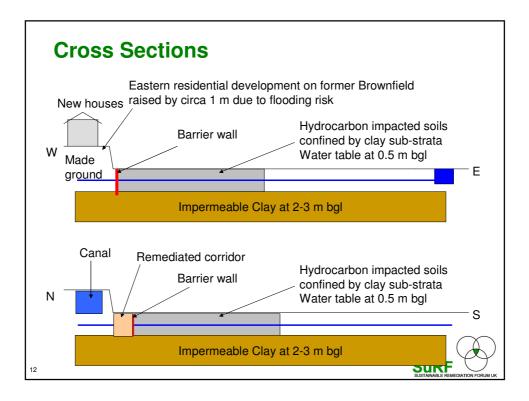


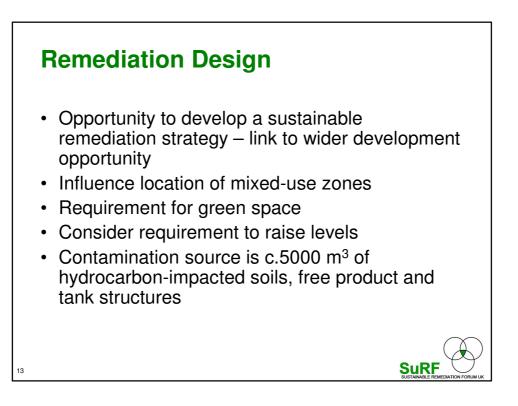


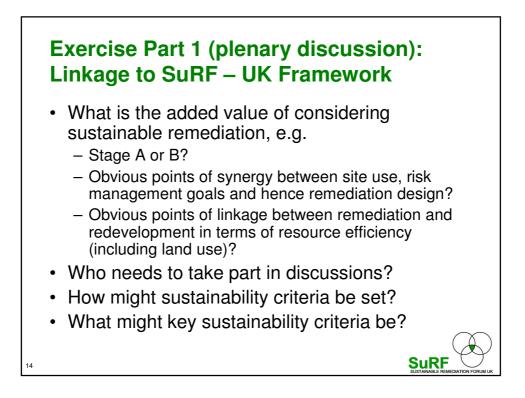


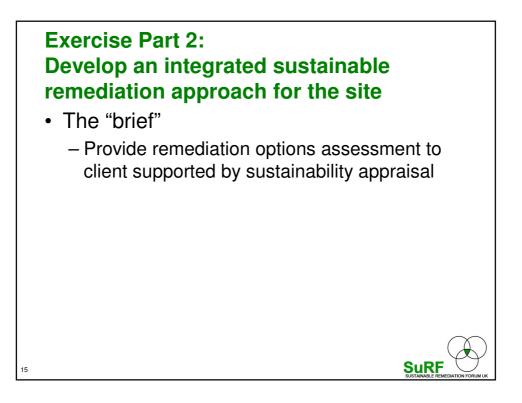


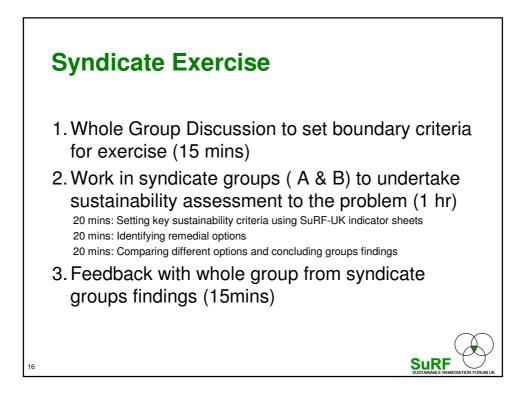


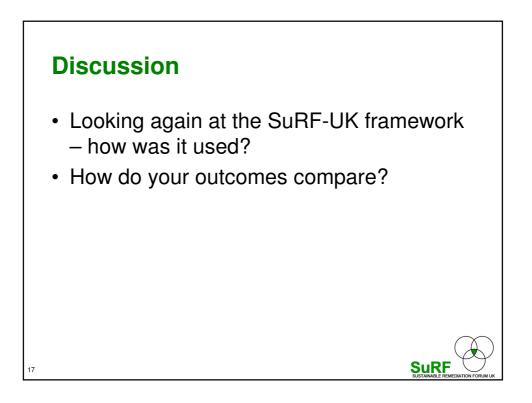


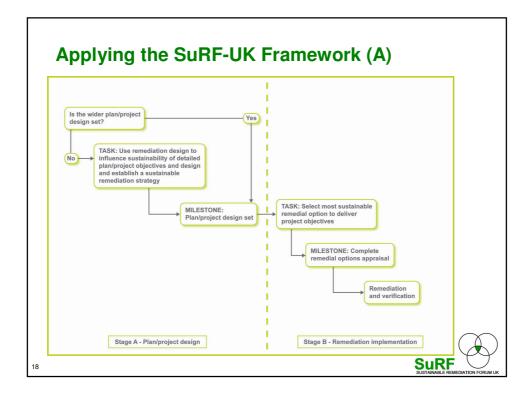


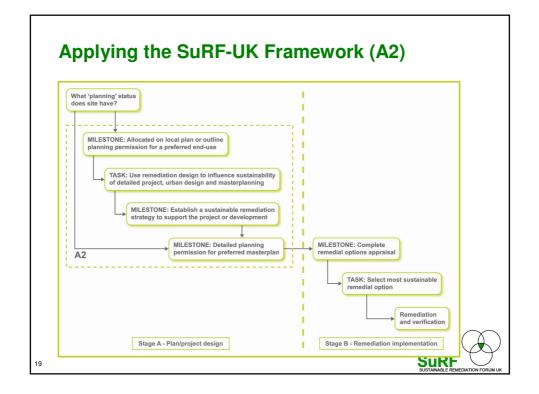


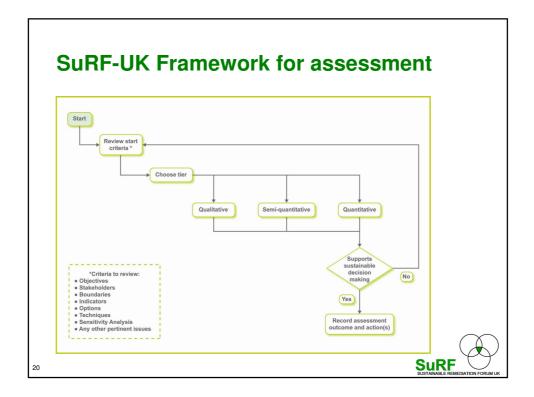












	Dig and dispose	Thermal desorption	Land farming	Cap and contain
Effective?	Yes	Partially (only HCs)	Yes (assuming mixing dilutes metals)	Yes
/lanage isks?	Yes	Yes	Yes	Yes
Evaluate urther	Yes	No	Yes	Yes

	Dig and dispose	Thermal desorption	Land farming	Cap and contain
Effective?	Yes	Partially (only HCs)	Yes (assuming mixing dilutes metals)	Yes
Manage risks?	Yes	Yes	Yes	Yes
Evaluate further	Yes	No	Yes	Yes
Env	Use of landfill void Clean aggregate imported	[CO ₂ footprint Energy use]	Low environmental burden	Avoided traffic and CO ₂ from process technology
Soc	Traffic movement Dust High certainty of effectiveness		Potential for odour Perceived 'green solution'	Investor perception
Econ	Liability removal Landfill tax Rapid		Longer remedial time frame Medium cost	Potential liability remains Institutional control requirements Lowest direct cost
Possible rank	3	N/A	1	2