

Construction Hub Project Meeting

10th July 2014

10:30	Welcome	Poppy Lyle
10:35	Review of previous meetings minutes	David Green
10:45	Project title	David Green
10:50	Communication Strategy	David Green
11:00	Project Risks	David Green
11:15	Website	Daniel Marsh
11:30	Equipment update	All
11:45	Local Authority Construction Projects	Daniel Marsh
12:00	Site Assessment Criteria	Daniel Marsh
12:15	Project Plan update	David Green
12:25	Finance/Signing off work	David Green
12:30	Date of next meeting	All
12:35	AOB	All



PROJECT TITLE:
LONDON LOW EMISSION
CONSTRUCTION
PARTNERSHIP

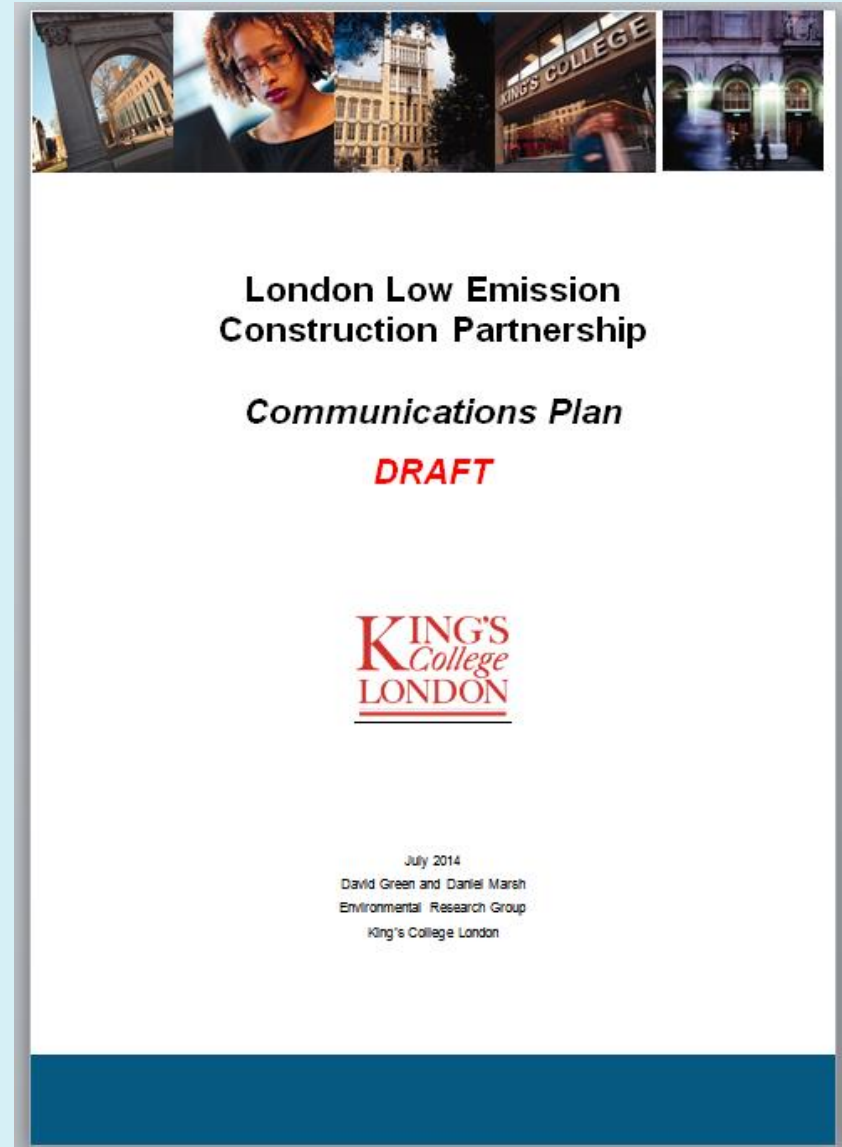
Communications Plan

- Identify, prioritize and get to know your audiences
 - Who are we trying to reach?
 - Establishes people, money and time requirements (who, when and how much?)
- Clear, strong messages
 - Key messages, what are the project aims, is it / was it successful?
 - Specific messages to key audiences
- Mitigates risk
 - Creating a positive image
- Sets the basis for measurement
 - Measure the impact of the project from start to finish
- Provides direction for content development efforts
 - Different formats and different styles to meet the expectations of different stakeholders and different channels



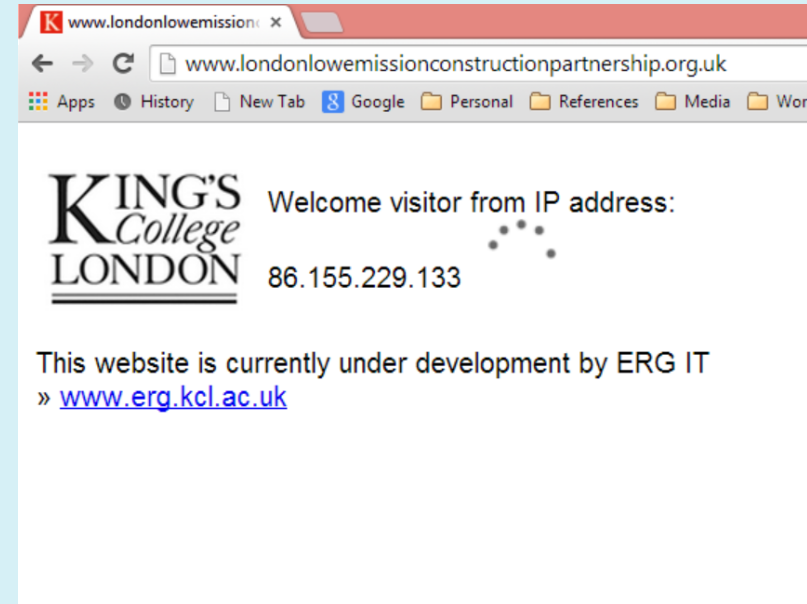
Risk Management Plan

- Identify, prioritize and get to know your audiences
 - Who are we trying to reach?
 - Establishes people, money and time requirements (who, when and how much?)
- Clear, strong messages
 - Key messages, what are the project aims, is it / was it successful?
 - Specific messages to key audiences
- Mitigates risk
 - Creating a positive image
- Sets the basis for measurement
 - Measure the impact of the project from start to finish
- Provides direction for content development efforts
 - Different formats and different styles to meet the expectations of different stakeholders and different channels



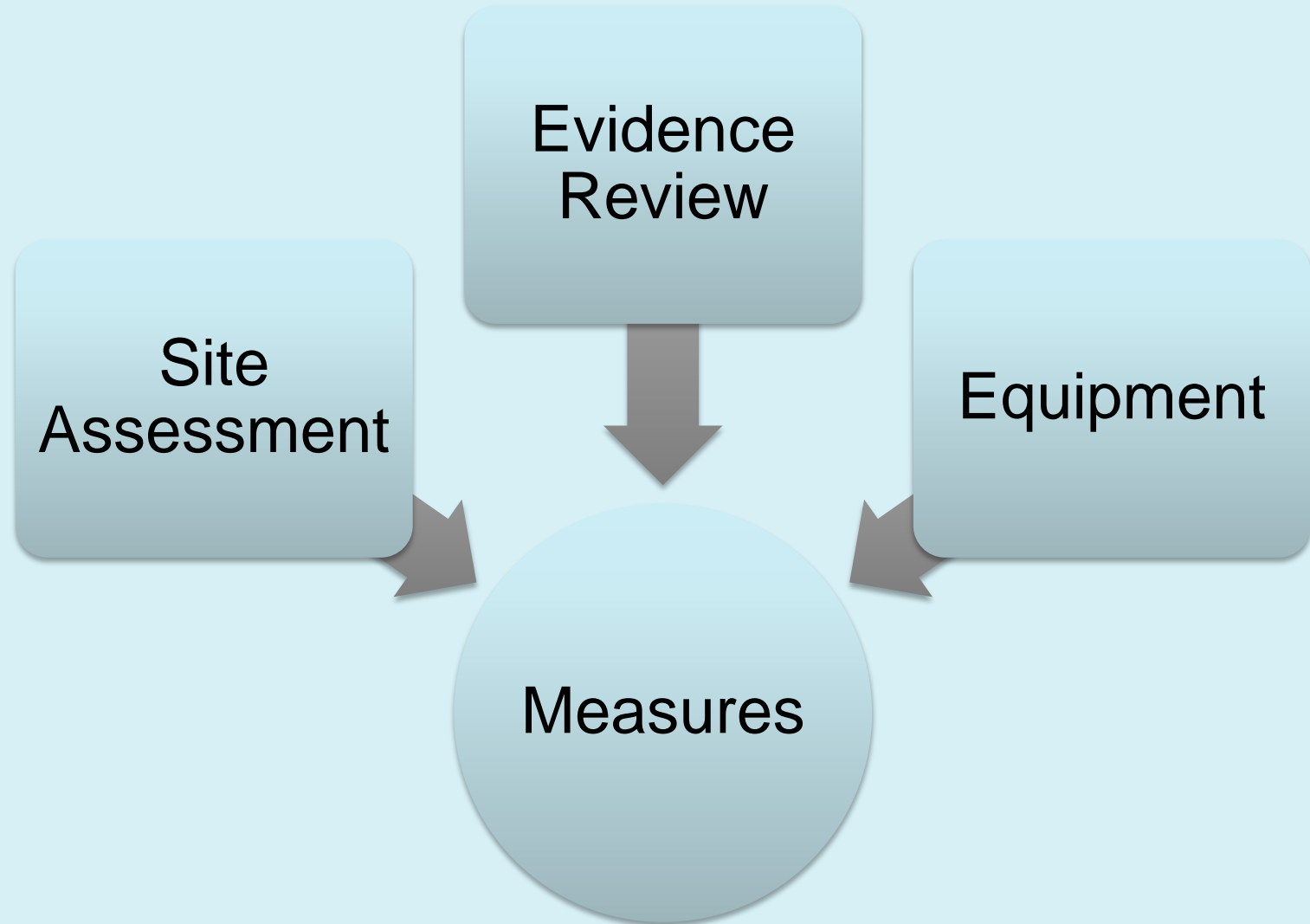
Website

	Priority	Construction/Demolition Developers	Local Authorities Planners/EnvHealth	General Public
Must	1	GLA / LLECP branded		
	1	Use latest technology - improve UX Includes SMS/email alert system	Use latest technology - improve UX Includes SMS/email alert system	
	1	Alert system		
	2	Automatic reporting system		
	2	Web based, user-generated reports	Automatic reporting system	
	3	Advice for mitigation and Best Practice	Advice for mitigation and Best Practice	
	3	Examples of Best Practice		
	4			Construction near you?
	4			what you should know
	4	Links to reports/guidance	Links to reports/guidance	Air Quality and health
Should	5	Self-assessment tool kit	Self-assessment tool kit	
	6	Developer and LA access		
Could	6	Forecasting for construction		
	6	Equipment advice		
	7	News Items	News Items	
	7	Activity Recording		
	8	Website login/personalisation		
	8	Construction App Development		



<http://www.londonlowemissionconstructionpartnership.org.uk/>

What measures are in our toolbox?



Evidence Review

- Aims
 - Provide information for outreach programme for industry
 - Provide up to date information regarding availability and efficacy of emission abatement measures

Evidence review

- Project objective
 - To raise awareness of the impact of the industry on local air quality, educate and encourage best practice in the application of pollution abatement measures and monitoring on construction sites in London.
 - Communications plan key message: The construction industry sector has a substantial effect on local air quality. The London Atmospheric Emissions Inventory estimates that construction activities contribute 13% of PM₁₀, 17% of PM_{2.5} and 12% of NO_x emissions from Greater London. As emissions from other sources, such as vehicle exhaust are abated the relative contribution of this sector will rise.
- NRMM listed as a distinct source in LAEI, PM from demolition / construction compiled into 'other'
- Better information is required from LAEI
- % PM10, PM2.5, NOX from different processes / sources (NRMM, demolition, construction, construction HGVs) will help target measures

Availability and efficacy of measures

Mitigation of PM at source

- On-tool technology
- PM created by common activities (cutting, crushing etc.)
- Materials handling (storage, stockpiles etc.)
- Airborne (Conventional wetting/bowsers, Mist cannons/atomisers, Green walls/sheeting, Tree planting)
- Ground based (Deep cleaning/sweeping, Water only application, CMA application)
- Resuspension/trackout (Wheel washing, Road sweeping, CMA)
- Position of site entrances and haulage roads (site design)

Mitigation of NRMM

- PM and / or black carbon and / or NO₂?
- Exhaust emissions – DPF's fitted to plant and generators?
- Clean fuels – ultra-low sulphur diesel/LPG 2013
- Generators/power supply
- Site speed limits
- No idling

Mitigation of off-site emissions (away from main source)

- Deliveries/waste material removal logistics (Holding areas, Covered loads/not overfilled, Idling outside site entrance)
- Traffic control – defined access routes
- Staff travel to/from site

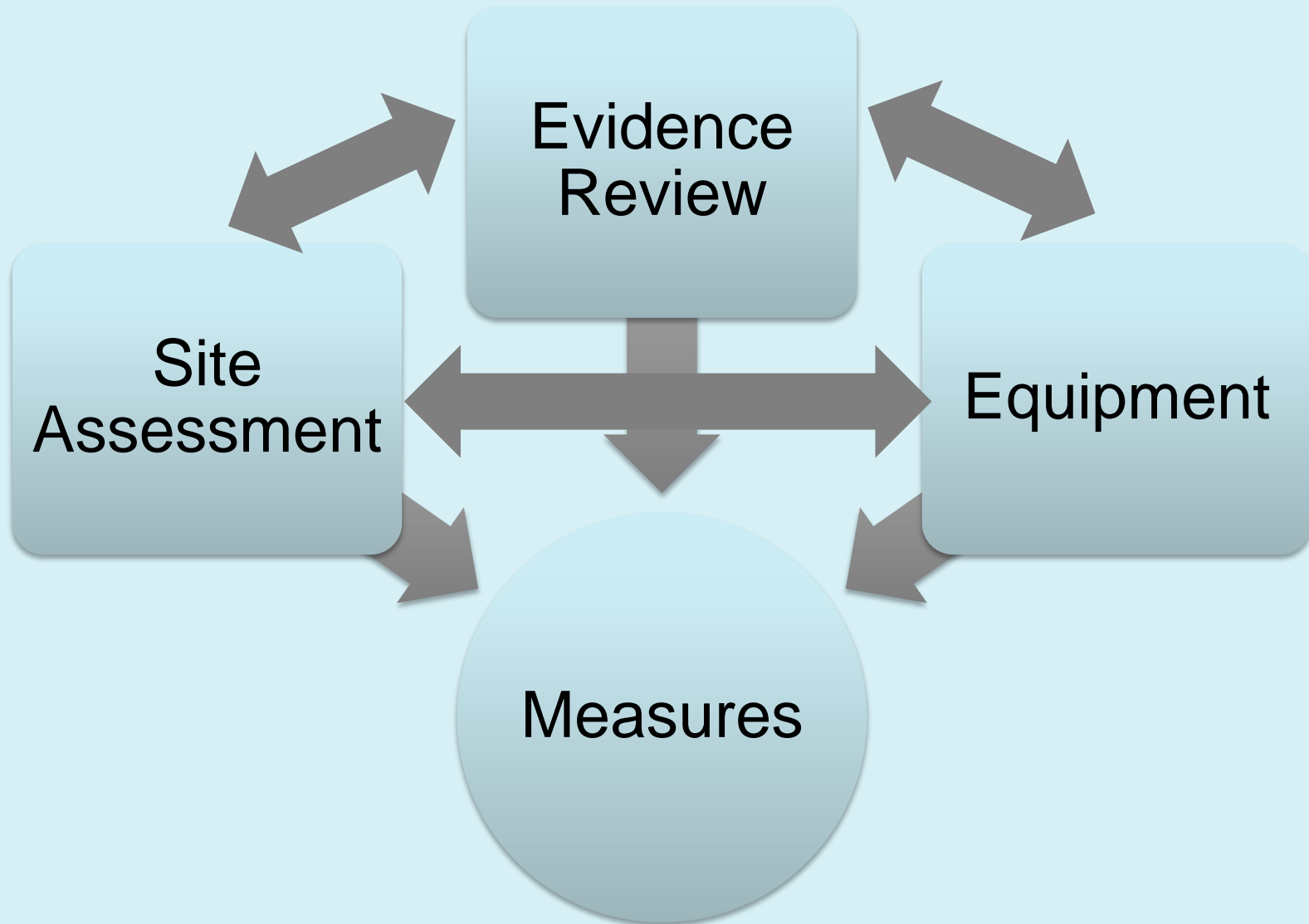
Other measures

- Active feedback
- Education

Equipment

- Project designed to measure PM (and black carbon for DPF)
 - From evidence review is this still what we want to measure?
 - Need to consider what change is detectable (information from evidence review)
 - From available sites is there scope for PM / BC mitigation?
- Estimated eight instruments required to allow studies to be carried out across multiple sites
 - King's College London have supplied two Osiris units
 - LB Camden have supplied one complete Osiris unit
 - From available sites how many to we need?
 - What is available from other LAs?

What measures are in our toolbox?



What Measures?

Measure	Target Cost	Target Usage	Cost Benefit
CMA Application	£167 per site / day	6 sites, 50 priority days per annum	? $\mu\text{g}/\text{m}^3/\text{£}/\text{annum}$
Regenerating Diesel Particle Filters	£8000 each	2	? $\mu\text{g}/\text{m}^3/\text{£}/\text{annum}$
Non-regenerating Diesel Particle Filters	£1000	?	? $\mu\text{g}/\text{m}^3/\text{£}/\text{annum}$
Street / site cleaning with sweepers	£213 / site / day	6 sites, 50 priority days per annum	? $\mu\text{g}/\text{m}^3/\text{£}/\text{annum}$
Green Screens	£300 / metre	?	? $\mu\text{g}/\text{m}^3/\text{£}/\text{annum}$
Site activity feedback web site / app	£10,000 – 20,000	-	? $\mu\text{g}/\text{m}^3/\text{£}/\text{annum}$
On site cycles	?		? $\mu\text{g}/\text{m}^3/\text{£}/\text{annum}$
Freight consolidation	?		? $\mu\text{g}/\text{m}^3/\text{£}/\text{annum}$

LA CONSTRUCTION PROJECTS

London Borough of Camden

- Highways site - road re-surfacing

London Borough of Hammersmith and Fulham

- Westfield Extension – planning application reference: 2013/05115/OUT (can be searched for on LBHF website). Mixed use development.
- Former BBC television centre: 2013/02355/COMB. Mixed use development.
- Hurlingham Retail Park, Wandsworth Bridge Rd: 2013/02870/FUL – Mixed use.
- Seagrave Road (there is not much demolition on this site, mainly excavation). We know they are due to start in July. 2011/02000 and 2013/01213/VAR – Mixed use.
- Kings Mall development
- Earls Court

London Borough of Islington

Unite Stapleton House, Holloway Road

Demolition starts August 2014

London Borough of Lambeth

- Nine Elms
- Thames Tideway Tunnel
- Northern Line Extension
- Shell Centre (Waterloo)

London Borough of Lewisham

Faircharm Industrial Estate – due to start demolition at the end of 2014

London Borough of Wandsworth

- Ram Brewery site
- Christies Warehouse site - Nine Elms
 - Demolition pre-piling in early 2015
- Curtain Street

Project Timelines

Local Authority	Project Title	Developer	Start Date	End Date	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	
Camden	Highways - road resurfacing projects		On-going?		[Red bar spanning Jul-14 to Sep-15]															
Hammersmith and Fulham	Kings Mall development																			
	Former BBC television centre																			
	Hurlingham Retail Park																			
	Seagrave Road				[Orange bar spanning Jul-14 to Sep-14]															
	Westfield Extension																			
Islington	Earl's Court																			
	Unite Stapleton House, Holloway Road	Balfour Beatty	Aug-14 ?		[Yellow bar spanning Aug-14 to Feb-15]										[Yellow hatched bar spanning Mar-15 to May-15]					
	City Road site										[Yellow hatched bar spanning Jan-15 to Feb-15]									
Lambeth	Nine Elms																			
	Thames Tideway Tunnel																			
	Northern Line Extension																			
	Shell Centre (Waterloo)																			
Lewisham	Faircharm Industrial Estate - Creekside		Aug-14 ?		[Green bar spanning Aug-14 to Dec-14]															
Wandsworth	Christies Warehouse site - Nine Elms	Bellway Homes	Jan-15								[Dark blue bar spanning Jan-15 to Sep-15]									
	Market Towers																			
	Curtain Street																			
	Rams Brewery																			

Site Requirements

- Site/project name
- Project description
- Site location
- Site contacts
- Start and finish dates
- Demolition and construction activities/development phases
- Dust management plans and any S106

Desktop Site Assessment Criteria

Project Name:					Rating:	
Assessment Criteria	Weighting			Score		
Start date	3	5	4	3	2	1
Seasonal Impact	2	5	4	3	2	1
Interferences	2	5	4	3	2	1
Onsite activities/construction	3	5	4	3	2	1
Risk of delays	3	5	4	3	2	1
Sensitivity of an area	1	5	4	3	2	1
Existing LAQN measurements	1	5	4	3	2	1
Developer buy-in/match funding	2	5	4	3	2	1
Location	1	5	4	3	2	1

PROJECT PLAN / FINANCE / SCOPE OF WORKS

Updated Project Plan

Area	Name	May-14	Jun-14	Q2 2014	Q3 2014	Q4 2014	Q1 2015	Q2 2015	Q3 2015	Q4 2015	Q1 2016	Q2 2016
Project Monitoring	Kickoff meeting GLA/TfL											
Project Monitoring	Project Team Meeting											
Project Monitoring	Steering Committee Meeting											
Project Monitoring	Develop/review communications strategy for stakeholders											
Project Monitoring	Risk Mapping / review											
Measures	Identification and review evidence (ongoing)											
Measures	Prepare / update developer comms material											
Measures	Developer meetings											
Measures	Measurement site identification and installation											
Measures	Data collection and management (8 sites)											
Measures	Equipment maintenance (8 sites)											
Measures	Application Programme - Planning and management											
Measures	Application Programme											
Measures	Evaluation of impact											
Construction Hub	Scoping											
Construction Hub	Content											
Construction Hub	Build and test											
Construction Hub	Launch											

Key deliverables and invoicing schedule

Area	Deliverables	31/6/2014	30/09/2014	31/12/2014	28/02/2015	31/6/2015	30/09/2015	31/12/2015	29/02/2016
<i>Project Management</i>	Attend kick-off / steering committee meetings	X		X		X		X	X
<i>Project Management</i>	Output communication strategy document	X				X			X
<i>Project Management</i>	Output project risk review document	X				X			X
<i>Measures</i>	Output evidence review document		X			X			X
<i>Measures</i>	Output developer communications material		X				X		
<i>Measures</i>	Attend developer meetings (2-3 per month)	X	X	X	X	X	X	X	X
<i>Measures</i>	Identify and install measurement sites		X	X					
<i>Measures</i>	Collect and disseminate data		X	X	X	X	X	X	X
<i>Measures</i>	Organise annual osiris maintenance	X				X			
<i>Measures</i>	Design, programme and supervise agreed measures		X	X	X	X	X	X	X
<i>Measures</i>	Progress report				X				
<i>Website</i>	Produce design and specification document for web site	X							
<i>Website</i>	Generate and update content for web site		X		X		X		X
<i>Website</i>	Launch web site				X				
Invoice Value		£15,644	£66,040	£64,411	£57,321	£45,339	£45,641	£48,505	£57,099

Q2 2014 Invoice

Q2_2014	Budget		Forecast		Forecast Variance		Budget to Date		Actual to Date		Variance to Date	
Monitoring Staff	£	6,398	£	6,398	£	-	£	6,398	£	6,398	£	-
IT Staff	£	573	£	573	£	-	£	573	£	573	£	-
Developer communications material	£	573	£	-	£	573	£	573	£	-	£	573
Equipment maintenance	£	4,000	£	151	£	3,849	£	4,000	£	151	£	3,849
Emissions abatement measures	£	-	£	-	£	-	£	-	£	-	£	-
Total	£	11,543	£	7,121	£	4,422	£	11,543	£	7,121	£	4,422