



MUDFA Project  
Western Harbour  
Leith Docks  
Edinburgh  
EH6 6QF

Telephone 0131 561 2800  
Facsimile 0131 561 2811  
www.alfredmc Alpineplc.com

Ref: AMIS/tie/letter/AM/Projects/653

3<sup>rd</sup> December 2007

**Mr. Graeme Barclay**  
tie MUDFA Utilities Project Manager  
tie Limited.  
Verity House,  
19 Haymarket Yards,  
Edinburgh.  
EH12 5BH

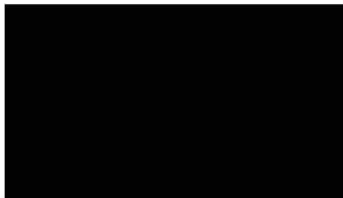
Dear Graeme,

**Subject: MUDFA Alfred McAlpine Infrastructure Services (AMIS) – Contract A150**  
**AMIS MUDFA Project Progress Report (MUDFA) – Contract Requirement 2.46**

I refer to the above referenced contract requirement and have pleasure in forwarding to you the AMIS MUDFA Project Progress Report for the November 2007 period covering the Edinburgh Tram MUDFA Utility construction services.

If you should have any further queries then please do not hesitate to contact me. I look forward to seeing you at the monthly progress meeting scheduled for Thursday 6<sup>th</sup> December 2007 at 10.00 Hrs, Leith Offices, Edinburgh.

Yours sincerely,  
For and on behalf of Alfred McAlpine Infrastructure Services Ltd



Andrew Malkin  
MUDFA AMIS Project Director

**Copies:-**  
tie Project Team  
See Report Distribution

**MUDFA Project Team**  
See Report Distribution  
**AMIS MUDFA Board**

Attachment /... AMIS MUDFA Transmittal No. AMIS/tie/DT/Admin/0436



Alfred McAlpine Infrastructure Services Limited, Registered in England No. 00728599  
Registered Office: Kinnaird House, 1 Pall Mall East, London SW1Y 5AZ

**CEC01523817\_0001**



**MULTI-UTILITY DIVERSION FRAMEWORK  
 AGREEMENT (MUDFA)**  
 Relating to the  
**Edinburgh Tram Network**  
**Contract No. A150**

**ALFRED McALPINE  
 INFRASTRUCTURE SERVICES (AMIS)**  
**DOCUMENT No. A150/PM/PRJ-REP/MUDFA/08**  
**DOCUMENT TITLE :**  
**PROJECT MONTHLY REPORT**  
**NOVEMBER 2007 - MUDFA WORKS**

**VERSION No : 01**

**PAGE : 1 of 18**

**DOCUMENT OWNER : ANDREW MALKIN**

						CODE A, B OR C	
Roddy E. Aves	29.11.07		30.11.07		30.11.07	N/A	N/A
Author	Date	Checked	Date	Approved	Issue Date	Approved	Date
MUDFA AMIS PROJECT TEAM						Tie / Client	



Infrastructure Services



## MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)

### AMIS MUDFA Project Monthly Report – Construction Services

### MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT

### Month 8 – November 2007

#### Contents

1. Executive Summary
2. Health and Safety, CDM, Quality and Environmental
3. SDS Design Interface and Buildability Analysis
4. Operations Management – Reported by Section Against Programme
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6. Construction Planning and Project Controls
7. Contract and Commercial Management
8. Future Business Opportunities & Developments

#### **Appendices :**

1. Construction Services – Programme Overview Progress “S” Curve (1 Page).
2. Construction Services – Monthly Progress Roll-Up Sheet for Live Work Orders (1 Page).

#### **Distribution :**

##### *tie Limited Project Management*

Matthew Crosse, Susan Clark, Steven Bell, Tom Clark, Donna Reid, Brian McCall, Tom Condie, Graeme Walker, Graeme Barclay (Chair), Phil Douglas, Allan Hill, Jim Johnston, Ian Clark, Michael Blake, John Casserly, Jim Ritchie & John McAloon.

##### *AMIS Project Management*

Andrew Malkin, Keith Gourlay, Graeme Strachan, Gil Clelland, Gerry Bannon, Stephen Clemenson, Steven Crosbie, Roddy Aves, Billy Murray, Ian Shanks, Catherine Gick, Rachael Robertson, Taryne Lowe, John Cowan, Ollie Hughes, AMIS Board (Steve Cocliff) & AMIS MUDFA Contract File (38 Copies in Total).



Infrastructure Services



## MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)

### 1. Executive Summary

Alfred McAlpine Infrastructure Services (AMIS) continues MUDFA works on Sections 1A, 1B, 1C, 1D, Morrison Street, 6 and 7A. In the reporting period the earlier than anticipated embargo has restricted inner city working and the AMIS MUDFA resources have been redeployed to Section 1A Constitution Street and other work sites. The current challenge is to organise additional resources to support the planned increase in work activity from January 2008 onwards.

Progress achieved in the period represents accumulative "Actual" of 12.0% (Previous 7.0%, Delta 5.0%) against a "Planned" requirement of 13.0% (Previous 10.0%, Delta 3.0%) overall for all current work sections and worksites. The deviations are attributable to various design, technical, operational constraints and unforeseen circumstances.

Health, Safety and Environmental performance remains positive, despite ongoing concern with utility strikes.

As stated in previous monthly reports the principal AMIS MUDFA concerns relates to the availability and accuracy of Issued For Construction (IFC) detailed utility design drawings, conflict registers, bill of materials (BOM's) and HAZID logs, and the non conformance by tie Limited to the Work Ordering requirements prescribed under the MUDFA terms and conditions.

### 2. Health and Safety, CDM, Quality and Environmental

#### ***Main Achievements Within the Reporting Period***

- No major accidents. Accident Frequency Rate (AFR) = 0.
- One (1 No.) incident reported in reporting period (Princes Street with Mr. John McStravock) and six (6 No.) near misses reported in the period.
- AMIS MUDFA safety inductions all complete and up to date for new starts.
- Archaeology watching brief commenced on Sections 1A and 7A following consultation meeting with Mr. John Lawson (CEC). Headland currently gathering archaeology information at Gogar Mains opening.
- No environmental near misses reported within the reporting period.
- 1 No tie Limited safety inspection carried out on with compliance level of 70-75% being achieved.

## **MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)**

- One-to-One sessions ongoing with all operational team leaders focusing on utility strikes and future expectations for MUDFA (Take 5).
- Agreement reached on reinstatement material selection and specification.
- Safety Stand Down (SSD) completed on 7<sup>th</sup> November 2007 at Next Generation Centre in Leith (Focused on safe digging practice and working on live utilities).
- Improved management of access permits in relation to visual checking and verification of permit status.

### ***Activities Planned for Next Reporting Period***

- One-to-One sessions to continue until all Operations team leaders have been consulted by the Project Director and HSE&Q Manager.
- Continue implementing enforcement and compliance systems via new Safety Coach taking cognisance of 'Take 5' system.
- New Systems Administrator due to commence in next reporting period.
- Continue MUDFA staff and operational safety forums at Leith offices.
- Finalise winterisation preparation and safety call-out protocols for the Christmas and New Year break.
- Process review of Method Statements and Risk Assessments preparation to be carried out in conjunction with **tie** Limited.

### ***Areas of Concern & Key Highlights***

- HAZID Log information being provided for work orders and CDM Coordinator still causes concerns.
- Proposals to increase the number of client personnel within the Leith accommodation requires further clarification and consideration.

## **3. SDS Design Interface and Buildability Analysis**

### ***Main Achievements Within the Reporting Period***

- Revision 02 of the Section 7A Statement of Requirements (SoW) completed and re-issued incorporating **tie** Limited comments; **tie** Limited to action technical approval requirements with SDS Provider (Action – Mr. Ian Clark).
- Commence preparation of Work Orders for lower end of Section 1B (Foot of Leith Walk) and Section 7B (Edinburgh Airport) upon receipt of proposals from Jacobs Engineering.

## **MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)**

- Conduct technical and commercial audit on outstanding work orders to minimise AMIS MUDFA commercial exposure.
- Parts of Section 1A Work Order cancelled from MUDFA scope of works (Newhaven Road to North Leith Sands) as advised during Revision 06 Final programme review.

### ***Activities Planned for Next Reporting Period***

- Finalise Work Order proposals for Sections 1B (North Section), 1C Enabling Works and 1D MUDFA Construction works.
- Commence estimating and detailed planning support for the design and build of Section 7B utilities protection and diversion works involving BAA, Edinburgh Engineering Interface and operational requirements (Section 7B).
- Promote the co-ordination and interface management of St. Andrew Square enabling works to support the Programme, Revision 06.

### ***Areas of Concern & Key Highlights***

- The utility design definition, detail and lateness remain a major concern for AMIS MUDFA especially having just released Construction Services, Revision 06 (Including other design support information).

## **4. Operations Management**

### **Construction Services**

#### **4.1.1 Section 1A**

##### ***Main Achievements Within the Reporting Period***

- In the four week reporting period AMIS MUDFA has recommenced working in Section 1A to complete the three (3 No.) water crossings, remedial works and installation of the Forth Ports water meter adjacent to Casino Square. This has been allowed during the embargo period as approved by Forth Ports Plc (AMIS MUDFA works started using CVI's).
- Section 1A – Water Jetting, CCTV Sewer and Manhole Surveys not continued in period.
- Section 1A Constitution Street – Water Jetting and CCTV Sewer Surveys carried out successfully on 18<sup>th</sup> November 2007.



Infrastructure Services



## MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)

### **Activities Planned for Next Reporting Period**

- Commence trial hole investigations in Constitution Street (55 no.) between Tower Street and Duke Street. The traffic management proposals have been approved by all stakeholders (AMIS MUDFA works started using CVI's).

### **Areas of Concern & Key Highlights**

- **tie** Limited to advise interface, participants and demarcation between utility works out with Constitution Street due to commence Monday 7<sup>th</sup> January 2008 (i.e. Elbe and Academy Roads).

### **4.1.2 Section 1B**

#### **Main Achievements Within the Reporting Period**

- In the four week reporting period AMIS MUDFA continues with Trial Hole Investigations in order to support design validation, and withdrawal of the central reservation moving southbound towards the London Road Roundabout area.
- BT Chambers at Jane Street (i.e. Major telecommunications chamber and connection point in Section 1B) continues overcoming a variety of technical utility challenges (Current RAT's Status 40.0% Actual and 68.0% Planned).
- Pilrig Street Junction crossing traffic management plans approved with full support of all Edinburgh Stakeholder, particularly Lothian Buses (Completion Milestone 14<sup>th</sup> December 2007).
- Section 1B overall Construction Services accumulative "Actual" progress of 31.0% against a "Planned" requirement of 39.0% for work order 1B/WSI/001/001 within Section 1B has been achieved (Delta Movement Actual 15.0% and Planned 10.0% in period and recovering). AMIS MUDFA has experienced difficulty in terms of utility clearance and installation and will address technical changes with SDS Provider.
- Section 1B – 7 No. Manholes not found during investigation works (i.e. 9903, 9814, 9915, 9811, 9904, 8706 & 5106) and are at deviance to the SDS Provider drawings.

#### **Activities Planned for Next Reporting Period**

- Carry out and complete the utility Construction Services work at Pilrig Junction with Stakeholder expectations and timescales a critical requirement of AMIS MUDFA Operations.
- Critical Milestone for 2007 (Target) – Complete the main BT Chamber works and slewing operations at Jane Street (Dedicated plans in place to recover and complete the works).

## MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)

- Continue with the Construction Services works between North of the rail bridge and Balfour Street and review extending the technical and operational requirements associated with the laying of the gas and water mains to increase production and to recover programme.
- Increase resource allocation by 30-50% in January 2008 to recover programme and progress the extended Works at Leith Walk.
- Complete removal and temporary road reinstatement of the central reservation down the centre line of Leith Walk including London Road roundabout.

### **Areas of Concern & Key Highlights**

- Excessive underground congestion of utilities and impact on cost and timescales.
- Businesses and stakeholders pressures constraining and impacting upon progress.
- Concerns regarding volume work restrictions imposed by Traffic Management Panel regime.

### **4.1.3 Section 1C**

#### **Main Achievements Within the Reporting Period**

- In the four week reporting period 5 No. actual Trial Hole Investigations were completed against a planned requirement of 5 No. to support design validation prior to the earlier than anticipated embargo period (i.e. Harvey Nicks). The remaining 13 No. Trial Hole Investigations will be completed in January 2008 (Note - Imposed delay).
- Princes Street MUDFA utility crossings are 90.0% complete (4.5 No. Actual against 5.0 No Planned) (Note –Imposed delay).
- 30 No. actual Trial Hole Investigations were completed against a planned requirement of 30 No. to support design validation prior to the earlier than anticipated embargo period in Shandwick Place (Note – Imposed delay).

#### **Activities Planned for Next Reporting Period**

- MUDFA utility diversion construction works will recommence in mid-January 2007 following the embargo period.

### **Areas of Concern & Key Highlights**

- Non completion of the St. Andrew Square Trial Hole Investigations may impact on the timely commencement of MUDFA Utility works relating to BT Openreach.
- **tie** Limited to address technical and specification requirements associated with the St. Andrew Square enabling works and integrated traffic management requirements (i.e. Critical to the delivery of Programme revision 06).



## MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)

- Traffic management, planning and enabling works definition to be provided for Hope Street, Charlotte Square, George Street, Market Street and Fredrick Street.

### 4.1.4 Section 1D

#### ***Main Achievements Within the Reporting Period***

- 16 No. actual Trial Hole Investigations were completed against a planned requirement of 16 No. in Morrison Street to support design validation prior to the embargo period (Note – Thanks received from City of Edinburgh Council - CEC).

#### ***Activities Planned for Next Reporting Period***

- Investigations into the impact and dependencies of the Infraco Contractor programme and mobilisation timings.

#### ***Areas of Concern & Key Highlights***

- Consideration to be given to integrated construction works with INFRACO at Haymarket Junction due to the scale and complex nature of the road junction.
- Lothian Road Junction remains a major concern. AMIS MUDFA developed plans for diversion routes around Charlotte Square for implementation by tie Limited.
- Review of Morrison Street trial hole investigation results by others (Action – tie Limited).

### 4.1.5 Section 2

#### ***Main Achievements Within the Reporting Period***

- There were no planned MUDFA utility construction works within the reporting period.

#### ***Activities Planned for Next Reporting Period***

- AMIS MUDFA to consider carrying out MUDFA utility diversion construction works on a RAT's proposal basis in the next reporting period if SDS Provider design not available.
- Revisit Manhole Survey to locate MH 8106 following SDS Provider consultation.

#### ***Areas of Concern & Key Highlights***

- Nothing to report in period.

### 4.1.6 Sections 3A, 3B & 3C

#### ***Main Achievements Within the Reporting Period***

- Edinburgh Tram Line 2 MUDFA construction works has been deferred until the completion of Line 1 due to funding restrictions.



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## MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)

### **Activities Planned for Next Reporting Period**

- There is no MUDFA utility diversion construction works planned until further confirmation by **tie** Limited.

### **Areas of Concern & Key Highlights**

- Construction Services delay in relation to AMIS turnover and loss of overhead recovery has been addressed as part of the commercial agreement.

### **4.1.7 Section 4**

The MUDFA utility works within Section 4 is expected to be carried out by others as a future Edinburgh Tram development (i.e. Out with current scope of work).

### **4.1.8 Sections 5A, 5B & 5C**

#### **Main Achievements Within the Reporting Period**

- AMIS MUDFA Construction Services carried out using EEC to complete the outstanding works using a floating CCTV camera (Issues addressed).

#### **Activities Planned for Next Reporting Period**

- Section 5B novation to INFRACO to be formally confirmed by **tie** Limited.
- Section 5A – AMIS MUDFA still trying to locate large brick sewer in Network Rail Depot drive and 2 No. Manholes found in area and are not 0801 and 0803 as per the SDS Drawings.

#### **Areas of Concern & Key Highlights**

- Consideration to be given to Schedule 13 stakeholder requirements for January 2008.

### **4.1.9 Section 6**

#### **Main Achievements Within the Reporting Period**

- Completed RAT's solutions on 650 metres of 250 mm ductile iron water main and Cable & Wireless to mitigate cost escalations on behalf of **tie** Limited (Note – **tie** Limited have not provided full design details from SDS Provider – Expected Monday 20<sup>th</sup> August 2007).
- Delivery completed for all lengths 800 mm Dia. Water Mains and successfully stored at site.
- Completed 2 No. 33kV power systems diversions, jointed and re-energised.
- No Construction services work commenced on the 800 mm Dia. Water Mains due to the non availability of SDS Provider technical and design information.

## **MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)**

- Gogar Mains mass earthworks, site demobilisation, area completion and handover to tie Limited completed on Tuesday 13<sup>th</sup> November 2007 (See Gogar Report).

### ***Activities Planned for Next Reporting Period***

- Complete testing of 250 mm Dia. water main to specified test pressure in preparation for tie-in.

### ***Areas of Concern & Key Highlights***

- tie Limited to provide copies of the Gogar depot management procedures for access and works controls for AMIS MUDFA review.
- tie Limited to obtain outstanding SDS Provider design information for remaining MUDFA utility works.
- AMIS MUDFA to review and address potential cost escalations in final account.

#### **4.1.10 Section 7A**

##### ***Main Achievements Within the Reporting Period***

- Section 7A Statement of Requirements (SoR) document updated in line with the tie Limited and SDS Provider Record of Review (RoR) comments.
- Section 7A Statement of Requirements (SoR) document converted into an official Work Order No. 7AWSI002/001 issued on 22<sup>nd</sup> November 2007 by AMIS MUDFA.
- MUDFA utility construction works commenced on 26<sup>th</sup> November 2007 at Gogar Mains Farm Road (i.e. 1 No. late to programme Revision 06 Draft – Access Permits).

##### ***Activities Planned for Next Reporting Period***

- Continue and complete all possible Section 7A MUDFA Utility construction services and prepare "As-Built" package, area completion certificate and final account estimate for joint review with tie Limited.
- Ensure Archaeological brief and key aspects are fully complied with during the "Hot-Spot" excavations at Gogar Mains (i.e. Cabinet Makers area).

##### ***Areas of Concern & Key Highlights***

- Schedule 13 Stakeholder requirements, Access Permits and Operating Licence should have been made available earlier.

## MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)

### 4.1.11 Section 7B

#### ***Main Achievements Within the Reporting Period***

- Section 7B Statement of Requirements (SoR) document updated to Revision 02 incorporating **tie** Limited and SDS Provider Record of Review (RoR) comments. The document has been issued to Jacobs Engineering for review and tendering purposes complete with NEC Form "Orange Book" tendering requirements.
- There was no MUDFA utility construction works planned within the reporting period (Schedule to commence April 2008).
- Section 7B Workshops Part 1 and 2 were not completed in the reporting period and is considered important in relation to MUDFA timescale and delivery (Action – Mr. Ian Clark **tie** Limited).

#### ***Activities Planned for Next Reporting Period***

- Complete BAA Edinburgh site and safety inductions and carry out site surveys at Airport and Eastfield Avenue (Action – **tie** Limited, AMIS MUDFA and Jacobs Engineering).
- Convene Workshops Part 1 and finalise all agreements of responsible stakeholders in the project, including SUC approvals.
- Complete draft technical and commercial proposal (Budget price) from Jacobs Engineering for design and engineering services on Section 7B.

#### ***Areas of Concern & Key Highlights***

- Jacobs Engineering site survey time to be recovered during the tendering phase (Action – Mr. John Casserly **tie** Limited).

### 4.2 Traffic Management

#### ***Main Achievements Within the Reporting Period***

- Traffic Management plans for Section 1B (Leith Walk) incorporating larger sites has been approved (See new plans and layouts by Class One).
- Completed Traffic Management Plans for Trial Hole investigation and road crossings on Sections 1C and 1D (Princes Street and Shandwick Place).
- Police Lay-by at Gogar Depot (Section 6) reopened.
- Traffic Management inner city logic, proposals, enabling works and phasing for The Mound, Lothian Road Junction, Shandwick Place, Charlotte Square, etc to be implemented by **tie** Limited, Stakeholders and AMIS MUDFA accordingly to support January 2008 MUDFA operations.



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## MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)

### **Activities Planned for Next Reporting Period**

- Consider MUDFA and INFRACO inter-dependencies in future traffic management planning (Action – tie Limited to lead initiative).
- Install revised Leith Walk wide area signage as per tie Limited change requests.
- Continue traffic plan preparation and approvals in support of the works in the inner city section as per the traffic management sign-off sheets.

### **Areas of Concern & Key Highlights**

- Continue traffic plan discussions in advance of formal submissions and improve adherence to Traffic Management Plans and requirements.

## **4.3 Materials, Supply Chain Management & Site Services**

### **Main Achievements Within the Reporting Period**

- 500 metres of 800mm Dia. Ductile Iron Water Main delivered to Gogar Depot in full (Action – tie Limited).
- Bill of Materials (BOM's) from SDS Provider will assist AMIS MUDFA to establish material quantities required for construction services (Action – tie Limited).

### **Activities Planned for Next Reporting Period**

- No specific or special procurement requirements are envisaged in the next reporting period.
- In the lead up to the year end GAP will be instructed to off-hire a number of the plant and equipment items.

### **Areas of Concern & Key Highlights**

- No early visibility of Bill of Materials (BOM's) with materials being purchased at risk.

## **5. Communications and Stakeholders**

### **Main Achievements Within the Reporting Period**

- Attendance at tie Limited frontager, Leith Walk retailer community and Edinburgh Retail Committee meetings ongoing.
- AMIS MUDFA attending the stakeholder planning meetings and tie Limited Communications Forum (Note – Chair Mr. Mike Connelly).

## **MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)**

- Weekly communication meetings continue between **tie** Limited and AMIS MUDFA teams with integrated working and weekly attendance at Traffic Management Review Panel meetings.
- 10 No. customer complaints received in association with the closure of McDonald Road and Jane Street. The AMIS MUDFA Tram Helpers have dealt with the key issues to the satisfaction of all concerned.
- 17 No. customer inquiries and general requests for information were sought via telephone, special needs card and e-mail.
- Media interest surrounding Jane Street road diversion and the electrical earthing notices.
- Additional AMIS MUDFA Tram Helpers recruited to commence in January 2008 namely Ms. Janet Bradley and Keith McCall.

### ***Activities Planned for Next Reporting Period***

- Leith Walk retailer community assistance being provided by AMIS MUDFA in the form of leaflets and flyers for regular customers whilst Construction Services work causes minor disruptions.
- Schedule 13, 3<sup>rd</sup> Party stakeholder agreements to be reviewed with specific attention being given to the retailer requirements associated with advertising and ongoing construction operations and planned notifications.
- Regular meetings with Facilities Managers to be established in January 2008.
- Training day for the AMIS MUDFA Tram helpers in conjunction with **tie** Limited in relation to the handling of the general public, media challenges and completion of risk appraisals for Tram helpers (January 2008).
- Ongoing support to AMIS MUDFA Operations teams at all worksite locations.

### ***Areas of Concern & Key Highlights***

- Last minute changes to work schedules impacting on customer notifications already issued, or contravening the four week published lead in cycle.

## **6. Construction Planning and Project Controls**

### ***Main Achievements Within the Reporting Period***

- **tie** Limited and Stakeholder Constrained Programme, Revision 06 (Final) finalised complete with explanation notes and supporting information.
- In the four week reporting period up to and including the monthly report cut-off date of Friday 30<sup>th</sup> November 2007 AMIS MUDFA has achieved accumulative

## **MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)**

"Actual" progress of 12.0% against a "Planned" requirement of 13.0% (Live Work Orders) overall for all current work sections and worksites. The deviation of Actual 5.0% and Planned 3.0% is attributable to several design, technical and operational factors, although the actual progress is starting to show recovery over the reporting period (See Appendices 1 and 2). In the reporting period the delta has been reduced from 3.76% (as shown in last months report) to 2.0% in this reporting period.

- Programmes in P5 XER format are being issued to **tie** Limited on a weekly basis.
- Anticipated Final Account (AFA) has been fully integrated in the P5 master programme, including the allocation of Prime Costs and Sums.
- AMIS MUDFA Operations interactive planning sessions continued on a regular basis, specifically with regards to Jane Street.

### ***Activities Planned for Next Reporting Period***

- **tie** Limited and AMIS MUDFA to approve Construction Services Programme at Revision 06 and undertake stakeholder reviews and pre-enabling works actions.
- P5 Programme detailed development and cost resourcing will continue once SDS Provider utility design details are received from SDS Provider.
- Detail Level 3 integrated programmes for plates 22-26 (bottom end of Leith Walk) to support ongoing work order preparations.
- Complete review of Schedule 13, 3<sup>rd</sup> Party agreements and impact on planning and ongoing operations (i.e. Embargoes and operating constraints).

### ***Areas of Concern & Key Highlights***

- Availability of accurate utility design technical definition and associated design details to support detailed planning and cost estimating to meet **tie** Limited expectations.

## **7. Contract and Commercial Management**

### ***Main Achievements Within the Reporting Period .***

- AMIS MUDFA change control issues being progressively identified. AMIS MUDFA estimated value £8,948,965.57; subject to review.
- AMIS MUDFA payment application (No.12) for £13,251,674.59 submitted for review and certification due in the period between 3<sup>rd</sup> and 13<sup>th</sup> December 2007, with payment due by 21<sup>st</sup> December 2007.



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## **MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)**

- AMIS MUDFA preliminaries to be revisited to support agreed Construction Services, Revision 06 following Steven Bell and Steve Hudson final agreement.

### ***Activities Planned for Next Reporting Period***

- The commercial agreement and MUDFA Contractor Incentivisation Proposals remain to be resolved following confirmation that shared trenching applies to the Incentivisation Agreement.
- **tie** Limited and AMIS MUDFA to finalise and bind all commercial agreements for formal execution.
- Resolution and execution of MUDFA Contract Agreement in relation to Schedule 4 (i.e. Bill of Quantities and agreed Addendum to Preambles to reflect AMIS MUDFA CARP submission).

### ***Areas of Concern & Key Highlights***

- Non Conformance Report Ref; 005 raised against **tie** Limited following their non compliance of the provisions relating to Clauses 8.8 and 8.9 of the MUDFA terms and conditions; Work Ordering. £4,711,676.43 of Works assessed as underway without appropriate authorisation and approval via Work Order Confirmation Notice (WOCN).
- The ongoing non adherence to Clauses 8.8 (Work Order protocol) and 8.9 (Work Order Requirements) compromise the fundamental principles of the MUDFA terms and conditions and impact in all aspects of the Contract delivery.
- Payment Certificate No. 10 for the period ending 25<sup>th</sup> September 2007, in the total amount of £2,083,103.86, was received on the 24<sup>th</sup> October 2007, eight days after the due date; interest charges circa £3,500.
- Incorporation of **tie** Limited Statutory Utility Company agreements into the MUDFA Contract under Clause 46 (Still outstanding).
- Magnitude of change deemed excessive when measured against the Tender programme, Schedule 4 Bill of Quantities, and the IFC design drawings by SDS Provider (i.e. Incorrect, inaccurate and insufficient).
- Development of a jointly agreed "Method of Measurement" considered critical to commercial success and to alleviate protracted arguments and dispute resolution action; negative response received to AMIS MUDFA proposal, letter Ref; AMIS/tie/letter/KAG/Projects/517 dated 19<sup>th</sup> October 2007 refers, despite previous support and acknowledgement at Monthly Progress meetings.





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## **MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)**

- Change Control correspondence being generated by tie Limited, as opposed to the agreed protocol of discussing the issues at weekly and/or adhoc meetings.

### **8. Future Business Opportunities & Developments**

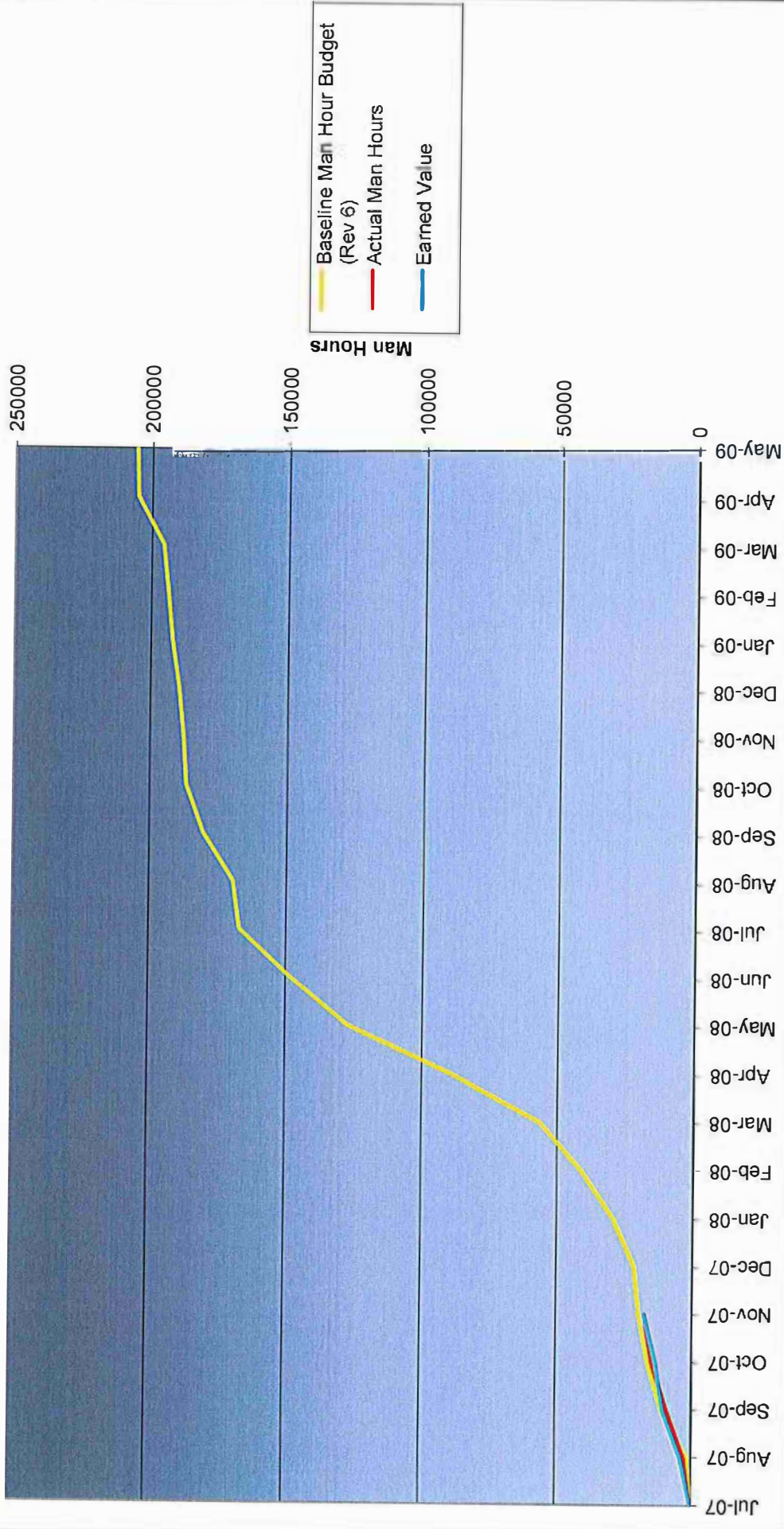
- Potential INFRACO Civil / Track Form construction works (£140 to 160 Million).
- St. David Street (North/South): Approximately £950k (Under Review).
- Cable Jointing and Cap Ending (CDM Obligation): Approximately £1.0M.

#### **Appendices :**

1. Construction Services – Programme Overview Progress “S” Curve (1 Page).
2. Construction Services – Monthly Progress Roll Up Sheet for Live Work Orders (1 Page).



**Programme Overview**  
**23rd November 2007**



## MUDFA

### Current Progress Roll-Up Sheet

### *Trams for Edinburgh*

### Live Work Order Progress

Month Ending November 2007

		Planned Start	Planned Finish	Actual / Forecast Start	Actual / Forecast Finish	Percentage Complete	Planned Percentage Complete	SPI	Comments
Trial Holes	All Areas	30/07/2007	21/10/2007	30/07/2007	03/12/2007	83	83	1.00	197 currently planned, more may be done.
Work Site - 1A WSI 003/001	Rennies Isle Bridge to Tower Street	09/07/2007	10/10/2007	16/07/2007	19/10/2007	100	100	1.00	Works Complete
Work Site - 1B WSI 001/001	McDonald Road to Balfour Place	03/09/2007	12/10/2008	03/09/2007	10/07/2008	31	39	0.79	Recovery will occur in December
Work Site - RaT 1B-1	Jane Street BT Chamber	17/10/2007	15/01/2008	17/10/2007	04/02/2008	40	68	0.59	Recovery Plan in Place
Work Site - 1C WSI 001/002	The Mound to Castle Street (E)	12/11/2007	05/02/2008	12/11/2007	05/02/2008	50	50	1.00	Crossings Complete
Work Site - 1D WSI 005/002	South Charlotte St to Castle Street (E)	12/11/2007	28/01/2008	12/11/2007	28/11/2008	50	48	1.04	Crossings Complete
Work Site - 5A WSI 008/002	Roseburn Street to Russell Road	20/08/2007	05/11/2007	21/08/2007	28/09/2007	100	100	1.00	Works Complete
6A Gogarburn (Phase 1, 2 & MUDFA)	Gogarburn Depot	16/04/2007	28/01/2008	16/04/2007	18/01/2008	100	99	1.01	Testing of Main outstanding
Work Site - 7A WSI 002/001	Gogarburn to Ingliston Park & Ride	26/11/2007	28/02/2008	26/11/2007	31/01/2008	5	5	1.00	On Target
<b>Overall Progress (Live + AFA)</b>									
MUDFA Overall Programme		16/04/2007	14/11/2008	16/04/2007	14/11/2008	12	13	0.92	