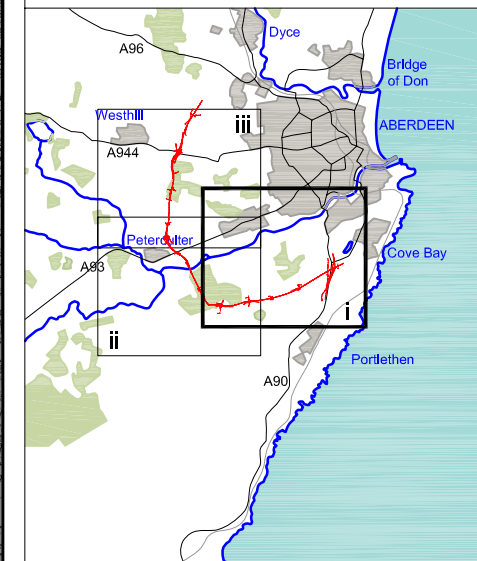


FIGURE 24.7di



- LEGEND**
- Proposed Centreline of Route (Engineering Profile 04/05/07)
  - Direction of Flow
  - Watercourses
  - Waterbody
  - Watercourses Outside Model Extent
  - Waterbody Outside Model Extent
  - Point of Interest
  - Proposed AWPR Outfall

\* There are no published EQS values for the suspended solids. Evidence was taken from SNH on the tolerance of freshwater pearl mussels and set at 30mg/l

Rev	Date	Purpose of Revision	Drwn	Chkd	Appd

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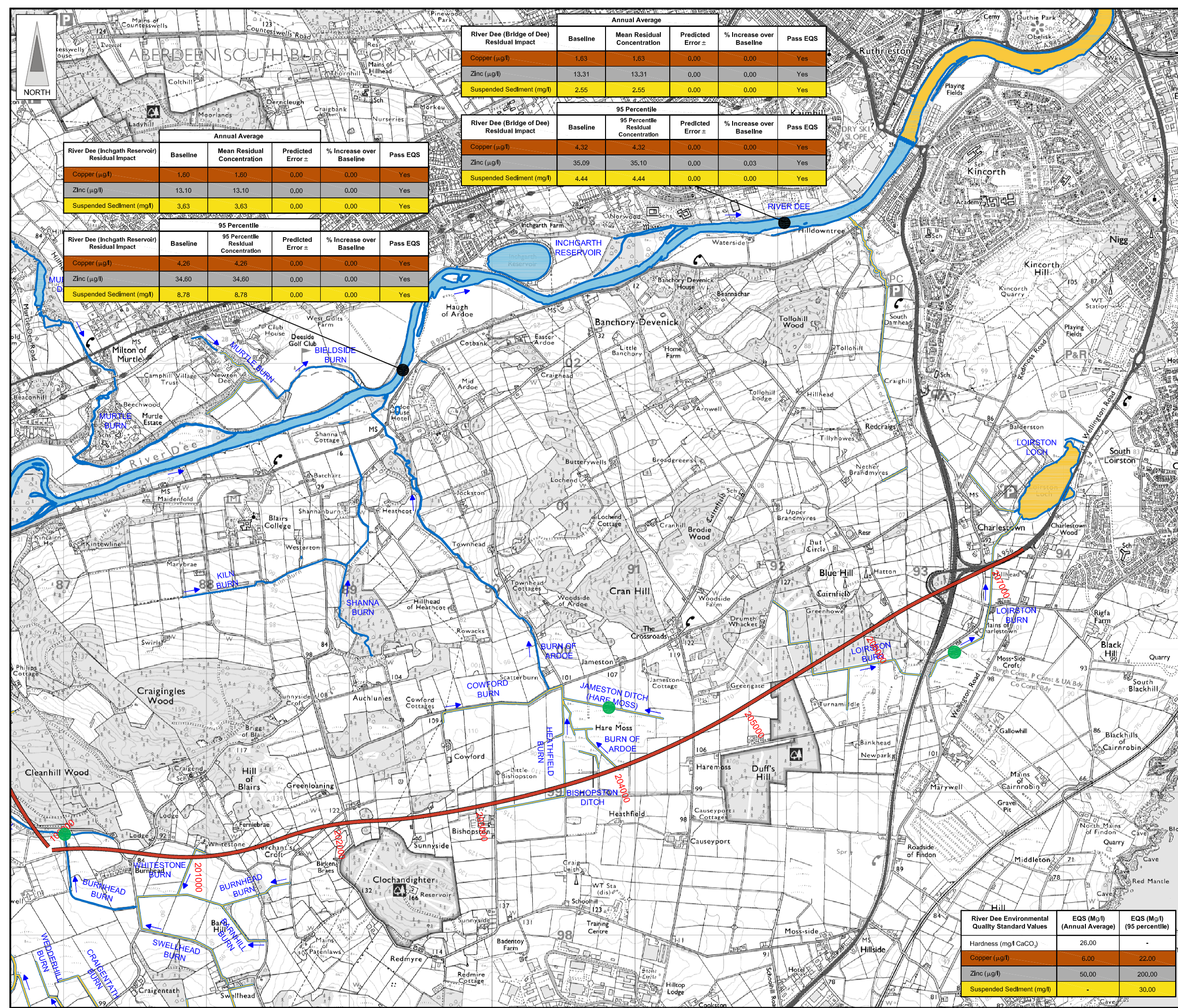
Client: **Aberdeen Western Peripheral Route**

Project: **Aberdeen Western Peripheral Route Environmental Statement, Part C - Southern Leg**

Title: **Water Quality Modelling - With Mitigation, Residual Impact Sheet 1 of 3**

Drawing Status	FINAL	Revisions	
JB No.	0010332	Date	July 2007
Figure No.	FIGURE 24.7di	Approved	SH
Scale	1:25,000	Checked	DR

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River Dee (Bridge of Dee) Residual Impact	Annual Average				
	Baseline	Mean Residual Concentration	Predicted Error ±	% Increase over Baseline	Pass EQS
Copper (µg/l)	1.63	1.63	0.00	0.00	Yes
Zinc (µg/l)	13.31	13.31	0.00	0.00	Yes
Suspended Sediment (mg/l)	2.55	2.55	0.00	0.00	Yes

River Dee (Bridge of Dee) Residual Impact	95 Percentile				
	Baseline	95 Percentile Residual Concentration	Predicted Error ±	% Increase over Baseline	Pass EQS
Copper (µg/l)	4.32	4.32	0.00	0.00	Yes
Zinc (µg/l)	35.09	35.10	0.00	0.03	Yes
Suspended Sediment (mg/l)	4.44	4.44	0.00	0.00	Yes

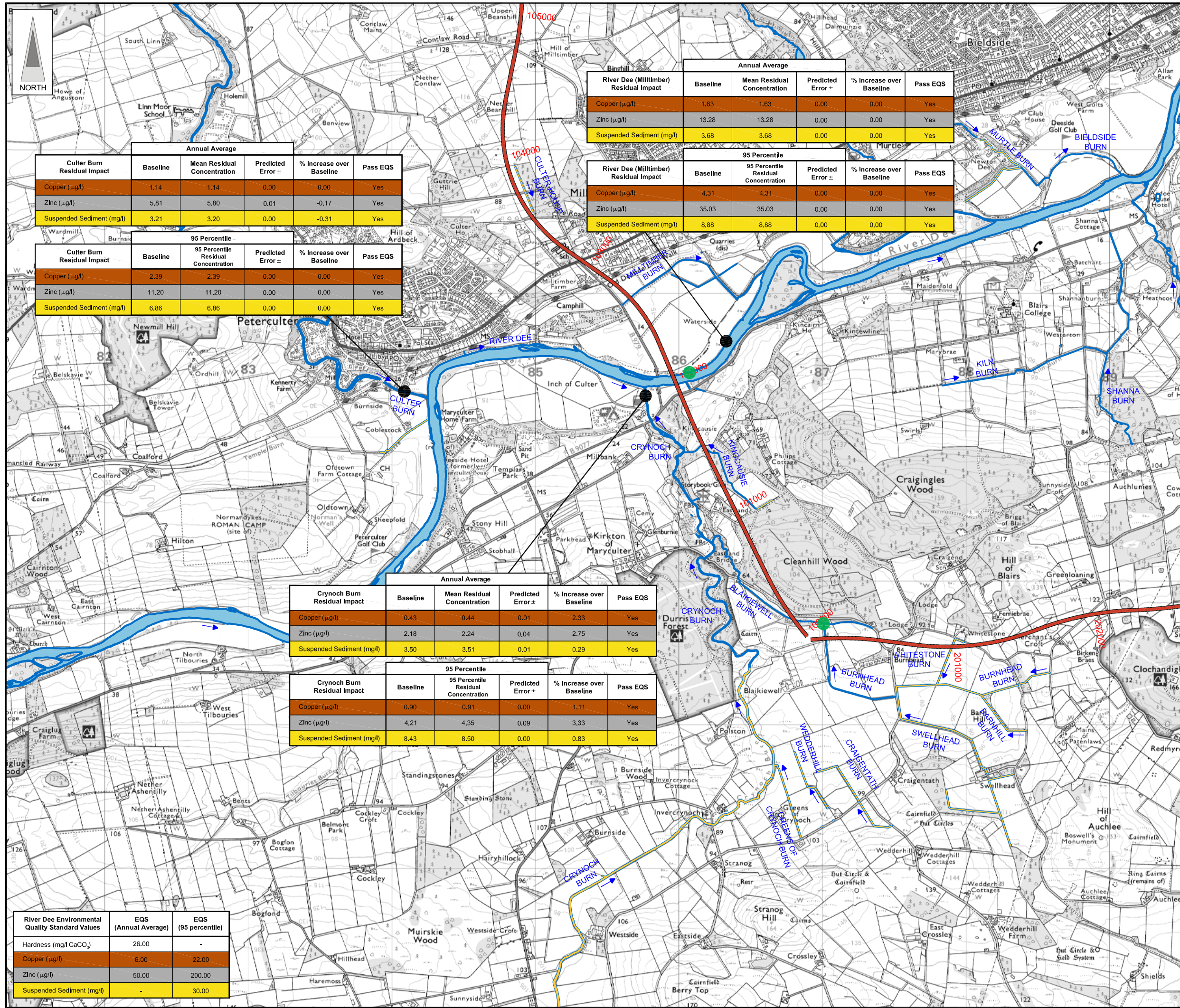
River Dee (Inchtargh Reservoir) Residual Impact	Annual Average				
	Baseline	Mean Residual Concentration	Predicted Error ±	% Increase over Baseline	Pass EQS
Copper (µg/l)	1.60	1.60	0.00	0.00	Yes
Zinc (µg/l)	13.10	13.10	0.00	0.00	Yes
Suspended Sediment (mg/l)	3.63	3.63	0.00	0.00	Yes

River Dee (Inchtargh Reservoir) Residual Impact	95 Percentile				
	Baseline	95 Percentile Residual Concentration	Predicted Error ±	% Increase over Baseline	Pass EQS
Copper (µg/l)	4.26	4.26	0.00	0.00	Yes
Zinc (µg/l)	34.60	34.60	0.00	0.00	Yes
Suspended Sediment (mg/l)	8.78	8.78	0.00	0.00	Yes

River Dee Environmental Quality Standard Values	EQS (Mg/l) (Annual Average)	EQS (Mg/l) (95 percentile)
Hardness (mg/l CaCO <sub>3</sub> )	26.00	-
Copper (µg/l)	6.00	22.00
Zinc (µg/l)	50.00	200.00
Suspended Sediment (mg/l)	-	30.00

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FIGURE 24.7dii



Culter Burn Residual Impact	Annual Average				Pass EQS
	Baseline	Mean Residual Concentration	Predicted Error ±	% Increase over Baseline	
Copper (µg/l)	1.14	1.14	0.00	0.00	Yes
Zinc (µg/l)	5.81	5.80	0.01	-0.17	Yes
Suspended Sediment (mg/l)	3.21	3.20	0.00	-0.31	Yes

River Dee (Millitimer) Residual Impact	Annual Average				Pass EQS
	Baseline	Mean Residual Concentration	Predicted Error ±	% Increase over Baseline	
Copper (µg/l)	1.63	1.63	0.00	0.00	Yes
Zinc (µg/l)	13.28	13.28	0.00	0.00	Yes
Suspended Sediment (mg/l)	3.68	3.68	0.00	0.00	Yes

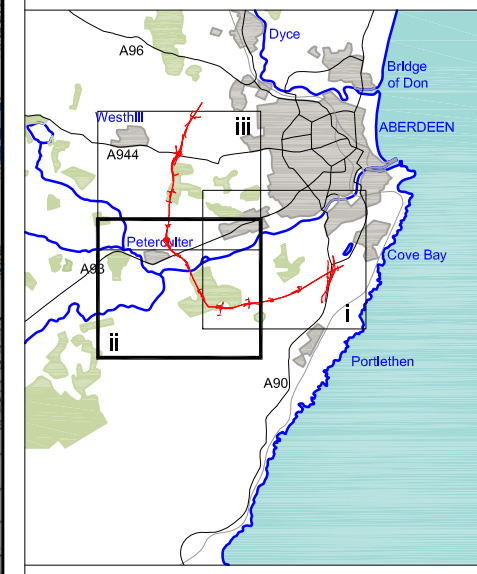
River Dee (Millitimer) Residual Impact	95 Percentile				Pass EQS
	Baseline	95 Percentile Residual Concentration	Predicted Error ±	% Increase over Baseline	
Copper (µg/l)	4.31	4.31	0.00	0.00	Yes
Zinc (µg/l)	35.03	35.03	0.00	0.00	Yes
Suspended Sediment (mg/l)	8.88	8.88	0.00	0.00	Yes

Culter Burn Residual Impact	95 Percentile				Pass EQS
	Baseline	95 Percentile Residual Concentration	Predicted Error ±	% Increase over Baseline	
Copper (µg/l)	2.39	2.39	0.00	0.00	Yes
Zinc (µg/l)	11.20	11.20	0.00	0.00	Yes
Suspended Sediment (mg/l)	6.86	6.86	0.00	0.00	Yes

Crynoch Burn Residual Impact	Annual Average				Pass EQS
	Baseline	Mean Residual Concentration	Predicted Error ±	% Increase over Baseline	
Copper (µg/l)	0.43	0.44	0.01	2.33	Yes
Zinc (µg/l)	2.18	2.24	0.04	2.75	Yes
Suspended Sediment (mg/l)	3.50	3.51	0.01	0.29	Yes

Crynoch Burn Residual Impact	95 Percentile				Pass EQS
	Baseline	95 Percentile Residual Concentration	Predicted Error ±	% Increase over Baseline	
Copper (µg/l)	0.90	0.91	0.00	1.11	Yes
Zinc (µg/l)	4.21	4.35	0.09	3.33	Yes
Suspended Sediment (mg/l)	8.43	8.50	0.00	0.83	Yes

River Dee Environmental Quality Standard Values	EQS (Annual Average)	EQS (95 percentile)
Hardness (mg/l CaCO <sub>3</sub> )	26.00	-
Copper (µg/l)	6.00	22.00
Zinc (µg/l)	50.00	200.00
Suspended Sediment (mg/l)	-	30.00



- LEGEND**
- Proposed Centreline of Route (Engineering Profile 04/05/07)
  - Direction of Flow
  - Watercourses
  - Waterbody
  - Watercourses Outside Model Extent
  - Waterbody Outside Model Extent
  - Point of Interest
  - Proposed AWPR Outfall

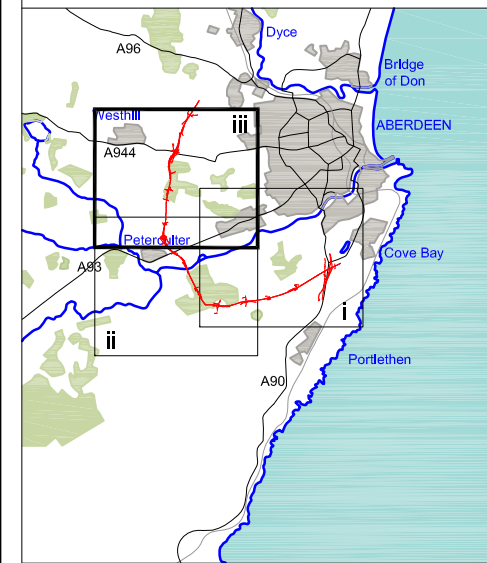
\* There are no published EQS values for the suspended solids. Evidence was taken from SNH on the tolerance of freshwater pearl mussels and set at 30mg/l

Rev	Date	Purpose of Revision	Drwn	Chkd	Appd

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Client	Aberdeen Western Peripheral Route				
Project	Aberdeen Western Peripheral Route Environmental Statement, Part C - Southern Leg				
Title	Water Quality Modelling - With Mitigation, Residual Impact Sheet 2 of 3				
Drawing Status	FINAL	Revisions			
JB No.	0010332	Date	July 2007	Approved	SH
Figure No.	FIGURE 24.7dii	Checked	DR	Approved	SH
Scale	1:25,000	Checked	DR	Approved	SH

FIGURE 24.7diii



- LEGEND**
- Proposed Centreline of Route (Engineering Profile 04/05/07)
  - Direction of Flow
  - Watercourses
  - Waterbody
  - Watercourses Outside Model Extent
  - Waterbody Outside Model Extent
  - Point of Interest
  - Proposed AWPR Outfall

\* There are no published EQS values for the suspended solids. Evidence was taken from SNH on the tolerance of freshwater pearl mussels and set at 30mg/l

Rev	Date	Purpose of Revision	Drwn	Chkd	Appd

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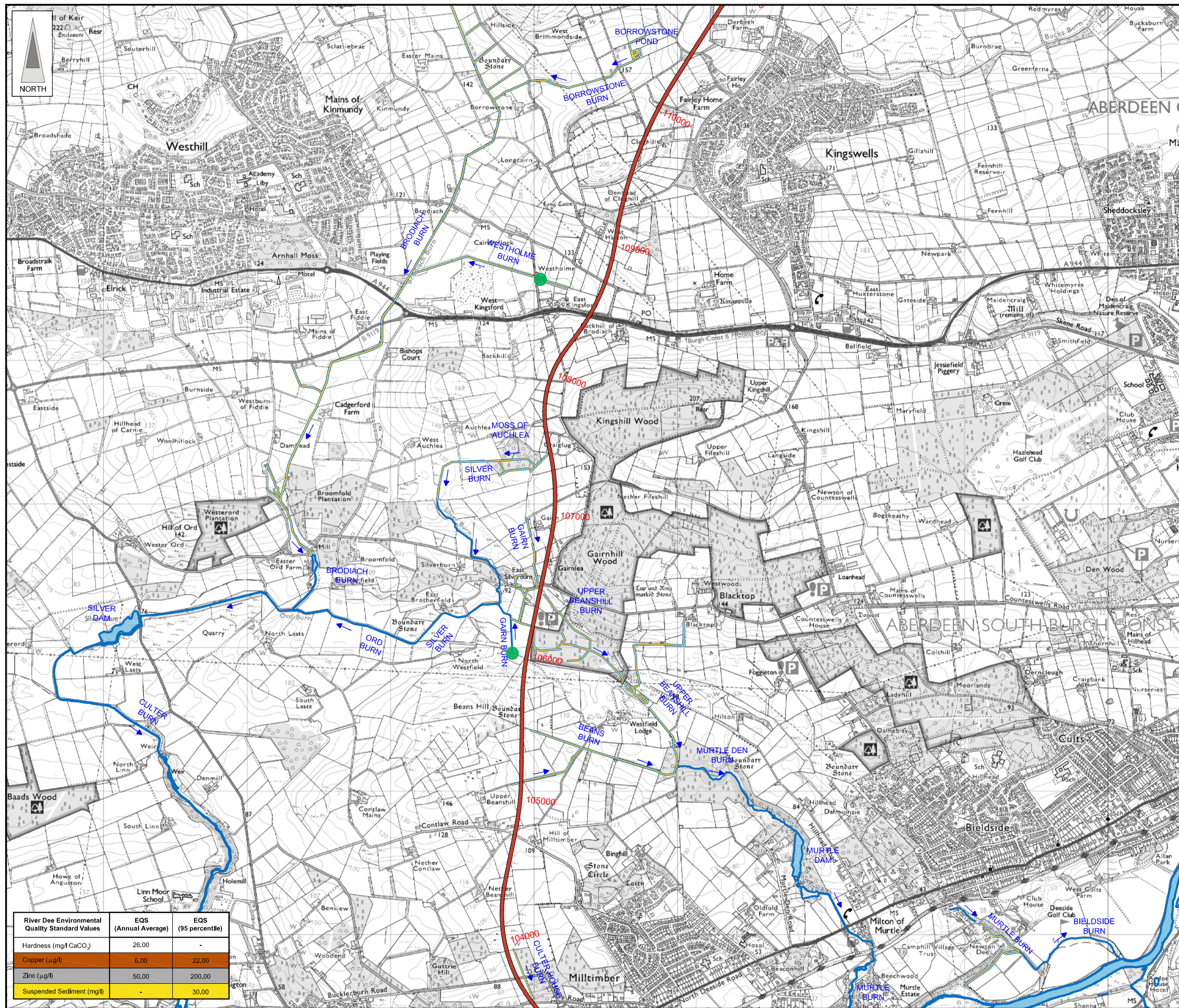
Client: **Aberdeen Western Peripheral Route**

Project: **Aberdeen Western Peripheral Route Environmental Statement, Part C - Southern Leg**

Title: **Water Quality Modelling - With Mitigation, Residual Impact Sheet 3 of 3**

Drawing Status: FINAL	Revisions:
JB No. 0010332	Date: July 2007
Figure No. FIGURE 24.7diii	Approved: SH
Scale: 1:25,000	Checked: DR
Drawn: RB	Approved: SH

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