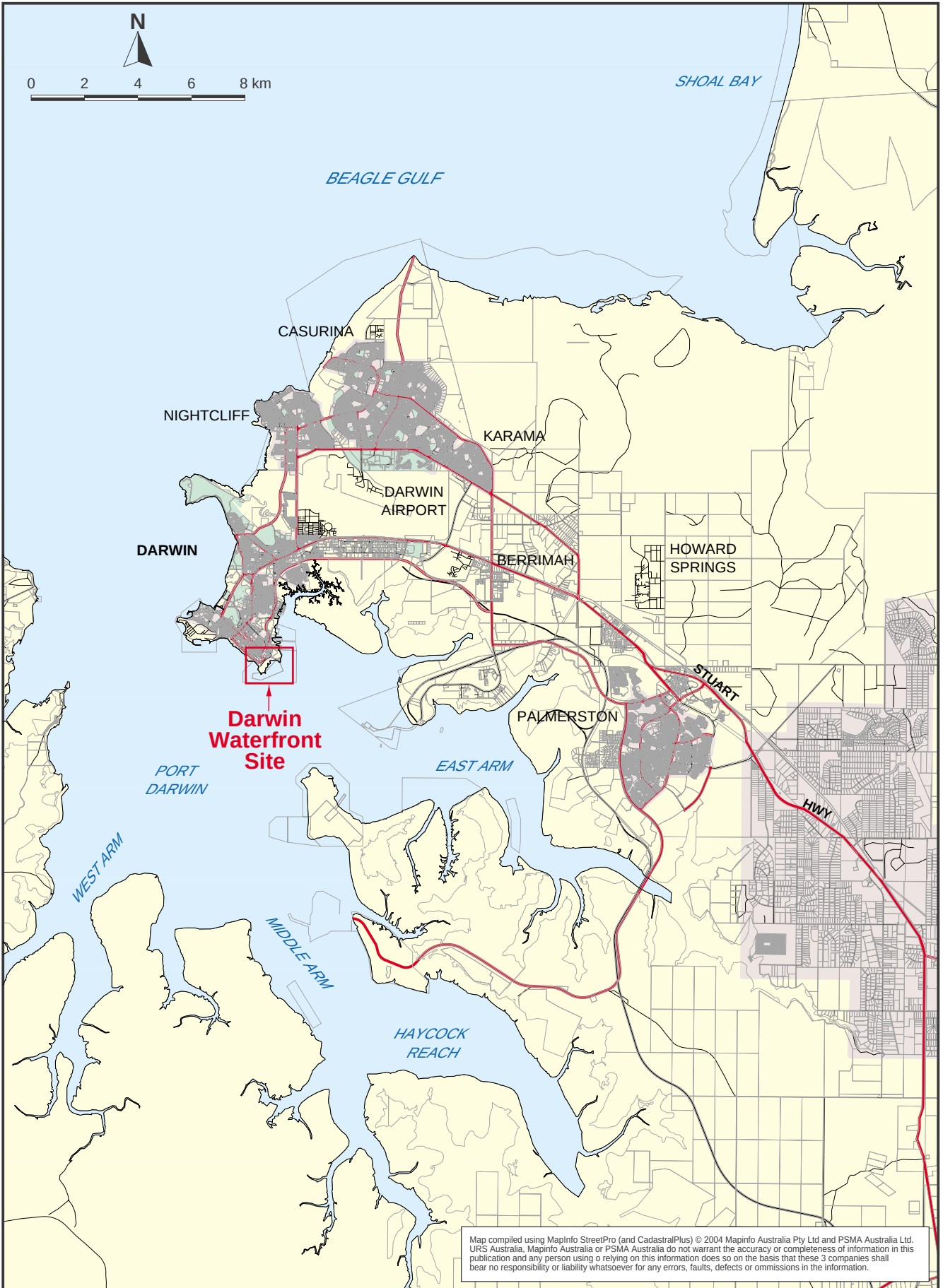




Job No.	36909-007-562	Department of Infrastructure, Planning and Environment DARWIN WATERFRONT PROJECT REGIONAL LOCATION OF THE PROPOSED PROJECT SITE	Figure 1.1	
Prep. By	JD 13 May 04			
Chk'd By	PL 13 May 04			
Revision No.	0			



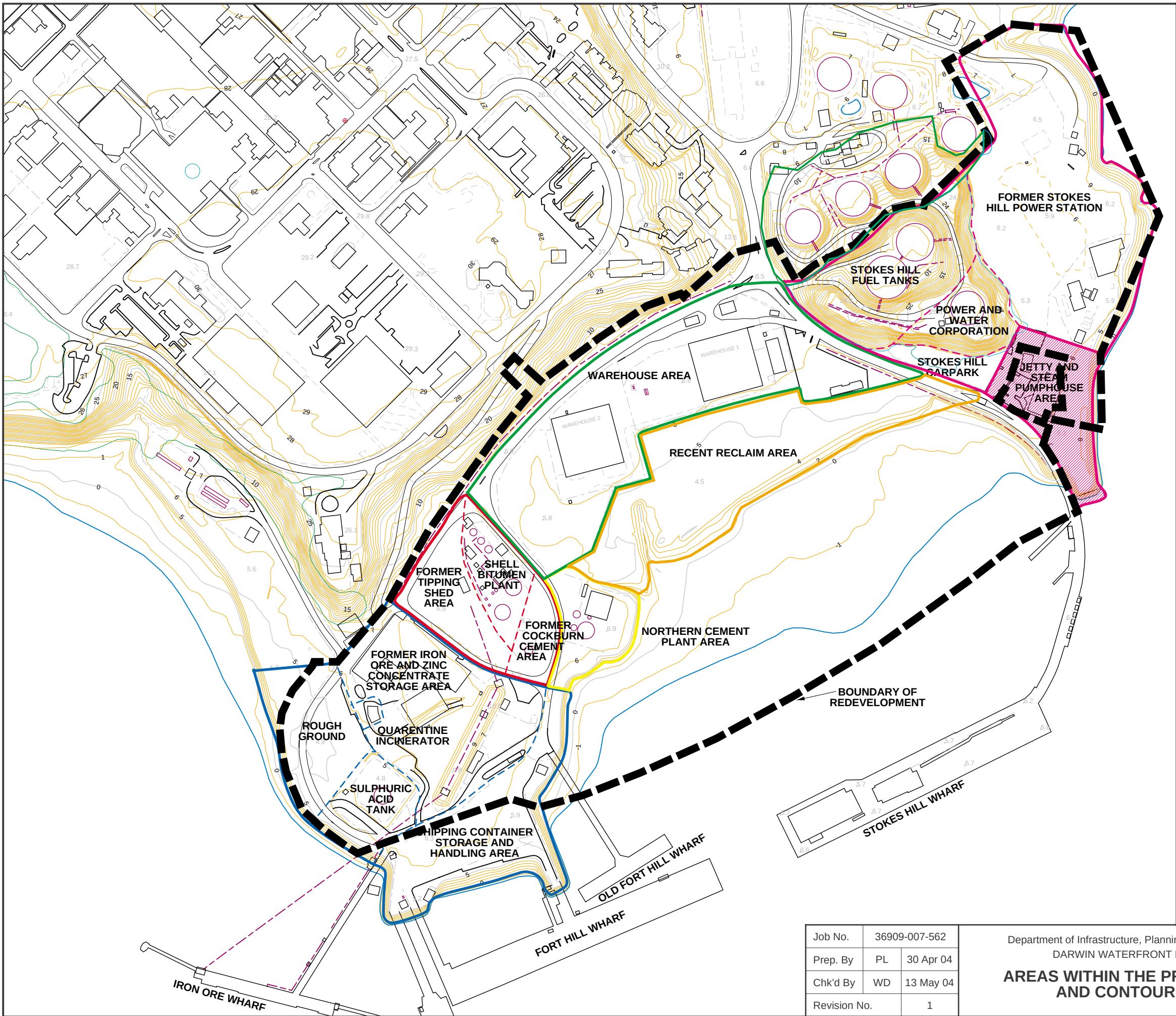
Job No.	36909-007-562		
Prep. By	PL	30 Apr 04	
Chk'd By	WD	13 May 04	
Revision No.		1	

Figure 1.2

URS

Department of Infrastructure, Planning and Environment
DARWIN WATERFRONT PROJECT

PROJECT SITE
(AIR PHOTO DATED 27/9/1999)



LEGEND

- Stokes Hill Area
- Bitumen Plant Area
- Fort Hill Area
- Northern Cement Plant Area
- Recent Reclaimed Area
- Warehouse Area
- Boundary of Redevelopment
- To be retained



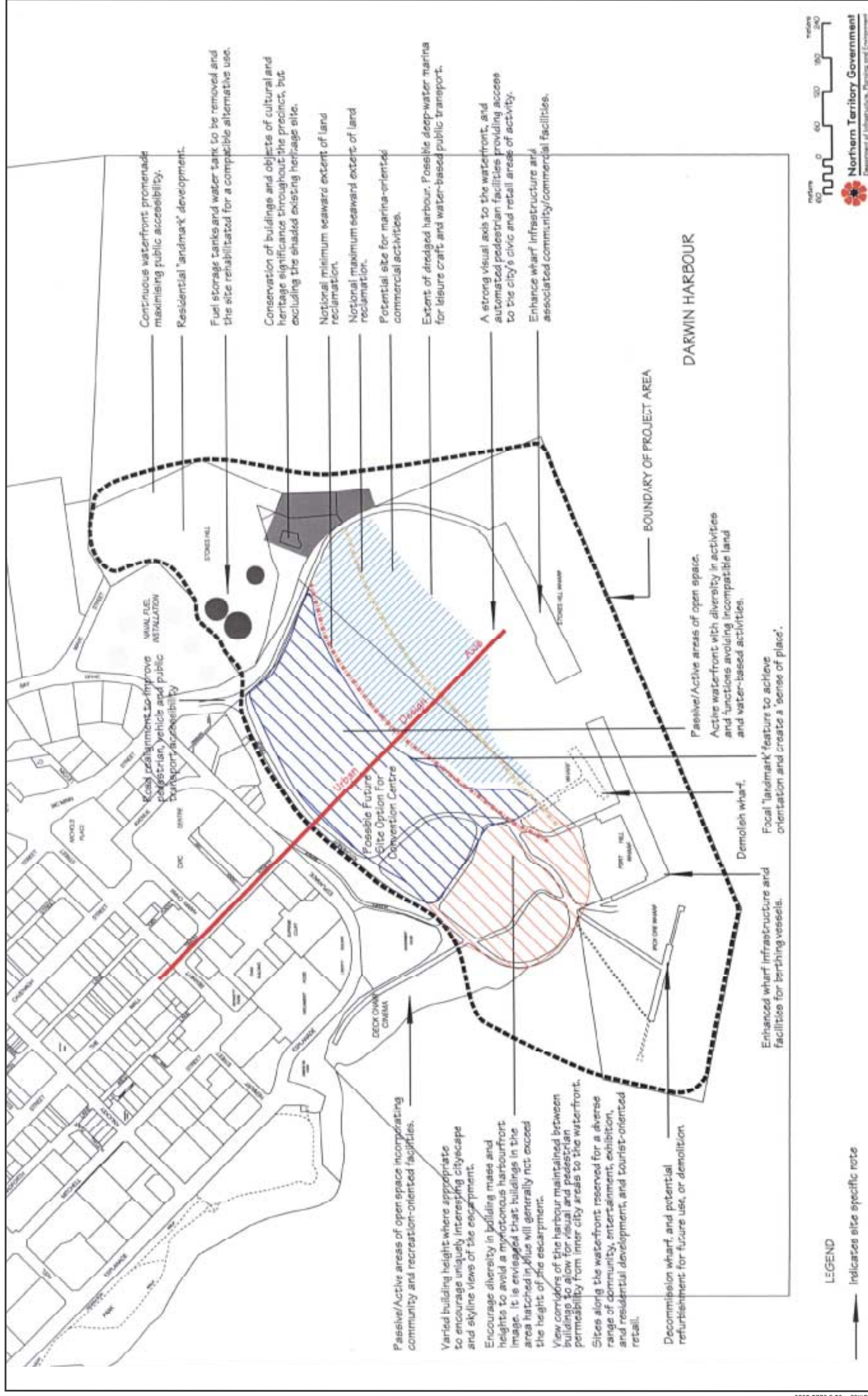
Contour Interval 1m, Vertical datum - AHD

Job No.	36909-007-562	
Prep. By	PL	30 Apr 04
Chk'd By	WD	13 May 04
Revision No.	1	

Department of Infrastructure, Planning and Environment
DARWIN WATERFRONT PROJECT
**AREAS WITHIN THE PROJECT SITE
AND CONTOUR PLAN**

Figure 1.3





Job No.	36909-007-562	
Prep. By	PL	30 Apr 04
Chk'd By	WD	13 May 04
Revision No.	1	

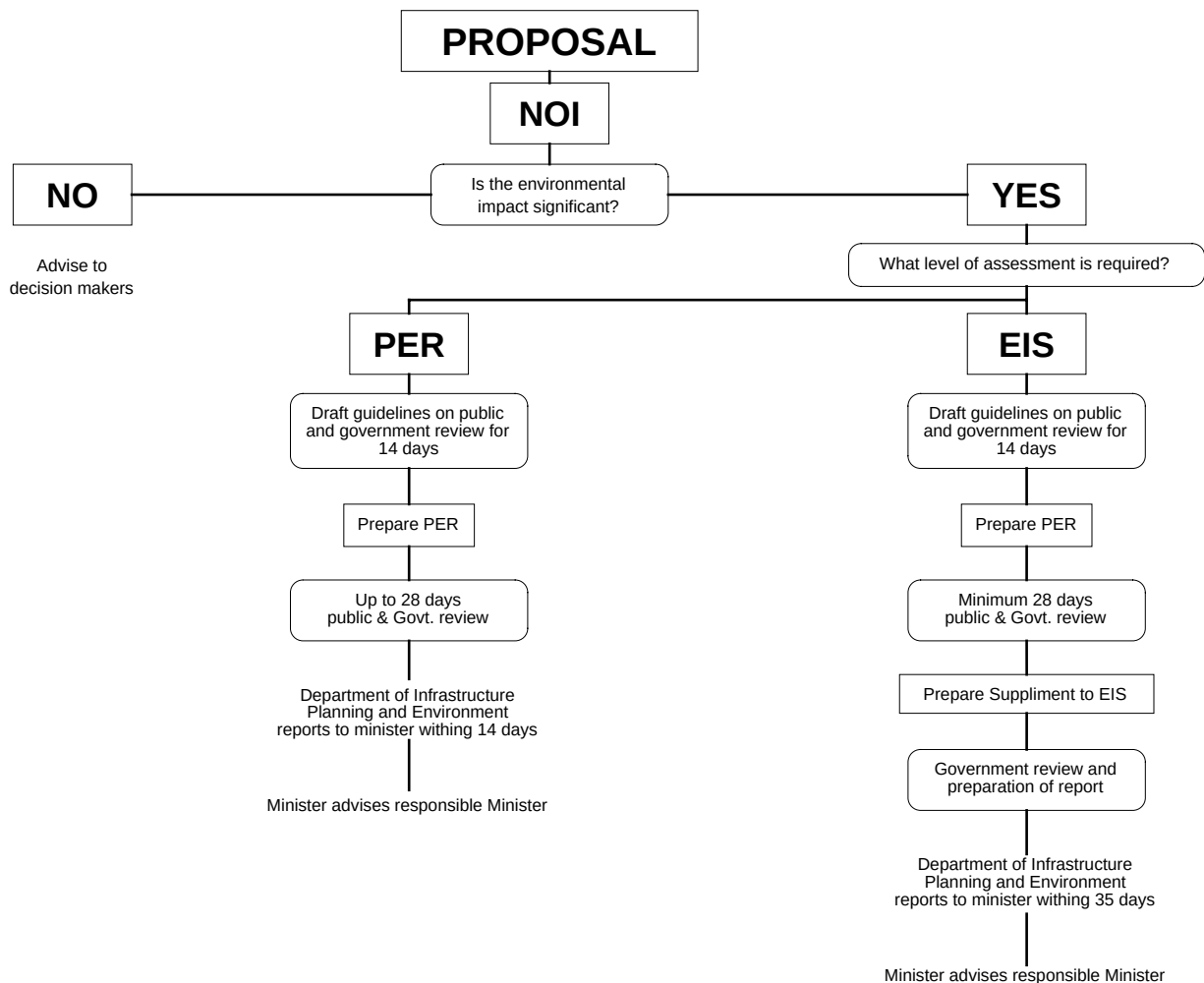
Department of Infrastructure, Planning and Environment

DARWIN WATERFRONT PROJECT

**DARWIN WATERFRONT REVITALISATION
CONCEPT PLAN**

Figure 1.4





Job No.	36909-007-562		Department of Infrastructure, Planning and Environment DARWIN WATERFRONT PROJECT OVERVIEW OF THE NORTHERN TERRITORY ENVIRONMENTAL IMPACT ASSESSMENT PROCESS	Figure 1.5
Prep. By	PL	30 Apr 04		
Chk'd By	WD	13 May 04		
Revision No.		1		

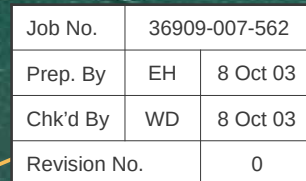


Job No.	36909-007-562	
Prep. By	PL	30 Apr 04
Chk'd By	WD	13 May 04
Revision No.	0	

Department of Infrastructure, Planning and Environment
DARWIN WATERFRONT PROJECT
**ORIGINAL SHORELINE AND
PROGRESSIVE LAND RECLAMATION
OF KITCHENER BAY**

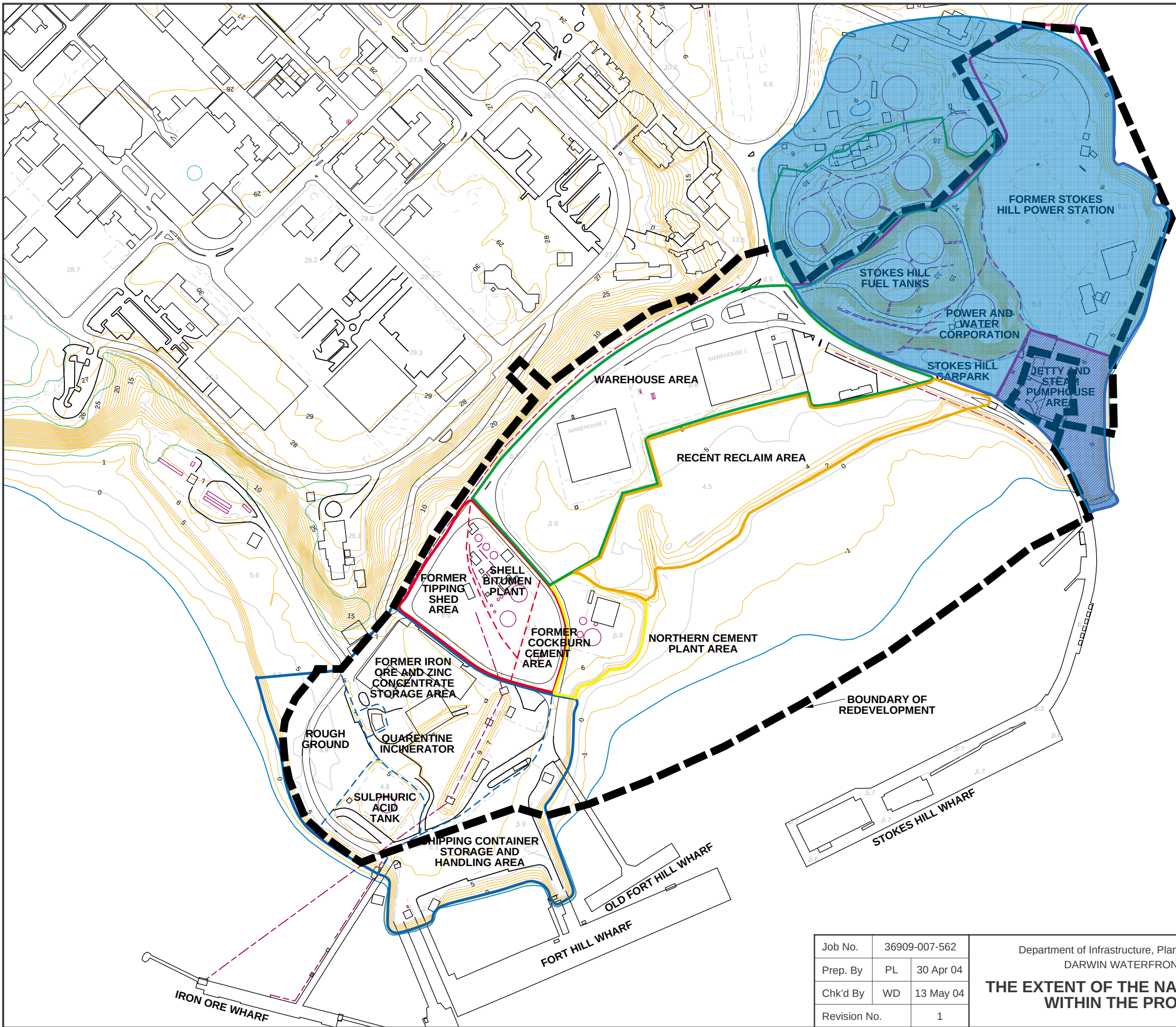
Figure 1.6



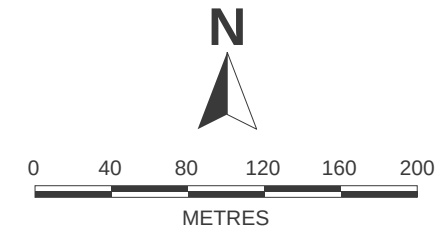


TITLE BOUNDARIES





- LEGEND**
- Stokes Hill Area
 - Bitumen Plant Area
 - Fort Hill Area
 - Northern Cement Plant Area
 - Recent Reclaimed Area
 - Warehouse Area
 - Boundary of Redevelopment
 - To be retained
 - Native Title Claim



Job No.	36909-007-562	
Prep. By	PL	30 Apr 04
Chk'd By	WD	13 May 04
Revision No.	1	

Department of Infrastructure, Planning and Environment
DARWIN WATERFRONT PROJECT

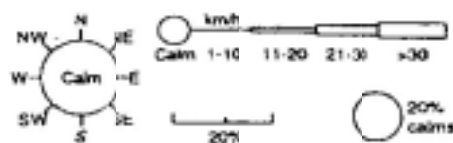
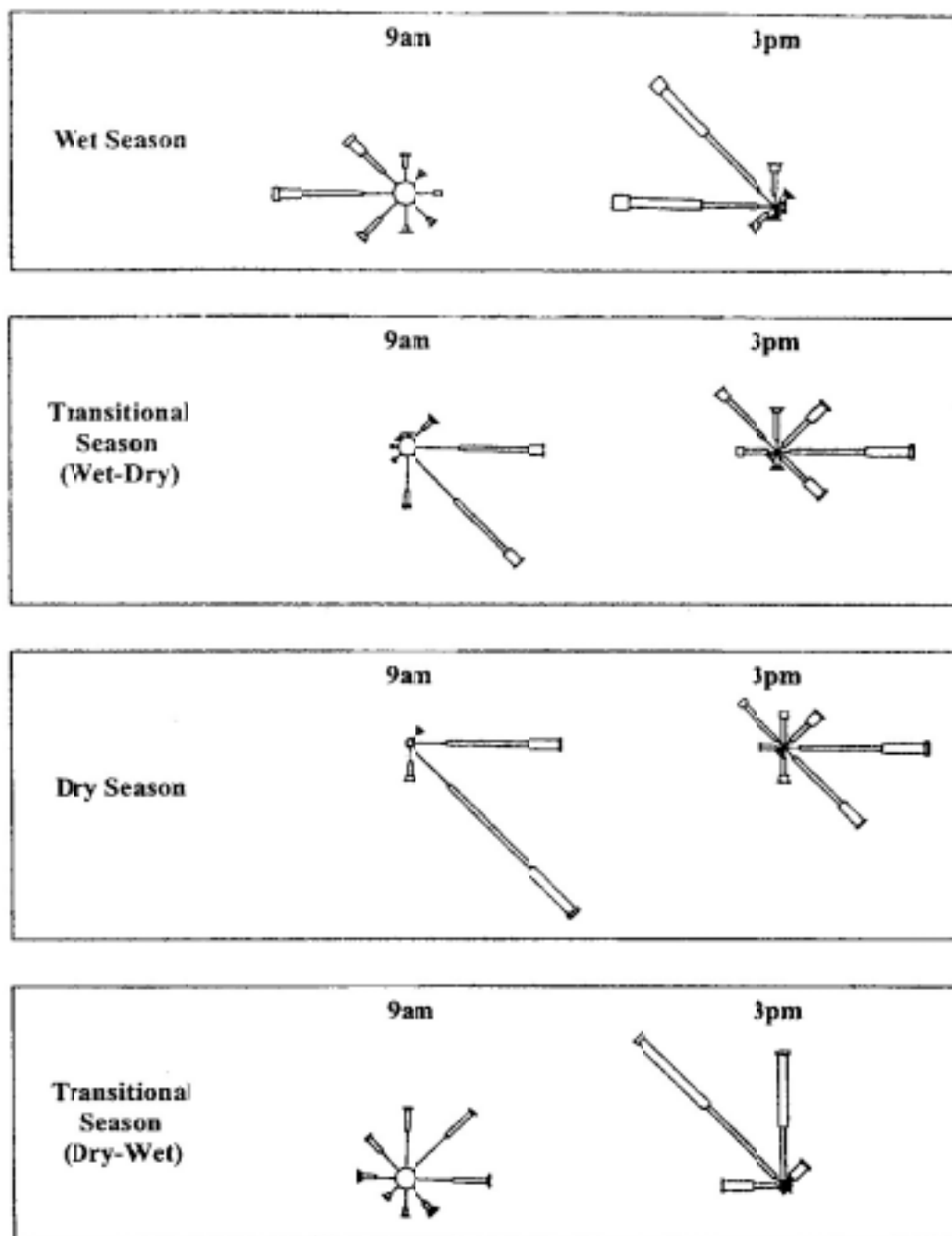
**THE EXTENT OF THE NATIVE TITLE CLAIM
WITHIN THE PROJECT SITE**

Figure 1.8

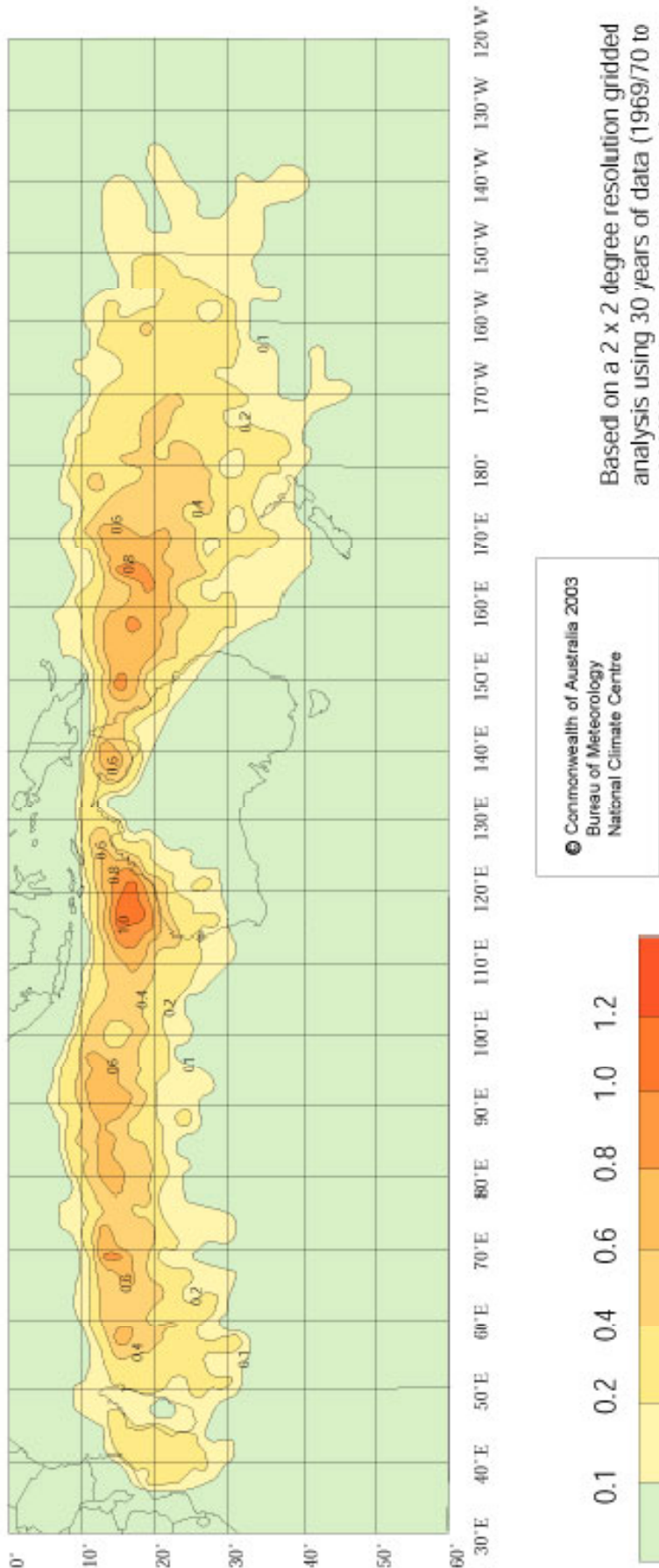
URS



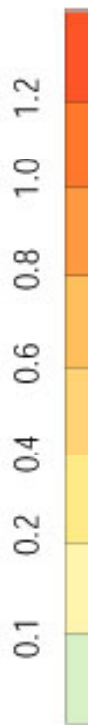
Job No.		36909-007-562		Department of Infrastructure, Planning and Environment DARWIN WATERFRONT PROJECT LOCATION OF THE STOKES HILL SACRED SITE	Figure 1.9
Prep. By		PL			
Chk'd By		WD			
Revision No.		1			
URS					



Job No.	36909-007-562	Department of Infrastructure, Planning and Environment DARWIN WATERFRONT PROJECT WIND ROSES FOR DARWIN AIRPORT	Figure 5.1
Prep. By	PL 30 Apr 04		
Chk'd By	WD 13 May 04		
Revision No.	0		



Commonwealth of Australia 2003
Bureau of Meteorology
National Climate Centre



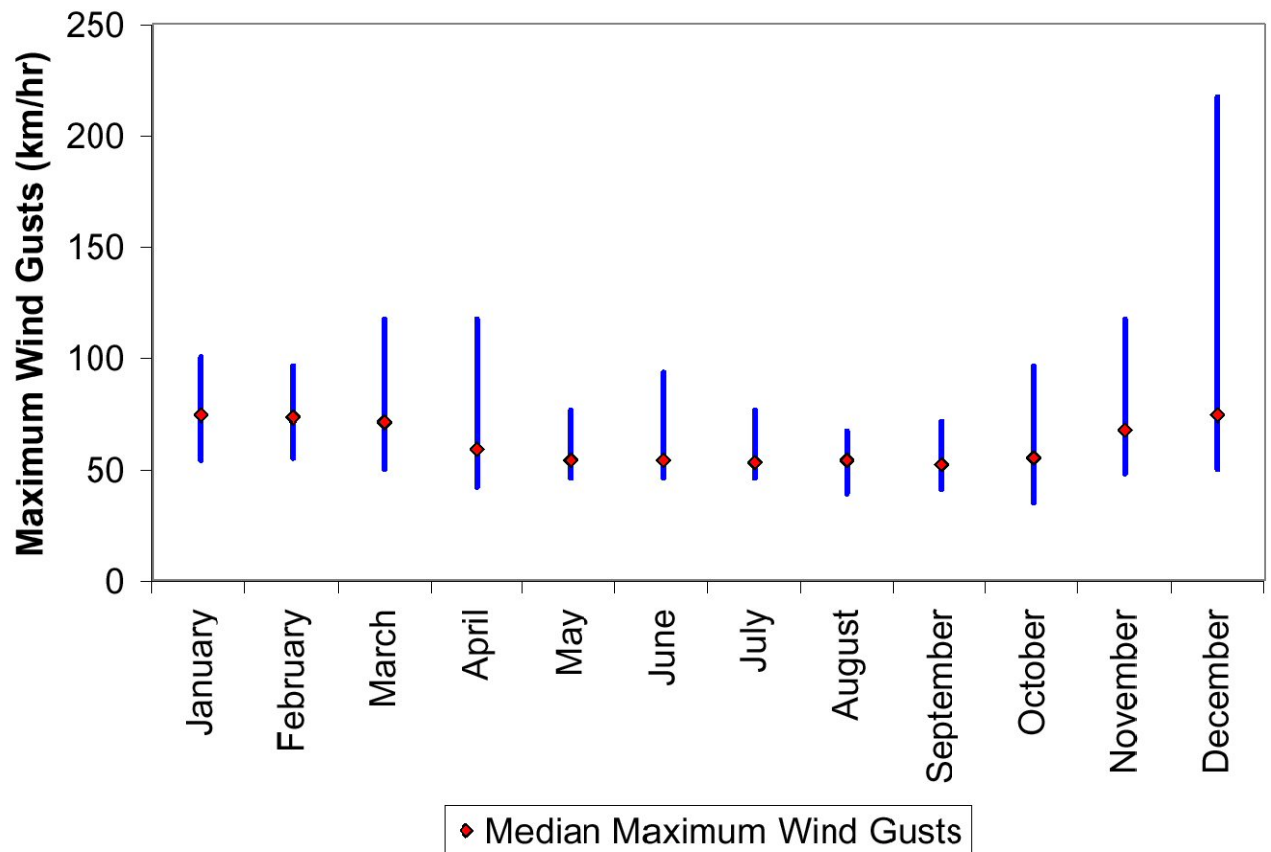
Based on a 2 x 2 degree resolution gridded analysis using 30 years of data (1969/70 to 1998/99 tropical cyclone seasons).

Job No.	36909-007-562	
Prep. By	PL	30 Apr 04
Chk'd By	WD	13 May 04
Revision No.	0	

Department of Infrastructure, Planning and Environment
DARWIN WATERFRONT PROJECT
**AVERAGE ANNUAL NUMBER OF CYCLONES
ACROSS NORTHERN AUSTRALIA**

Figure 5.2





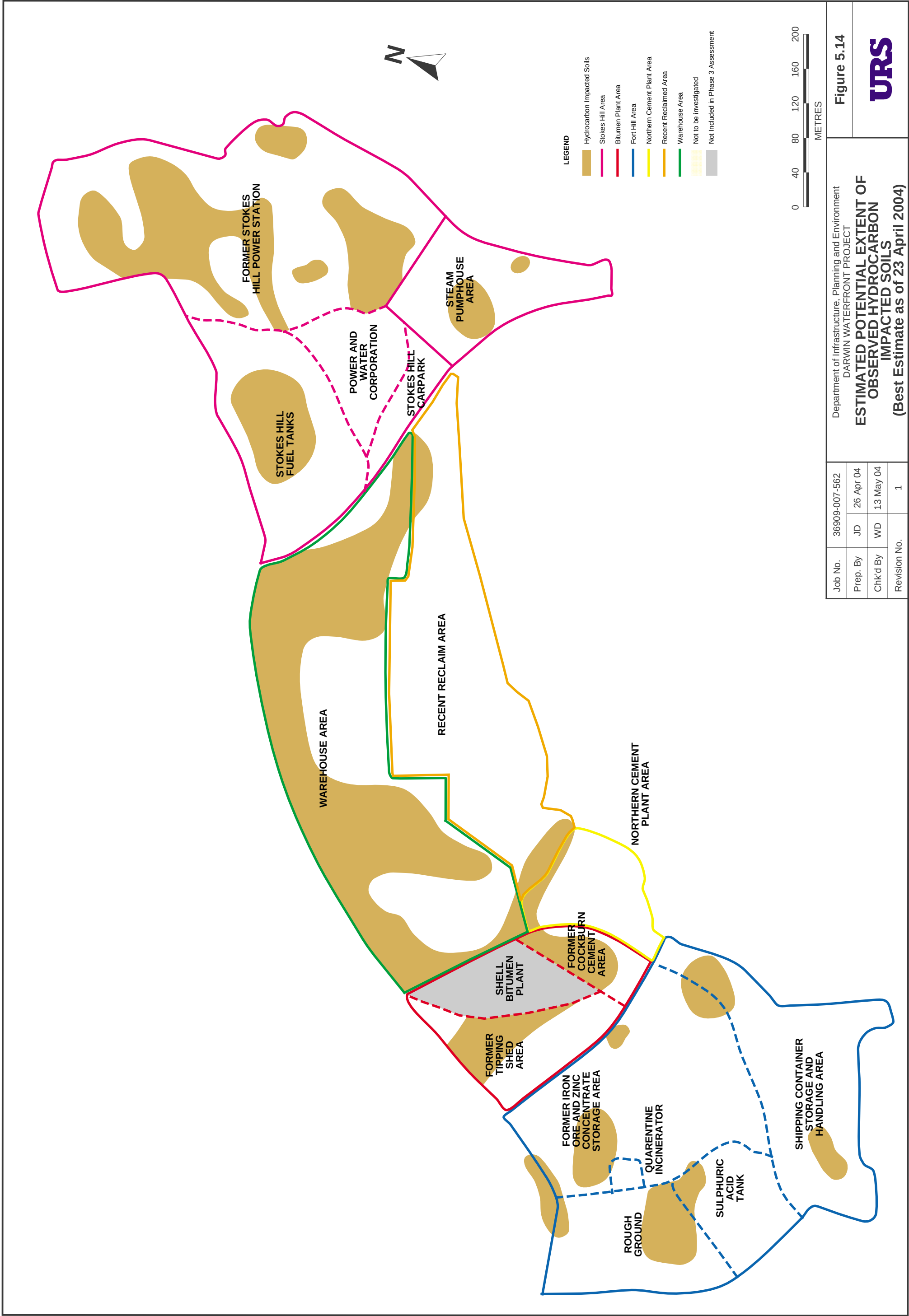
SOURCE: Bureau of Meteorology, 2004

Figure 5.3

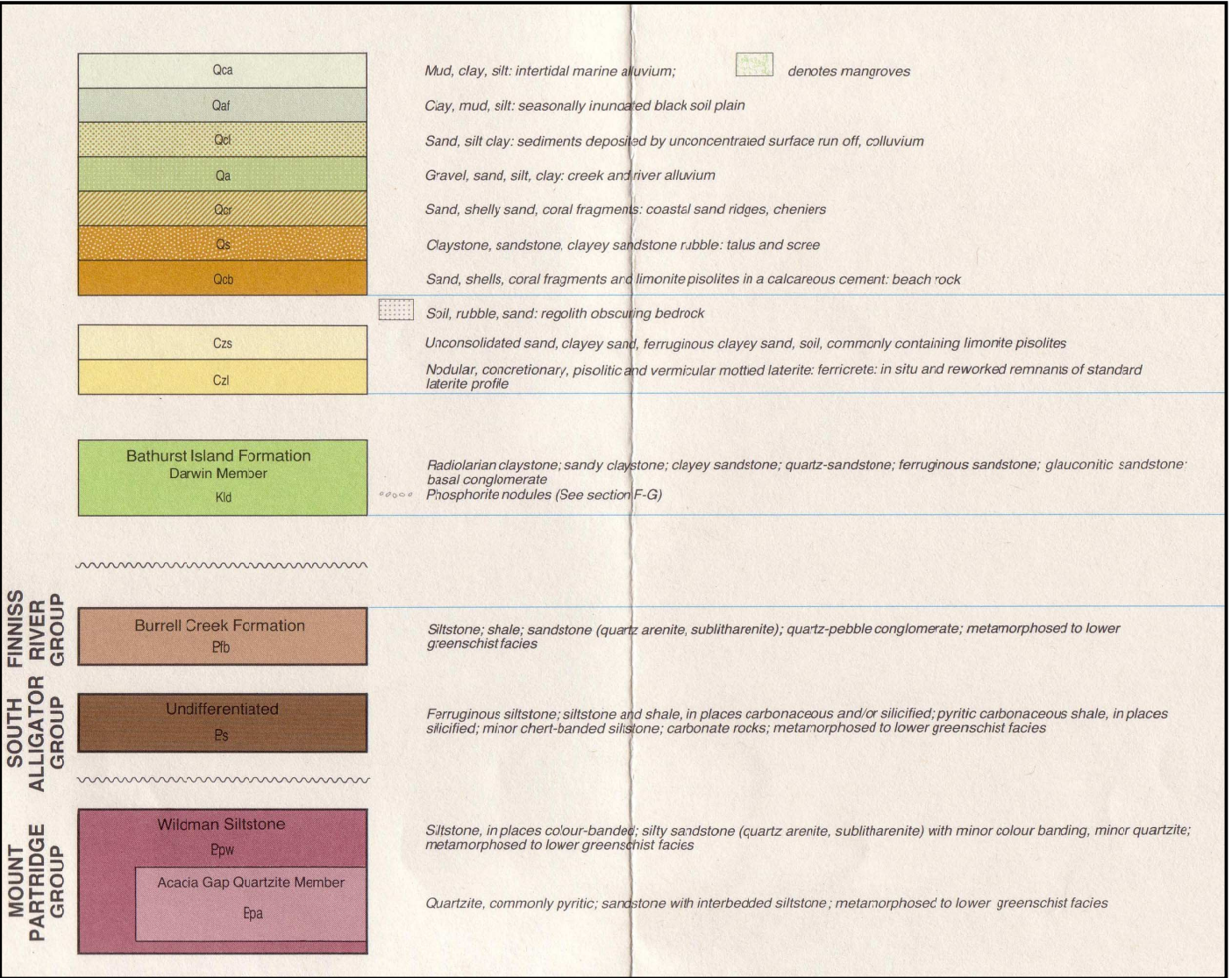


Department of Infrastructure, Planning and Environment
DARWIN WATERFRONT PROJECT
**SEASONALITY AND STRENGTH OF
MAXIMUM WIND GUSTS
(MEDIAN AND RANGE FROM 1959 TO 2000)**

Job No.	36909-007-562	
Prep. By	JD	13 May 04
Chk'd By	PL	13 May 04
Revision No.	0	

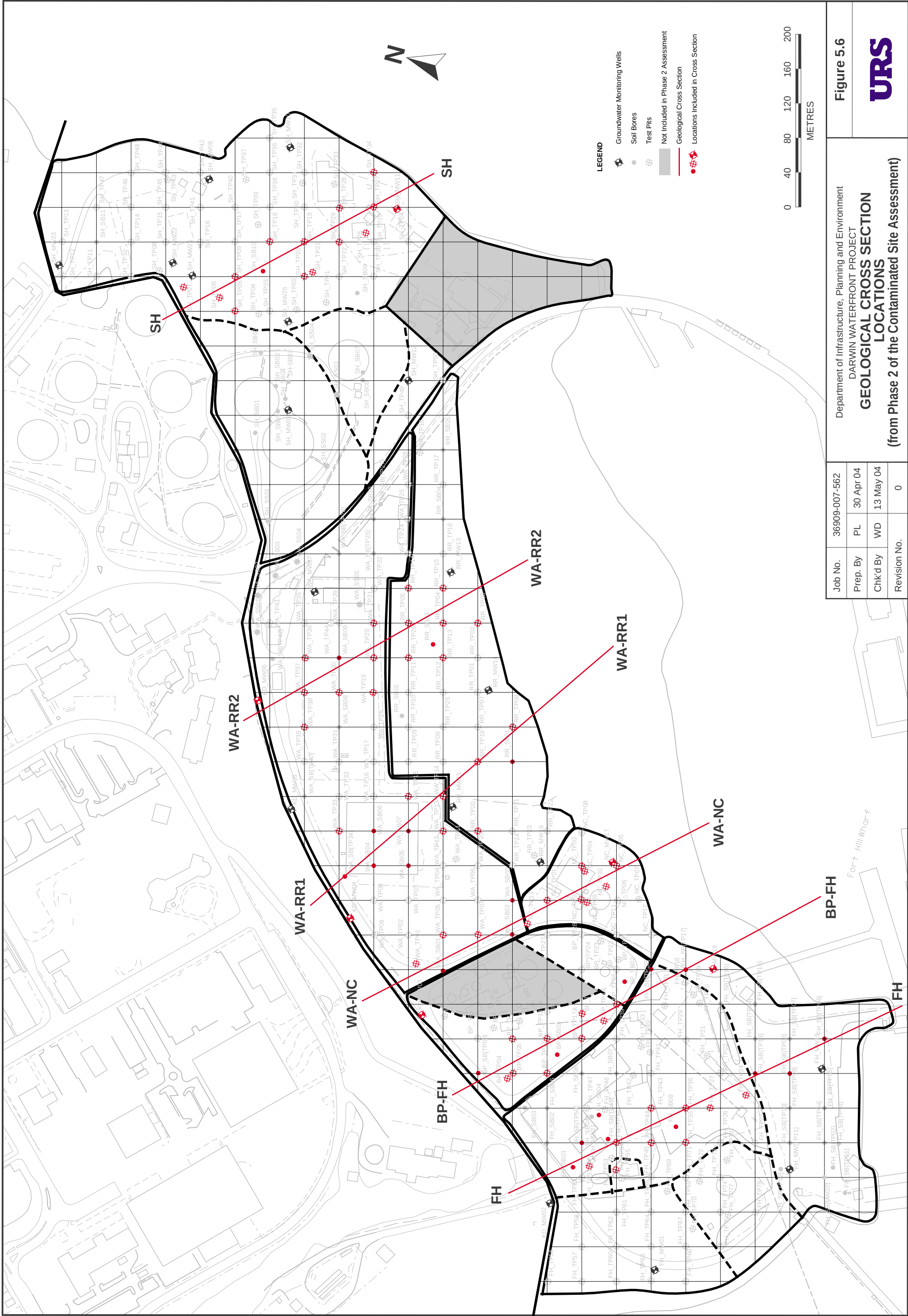


Job No.	36909-007-562	Department of Infrastructure, Planning and Environment DARWIN WATERFRONT PROJECT			Figure 5.14	
Prep. By	JD	26 Apr 04	ESTIMATED POTENTIAL EXTENT OF OBSERVED HYDROCARBON IMPACTED SOILS (Best Estimate as of 23 April 2004)			URS
Chk'd By	WD	13 May 04				
Revision No.		1				

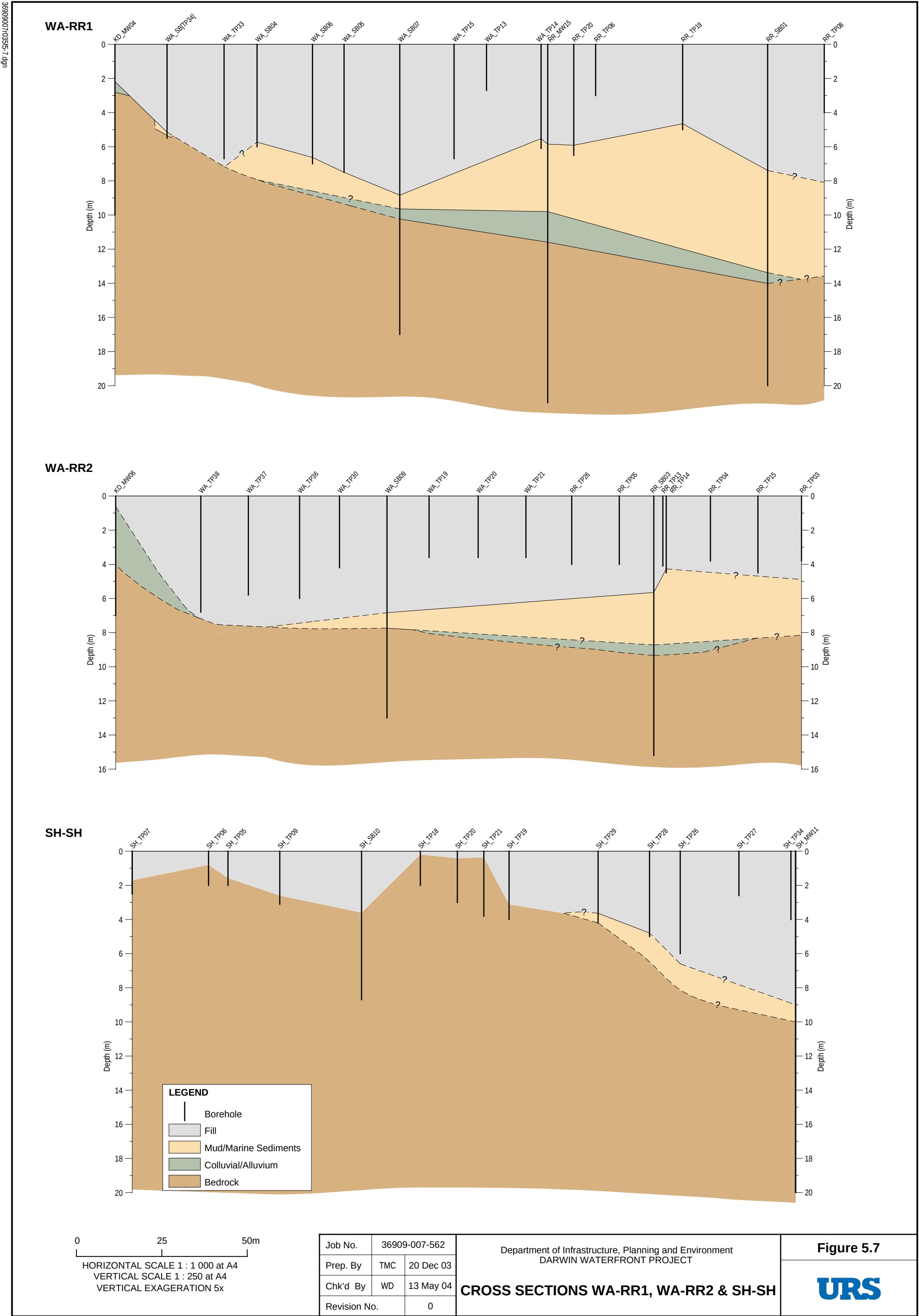


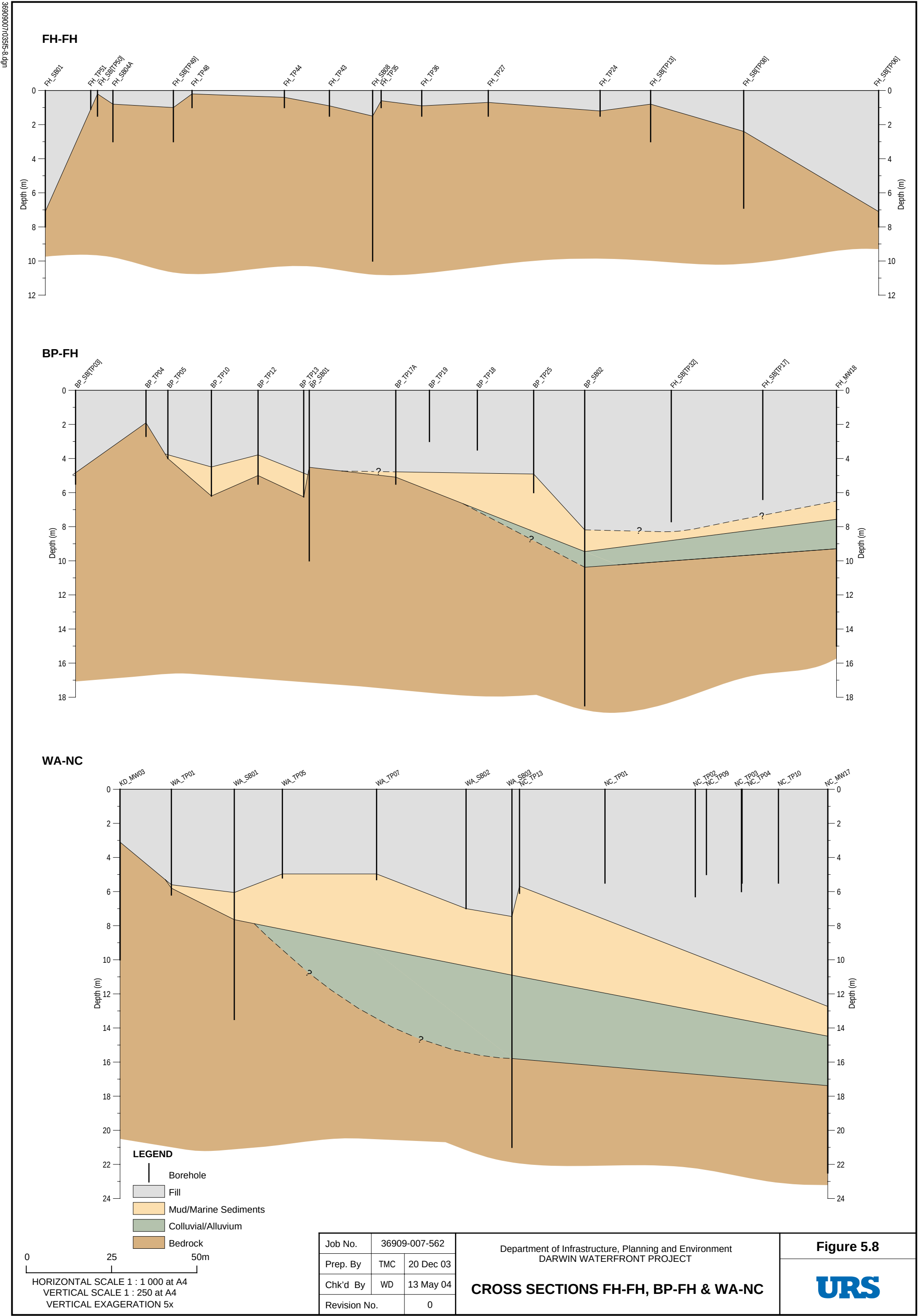
SOURCE: NT Department of Mines and Energy, 1:100 Geological Map Series Sheet 5073 Darwin

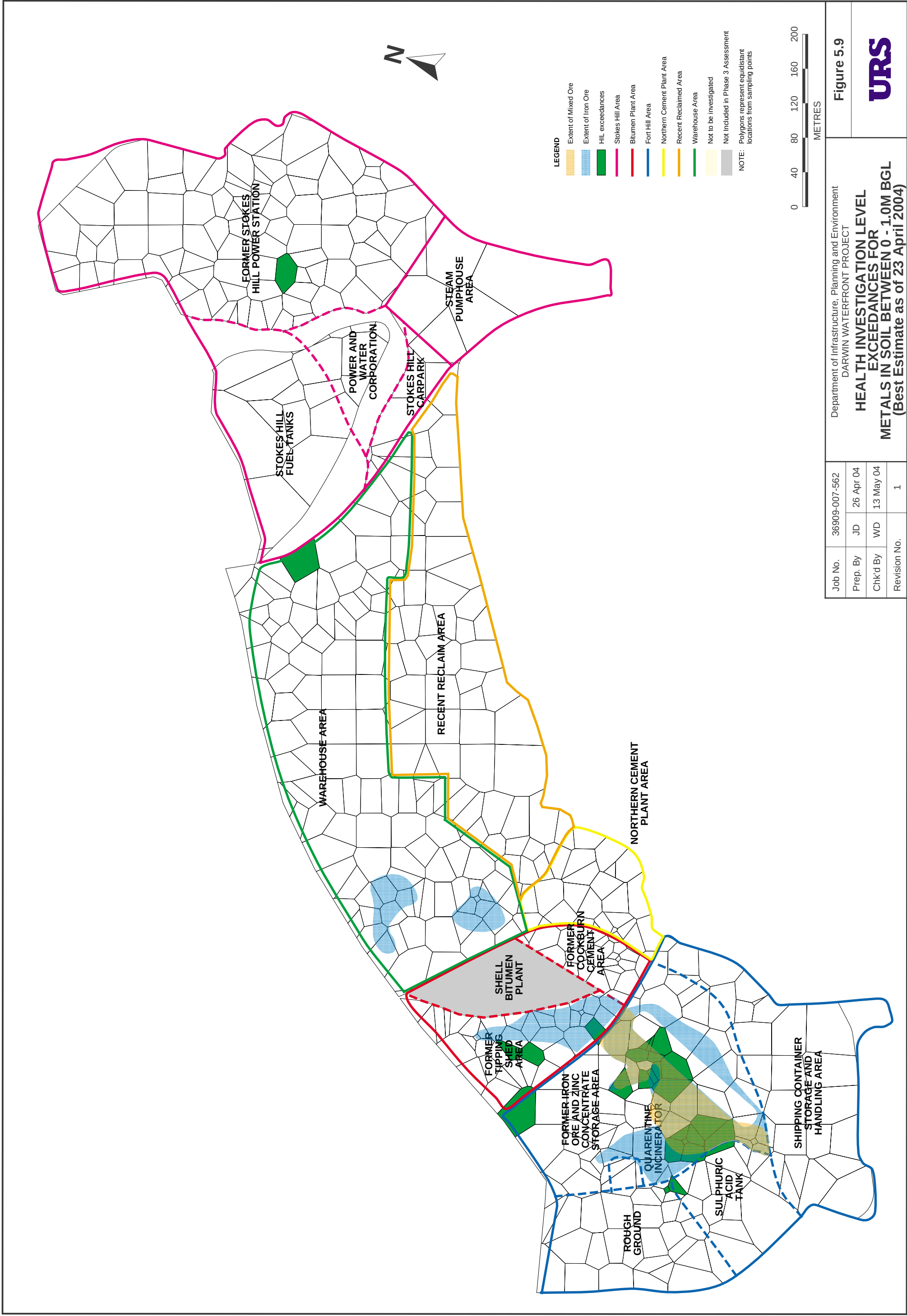
Job No.	36909-007-562		Department of Infrastructure, Planning and Environment DARWIN WATERFRONT PROJECT GEOLOGY OF THE DARWIN AREA	Figure 5.5
Prep. By	JD	13 May 04		
Chk'd By	PL	13 May 04		
Revision No.		0		



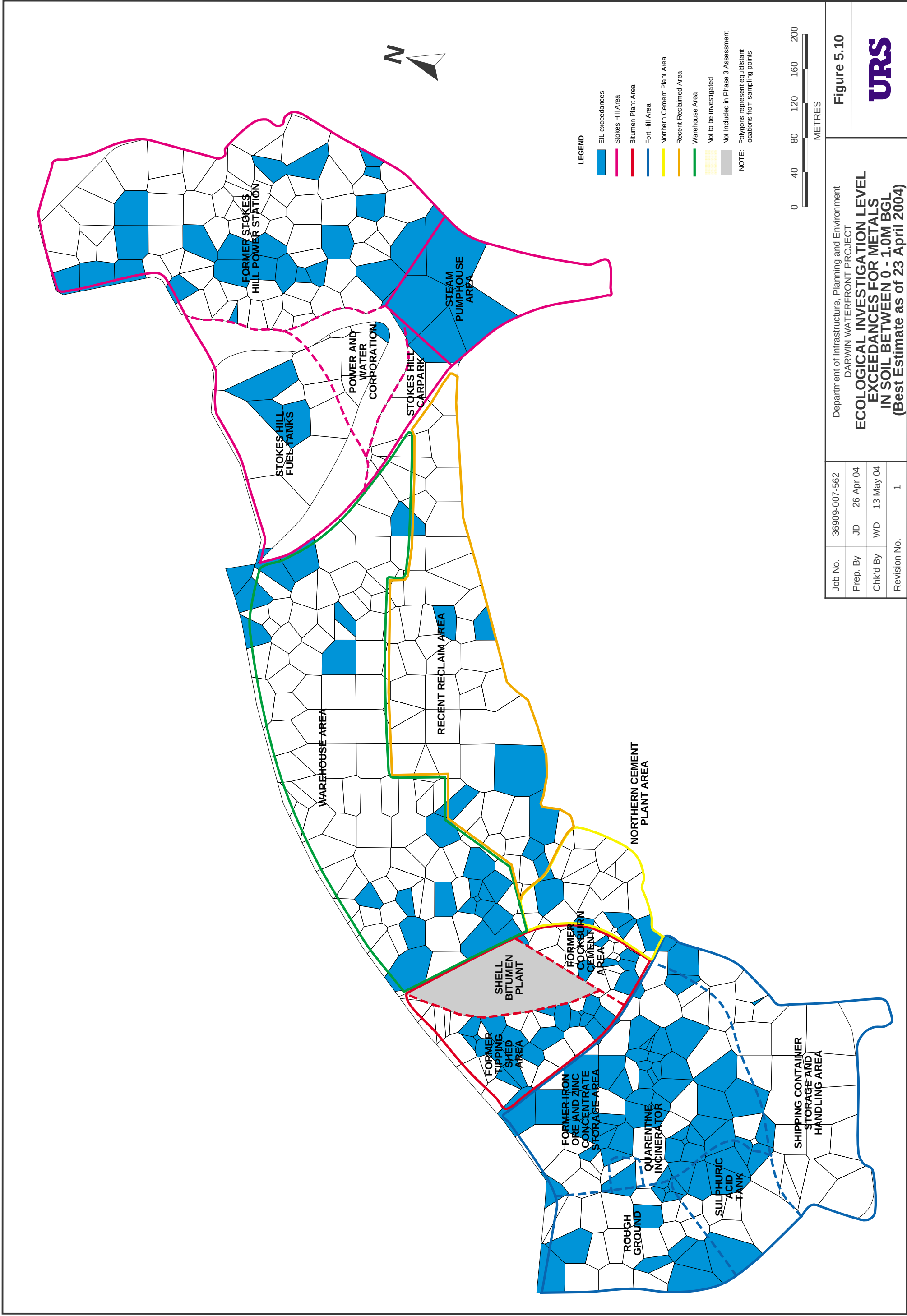
Job No.		36909-007-562		Department of Infrastructure, Planning and Environment DARWIN WATERFRONT PROJECT GEOLOGICAL CROSS SECTION LOCATIONS (from Phase 2 of the Contaminated Site Assessment)	
Prep. By		PL			
Chk'd By		WD			
Revision No.		0			





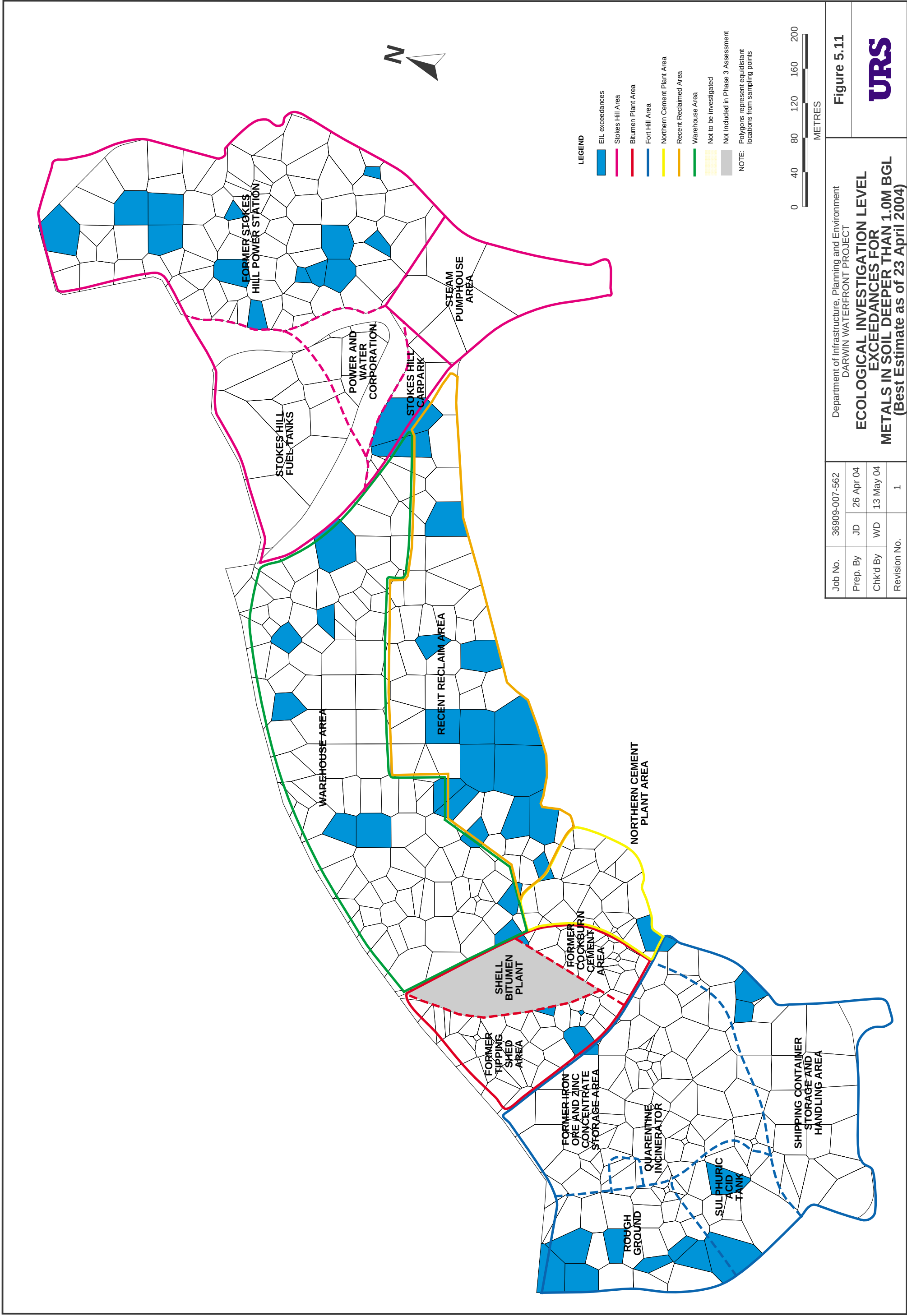


Job No.		36909-007-562	Department of Infrastructure, Planning and Environment DARWIN WATERFRONT PROJECT		Figure 5.9
Prep. By		JD	26 Apr 04	HEALTH INVESTIGATION LEVEL EXCEEDANCES FOR METALS IN SOIL BETWEEN 0 - 1.0M BGL (Best Estimate as of 23 April 2004)	
Chk'd By		WD	13 May 04		
Revision No.			1		

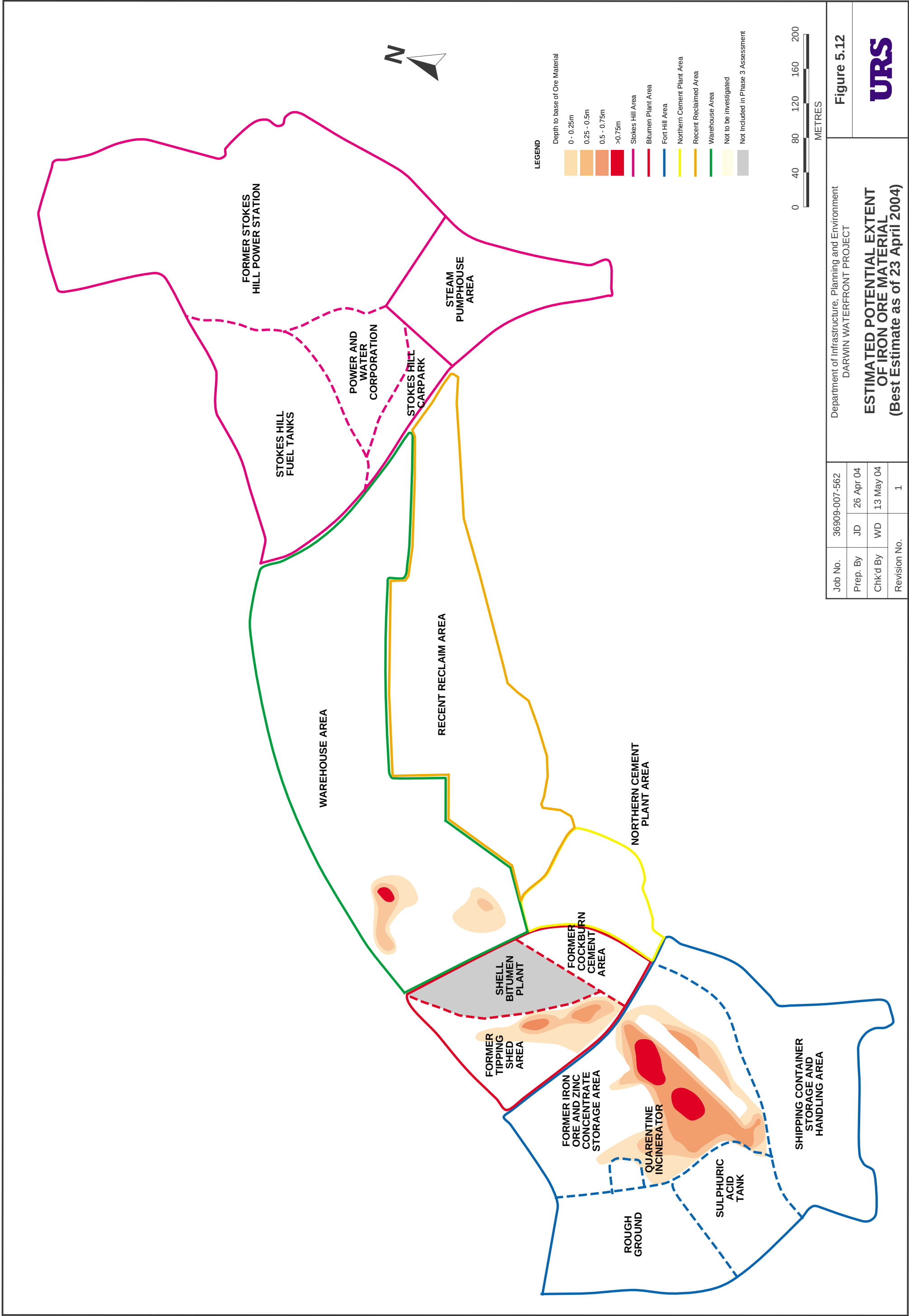


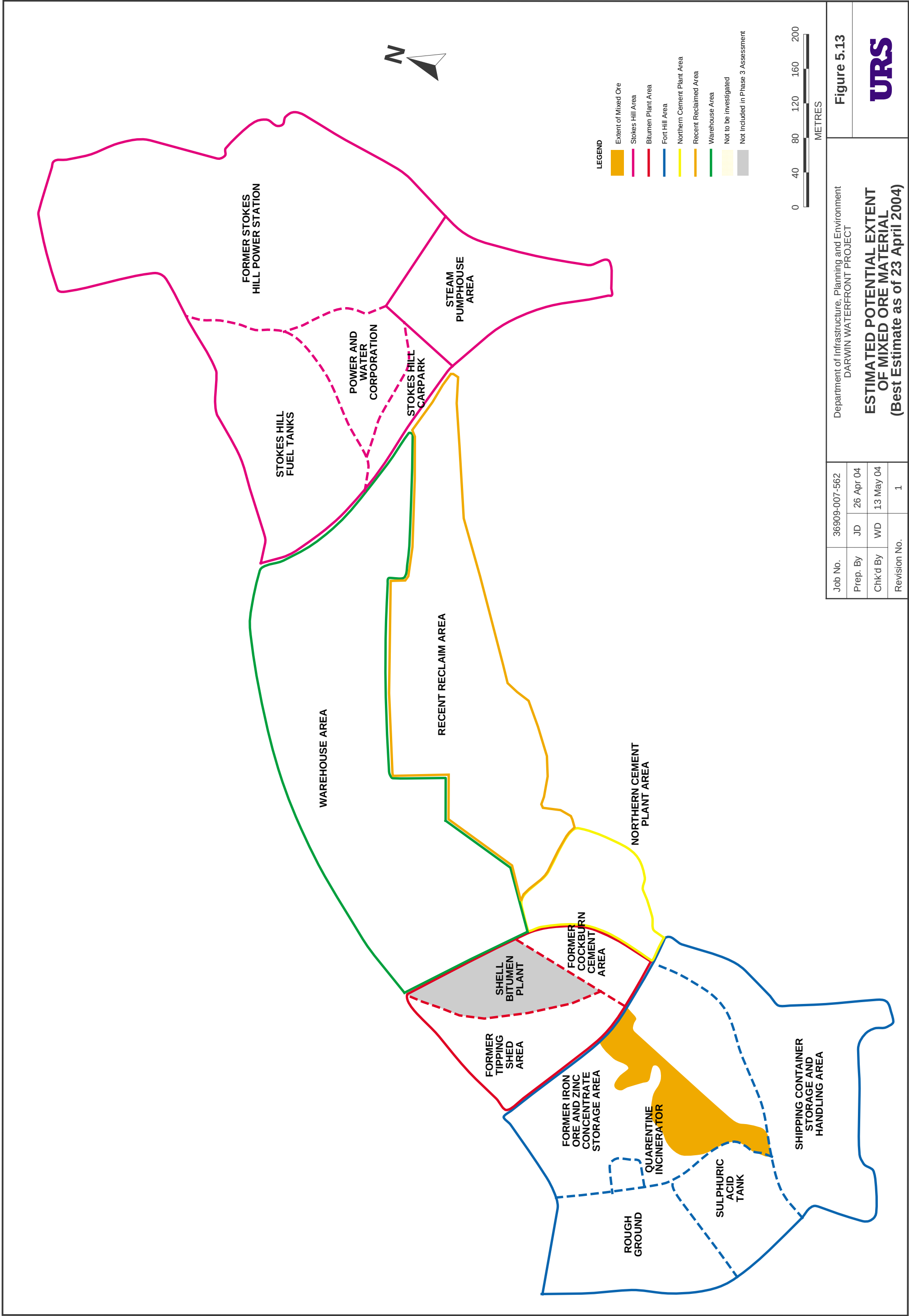
Job No.		36909-007-562		Department of Infrastructure, Planning and Environment DARWIN WATERFRONT PROJECT ECOLOGICAL INVESTIGATION LEVEL EXCEEDANCES FOR METALS IN SOIL BETWEEN 0 - 1.0M BGL (Best Estimate as of 23 April 2004)	
Prep. By		JD	26 Apr 04		
Chk'd By		WD	13 May 04		
Revision No.			1		





Job No.		36909-007-562		Department of Infrastructure, Planning and Environment DARWIN WATERFRONT PROJECT		Figure 5.11
Prep. By		JD		26 Apr 04		
Chk'd By		WD		13 May 04		URS
Revision No.				1		
ECOLOGICAL INVESTIGATION LEVEL EXCEEDANCES FOR METALS IN SOIL DEEPER THAN 1.0M BGL (Best Estimate as of 23 April 2004)						

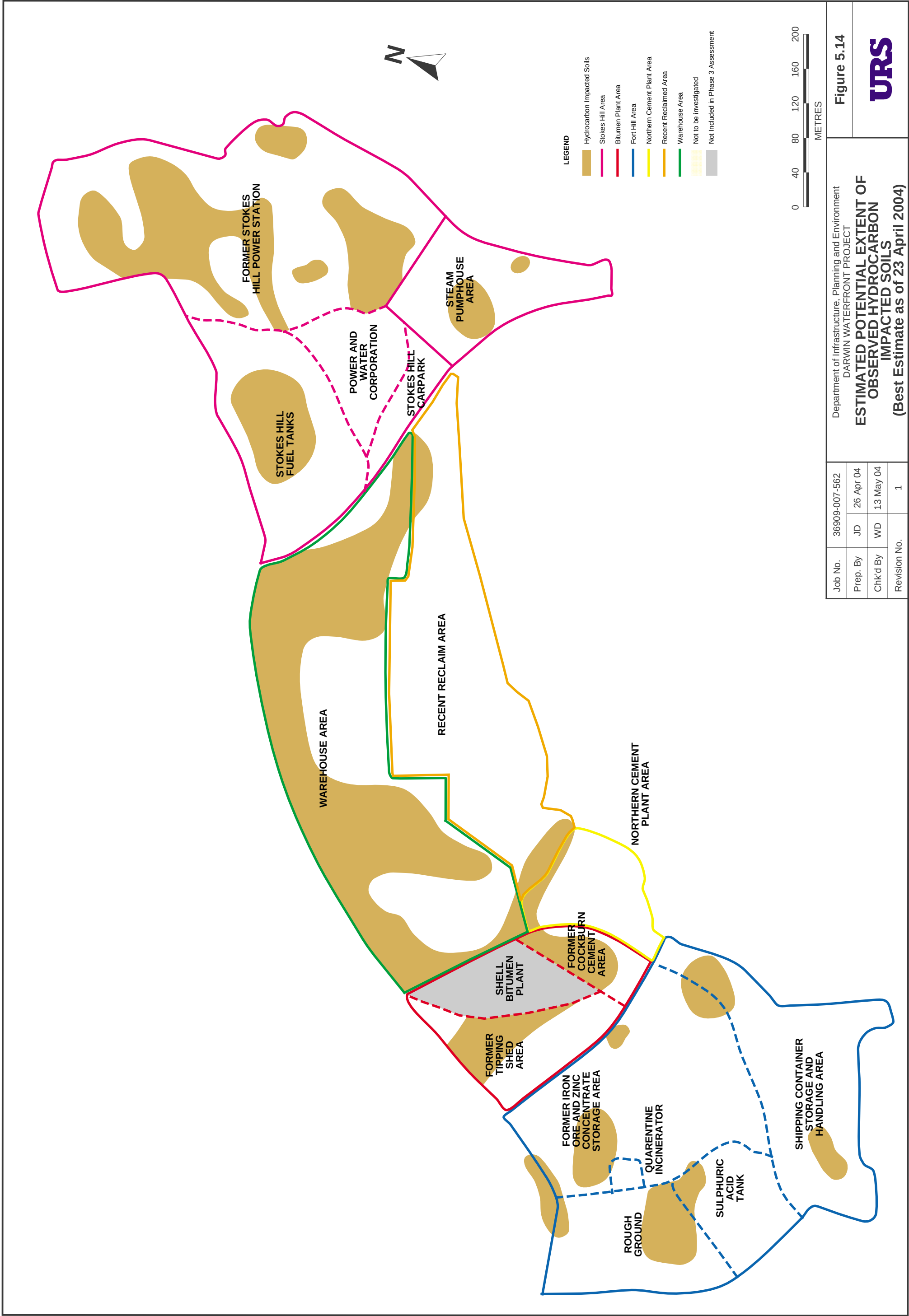




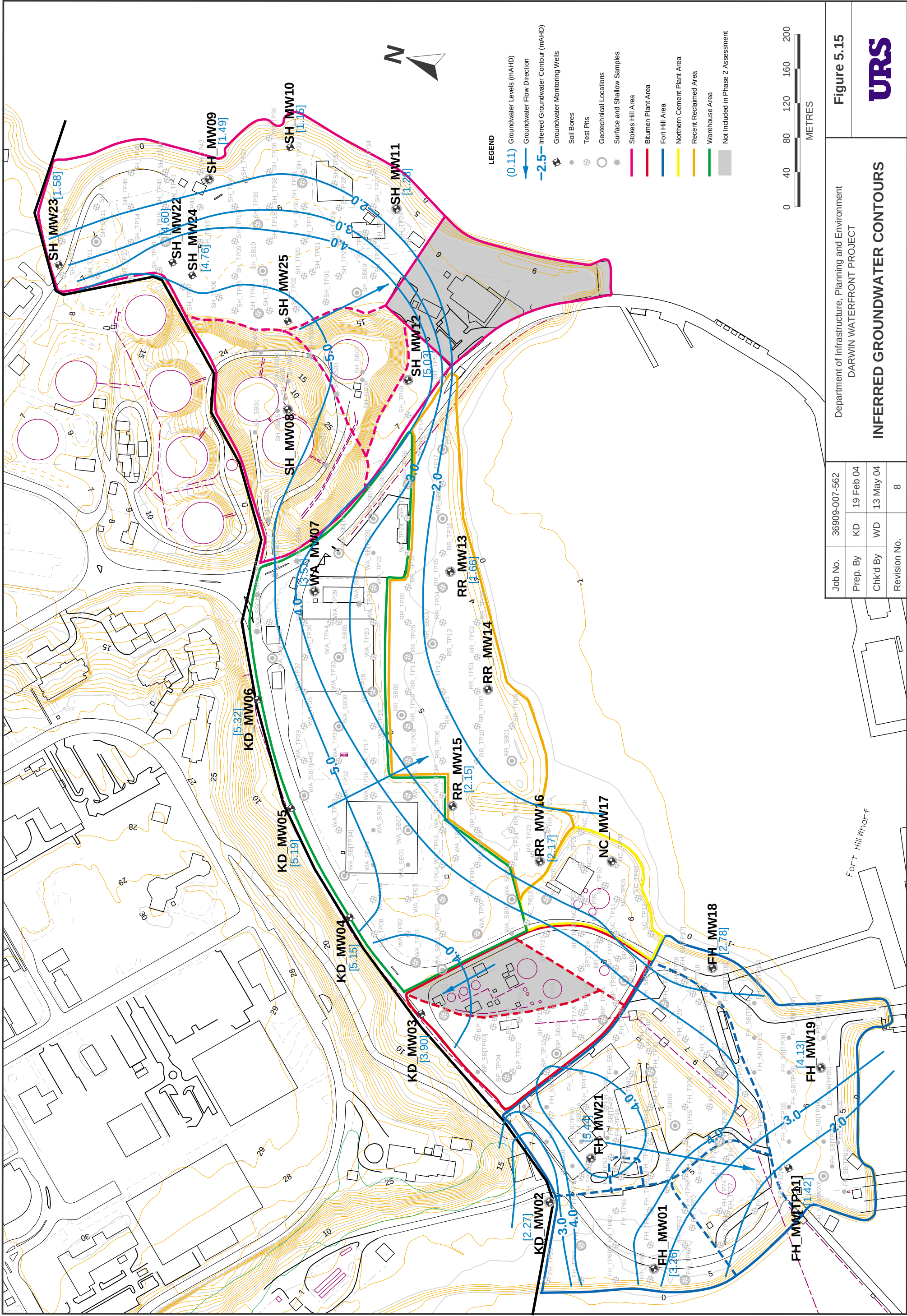
Job No.	36909-007-562	Department of Infrastructure, Planning and Environment DARWIN WATERFRONT PROJECT		
Prep. By	JD	26 Apr 04	ESTIMATED POTENTIAL EXTENT OF MIXED ORE MATERIAL (Best Estimate as of 23 April 2004)	
Chk'd By	WD	13 May 04		
Revision No.		1		

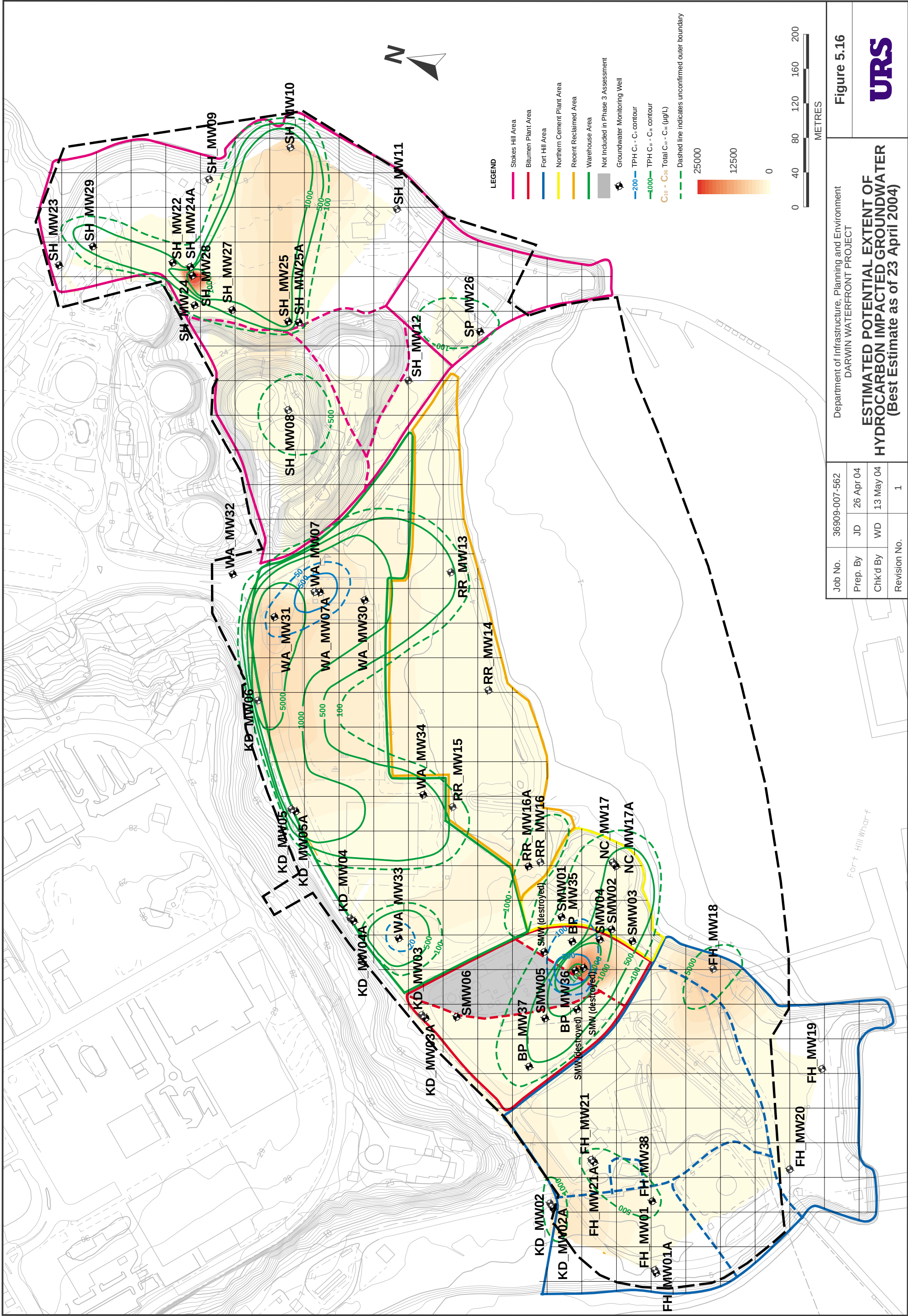
Figure 5.13





Job No.	36909-007-562		Department of Infrastructure, Planning and Environment DARWIN WATERFRONT PROJECT ESTIMATED POTENTIAL EXTENT OF OBSERVED HYDROCARBON IMPACTED SOILS (Best Estimate as of 23 April 2004)		Figure 5.14
Prep. By	JD	26 Apr 04			
Chk'd By	WD	13 May 04			
Revision No.		1			





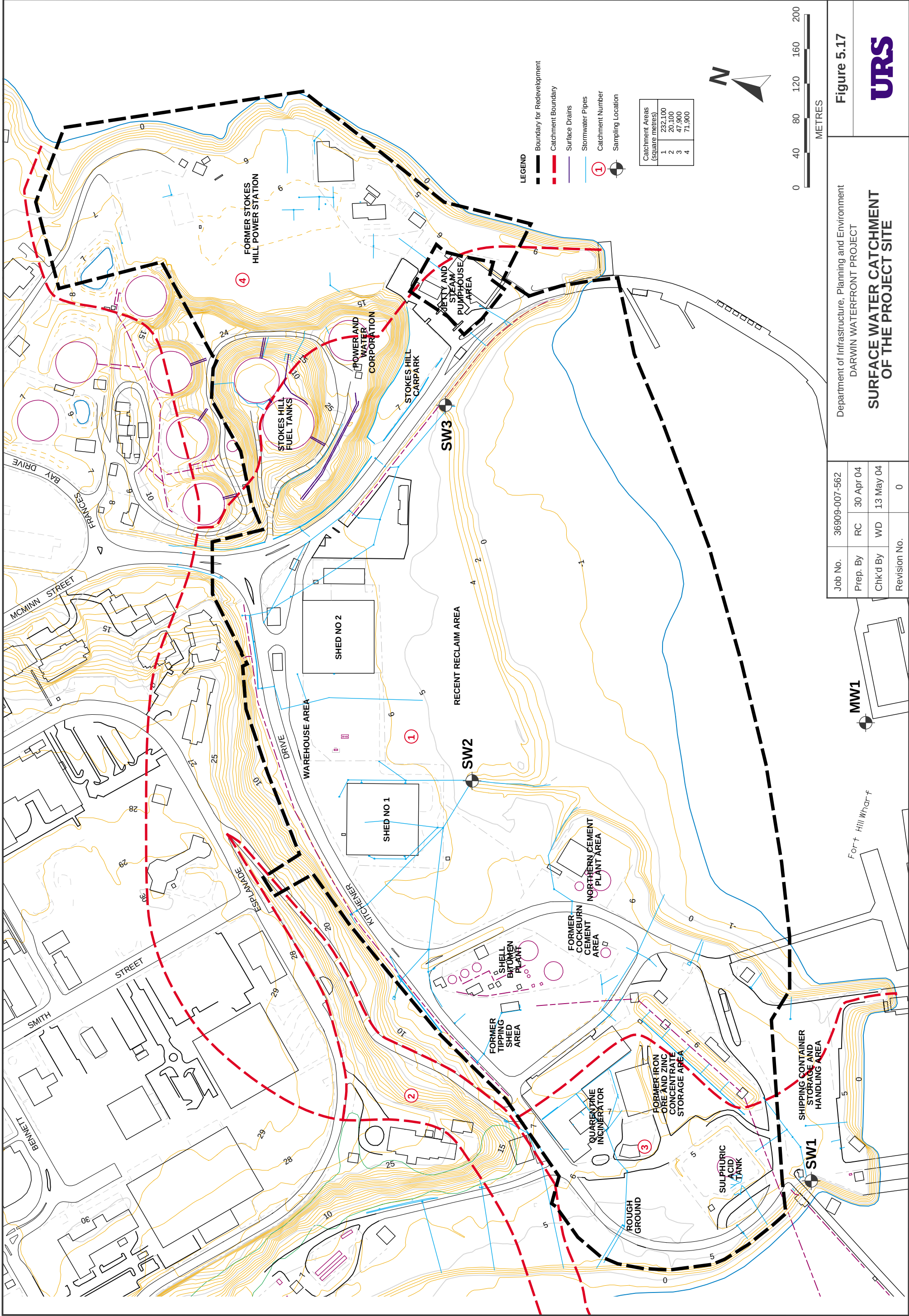
Department of Infrastructure, Planning and Environment
DARWIN WATERFRONT PROJECT

ESTIMATED POTENTIAL EXTENT OF HYDROCARBON IMPACTED GROUNDWATER
(Best Estimate as of 23 April 2004)

Figure 5.16

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Job No.	36909-007-562	Revision No.	1
Prep. By	JD	26 Apr 04	
Chk'd By	WD	13 May 04	



Department of Infrastructure, Planning and Environment

DARWIN WATERFRONT PROJECT

Job No. 36909-007-562

Prep. By RC 30 Apr 04

Chk'd By WD 13 May 04

Revision No. 0

Figure 5.17

SURFACE WATER CATCHMENT OF THE PROJECT SITE



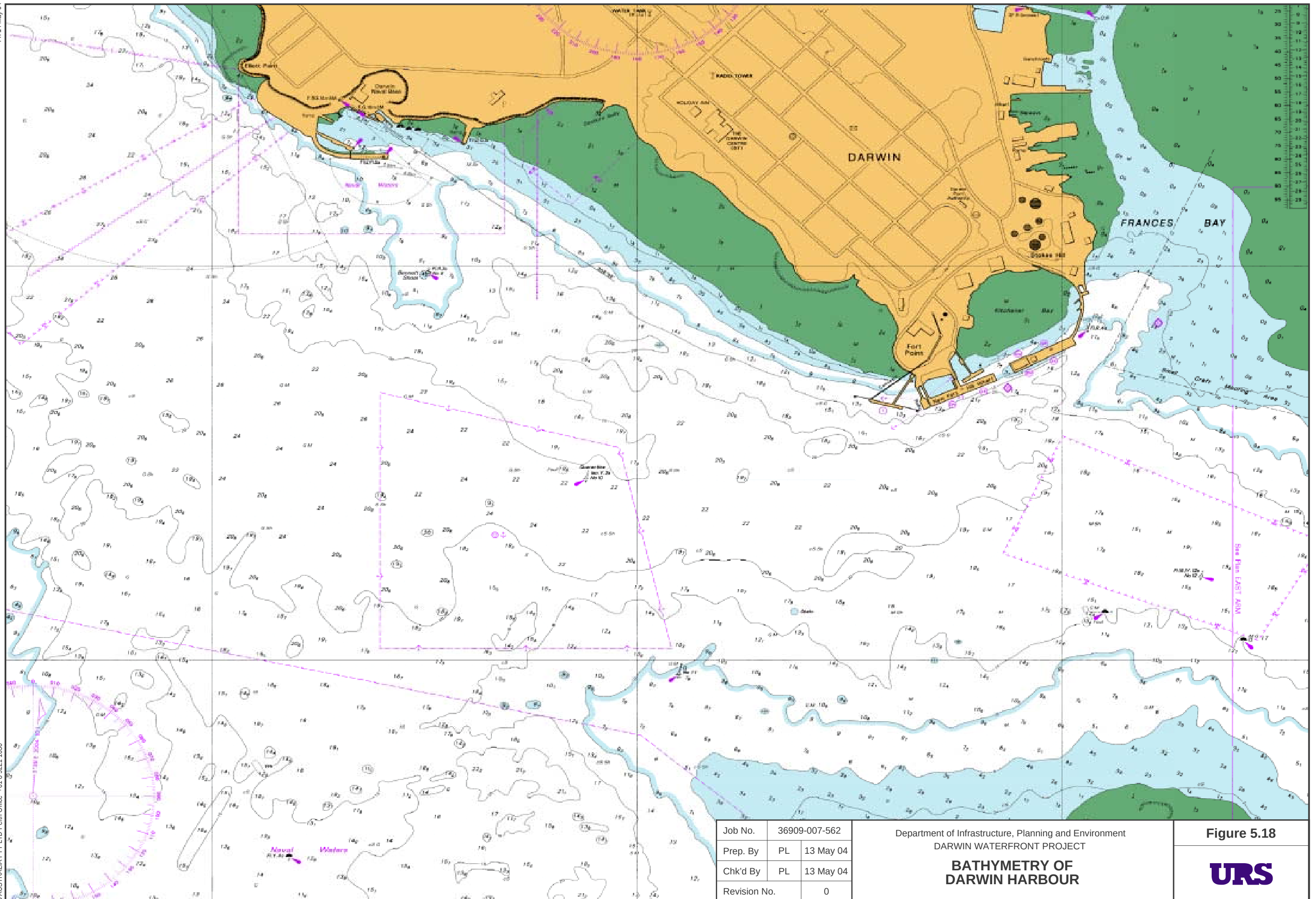


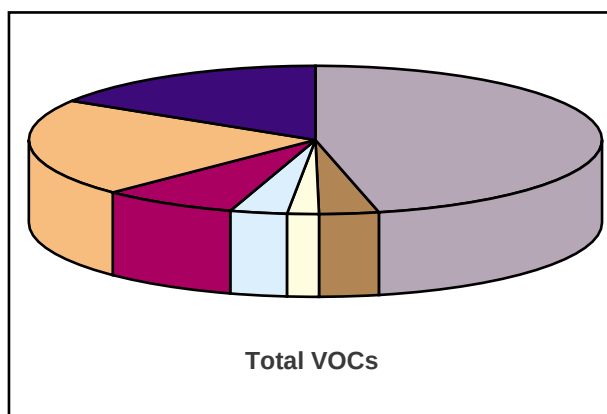
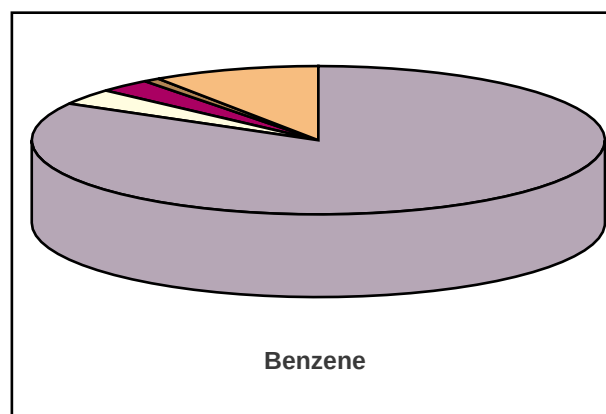
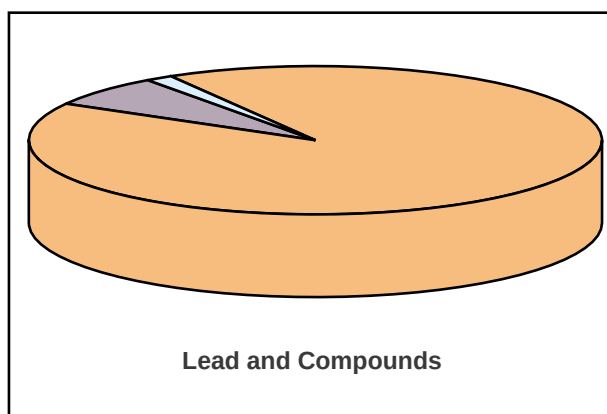
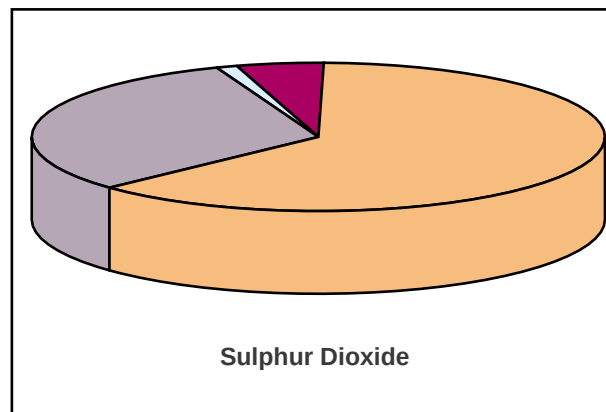
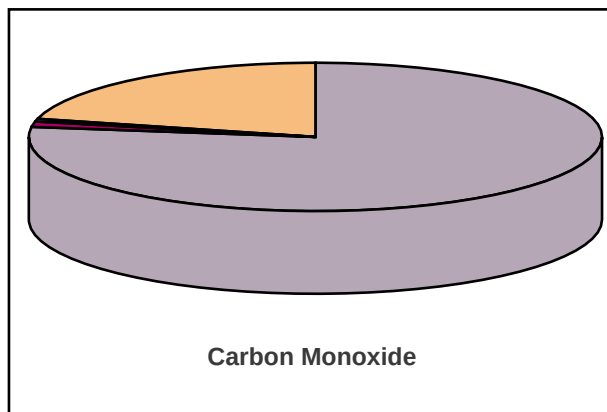
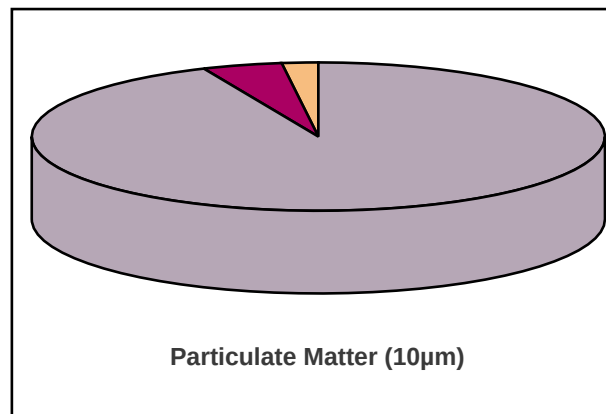
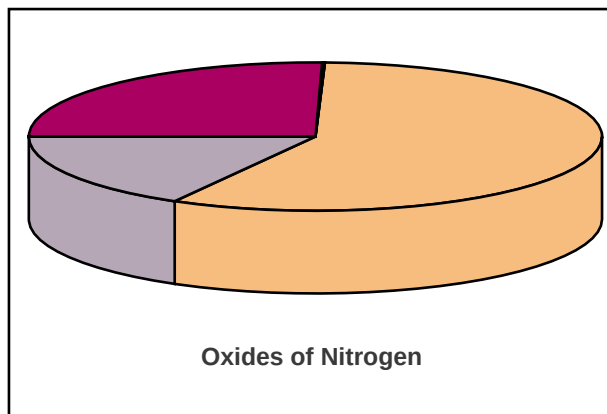
Figure 5.18

URS

Job No.	36909-007-562	
Prep. By	PL	13 May 04
Chk'd By	PL	13 May 04
Revision No.		0

Department of Infrastructure, Planning and Environment
DARWIN WATERFRONT PROJECT

BATHYMETRY OF DARWIN HARBOUR



LEGEND

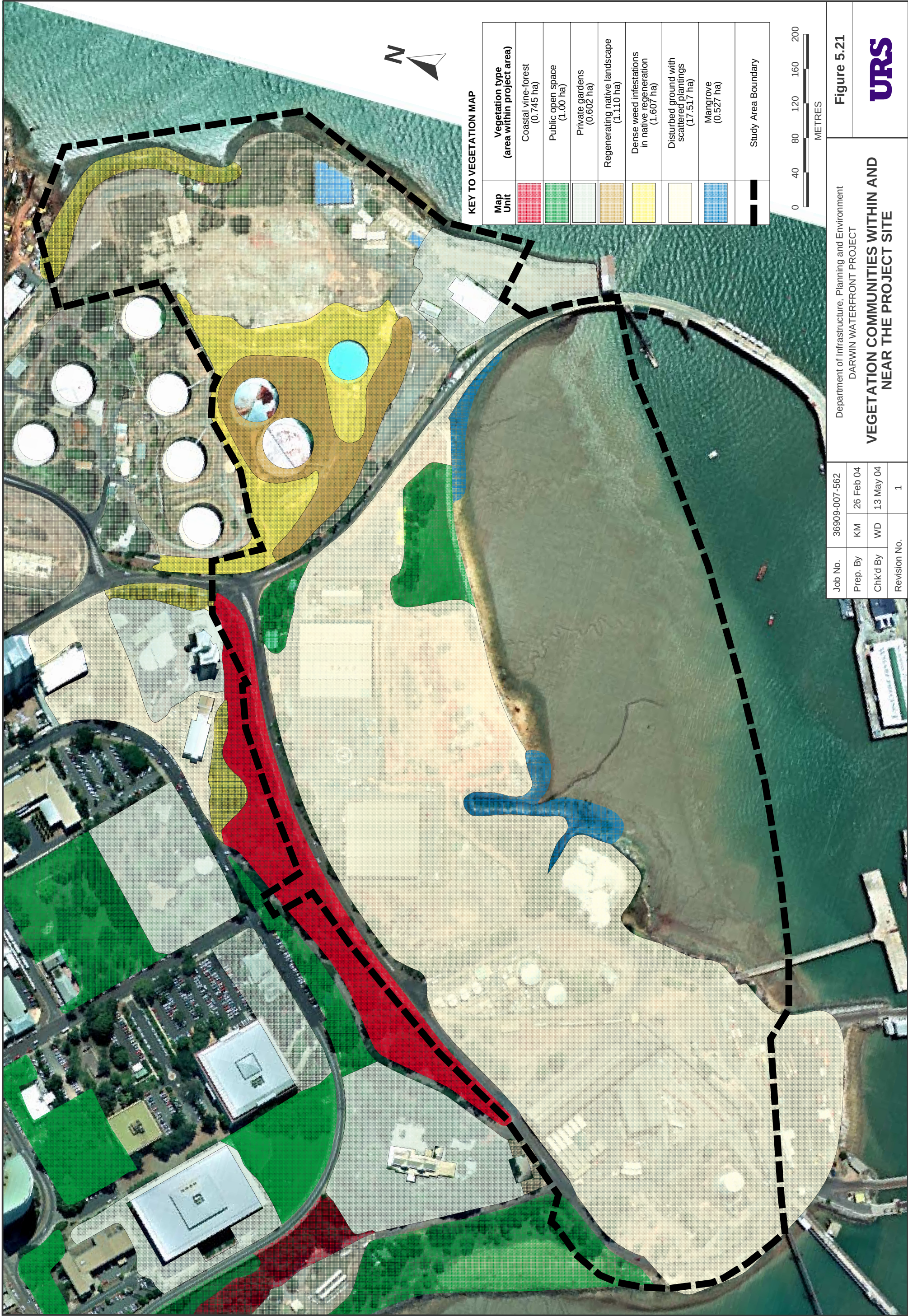
- Bushfires
- Commerce
- Households
- Industry
- Large Industry
- Transport
- Other

Job No.	36909-007-562	
Prep. By	JD	13 May 04
Chk'd By	PL	13 May 04
Revision No.	0	

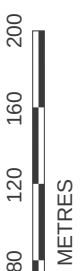
Department of Infrastructure, Planning and Environment
DARWIN WATERFRONT PROJECT
**RELATIVE CONTRIBUTION OF
KEY SOURCES TO AIR
POLLUTION IN THE DARWIN REGION**

Figure 5.20

URS



Map Unit	Vegetation type (area within project area)
	Coastal vine-forest (0.745 ha)
	Public open space (1.00 ha)
	Private gardens (0.602 ha)
	Regenerating native landscape (1.110 ha)
	Dense weed infestations in native regeneration (1.607 ha)
	Disturbed ground with scattered plantings (17.517 ha)
	Mangrove (0.527 ha)
	Study Area Boundary



Department of Infrastructure, Planning and Environment DARWIN WATERFRONT PROJECT		Figure 5.21	
Job No.	36909-007-562	VEGETATION COMMUNITIES WITHIN AND NEAR THE PROJECT SITE	
Prep. By	KM		
Chk'd By	WD		
Revision No.		1	URS



Symbol	Species	Significance
	<i>Pitcairnia moluccanum</i>	Listed as nt (near threatened) under IUCN threat status
	Various (refer to Appendix 3)	Trees listed on the GANT Register of Significant Trees, indicating register number
	<i>Pterocarpus indicus</i>	Exotic tree of potential retention value within future DCWR landscape
	<i>Peltaphorum pterocarpum</i>	Native tree of potential retention value within future DCWR landscape



Job No. 36909-007-562

Prep. By KM

Chk'd By WD

Revision No. 1

Department of Infrastructure, Planning and Environment
DARWIN WATERFRONT PROJECT

**TREES LISTED UNDER THE
REGISTER OF SIGNIFICANT TREES
(GREENING AUSTRALIA)**

Figure 5-22

URS



KEY	
	Coffee Bush (<i>Leucaena leucocephala</i>) in dense monospecific stands
	Other weed species including grasses, vines, herbaceous plants and Coffee Bush
	Relatively weed-free native vegetation

Job No. 36909-007-562		Department of Infrastructure, Planning and Environment DARWIN WATERFRONT PROJECT		Figure 5-23			
Prep. By KM	25 Mar 04	DISTRIBUTION OF WEEDS IN THE PROJECT AREA					
Chk'd By PL	13 May 04						
Revision No.		1		URS			



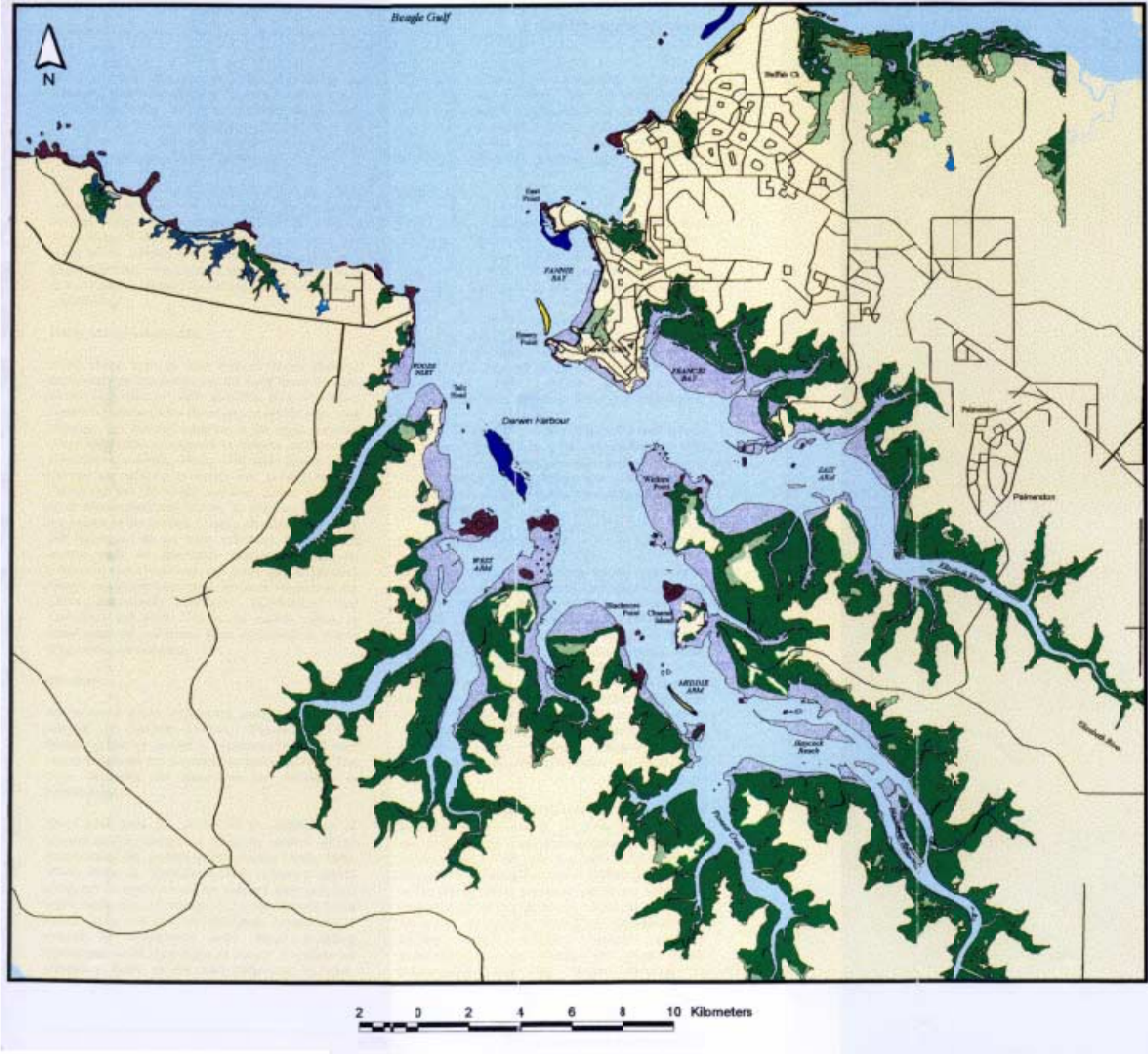
 Study area boundary
 Old cinema transect
 Stokes Hill transect
 Escarpment transect

0 300 m



SOURCE: Indicus Biological Consultants

Job No.	36909-007-562		Department of Infrastructure, Planning and Environment DARWIN WATERFRONT PROJECT LOCATION OF FAUNA SURVEY TRANSECTS	Figure 5.24
Prep. By	PL	30 Apr 04		
Chk'd By	WD	13 May 04		
Revision No.	0			



Northern Territory Coastal Resources Atlas

COASTAL FEATURES

- COASTAL SAND STRIP
- EMBANKMENT
- GENERAL RELIEF
- INTERTIDAL FLAT
- INTERTIDAL REEF
- MANGROVE
- NON-PERENNIAL SWAMP
- PERENNIAL SWAMP
- PERENNIAL WATER COURSE
- ROCK BARE OR AWASH
- ROCK LEDGE
- SALINE COASTAL FLAT
- SAND DUNES
- SUBMERGED ROCK

Compiled from:
DLP 1:25 000 Topographic mapping
- Mangroves, Intertidal flats
Lanc Unit Report "Darwin and Cox Peninsula"
- Saline Coastal flats, Non Perennial swamp
Aerial Photography Interpretation 1:10000 & 1:15000
- Embankment, Rock bare or awash, Coastal sand strip, Perennial swamp
Digitised from Admiralty charts AUS27 & Aus 28
- Intertidal Reef, Rock bare or awash, Submerged rock, Rock ledge.



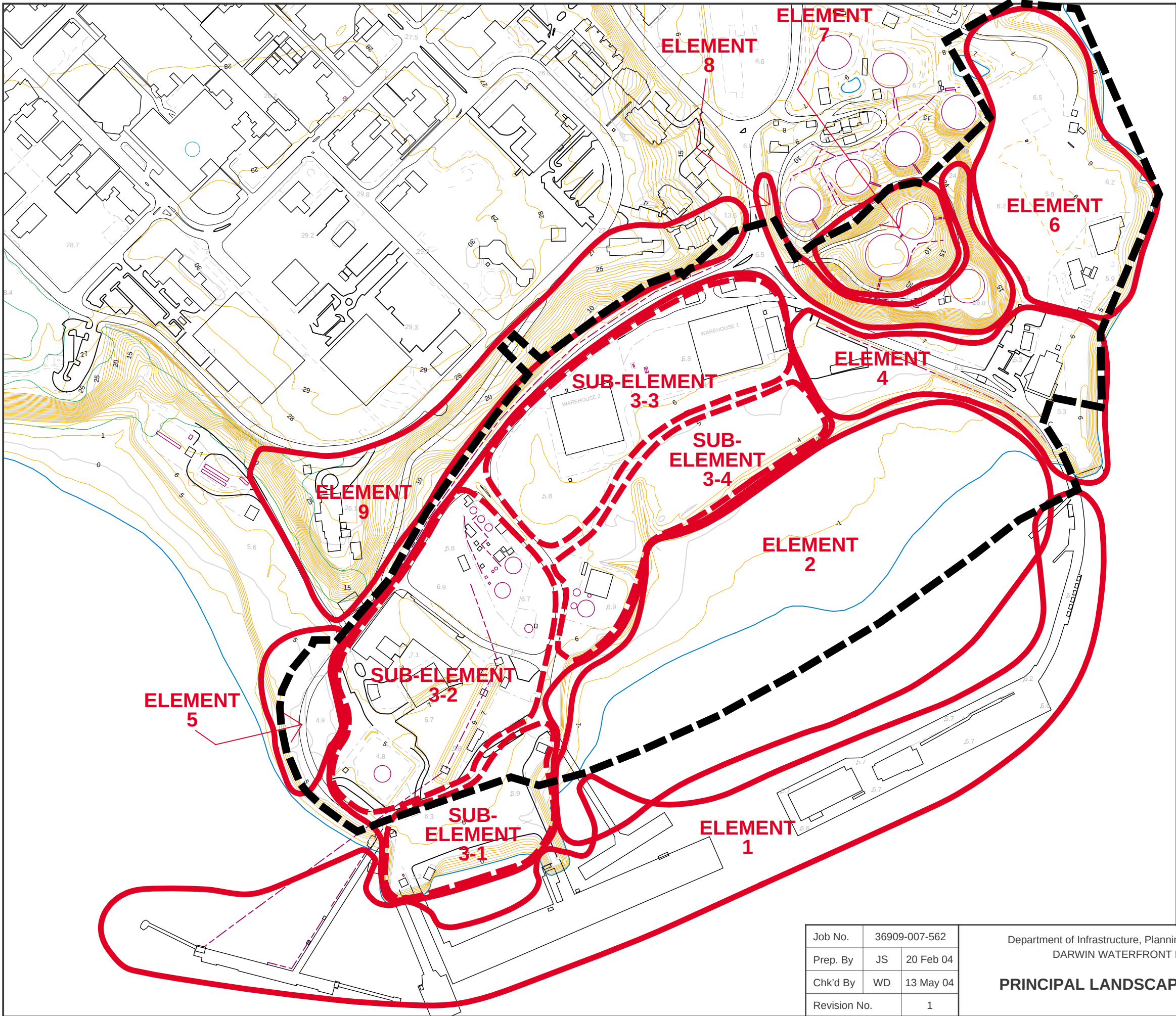
Produced by Department of Lands, Planning and Environment,
ENVIRONMENT PROTECTION DIVISION
Information on this map is to be used in conjunction with CRA reports.
UTM Projection Zone 52
June 1987.

Job No.	36909-007-562	
Prep. By	PL	30 Apr 04
Chk'd By	WD	13 May 04
Revision No.	0	

Department of Infrastructure, Planning and Environment
DARWIN WATERFRONT PROJECT
**DISTRIBUTION OF HABITAT TYPES
IN DARWIN HARBOUR**

Figure 5.25

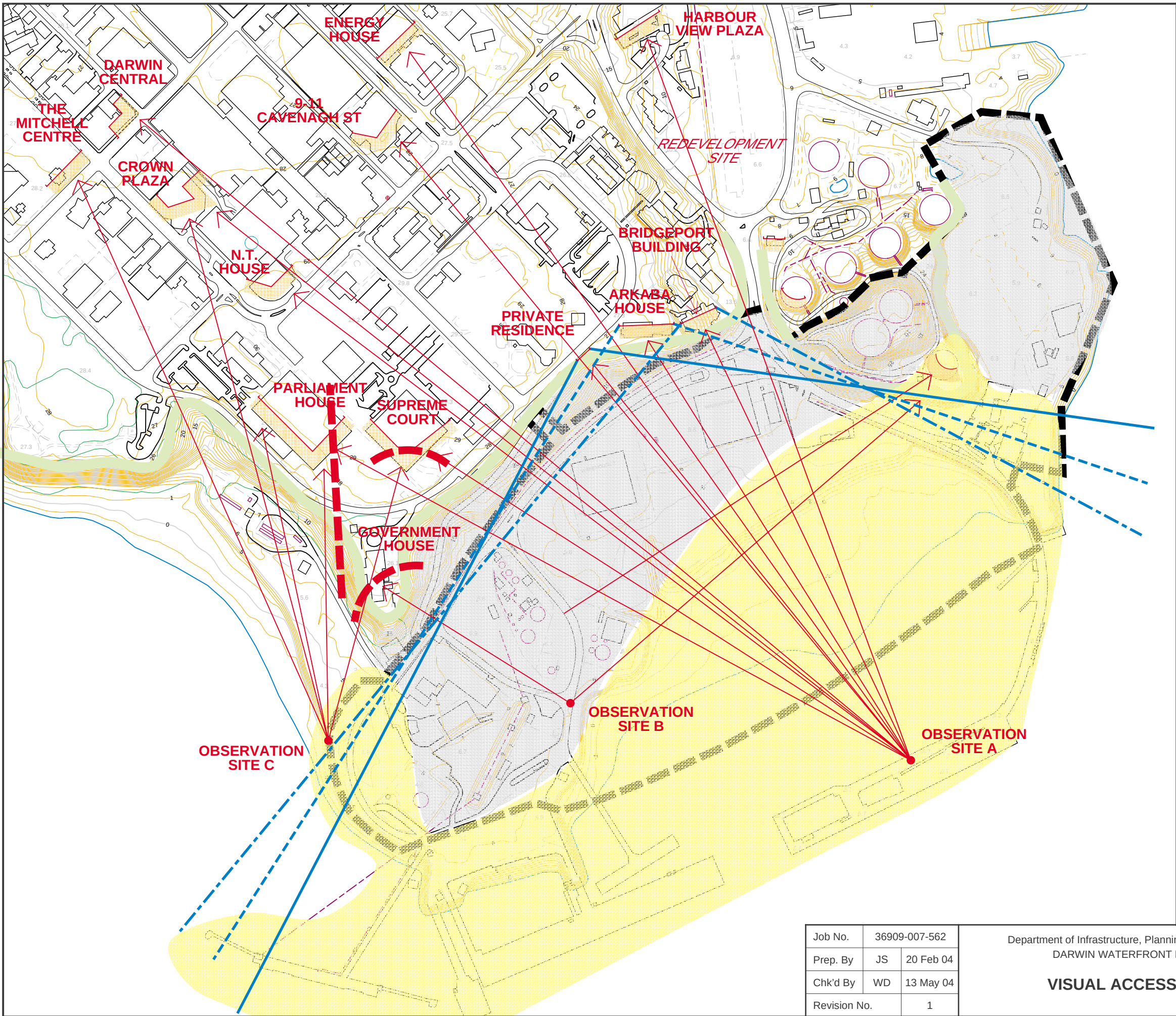




Job No.	36909-007-562	
Prep. By	JS	20 Feb 04
Chk'd By	WD	13 May 04
Revision No.	1	

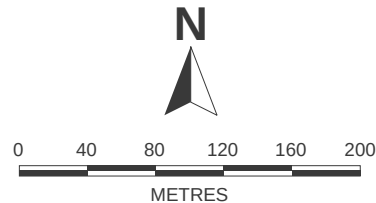
Department of Infrastructure, Planning and Environment DARWIN WATERFRONT PROJECT
PRINCIPAL LANDSCAPE ELEMENTS

Figure 5.26
URS



LEGEND

- MOST VISUALLY ACCESSIBLE PORTIONS OF THE SITE
- LEAST VISUALLY ACCESSIBLE PORTIONS OF THE SITE
- VISUAL CUT-OFF OR BARRIER
- 'TOP OF SCARP' VISUAL CUT-OFF
- SITE LINES FROM SPECIFIC OBSERVATION POINTS - TO CBD
- VISIBILITY OF CBD STRUCTURES (UPPER LEVELS)
- ARC-VIEWS FROM SELECTIVE BUILDINGS ON THE ESPLANADE
- STUDY AREA BOUNDARY



Job No.	36909-007-562	
Prep. By	JS	20 Feb 04
Chk'd By	WD	13 May 04
Revision No.	1	

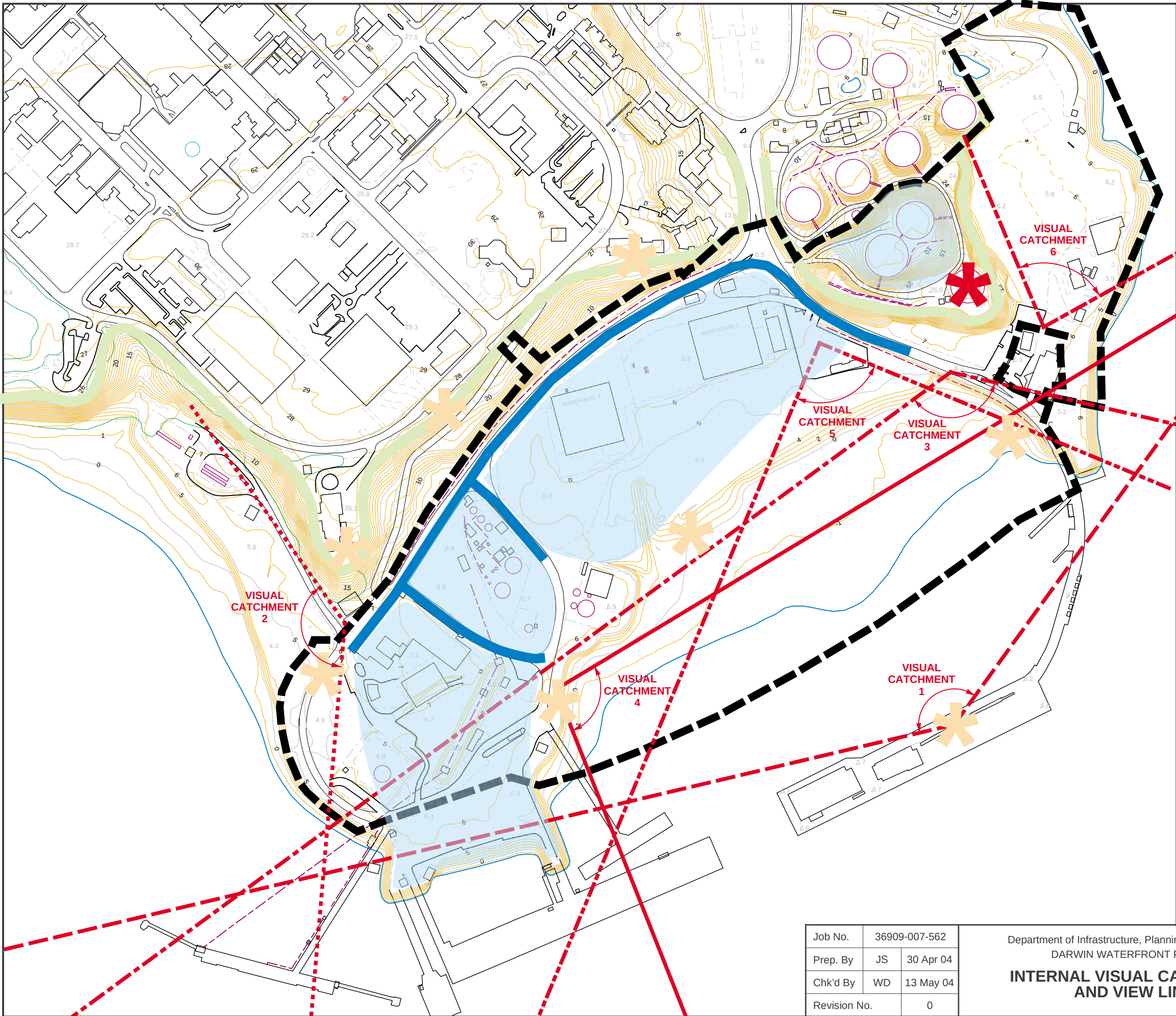
Department of Infrastructure, Planning and Environment
DARWIN WATERFRONT PROJECT

VISUAL ACCESSIBILITY

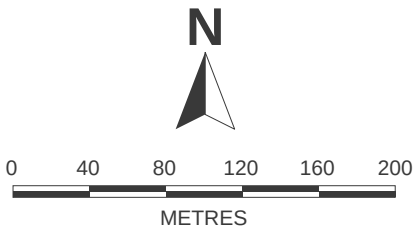
Figure 5.27



URS AUSTRALIA PTY LTD Perth Office +61 8 9221 1630
S:\Risk and Liability\DIPE\36909007 DRW Harbour Precinct Study\Drawing\035\36909007\03515-28.dgn



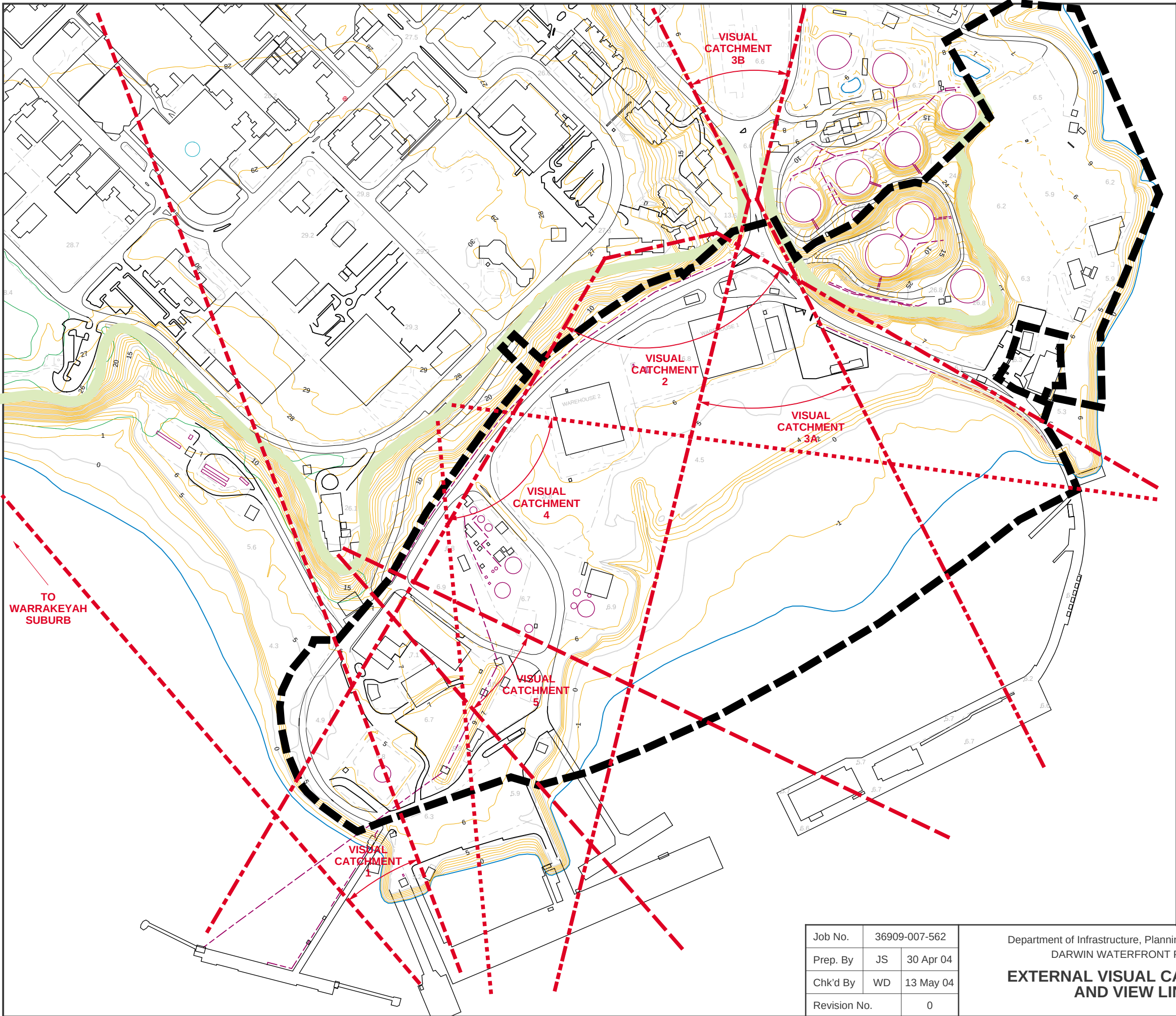
- LEGEND**
- FOREGROUND CLOSURE (LINEAR ROUTES)
 - ENCLOSED SITES (PARTIALLY OR FULLY)
 - 360° VISUAL VANTAGE POINT TO SITE
 - CRITICAL VISIBILITY LOCATIONS (VIEWLINES OF SIGNIFICANCE - POTENTIAL OR REALISED)
 - VISUAL CUT-OFF OR BARRIER



Job No.	36909-007-562	
Prep. By	JS	30 Apr 04
Chk'd By	WD	13 May 04
Revision No.	0	

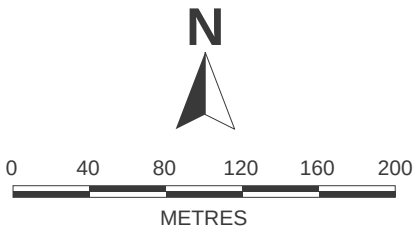
Department of Infrastructure, Planning and Environment
DARWIN WATERFRONT PROJECT
**INTERNAL VISUAL CATCHMENTS
AND VIEW LINES**

Figure 5.28
URS



LEGEND

VISUAL CLOSURE
(TO THE SITE)

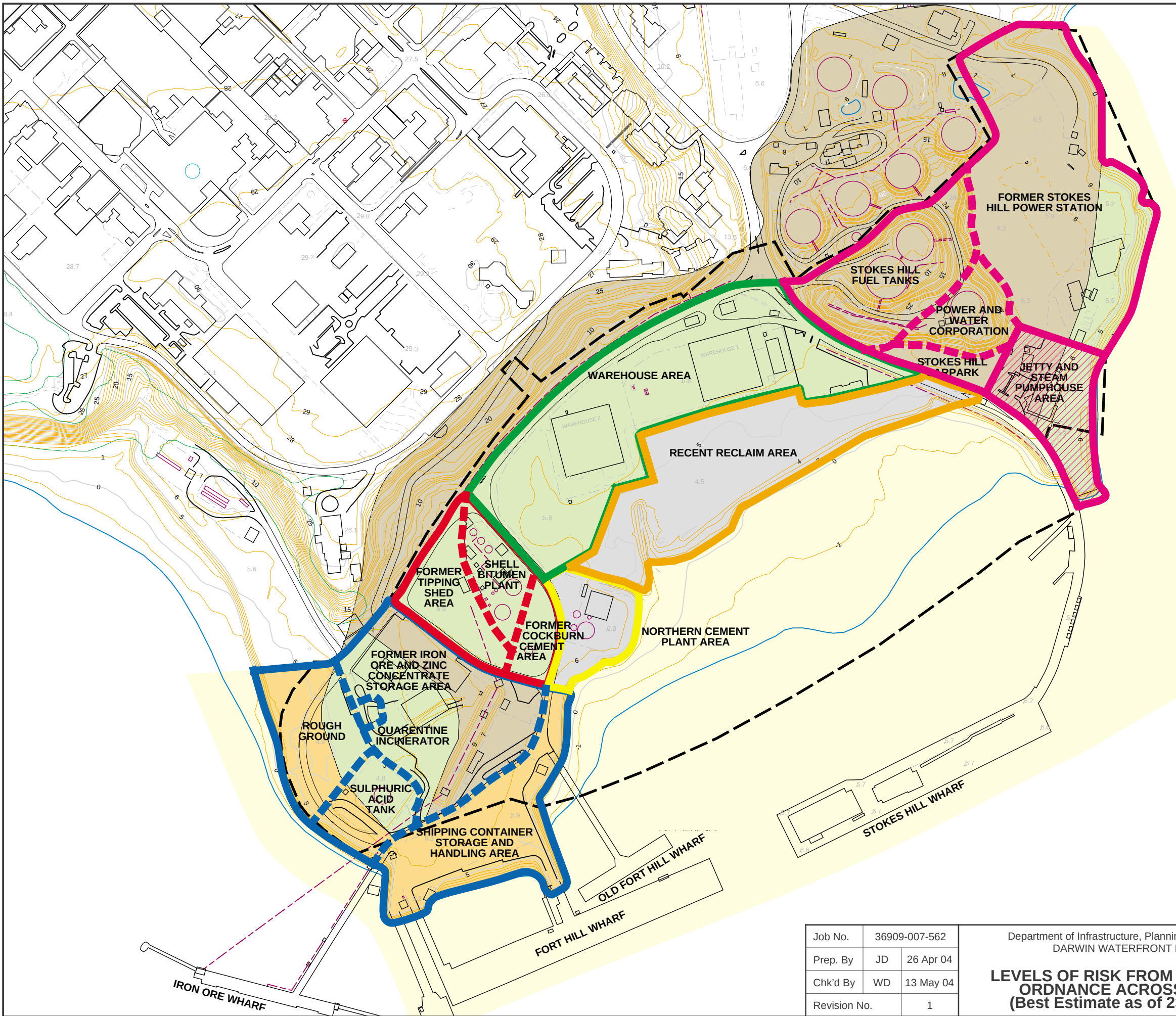


Job No.	36909-007-562	
Prep. By	JS	30 Apr 04
Chk'd By	WD	13 May 04
Revision No.	0	

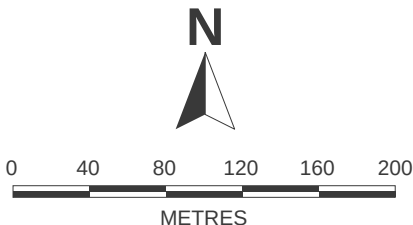
Department of Infrastructure, Planning and Environment
DARWIN WATERFRONT PROJECT
**EXTERNAL VISUAL CATCHMENTS
AND VIEW LINES**

Figure 5.29





- LEGEND**
- Stokes Hill Area
 - Bitumen Plant Area
 - Fort Hill Area
 - Northern Cement Plant Area
 - Recent Reclaimed Area
 - Warehouse Area
 - To be retained
 - UXO/EO Potential in old land forms
 - UXO/EO Potential in/under fill
 - UXO/EO Potential under fill
 - UXO/EO Potential in harbour muds
 - EO Potential under fill (ex salvage)



Job No.	36909-007-562
Prep. By	JD 26 Apr 04
Chk'd By	WD 13 May 04
Revision No.	1

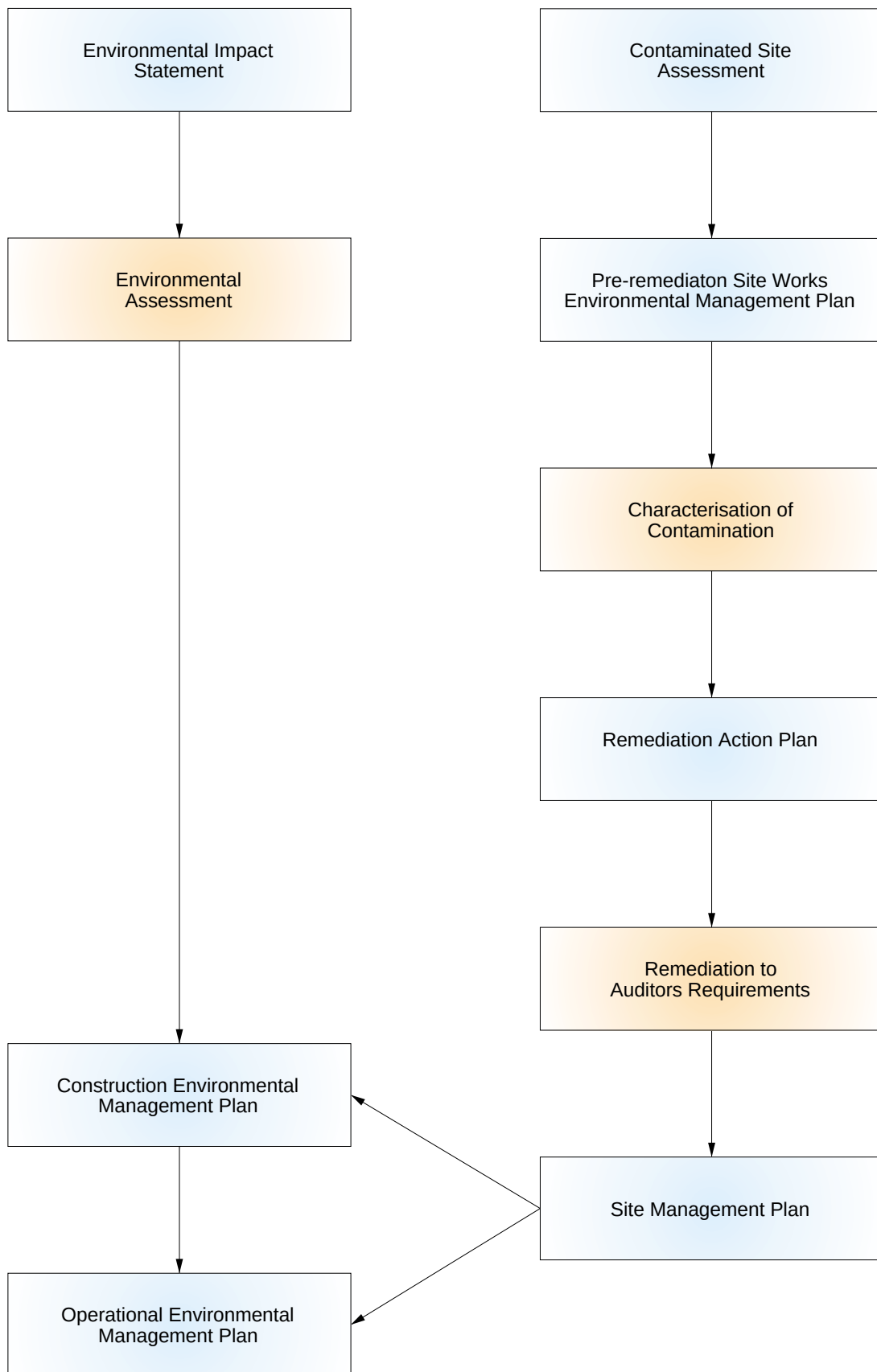
Department of Infrastructure, Planning and Environment
DARWIN WATERFRONT PROJECT

**LEVELS OF RISK FROM UNEXPLODED
ORDNANCE ACROSS THE SITE
(Best Estimate as of 23 April 2004)**



Job No.		36909-007-562		Department of Infrastructure, Planning and Environment DARWIN WATERFRONT PROJECT HISTORICAL FEATURES OF THE PROJECT SITE (1869-1904)	
Prep. By		PL			
Chk'd By		WD			
Revision No.		0			





Job No.	36909-007-562	Department of Infrastructure, Planning and Environment DARWIN WATERFRONT PROJECT INTER-RELATIONSHIP BETWEEN THE ENVIRONMENTAL ASSESSMENT PROCESS AND THE CONTAMINATED SITE ASSESSMENT	Figure 8.1
Prep. By	PL 30 Apr 04		
Chk'd By	WD 13 May 04		
Revision No.	1		