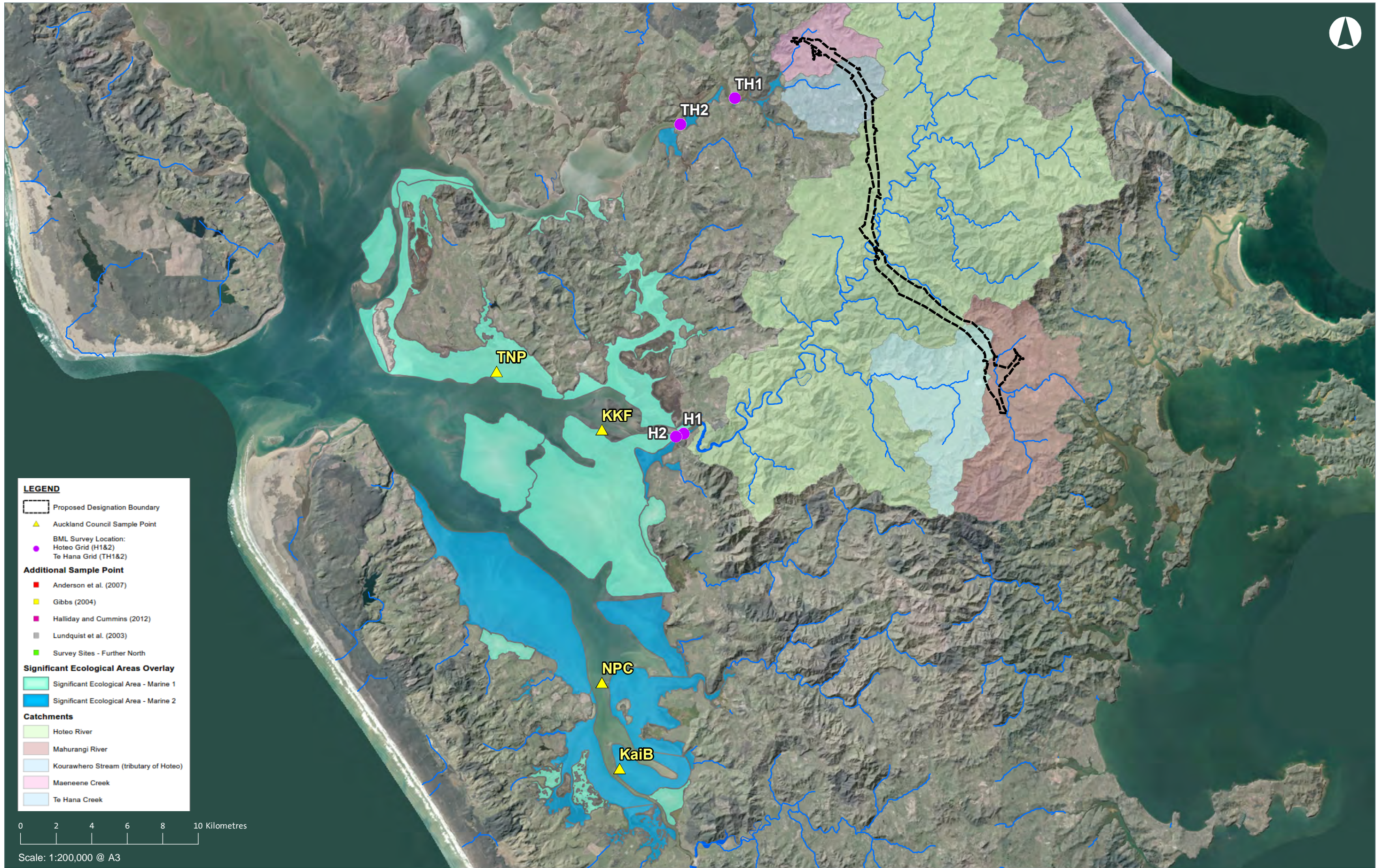


**LEGEND**

- Proposed Designation Boundary
- ▲ Auckland Council Sample Point
- BML Survey Location:  
Hotoe Grid (H1&2)  
Te Hana Grid (TH1&2)
- Additional Sample Point**
- Anderson et al. (2007)
- Gibbs (2004)
- Halliday and Cummins (2012)
- Lundquist et al. (2003)
- Survey Sites - Further North
- Significant Ecological Areas Overlay**
- Significant Ecological Area - Marine 1
- Significant Ecological Area - Marine 2
- Catchments**
- Hotoe River
- Mahurangi River
- Kourawhero Stream (tributary of Hotoe)
- Maeneene Creek
- Te Hana Creek

0 2 4 6 8 10 Kilometres  
Scale: 1:200,000 @ A3

				DO NOT SCALE	FOR RMA APPROVALS	Project <b>WARKWORTH TO WELLSFORD PROJECT</b> Title <b>MARINE ECOLOGICAL ASSESSMENT KAIPARA AND MAHURANGI HARBOURS</b>												
Conditions of Use: This document may only be used by The JV's client (and any other person who The JV has agreed can use this document) for the purpose for which it was prepared and must not be used by any other person or for any other purpose.	Drawn MDu    Drafting Check JB*    Designed SDL*    Design Check DR* Approved BN*    Date JULY 2019	Scale 1:200,000    This Drawing must not be used for Construction unless signed as Approved    Original Size <b>A3</b>	Contract: <b>PA4156</b> Drawing No: <b>ME-011</b> Sheet: <b>1 OF 3</b> Rev: <b>0</b>															
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No	Revision	Drawn	Checked	Approved	Date													
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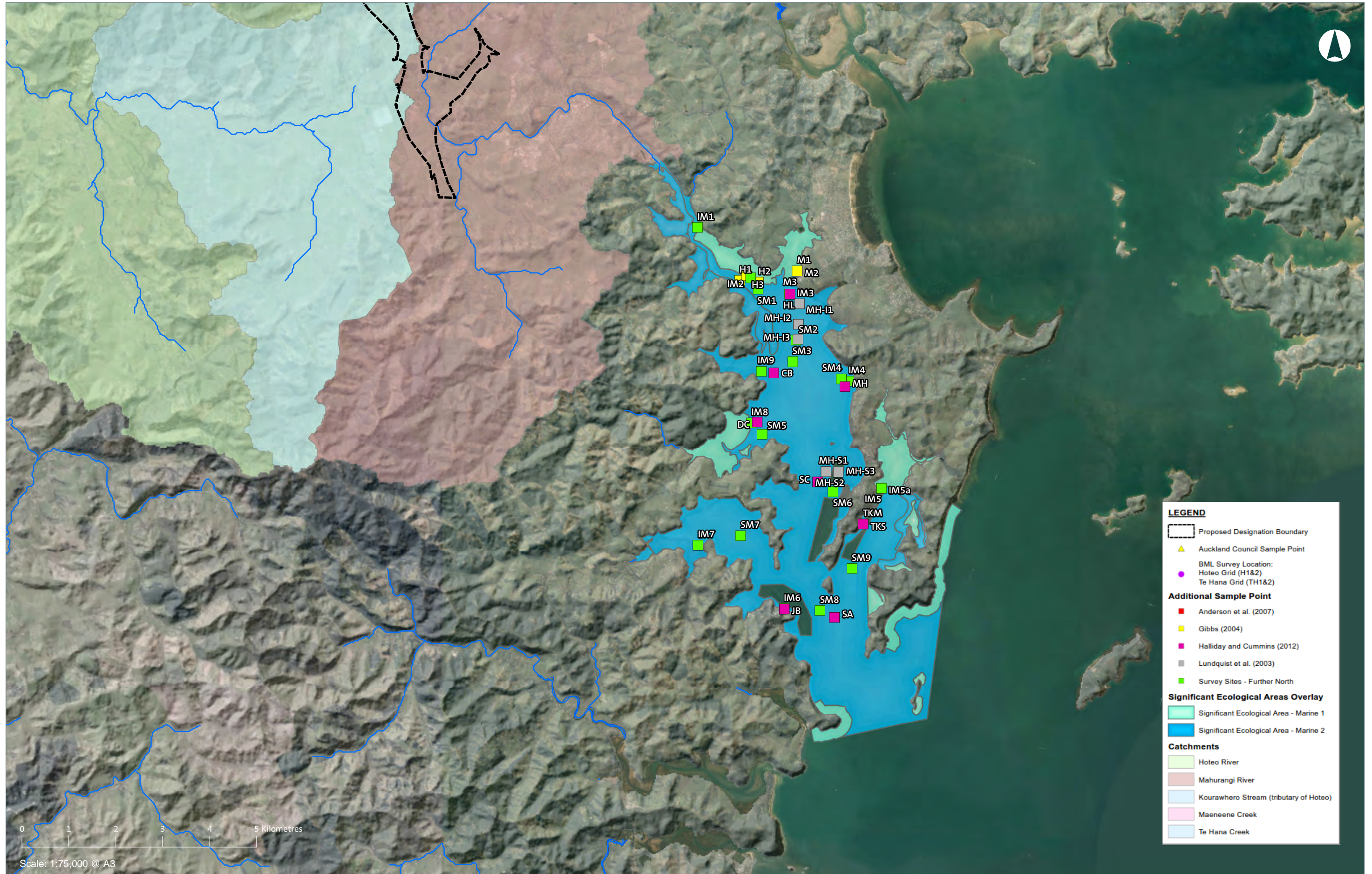
**LEGEND**

- Proposed Designation Boundary
- ▲ Auckland Council Sample Point
- BML Survey Location:
  - Hoteo Grid (H1&2)
  - Te Hana Grid (TH1&2)
- Additional Sample Point**
  - Anderson et al. (2007)
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  - Hoteo River
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  - Kourawhero Stream (tributary of Hoteo)
  - Maeneene Creek
  - Te Hana Creek

0 2 4 6 8 10 Kilometres

Scale: 1:200,000 @ A3

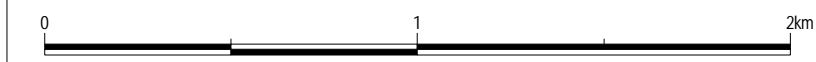
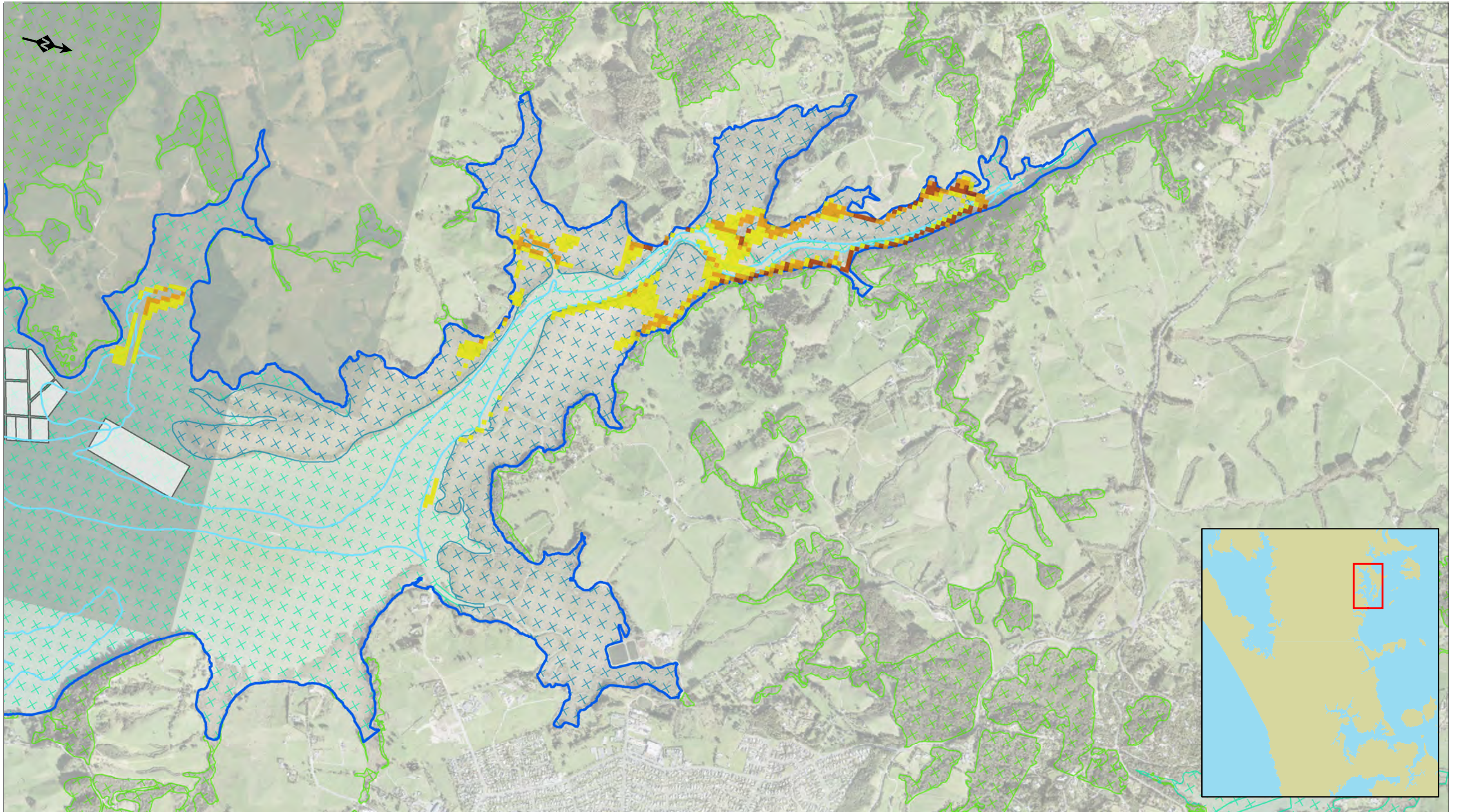
				DO NOT SCALE	FOR RMA APPROVALS	Project <b>WARKWORTH TO WELLSFORD PROJECT</b>																								
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Drawn MDu	Drafting Check JB*	Designed SDL*	Design Check DR*																											
Approved BN*		Date JULY 2019																												
Scale 1:200,000		This Drawing must not be used for Construction unless signed as Approved																												
		Original Size	A3																											
Title <b>MARINE ECOLOGICAL ASSESSMENT KAIPARA HARBOUR</b>																														
Contract: PA4156	Drawing No: ME-012	Sheet: 2 OF 3	Rev: A																											
0 FOR RMA APPROVALS	MDu	JB*	BN*	07/19																										
No	Revision	Drawn	Checked	Approved	Date																									



**LEGEND**

- Proposed Designation Boundary
- Auckland Council Sample Point
- BML Survey Location:
  - Hoteo Grid (H1&2)
  - Te Hana Grid (TH1&2)
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  - Anderson et al. (2007)
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  - Hoteo River
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  - Kourawhero Stream (tributary of Hoteo)
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  - Te Hana Creek

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										Drawn MDu    Drafting Check JB*    Designed SDL*    Design Check DR*		Title <b>MARINE ECOLOGICAL ASSESSMENT MAHURANGI HARBOUR</b>			
0 FOR RMA APPROVALS				MDu    JB*    BN*    07/19						Approved BN*    Date JULY 2019		Contract: <b>PA4156</b> Drawing No: <b>ME-013</b> Sheet: <b>3 OF 3</b> Rev: <b>0</b>			
No    Revision				Drawn    Checked    Approved    Date						Scale 1:75,000    This Drawing must not be used for Construction unless signed as Approved    Original Size <b>A3</b>					



**LEGEND**

- Area of Additional Deposition above 10mm
- Area of Additional Deposition above 5mm
- Area of Additional Deposition above 3mm
- Aquaculture Farms
- Low Astronomical Tide
- Mean High Water Springs
- Significant Ecological Areas**
- Terrestrial [rp/dp]
- Marine 1 [rcp]
- Marine 2 [rcp]

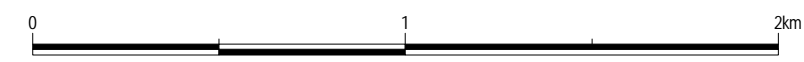
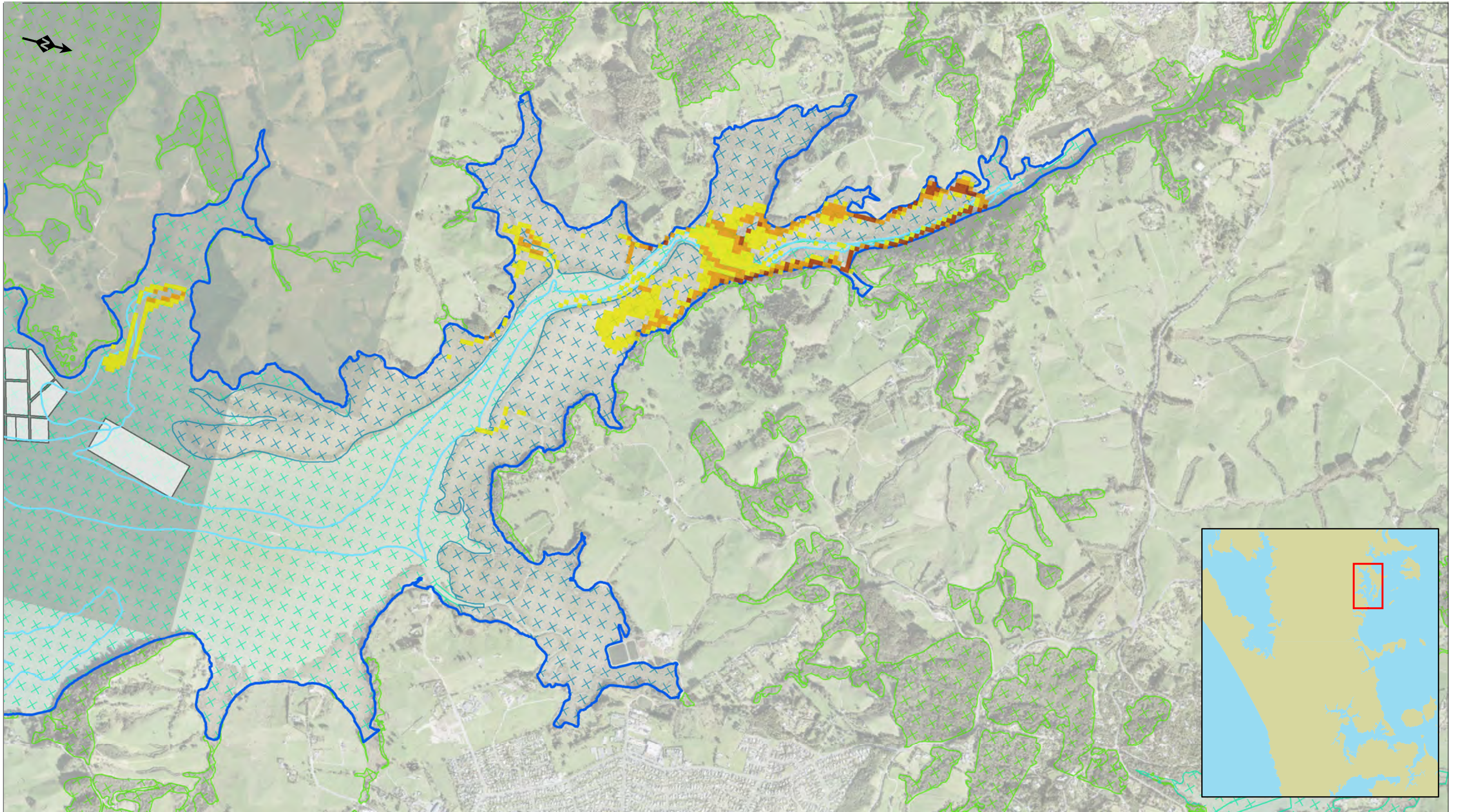
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Project	<b>WARKWORTH TO WELLSFORD PROJECT</b>		
Title	<b>MAHURANGI SEDIMENT DEPOSITION SCENARIO: 10 year Rainfall Event of 3 day Duration Calm Winds and Short Term Baseline Scenario</b>		
Contract:	PA4156	Drawing No:	ME-014
Sheet:	1 OF 8	Rev:	0



LEGEND	
Area of Additional Deposition above 10mm	Aquaculture Farms
Area of Additional Deposition above 5mm	Low Astronomical Tide
Area of Additional Deposition above 3mm	Mean High Water Springs
Significant Ecological Areas Terrestrial [rp/dp]	Marine 1 [rcp]
Significant Ecological Areas Marine 2 [rcp]	

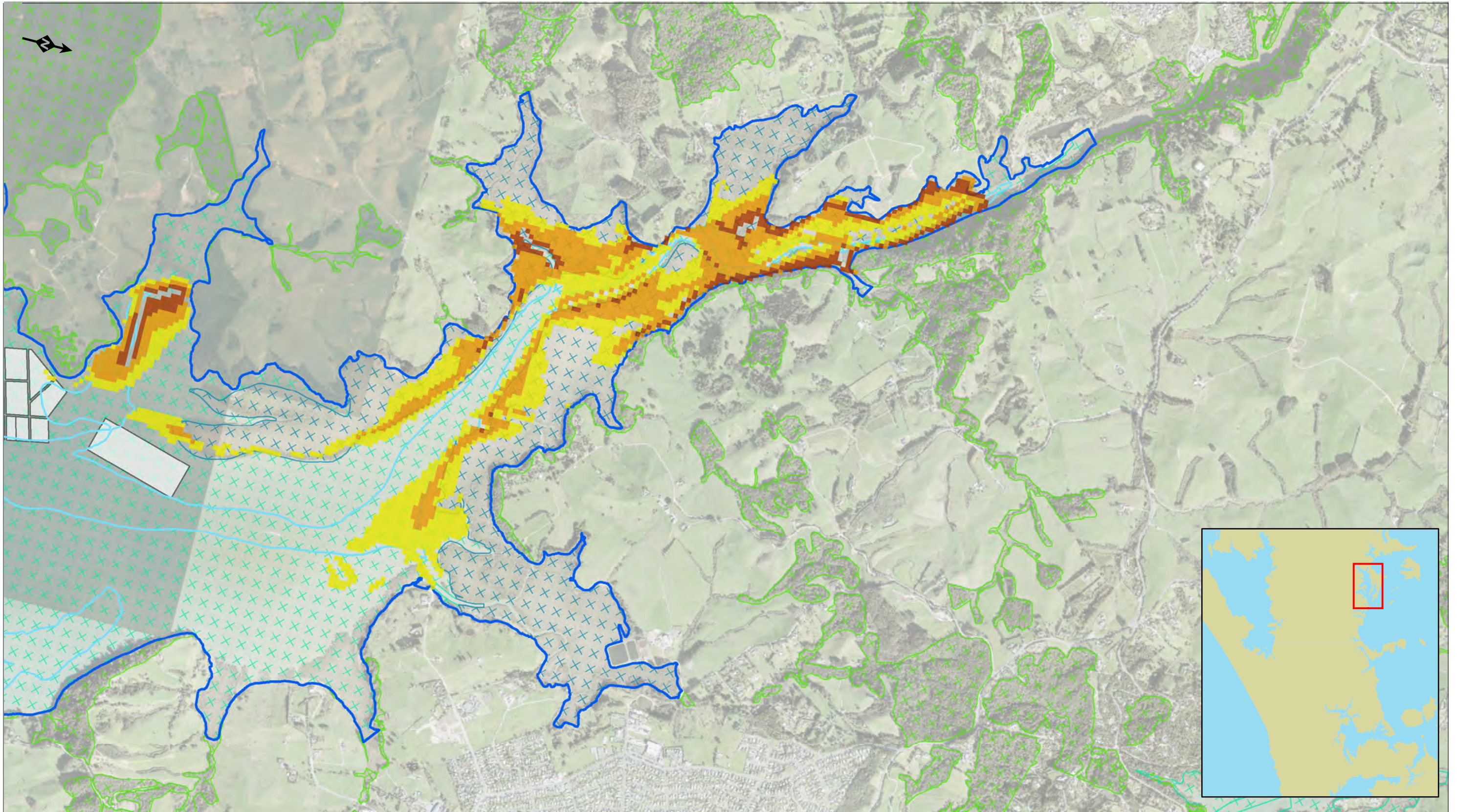
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No	Revision	Drawn	Checked	Approved	Date



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Approved	BN*		Date
Scale	NTS		JULY 2019
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			A3

Project	<b>WARKWORTH TO WELLSFORD PROJECT</b>		
Title	<b>MAHURANGI SEDIMENT DEPOSITION SCENARIO: 10 year Rainfall Event of 3 day Duration ENE Winds and Short Term Baseline Scenario</b>		
Contract:	PA4156	Drawing No:	ME-015
Sheet:	2 OF 8	Rev:	0



**LEGEND**

- Area of Additional Deposition above 10mm
- Area of Additional Deposition above 5mm
- Area of Additional Deposition above 3mm
- Aquaculture Farms
- Low Astronomical Tide
- Mean High Water Springs
- Significant Ecological Areas**
- Terrestrial [rp/dp]
- Marine 1 [rcp]
- Marine 2 [rcp]

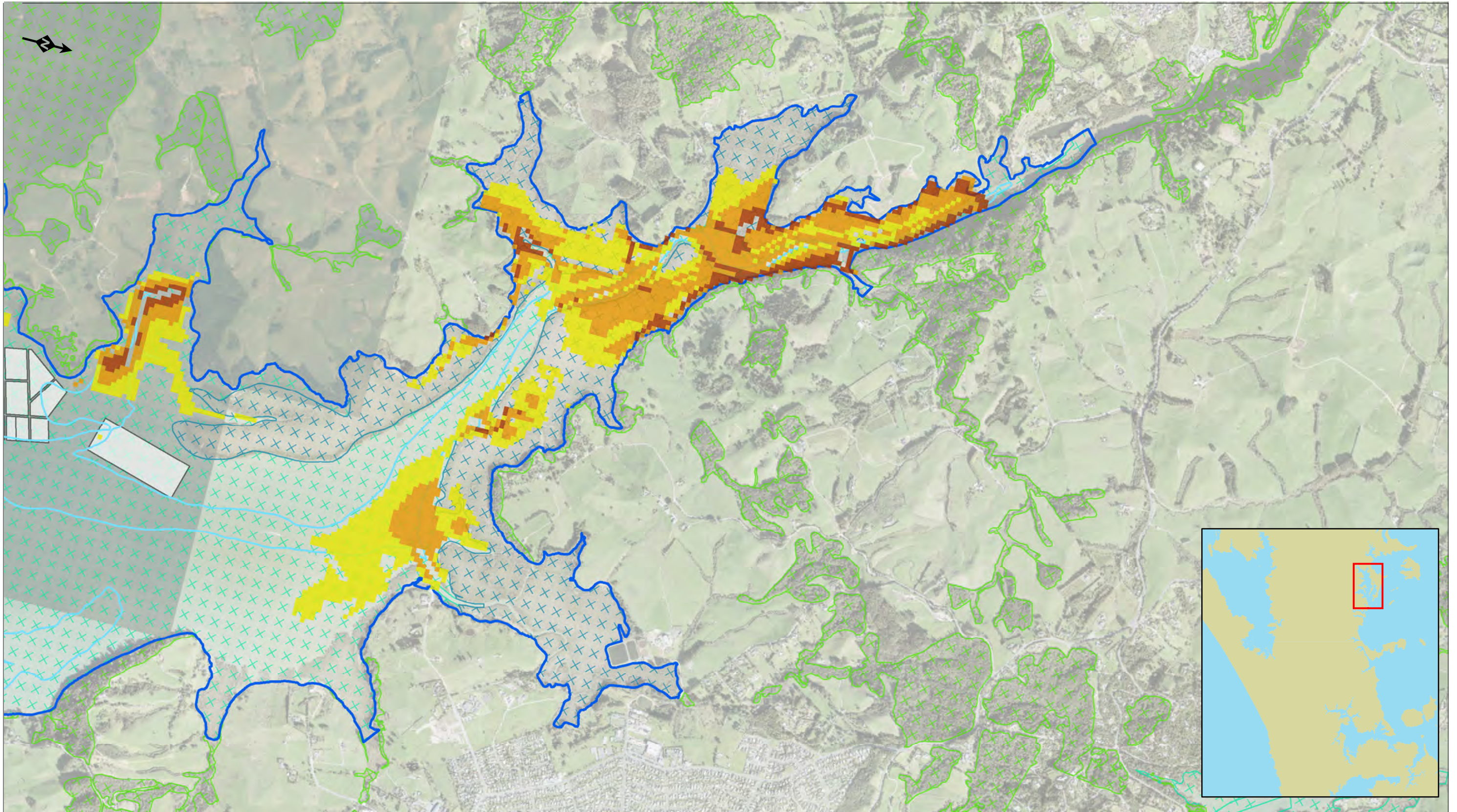
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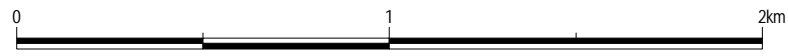
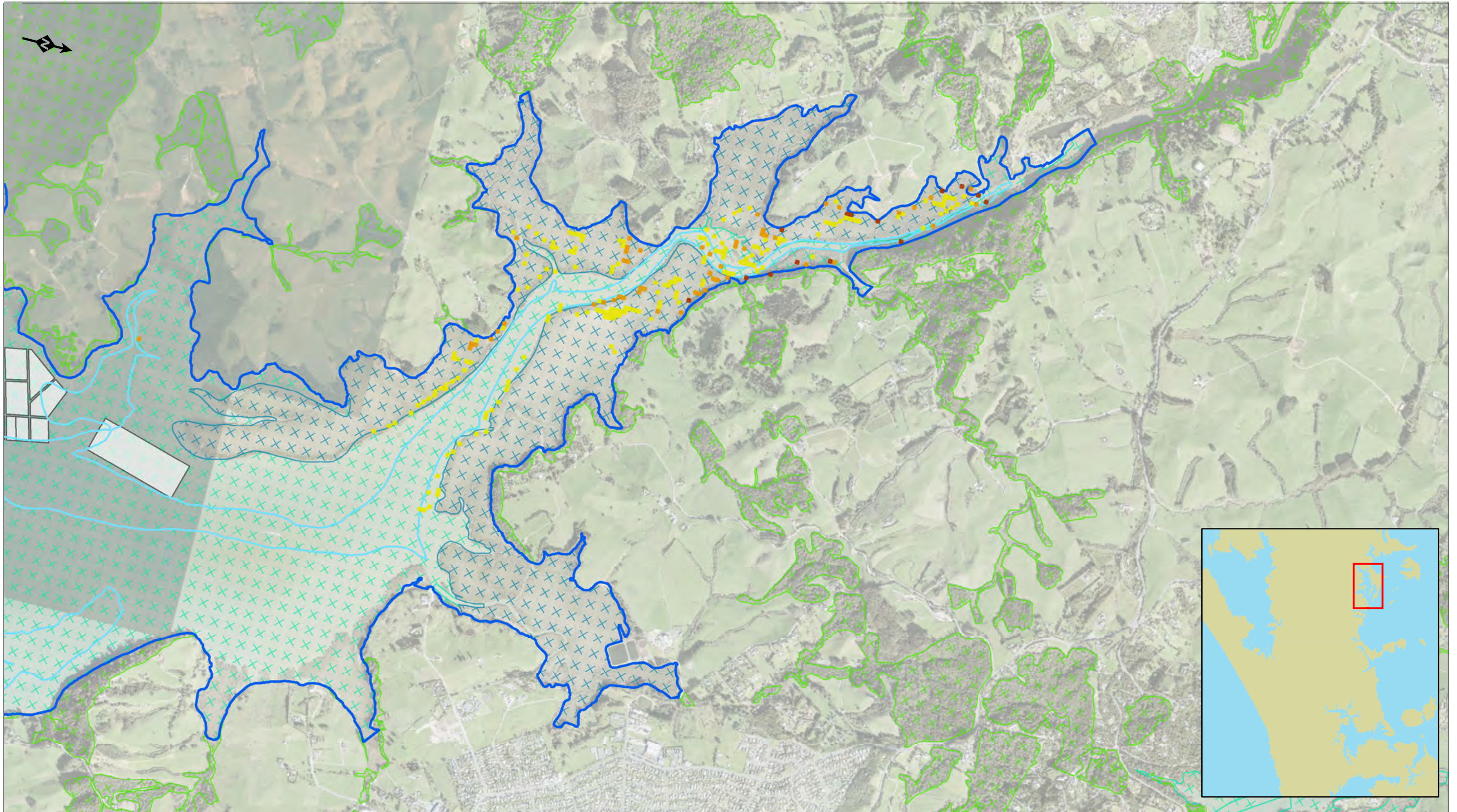
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Approved BN*		Date JULY 2019	
Scale NTS	This Drawing must not be used for Construction unless signed as Approved		Original Size A3

Project <b>WARKWORTH TO WELLSFORD PROJECT</b>	Title <b>MAHURANGI SEDIMENT DEPOSITION SCENARIO: 50 year Rainfall Event of 3 day Duration Calm Winds and Short Term Baseline Scenario</b>
Contract: <b>PA4156</b>	Drawing No: <b>ME-016</b>
Sheet: <b>3 OF 8</b>	Rev: <b>0</b>



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0 ISSUED FOR RMA APPROVALS	NR JB* BN* 07/19				<b>DO NOT SCALE</b>	<b>FOR RMA APPROVALS</b>	Project <b>WARKWORTH TO WELLSFORD PROJECT</b> Title <b>MAHURANGI SEDIMENT DEPOSITION SCENARIO: 50 year Rainfall Event of 3 day Duration ENE Winds and Short Term Baseline Scenario</b>
					Conditions of Use: This document may only be used by The JV's client (and any other person who The JV has agreed can use this document) for the purpose for which it was prepared and must not be used by any other person or for any other purpose.	Drawn NR    Drafting JB* Checked    Design Approved BN*    Date JULY 2019	Contract: <b>PA4156</b> Drawing No: <b>ME-017</b> Sheet: <b>4 OF 8</b> Rev: <b>0</b>
					Scale NTS    Date    Original Size <small>This Drawing must not be used for Construction unless signed as Approved</small> <b>A3</b>		



**NOTES**  
Assume peak earthworks season

**LEGEND**

- Area of Additional Deposition above 10mm
- Area of Additional Deposition above 5mm
- Area of Additional Deposition above 3mm
- Aquaculture Farms
- Low Astronomical Tide
- Mean High Water Springs
- Significant Ecological Areas**
- Terrestrial [rp/dp]
- Marine 1 [rcp]
- Marine 2 [rcp]

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No	Revision	Drawn	Checked	Approved	Date

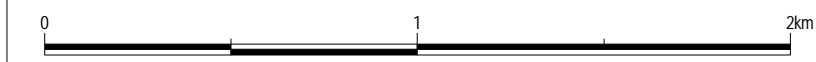
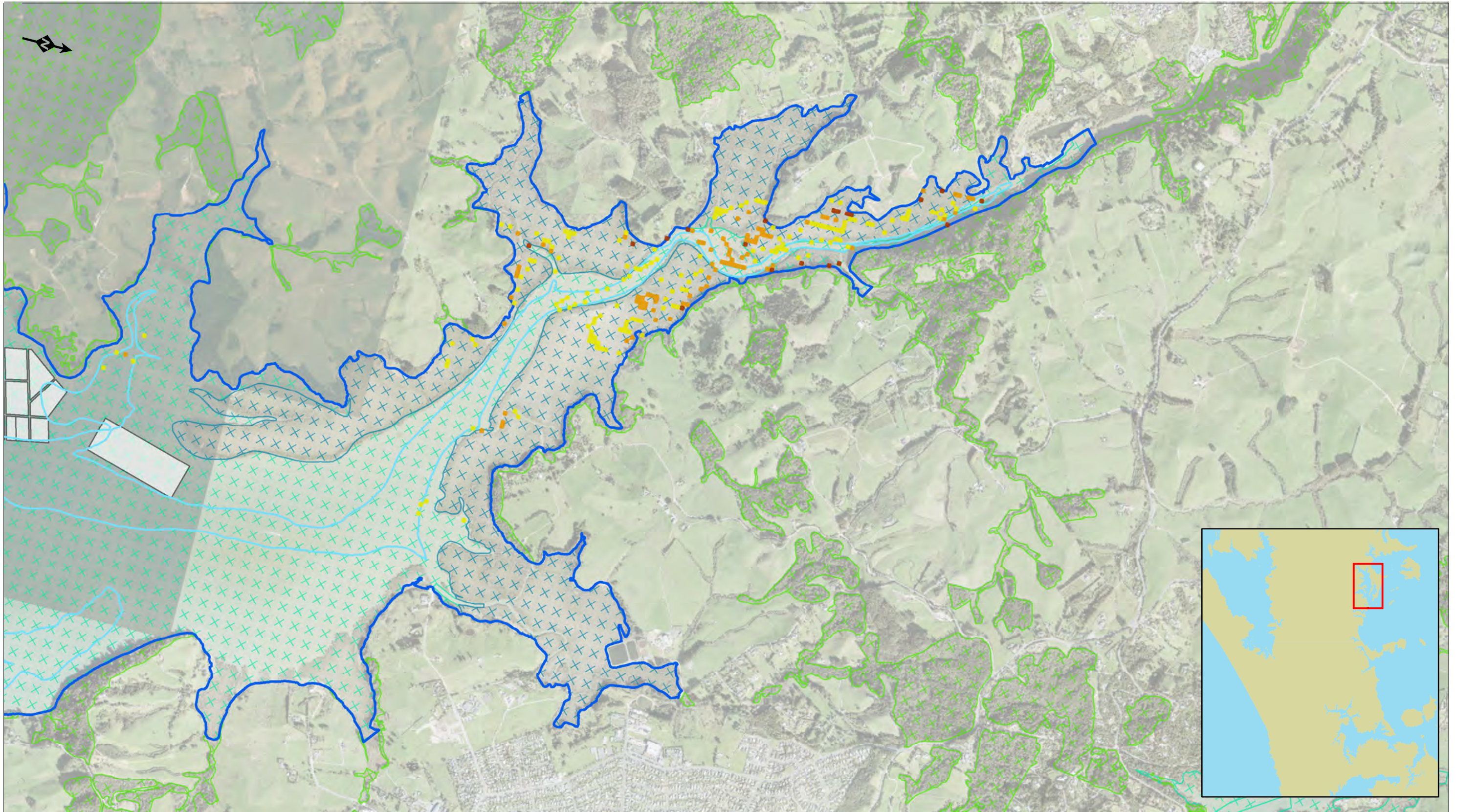


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Design Check				Design Check	JB*
Approved	BN*		Date JULY 2019		
Scale	NTS		This Drawing must not be used for Construction unless signed as Approved		Original Size <b>A3</b>

Project	<b>WARKWORTH TO WELLSFORD PROJECT</b>				
Title	<b>MAHURANGI SEDIMENT DEPOSITION SCENARIO: 10 year Rainfall Event of 3 day Duration Calm Winds and Short Term Construction Scenario</b>				
Contract:	PA4156	Drawing No:	ME-018	Sheet:	5 OF 8
Rev:	0				





**LEGEND**

- Area of Additional Deposition above 10mm
- Area of Additional Deposition above 5mm
- Area of Additional Deposition above 3mm
- Aquaculture Farms
- Low Astronomical Tide
- Mean High Water Springs
- Significant Ecological Areas**
- Terrestrial [rp/dp]
- Marine 1 [rcp]
- Marine 2 [rcp]

**NOTES**  
Assume peak earthworks season

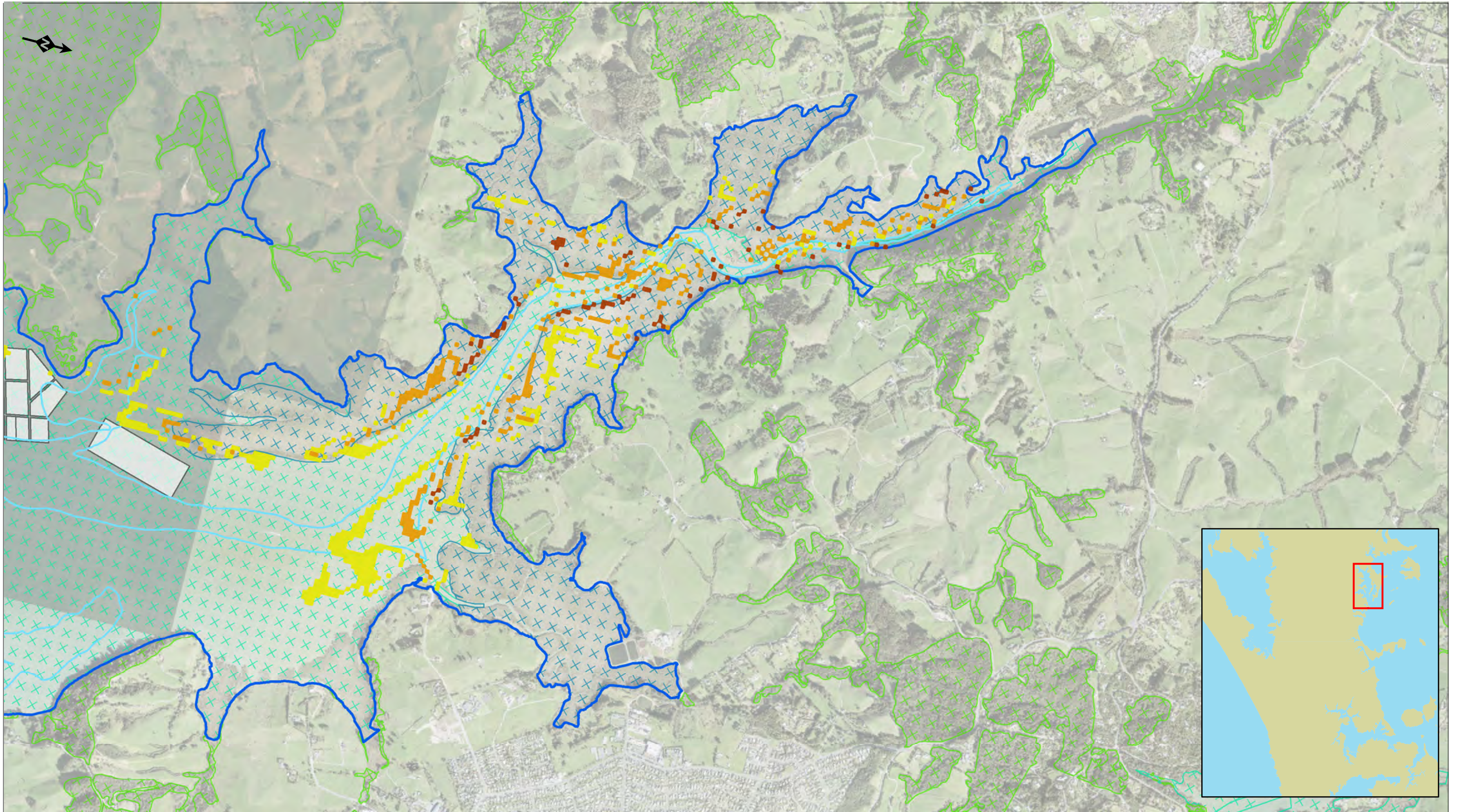
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No	Revision	Drawn	Checked	Approved	Date



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Drawn	NR	Drafting Check	JB*	Designed	SDL*
Design Check				Design Check	JB*
Approved	BN*		Date	JULY 2019	
Scale	NTS		This Drawing must not be used for Construction unless signed as Approved	Original Size	A3

Project	<b>WARKWORTH TO WELLSFORD PROJECT</b>				
Title	<b>MAHURANGI SEDIMENT DEPOSITION SCENARIO: 10 year Rainfall Event of 3 day Duration ENE Winds and Short Term Construction Scenario</b>				
Contract:	PA4156	Drawing No:	ME-019	Sheet:	6 OF 8
Rev:	0				



**NOTES**  
Assume peak earthworks season

**LEGEND**

- Area of Additional Deposition above 10mm
- Area of Additional Deposition above 5mm
- Area of Additional Deposition above 3mm
- Aquaculture Farms
- Low Astronomical Tide
- Mean High Water Springs
- Significant Ecological Areas**
- Terrestrial [rp/dp]
- Marine 1 [rcp]
- Marine 2 [rcp]

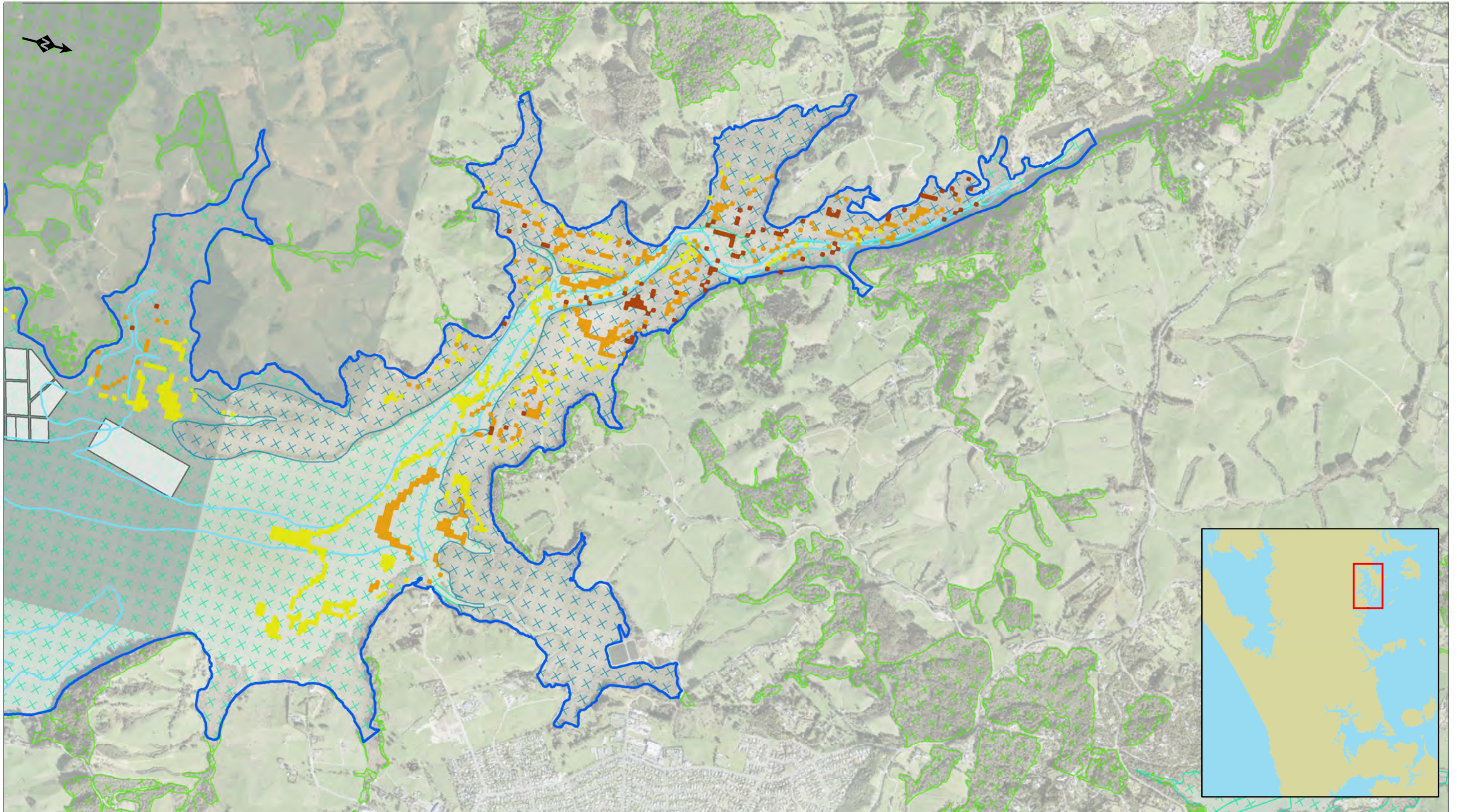
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FOR RMA APPROVALS					
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Design Check				Design Check	JB*
Approved	BN*		Date JULY 2019		
Scale	NTS		This Drawing must not be used for Construction unless signed as Approved		Original Size <b>A3</b>

Project	<b>WARKWORTH TO WELLSFORD PROJECT</b>				
Title	<b>MAHURANGI SEDIMENT DEPOSITION SCENARIO: 50 year Rainfall Event of 3 day Duration Calm Winds and Short Term Construction Scenario</b>				
Contract:	PA4156	Drawing No:	ME-020	Sheet:	7 OF 8
Rev:	0				



**NOTES**  
Assume peak earthworks season

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- Area of Additional Deposition above 10mm
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- Terrestrial [rp/dp]
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- Marine 2 [rcp]

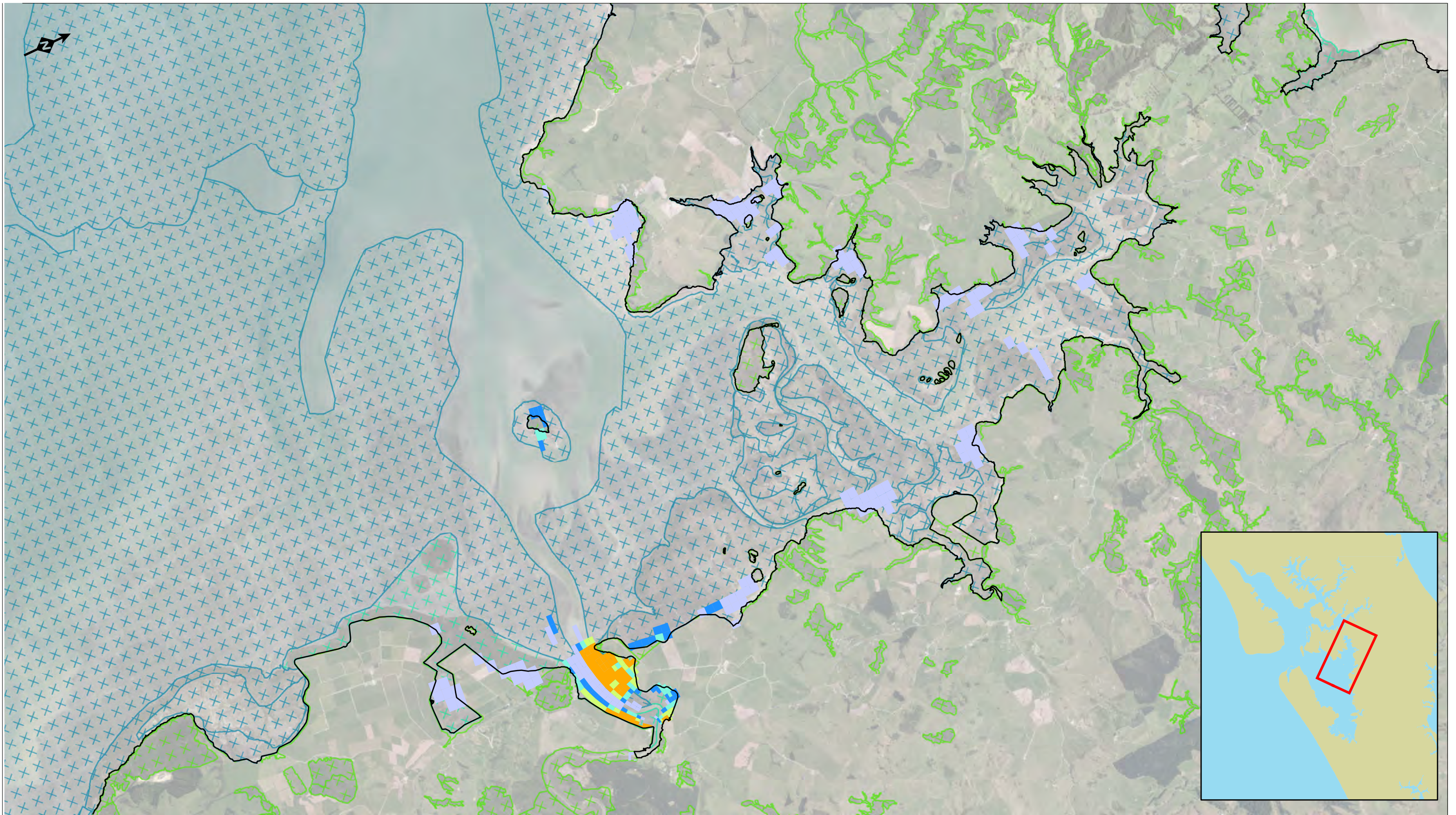
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No	Revision	Drawn	Checked	Approved	Date



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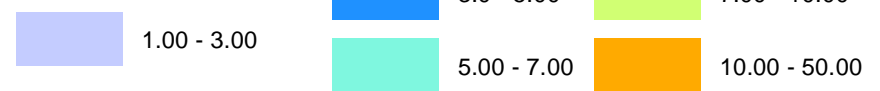
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Drawn	NR	Drafting Check	JB*
Designed	SDL*	Design Check	JB*
Approved		Date	
BN*		JULY 2019	
Scale	NTS	This Drawing must not be used for Construction unless signed as Approved	Original Size <b>A3</b>

Project	<b>WARKWORTH TO WELLSFORD PROJECT</b>		
Title	<b>MAHURANGI SEDIMENT DEPOSITION SCENARIO: 50 year Rainfall Event of 3 day Duration ENE Winds and Short Term Construction Scenario</b>		
Contract:	PA4156	Drawing No:	ME-021
Sheet:	8 OF 8	Rev:	0

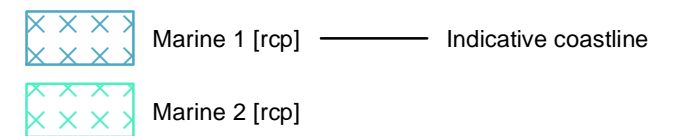


**LEGEND**

**Baseline deposition (mm)**



**Significant Ecological Areas**



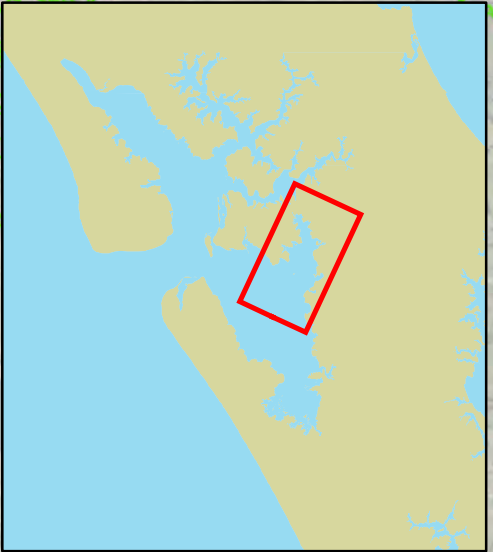
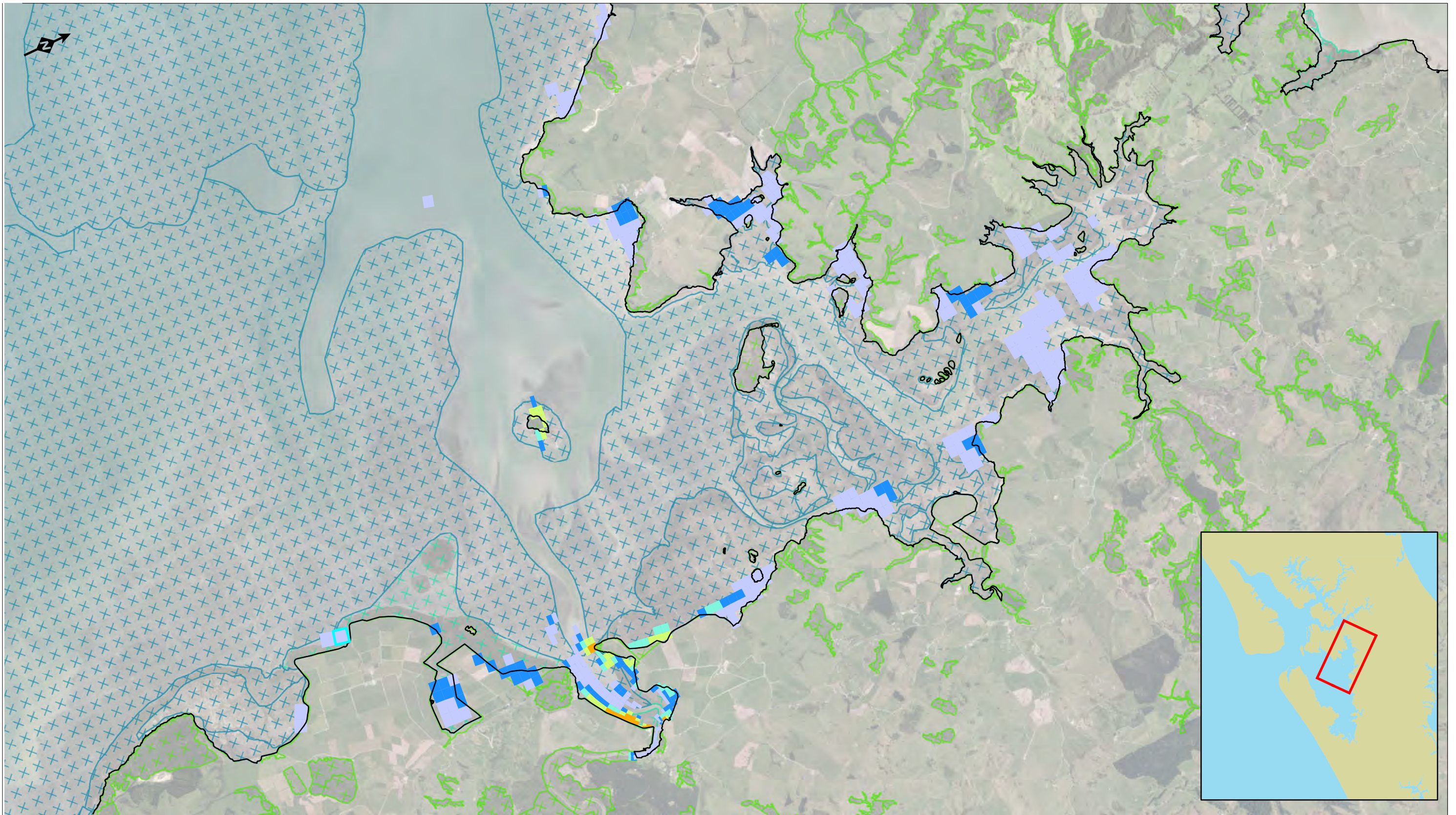
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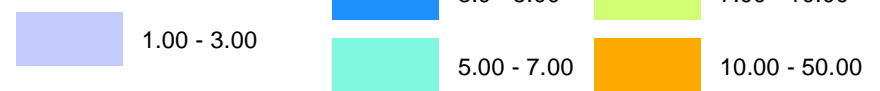
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Drawn NR	Drafting Check JB*	Designed MA*	Design Check DR*
Approved BN*		Date JULY 2019	
Scale NTS	This Drawing must not be used for Construction unless signed as Approved		Original Size A3

Project	<b>WARKWORTH TO WELLSFORD PROJECT</b>		
Title	<b>KAIPARA HARBOUR SEDIMENT DEPOSITION SCENARIO: 7 year simulation for the baseline 10 year ARI, SW wind event</b>		
Contract:	PA4156	Drawing No:	ME-022
Sheet:	1 OF 6	Rev:	0

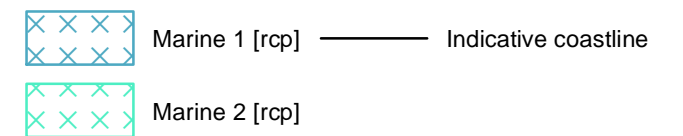


**LEGEND**

**Baseline deposition (mm)**



**Significant Ecological Areas**



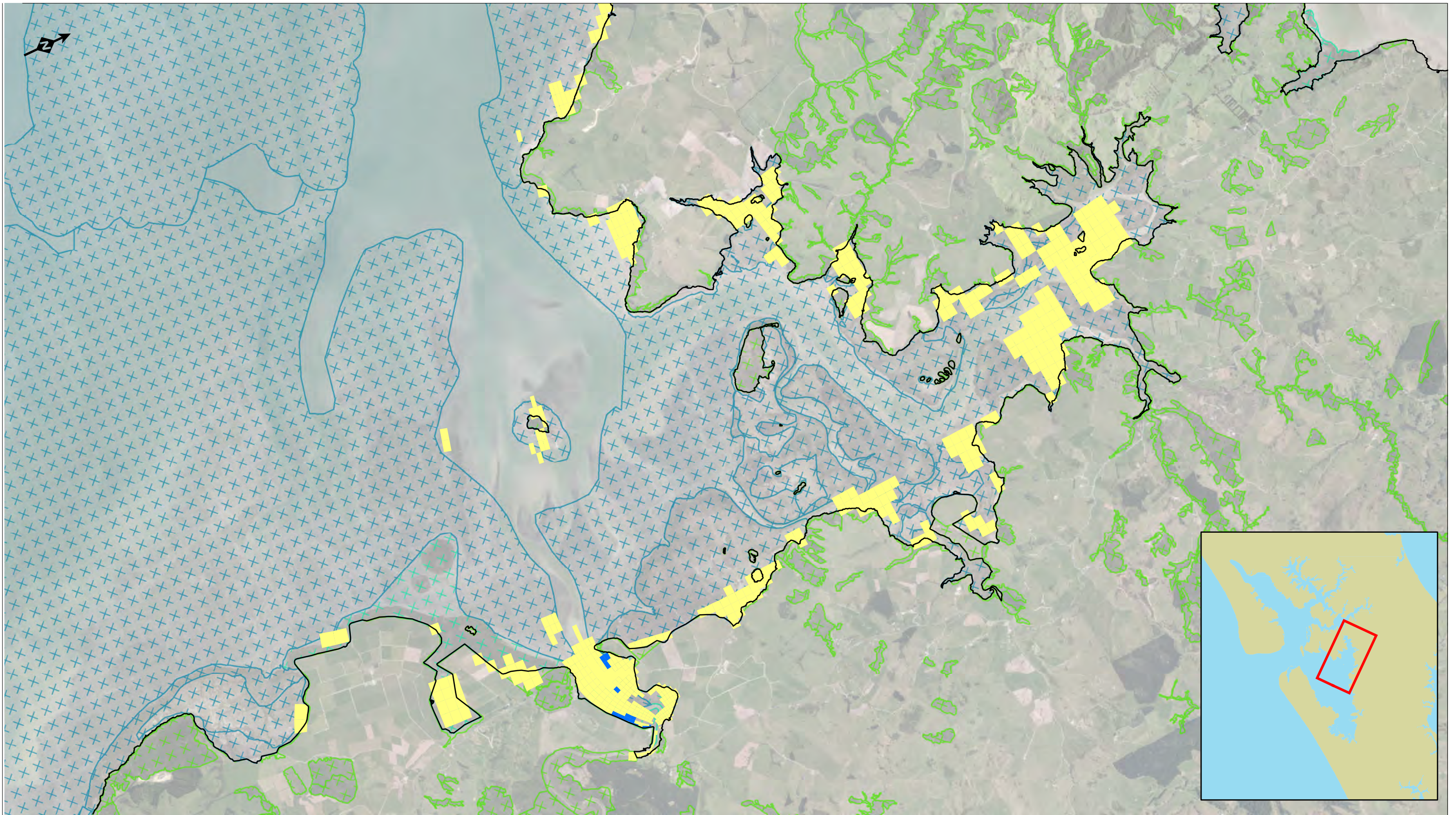
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Approved BN*		Date JULY 2019	
Scale NTS	This Drawing must not be used for Construction unless signed as Approved		Original Size A3

Project	<b>WARKWORTH TO WELLSFORD PROJECT</b>		
Title	<b>KAIPARA HARBOUR SEDIMENT DEPOSITION SCENARIO: 7 year simulation for the baseline 50 year ARI, SW wind event</b>		
Contract:	PA4156	Drawing No:	ME-023
Sheet:	2 OF 6	Rev:	0



**LEGEND**

**Additional deposition (mm)**

0.02 - 1.00

1.00 - 3.00

3.00 - 5.00

**Significant Ecological Areas**

Terrestrial [rp/dp]

Marine 1 [rcp]

Marine 2 [rcp]

Indicative coastline

**NOTES**

Assume peak earthworks season

0	ISSUED FOR RMA APPROVALS	NR	JB*	BN*	07/19
No	Revision	Drawn	Checked	Approved	Date



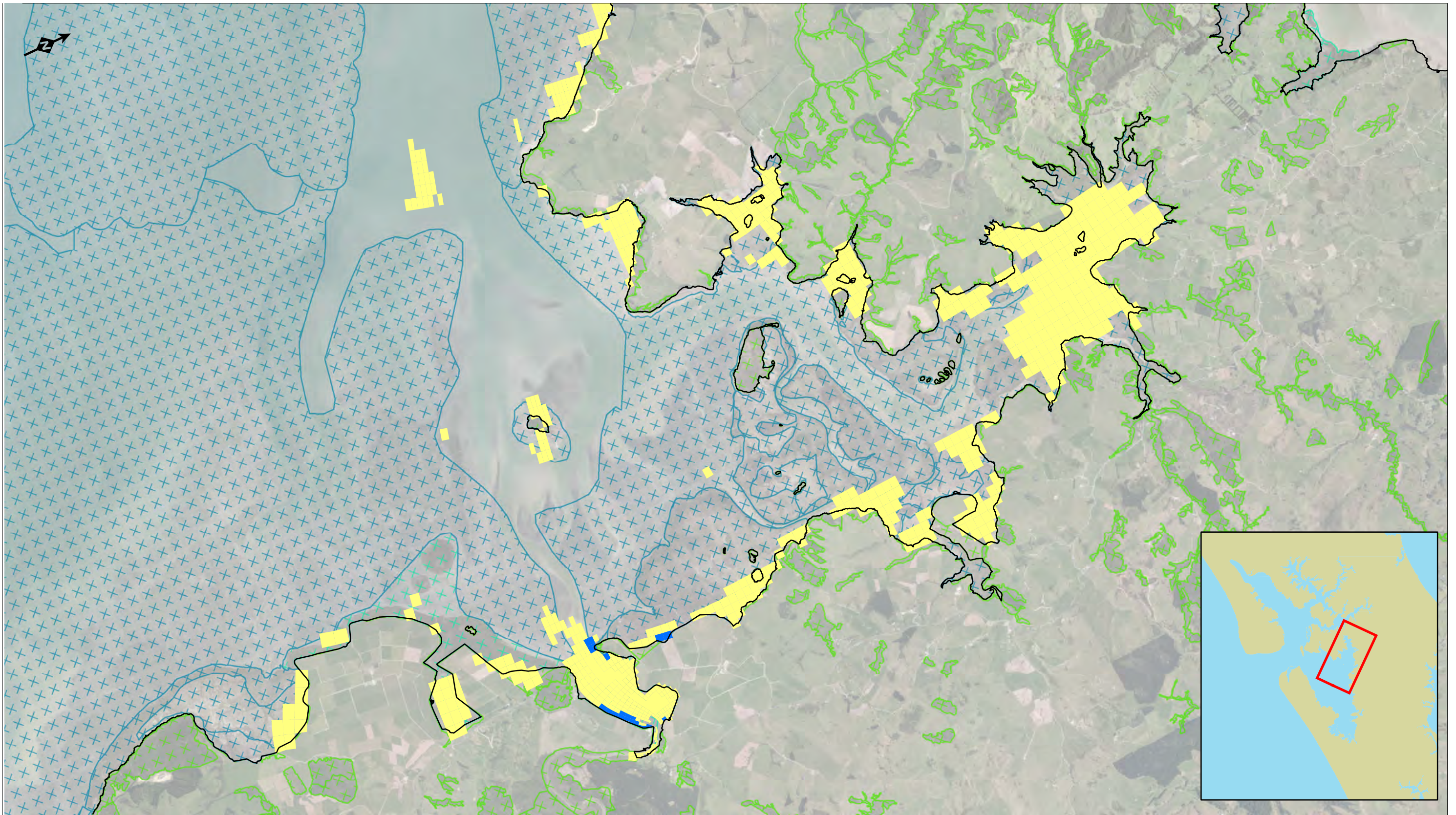
**DO NOT SCALE**

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**FOR RMA APPROVALS**

Drawn NR	Drafting Check JB*	Designed MA*	Design Check DR*
Approved BN*		Date JULY 2019	
Scale NTS	This Drawing must not be used for Construction unless signed as Approved		Original Size A3

Project	<b>WARKWORTH TO WELLSFORD PROJECT</b>		
Title	<b>KAIPARA HARBOUR SEDIMENT DEPOSITION SCENARIO: 7 year simulation for the additional deposition from project construction for the 10 year ARI, SW wind event</b>		
Contract:	PA4156	Drawing No:	ME-024
Sheet:	3 OF 6	Rev:	0



**NOTES**  
Assume peak earthworks season

**LEGEND**

**Additional deposition (mm)**

0.02 - 1.00

1.00 - 3.00

3.00 - 5.00

**Significant Ecological Areas**

Terrestrial [rp/dp]

Marine 1 [rcp]

Marine 2 [rcp]

Indicative coastline

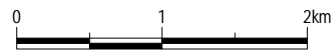
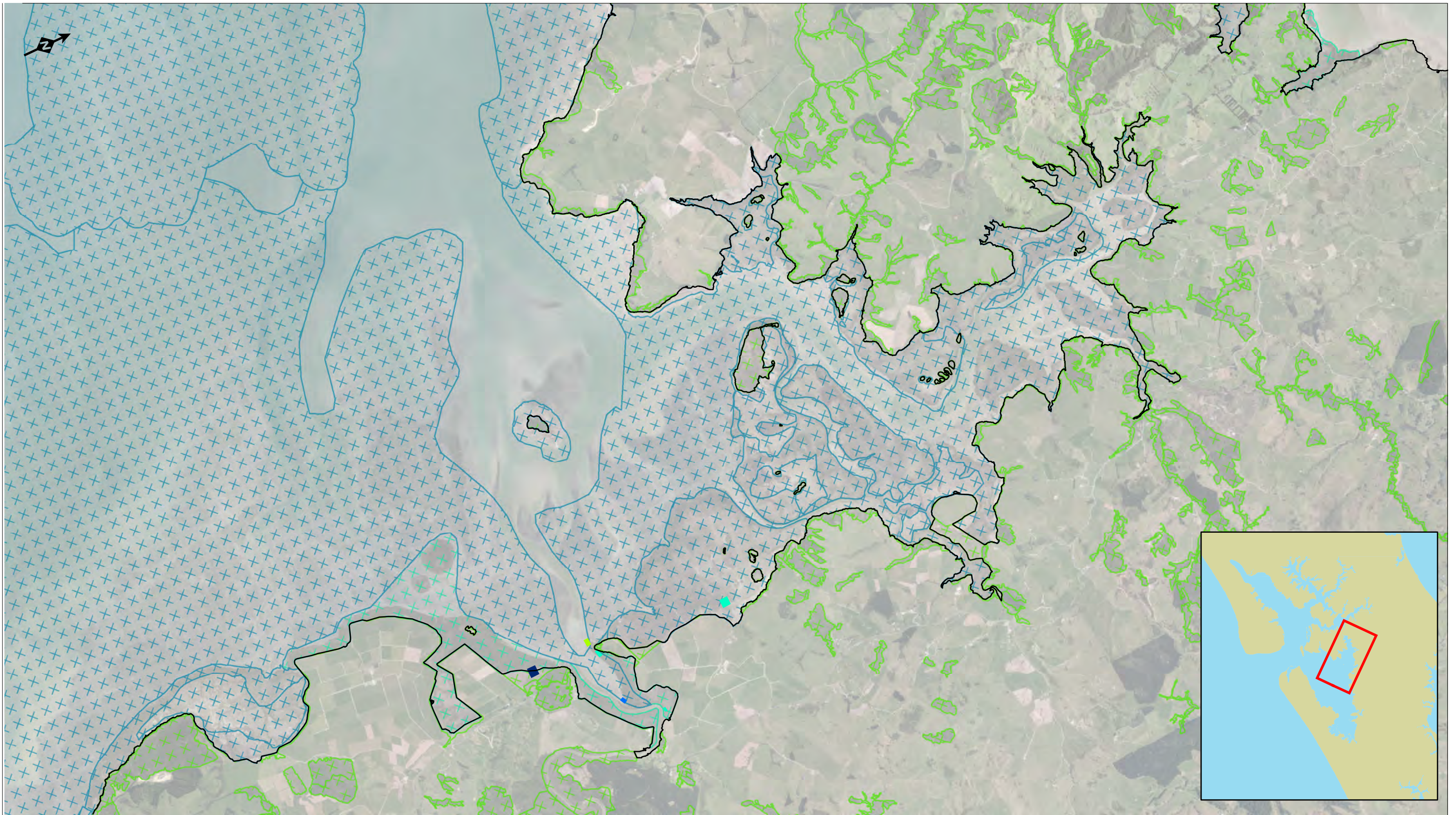
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No	Revision	Drawn	Checked	Approved	Date



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Drawn NR	Drafting Check JB*	Designed MA*	Design Check DR*
Approved BN*		Date JULY 2019	
Scale NTS	This Drawing must not be used for Construction unless signed as Approved		Original Size A3

Project	<b>WARKWORTH TO WELLSFORD PROJECT</b>		
Title	<b>Kaipara Harbour Sediment Deposition Scenario: 7 year simulation for the additional deposition from project construction for the 50 year ARI, SW wind event</b>		
Contract:	PA4156	Drawing No:	ME-025
Sheet:	4 OF 6	Rev:	0



**LEGEND**

- Additional deposition (mm)**
- < 0.18
  - 0.19 - 0.22
  - 0.23 - 0.32
  - 0.33 - 0.42
  - 0.43 - 0.52
  - 0.53 - 0.62
- Significant Ecological Areas**
- Terrestrial [rp/dp]
  - Marine 1 [rcp]
  - Marine 2 [rcp]
  - Indicative coastline

**NOTES**  
Assume peak earthworks season

0	ISSUED FOR RMA APPROVALS	NR	JB*	BN*	07/19
No	Revision	Drawn	Checked	Approved	Date

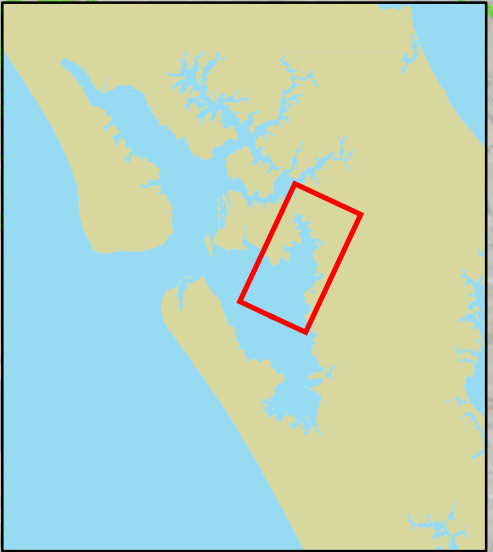
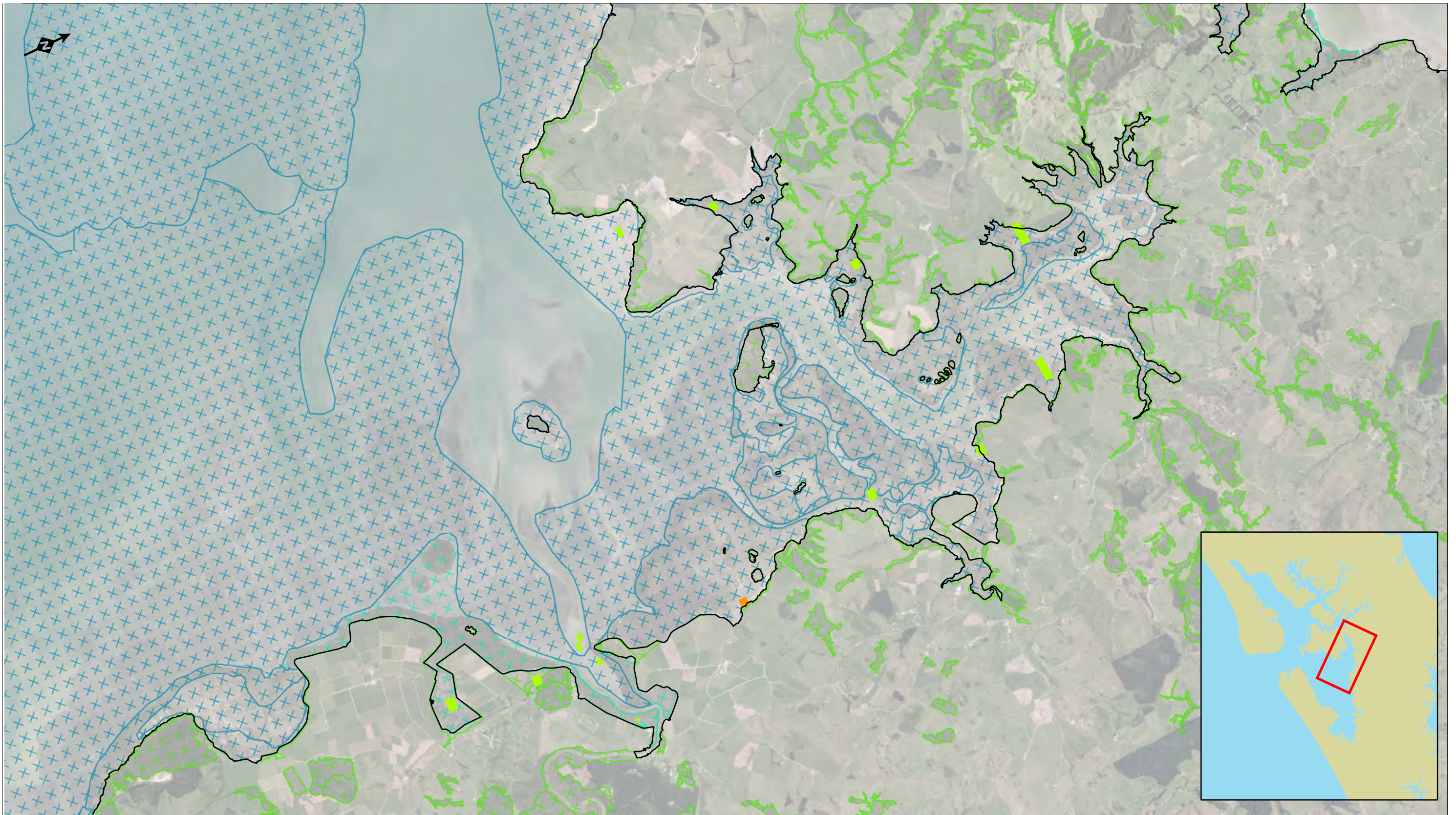


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Approved BN*		Date JULY 2019	
Scale NTS		This Drawing must not be used for Construction unless signed as Approved	
		Original Size	A3

Project	WARKWORTH TO WELLSFORD PROJECT
Title	KAIPARA HARBOUR SEDIMENT DEPOSITION SCENARIO: Additional deposition for model cells where total deposition from project construction exceeds 3mm threshold for baseline at 10 year ARI, SW wind event
Contract:	PA4156
Drawing No:	ME-026
Sheet:	5 OF 6
Rev:	0





**LEGEND**

**Additional deposition (mm)**

< 0.18

0.19 - 0.22

0.23 - 0.32

0.33 - 0.42

0.43 - 0.52

0.53 - 0.62

**Significant Ecological Areas**

Terrestrial [rp/dp]

Marine 1 [rcp]

Marine 2 [rcp]

Indicative coastline

**NOTES**  
Assume peak earthworks season

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No	Revision	Drawn	Checked	Approved	Date



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Approved BN*		Date JULY 2019	
Scale NTS	This Drawing must not be used for Construction unless signed as Approved		Original Size A3

Project	<b>WARKWORTH TO WELLSFORD PROJECT</b>		
Title	<b>KAI PARA HARBOUR SEDIMENT DEPOSITION SCENARIO: Additional deposition for model cells where total deposition from project construction exceeds 3mm threshold for baseline at 50 year ARI, SW wind event</b>		
Contract:	PA4156	Drawing No:	ME-027
Sheet:	6 OF 6	Rev:	0