

Wai Care

Huatoki Stream · New Plymouth

WIMP Invertebrate · Water Quality · Riparian Assessment

Huatoki Catchment

Pouakai Range → New Plymouth City → Ngāmotu Beach
Hadley Rd · Domain Entrance · Metro Plaza (Daylighting Reach)

► SELECT YOUR SURVEY SITE (TICK ONE)

- Metro Plaza Daylighting Reach** -39.0558, 174.0756
- Huatoki Domain Entrance** -39.0589, 174.0721
- Hadley Road** -39.0721, 174.0612
- Other:** _____

Stream: **Huatoki**

Group: _____

Assessor: _____

Date: _____ Time: _____

Form ID: _____

Site Information

Site: _____

Stream: **Huatoki**

Lat: _____

Lon: _____ Location: _____

GPS Reference: Metro Plaza -39.0558, 174.0756 | Domain Entrance -39.0589, 174.0721 | Hadley Rd -39.0721, 174.0612

Safety Check

 PPE Worn Wade Assessed Weather Checked Buddy System First Aid Kit Comms Device Emergency Plan CCD: Check CCD: Clean CCD: Dry Prev. waterway: _____ Days since: _____ **Longfin tuna (tuna) present — do not disturb or handle**

Weather & Conditions

Air Temp: _____

Wind: _____

Weather Now: _____

Humidity: _____

Rain 24h: _____

Rain 7d: _____

Rain 48h: _____

Conditions: _____

⚠ Do not survey within 48h of heavy rain — the Huatoke rises rapidly after rainfall events.

Habitat Identification

Stream Width: _____ m

Water Depth: _____ m

Flow: Low Med HighSubstrate: Gravel Sand SiltShade: Open Part FullAlgae: None Some HeavyHabitat Type: Riffle Run Pool Backwater

Water Quality Measurements

Parameter	Your Reading	Huatoki Baseline	Status
Temperature <i>Baseline: 14–17°C</i>	_____ °C	14–17°C	<input type="checkbox"/> OK <input type="checkbox"/> !
pH <i>Baseline: 7.0–7.8</i>	_____	7.0–7.8	<input type="checkbox"/> OK <input type="checkbox"/> !
Dissolved Oxygen <i>Baseline: >80%</i>	_____ %	>80%	<input type="checkbox"/> OK <input type="checkbox"/> !
Turbidity / Clarity <i>Baseline: >1.0m</i>	_____ m	>1.0m	<input type="checkbox"/> OK <input type="checkbox"/> !
Conductivity <i>Baseline: 80–150 µS/cm</i>	_____ µS/cm	80–150 µS/cm	<input type="checkbox"/> OK <input type="checkbox"/> !
Nitrates	_____ mg/L	<1.0 mg/L	<input type="checkbox"/> OK <input type="checkbox"/> !
Phosphates	_____ mg/L	<0.05 mg/L	<input type="checkbox"/> OK <input type="checkbox"/> !
E. coli	_____ cfu/100mL	<260 cfu/100mL	<input type="checkbox"/> OK <input type="checkbox"/> !

Tuna observation: Longfin tuna are present in the Huatoeki. Record any sightings below but do not disturb or handle.

Tuna seen: Yes No Estimated size: _____ Location: _____

Observations

Abundance: F = Few (1–4) · C = Common (5–19) · A = Abundant (20+) | **Score:** F=1 · C=2 · A=3

Taxon	Score	Likely at Huatoke	Abundance (tick)
Stonefly (Plecoptera)	10	Occasional	<input type="checkbox"/> F <input type="checkbox"/> C <input type="checkbox"/> A
Mayfly (Ephemeroptera)	10	Common	<input type="checkbox"/> F <input type="checkbox"/> C <input type="checkbox"/> A
Caddisfly (Trichoptera)	8	Common	<input type="checkbox"/> F <input type="checkbox"/> C <input type="checkbox"/> A
Dobsonfly (Megaloptera)	8	Occasional	<input type="checkbox"/> F <input type="checkbox"/> C <input type="checkbox"/> A
Riffle beetle (Elmidae)	8	Occasional	<input type="checkbox"/> F <input type="checkbox"/> C <input type="checkbox"/> A
Freshwater shrimp (Paracalliope)	8	Common	<input type="checkbox"/> F <input type="checkbox"/> C <input type="checkbox"/> A
Kōura (freshwater crayfish)	8	Rare — record if seen	<input type="checkbox"/> F <input type="checkbox"/> C <input type="checkbox"/> A

WIMP Tolerant Taxa

Taxon	Score	Likely at Huatoke	Abundance (tick)
Midge (Chironomidae)	3	Very common	<input type="checkbox"/> F <input type="checkbox"/> C <input type="checkbox"/> A
Worm (Oligochaeta)	2	Common	<input type="checkbox"/> F <input type="checkbox"/> C <input type="checkbox"/> A
Snail (Gastropoda)	3	Common	<input type="checkbox"/> F <input type="checkbox"/> C <input type="checkbox"/> A
Water boatman (Corixidae)	3	Occasional	<input type="checkbox"/> F <input type="checkbox"/> C <input type="checkbox"/> A
Dragonfly (Odonata)	4	Occasional	<input type="checkbox"/> F <input type="checkbox"/> C <input type="checkbox"/> A

SENSITIVE TAXA COUNT

TOLERANT TAXA COUNT

TOTAL WIMP SCORE

Score each aspect for both the left and right bank. Maximum score = 21. Huatoeki priority plants to remove: crack willow, grey willow, wandering Jew.

1. Riparian Width (score /5)

- >10m wide (5) 5–10m (4) 2–5m (3) <2m (2) None (1)

Left bank: _____ Right bank: _____

2. Canopy Cover (score /5)

- >75% native (5) 50–75% (4) 25–50% (3) <25% (2) None (1)

Left bank: _____ Right bank: _____

3. Understorey (score /5)

- Dense native (5) Moderate native (4) Sparse (3) Weeds dominant (2) Bare (1)

Left bank: _____ Right bank: _____

4. Bank Stability (score /3)

- Stable, well-rooted (3) Some erosion (2) Actively eroding (1)

Left bank: _____ Right bank: _____

5. Invasive Plants Present (score /3)

- None (3) Minor (<10%) (2) Significant (>10%) (1)

Species found: _____

Restoration planting since last visit: Yes No Species: _____

LEFT BANK TOTAL

____ /21

RIGHT BANK TOTAL

____ /21

OVERALL RIPARIAN

____ /21

Excellent ≥18 · Good 13–17 ·
Fair 8–12 · Poor ≤7

Estimated MCI Bands

A — Excellent >119

B — Good 100-119

C — Fair 80-99

D — Poor <80

Huatoki Historical MCI

Site	Median MCI	Band
Hadley Road	105.5	B — Good
Domain Entrance	107.5	B — Good

Metro Plaza *No baseline yet — you are first!*

Your Survey Results

WIMP SCORE

Band:

RIPARIAN SCORE

 / **21**

Band:

OVERALL ASSESSMENT

Comparison to Huatoki Baseline

Metric	Your Result	Huatoki Baseline	Trend
WIMP / MCI Band	<u> </u>	B (Good) — 105-108	<input type="checkbox"/> ↑ <input type="checkbox"/> = <input type="checkbox"/> ↓
Riparian Score	<u> </u>	Variable (urban)	<input type="checkbox"/> ↑ <input type="checkbox"/> = <input type="checkbox"/> ↓
Water Clarity	<u> </u>	>1.0m	<input type="checkbox"/> ↑ <input type="checkbox"/> = <input type="checkbox"/> ↓

11-Step Protocol

- 1 Safety Briefing**
Complete safety check on Page 2. Confirm CCD status.
- 2 Site Setup**
Record site name, GPS, weather, and conditions.
- 3 Habitat Assessment**
Identify stream type, flow, substrate, and shade.
- 4 Water Quality**
Take all measurements. Compare to Huatoke baseline values.
- 5 WIMP Sampling**
3 × 30-second kick-net samples. Sort into trays.
- 6 Taxa Identification**
ID and count taxa. Record F/C/A abundance.
- 7 Return Specimens**
Return all invertebrates to the stream.
- 8 Riparian Scoring**
Score both banks using Page 5 criteria.
- 9 Photo Log**
Take all 7 standard photos (Page 8).
- 10 CCD Wrap-Up**
Check, Clean, Dry all equipment before leaving.
- 11 Data Entry**
Enter data at mauricompass.sbs using your Form ID.

Enter Data Online

QR Codemauricompass.sbsScan to openField Form

Visit mauricompass.sbs and open the Field Form. Enter your Form ID from the cover page to link your paper record to the digital database.

Contact & Support

TRC Freshwater	0800 736 463
MPI Biosecurity	0800 80 99 66
Huatoke Conservation Group	huatoke.org.nz
NPDC Parks	06 759 6060

Didymo alert: If you see brown, slimy mats on rocks — do not move water, equipment, or clothing without full CCD decontamination. Report to MPI immediately.

Standard Photo Points

1. Upstream View

Caption: _____

Taken

2. Downstream View

Caption: _____

Taken

3. Left Bank

Caption: _____

Taken

4. Right Bank

Caption: _____

Taken

5. Invertebrate Tray

Caption: _____

Taken

6. Daylighting Zone (Metro Plaza)

Caption: _____

Taken N/A

Site Sketch & Notes

Sketch the stream reach, note key features, bank conditions, and any unusual observations