

WATER-LEVEL STATION INSPECTION

Form SI 100428

Station Stm River/Lake, at SH97 Station No. 74339 Date 25/11/14
 Client: ELEM Standards required N/A / N/A

Other client requirements

Last inspection: Date 3/5/12 Has all required work from this been done? Yes/No (If no, list)

LEVELLING CHECK:

Date 25/11/14 Level book/sheet No. 44.0 Page 0 Done by EP
 Close 2 mm Starting BM S Datum Assumed 45m

BM No	R.L. off Form SH	Measured R.L.	Difference (mm)	Comment (if diff > 3mm)
<u>5</u>	<u>49.663</u>	<u>49.673</u>	<u>10mm</u>	<u>New RL - movement.</u>
<u>6</u>	<u>49.710</u>	<u>49.709</u>	<u>1mm</u>	<u>✓</u>
<u>7</u>	<u>49.719</u>	<u>49.719</u>	<u>0mm</u>	<u>✓</u>

Staff Gauge / EPB Zero; checked against BM No(s) 5/6/7 Close = 0 mm

Range	Location	Meas. RL Zero	Difference	Comment (if diff. > 3mm)
<u>Lower</u>	<u>Opp. Rec.</u>	<u>44.995</u>	<u>5mm</u>	<u>x Label in tower - found</u>
<u>Upper</u>	<u>2m up</u>	<u>44.975</u>	<u>25mm</u>	<u>Leaving to adjust.</u>
				<u>Leaving to adjust?</u>
	EPB	<u>45.000</u>	<u>0mm</u>	<u>✓</u>

	Yes/No	Comment (if No)	Work reqd? y/n
BM's: Are BM's stable	✓		
At least 3 on-site	✓		
Suitably positioned for levelling	✓		
Adequately marked or finder diagrams	✓		
SG's: Intact, accurate & level-in OK	✓	<u>Upper 25mm / Lower 5mm</u>	
Stable since last insp	✓	<u>5 marks 10mm</u>	
Cover full range	✓	<u>(Adjusted in SH)</u>	
Positioned OK for surge, slope etc	✓	<u>new label</u>	
INTERNAL Gauge operates OK	✓	<u>in tower</u>	✓
Index mark unambiguous & stable	✓		
Mounting rigid	✓		
EPB earthing OK	✓		
RECORDER RL Zero <u>45.000</u> m	✓		
Agrees with primary reference	✓	<u>0mm / 2mm close</u>	
Primary reference is <u>BM 6+7</u>	✓		
Station History up to date	✓		
includes all relevant details	✓		

RECORDER DETAILS

Logger make and type HL 2001 Serial No 129 Reading interval 5 min

Sensor make and type " Serial No " Nominal range 0-10 m

Possible range as installed 0-8 m Comments:

Backup recorder: make & type HLM Ser No. 034 RL Zero 45 m

Sensor type " Is backup rec system fully independent? Yes

Comments (include changes) Replace backup sheet

	Yes/No	Comment (if No)	Work reqd? y/n
INSTALLATION adequate	Y		
Tower structurally sound	✓		
Tower ref. pts. level in OK		✓	
Professional appearance	✓		
Sensor mounted securely, accessible	✓		
Sensor tube/cable protected	✓		
Intakes/sensors intact & clear of silt	✓		
Flushing frequency adequate	✓		
Facility to check silting (EPB or?)		✓	
SAFE access; platforms, ladders, tracks	Y		
timber surfaces slip resistant	✓		
handrails above 1 m drops	✓		
rails/barriers secure	✓		
bolts & nuts tight, nailing adequate	✓		
timber sound, no rot apparent	✓		
metal parts unaffected by corrosion	✓		
public notices adequate	✓		
padlocks, etc. secure	✓		
safety fittings for well access	✓		
Gauging facility safe & usable	Y		
platforms have toeboards	✓		
CABLEWAY cert. expires.....	Y		
visual inspection OK/done each use			
used according to safety instructions			
RECORD accurate			
Logbook legible & filled in OK	✓		
Servicing procedures correct	✓		
Resolution/pulley size appropriate	✓		
POWER SUPPLY adequate			
Voltage test13.2..... volts - OK?	✓		
Wiring tidy & good condition	✓		
Battery identification OK	✓		
FLOAT free of leaks; away from wall		✓	
float tape in good condition	✓		
float & c/wt travel OK thru full range	✓		
silt checked; depth m	✓		
CONTROL - sensitivity OK (comment)	✓		
stability OK (comment)	✓		
control structure sound & no leaks	✓		
GAUGING section satisfactory	✓		
clear of weed and obstructions	✓		
distance marking clear, adequate	✓		
RECORDS:			
Does data meet client reqmnts?	✓		
Comment on - missing record	✓		
- stability of ratings	✓		
- any other factors	✓		

Certified to be a comprehensive check of station operation details, with all known relevant factors noted, and that data are being collected according to the required technical standards, client requirements and NIWA safety guidelines (4.2, 4.3, 4.11, 4.16, etc.) unless otherwise noted above.

..... *EB* Inspecting Officer *25/11/14* (date)

Station History card (Form SH) checked/updated by *EB* on *25/11/14*
 Required work added to objectives *off* (Manager)