

bottom, with drains running through it, and overflows when the depth of water at the north end attains 10 feet, the south end being about 3 feet deeper. The area draining into the reservoirs is about 4 square miles.

South Settling Reservoir.—The south pond is the larger of the two, being nearly half a mile in length, by nearly one-third of a mile in breadth, covering an area of about 73 acres, and containing about 43 million cubic feet of water. The deepest sounding in 26 feet was taken near the middle but towards the west side, where there is a considerable area, equal to about 21 per cent. of the total area, covered by more than 20 feet of water. The mean depth is estimated at $13\frac{1}{2}$ feet. The temperature of the water was nearly uniform throughout, the reading at the surface being $47^{\circ}1$ Fahr., at 10 feet $47^{\circ}0$, and at 25 feet $46^{\circ}8$.

North Settling Reservoir.—The north pond is nearly half a mile in length, by a quarter of a mile in maximum breadth, covering an area of about 47 acres, and containing about 26 million cubic feet of water. The deepest water occupies the north-eastern part of the pond, the maximum depth of 22 feet being recorded close to the north-east shore, while an isolated sounding in 20 feet was taken close to the western shore, near the channel leading to the south pond. The mean depth is estimated at $12\frac{1}{2}$ feet. The surface temperature was $46^{\circ}8$ Fahr.

Crombie Den Reservoir (see Plate L.) lies about 2 miles to the north-west of Monikie reservoirs, and is most irregular in outline. The wide central portion is occupied by a large island, around which the water of the reservoir forms a narrow channel, sending out a narrow shallow arm to the west, and a wider deep arm to the south-east. The length from north-west to south-east is nearly a mile, while the maximum breadth is only about one-ninth of a mile, the superficial area being about 41 acres, and the drainage area about $2\frac{1}{2}$ square miles. The maximum depth of 53 feet was observed off the sluice at the south-east extremity of the reservoir, whence the water shoals gradually towards the inflow at the opposite extremity. The mean depth is estimated at 18 feet, and the volume of water at 31 million cubic feet. The elevation could not be determined from bench-mark, but is apparently about 500 feet above the sea. The reading on the sluice on October 14, 1904, was 18.9. The water was practically uniform in temperature throughout, the reading at the surface being $47^{\circ}5$ Fahr., at 5 feet $47^{\circ}2$, and at 50 feet $46^{\circ}9$.