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## Environmental Monitoring using Satellite Image Data and Numerical Analysis

Hiroyuki Ohno<sup>1\*</sup>, Tomoaki HACHIMURA<sup>2</sup>, Takayuki NISHI<sup>2</sup>, Tetsuya MIYAHARA<sup>2</sup>

<sup>1</sup>Kankyo Chishitsu Co.Ltd, <sup>2</sup>Japan Environmental Sanitation Center

The plant situations are affected by water conditions such as rainfall, surface water and recharge water. And, the plant conditions could be grasped by using satellite image data. We examined the relationship between the soil moisture content (saturation) and the vegetation index (NDVI). The results are shown that soil moisture content (saturation) is large in the case of large vegetation index (NDVI).

Keywords: Vegetation index, Water moisture content, Environmental monitoring, Numerical analysis, Remote sensing