

## Spatial Collection Standards

- Required information:
  - Latitude
  - Longitude
  - Elevation<sup>1</sup>
  - Horizontal Datum
  - Vertical Datum<sup>1</sup>
  - Collection Method
  - Accuracy
  - Accuracy Units

<sup>1</sup> *Not needed for site locations*

- Suggested Horizontal Datum: NAD1983
- Suggested Vertical Datum: NGVD 1929

### Accuracy Requirements:

<b>Feature</b>	<b>Horizontal</b>	<b>Vertical</b>	<b>Feature</b>
<b>Permanent Wells</b>	<i>6.1 cm (0.2 ft)</i>	<i>3 mm (0.01 ft)</i>	<i>Top of Well Casing</i>
<b>Site Location</b>	<i>5 meters (~16 ft)</i>	<i>none</i>	<i>Contamination Source Area</i>
<b>Soil Borings</b>	<i>5 meters (~16 ft)</i>	<i>3 cm (0.1 ft)*</i>	<i>Land Surface</i>
<b>Well Points</b>	<i>5 meters (~16 ft)</i>	<i>3 mm (0.01 ft)*</i>	<i>Top of Well Casing</i>
* where a site survey is completed.			

Expected Horizontal Accuracy:

Handheld GPS (WAAS enabled) – 5 m

GIS Grade DGPS - < 50 cm

Survey Grade DGPS - < 6 cm

Traditional Survey - < 6 cm

See also: [Recommended Practices For Monitoring Well Design, Installation, And Decommissioning](#)