



# GLOBE Nitrates Data Sheets

## Print the Nitrate Data Sheet:

- [Nitrate Data Sheet](#)

## Or select an alternative option below: :

- [Nitrate: New Site](#) (2 pages)
  - Use this the first time you visit a sampling site to record site definition data.
- [Nitrate: Weekly Measurements](#) (two pages)
  - This data sheet has space to record weekly nitrate measurements.
- [Nitrates with field guide](#) (2 pages)
  - This data sheet has the field guide incorporated.
- [Nitrates: Simplified](#)
  - Use this data sheet when working with those new to GLOBE and collecting data.

# GLOBE Nitrates Data Sheet

Name: \_\_\_\_\_ Site Name: \_\_\_\_\_

Date: \_\_\_\_\_ Time (local): \_\_\_\_\_

Water State:  Normal  Flooded  Dry  Frozen  Unreachable

*\*If anything except Normal is selected, stop here!\**

Kit Manufacturer:  LaMotte  Hach  Other: \_\_\_\_\_

Model: \_\_\_\_\_

## Nitrate Measurements

Sample	Nitrite + Nitrate (mg/L nitrate nitrogen+ nitrite nitrogen)	Nitrite only (optional, mg/L nitrite nitrogen)
Sample #1		
Sample #2		
Sample #3		
Average		

### Stop and Check:

Are all measurements within 0.1 ppm of the average (or 1.0 ppm if using the high range test)? If not, read the color measurements again and calculate a new average. (Note: do not read again if it has been more than 5 minutes).

Comments:

# GLOBE Nitrates Data Sheet: New Site (page 1)

Name: \_\_\_\_\_ Site Name: \_\_\_\_\_

Date: \_\_\_\_\_ Time (local): \_\_\_\_\_

## New Site Definition

Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

Elevation: \_\_\_\_\_ m

Name of Water Body: \_\_\_\_\_

Water Body Type:  Unknown  Saltwater  Freshwater  Brackish

Water State:  Normal  Flooded  Dry  Frozen  Unreachable

*\*If anything except Normal is selected, stop here!\**

Kit Manufacturer:  LaMotte.  Hach  Other: \_\_\_\_\_

Model: \_\_\_\_\_

## Nitrate Measurements

Sample	Nitrite + Nitrate (mg/L nitrate nitrogen+ nitrite nitrogen)	Nitrite only (optional, mg/L nitrite nitrogen)
Sample #1		
Sample #2		
Sample #3		
Average		

Comments:

### Stop and Check:

Are all measurements within 0.1 ppm of the average (or 1.0 ppm if using the high range test)? If not, read the color measurements again and calculate a new average. (Note: do not read again if it has been more than 5 minutes).

# GLOBE Nitrates Data Sheet: New Site (page 2)

## Optional Site Definition Information

Water Body Source: \_\_\_\_\_

Can you see the bottom?  Yes  No

Water Sampling location:

Outlet  Bank  Bridge  Boat  Inlet  Pier

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Channel/Bank Material:

Soil  Rock  Concrete  Vegetated Bank

Bedrock:

Granite  Limestone  Volcanics  Mixed Sediments  Unknown

Freshwater Habitats Present:

Rocky Substrate  Vegetated Bank  Mud Substrate  Sand Substrate  
 Submersed Vegetation  Logs

Saltwater Habitats Present:

Rocky Shore  Sandy Shore  Mud Flats/Estuary

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If the water body source is a **river** or **stream**:

Width of moving water: \_\_\_\_\_ meters

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If the water body source is a **pond, lake, reservoir, bay, ditch** or **estuary**:

Area of standing water: \_\_\_\_\_ km<sup>2</sup>

Average depth of standing water \_\_\_\_\_ meters

# GLOBE Nitrates Data Sheet: Weekly (page 1)

Name: \_\_\_\_\_ Site Name: \_\_\_\_\_

Kit Manufacturer:  LaMotte     Hach     Other: \_\_\_\_\_

Model: \_\_\_\_\_

## Nitrates Measurements (Sample units: mg/L nitrate nitrogen+ nitrite nitrogen)

\*Water State Options: N = Normal, Fl = Flooded, D = Dry, Fr = Frozen, U = Unreachable.

*If anything except Normal is selected, do not collect measurements.*

Date	Time (local)	Water State*	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Average (mg/L)

Comments:

**Stop and Check:** Are all measurements within 0.1 ppm of the average (or 1.0 ppm if using the high range test)? If not, read the color measurements again and calculate a new average.

# GLOBE Nitrates Data Sheet: Weekly (page 2)

## OPTIONAL: Nitrite Only Measurements

(Sample units: mg/L nitrite nitrogen)

Date	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)

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Comments:

# GLOBE Nitrates Data Sheet and Field Guide (page 1)

Name: \_\_\_\_\_ Site Name: \_\_\_\_\_

Date: \_\_\_\_\_ Time (local): \_\_\_\_\_

Water State:  Normal  Flooded  Dry  Frozen  Unreachable

*\*If anything except Normal is selected, stop here!\**

Kit Manufacturer:  LaMotte  Hach  Other: \_\_\_\_\_

Model: \_\_\_\_\_

## Nitrate Measurements

1. Put on protective gloves and goggles.
2. Follow the instructions in your kit to measure the nitrate nitrogen. You should use the Low Range Test (0 – 1 mg/L) unless previous results indicate that your site typically has greater than 1 mg/L nitrate nitrogen. If using powdered reagents, use the surgical mask when opening these products. Use clock or watch to measure the time if your kit requires you to shake your sample.
3. Match the color of the treated sample water with a color in the test kit.
4. Record the value as ppm nitrate-nitrogen for the matching color.

**Sample #1:** \_\_\_\_\_ mg/L nitrate nitrogen+ nitrite nitrogen

5. Have two other people match a color with the treated sample water for a total of three observations. Record all three nitrate-nitrogen values below.

**Sample #2:** \_\_\_\_\_ mg/L nitrate nitrogen+ nitrite nitrogen

**Sample #3:** \_\_\_\_\_ mg/L nitrate nitrogen+ nitrite nitrogen

6. Calculate the average of the three measurements.

**Average :** \_\_\_\_\_ mg/L nitrate nitrogen+ nitrite nitrogen

7. Are all measurements within 0.1 ppm of the average (or 1.0 ppm if using the high range test)? If not, read the color measurements again and calculate a new average.
8. Record nitrite values if measuring and any comments on the back of this page.

# GLOBE Nitrates Data Sheet and Field Guide (page 2)

## OPTIONAL Nitrite Measurements

<b>Sample</b>	<b>Nitrite only</b> ( <i>optional</i> , mg/L nitrite nitrogen)
Sample #1	
Sample #2	
Sample #3	
Average	

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Comments:

# GLOBE Nitrates Data Sheet: Simplified

Name: \_\_\_\_\_

Site Name: \_\_\_\_\_

Date: \_\_\_\_\_ Time (local): \_\_\_\_\_

Water State:  Normal  Flooded  Dry  Frozen  Unreachable

*\*If anything except Normal is selected, stop here!\**

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## Nitrates Measurements

Sample	Nitrite + Nitrate (mg/L nitrate nitrogen+ nitrite nitrogen)	Nitrite only (optional, mg/L nitrite nitrogen)
Sample #1		
Sample #2		
Sample #3		
Average		

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Notes:

### Stop and Check:

Are all measurements within 0.1 ppm of the average (or 1.0 ppm if using the high range test)? If not, read the color measurements again and calculate a new average.