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 for Youth
  - Use this data sheet when working with young researchers.

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

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

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

Width of moving water: _____ meters

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

Area of standing water: _____ km^2

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)

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

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

Comments:

GLOBE Nitrates Data Sheet: Youth

Name: _____

Site Name: _____

Date: _____ Time (local): _____

Water State: ☐ Normal ☐ Flooded ☐ Dry ☐ Frozen ☐ Unreachable

If anything except Normal is selected, stop here!

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		

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.