

New Public Water Systems Transient Non-Community Public Water System (TNC PWS)

To aid you in submitting a complete application to the Bureau of Safe Drinking Water (BSDW), here is a brief summary of the information and data requirements that comprise the public water system permitting process. Please keep in mind that this summary, while reasonably complete, may not necessarily enumerate every requirement contained in NAC 445A, "Public Water Systems Design, Construction, Operation and Maintenance". You are encouraged to review this and other regulations to personally ascertain applicable sections.

The process of securing a permit to operate a **transient non-community public water system** in Nevada is three fold:

1. Design and construction of facilities and components of the water system must be in accordance with State requirements, detailed in NAC 445A "Public Water Systems Design, Construction, Operation and Maintenance".
2. Water quality must conform to drinking water standards, per NAC 445A "Public Water Systems Water Quality".
3. The water system owner must submit the following plans:
 - a) cross-connection control (backflow) per NAC 445A.67185
 - b) emergency per NAC 445A.66665
 - c) operation and maintenance per NAC445A.6667.

Any existing water system components of an un-permitted water system are not "grandfathered" or exempted from design and construction regulations. A Nevada professional engineer must provide BSDW with plans and specifications of sufficient detail to determine whether or not any "as-built" facilities are adequate. This also applies to well construction, should the well already be fitted with a pump and discharge piping.

Information related to the policies and procedures of the water system, as well as budgetary and financial plans, must also be submitted for review and approval prior to permitting.

Among additional information required is the following:

Design Report

- a) Provide a design report that describes the proposed water system, the basis of design, criteria for supply and demand, etc.
- b) Provide a network hydraulic analysis of the water system, which serves to size water system components and ensures that performance standards are met.

Source Water

- a) Provide evidence of water rights of acceptable amount and character.
- b) Provide a well log of any existing wells intended for use to verify the presence or absence of a sanitary seal and to depict casing information. Note that existing facilities are not "grandfathered".
- c) Provide well construction details, drawn as part of the plans, including wellhead piping and equipping details (venting, well-to-waste, valves, piping, sampling tap, access tube, air relief, etc.). Verify that well casing is at least 18 inches above grade or not subject to flooding.

- d) Maintain well separation criteria from sources of pollution or contamination. Provide detail suitable for inclusion in the "Source Water Assessment Program".

Storage

Provide plans and specifications for any new storage tank that address the requirements of NAC 445A.67065 through 445A.67095 inclusive. Provide calculations used to size tank overflow. Provide lockable access hatch and cage, hand rails, correct sized screening on vents, angled flapper or air gap on discharge and overflow lines, silt stop, sampling tap, staff gauge, 30-inch man ways, NSF approved coating, etc. Specify VOC and total coliform sampling per NAC. Specify telemetry system and controls to monitor, alarm, and regulate storage.

Specify additional design criteria for any new tank:

- a) seismic zone
- b) snow loading
- c) wind loading and exposure
- d) soils report

After conceptual approval of any storage facilities by BSDW, please provide this office with professionally engineered calculations for the tank structure and foundation when they become available after bid award.

Water Treatment

Are provisions for chlorination proposed? If so, provide design information. An emergency eyewash station would be required, per OSHA. Propose appropriate treatment for any constituents that don't meet State Drinking Water Standards. Submit plans and specifications.

Pump Station

Provide a design of any pumping facilities/pump house, which complies with NAC 445A.66965 through NAC 445A.6706 inclusive. Provide details of pumping facilities/pump house in plan and profile, which depict components, dimensions, and placement. Provide architectural and structural details of pump house per NAC 445A.66985. Provide an electrical plan. Provide a slab reinforcing detail.

Distribution System

Provide required isolation valves. Provide plan and profile of water lines. Provide for air releases as required. Maintain required water line/sewer line separations, including those for laterals. Provide a separation standard detail. Specify angle fittings to accomplish pipe bends, rather than bending the pipe beyond the manufacturer's approved bending radius. Provide standard details of corp stops and curb stops or meter stops on the service lines. Include backflow prevention, as appropriate. Be sure to isolate process, fire and irrigation water from potable water. The distribution system is to be looped, if possible.

Disinfection and Testing

Specify disinfection of distribution lines per AWWA Standard C-651 and pressure testing per AWWA Standard C-605.

Water Quality

Data will need to be provided from the source. Required water quality sampling data are summarized as follows: Secondary Drinking Water Standards, Nitrate, Nitrite, Nitrate + Nitrite, Total Coliform and Fecal Coliform/E. Coli. Water quality samples may be composited by a certified laboratory.

Water Well Location

Plot on a map all potential sources of pollution or contamination within 150 feet of the well.

A copy of "REGULATIONS FOR PUBLIC WATER SYSTEMS" NAC 445A.450 TO 445A.6731 may be downloaded from <http://www.leg.state.nv.us/NAC/NAC-445A.html>.

Please call Jim Balderson at 775-687-9517 for additional information.

Attachments: Application for Approval of a Water Project
Potential Contamination Sources
State Certified Methodologies



APPLICATION FOR APPROVAL OF WATER PROJECT

Return to: Bureau of Safe Drinking Water, Carson City Location
901 South Stewart Street, Suite 4001, Carson City, NV 89701, Phone: 775-687-9521, Fax: 775-687-5699

Section 1 (Please confirm Public Water System (PWS) number with the appropriate PWS)

| | |
|---------------------|-------------------------------|
| PWS Name: | PWS Phone #: |
| PWS Number: | PWS Fax #: |
| PWS Address: | PWS Emergency Phone #: |
| | PWS Email: |

Section 2

| | |
|-----------------------------|--|
| PWS Contact Name: | PWS Contact Phone #: |
| PWS Contact Email: | PWS Contact Fax #: |
| PWS Contact Address: | PWS Contact Emergency Phone(s) #: |

Section 3

| | |
|-----------------------------------|---------------------------------------|
| Submitting Engineer Name: | Engineer Phone #: |
| Engineer Email: | Engineer Fax #: |
| Engineer Firm and Address: | Engineer Emergency Phone(s) #: |

Section 4

Date of application submittal: County in which the water system is located:

Section 5

Are two copies of wet stamped plans and specifications submitted with this application? Yes No

Section 6

Is the appropriate review fee attached? Yes No
(fee schedule located at https://ndep.nv.gov/uploads/water-drinking-forms-docs/Fee_Schedule_7-1-19.pdf)

Section 7

Project Name:

Section 8

Brief Description and Purpose of the Project:

Section 9

Is this project part of a proposed subdivision? No Yes,
if yes, submit the subdivision project to the NDEP, Bureau of Water Pollution

Section 10

Estimated Construction Begin Date:

Section 11

Estimated Construction Completion Date:

Complete the following with assistance from the public water system.

Public Water System Type: Community NTNC TNC
PWS Ownership Type: Public Private Homeowner Federal GID Other:

Section 13 (Contact the appropriate PWS for this information)

| | | |
|--------------------|---------------------------|---------------------------|
| Population Served: | # of Service Connections: | # of Metered Connections: |
| | | |

Section 13

Are any of the above parameters changing due to this project? Yes No

If yes, describe the changes:

Section 14

Provide a **flow diagram** from source through treatment to the distribution system. Is it attached? Yes

Section 15

EXISTING PUBLIC WATER SYSTEMSIs the proposed project an expansion or modification of an existing water system? Yes NoIs the proposed project to re-activate a public water system? Yes NoIs this project for a water system that is regulated by the PUC? Yes No**CHECK ALL THAT APPLY TO THIS PROJECT.**

Section 16

Please refer to the following NAC 445A sections for specific regulatory requirements regarding public water system design and operation. Verify that all components are addressed and meet the minimum requirements of NAC 445A.

Public Water Systems

- | | |
|---|---|
| <input type="checkbox"/> Water Quality (NAC 445A.450 to .492) | <input type="checkbox"/> Operation Community or Non-transient Water System (NAC 445A.591 to .5926) |
| <input type="checkbox"/> Surface Water Treatment (NAC 445A.495 to .540) | <input type="checkbox"/> Permits to Operate Privately Owned Systems (NAC 445A.595 to .614) |
| <input type="checkbox"/> Groundwater Treatment (NAC 445A.54022 to .5405) | <input type="checkbox"/> Certification of Operators (NAC 445A.617 to .652) |
| <input type="checkbox"/> PER-Groundwater Treatment | |

Design, Construction, Operation & Maintenance

- | | |
|--|--|
| <input type="checkbox"/> Emergency Response Plan (See Sections 30-34) (NAC 445A.66665) | <input type="checkbox"/> Pumping Facilities (See Sections 17-19, 23) (NAC 445A.66965 to .6706) |
| <input type="checkbox"/> O & M Manual (See Sections 30-34) (NAC 445A.6667) | <input type="checkbox"/> Storage Structures (See Section 17-19, 21) (NAC 445A.67065 to .67095) |
| <input type="checkbox"/> Existing & New Systems–Capacity (See Sections 17-19, 24 for Existing, 30-34 New System) (NAC 445A.6672 to .66755) | <input type="checkbox"/> Distribution System (See Section 17-19, 22) (NAC 445A.67105 to .67145) |
| <input type="checkbox"/> Treatment Facilities (See Sections 17-19, 24) (NAC 445A.6676 to .66815) | <input type="checkbox"/> Separation of Lines (See Section 17-19, 22) (NAC 445A.6715 to .6718) |
| <input type="checkbox"/> Disinfection (See Sections 17-19, 24-25) (NAC 445A.66825 to .6685) | <input type="checkbox"/> Cross-Connection Control Plan (See Sections 30-34) (NAC 445A.67185) |
| <input type="checkbox"/> Water Wells (See Sections 17-19, 20) (NAC 445A.66855 to .6693) | <input type="checkbox"/> Cross-Connections and Backflow (See Sections 30-34) (NAC 445A.67185 to .67255) |
| <input type="checkbox"/> Springs (See Sections 17-19) (NAC 445A.66935 to .6696) | <input type="checkbox"/> Water Hauling (See Section 29) (NAC 445A.67275 to .6731) |

NEW PROJECT INFORMATION ONLY

Include only information related to the new project below.

Do not provide existing water system information unless it is pertinent to the new project.

Leave sections that do not apply to the new project blank (or type "N/A").

IF THE BOXES ARE NOT APPROPRIATELY FILLED OUT, APPLICATION WILL BE SENT BACK.

Section 17

Source Type:

| | | | | | |
|---------------------------|------------------------------|-----------------------------|--------------------------|------------------------------|-----------------------------|
| Groundwater well | <input type="checkbox"/> Yes | <input type="checkbox"/> No | Groundwater Spring | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| Surface Water Intake | <input type="checkbox"/> Yes | <input type="checkbox"/> No | Spring UDI | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| Purchased Water | <input type="checkbox"/> Yes | <input type="checkbox"/> No | System has water rights? | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| Source(s) master metered? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | | | |

Section 18

Source Location:

| | | |
|---|------------------------------|-----------------------------|
| Meets flood plain requirements? | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| Are all sources of potential pollution identified? | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| Are there any sources of contamination within 150 feet? | <input type="checkbox"/> Yes | <input type="checkbox"/> No |

Section 19

Source Water Quality:

| | | |
|--|------------------------------|-----------------------------|
| Meets all NAC requirements? | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| Requires treatment to meet requirements? | <input type="checkbox"/> Yes | <input type="checkbox"/> No |

Section 20

Well Characteristics:

| | |
|--|----------------------------------|
| Casing Depth (ft.): | Pump Type: |
| Casing Diameter (in): | Max. Production (gpm): |
| Sanitary Seal Depth (ft): | Source Design Capacity (gpm): |
| Emergency Power Provided? <input type="checkbox"/> Yes <input type="checkbox"/> No | Average Daily Demand (gpm): |
| Describe Emergency Power: | Emergency Source Capacity (gpm): |

Section 21

Storage Characteristics:

| |
|---------------------------------|
| Storage tank type and material: |
| Tank capacity (gallons): |
| Storage tank coating material: |

Section 22

Transmission/Distribution System Characteristics:

| | |
|---|--------------------------|
| Approved pipe material type: | |
| Distribution main size(s): | |
| Linear feet of pipe: | |
| Distribution system pressure range(s): | |
| Number of pressure zones: | |
| <u>Fire Flow:</u> Provide documentation of fire flow requirements from the appropriate fire authority. 1. For Carson City, Clark County, and Washoe County contact the local fire authority. 2. For all other counties, contact the State Fire Marshal's office or the local fire authority that as an interlocal agreement with the State Fire Marshal. | |
| Hydrant (gpm) = | Sprinkler System (gpm) = |
| Can the new main be sampled for coliform bacteria after disinfection every 1200 feet per AWWA Standard C651 requirements? <input type="checkbox"/> Yes <input type="checkbox"/> No If no, explain: | |

Section 23

Booster Pump Stations:

| | |
|---------------------------|-------------------------------|
| Pump Type: | # of pumps: |
| Max. Production (gpm): | Source Design Capacity (gpm): |
| Describe Emergency Power: | |

Section 24

Treatment:

| | |
|---|---|
| Contaminant(s) that require treatment: | |
| <input type="checkbox"/> Treating Groundwater | <input type="checkbox"/> Treating Surface Water |
| Unit Processes & Associated Chemical Addition: | |
| Flow Rate (gpd): | Flow Rate (gpm): |
| Design Capacity (gpd): | |
| A schematic of the treatment system is required. Is it attached? <input type="checkbox"/> Yes | |
| Describe the Process Flow from source to treatment to distribution: | |

Section 25

Chlorination for system residual only:

| |
|---|
| Type of disinfectant used: |
| NSF approved chemicals used? <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Does the system use continuous automatic disinfection? <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Where are the disinfection systems located? |
| Where are the chemicals stored? |

Section 26

SCADA/Telemetry:

| |
|--|
| Does the public water system utilize SCADA/Telemetry? <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Which facilities are part of the SCADA/Telemetry system? |

Section 27

Inter-Tie:

| | |
|--|--------------------------------|
| Name of other system: | Anticipated date of inter-tie: |
| Reason for inter-tie (check all that apply): <input type="checkbox"/> Normal Operations <input type="checkbox"/> Intermittent <input type="checkbox"/> Seasonal <input type="checkbox"/> Emergency | |
| <input type="checkbox"/> Other, explain: | |
| Flow is: <input type="checkbox"/> one-way; Discuss direction and % of flow: | |
| <input type="checkbox"/> two-way; Discuss direction and % of flow: | |
| Is the inter-tie part of a regional water system? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, explain: | |

Section 28

Consolidation:

| | |
|-----------------------|------------------------------------|
| Name of other system: | Anticipated date of consolidation: |
| Supplier of water: | |

Section 29

Water Hauling:

| |
|--|
| A water hauling plan is required. Is it attached? <input type="checkbox"/> Yes |
| Is this for an existing water hauler? <input type="checkbox"/> Yes <input type="checkbox"/> No |
| If yes, please provide water hauler permit number(s): |
| Public water system hauling from: |
| Public water system hauling to: |

NEW PUBLIC WATER SYSTEMS

(An overview of the requirements to becoming a public water system can be found at <http://ndep.nv.gov/bsdw/nws.htm>)

Section 30

Is the proposed project a new public water system? Yes No

If Yes, check type: Community Non-Transient Non-Community Transient Non-Community

Is this project to permit a privately owned community (residential) system? Yes No

Section 31

New Community Publicly Owned Public Water System must also submit the following:

- Plan to Permit a Public Water System**
- Plan for Restoration of Services in Emergency (draft version acceptable)
- Cross-Connection Control Plan (draft version acceptable)
- Manual of Operations and Maintenance (draft version acceptable)

Section 32

New Community Privately Owned Public Water System must also submit the following:

- Plan to Permit a Public Water System**
- Plan to Permit a Privately Owned Public Water System**
- Plan for Restoration of Services in Emergency (draft version acceptable)
- Cross-Connection Control Plan (draft version acceptable)
- Manual of Operations and Maintenance (draft version acceptable)

Section 33

New Non-Transient Non-Community Public Water System must also submit the following:

- Plan to Permit a Public Water System**
- Plan for Restoration of Services in Emergency (draft version acceptable)
- Cross-Connection Control Plan (draft version acceptable)
- Manual of Operations and Maintenance (draft version acceptable)

Section 34

New Transient Non-Community Public Water System must also submit the following:

- Plan for Restoration of Services in Emergency (draft version acceptable)
- Cross-Connection Control Plan (draft version acceptable)
- Manual of Operations and Maintenance (draft version acceptable)

** "Plan to Permit" forms are located at <http://ndep.nv.gov/bsdw/epr-docs.htm>.

Section 35

Program to Assess Vulnerability of Source Water to Potential Contamination, NAC 445A.6668, (Optional):

| | |
|--|--|
| Was a completed vulnerability assessment submitted for all sources? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Does the document contain sufficient information to issue monitoring waivers? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Are all of the potential contaminant sources within 3000 feet of the well/spring located on a 1:24,000 U.S.G.S. Quad Map (7.5-minute map)? | <input type="checkbox"/> Yes <input type="checkbox"/> No |

POTENTIAL CONTAMINATION SOURCES

(* Denotes GPS location required)

| Agricultural | | Contaminant Category | Risk Ranking Category | | Medical/Educational | Contaminant Category | Risk Ranking Category |
|---------------------|---|-----------------------------|-------------------------------------|------|--|-----------------------------|------------------------------|
| 1 | Animal burial areas | C, D | High | 28 | Educational institutions (labs, lawns, & chemical storage areas) | B, C | Moderate |
| 2 * | Animal feedlots | B, C, D | High, in Zone A; otherwise moderate | | | | |
| 3 | Chemical application (e.g. pesticides, fungicides, & fertilizers) | C, B | High | 29 | Medical institutions (medical dental, vet offices) | D, E | Low |
| 4 * | Chemical mixing & storage areas (including rural airports) | A, B, C | High | 30 * | Research laboratories | A, B, C, D, E | High |
| 5 | Irrigated fields | B | Moderate | | Storage | | |
| | Irrigation ditches | C | High | | | | |
| 6 | Manure spreading & pits | A, C | Moderate | 31 * | Aboveground storage tanks | A, B | High |
| 7 * | Unsealed irrigation wells | A, B, C, D | High | 32 * | Underground storage tanks | A | High |
| | | | | 33 | Public storage | A | Low |
| | | | | 34 * | Radioactive materials storage | E | High |
| | Industrial | | | | | | |
| 8 * | Chemical manufacturers, Warehousing/distribution activities | A, B, C | High | | Municipal waste | | |
| 9 * | Electroplaters & fabricators | C | High | 35 * | Dumps and landfills (historical/active) | A, B, C, D, E | High |
| 10 * | Electrical products & manufacturing | C | High | 36 | Municipal incinerators | B, C, D | Moderate |
| 11 * | Machine & metalworking shops | A | High | 37 * | Recycling & reduction facilities | C | High |
| 12 * | Manufacturing sites | A, B, C | High | 38 * | Scrap & junkyards | A, C | High |
| 13 * | Petroleum products production, Storage & distribution centers | A | High | 39 * | Septage Lagoons, wastewater treatment plants, injection wells | A, B, C, D | High |
| | | | | 40 * | Sewer Transfer Stations | A, B, C, D | High |
| | Commercial | | | | | | |
| 14 * | Dry cleaning establishments | A | High | 41 * | Airports | A | High |
| 15 * | Furniture & wood stripper & Refinishers | A | High | 42 * | Asphalt plants | A | High |
| | | | | 43 | Boat yards | A | High |
| 16 * | Jewelry & Metal plating | C | High | 44 | Cemeteries | D | Moderate |
| 17 | Laundromats | C | Low | 45 | Construction areas | A | Moderate |
| 18 * | Paint shops | A | High | 46 * | Dry wells | A, D | High |
| 19 * | Photography establishments & Printers | C | High | 47 * | Fuel storage systems | A | High |
| | | | | 48 | Golf courses, parks & nurseries (chemical application) | B, C | High |
| | | | | 49 | Mining (surface & underground) | A, C | High |
| | | | | 50 | Pipelines (oil, gas, coal slurry) | A | High |
| 20 * | Auto repair shops | A, C | High | 51 * | Railroad tracks, yards & maintenance | A, B, C, D | High |
| 21 | Car washes | A, C, D | Moderate | 52 | Surface water impoundments, streams/ditches | D | High |
| 22 * | Gas stations | A, C | High | | | | |
| 23 | Road deicing operations: storage & Application areas (e.g. road salt) | C | Moderate | 53 * | Stormwater drains & retention basins | A, B, C, D, E | High |
| 24 * | Road maintenance depots | A, C | High | 54 * | Unplugged abandoned well | A, B, C, D | High |
| | | | | 55 * | Well: operating | A, B, C, D | High→Low |
| | | | | 56 | Other – please specify | | |
| | Residential | | | | | | |
| 25 | Household hazardous products | A, B, C | Moderate | | | | |
| 26 | Private wells | A, B, C, D | Moderate | | | | |
| 27 | Septic systems, cesspools | B, C, D | High, if Zone A; otherwise moderate | | | | |

Contaminant Categories:

A = V.O.C.
B = S.O.C.
C = I.O.C.
D = MICROBIOLOGICAL
E = RADIONUCLIDES

**SECONDARY DRINKING WATER STANDARDS
NAC 445A.455**

| Contaminant | | | Method | MCL (mg/L) parts per million |
|-------------|------|------------------------------|--|------------------------------------|
| (1) | 1002 | ALUMINUM | 200.7, 200.8, 200.9, 3111D, 3113B, 3120B | 0.2 |
| (2) | 1017 | CHLORIDE | 300.0, 4110B, 4500-Cl ⁻ B/D, D4327-97, D512-89B | 400.0 |
| (3) | 1905 | COLOR | 2120B | 15.0 (color units) |
| (4) | 1022 | COPPER | 200.7, 200.8, 200.9, 3111B, 3113B, 3120B, D1688-95A/C | 1.0 |
| (5) | 1025 | FLUORIDE | 300.0, 4110B, 380-75WE, D4327-97, D1179-93B, 29-71W, 4500-F ⁻ B/C/D/E | 2.0 |
| (6) | 1089 | FOAMING AGENTS (MBAS) | 5540C | 0.5 |
| (7) | 1028 | IRON | 200.7, 200.9, 3111B, 3113B, 3120B | 0.6 |
| (8) | 1031 | MAGNESIUM | 200.7, 3111B, 3120B D511-93 A/B, 3500-Mg B/E | 150.0 |
| (9) | 1032 | MANGANESE | 200.7, 200.8, 200.9, 3111B, 3113B, 3120B | 0.1 |
| (10) | 1920 | ODOR | 2150B | 3.0 (TON) |
| (11) | 1925 | pH | 150.1, 150.2, 4500-H ⁺ -B, D1293- 95 | 6.5 – 8.5 |
| (12) | 1050 | SILVER | 200.7, 200.8, 200.9, 3111B, 3113B, 3120B, I-3720-85 | 0.10 |
| (13) | 1055 | SULFATE | 300.0, 375.2, D4327-97, 4110B, D516-90, 4500-SO ₄ ²⁻ C/E/F | 500.0 |
| (14) | 1930 | TOTAL DISSOLVED SOLIDS (TDS) | 2540C | 1,000.00 |
| (15) | 1095 | ZINC | 200.7, 200.8, 3111B, 3120B | 5.0 |

**REGULATED INORGANIC CHEMICALS (IOCs)
40 CFR 141.62 (b)**

| PHASE II | | | | |
|-------------|------|-------------------------|--|------------------------------------|
| Contaminant | | Method | MCL (mg/L) parts per million | MCL (µg/L) parts per billion |
| (7) | 1040 | NITRATE | 300.0, 353.2, 4110B, 601, B-1011, 4500-NO ₃ ⁻ D/E/F, D3867-90A/B, D4327-97 | 10 (as N) |
| (8) | 1041 | NITRITE | 300.0, 353.2, D4327-97, D3867-90A/B, 4110B, 4500-NO ₂ ⁻ /E/F, B-1011, 4500-NO ₂ ⁻ B | 1 (as N) |
| (9) | 1038 | TOTAL NITRATE + NITRITE | See above | 10 (as N) |