

Reference Table Physical Characteristics

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| Name | Alias Type | Alias Name |
|---------------------------------------|-----------------------------|--------------------------------|
| Actual Number of Individuals Examined | | |
| Actual Number of Individuals Measured | | |
| Actual Number of Individuals Weighed | | |
| Age | EPA ID (SUBSTANCE REGISTRY) | E1647940 |
| | EPA REFERENCE ID (EPA ONLY) | 1647940 |
| | EPA SYSTEMATIC NAME | Age |
| | STORET PARM CODE | 84015 -- AGE OF SPECIMEN YEARS |
| Age, Otoliths (Fish) | EPA ID (SUBSTANCE REGISTRY) | E1642743 |
| | EPA REFERENCE ID (EPA ONLY) | 1642743 |
| | EPA SYSTEMATIC NAME | Fish otolith age |
| Age, Scales (Fish) | EPA ID (SUBSTANCE REGISTRY) | E1642750 |
| | EPA REFERENCE ID (EPA ONLY) | 1642750 |
| | EPA SYSTEMATIC NAME | Fish scales age |
| Age, Spines (Fish) | EPA ID (SUBSTANCE REGISTRY) | E1642768 |
| | EPA REFERENCE ID (EPA ONLY) | 1642768 |
| | EPA SYSTEMATIC NAME | Fish spines age |
| Age, Vertebra (Fish) | EPA ID (SUBSTANCE REGISTRY) | E1642792 |
| | EPA REFERENCE ID (EPA ONLY) | 1642792 |
| | EPA SYSTEMATIC NAME | Fish vertebra age |
| Altitude | EPA ID (SUBSTANCE REGISTRY) | E1641018 |
| | EPA REFERENCE ID (EPA ONLY) | 1641018 |
| | EPA SYSTEMATIC NAME | Altitude |
| | STORET PARM CODE | 00042 -- ALTITUDE FEET AB MSL |

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| Name | Alias Type | Alias Name |
|-----------------------------------|-----------------------------|-------------------------------------|
| Barometric pressure | EPA ID (SUBSTANCE REGISTRY) | E1641265 |
| | EPA REFERENCE ID (EPA ONLY) | 1641265 |
| | EPA SYSTEMATIC NAME | Barometric pressure |
| | STORET PARM CODE | 00025 -- BAROMTRC PRESSURE MM OF HG |
| Biomass | EPA ID (SUBSTANCE REGISTRY) | E1647742 |
| | EPA REFERENCE ID (EPA ONLY) | 1647742 |
| | EPA SYSTEMATIC NAME | Biomass |
| | STORET PARM CODE | 70939 -- BIOMASS ASH-FREE WEIGHT |
| | STORET PARM CODE | 83506 -- BIOMASS WET WT TOTAL G |
| Biomass, benthic | EPA ID (SUBSTANCE REGISTRY) | E1647759 |
| | EPA REFERENCE ID (EPA ONLY) | 1647759 |
| | EPA SYSTEMATIC NAME | Biomass, benthic |
| | STORET PARM CODE | 00571 -- BIOMASS BENTHIC G/SQ M |
| Biomass, drift macroinvertebrates | EPA ID (SUBSTANCE REGISTRY) | E1647809 |
| | EPA REFERENCE ID (EPA ONLY) | 1647809 |
| | EPA SYSTEMATIC NAME | Biomass, drift macroinvertebrates |
| | STORET PARM CODE | 71496 -- BIOMASS INVERTS G/M2 |
| Biomass, periphyton | EPA ID (SUBSTANCE REGISTRY) | E1647825 |
| | EPA REFERENCE ID (EPA ONLY) | 1647825 |
| | EPA SYSTEMATIC NAME | Biomass, periphyton |
| | STORET PARM CODE | 00572 -- BIOMASS PERPHYTN G/SQ M |
| | STORET PARM CODE | 00573 -- BIOMASS PERPHYTN DW G/M2 |
| Biomass, phytoplankton | EPA ID (SUBSTANCE REGISTRY) | E1647833 |
| | EPA REFERENCE ID (EPA ONLY) | 1647833 |
| | EPA SYSTEMATIC NAME | Biomass, phytoplankton |

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| Name | Alias Type | Alias Name |
|---|-----------------------------|-------------------------------------|
| Biomass, plankton | EPA ID (SUBSTANCE REGISTRY) | E1647841 |
| | EPA REFERENCE ID (EPA ONLY) | 1647841 |
| | EPA SYSTEMATIC NAME | Biomass, plankton |
| | STORET PARM CODE | 00570 -- BIOMASS PLANKTON ML/L |
| Biomass, zooplankton | EPA ID (SUBSTANCE REGISTRY) | E1647866 |
| | EPA REFERENCE ID (EPA ONLY) | 1647866 |
| | EPA SYSTEMATIC NAME | Biomass, zooplankton |
| Biomass/Chlorophyll ratio | EPA ID (SUBSTANCE REGISTRY) | E1641323 |
| | EPA REFERENCE ID (EPA ONLY) | 1641323 |
| | EPA SYSTEMATIC NAME | Biomass/chlorophyll ratio |
| | STORET PARM CODE | 70950 -- BIOMASS- CHLRATIO PERIUNIT |
| Carbon Fraction, Particulate Organic Material | STORET PARM CODE | 80102 |
| Cell Volume | | |
| Channel vegetative cover | EPA ID (SUBSTANCE REGISTRY) | E1641513 |
| | EPA REFERENCE ID (EPA ONLY) | 1641513 |
| | EPA SYSTEMATIC NAME | Channel vegetative cover |
| | STORET PARM CODE | 83512 -- CHANNEL VEG COVR EST % |
| Cloud cover | EPA ID (SUBSTANCE REGISTRY) | E1648047 |
| | EPA REFERENCE ID (EPA ONLY) | 1648047 |
| | EPA SYSTEMATIC NAME | Cloud cover |
| | STORET PARM CODE | 00032 -- CLOUD COVER PERCENT |
| Compass / Tilt (probe) | | |

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| Name | Alias Type | Alias Name |
|---------------------------------|-----------------------------|------------------------------------|
| Current direction | EPA ID (SUBSTANCE REGISTRY) | E52457132 |
| | EPA REFERENCE ID (EPA ONLY) | 52457132 |
| | EPA SYSTEMATIC NAME | Current direction |
| Current speed | EPA ID (SUBSTANCE REGISTRY) | E52457124 |
| | EPA REFERENCE ID (EPA ONLY) | 52457124 |
| | EPA SYSTEMATIC NAME | Current speed |
| Data-logger operating voltage | EPA ID (SUBSTANCE REGISTRY) | E1648088 |
| | EPA REFERENCE ID (EPA ONLY) | 1648088 |
| | EPA SYSTEMATIC NAME | Data-logger, operating voltage |
| Deoxygenation constant | EPA ID (SUBSTANCE REGISTRY) | E1641950 |
| | EPA REFERENCE ID (EPA ONLY) | 1641950 |
| | EPA SYSTEMATIC NAME | Deoxygenation constant |
| | STORET PARM CODE | 00325 -- DEOXY K1 BASE E PER DAY |
| | STORET PARM CODE | 82049 -- DEOXYGEN ATION CO NSTANT |
| Deoxygenation constant-Carbon | EPA ID (SUBSTANCE REGISTRY) | E1641968 |
| | EPA REFERENCE ID (EPA ONLY) | 1641968 |
| | EPA SYSTEMATIC NAME | Deoxygenation constant-carbon |
| | STORET PARM CODE | 82133 -- DEOXY-C K1-BAS E /DAY 20C |
| Deoxygenation constant-Nitrogen | EPA ID (SUBSTANCE REGISTRY) | E1641976 |
| | EPA REFERENCE ID (EPA ONLY) | 1641976 |
| | EPA SYSTEMATIC NAME | Deoxygenation constant-nitrogen |
| | STORET PARM CODE | 82132 -- DEOXY-N K1-BAS E /DAY 20C |
| Depth | EPA ID (SUBSTANCE REGISTRY) | E1641984 |
| | EPA REFERENCE ID (EPA ONLY) | 1641984 |
| | EPA SYSTEMATIC NAME | Depth |
| | STORET PARM CODE | 82015 -- DEPTH OF LAKE MEAN, FT |

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| Name | Alias Type | Alias Name |
|---------------------------------|-----------------------------|-----------------------------------|
| Depth, Secchi Disk Depth | EPA ID (SUBSTANCE REGISTRY) | E1646140 |
| | EPA REFERENCE ID (EPA ONLY) | 1646140 |
| | EPA SYSTEMATIC NAME | Water transparency, Secchi disc |
| | STORET PARM CODE | 00077 -- TRANSP SECCHI INCHES |
| | STORET PARM CODE | 00078 -- TRANSP SECCHI METERS |
| | STORET PARM CODE | 49701 -- TRNSPNCY SECHDISK WTR FT |
| | STORET PARM CODE | 82245 -- HORIZON SECCHI METERS |
| | STORET PARM CODE | 85164 -- SUSP SOL SECCHI DEPTH FT |
| Depth, below bottom surface | STORET PARM CODE | 00066 |
| Depth, bottom | EPA ID (SUBSTANCE REGISTRY) | E1642016 |
| | EPA REFERENCE ID (EPA ONLY) | 1642016 |
| | EPA SYSTEMATIC NAME | Depth, bottom |
| | STORET PARM CODE | 00064 -- DEPTH OF STREAM MEAN(FT) |
| | STORET PARM CODE | 00205 -- DEPTH OF LAKE (METERS) |
| | STORET PARM CODE | 72025 -- DEPTH OF POND FEET |
| | STORET PARM CODE | 81903 -- DPTH BOT AT SITE FEET |
| | STORET PARM CODE | 82903 -- DPTH BOT AT SITE METERS |
| Depth, data-logger (non-ported) | EPA ID (SUBSTANCE REGISTRY) | E1642024 |
| | EPA REFERENCE ID (EPA ONLY) | 1642024 |
| | EPA SYSTEMATIC NAME | Depth, data-logger, non-ported |
| Depth, data-logger (ported) | EPA ID (SUBSTANCE REGISTRY) | E1642032 |
| | EPA REFERENCE ID (EPA ONLY) | 1642032 |
| | EPA SYSTEMATIC NAME | Depth, data-logger, ported |

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| Name | Alias Type | Alias Name |
|--------------------------|-----------------------------------|-------------------------------------|
| Depth, snow cover | EPA ID (SUBSTANCE REGISTRY) | E1642065 |
| | EPA REFERENCE ID (EPA ONLY) | 1642065 |
| | EPA SYSTEMATIC NAME | Depth, snow cover |
| | STORET PARM CODE | 82300 -- SNOW DEPTH INCHES |
| Deuterium/Hydrogen ratio | EPA ID (SUBSTANCE REGISTRY) | E1642107 |
| | EPA REFERENCE ID (EPA ONLY) | 1642107 |
| | EPA SYSTEMATIC NAME | Deuterium/Hydrogen ratio |
| | STORET PARM CODE | 82082 -- H2/H1 RA TIO PER MIL |
| Diameter | EPA ID (SUBSTANCE REGISTRY) | E1642115 |
| | EPA REFERENCE ID (EPA ONLY) | 1642115 |
| | EPA SYSTEMATIC NAME | Diameter |
| Discharge velocity | EPA ID (SUBSTANCE REGISTRY) | E1645555 |
| | EPA REFERENCE ID (EPA ONLY) | 1645555 |
| | EPA SYSTEMATIC NAME | Velocity of discharge |
| | STORET PARM CODE | 81380 -- VELOCITY DISCHARG M/S |
| Distance from/to | EPA ID (SUBSTANCE REGISTRY) | E1642248 |
| | EPA REFERENCE ID (EPA ONLY) | 1642248 |
| | EPA SYSTEMATIC NAME | Distance |
| | STORET PARM CODE | 00006 -- DISTANCE FR X MILES |
| | STORET PARM CODE | 00007 -- DISTANCE FR Y MILES |
| | STORET PARM CODE | 49281 -- DISTANCE CRSS-SEC DWNSTRM% |
| | STORET PARM CODE | 72029 -- DISTANCE FR SOUTH FEET |
| STORET PARM CODE | 83503 -- DISTANCE FR SHORE METERS | |

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| Name | Alias Type | Alias Name |
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| Dry period preceding precipitation | EPA ID (SUBSTANCE REGISTRY) | E1642396 |
| | EPA REFERENCE ID (EPA ONLY) | 1642396 |
| | EPA SYSTEMATIC NAME | Dry period preceding precipitation |
| | STORET PARM CODE | 00132 -- DRY DAYS PRECEDNG PRECIP |
| Elevation, MSL | EPA ID (SUBSTANCE REGISTRY) | E1642487 |
| | EPA REFERENCE ID (EPA ONLY) | 1642487 |
| | EPA SYSTEMATIC NAME | Elevation, mean sea level |
| | STORET PARM CODE | 72020 -- ELEV FEET AB MSL |
| | STORET PARM CODE | 72106 -- ELEVAT'N OFSAMPLE (FEET) |
| | STORET PARM CODE | 72110 -- ELEVFEET AB MSL FEET |
| Elevation, aquifer top, MSL | EPA ID (SUBSTANCE REGISTRY) | E1642453 |
| | EPA REFERENCE ID (EPA ONLY) | 1642453 |
| | EPA SYSTEMATIC NAME | Elevation, aquifer top, mean sea level |
| | STORET PARM CODE | 04361 -- ELEVATION TOPAQFER NGVD FT |
| Elevation, groundwater surface, MSL | EPA ID (SUBSTANCE REGISTRY) | E1642461 |
| | EPA REFERENCE ID (EPA ONLY) | 1642461 |
| | EPA SYSTEMATIC NAME | Elevation, groundwater surface, mean sea level |
| | STORET PARM CODE | 04189 -- ELEVATIN ABOVE SL GRDWTR M |
| | STORET PARM CODE | 71993 -- ELEVAT'N GW/SL FEET |
| Elevation, land surface, MSL | EPA ID (SUBSTANCE REGISTRY) | E1642479 |
| | EPA REFERENCE ID (EPA ONLY) | 1642479 |
| | EPA SYSTEMATIC NAME | Elevation, land surface, mean sea level |
| | STORET PARM CODE | 72000 -- LND SURF DATUM FT |
| | STORET PARM CODE | 72009 -- ELEV LND SURF FT |

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| Name | Alias Type | Alias Name |
|-----------------------------------|-----------------------------|--|
| Elevation, tailwater surface, MSL | EPA ID (SUBSTANCE REGISTRY) | E1642495 |
| | EPA REFERENCE ID (EPA ONLY) | 1642495 |
| | EPA SYSTEMATIC NAME | Elevation, tailwater surface, mean sea level |
| | STORET PARM CODE | 72031 -- TAILWATR ELEV,FT ABOV MSL |
| Elevation, water surface, MSL | EPA ID (SUBSTANCE REGISTRY) | E1642503 |
| | EPA REFERENCE ID (EPA ONLY) | 1642503 |
| | EPA SYSTEMATIC NAME | Elevation, water surface, mean sea level |
| | STORET PARM CODE | 00062 -- WATER SURF ELE IN FEET |
| | STORET PARM CODE | 50038 -- W-L REL TO REF PT. FT |
| | STORET PARM CODE | 50040 -- ELEVAT'N WL/SL FEET |
| | STORET PARM CODE | 72030 -- FOREBAY ELEV,FT ABOV MSL |
| Embeddedness | EPA ID (SUBSTANCE REGISTRY) | E1644814 |
| | EPA REFERENCE ID (EPA ONLY) | 1644814 |
| | EPA SYSTEMATIC NAME | Embeddedness |
| | STORET PARM CODE | 84134 -- EMBEDDED NESS DGR CODE |
| Fish Anomalies - Deformities | | |
| Fish Anomalies - Erosions | | |
| Fish Anomalies - Lesions | | |
| Fish Anomalies - Multiples | | |
| Fish Anomalies - Tumors | | |
| Fish Condition Factor | EPA ID (SUBSTANCE REGISTRY) | E1642719 |
| | EPA REFERENCE ID (EPA ONLY) | 1642719 |
| | EPA SYSTEMATIC NAME | Fish condition factor |

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| Name | Alias Type | Alias Name |
|------|-----------------------------|---|
| Flow | EPA ID (SUBSTANCE REGISTRY) | E1643212 |
| | EPA REFERENCE ID (EPA ONLY) | 1643212 |
| | EPA SYSTEMATIC NAME | Flow |
| | STORET PARM CODE | 00056 -- FLOW RATE GPD |
| | STORET PARM CODE | 00058 -- FLOW RATE GPM |
| | STORET PARM CODE | 00059 -- FLOW RATE INST-GPM |
| | STORET PARM CODE | 00060 -- STREAM FLOW CFS |
| | STORET PARM CODE | 00061 -- STREAM FLOW, INST-CFS |
| | STORET PARM CODE | 00091 -- MIN FLOW RANGE CFS |
| | STORET PARM CODE | 00092 -- MAX FLOW RANGE CFS |
| | STORET PARM CODE | 00130 -- MIN FLOW OVER RNG INST CFS |
| | STORET PARM CODE | 00131 -- MAX FLOW OVER RNG INST CFS |
| | STORET PARM CODE | 30208 -- FLOW CMS |
| | STORET PARM CODE | 30209 -- FLOW INSTNTAN CMS |
| | STORET PARM CODE | 49558 -- FLOW24HR COMP TOT EFFLMG/D |
| | STORET PARM CODE | 49884 -- HATCHERY FLOW EFFLUENT CFS |
| | STORET PARM CODE | 49885 -- HATCHERY FLOW TREATED EFFLUENT PERCENT |
| | STORET PARM CODE | 50042 -- DISCHARG RATE IN GPM |
| | STORET PARM CODE | 50047 -- MAX FLOW 24-HR MGD |
| | STORET PARM CODE | 50050 -- CONDUIT FLOW MGD |
| | STORET PARM CODE | 50051 -- FLOW RATE INST MGD |
| | STORET PARM CODE | 50052 -- TOT FLOW COMPOSIT 1000GALS |
| | STORET PARM CODE | 50053 -- CONDUIT FLOW-MGD MONTHLY |
| | STORET PARM CODE | 50054 -- STORMWTR OVERFLOW MILL GAL |
| | STORET PARM CODE | 70227 -- FLOW DIRECT AZIMUTH |
| | STORET PARM CODE | 70228 -- FLOW SPRING GPM |
| | STORET PARM CODE | 72004 -- PPG/FLOW PRIOR TO SMP-MINS |
| | STORET PARM CODE | 72033 -- AVG DAY SPILLWAY CFS |
| | STORET PARM CODE | 72034 -- INSTANT SPILLWAY CFS |
| | STORET PARM CODE | 74020 -- FLOW PUMP OUT MGD |

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| Name | Alias Type | Alias Name |
|--------------|-----------------------------|-------------------------------------|
| | STORET PARM CODE | 74060 -- FLOW RATE M3/DAY |
| | STORET PARM CODE | 74069 -- STREAM FLOW EST CFS |
| | STORET PARM CODE | 74071 -- FLOW GAL/HR |
| | STORET PARM CODE | 74072 -- FLOW L/SEC |
| | STORET PARM CODE | 74073 -- FLOW L/MIN |
| | STORET PARM CODE | 74075 -- FLOW L/DAY |
| | STORET PARM CODE | 74076 -- FLOW C UFT/MIN |
| | STORET PARM CODE | 74080 -- FLOW M G/MIN |
| | STORET PARM CODE | 81028 -- WITHDRAW GW MGAL/DAY |
| | STORET PARM CODE | 81395 -- STORM WATER FLOW MGD |
| | STORET PARM CODE | 81799 -- AVG.STRM FLOW PER COMP.CFS |
| | STORET PARM CODE | 82128 -- COOLING FLOW MGD |
| | STORET PARM CODE | 82600 -- PRODUCED WATER FLOW MGD |
| | STORET PARM CODE | 83549 -- FLOW CURRENT CMS |
| | STORET PARM CODE | 85079 -- CFS WITHDRAW SUMMER |
| | STORET PARM CODE | 85317 -- FLOW,IN LET MEAN MO.CMS |
| | STORET PARM CODE | 85318 -- FLOW,OU TLET MEA N MO.CMS |
| Flow, runoff | EPA ID (SUBSTANCE REGISTRY) | E1643386 |
| | EPA REFERENCE ID (EPA ONLY) | 1643386 |
| | EPA SYSTEMATIC NAME | Flow, runoff |
| | STORET PARM CODE | 74066 -- ANNUAL RUNOFF |
| Gage height | | |
| Girth | EPA ID (SUBSTANCE REGISTRY) | E1643576 |
| | EPA REFERENCE ID (EPA ONLY) | 1643576 |
| | EPA SYSTEMATIC NAME | Girth |

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| Name | Alias Type | Alias Name |
|-------------------------|-----------------------------|-------------------------------------|
| Height measure | EPA ID (SUBSTANCE REGISTRY) | E1643667 |
| | EPA REFERENCE ID (EPA ONLY) | 1643667 |
| | EPA SYSTEMATIC NAME | Height |
| Hilsenhoff Biotic Index | | |
| Ice thickness | EPA ID (SUBSTANCE REGISTRY) | E52457140 |
| | EPA REFERENCE ID (EPA ONLY) | 52457140 |
| | EPA SYSTEMATIC NAME | Ice thickness |
| | STORET PARM CODE | 82130 |
| Length | EPA ID (SUBSTANCE REGISTRY) | E1643782 |
| | EPA REFERENCE ID (EPA ONLY) | 1643782 |
| | EPA SYSTEMATIC NAME | Length |
| | STORET PARM CODE | 00024 -- LENGTH INCHES |
| | STORET PARM CODE | 00039 -- SAMPLE LENGTH MM |
| | STORET PARM CODE | 01360 -- SAMPLE LENGTH CM |
| | STORET PARM CODE | 01371 -- SMPL AVG LNGTH BI O.TISSCM |
| Length, Fork (Fish) | EPA ID (SUBSTANCE REGISTRY) | E1642735 |
| | EPA REFERENCE ID (EPA ONLY) | 1642735 |
| | EPA SYSTEMATIC NAME | Fish fork length |
| Length, Standard (Fish) | EPA ID (SUBSTANCE REGISTRY) | E1642776 |
| | EPA REFERENCE ID (EPA ONLY) | 1642776 |
| | EPA SYSTEMATIC NAME | Fish standard length |
| Length, Total (Fish) | EPA ID (SUBSTANCE REGISTRY) | E1642784 |
| | EPA REFERENCE ID (EPA ONLY) | 1642784 |
| | EPA SYSTEMATIC NAME | Fish total length |

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| Name | Alias Type | Alias Name |
|---|-----------------------------|--|
| Length, total | EPA ID (SUBSTANCE REGISTRY) | E1643808 |
| | EPA REFERENCE ID (EPA ONLY) | 1643808 |
| | EPA SYSTEMATIC NAME | Length, total |
| | STORET PARM CODE | 82655 -- FISH LENGTH TOTAL CM |
| Light Underwater Extinction Coefficient (K) | EPA ID (SUBSTANCE REGISTRY) | E52457165 |
| | EPA REFERENCE ID (EPA ONLY) | 52457165 |
| | EPA SYSTEMATIC NAME | Light, underwater extinction coefficient (K) |
| | STORET PARM CODE | 50971 |
| Light Underwater Incident | EPA ID (SUBSTANCE REGISTRY) | E1643923 |
| | EPA REFERENCE ID (EPA ONLY) | 1643923 |
| | EPA SYSTEMATIC NAME | Light, underwater incident |
| | STORET PARM CODE | 00113 -- UNDW INC SOL RAD FT-CDS |
| Light Underwater Incident + Reflected | EPA ID (SUBSTANCE REGISTRY) | E1643931 |
| | EPA REFERENCE ID (EPA ONLY) | 1643931 |
| | EPA SYSTEMATIC NAME | Light, underwater incident + reflected |
| Light Underwater Reflected | EPA ID (SUBSTANCE REGISTRY) | E1643949 |
| | EPA REFERENCE ID (EPA ONLY) | 1643949 |
| | EPA SYSTEMATIC NAME | Light, underwater reflected |
| | STORET PARM CODE | 00114 -- UNDW REF SOL RAD FT-CDS |
| Mine discharge | | |
| North Carolina Biotic Index | | |

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|-----------------------|-----------------------------|-------------------------------------|
| Particle distribution | EPA ID (SUBSTANCE REGISTRY) | E1642586 |
| | EPA REFERENCE ID (EPA ONLY) | 1642586 |
| | EPA SYSTEMATIC NAME | Particle distribution |
| | STORET PARM CODE | 00137 -- MINIMUM PARTICLE SIZE MM |
| | STORET PARM CODE | 00138 -- MAXIMUM PARTICLE SIZE MM |
| | STORET PARM CODE | 31900 -- SED PART SIZE %> -2.00PHI |
| | STORET PARM CODE | 46215 -- MECHANIC ANALYSIS % CLAY |
| | STORET PARM CODE | 46219 -- MECH ANA % COARSE SAND |
| | STORET PARM CODE | 46220 -- MECH ANA % MEDIUM SAND |
| | STORET PARM CODE | 46221 -- MECH ANA % FINE SAND |
| | STORET PARM CODE | 46222 -- MECH ANA % VERY FINE SAN |
| | STORET PARM CODE | 46530 -- SED PRT SIZE FRC CRS SAND |
| | STORET PARM CODE | 46531 -- SED PRT SIZE FRC MED SAND |
| | STORET PARM CODE | 50085 -- PARTICLE SUSPSED #/ML |
| | STORET PARM CODE | 50778 -- BEDLOAD SEDIMENT >.32MM % |
| | STORET PARM CODE | 50779 -- BEDLOAD SEDIMENT |
| | STORET PARM CODE | 50780 -- BEDLOAD SEDIMENT |
| | STORET PARM CODE | 50781 -- BEDLOAD SEDIMENT |
| | STORET PARM CODE | 50782 -- BEDLOAD SEDIMENT |
| | STORET PARM CODE | 50783 -- BEDLOAD SEDIMENT |
| | STORET PARM CODE | 70280 -- SED PART 500-2000 SIZE%TOT |
| | STORET PARM CODE | 70281 -- SED PART 2000-635 0SIZ%TOT |
| | STORET PARM CODE | 70282 -- SED PART 63-125U SIZE%TOT |
| | STORET PARM CODE | 70283 -- SED PART 125-500U SIZE%TOT |
| | STORET PARM CODE | 70326 -- SUSP SED PARTSIZE %<.002MM |
| | STORET PARM CODE | 70327 -- SUSP SED PARTSIZE %<.004MM |
| | STORET PARM CODE | 70328 -- SUSP SED PARTSIZE %<.008MM |
| | STORET PARM CODE | 70329 -- SUSP SED PARTSIZE %<.016MM |
| | STORET PARM CODE | 70330 -- SUSP SED PARTSIZE %<.031MM |
| | STORET PARM CODE | 70331 -- SUSP SED PARTSIZE %<.062MM |

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| Name | Alias Type | Alias Name |
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| | STORET PARM CODE | 70332 -- SUSP SED PARTSIZE %<.125MM |
| | STORET PARM CODE | 70333 -- SUSP SED PARTSIZE %<.250MM |
| | STORET PARM CODE | 70334 -- SUSP SED PARTSIZE %<.500MM |
| | STORET PARM CODE | 70335 -- SUSP SED PARTSIZE %<1.00MM |
| | STORET PARM CODE | 70336 -- SUSP SED PARTSIZE %<2.00MM |
| | STORET PARM CODE | 70337 -- SUSP SED PARTSIZE %<.002MM |
| | STORET PARM CODE | 70338 -- SUSP SED PARTSIZE %<.004MM |
| | STORET PARM CODE | 70339 -- SUSP SED PARTSIZE %<.008MM |
| | STORET PARM CODE | 70340 -- SUSP SED PARTSIZE %<.016MM |
| | STORET PARM CODE | 70341 -- SUSP SED PARTSIZE %<.031MM |
| | STORET PARM CODE | 70342 -- SUSP SED PARTSIZE %<.062MM |
| | STORET PARM CODE | 70343 -- SUSP SED PARTSIZE %<.125MM |
| | STORET PARM CODE | 70344 -- SUSP SED PARTSIZE %<.250MM |
| | STORET PARM CODE | 70345 -- SUSP SED PARTSIZE %<.500MM |
| | STORET PARM CODE | 70346 -- SUSP SED PARTSIZE %<1.00MM |
| | STORET PARM CODE | 70347 -- SUSP SED PARTSIZE %<2.00MM |
| | STORET PARM CODE | 80096 -- SEDIMENT %ORGANIC MATTER |
| | STORET PARM CODE | 80157 -- BED MATL PARTSIZE %<.004MM |
| | STORET PARM CODE | 80158 -- BED MATL PARTSIZE %<.062MM |
| | STORET PARM CODE | 80159 -- BED MATL PARTSIZE %<.125MM |
| | STORET PARM CODE | 80160 -- BED MATL PARTSIZE %<.250MM |
| | STORET PARM CODE | 80161 -- BED MATL PARTSIZE %<.500MM |
| | STORET PARM CODE | 80162 -- BED MATL PARTSIZE %<1.00MM |
| | STORET PARM CODE | 80163 -- BED MATL PARTSIZE %<2.00MM |
| | STORET PARM CODE | 80164 -- BED MATL PARTSIZE %<.062MM |
| | STORET PARM CODE | 80165 -- BED MATL PARTSIZE %<.125MM |
| | STORET PARM CODE | 80166 -- BED MATL PARTSIZE %<.250MM |
| | STORET PARM CODE | 80167 -- BED MATL PARTSIZE %<.500MM |
| | STORET PARM CODE | 80168 -- BED MATL PARTSIZE %<1.00MM |
| | STORET PARM CODE | 80169 -- BED MATL PARTSIZE %<2.00MM |

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| Name | Alias Type | Alias Name |
|------|------------------|-------------------------------------|
| | STORET PARM CODE | 80170 -- BED MATL PARTSIZE %<4.00MM |
| | STORET PARM CODE | 80171 -- BED MATL PARTSIZE %<8.00MM |
| | STORET PARM CODE | 80172 -- BED MATL PARTSIZE %<16.0MM |
| | STORET PARM CODE | 80173 -- BED MATL PARTSIZE %<32.0MM |
| | STORET PARM CODE | 80174 -- BED MATL PARTSIZE %<64.0MM |
| | STORET PARM CODE | 80175 -- BED MATL PARTSIZE %<128 MM |
| | STORET PARM CODE | 80176 -- BED MATL PARTSIZE %<1.19MM |
| | STORET PARM CODE | 80181 -- TOT SED PARTSIZE %<.002MM |
| | STORET PARM CODE | 80182 -- TOT SED PARTSIZE %<.004MM |
| | STORET PARM CODE | 80183 -- TOT SED PARTSIZE %<.008MM |
| | STORET PARM CODE | 80184 -- TOT SED PARTSIZE %<.016MM |
| | STORET PARM CODE | 80185 -- TOT SED PARTSIZE %<.031MM |
| | STORET PARM CODE | 80186 -- TOT SED PARTSIZE %<.062MM |
| | STORET PARM CODE | 80187 -- TOT SED PARTSIZE %<.125MM |
| | STORET PARM CODE | 80188 -- TOT SED PARTSIZE %<.250MM |
| | STORET PARM CODE | 80189 -- TOT SED PARTSIZE %<.500MM |
| | STORET PARM CODE | 80190 -- TOT SED PARTSIZE %<1.00MM |
| | STORET PARM CODE | 80191 -- TOT SED PARTSIZE %<2.00MM |
| | STORET PARM CODE | 80192 -- TOT SED NAT WTR %<.002MM |
| | STORET PARM CODE | 80193 -- TOT SED NAT WTR %<.004MM |
| | STORET PARM CODE | 80194 -- TOT SED NAT WTR %<.008MM |
| | STORET PARM CODE | 80195 -- TOT SED NAT WTR %<.016MM |
| | STORET PARM CODE | 80196 -- TOT SED NAT WTR %<.031MM |
| | STORET PARM CODE | 80197 -- TOT SED NAT WTR %<.062MM |
| | STORET PARM CODE | 80198 -- TOT SED NAT WTR %<.125MM |
| | STORET PARM CODE | 80199 -- TOT SED NAT WTR %<.250MM |
| | STORET PARM CODE | 80200 -- TOT SED NAT WTR %<.500MM |
| | STORET PARM CODE | 80201 -- TOT SED NAT WTR %<1.00MM |
| | STORET PARM CODE | 80203 -- TOT SED SIEVE %<.062MM |
| | STORET PARM CODE | 80204 -- TOT SED SIEVE %<.125MM |

Reference Table Physical Characteristics

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| Name | Alias Type | Alias Name |
|------|------------------|-------------------------------------|
| | STORET PARM CODE | 80205 -- TOT SED SIEVE %<.250MM |
| | STORET PARM CODE | 80206 -- TOT SED SIEVE %<.500MM |
| | STORET PARM CODE | 80207 -- TOT SED SIEVE %<1.00MM |
| | STORET PARM CODE | 80208 -- TOT SED SIEVE %<2.00MM |
| | STORET PARM CODE | 80209 -- TOT SED SIEVE %<4.00MM |
| | STORET PARM CODE | 80210 -- TOT SED SIEVE %<8.00MM |
| | STORET PARM CODE | 80211 -- TOT SED SIEVE %<16.0MM |
| | STORET PARM CODE | 80212 -- TOT SED SIEVE %<32.0MM |
| | STORET PARM CODE | 80213 -- BED MATL PARTSIZE %<4.76MM |
| | STORET PARM CODE | 80214 -- BED MATL PARTSIZE %<9.52MM |
| | STORET PARM CODE | 80215 -- BED MATL PARTSIZE %<12.7MM |
| | STORET PARM CODE | 80216 -- BED MATL PARTSIZE %<19.1MM |
| | STORET PARM CODE | 80217 -- BED MATL PARTSIZE %<25.4MM |
| | STORET PARM CODE | 80224 -- BED MATL PARTSIZE %<.074MM |
| | STORET PARM CODE | 80226 -- BEDLOAD PARTSIZE %<.062MM |
| | STORET PARM CODE | 80227 -- BEDLOAD PARTSIZE %<.125MM |
| | STORET PARM CODE | 80228 -- BEDLOAD PARTSIZE %<.250MM |
| | STORET PARM CODE | 80229 -- BEDLOAD PARTSIZE %<.500MM |
| | STORET PARM CODE | 80230 -- BEDLOAD PARTSIZE %<1.00MM |
| | STORET PARM CODE | 80231 -- BEDLOAD PARTSIZE %<2.00MM |
| | STORET PARM CODE | 80232 -- BEDLOAD PARTSIZE %<4.00MM |
| | STORET PARM CODE | 80233 -- BEDLOAD PARTSIZE %<8.00MM |
| | STORET PARM CODE | 80234 -- BEDLOAD PARTSIZE %<16.0MM |
| | STORET PARM CODE | 80235 -- BEDLOAD PARTSIZE %<32.0MM |
| | STORET PARM CODE | 80236 -- BEDLOAD PARTSIZE %<64.0MM |
| | STORET PARM CODE | 80237 -- BEDLOAD PARTSIZE %<76.0MM |
| | STORET PARM CODE | 80238 -- BEDLOAD PARTSIZE %<128 MM |
| | STORET PARM CODE | 80240 -- BED MATL PARTSIZE %<2.38MM |
| | STORET PARM CODE | 80241 -- BED MATL PARTSIZE %<.595MM |
| | STORET PARM CODE | 80242 -- BED MATL PARTSIZE %<.297MM |

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| Name | Alias Type | Alias Name |
|------|------------------|-------------------------------------|
| | STORET PARM CODE | 80243 -- BED MATL PARTSIZE %<.149MM |
| | STORET PARM CODE | 80247 -- SEDIMENT PARTSIZE M GRAVEL |
| | STORET PARM CODE | 80248 -- SEDIMENT PARTSIZE F GRAVEL |
| | STORET PARM CODE | 80250 -- SEDIMENT PARTSIZE SILTCLAY |
| | STORET PARM CODE | 80251 -- SEDIMENT PARTSIZE VFNESAND |
| | STORET PARM CODE | 80252 -- SEDIMENT PARTSIZE FINESAND |
| | STORET PARM CODE | 80253 -- SEDIMENT PARTSIZE MED SAND |
| | STORET PARM CODE | 80254 -- SEDIMENT PARTSIZE CRS SAND |
| | STORET PARM CODE | 80255 -- SEDIMENT PARTSIZE VCRSSAND |
| | STORET PARM CODE | 80256 -- SEDIMENT PARTSIZE GRAVEL |
| | STORET PARM CODE | 80282 -- BED.MAT. FALL DIA %<.016MM |
| | STORET PARM CODE | 80283 -- BED.MAT. FALL DIA %<.031MM |
| | STORET PARM CODE | 80285 -- BED.MAT. FALL DIA %<.175MM |
| | STORET PARM CODE | 80286 -- BED.MAT. FALL DIA %<.350MM |
| | STORET PARM CODE | 80293 -- BED.MAT. FALL DIA %<.008MM |
| | STORET PARM CODE | 80294 -- BED.MAT. FALL DIA %<.002MM |
| | STORET PARM CODE | 80322 -- SUS PART >125U MG/L |
| | STORET PARM CODE | 80325 -- SUS PART > 63U MG/L |
| | STORET PARM CODE | 80326 -- SUS PART >2000 UM MG/L |
| | STORET PARM CODE | 80327 -- TOT SED SIEVE % LT6.35MM |
| | STORET PARM CODE | 80328 -- SUS PART GT500UM MG/L |
| | STORET PARM CODE | 81756 -- TOT SED PARTSIZ% <.0005MM |
| | STORET PARM CODE | 81978 -- SED PART SIZE %> 6.00PHI |
| | STORET PARM CODE | 81984 -- SED PART SIZE %> 8.00PHI |
| | STORET PARM CODE | 81987 -- SED PART SIZE %> 9.00PHI |
| | STORET PARM CODE | 81994 -- SED PART SIZE %> 11.30PHI |
| | STORET PARM CODE | 82002 -- SED PART SIZE %> 14.00PHI |
| | STORET PARM CODE | 82007 -- % SAND IN SED DRY WGT |
| | STORET PARM CODE | 82008 -- SEDIMENT PARTSIZE SILT |
| | STORET PARM CODE | 82009 -- SEDIMENT PARTSIZE CLAY |

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| Name | Alias Type | Alias Name |
|--|-----------------------------|---|
| Particle size (size/range in result "Particle Size Basis") | | |
| Phytoplankton biovolume | STORET PARM CODE | 71259 -- BIOVOLM PHYTOPLK MM3/M3 |
| Phytoplankton, settling volume | EPA ID (SUBSTANCE REGISTRY) | E52457223 |
| | EPA REFERENCE ID (EPA ONLY) | 52457223 |
| | EPA SYSTEMATIC NAME | Phytoplankton, settling volume |
| Population diversity, fish, # of species | EPA ID (SUBSTANCE REGISTRY) | E52457173 |
| | EPA REFERENCE ID (EPA ONLY) | 52457173 |
| | EPA SYSTEMATIC NAME | Population diversity, fish, number of species |
| | STORET PARM CODE | 81615 |
| Population diversity, macroinvertebrates, # of species | EPA ID (SUBSTANCE REGISTRY) | E52457181 |
| | EPA REFERENCE ID (EPA ONLY) | 52457181 |
| | EPA SYSTEMATIC NAME | Population diversity, macroinvertebrates, number of species |
| | STORET PARM CODE | 82250 |
| Population diversity, phytoplankton, # of species | EPA ID (SUBSTANCE REGISTRY) | E52457207 |
| | EPA REFERENCE ID (EPA ONLY) | 52457207 |
| | EPA SYSTEMATIC NAME | Population diversity, phytoplankton, number of species |
| Population diversity, zooplankton, # of species | EPA ID (SUBSTANCE REGISTRY) | E52457199 |
| | EPA REFERENCE ID (EPA ONLY) | 52457199 |
| | EPA SYSTEMATIC NAME | Population diversity, zooplankton, number of species |
| Power plant load | EPA ID (SUBSTANCE REGISTRY) | E1644426 |
| | EPA REFERENCE ID (EPA ONLY) | 1644426 |
| | EPA SYSTEMATIC NAME | Power plant load |
| | STORET PARM CODE | 74008 -- POWER PLT LOAD MEGAWATT |

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| Name | Alias Type | Alias Name |
|------------------------|---------------------------------|----------------------------------|
| Power plant production | EPA ID (SUBSTANCE REGISTRY) | E1644442 |
| | EPA REFERENCE ID (EPA ONLY) | 1644442 |
| | EPA SYSTEMATIC NAME | Power plant production |
| | STORET PARM CODE | 00168 -- TOTAL PRODUCT MEGAWATT |
| Precipitation | EPA ID (SUBSTANCE REGISTRY) | E1644459 |
| | EPA REFERENCE ID (EPA ONLY) | 1644459 |
| | EPA SYSTEMATIC NAME | Precipitation |
| | STORET PARM CODE | 00045 -- PRECIP TOT DAY IN |
| | STORET PARM CODE | 00046 -- PRECIP TOTAL IN/WK |
| | STORET PARM CODE | 00124 -- PRECIP INT LOC6 IN/HR |
| | STORET PARM CODE | 00125 -- PRECIP INT LOC5 IN/HR |
| | STORET PARM CODE | 00126 -- PRECIP INT LOC4 IN/HR |
| | STORET PARM CODE | 00127 -- PRECIP INT LOC3 IN/HR |
| | STORET PARM CODE | 00128 -- PRECIP INT LOC2 IN/HR |
| | STORET PARM CODE | 00129 -- PRECIP INT LOC1 IN/HR |
| | STORET PARM CODE | 00133 -- ANNUAL PRECIP INCHES |
| | STORET PARM CODE | 00193 -- PRECIP. TOT. PRD INCHES |
| | STORET PARM CODE | 46529 -- RAINFALL INCHES |
| | STORET PARM CODE | 82371 -- RAINFALL 3 DAYS INCHES |
| | STORET PARM CODE | 82381 -- PRECIPIT ATION IN/STORM |
| STORET PARM CODE | 82553 -- RAINFALL 1 DAY INCHES | |
| STORET PARM CODE | 82554 -- RAINFALL 7 DAYS INCHES | |

Precipitation 24hr prior to monitoring event amount

Precipitation 48hr prior to monitoring event amount

Reference Table Physical Characteristics

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| Name | Alias Type | Alias Name |
|--|-----------------------------|--|
| Precipitation Time Since Event | EPA ID (SUBSTANCE REGISTRY) | E1644491 |
| | EPA REFERENCE ID (EPA ONLY) | 1644491 |
| | EPA SYSTEMATIC NAME | Precipitation, time since event |
| | STORET PARM CODE | 72053 -- DAYS SINCE PRECIP |
| Precipitation event duration | EPA ID (SUBSTANCE REGISTRY) | E1644467 |
| | EPA REFERENCE ID (EPA ONLY) | 1644467 |
| | EPA SYSTEMATIC NAME | Precipitation event duration |
| | STORET PARM CODE | 00117 -- PRECIP DURATION MINUTES |
| | STORET PARM CODE | 00135 -- STORM ELAPSED TIME HRS |
| | STORET PARM CODE | 00194 -- PRECIP. ELAPSED TIME MIN |
| Productivity, Photosynthetic Rate, Carbon Production | EPA ID (SUBSTANCE REGISTRY) | E52457157 |
| | EPA REFERENCE ID (EPA ONLY) | 52457157 |
| | EPA SYSTEMATIC NAME | Productivity, photosynthetic rate, carbon production |
| | STORET PARM CODE | 61939 |
| Pump efficiency | EPA ID (SUBSTANCE REGISTRY) | E1644657 |
| | EPA REFERENCE ID (EPA ONLY) | 1644657 |
| | EPA SYSTEMATIC NAME | Pump efficiency |
| | STORET PARM CODE | 72042 -- PUMP EFFICNCY PERCENT |
| Pump pressure head | EPA ID (SUBSTANCE REGISTRY) | E1644673 |
| | EPA REFERENCE ID (EPA ONLY) | 1644673 |
| | EPA SYSTEMATIC NAME | Pump pressure head |
| | STORET PARM CODE | 72044 -- PUMPING HEAD FEET |
| Pumping rate | EPA ID (SUBSTANCE REGISTRY) | E1644681 |
| | EPA REFERENCE ID (EPA ONLY) | 1644681 |
| | EPA SYSTEMATIC NAME | Pumping rate |
| | STORET PARM CODE | 72037 -- PUMPING RATE GPM |

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| Name | Alias Type | Alias Name |
|----------------------------------|-----------------------------|---|
| RBP High Water Mark | EPA ID (SUBSTANCE REGISTRY) | E1644863 |
| | EPA REFERENCE ID (EPA ONLY) | 1644863 |
| | EPA SYSTEMATIC NAME | Instream features, high water mark |
| RBP Stream Depth - Pool | EPA ID (SUBSTANCE REGISTRY) | E1645282 |
| | EPA REFERENCE ID (EPA ONLY) | 1645282 |
| | EPA SYSTEMATIC NAME | Stream depth, pool |
| RBP Stream Depth - Riffle | EPA ID (SUBSTANCE REGISTRY) | E1645332 |
| | EPA REFERENCE ID (EPA ONLY) | 1645332 |
| | EPA SYSTEMATIC NAME | Stream depth, riffle |
| RBP Stream Depth - Run | EPA ID (SUBSTANCE REGISTRY) | E1645340 |
| | EPA REFERENCE ID (EPA ONLY) | 1645340 |
| | EPA SYSTEMATIC NAME | Stream depth, run |
| RBP Stream Velocity | EPA ID (SUBSTANCE REGISTRY) | E1645530 |
| | EPA REFERENCE ID (EPA ONLY) | 1645530 |
| | EPA SYSTEMATIC NAME | Stream velocity |
| RBP Stream Width | EPA ID (SUBSTANCE REGISTRY) | E1645241 |
| | EPA REFERENCE ID (EPA ONLY) | 1645241 |
| | EPA SYSTEMATIC NAME | Instream features, est. stream width |
| RBP Substrate - Bedrock | EPA ID (SUBSTANCE REGISTRY) | E1644780 |
| | EPA REFERENCE ID (EPA ONLY) | 1644780 |
| | EPA SYSTEMATIC NAME | Habitat type, bedrock percent |
| RBP Substrate - Boulders >256 mm | EPA ID (SUBSTANCE REGISTRY) | E1644715 |
| | EPA REFERENCE ID (EPA ONLY) | 1644715 |
| | EPA SYSTEMATIC NAME | Substrate, boulders greater than 256 mm |

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| Name | Alias Type | Alias Name |
|--|-----------------------------|--|
| RBP Substrate - Cobbles 64-256 mm | EPA ID (SUBSTANCE REGISTRY) | E1644913 |
| | EPA REFERENCE ID (EPA ONLY) | 1644913 |
| | EPA SYSTEMATIC NAME | Substrate, inorganic, cobble, 64-256 mm |
| RBP Substrate - Detritus - Coarse Particulate | EPA ID (SUBSTANCE REGISTRY) | E1646041 |
| | EPA REFERENCE ID (EPA ONLY) | 1646041 |
| | EPA SYSTEMATIC NAME | Substrate, detritus, coarse particulate |
| RBP Substrate - Gravel 2-64 mm | EPA ID (SUBSTANCE REGISTRY) | E1645050 |
| | EPA REFERENCE ID (EPA ONLY) | 1645050 |
| | EPA SYSTEMATIC NAME | Substrate, inorganic, gravel, 2-64 mm |
| RBP Substrate - Marl - Gray, Shell Fragments | EPA ID (SUBSTANCE REGISTRY) | E1645878 |
| | EPA REFERENCE ID (EPA ONLY) | 1645878 |
| | EPA SYSTEMATIC NAME | Substrate, organic, marl, grey shell fragments |
| RBP Substrate - Muck/Mud - Very Fine Particles | EPA ID (SUBSTANCE REGISTRY) | E1645886 |
| | EPA REFERENCE ID (EPA ONLY) | 1645886 |
| | EPA SYSTEMATIC NAME | Substrate, muck/mud, very fine particles |
| RBP Substrate - Sand 0.06-2.0 mm | EPA ID (SUBSTANCE REGISTRY) | E1644962 |
| | EPA REFERENCE ID (EPA ONLY) | 1644962 |
| | EPA SYSTEMATIC NAME | Substrate, inorganic, sand, 0.06-2.0 mm |
| RBP Substrate - Silt 0.004-0.06 mm | EPA ID (SUBSTANCE REGISTRY) | E1645134 |
| | EPA REFERENCE ID (EPA ONLY) | 1645134 |
| | EPA SYSTEMATIC NAME | Substrate, Inorganic, Silt, 0.004-0.06 mm |
| RBP2, Aquatic Vegetation, Portion of Reach with AV (%) | EPA ID (SUBSTANCE REGISTRY) | E1645910 |
| | EPA REFERENCE ID (EPA ONLY) | 1645910 |
| | EPA SYSTEMATIC NAME | Aquatic vegetation, percentage of reach |

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| Name | Alias Type | Alias Name |
|--|-----------------------------|---|
| RBP2, Habitat Type, Bedrock (%) | | |
| RBP2, Habitat Type, Canopy (%) | EPA ID (SUBSTANCE REGISTRY) | E1644772 |
| | EPA REFERENCE ID (EPA ONLY) | 1644772 |
| | EPA SYSTEMATIC NAME | Habitat type, canopy percent |
| RBP2, Habitat Type, Gravel-Cobble (%) | EPA ID (SUBSTANCE REGISTRY) | E1645068 |
| | EPA REFERENCE ID (EPA ONLY) | 1645068 |
| | EPA SYSTEMATIC NAME | Habitat type, gravel-cobble, percent |
| RBP2, Habitat Type, Large Woody Debris (%) | EPA ID (SUBSTANCE REGISTRY) | E1641869 |
| | EPA REFERENCE ID (EPA ONLY) | 1641869 |
| | EPA SYSTEMATIC NAME | Habitat type, large woody debris (percent) |
| RBP2, Habitat Type, Plants, Roots (%) | EPA ID (SUBSTANCE REGISTRY) | E1646207 |
| | EPA REFERENCE ID (EPA ONLY) | 1646207 |
| | EPA SYSTEMATIC NAME | Habitat type, plants, roots, percent |
| RBP2, Habitat Type, Pools (%) | EPA ID (SUBSTANCE REGISTRY) | E1645290 |
| | EPA REFERENCE ID (EPA ONLY) | 1645290 |
| | EPA SYSTEMATIC NAME | Habitat type, pools, percent |
| RBP2, Habitat Type, Riffle (%) | EPA ID (SUBSTANCE REGISTRY) | E1645944 |
| | EPA REFERENCE ID (EPA ONLY) | 1645944 |
| | EPA SYSTEMATIC NAME | Instream features, morphology, riffles, percent |
| RBP2, Habitat Type, Run (%) | EPA ID (SUBSTANCE REGISTRY) | E1646215 |
| | EPA REFERENCE ID (EPA ONLY) | 1646215 |
| | EPA SYSTEMATIC NAME | Habitat type, run, percent |

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| Name | Alias Type | Alias Name |
|---|-----------------------------|--|
| RBP2, Habitat Type, Sand (%) | EPA ID (SUBSTANCE REGISTRY) | E1644970 |
| | EPA REFERENCE ID (EPA ONLY) | 1644970 |
| | EPA SYSTEMATIC NAME | Habitat type, sand, percent |
| RBP2, Habitat Type, Sand-Silt-Mud-Muck (%) | EPA ID (SUBSTANCE REGISTRY) | E1644988 |
| | EPA REFERENCE ID (EPA ONLY) | 1644988 |
| | EPA SYSTEMATIC NAME | Habitat type, sand-silt-mud-muck, percent |
| RBP2, Habitat Type, Small Woody Debris (%) | EPA ID (SUBSTANCE REGISTRY) | E1641877 |
| | EPA REFERENCE ID (EPA ONLY) | 1641877 |
| | EPA SYSTEMATIC NAME | Habitat type, small woody debris (percent) |
| RBP2, Habitat Type, Snags (%) | EPA ID (SUBSTANCE REGISTRY) | E1646223 |
| | EPA REFERENCE ID (EPA ONLY) | 1646223 |
| | EPA SYSTEMATIC NAME | Habitat type, snags, percent |
| RBP2, Habitat Type, Submerged Macrophytes (%) | EPA ID (SUBSTANCE REGISTRY) | E1646231 |
| | EPA REFERENCE ID (EPA ONLY) | 1646231 |
| | EPA SYSTEMATIC NAME | Habitat type, submerged macrophytes, percent |
| RBP2, Habitat Type, Vegetated Banks (%) | EPA ID (SUBSTANCE REGISTRY) | E1646249 |
| | EPA REFERENCE ID (EPA ONLY) | 1646249 |
| | EPA SYSTEMATIC NAME | Habitat type, vegetated banks, percent |
| RBP2, High G, Habitat Assessment Total Score | EPA ID (SUBSTANCE REGISTRY) | E1646256 |
| | EPA REFERENCE ID (EPA ONLY) | 1646256 |
| | EPA SYSTEMATIC NAME | High gradient, habitat assessment, total score |
| RBP2, Instream Features, Est. Reach Length | EPA ID (SUBSTANCE REGISTRY) | E1646280 |
| | EPA REFERENCE ID (EPA ONLY) | 1646280 |
| | EPA SYSTEMATIC NAME | Instream features, estimated reach length |

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| Name | Alias Type | Alias Name |
|---|-----------------------------|--|
| RBP2, Instream Features, Est. Stream Depth | EPA ID (SUBSTANCE REGISTRY) | E1645357 |
| | EPA REFERENCE ID (EPA ONLY) | 1645357 |
| | EPA SYSTEMATIC NAME | Instream features, est. stream depth |
| RBP2, Instream Features, Est. Stream Width | | |
| RBP2, Instream Features, High Water Mark | | |
| RBP2, Instream Features, Morphology, Pools (%) | EPA ID (SUBSTANCE REGISTRY) | E1645308 |
| | EPA REFERENCE ID (EPA ONLY) | 1645308 |
| | EPA SYSTEMATIC NAME | Instream features, morphology, pools, percent |
| RBP2, Instream Features, Morphology, Riffles (%) | | |
| RBP2, Instream Features, Morphology, Run (%) | EPA ID (SUBSTANCE REGISTRY) | E1646298 |
| | EPA REFERENCE ID (EPA ONLY) | 1646298 |
| | EPA SYSTEMATIC NAME | Instream features, morphology, run, percent |
| RBP2, Instream Features, Sampling Reach Area | EPA ID (SUBSTANCE REGISTRY) | E1646306 |
| | EPA REFERENCE ID (EPA ONLY) | 1646306 |
| | EPA SYSTEMATIC NAME | Instream features, sampling reach area |
| RBP2, Instream Features, Surface Velocity (at thalweg) | EPA ID (SUBSTANCE REGISTRY) | E1645548 |
| | EPA REFERENCE ID (EPA ONLY) | 1645548 |
| | EPA SYSTEMATIC NAME | Instream features, surface velocity at thalweg |
| RBP2, Instream Features, Total Reach Area | EPA ID (SUBSTANCE REGISTRY) | E1646314 |
| | EPA REFERENCE ID (EPA ONLY) | 1646314 |
| | EPA SYSTEMATIC NAME | Instream features, total reach area |
| RBP2, Large Woody Debris, Density of LWD (LWD/reach area) | EPA ID (SUBSTANCE REGISTRY) | E1641885 |
| | EPA REFERENCE ID (EPA ONLY) | 1641885 |
| | EPA SYSTEMATIC NAME | Large woody debris, density/reach area |

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| Name | Alias Type | Alias Name |
|--|-----------------------------|--|
| RBP2, Large Woody Debris, LWD (m2) | EPA ID (SUBSTANCE REGISTRY) | E1641893 |
| | EPA REFERENCE ID (EPA ONLY) | 1641893 |
| | EPA SYSTEMATIC NAME | Large woody debris |
| RBP2, Low G, Habitat Assessment Total Score | EPA ID (SUBSTANCE REGISTRY) | E1648302 |
| | EPA REFERENCE ID (EPA ONLY) | 1648302 |
| | EPA SYSTEMATIC NAME | Low gradient, habitat assessment total score |
| RBP2, Stream Character, Catchment Area | EPA ID (SUBSTANCE REGISTRY) | E1646322 |
| | EPA REFERENCE ID (EPA ONLY) | 1646322 |
| | EPA SYSTEMATIC NAME | Stream character, catchment area |
| RBP2, Substrate, Inorganic, Bedrock | | |
| RBP2, Substrate, Inorganic, Boulder, >256 mm | | |
| RBP2, Substrate, Inorganic, Clay, <0.004 mm | EPA ID (SUBSTANCE REGISTRY) | E1645233 |
| | EPA REFERENCE ID (EPA ONLY) | 1645233 |
| | EPA SYSTEMATIC NAME | Substrate, inorganic, clay, <0.004 mm |
| RBP2, Substrate, Inorganic, Cobble, 64-256 mm | | |
| RBP2, Substrate, Inorganic, Gravel, 2-64 mm | | |
| RBP2, Substrate, Inorganic, Sand, 0.06-2 mm | | |
| RBP2, Substrate, Inorganic, Silt, 0.004-0.06 mm | | |
| RBP2, Substrate, Organic, Detritus, Sticks, Wood, etc.(CPOM) | EPA ID (SUBSTANCE REGISTRY) | E1646058 |
| | EPA REFERENCE ID (EPA ONLY) | 1646058 |
| | EPA SYSTEMATIC NAME | Detritus, coarse particle organic matter |
| RBP2, Substrate, Organic, Marl, Grey Shell Fragments | | |

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| Name | Alias Type | Alias Name |
|---|-----------------------------|--|
| RBP2, Substrate, Organic, Muck-Mud, Black-Fine (FPOM) | EPA ID (SUBSTANCE REGISTRY) | E1645894 |
| | EPA REFERENCE ID (EPA ONLY) | 1645894 |
| | EPA SYSTEMATIC NAME | Substrate, organic, muck-mud, black-fine |
| Relative humidity | EPA ID (SUBSTANCE REGISTRY) | E1646363 |
| | EPA REFERENCE ID (EPA ONLY) | 1646363 |
| | EPA SYSTEMATIC NAME | Relative humidity |
| | STORET PARM CODE | 00052 -- RELATIVE HUMIDITY PERCENT |
| Reoxygenation constant | EPA ID (SUBSTANCE REGISTRY) | E1642701 |
| | EPA REFERENCE ID (EPA ONLY) | 1642701 |
| | EPA SYSTEMATIC NAME | Reoxygenation constant |
| | STORET PARM CODE | 00330 -- REOXY K2 BASE E PER DAY |
| Reservoir volume | EPA ID (SUBSTANCE REGISTRY) | E1646389 |
| | EPA REFERENCE ID (EPA ONLY) | 1646389 |
| | EPA SYSTEMATIC NAME | Reservoir volume |
| | STORET PARM CODE | 00054 -- RESVOIR STORAGE AC-FT |
| Residence / Flushing Time, Waterbody | | |
| Respiration | EPA ID (SUBSTANCE REGISTRY) | E1646397 |
| | EPA REFERENCE ID (EPA ONLY) | 1646397 |
| | EPA SYSTEMATIC NAME | Respiration |
| | STORET PARM CODE | 70967 -- RESPIRAT MGO2/ CU M/DAY |
| | STORET PARM CODE | 70968 -- RESPIRAT MGO2/ SQ M/DAY |
| Respiration, planktonic | STORET PARM CODE | 70994 -- RESPIRAT AREA-PLA G/M2/DAY |
| | STORET PARM CODE | 70995 -- RESPIRAT VOL-PLAN G/M3/DAY |

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| Name | Alias Type | Alias Name |
|----------------------------|------------------------------------|-------------------------------------|
| River/Stream channel slope | EPA ID (SUBSTANCE REGISTRY) | E52457215 |
| | EPA REFERENCE ID (EPA ONLY) | 52457215 |
| | EPA SYSTEMATIC NAME | River/stream channel slope |
| | STORET PARM CODE | 72052 |
| Solar irradiation, global | EPA ID (SUBSTANCE REGISTRY) | E1646678 |
| | EPA REFERENCE ID (EPA ONLY) | 1646678 |
| | EPA SYSTEMATIC NAME | Solar irradiation, global |
| | STORET PARM CODE | 70972 -- SUNLIGHT GLOBAL KJ/M2/DA |
| Solar irradiation, local | EPA ID (SUBSTANCE REGISTRY) | E1646686 |
| | EPA REFERENCE ID (EPA ONLY) | 1646686 |
| | EPA SYSTEMATIC NAME | Solar irradiation, local |
| | STORET PARM CODE | 00030 -- INCDT LT SURF C/SQCM/D |
| | STORET PARM CODE | 00200 -- LIGHT, INCINTEN UE/M2/SC |
| | STORET PARM CODE | 00201 -- LIGHT,IN C.DAILY UE/M2 |
| | STORET PARM CODE | 00202 -- PAR-DPTH Q/S/CM2 *10**15 |
| | STORET PARM CODE | 00203 -- PAR-SURF Q/S/CM2 *10**15 |
| | STORET PARM CODE | 46515 -- SOLAR-DN INTENSTY LANGLEYS |
| | STORET PARM CODE | 46516 -- SOLAR NET RAD. LANGLEYS |
| STORET PARM CODE | 70970 -- SOL RAD 1/2DAYX2 LANGLEYS | |
| Species Rank | | |
| Species Relative Density | | |
| Specific drawdown capacity | EPA ID (SUBSTANCE REGISTRY) | E1646702 |
| | EPA REFERENCE ID (EPA ONLY) | 1646702 |
| | EPA SYSTEMATIC NAME | Specific drawdown capacity |
| | STORET PARM CODE | 72041 -- SPECIFIC CAPACITY GPM/FT |

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| Name | Alias Type | Alias Name |
|------------------------------|-----------------------------|------------------------------------|
| Specific gravity | EPA ID (SUBSTANCE REGISTRY) | E1646710 |
| | EPA REFERENCE ID (EPA ONLY) | 1646710 |
| | EPA SYSTEMATIC NAME | Specific gravity |
| | STORET PARM CODE | 72013 -- SPECIFIC GRAVITY |
| | STORET PARM CODE | 80110 -- SPECIFIC GRAVITY |
| Stream stage height | EPA ID (SUBSTANCE REGISTRY) | E1645514 |
| | EPA REFERENCE ID (EPA ONLY) | 1645514 |
| | EPA SYSTEMATIC NAME | Stream stage |
| | STORET PARM CODE | 00065 -- STREAM STAGE FEET |
| | STORET PARM CODE | 00072 -- STREAM STAGE METERS |
| | STORET PARM CODE | 50046 -- CREST ST AGE GAGE HT FT |
| Stream width measure | STORET PARM CODE | 00004 -- STREAM WIDTH FEET |
| | STORET PARM CODE | 83509 -- STREAM WIDTH METER |
| Substrate - bedrock | STORET PARM CODE | 34777 -- SUBSTRAT BEDROCK STREAM % |
| | STORET PARM CODE | 83516 -- SUBSTRAT BEDROCK SOLID % |
| Substrate - boulders | EPA ID (SUBSTANCE REGISTRY) | E1644731 |
| | EPA REFERENCE ID (EPA ONLY) | 1644731 |
| | EPA SYSTEMATIC NAME | Substrate, boulders |
| Substrate - boulders, large | EPA ID (SUBSTANCE REGISTRY) | E1644749 |
| | EPA REFERENCE ID (EPA ONLY) | 1644749 |
| | EPA SYSTEMATIC NAME | Substrate, boulders, large |
| | STORET PARM CODE | 83541 -- SUBSTRAT BOULDER % |
| Substrate - boulders, medium | EPA ID (SUBSTANCE REGISTRY) | E1644756 |
| | EPA REFERENCE ID (EPA ONLY) | 1644756 |
| | EPA SYSTEMATIC NAME | Substrate, boulders, medium |
| | STORET PARM CODE | 83519 -- SUBSTRAT BOULDER MEDIUM % |

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| Name | Alias Type | Alias Name |
|--|-----------------------------|---|
| Substrate - boulders, small | EPA ID (SUBSTANCE REGISTRY) | E1644764 |
| | EPA REFERENCE ID (EPA ONLY) | 1644764 |
| | EPA SYSTEMATIC NAME | Substrate, boulders, small |
| | STORET PARM CODE | 83520 -- SUBSTRAT BOULDER SMALL % |
| Substrate - clay | | |
| Substrate - clay, medium | EPA ID (SUBSTANCE REGISTRY) | E1645209 |
| | EPA REFERENCE ID (EPA ONLY) | 1645209 |
| | EPA SYSTEMATIC NAME | Substrate, clay, medium |
| | STORET PARM CODE | 83538 -- SUBSTRAT CLAY MEDIUM % |
| Substrate - clay/fine partic. org. matt. | EPA ID (SUBSTANCE REGISTRY) | E1645217 |
| | EPA REFERENCE ID (EPA ONLY) | 1645217 |
| | EPA SYSTEMATIC NAME | Substrate, clay/fine partic. org. matt. |
| | STORET PARM CODE | 83547 -- SUBSTRAT CLAY/ FPOM % |
| Substrate - claypan soil | EPA ID (SUBSTANCE REGISTRY) | E1645225 |
| | EPA REFERENCE ID (EPA ONLY) | 1645225 |
| | EPA SYSTEMATIC NAME | Substrate, claypan soil |
| | STORET PARM CODE | 34778 -- SUBSTRAT CLAYPAN SOIL % |
| Substrate - cobbles | EPA ID (SUBSTANCE REGISTRY) | E1644921 |
| | EPA REFERENCE ID (EPA ONLY) | 1644921 |
| | EPA SYSTEMATIC NAME | Substrate, cobbles |
| | STORET PARM CODE | 83542 -- SUBSTRAT COBBLE % |
| Substrate - cobbles, large | EPA ID (SUBSTANCE REGISTRY) | E1644939 |
| | EPA REFERENCE ID (EPA ONLY) | 1644939 |
| | EPA SYSTEMATIC NAME | Substrate, cobbles, large |
| | STORET PARM CODE | 83521 -- SUBSTRAT COBBLE LARGE % |

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| Name | Alias Type | Alias Name |
|---|-----------------------------|-------------------------------------|
| Substrate - cobbles, medium | EPA ID (SUBSTANCE REGISTRY) | E1644947 |
| | EPA REFERENCE ID (EPA ONLY) | 1644947 |
| | EPA SYSTEMATIC NAME | Substrate, cobbles, medium |
| Substrate - cobbles, small | EPA ID (SUBSTANCE REGISTRY) | E1644954 |
| | EPA REFERENCE ID (EPA ONLY) | 1644954 |
| | EPA SYSTEMATIC NAME | Substrate, cobbles, small |
| | STORET PARM CODE | 83522 -- SUBSTRAT COBBLE SMALL % |
| Substrate - detritus - coarse particulate | STORET PARM CODE | 83548 -- SUBSTRAT DETRITUS /CPOM % |
| Substrate - grain size | | |
| Substrate - gravel | EPA ID (SUBSTANCE REGISTRY) | E1645076 |
| | EPA REFERENCE ID (EPA ONLY) | 1645076 |
| | EPA SYSTEMATIC NAME | Substrate, gravel |
| | STORET PARM CODE | 83544 -- SUBSTRAT GRAVEL % |
| Substrate - gravel, coarse | EPA ID (SUBSTANCE REGISTRY) | E1645084 |
| | EPA REFERENCE ID (EPA ONLY) | 1645084 |
| | EPA SYSTEMATIC NAME | Substrate, gravel, coarse |
| | STORET PARM CODE | 83543 -- SUBSTRAT CRS GRVL PEBBLE % |
| Substrate - gravel, fine | EPA ID (SUBSTANCE REGISTRY) | E1645092 |
| | EPA REFERENCE ID (EPA ONLY) | 1645092 |
| | EPA SYSTEMATIC NAME | Substrate, gravel, fine |
| | STORET PARM CODE | 34779 -- SUBSTRAT GRVL FINE % |
| | STORET PARM CODE | 83526 -- SUBSTRAT GRAVEL FINE % |

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| Name | Alias Type | Alias Name |
|---------------------------------|-----------------------------|-------------------------------------|
| Substrate - gravel, medium | EPA ID (SUBSTANCE REGISTRY) | E1645100 |
| | EPA REFERENCE ID (EPA ONLY) | 1645100 |
| | EPA SYSTEMATIC NAME | Substrate, gravel, medium |
| | STORET PARM CODE | 83525 -- SUBSTRAT GRAVEL MEDIUM % |
| Substrate - gravel, very coarse | EPA ID (SUBSTANCE REGISTRY) | E1645118 |
| | EPA REFERENCE ID (EPA ONLY) | 1645118 |
| | EPA SYSTEMATIC NAME | Substrate, gravel, very coarse |
| | STORET PARM CODE | 83523 -- SUBSTRAT CRS GRVL VRY CRS% |
| Substrate - gravel, very fine | EPA ID (SUBSTANCE REGISTRY) | E1645126 |
| | EPA REFERENCE ID (EPA ONLY) | 1645126 |
| | EPA SYSTEMATIC NAME | Substrate, gravel, very fine |
| Substrate - miscellaneous other | EPA ID (SUBSTANCE REGISTRY) | E1646801 |
| | EPA REFERENCE ID (EPA ONLY) | 1646801 |
| | EPA SYSTEMATIC NAME | Substrate, miscellaneous other |
| | STORET PARM CODE | 34788 -- SUBSTRAT INSTREAM OTHER % |
| Substrate - sand | EPA ID (SUBSTANCE REGISTRY) | E1644996 |
| | EPA REFERENCE ID (EPA ONLY) | 1644996 |
| | EPA SYSTEMATIC NAME | Substrate, sand |
| | STORET PARM CODE | 83545 -- SUBSTRAT SAND % |
| Substrate - sand, coarse | EPA ID (SUBSTANCE REGISTRY) | E1645001 |
| | EPA REFERENCE ID (EPA ONLY) | 1645001 |
| | EPA SYSTEMATIC NAME | Substrate, sand, coarse |
| Substrate - sand, fine | EPA ID (SUBSTANCE REGISTRY) | E1645019 |
| | EPA REFERENCE ID (EPA ONLY) | 1645019 |
| | EPA SYSTEMATIC NAME | Substrate, sand, fine |
| | STORET PARM CODE | 83531 -- SUBSTRAT SAND FINE % |

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| Name | Alias Type | Alias Name |
|--------------------------------|-----------------------------|-------------------------------------|
| Substrate - sand, medium | EPA ID (SUBSTANCE REGISTRY) | E1645027 |
| | EPA REFERENCE ID (EPA ONLY) | 1645027 |
| | EPA SYSTEMATIC NAME | Substrate, sand, medium |
| | STORET PARM CODE | 83530 -- SUBSTRAT SAND MEDIUM % |
| Substrate - sand, very coarse | EPA ID (SUBSTANCE REGISTRY) | E1645035 |
| | EPA REFERENCE ID (EPA ONLY) | 1645035 |
| | EPA SYSTEMATIC NAME | Substrate, sand, very coarse |
| | STORET PARM CODE | 83528 -- SUBSTRAT SAND VRY COARSE % |
| Substrate - sand, very fine | EPA ID (SUBSTANCE REGISTRY) | E1645043 |
| | EPA REFERENCE ID (EPA ONLY) | 1645043 |
| | EPA SYSTEMATIC NAME | Substrate, sand, very fine |
| Substrate - sediment thickness | | |
| Substrate - silt | EPA ID (SUBSTANCE REGISTRY) | E1645142 |
| | EPA REFERENCE ID (EPA ONLY) | 1645142 |
| | EPA SYSTEMATIC NAME | Substrate, silt |
| | STORET PARM CODE | 83546 -- SUBSTRAT SILT % |
| Substrate - silt, coarse | EPA ID (SUBSTANCE REGISTRY) | E1645159 |
| | EPA REFERENCE ID (EPA ONLY) | 1645159 |
| | EPA SYSTEMATIC NAME | Substrate, silt, coarse |
| | STORET PARM CODE | 83533 -- SUBSTRAT SILT COARSE % |
| Substrate - silt, fine | EPA ID (SUBSTANCE REGISTRY) | E1645167 |
| | EPA REFERENCE ID (EPA ONLY) | 1645167 |
| | EPA SYSTEMATIC NAME | Substrate, silt, fine |
| | STORET PARM CODE | 83535 -- SUBSTRAT SILT FINE % |

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| Name | Alias Type | Alias Name |
|--|-----------------------------|-------------------------------------|
| Substrate - silt, medium | EPA ID (SUBSTANCE REGISTRY) | E1645175 |
| | EPA REFERENCE ID (EPA ONLY) | 1645175 |
| | EPA SYSTEMATIC NAME | Substrate, silt, medium |
| | STORET PARM CODE | 83534 -- SUBSTRAT SILT MEDIUM % |
| Substrate - silt, very fine | EPA ID (SUBSTANCE REGISTRY) | E1645183 |
| | EPA REFERENCE ID (EPA ONLY) | 1645183 |
| | EPA SYSTEMATIC NAME | Substrate, silt, very fine |
| Substrate - silt/clay mix | EPA ID (SUBSTANCE REGISTRY) | E1645191 |
| | EPA REFERENCE ID (EPA ONLY) | 1645191 |
| | EPA SYSTEMATIC NAME | Substrate, silt/clay mix |
| Substrate - submerged logs | EPA ID (SUBSTANCE REGISTRY) | E1646819 |
| | EPA REFERENCE ID (EPA ONLY) | 1646819 |
| | EPA SYSTEMATIC NAME | Substrate - submerged logs |
| | STORET PARM CODE | 34787 -- SUBSTRAT SUBMERGE LOGS % |
| Substrate - submerged vegetation cover | EPA ID (SUBSTANCE REGISTRY) | E1645936 |
| | EPA REFERENCE ID (EPA ONLY) | 1645936 |
| | EPA SYSTEMATIC NAME | Substrate, submerged vegetation |
| | STORET PARM CODE | 46355 -- SUBSTRAT INSTREAM SBMGVEG% |
| Surface area | EPA ID (SUBSTANCE REGISTRY) | E1646868 |
| | EPA REFERENCE ID (EPA ONLY) | 1646868 |
| | EPA SYSTEMATIC NAME | Surface area |
| | STORET PARM CODE | 00049 -- SURFACE AREA SQ. MI. |
| | STORET PARM CODE | 00051 -- SURFACE AREA SQ-FT |
| | STORET PARM CODE | 00053 -- SURFACE AREA ACRES |
| | STORET PARM CODE | 70151 -- SURFACE AREA SQ KM |

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| Name | Alias Type | Alias Name |
|---|-----------------------------|--|
| Surface tension | EPA ID (SUBSTANCE REGISTRY) | E1646884 |
| | EPA REFERENCE ID (EPA ONLY) | 1646884 |
| | EPA SYSTEMATIC NAME | Surface tension |
| | STORET PARM CODE | 46600 -- SURFACE TENSION DYNES/CM |
| Suspended Sediment Discharge | | |
| Taxonomic Diversity, Beck Biotic Index | STORET PARM CODE | 61450 -- BIOTIC INDEX, BECK - BENTHIC MACROINVERTEBRATES |
| Taxonomic Diversity, Brillouin Diversity Index | | |
| Taxonomic Diversity, Lloyd, Zar, And Karr Diversity Index | | |
| Taxonomic Diversity, Margalef Diversity Index | | |
| Taxonomic Diversity, Shannon & Wiener Index | STORET PARM CODE | 61453 -- SHANNON WIENER INDEX |
| Taxonomic Diversity, Shannon-Weaver Index | | |
| Taxonomic Diversity, Simpson Diversity Index | | |
| Taxonomic Equitability | STORET PARM CODE | 71500 -- EQUITABILITY INDEX,BENTHIC MACROINVER CODE |
| Taxonomic Evenness | | |
| Taxonomic Redundancy | STORET PARM CODE | 61451 -- REDUNDANCY BENTHIC MACROINVERTEBRATES |
| Taxonomic Richness | | |
| Taxonomic Richness, Ephemeroptera, Plecoptera, Tricoptera | | |

Reference Table Physical Characteristics

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| Name | Alias Type | Alias Name |
|-----------------------|-----------------------------|--------------------------------|
| Temperature, air | EPA ID (SUBSTANCE REGISTRY) | E1645712 |
| | EPA REFERENCE ID (EPA ONLY) | 1645712 |
| | EPA SYSTEMATIC NAME | Temperature, air |
| | STORET PARM CODE | 00020 -- AIR TEMP CENT |
| | STORET PARM CODE | 00021 -- AIR TEMP FAHN |
| Temperature, sample | EPA ID (SUBSTANCE REGISTRY) | E1645704 |
| | EPA REFERENCE ID (EPA ONLY) | 1645704 |
| | EPA SYSTEMATIC NAME | Temperature, sample |
| Temperature, sediment | EPA ID (SUBSTANCE REGISTRY) | E1645837 |
| | EPA REFERENCE ID (EPA ONLY) | 1645837 |
| | EPA SYSTEMATIC NAME | Temperature, sediment |
| Temperature, soil | EPA ID (SUBSTANCE REGISTRY) | E1645845 |
| | EPA REFERENCE ID (EPA ONLY) | 1645845 |
| | EPA SYSTEMATIC NAME | Temperature, soil |
| | STORET PARM CODE | 46520 -- SOILTEMP @5.08CM FAHN |
| | STORET PARM CODE | 81027 -- SOIL TEMP DEG. C T |
| Temperature, tissue | EPA ID (SUBSTANCE REGISTRY) | E1645852 |
| | EPA REFERENCE ID (EPA ONLY) | 1645852 |
| | EPA SYSTEMATIC NAME | Temperature, tissue |
| | STORET PARM CODE | 30205 -- TEMP WOOD DEG F |

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| Name | Alias Type | Alias Name |
|------------------------------|--------------------------------|-------------------------------------|
| Temperature, water | EPA ID (SUBSTANCE REGISTRY) | E1645597 |
| | EPA REFERENCE ID (EPA ONLY) | 1645597 |
| | EPA SYSTEMATIC NAME | Temperature, water |
| | STORET PARM CODE | 00010 -- WATER TEMP CENT |
| | STORET PARM CODE | 00011 -- WATER TEMP FAHN |
| | STORET PARM CODE | 00136 -- SAMPLE TEMP AT LAB DEGC |
| | STORET PARM CODE | 70974 -- TEMP H2O DAILYAVG DEG CENT |
| | STORET PARM CODE | 70975 -- TEMP H2O DAILYMIN DEG CENT |
| | STORET PARM CODE | 70976 -- TEMP H2O DAILYMAX DEG CENT |
| | STORET PARM CODE | 72012 -- SP GR TEMP CELSIUS |
| STORET PARM CODE | 72014 -- RESISTIV TEMP CELSIUS | |
| Temperature, wet bulb | EPA ID (SUBSTANCE REGISTRY) | E1645860 |
| | EPA REFERENCE ID (EPA ONLY) | 1645860 |
| | EPA SYSTEMATIC NAME | Temperature, wet bulb |
| | STORET PARM CODE | 00014 -- WET BULB TEMP DEG CENT |
| Thickness, supernatant layer | EPA ID (SUBSTANCE REGISTRY) | E52457256 |
| | EPA REFERENCE ID (EPA ONLY) | 52457256 |
| | EPA SYSTEMATIC NAME | Thickness, supernatant layer |
| Tide cycle duration | EPA ID (SUBSTANCE REGISTRY) | E1646926 |
| | EPA REFERENCE ID (EPA ONLY) | 1646926 |
| | EPA SYSTEMATIC NAME | Tide cycle duration |
| | STORET PARM CODE | 70204 -- TIDE TIMING HOURS |
| Tide cycle time | EPA ID (SUBSTANCE REGISTRY) | E1646934 |
| | EPA REFERENCE ID (EPA ONLY) | 1646934 |
| | EPA SYSTEMATIC NAME | Tide cycle time |
| | STORET PARM CODE | 70206 -- TIDE TIMING T/T +1 |

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| Name | Alias Type | Alias Name |
|---|-----------------------------|---|
| Tide range | EPA ID (SUBSTANCE REGISTRY) | E1646942 |
| | EPA REFERENCE ID (EPA ONLY) | 1646942 |
| | EPA SYSTEMATIC NAME | Tide range |
| | STORET PARM CODE | 70205 -- TIDE RANGE FEET +10 |
| Tide rate | EPA ID (SUBSTANCE REGISTRY) | E1646959 |
| | EPA REFERENCE ID (EPA ONLY) | 1646959 |
| | EPA SYSTEMATIC NAME | Tide rate |
| | STORET PARM CODE | 70207 -- TIDE RATE FT/HR+2 |
| Tide stage | EPA ID (SUBSTANCE REGISTRY) | E1645522 |
| | EPA REFERENCE ID (EPA ONLY) | 1645522 |
| | EPA SYSTEMATIC NAME | Tide stage |
| | STORET PARM CODE | 49015 -- TIDE STAGE ELEVA FT |
| Toxicity, A. Abdita, Coeffieient Of Variation | EPA ID (SUBSTANCE REGISTRY) | E1647080 |
| | EPA REFERENCE ID (EPA ONLY) | 1647080 |
| | EPA SYSTEMATIC NAME | Toxicity, A. abdita, coefficient of variation |
| Toxicity, A. verrilli, Coefficient of Variation | EPA ID (SUBSTANCE REGISTRY) | E1647098 |
| | EPA REFERENCE ID (EPA ONLY) | 1647098 |
| | EPA SYSTEMATIC NAME | Toxicity, A. verrilli, coefficient of variation |
| Toxicity, E. estuarius, Coefficient of Variation | EPA ID (SUBSTANCE REGISTRY) | E1647114 |
| | EPA REFERENCE ID (EPA ONLY) | 1647114 |
| | EPA SYSTEMATIC NAME | Toxicity, E. estuarius, coefficient of variation |
| Toxicity, L. plumulosus, Coefficient of Variation | EPA ID (SUBSTANCE REGISTRY) | E1647130 |
| | EPA REFERENCE ID (EPA ONLY) | 1647130 |
| | EPA SYSTEMATIC NAME | Toxicity, L. plumulosus, coefficient of variation |

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| Name | Alias Type | Alias Name |
|---|-----------------------------|---|
| Toxicity, R. abronius, Coefficient of Variation | EPA ID (SUBSTANCE REGISTRY) | E1647148 |
| | EPA REFERENCE ID (EPA ONLY) | 1647148 |
| | EPA SYSTEMATIC NAME | Toxicity, R. abronius, coefficient of variation |
| Transparency, tube with disk | EPA ID (SUBSTANCE REGISTRY) | E1646157 |
| | EPA REFERENCE ID (EPA ONLY) | 1646157 |
| | EPA SYSTEMATIC NAME | Water transparency, tube with disk |
| | STORET PARM CODE | 61190 - TRANSPARENCY, MN TUBE |
| Velocity - stream | STORET PARM CODE | 00055 -- STREAM VELOCITY FT/SEC |
| | STORET PARM CODE | 81904 -- STREAM VEL.(PT) (FPS) |
| | STORET PARM CODE | 85663 -- FLOW RATE FT/SEC |
| Water content of snow | EPA ID (SUBSTANCE REGISTRY) | E1647254 |
| | EPA REFERENCE ID (EPA ONLY) | 1647254 |
| | EPA SYSTEMATIC NAME | Water content of snow |
| | STORET PARM CODE | 81026 -- WTR CNT OF SNOW /IN |
| Water level (probe) | | |
| Water level in well during pumping, measured from MSL | EPA ID (SUBSTANCE REGISTRY) | E1647270 |
| | EPA REFERENCE ID (EPA ONLY) | 1647270 |
| | EPA SYSTEMATIC NAME | Water level in well during pumping, MSL |
| | STORET PARM CODE | 72038 -- PUMPING LVL BELW M.P. FT |
| | STORET PARM CODE | 72040 -- OBSERVED DRAWDOWN FEET |
| Water level in well, depth from a reference point | EPA ID (SUBSTANCE REGISTRY) | E52457231 |
| | EPA REFERENCE ID (EPA ONLY) | 52457231 |
| | EPA SYSTEMATIC NAME | Water level in well, depth from a reference point |
| | STORET PARM CODE | 82546 |

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| Name | Alias Type | Alias Name |
|---|-----------------------------|--|
| Water level in well, measured from MSL | EPA ID (SUBSTANCE REGISTRY) | E1647288 |
| | EPA REFERENCE ID (EPA ONLY) | 1647288 |
| | EPA SYSTEMATIC NAME | Water level in well, mean sea level |
| | STORET PARM CODE | 72019 -- DEPTH-FT BL LAND SURFACE |
| | STORET PARM CODE | 72109 -- DEPTH TO WATER FR MPFT |
| | STORET PARM CODE | 82545 -- WTR LEVL REL TO MSL (FT) |
| | STORET PARM CODE | 82546 -- DEPTH FR M WL TO MP (FT) |
| Water level in well, measured from ground surface | EPA ID (SUBSTANCE REGISTRY) | E1642040 |
| | EPA REFERENCE ID (EPA ONLY) | 1642040 |
| | EPA SYSTEMATIC NAME | Depth, from ground surface to well water level |
| Water level reference point elevation | EPA ID (SUBSTANCE REGISTRY) | E52457249 |
| | EPA REFERENCE ID (EPA ONLY) | 52457249 |
| | EPA SYSTEMATIC NAME | Water level reference point elevation |
| | STORET PARM CODE | 82514 |
| Wave height | EPA ID (SUBSTANCE REGISTRY) | E1647312 |
| | EPA REFERENCE ID (EPA ONLY) | 1647312 |
| | EPA SYSTEMATIC NAME | Wave height |
| | STORET PARM CODE | 70222 -- WAVE HEIGHT WMO CODE |

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| Name | Alias Type | Alias Name |
|--|-------------------------------------|-------------------------------------|
| Weight | EPA ID (SUBSTANCE REGISTRY) | E1647338 |
| | EPA REFERENCE ID (EPA ONLY) | 1647338 |
| | EPA SYSTEMATIC NAME | Weight |
| | STORET PARM CODE | 00019 -- SAMPLE WEIGHT GRAMS |
| | STORET PARM CODE | 00023 -- WEIGHT POUNDS |
| | STORET PARM CODE | 01374 -- SMPL IND VD WT BI O.TISSGM |
| | STORET PARM CODE | 45578 -- WET WEIGHT (MG) |
| | STORET PARM CODE | 70288 -- UNFLTD ASH WT MG/L |
| | STORET PARM CODE | 82656 -- FISH WET WT WHOLE G |
| | STORET PARM CODE | 85233 -- FISH WT. HEADED & EVSRAT G |
| | STORET PARM CODE | 85664 -- WET WGT, FISH LIVER, G |
| | STORET PARM CODE | 85665 -- WET WGT, FISH,RT FILLET,G |
| STORET PARM CODE | 85666 -- WET WGT, FISH,LFT FILLET,G | |
| Width | EPA ID (SUBSTANCE REGISTRY) | E1645258 |
| | EPA REFERENCE ID (EPA ONLY) | 1645258 |
| | EPA SYSTEMATIC NAME | Width |
| | STORET PARM CODE | 04121 -- HORIZONT WDTHTVERT FEET |
| Wind direction (direction from, expressed 0-360 deg) | EPA ID (SUBSTANCE REGISTRY) | E1647387 |
| | EPA REFERENCE ID (EPA ONLY) | 1647387 |
| | EPA SYSTEMATIC NAME | Wind direction |
| | STORET PARM CODE | 00036 -- WIND DIR.FROM NORTH-0 |
| | STORET PARM CODE | 00038 -- WIND DIRECT WMO CODE |
| | STORET PARM CODE | 00040 -- WIND DIRECT AZIMUTH |
| Wind force, Beaufort scale | EPA ID (SUBSTANCE REGISTRY) | E1647403 |
| | EPA REFERENCE ID (EPA ONLY) | 1647403 |
| | EPA SYSTEMATIC NAME | Wind force, Beaufort scale |
| | STORET PARM CODE | 00037 -- WIND FORCE BEAUFORT |

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| Name | Alias Type | Alias Name |
|---------------------------------|-----------------------------|---------------------------------|
| Wind velocity | EPA ID (SUBSTANCE REGISTRY) | E1647411 |
| | EPA REFERENCE ID (EPA ONLY) | 1647411 |
| | EPA SYSTEMATIC NAME | Wind velocity |
| | STORET PARM CODE | 00035 -- WIND VELOCITY MPH |
| | STORET PARM CODE | 46505 -- WIND VEL @304.8CM MPH |
| | STORET PARM CODE | 82127 -- WIND SPEED KNOTS |
| Withdrawal rate of ground water | EPA ID (SUBSTANCE REGISTRY) | E1647429 |
| | EPA REFERENCE ID (EPA ONLY) | 1647429 |
| | EPA SYSTEMATIC NAME | Withdrawal rate |
| | STORET PARM CODE | 72050 -- WITHDRWL OF GW MGAL/MO |
| | STORET PARM CODE | 72051 -- WITHDRWL OF GW MGAL/YR |
| | | |