

| PARAMETRI CONTROLLI ACQUE REFLUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                |     |
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| DETERMINAZIONE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | METODO                                                                         | ACC |
| Anioni: Fluoruri, Cloruri, Nitrati, Solfati.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | APAT CNR IRSA 4020 Man 29 2003                                                 | ✓   |
| Azoto ammoniacale                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | APAT CNR IRSA 4030 A2, C Man 29 2003                                           | ✓   |
| Azoto nitroso (>0,05 mg/L)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | APAT CNR IRSA 4050 Man 29 2003                                                 | ✓   |
| Azoto totale (1÷40 mg/l N)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | UNI 11658:2016                                                                 | ✓   |
| Fosforo totale                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | UNI 11757:2019                                                                 | ✓   |
| Fosforo totale                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | APAT CNR IRSA 4110 A2 Man 29 2003                                              | ✓   |
| pH (4 - 10 pH)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | APAT CNR IRSA 2060 Man 29 2003                                                 | ✓   |
| Conduttività (conducibilità) (50 - 1000 uS/cm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | APAT CNR IRSA 2030 Man 29 2003                                                 | ✓   |
| Richiesta chimica di ossigeno (COD) (>5 mg/L)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ISPRA Man 117 2014                                                             | ✓   |
| Richiesta biochimica di ossigeno (BOD5) (5 - 1000 mg/L)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | APAT CNR IRSA 5120 B1 Man 29 2003                                              | ✓   |
| Carbonio organico disciolto (DOC), Carbonio organico totale (TOC) (0,2÷1000 mg/l)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | UNI EN 1484:1999                                                               | ✓   |
| Tensioattivi non ionici (PPAS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | (Kit Lange LCK 333:2013) DIN 38409-H23-2:1980                                  | ✓   |
| Tensioattivi anionici (MBAS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | APAT CNR IRSA 5170 Man 29 2003                                                 | ✓   |
| Tensioattivi totali                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | APAT CNR IRSA 5170 Man 29 2003 + (Kit Lange LCK 333:2013) DIN 38409-H23-2:1980 | ✓   |
| Solidi sospesi totali (>1 mg/L)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | APAT CNR IRSA 2090 B Man 29 2003                                               | ✓   |
| idrocarburi frazione volatile (C6-C10), (esclusi aromatici)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | EPA 8260 C 2006                                                                | ✓   |
| idrocarburi frazione estraibile (C10-C40)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | MANUALI ISPRA 123/2015 – METODO B                                              | ✓   |
| Idrocarburi totali                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ISPRA Man 123 2015 METODO B                                                    | ✓   |
| Oli minerali e idrocarburi di origine petrolifera persistenti (C20-C40)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ISPRA Man 123 2015 METODO B                                                    | ✓   |
| 1,1,1,2-Tetracloroetano, 1,1,1-Tricloroetano, 1,1,2,2-Tetracloroetano, 1,1,2-Tricloroetano, 1,1-Dicloroetano, 1,1-Dicloroetilene, 1,1-Dicloropropene, 1,2,3-Triclorobenzene, 1,2,3-Tricloropropano, 1,2,4,5-Tetraclorobenzene, 1,2,4-Triclorobenzene, 1,2,4-Trimetilbenzene, 1,2-Dibromo-3-Cloropropano, 1,2-Dibromoetano, 1,2-Diclorobenzene, 1,2-Diclorobenzene, 1,2-Dicloroetano, 1,2-Dicloroetilene - cis, 1,2-Dicloroetilene - trans, 1,2-Dicloropropano, 1,3,5-Triclorobenzene, 1,3,5-Trimetilbenzene, 1,3-Diclorobenzene, 1,3-Dicloropropano, 1,3-Dicloropropene - cis, 1,3-Dicloropropene - trans, 1,4-Diclorobenzene, 2,2-Dicloropropano, 2-Clorotoluene, 3-Clorotoluene, 4-Clorotoluene, Benzene, Bromobenzene, Bromoclorometano, Bromodiclorometano, Clorobenzene, Dibromoclorometano, Dibromometano, Esaclorobutadiene, ETBE, Etilbenzene, Isopropilbenzene, MTBE, m-Xilene, Naftalene, n-Butilbenzene, n-Propilbenzene, o-Xilene, p-Isopropiltoluene, p-Xilene, sec-Butilbenzene, Stirene, tert-Butilbenzene, Tetracloroetilene, Tetraclorometano, Toluene, Tribromometano (Bromoformio), Tricloroetilene (Tielina - TCE), Triclorometano (Cloroformio). | UNI EN ISO 15680:2005                                                          | ✓   |

| PARAMETRI CONTROLLI ACQUE REFLUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                |     |
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| DETERMINAZIONE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | METODO                                                                                         | ACC |
| Idrocarburi policiclici aromatici (IPA): Antracene, Benzo(a)antracene, Benzo(a)pirene, Benzo(b+j)fluorantene, Benzo(e)pirene, Benzo(ghi)perilene, Benzo(k)fluorantene, Crisene, Dibenzo(a,h)antracene, Fenantrene, Fluorantene, Indeno(1,2,3-cd)pirene, Perilene, Pirene.                                                                                                                                                                                                                                                                                                    | ISO 28540:2011                                                                                 | ✓   |
| Alluminio, Antimonio, Argento, Arsenico, Bario, Berillio, Boro, Bromo, Cadmio, Cobalto, Cromo, Ferro, Iodio, Litio, Manganese, Mercurio, Nichel, Piombo, Rame, Selenio, Stagno, Stronzio, Tallio, Vanadio, Zinco.                                                                                                                                                                                                                                                                                                                                                            | UNI EN ISO 17294-2:2016                                                                        | ✓   |
| Alluminio; Boro; Bario; Cadmio; Cobalto; Cromo; Rame; Ferro; Manganese; Nichel; Fosforo; Piombo; Stronzio; Vanadio; Zinco.                                                                                                                                                                                                                                                                                                                                                                                                                                                   | APAT CNR IRSA 3010A Man 29 2003 +<br>APAT CNR IRSA 3020 Man 29 2003                            | ✓   |
| Cromo VI (>0,5 ug/L)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | APHA Standard Methods for the<br>Examination of Water and Wastewater ed<br>23nd 2017 3500-Cr C | ✓   |
| Conta di Escherichia coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | APAT CNR IRSA 7030 D Man 29 2003                                                               | ✓   |
| Escherichia coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | APAT CNR IRSA 7030 D Man 29 2003                                                               | ✓   |
| Ricerca di Salmonella spp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | APAT CNR IRSA 7080 Man 29 2003                                                                 | ✓   |
| Saggio di tossicità (Daphnia magna)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | APAT CNR IRSA 8020 Man 29 2003                                                                 | ✓   |
| Saggio di tossicità (Vibrio fischeri)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | UNI EN ISO 11348-3:2009                                                                        | ✓   |
| Cianuri totali (come CN)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | APAT CNR IRSA 4070 Man 29 2003                                                                 |     |
| Cloro attivo libero                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | APAT CNR IRSA 4080 Man 29 2003                                                                 |     |
| Perossidi (come acido peracetico)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | APAT CNR IRSA 4080 Man 29 2003                                                                 |     |
| Solfiti (cromatografia ionica)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | UNI EN ISO 10304-3: 2000                                                                       | ✓   |
| Solfuri (come H <sub>2</sub> S)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | APAT CNR IRSA 4160 Man 29 2003                                                                 |     |
| Aldeidi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Kit Lange LCK 325:2013                                                                         | ✓   |
| Fenoli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | APAT CNR IRSA 5070 A2 Man 29 2003                                                              | ✓   |
| Pesticidi clorurati                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Standard Methods APHA n.6410 B (23st                                                           |     |
| Pesticidi fosforati                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Standard Methods APHA n.6410 B (23st                                                           |     |
| Pesticidi totali (esclusi i fosforati)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Standard Methods APHA n.6410 B (23st                                                           |     |
| Solventi clorurati                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | UNI EN ISO 15680:2005                                                                          | ✓   |
| Solventi Organici Aromatici                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | UNI EN ISO 15680:2005                                                                          | ✓   |
| Solventi Organoalogenati                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | UNI EN ISO 15680:2005                                                                          | ✓   |
| Vinilcloruro                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | UNI EN ISO 15680:2005                                                                          |     |
| Grassi e olii animali/vegetali                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | APAT CNR IRSA 5160 A1 Man 29 2003                                                              |     |
| Aclonifen, Acetochlor, Aldrin, Bifenox, Chlordano-cis (alfa), Chlordano-trans (gamma), Cypermethrin, Cybutrine, DDD-o,p'; DDD-p,p', DDE-o,p'; DDE-p,p', DDT-o,p'; DDT-p,p', Dichlorvos, Dicofol, Dieldrin, Endosulfan I (alfa), Endosulfan II (beta), Endosulfan Sulfate, Endrin, Esaclorocicloesano-alfa (alfa-HCH), Esaclorocicloesano-beta (beta-HCH), Esaclorocicloesano-delta (delta-HCH), Esaclorocicloesano-gamma (gamma-HCH), Fenitrothion, Heptachlor, Heptachlor-Epoxide, Hexachlorobenzene, Parathion Etile; Parathion Metile; Isodrin, Methoxychlor Trifluralin. | APHA Standard Methods for the<br>Examination of Water and Wastewater ed<br>23nd 2017 6410 B    |     |

| PARAMETRI CONTROLLI ACQUE REFLUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                  |     |
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| DETERMINAZIONE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | METODO                           | ACC |
| 2,4 D; 2,4,5-T; 2-OH-Atrazina; 2-OH-Terbutilazina; 3-hydroxy-carbofuran; Acetamiprid; Alachlor; Atrazina; Azinphos-Etile; Azinphos-Metile; Azoxystrobin; Bentazone; Boscalid; Bromacil; Carbendazim; Carbofuran; Chlorantraniliprole; Chlorfenvinphos; Chloridazon; Chloridazon-desphenil; Chloridazon-methyl-desphenyl; Chlortoluron; Chlorpiriphos; Cianazina; Clothianidin; Clotrimazolo; Cybutryne; Cymoxanil; Cyprodinil; DesetildesisopropilAtrazina (DACT); Desetilatraxina; Desetil-terbutilazina; Desisopropil-atrazina; Diazinon; Diethofencarb; Difenconazole; Diflufenican; Dimethenamid; Dimethenamid-ESA; Dimethoate; Dimethomorph; Dimoxistrobin; Diuron; Fenexhamid; Fluconazolo; Flufenacet; Flufenacet-ESA; Fludioxonil; Flupicolide; Fluopyram; Heptenophos; Imazalil; Imazamox; Imidacloprid; Ipconazolo; Iprovalicarb; Isoproturon; Kresoxim Metile; Lenacil; Linuron; Malathion; Mandipropamid; MCPA; Metalaxyl; Metazachlor; Metazachlor-ESA; Metazachlor-OXA; Metconazolo; Methamidophos; Methidathion; Methiocarb; Methoxyfenozide; Metolachlor; Metolachlor-ESA; Metolachlor-OXA; Metribuzin; Mevinphos; Miconazolo; Monolinuron; Monuron; Nicosulfuron; Oxadiazon; Omethoate; Oxadixyl; Oxydemeton-Methyl; Penconazolo; Pendimetalin; Piperonyl butossido; Pirimifos-Etile; Pirimofos-Metile; Pethoxamid; Procloraz; Propazina; Propamocarb; Pyraclostrobin; Pyrimethanil; Pyridapenthion; Quinoxyfen; Sebutilazina; Simazina; Spiroxamina; Tebuconazolo; Temephos; Terbutilazina; Terbutrina; Tetrachlorvinphos; Tetraconazolo; Thiacloprid; Thiametoxam; Thiophanate Metile; Triallate; Zoxamide. | POS 004/LUD Ed.2 Rev.1 2017      |     |
| Composti organo alogenati volatili rilevabili in GC-MS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | UNI EN ISO 15680:2005            |     |
| Materiali sedimentabili                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | APAT CNR IRSA 2090 C Man 29 2003 |     |
| TBT Composti del TriButilStagno (come catione)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | UNI EN ISO 17353:2006            |     |
| TPhT Composti del TriPhenilStagno (come catione)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | UNI EN ISO 17353:2006            |     |
| Difenileteri Bromurati (sommatoria congeneri 28, 47, 99, 100, 153, 154)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | EPA 1614 2007                    |     |
| Esabromociclododecano (HBCDD)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | EPA 1614 2007                    |     |
| 2,4,5-Triclorofenolo, 2,4,6-Triclorofenolo, 2,4-Diclorofenolo, 2-Clorofenolo, 3-Clorofenolo, 4-Clorofenolo, Bisfenolo A, Nonilfenolo, Octilfenolo, Pentaclorofenolo.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | UNI EN 12673:2001                |     |
| Verde Malachite                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Metodo interno                   |     |
| BBzP - Benzil-Butil-ftalato, DBP - Di-Butil-ftalato, DEHP - bis-(2-etiesil)-ftalato, DEP - Di-Etil-ftalato, DMP - Di-Metil-ftalato, DNOP - Di-n-Ottal-ftalato.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | POS 180/LUD E1 r1 2022           |     |

| PARAMETRI CONTROLLI ACQUE REFLUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |     |
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| DETERMINAZIONE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | METODO         | ACC |
| Acidi perfluoroalchilici:<br>Acido perfluorobutanoico (PFBA),<br>Acido perfluoropentanoico (PFPeA),<br>Acido perfluoroesanoico (PFHxA),<br>Acido perfluoroeptanoico (PFHpA),<br>Acido perfluoroottanoico (PFOA),<br>Acido perfluorononanoico (PFNA),<br>Acido perfluorodecanoico (PFDA),<br>Acido perfluorundecanoico (PFUnDA),<br>Acido perfluorododecanoico (PFDoDA),<br>Acido perfluorotridecanoico (PFTrDA),<br>Acido perfluorobutanosolfonico (PFBS),<br>Acido perfluoropentansolfonico (PFPeS),<br>Acido perfluoroesansolfonico (PFHxS),<br>Acido perfluoroeptansolfonico (PFHpS),<br>Acido perfluoroottansolfonico (PFOS),<br>Acido perfluorononansolfonico (PFNS),<br>Acido perfluorodecansolfonico (PFDS),<br>Acido perfluoroundecansolfonico,<br>Acido perfluorododecansolfonico,<br>Acido perfluorotridecansolfonico,<br>Acido 2,3,3,3-tetrafluoro-2-(eptafuoropropossi)propanoico (HFPO-DA o GenX),<br>Acido dodecafluoro-3H-4,8-diossanonanoico (ADONA),<br>Fluorotelomero solfonato (6:2 FTS),<br>Acido difluoro{[2,2,4,5- tetrafluoro-5- (trifluorometossi)-1,3-diossolan-4-yl]ossi}acetico (C6O4) | ISO 21675:2019 | √   |

#### LEGENDA

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