|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Perfil Nº |  | Tipo |  |  |  |  |
| Taxonomía |  | | | | | |
| Unidad Cartográfica |  | | | | Símbolo |  |
| Localización: | Departamento |  |  | Municipio |  |  |
| Sitio |  | | | | Altitud |  |
| Plancha Nº |  | Aerofotografía Nº |  |  | Vuelo |  |
| Coordenadas geográficas |  |  |  |  |  |  |
| GEOMORFOLOGÍA | Paisaje |  | T. de Relieve |  | F. del terreno |  |
| Material parental/ Litología \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | |  | Grado de alteración |  |  |
| Relieve \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  | Disección |  | Microrrelieve |  |  |
| PENDIENTE | Gradiente |  | Longitud |  | Forma |  |
| Clima ambiental (Caldas-lang) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | | | | |
| Formación ecológica (Holdridge) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | | | | |
| Temperatura promedio anual |  | | | Precipitación promedio anual | |  |
| Distribución de lluvias |  | | | | | |
| CLIMA EDÁFICO | Régimen de temperatura | |  |  | Régimen de humedad |  |
| DEGRADACIÓN | Clase \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Tipo \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | | | |
| Erosión | Clase \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | Tipo |  | Grado |  |
| Evidencias de erosión |  | | | | |  |
| Movimientos en masa |  |  | Tipo |  | Frecuencia |  |
| AFLORAMIENTOS ROCOSOS | Clase |  | Superficie cubierta% | |  |  |
| PEDREGOSIDAD SUPERFICIAL | Tipo |  | Clase |  | Superficie Cubierta% |  |
| DRENAJES | Interno |  | Externo |  | Natural |  |
| NIVEL FREÁTICO | Naturaleza |  | Profundidad (cm) |  |  |  |
| Inundaciones | Frecuencia |  | Duración |  |  |  |
| Encharcamientos | Frecuencia |  | Duración |  |  |  |
| Profundidad efectiva \_\_\_\_\_\_\_\_\_\_\_ | Clase \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | Limitada por |  | | |
| Profundidad (cm) |  |  |  |  | | |
| Cementación | Clase de agente \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |  | Grado |  |  |
| Grietas: Grosor (cm) |  | |  | Longitud (cm) |  | |
| Plintita | Volumen |  | | Fase |  | |
| Uso actual |  | | | | | |
| Limitantes del uso |  | | | | | |
| Clasificación por capacidad de uso | | Clase |  | Subclase |  |  |
| Vegetación natural |  | | | | | |
| Descrito por |  | | | | | |
| Características diagnósticas |  | | | | | |
| Observaciones |  | | | | | |
|  | | | | | | |

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| Horizontes | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | |
| Características |
| Profundidad (cm) |  | |  | |  | |  | |  | |  | |
| Nomenclatura |  | |  | |  | |  | |  | |  | |
| Epipedón |  | |  | |  | |  | |  | |  | |
| Endopedón |  | |  | |  | |  | |  | |  | |
| 1º color matriz en seco |  | |  | |  | |  | |  | |  | |
| 2º color matriz en seco |  | |  | |  | |  | |  | |  | |
| 1º color matriz en húmedo |  | |  | |  | |  | |  | |  | |
| 2º color matriz en húmedo |  | |  | |  | |  | |  | |  | |
| % observado |  | |  | |  | |  | |  | |  | |
| MOTEADOS |  | |  | |  | |  | |  | |  | |
| Color |  |  |  |  |  |  |  |  |  |  |  |  |
| Cantidad (%observado) |  |  |  |  |  |  |  |  |  |  |  |  |
| Tamaño |  |  |  |  |  |  |  |  |  |  |  |  |
| Nitidez |  |  |  |  |  |  |  |  |  |  |  |  |
| Textura |  | |  | |  | |  | |  | |  | |
| Modificador de textura |  | |  | |  | |  | |  | |  | |

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|  | **HORIZONTES** | | | | | | | | | | | | | | | | | |  | **HORIZONTES** | | | | | |
|  |  |
| **FRAGMENTOS DE ROCA** | 1 | | | 2 | | | 3 | | | 4 | | | 5 | | | 6 | | | **MATERIALES DE S. ORGANICOS** | 1 | 2 | 3 | 4 | 5 | 6 |
| TIPO |  | | |  | | |  | | |  | | |  | | |  | | | CLASE |  | | | | | |
| Gravilla |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Sin identificar |  |  |  |  |  |  |
| Cascajo |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Sápricos |  |  |  |  |  |  |
| Guijarro |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Hémicos |  |  |  |  |  |  |
| Laja |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Fíbricos |  |  |  |  |  |  |
| Piedra |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Límnicos |  |  |  |  |  |  |
| Pedregón |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | COMPOSICIÓN |  | | | | | |
| FORMA |  | | |  | | |  | | |  | | |  | | |  | | | No indicada |  |  |  |  |  |  |
| Angular |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Fibra |  |  |  |  |  |  |
| Irregular |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Hierba |  |  |  |  |  |  |
| Plana |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Leños |  |  |  |  |  |  |
| Subredondeada |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Marga |  |  |  |  |  |  |
| VOLUMEN % |  | | |  | | |  | | |  | | |  | | |  | | | Ferrihúmica |  |  |  |  |  |  |
| Poco o no hay |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Humilúvica |  |  |  |  |  |  |
| Frecuente |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Sulfídica |  |  |  |  |  |  |
| Mucho |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Musgos |  |  |  |  |  |  |
| Abundante |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Tierra coprógena |  |  |  |  |  |  |
| ALTERACION |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Tierra diatomácea |  |  |  |  |  |  |
| Sin Alteración |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Otros |  |  |  |  |  |  |
| Mediana |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fuerte |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| NATURALEZA |  | | |  | | |  | | |  | | |  | | |  | | |  |  |  |  |  |  |  |
| Ígnea |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Metamórfica |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sedimentaria |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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|  | | **HORIZONTES** | | | | | | | | | | | |  | |  |  |  |  |  |  |
|  | | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | |  | | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | |
| **ESTRUCTURA** | |  | |  | |  | |  | |  | |  | | EN MOJADO | |  | |  | |  | |  | |  | |  | |
| TIPO | | No pegajosa | |  | |  | |  | |  | |  | |  | |
| B. Angulares | |  |  |  |  |  |  |  |  |  |  |  |  | Lig. Pegajosa | |  | |  | |  | |  | |  | |  | |
| B. Subangulares | |  |  |  |  |  |  |  |  |  |  |  |  | Pegajosa | |  | |  | |  | |  | |  | |  | |
| Gránulos | |  |  |  |  |  |  |  |  |  |  |  |  | Muy pegajosa | |  | |  | |  | |  | |  | |  | |
| Migajones | |  |  |  |  |  |  |  |  |  |  |  |  | No plástica | |  | |  | |  | |  | |  | |  | |
| Prismas | |  |  |  |  |  |  |  |  |  |  |  |  | Lig. Plástica | |  | |  | |  | |  | |  | |  | |
| Pris/b. angulares | |  |  |  |  |  |  |  |  |  |  |  |  | Plástica | |  | |  | |  | |  | |  | |  | |
| Pris/b. subangulares | |  |  |  |  |  |  |  |  |  |  |  |  | Muy plástica | |  | |  | |  | |  | |  | |  | |
| Columnas | |  |  |  |  |  |  |  |  |  |  |  |  | **ASPECTO PEDS** | |  |  |  |  |  |  |  |  |  |  |  |  |
| Col/b. angulares | |  |  |  |  |  |  |  |  |  |  |  |  | CLASE | |  |  |  |  |  |  |  |  |  |  |  |  |
| Col/b. subangulares | |  |  |  |  |  |  |  |  |  |  |  |  | Pel de arcilla | |  |  |  |  |  |  |  |  |  |  |  |  |
| Láminas | |  |  |  |  |  |  |  |  |  |  |  |  | Puentes de arcilla | |  |  |  |  |  |  |  |  |  |  |  |  |
| Sin est. (masiva) | |  |  |  |  |  |  |  |  |  |  |  |  | Rec. De arena | |  |  |  |  |  |  |  |  |  |  |  |  |
| Sin est. (suelta) | |  |  |  |  |  |  |  |  |  |  |  |  | Rec de limo | |  |  |  |  |  |  |  |  |  |  |  |  |
| CLASE (Tamaño) | |  | | | | | | | | | | | | Rec de FeO2 | |  |  |  |  |  |  |  |  |  |  |  |  |
| Muy fina | |  |  |  |  |  |  |  |  |  |  |  |  | Rec. de Al | |  |  |  |  |  |  |  |  |  |  |  |  |
| Fina | |  |  |  |  |  |  |  |  |  |  |  |  | Rec. de Mn | |  |  |  |  |  |  |  |  |  |  |  |  |
| Muy fina y fina | |  |  |  |  |  |  |  |  |  |  |  |  | Rec. de M.O | |  |  |  |  |  |  |  |  |  |  |  |  |
| Media | |  |  |  |  |  |  |  |  |  |  |  |  | Rec. de sales | |  |  |  |  |  |  |  |  |  |  |  |  |
| Fina y media | |  |  |  |  |  |  |  |  |  |  |  |  | Rec. de carbonatos | |  |  |  |  |  |  |  |  |  |  |  |  |
| Gruesa | |  |  |  |  |  |  |  |  |  |  |  |  | Sup de presión | |  |  |  |  |  |  |  |  |  |  |  |  |
| media y gruesa | |  |  |  |  |  |  |  |  |  |  |  |  | Sup de deslizam. | |  |  |  |  |  |  |  |  |  |  |  |  |
| Muy gruesa | |  |  |  |  |  |  |  |  |  |  |  |  | No identificada | |  |  |  |  |  |  |  |  |  |  |  |  |
| GRADO | |  | |  | |  | |  | |  | |  | | CANTIDAD | |  | | | | | | | | | | | |
| Débil | |  | |  | |  | |  | |  | |  | | Muy pocos | |  |  |  |  |  |  |  |  |  |  |  |  |
| Moderada | |  | |  | |  | |  | |  | |  | | Pocos | |  |  |  |  |  |  |  |  |  |  |  |  |
| Fuerte | |  | |  | |  | |  | |  | |  | | Frecuentes | |  |  |  |  |  |  |  |  |  |  |  |  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  | Muchos | |  |  |  |  |  |  |  |  |  |  |  |  |
| **CONSISTENCIA** | |  | |  | |  | |  | |  | |  | | CLARIDAD | |  | | | | | | | | | | | |
| EN SECO | |  | |  | |  | |  | |  | |  | | Tenue | |  |  |  |  |  |  |  |  |  |  |  |  |
| Suelta | |  | |  | |  | |  | |  | |  | | Clara (definida) | |  |  |  |  |  |  |  |  |  |  |  |  |
| Polvosa | |  | |  | |  | |  | |  | |  | | Prominente | |  |  |  |  |  |  |  |  |  |  |  |  |
| Lig. Dura | |  | |  | |  | |  | |  | |  | | LOCALIZACIÓN | |  | | | | | | | | | | | |
| Dura | |  | |  | |  | |  | |  | |  | | Caras horizontales | |  |  |  |  |  |  |  |  |  |  |  |  |
| Muy dura | |  | |  | |  | |  | |  | |  | | Caras verticales | |  |  |  |  |  |  |  |  |  |  |  |  |
| Ext. Dura | |  | |  | |  | |  | |  | |  | | Ambas caras | |  |  |  |  |  |  |  |  |  |  |  |  |
| EN HUMEDO | |  | |  | |  | |  | |  | |  | | Canales y poros | |  |  |  |  |  |  |  |  |  |  |  |  |
| Suelta | |  | |  | |  | |  | |  | |  | | Todo el Horizonte | |  |  |  |  |  |  |  |  |  |  |  |  |
| Muy friable | |  | |  | |  | |  | |  | |  | | Ped y sobre rocas | |  |  |  |  |  |  |  |  |  |  |  |  |
| Friable | |  | |  | |  | |  | |  | |  | | Arenas y gravas | |  |  |  |  |  |  |  |  |  |  |  |  |
| Firme | |  | |  | |  | |  | |  | |  | | Entre granos | |  |  |  |  |  |  |  |  |  |  |  |  |
| Muy firme | |  | |  | |  | |  | |  | |  | | Nódulos | |  |  |  |  |  |  |  |  |  |  |  |  |
| Ext firme | |  | |  | |  | |  | |  | |  | | Concreciones | |  |  |  |  |  |  |  |  |  |  |  |  |
|  | | **HORIZONTES** | | | | | | | | | | | |  | |
|  | | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | |  | | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | |
| **CONCENTRACIONES** | |  | |  | |  | |  | |  | |  | | TAMAÑO | |  | |  | |  | |  | |  | |  | |
| CANTIDAD | | Muy finos | |  |  |  |  |  |  |  |  |  |  |  |  |
| Pocas | |  |  |  |  |  |  |  |  |  |  |  |  | Finos | |  |  |  |  |  |  |  |  |  |  |  |  |
| Frecuentes | |  |  |  |  |  |  |  |  |  |  |  |  | Medianos | |  |  |  |  |  |  |  |  |  |  |  |  |
| Muchas | |  |  |  |  |  |  |  |  |  |  |  |  | Gruesos | |  |  |  |  |  |  |  |  |  |  |  |  |
| CLASE | |  | |  | |  | |  | |  | |  | | FORMA | |  | |  | |  | |  | |  | |  | |
| Nódulos | |  |  |  |  |  |  |  |  |  |  |  |  | Vesiculares | |  |  |  |  |  |  |  |  |  |  |  |  |
| Concreciones | |  |  |  |  |  |  |  |  |  |  |  |  | Tubulares | |  |  |  |  |  |  |  |  |  |  |  |  |
| Cristales | |  |  |  |  |  |  |  |  |  |  |  |  | Irregulares | |  |  |  |  |  |  |  |  |  |  |  |  |
| Polvo | |  |  |  |  |  |  |  |  |  |  |  |  | CONTINUIDAD | |  | |  | |  | |  | |  | |  | |
| Plintita | |  |  |  |  |  |  |  |  |  |  |  |  | Continuos | |  |  |  |  |  |  |  |  |  |  |  |  |
| Micelios | |  |  |  |  |  |  |  |  |  |  |  |  | Discontinuos | |  |  |  |  |  |  |  |  |  |  |  |  |
| COMPOSICION | |  | |  | |  | |  | |  | |  | | LOCALIZACIÓN | |  | |  | |  | |  | |  | |  | |
| Aluminio | |  |  |  |  |  |  |  |  |  |  |  |  | Imped | |  |  |  |  |  |  |  |  |  |  |  |  |
| Arcilla | |  |  |  |  |  |  |  |  |  |  |  |  | Exped | |  |  |  |  |  |  |  |  |  |  |  |  |
| Carbonato | |  |  |  |  |  |  |  |  |  |  |  |  | **RAICES** | |  | |  | |  | |  | |  | |  | |
| Hierro | |  |  |  |  |  |  |  |  |  |  |  |  | CANTIDAD | |
| Manganeso | |  |  |  |  |  |  |  |  |  |  |  |  | No hay | |  |  |  |  |  |  |  |  |  |  |  |  |
| Sal | |  |  |  |  |  |  |  |  |  |  |  |  | Pocas | |  |  |  |  |  |  |  |  |  |  |  |  |
| Sílice | |  |  |  |  |  |  |  |  |  |  |  |  | Frecuentes | |  |  |  |  |  |  |  |  |  |  |  |  |
| Yeso | |  |  |  |  |  |  |  |  |  |  |  |  | Muchas | |  |  |  |  |  |  |  |  |  |  |  |  |
| FORMA | |  | |  | |  | |  | |  | |  | | TAMAÑO | |  | |  | |  | |  | |  | |  | |
| Redondeadas | |  |  |  |  |  |  |  |  |  |  |  |  | Muy finas | |  |  |  |  |  |  |  |  |  |  |  |  |
| Cilíndricas | |  |  |  |  |  |  |  |  |  |  |  |  | Finas | |  |  |  |  |  |  |  |  |  |  |  |  |
| Laminares | |  |  |  |  |  |  |  |  |  |  |  |  | Medias | |  |  |  |  |  |  |  |  |  |  |  |  |
| Irregulares | |  |  |  |  |  |  |  |  |  |  |  |  | Gruesas | |  |  |  |  |  |  |  |  |  |  |  |  |
| TAMAÑO | |  | |  | |  | |  | |  | |  | | ESTADO | |  | |  | |  | |  | |  | |  | |
| Finas | |  |  |  |  |  |  |  |  |  |  |  |  | Vivas | |  |  |  |  |  |  |  |  |  |  |  |  |
| Medias | |  |  |  |  |  |  |  |  |  |  |  |  | Muertas | |  |  |  |  |  |  |  |  |  |  |  |  |
| Gruesas | |  |  |  |  |  |  |  |  |  |  |  |  | DISTRIBUCIÓN | |  | |  | |  | |  | |  | |  | |
| Muy gruesas | |  |  |  |  |  |  |  |  |  |  |  |  | Normal | |  |  |  |  |  |  |  |  |  |  |  |  |
| Ext. Gruesas | |  |  |  |  |  |  |  |  |  |  |  |  | Anormal | |  |  |  |  |  |  |  |  |  |  |  |  |
| CONSISTENCIA | |  | |  | |  | |  | |  | |  | | LOCALIZACIÓN | |  | |  | |  | |  | |  | |  | |
| Duras | |  |  |  |  |  |  |  |  |  |  |  |  | En grietas | |  |  |  |  |  |  |  |  |  |  |  |  |
| Blandas | |  |  |  |  |  |  |  |  |  |  |  |  | Horizontes | |  |  |  |  |  |  |  |  |  |  |  |  |
| DISTRIBUCIÓN | |  |  |  |  |  |  |  |  |  |  |  |  | Imped | |  |  |  |  |  |  |  |  |  |  |  |  |
| Uniforme | |  |  |  |  |  |  |  |  |  |  |  |  | Exped | |  |  |  |  |  |  |  |  |  |  |  |  |
| Irregular | |  |  |  |  |  |  |  |  |  |  |  |  | Recb. roca o grava | |  |  |  |  |  |  |  |  |  |  |  |  |
|  | |  | | | | | | | | | | | | MACROORGANISMOS | |  | |  | |  | |  | |  | |  | |
| **POROS** | | ACTIVIDAD | |
| CANTIDAD | | No hay | |  |  |  |  |  |  |  |  |  |  |  |  |
| Pocos | |  |  |  |  |  |  |  |  |  |  |  |  | Poca | |  |  |  |  |  |  |  |  |  |  |  |  |
| Frecuentes | |  |  |  |  |  |  |  |  |  |  |  |  | Frecuente | |  |  |  |  |  |  |  |  |  |  |  |  |
| Muchos | |  |  |  |  |  |  |  |  |  |  |  |  | Mucha | |  |  |  |  |  |  |  |  |  |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **HORIZONTES** | | | | | | | | | | | | | | | | | |
|  | 1 | | | 2 | | | 3 | | | 4 | | | 5 | | | 6 | | |
| **REACCIONES** |  | | |  | | |  | | |  | | |  | | |  | | |
| REACTIVO |
| HCL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| NaF |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Alfa Alfa Dypiridil |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| H2O2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| GRADO |  | | |  | | |  | | |  | | |  | | |  | | |
| No hay |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ligera |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fuerte |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Violenta |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **LIMITES** |  | | |  | | |  | | |  | | |  | | |  | | |
| NITIDEZ |
| Abrupta |  | | |  | | |  | | |  | | |  | | |  | | |
| Clara |  | | |  | | |  | | |  | | |  | | |  | | |
| Gradual |  | | |  | | |  | | |  | | |  | | |  | | |
| Difusa |  | | |  | | |  | | |  | | |  | | |  | | |
| TOPOGRAFIA |  | | |  | | |  | | |  | | |  | | |  | | |
| Plana |  | | |  | | |  | | |  | | |  | | |  | | |
| Ondulada |  | | |  | | |  | | |  | | |  | | |  | | |
| Irregular |  | | |  | | |  | | |  | | |  | | |  | | |
| Interrumpida |  | | |  | | |  | | |  | | |  | | |  | | |
| Quebrado |  | | |  | | |  | | |  | | |  | | |  | | |
| **pH** |  | | |  | | |  | | |  | | |  | | |  | | |
| METODO-VALOR |  | | |  | | |  | | |  | | |  | | |  | | |
| Colorímetro |  | | |  | | |  | | |  | | |  | | |  | | |
| Potenciómetro |  | | |  | | |  | | |  | | |  | | |  | | |
| Otro |  | | |  | | |  | | |  | | |  | | |  | | |