

# DP 408

GEOCHIMIE DES SEDIMENTS DE RUISSEAU: REGIONS DE ST-RAPHAEL ET DE ST-MALACHIE (COMTES DE BELLECHASSE ET DE DORCHESTER)

Documents complémentaires

*Additional Files*



Licence



Licence

Cette première page a été ajoutée  
au document et ne fait pas partie du  
rapport tel que soumis par les auteurs.

Énergie et Ressources  
naturelles

Québec 

Région de St-Raphael-St-Malachie

St-Raphael-St-Malachie Area

Prélèvement

Le levé géochimique de la région a été effectué au cours de la campagne de cartographie géologique. 515 échantillons de sédiments de ruisseau ont été prélevés sur l'ensemble du territoire.

Des précautions opératoires très strictes ont été prises pour éviter toute contamination tant lors du prélèvement de l'échantillon que lors des traitements ultérieurs.

Analyses

Les échantillons, tamisés à -80 mesh, ont été analysés par le Centre de Recherches Minérales du Ministère des Richesses Naturelles.

Voici la procédure d'analyse pour chacun des éléments:

Cu, Zn, Pb, Co, Ni, Ag, Mn, Sb:

Attaque par HNO<sub>3</sub> concentré et chaud et dosage par absorption atomique.

U:

Attaque par HNO<sub>3</sub> concentré, élution chromatographique, formation d'un complexe avec P.A.N. et appréciation visuelle de l'intensité de la bande colorée.

Mo:

Attaque au HCL (6N), formation d'un complexe avec le dithiol, extraction avec le tétrachlorure de carbone et colorimétrie visuelle.

Sn:

Sublimation à l'iodure d'ammonium reprise au HCl, formation d'un complexe

Sampling

The geochemical sampling of this region was conducted simultaneously with the geological mapping. 515 stream sediment samples were collected all over the area.

Strict measures were enforced to minimize any risk of contamination during sampling and handling of samples.

Analysis

The samples were sieved to minus 80 mesh and analysed by le Centre de Recherches Minérales of the Ministère des Richesses Naturelles.

The analytical methods for each element are listed below:

Cu, Zn, Pb, Co, Ni, Ag, Mn, Sb:

Concentrated hot nitric acid attack and atomic absorption spectrophotometric analysis.

U:

Concentrated nitric acid attack, chromatographic elution, formation of a complex with P.A.N. and a visual assessment of the intensity of the colored band.

Mo:

Hydrochloric acid (6N) attack, formation of a complex with dithiol, carbon tetrachloride extraction and visual color assessment.

Sn:

Ammonium iodide sublimation, hydrochloric acid dissolution, formation of a

Ministère des Richesses Naturelles, Québec  
 SERVICE DE LA DOCUMENTATION TECHNIQUE  
 Date: .....  
 No DP-408

avec la galléine, extraction dans le chloroforme et dosage par colorimétrie visuelle.

Les résultats de ces analyses, exprimés en ppm, sont présentés en tableau à la fin de ce texte et ils sont également reportés sur la carte.

complex with gallein, chloroform extraction and visual color assessment.

The analytical results, expressed in ppm, appear both on a table at the end of this text and on the map.

## RESULTATS D ANALYSE

## CARACTERISTIQUES DE L ECHANTILLON

NUMERO		RESULTATS D ANALYSE										CARACTERISTIQUES DE L ECHANTILLON										COORDONNEES											
NOUV.	ANC.	CU	ZN	PB	CO	NI	AG	MN	MO	U	SB	SN	W	AU	P	L	N	V	T	R	E	C	C	T	G	C	PH	EC	M	J	COORDONNEES		
															R	A	A	I	A	E	P	U	D	Y	R	O		O	O	O	NORD	EST	
															O	R	T	T	C	C	A	L	N	P	A	U		I	U				
															F	G	U	E	H	O	I	T	T	E	N	L		S	R				
ZONE UTM 19																																	
48	852	6	90	20	-	18	-	-	0	4.0	-	-	-	-	0	00	0	0	0	0	0	0	0	0	0	4	0	0.0	00	00	00	5197908	384984
49	624	30	100	16	-	42	-	-	0	1.0	-	-	-	-	0	00	0	0	0	0	0	0	2	0	0	6	0	0.0	00	00	00	5193308	367908
50	653	6	125	16	-	0	-	-	0	2.0	-	-	-	-	0	00	0	0	0	0	0	0	2	0	0	6	0	0.0	00	00	00	5194992	368215
51	622	10	125	10	-	32	-	-	0	1.0	-	-	-	-	0	00	0	0	0	0	0	0	2	0	0	1	0	0.0	00	00	00	5195008	368973
52	623	16	75	10	-	40	-	-	0	*	-	-	-	-	0	00	0	0	0	0	0	0	0	0	1	0	0.0	00	00	00	5193728	370356	
53	630	16	100	16	-	50	-	-	0	2.0	-	-	-	-	0	00	0	0	0	0	0	0	2	0	0	6	0	0.0	00	00	00	5192896	370762
54	808	20	90	16	-	46	-	-	1	1.0	-	-	-	-	0	00	0	0	0	0	0	0	2	0	0	6	0	0.0	00	00	00	5193888	372100
55	649	6	75	10	-	32	-	-	0	0.5	-	-	-	-	0	00	0	0	0	0	0	0	2	0	0	1	0	0.0	00	00	00	5195000	372553
56	648	20	125	20	-	56	-	-	0	2.0	-	-	-	-	0	00	0	0	0	0	0	0	2	0	0	4	0	0.0	00	00	00	5195740	373612
57	809	20	125	10	-	40	-	-	1	2.0	-	-	-	-	0	00	0	0	0	0	0	0	2	0	0	6	0	0.0	00	00	00	5193676	373861
58	642	10	65	10	-	0	-	-	0	1.0	-	-	-	-	0	00	0	0	0	0	0	0	2	0	0	6	0	0.0	00	00	00	5193912	375098
59	810	20	125	30	-	12	-	-	0	2.0	-	-	-	-	0	00	0	0	0	0	0	0	2	0	0	6	0	0.0	00	00	00	5195392	375848
60	811	16	65	10	-	26	-	-	0	1.0	-	-	-	-	0	00	0	0	0	0	0	0	2	0	0	6	0	0.0	00	00	00	5195483	377396
61	10	4	85	6	-	6	-	-	0	1.0	-	-	-	-	0	00	0	0	0	0	0	0	0	0	1	0	0.0	00	00	00	5193572	378760	
62	646	6	90	75	-	0	-	-	1	4.0	-	-	-	-	0	00	0	0	0	0	0	0	0	0	4	0	0.0	00	00	00	5195288	378987	
63	647	6	50	30	-	28	-	-	1	2.0	-	-	-	-	0	00	0	0	0	0	0	0	0	0	4	0	0.0	00	00	00	5194732	379788	
64	400	8	75	10	-	6	-	-	0	0.5	-	-	-	-	0	00	0	0	0	0	0	0	0	0	6	0	0.0	00	00	00	5194148	380468	
65	618	6	90	16	-	28	-	-	0	0.5	-	-	-	-	0	00	0	0	0	0	0	0	0	0	1	0	0.0	00	00	00	5194940	381618	
66	218	6	40	10	-	8	-	-	0	2.0	-	-	-	-	0	00	0	0	0	0	0	0	0	0	6	0	0.0	00	00	00	5194044	381638	
67	525	10	125	16	-	36	-	-	0	2.0	-	-	-	-	0	00	0	0	0	0	0	0	2	0	0	4	0	0.0	00	00	00	5192404	386931
68	19	10	75	2	-	16	-	-	0	*	-	-	-	-	0	00	0	0	0	0	0	0	2	2	0	1	0	0.0	00	00	00	5190384	387869
69	626	16	90	10	-	30	-	-	0	2.0	-	-	-	-	0	00	0	0	0	0	0	0	2	0	0	4	0	0.0	00	00	00	5190860	388733
70	628	20	90	16	-	35	-	-	0	1.0	-	-	-	-	0	00	0	0	0	0	0	0	0	0	1	0	0.0	00	00	00	5192252	389207	
71	627	6	40	10	-	30	-	-	0	1.0	-	-	-	-	0	00	0	0	0	0	0	0	2	0	0	6	0	0.0	00	00	00	5190484	370904
72	641	6	25	40	-	33	-	-	1	1.0	-	-	-	-	0	00	0	0	0	0	0	0	0	0	4	0	0.0	00	00	00	5190712	371996	
73	629	6	75	6	-	0	-	-	0	0.5	-	-	-	-	0	00	0	0	0	0	0	0	2	0	0	1	0	0.0	00	00	00	5192112	372350
74	631	8	40	16	-	25	-	-	0	1.0	-	-	-	-	0	00	0	0	0	0	0	0	2	0	0	1	0	0.0	00	00	00	5191252	374002
75	632	10	65	16	-	35	-	-	0	1.0	-	-	-	-	0	00	0	0	0	0	0	0	2	0	0	6	0	0.0	00	00	00	5191656	374460
76	610	8	90	30	-	25	-	-	1	0.5	-	-	-	-	0	00	0	0	0	0	0	0	0	0	4	0	0.0	00	00	00	5191092	375425	
77	421	8	75	50	-	*	-	-	0	*	-	-	-	-	0	00	0	0	0	0	0	0	0	0	4	0	0.0	00	00	00	5190320	375717	
78	407	6	125	16	-	23	-	-	0	1.0	-	-	-	-	0	00	0	0	0	0	0	0	0	0	1	0	0.0	00	00	00	5190700	376768	
79	417	6	40	6	-	8	-	-	0	0.0	-	-	-	-	0	00	0	0	0	0	0	0	0	0	1	0	0.0	00	00	00	5192048	376962	
80	204	6	50	6	-	10	-	-	0	0.0	-	-	-	-	0	00	0	0	0	0	0	0	0	0	1	0	0.0	00	00	00	5192524	378009	
81	418	6	100	6	-	15	-	-	0	6.0	-	-	-	-	0	00	0	0	0	0	0	0	0	0	1	0	0.0	00	00	00	5190328	378515	
82	216	*	*	*	-	*	-	-	0	*	-	-	-	-	0	00	0	0	0	0	0	0	0	0	4	0	0.0	00	00	00	5191728	378895	
83	217	6	70	10	-	12	-	-	0	0.5	-	-	-	-	0	00	0	0	0	0	0	0	0	0	1	0	0.0	00	00	00	5190664	380058	
84	9	8	50	26	-	8	-	-	0	*	-	-	-	-	0	00	0	0	0	0	0	0	0	0	4	0	0.0	00	00	00	5191852	380667	
85	11	4	60	14	-	5	-	-	0	1.0	-	-	-	-	0	00	0	0	0	0	0	0	0	0	4	0	0.0	00	00	00	5190368	381657	
86	617	8	50	16	-	23	-	-	0	0.5	-	-	-	-	0	00	0	0	0	0	0	0	0	0	1	0	0.0	00	00	00	5190144	382066	
87	206	8	75	10	-	15	-	-	0	*	-	-	-	-	0	00	0	0	0	0	0	0	0	0	1	0	0.0	00	00	00	5191528	382391	
88	401	8	40	6	-	8	-	-	0	0.0	-	-	-	-	0	00	0	0	0	0	0	0	0	0	1	0	0.0	00	00	00	5192028	382437	
89	203	6	90	6	-	20	-	-	2	0.0	-	-	-	-	0	00	0	0	0	0	0	0	0	0	1	0	0.0	00	00	00	5190712	382757	
90	202	6	50	16	-	10	-	-	0	0.0	-	-	-	-	0	00	0	0	0	0	0	0	0	0	1	0	0.0	00	00	00	5190020	383111	
91	219	8	40	30	-	6	-	-	0	*	-	-	-	-	0	00	0	0	0	0	0	0	0	0	4	0	0.0	00	00	00	5192248	383718	
92	644	8	100	20	-	0	-	-	0	1.0	-	-	-	-	0	00	0	0	0	0	0	0	2	0	0	1	0	0.0	00	00	00	5187312	367034
93	643	8	65	10	-	0	-	-	0	1.0	-	-	-	-	0	00	0	0	0	0	0	0	2	0	0	6	0	0.0	00	00	00	5189364	367747
94	18	20	90	8	-	30	-	-	0	1.0	-	-	-	-	0	00	0	0	0	0	0	0	2	0	0	1	0	0.0	00	00	00	5188804	368827

## RESULTATS D ANALYSE

## CARACTERISTIQUES DE L ECHANTILLON

NUMERO NOUV.	ANC.	CU	ZN	PB	CO	NI	AG	MN	MO	U	SB	SN	W	AU	P	L	N	V	T	R	E	C	C	T	G	C	PH	EC	M	J	COORDONNEES	
															OR	RA	AI	AE	PU	YO	YR	RO	CO	NO	ND	EST						
1	825	16	125	16	-	25	-	-	0	3.0	-	-	-	-	0	00	0	0	0	0	0	2	0	0	1	0	0.0	00	00	00	5203256	377381
2	826	16	180	40	-	17	-	-	0	2.0	-	-	-	-	0	00	0	0	0	0	0	2	2	0	4	0	0.0	00	00	00	5203312	378834
3	838	16	90	8	-	32	-	-	0	4.0	-	-	-	-	0	00	0	0	0	0	0	2	0	0	6	0	0.0	00	00	00	5204272	379558
4	827	16	125	50	-	31	-	-	1	2.0	-	-	-	-	0	00	0	0	0	0	0	2	0	0	1	0	0.0	00	00	00	5203252	380428
5	839	30	200	36	-	40	-	-	0	2.0	-	-	-	-	0	00	0	0	0	0	0	2	0	0	6	0	0.0	00	00	00	5204592	360866
6	840	30	180	130	-	25	-	-	0	0.5	-	-	-	-	0	00	0	0	0	0	0	2	0	1	0	0.0	00	00	00	5204312	381758	
7	841	6	90	30	-	13	-	-	0	2.0	-	-	-	-	0	00	0	0	0	0	0	2	0	1	0	0.0	00	00	00	5203604	382096	
8	842	40	360	30	-	32	-	-	1	1.0	-	-	-	-	0	00	0	0	0	0	0	2	0	0	4	0	0.0	00	00	00	5204848	384173
9	843	40	180	36	-	18	-	-	1	2.0	-	-	-	-	0	00	0	0	0	0	0	2	0	0	4	0	0.0	00	00	00	5205224	384820
10	855	6	90	6	-	16	-	-	0	*	-	-	-	-	0	00	0	0	0	0	0	2	0	0	1	0	0.0	00	00	00	5199356	370210
11	835	10	75	36	-	15	-	-	0	2.0	-	-	-	-	0	00	0	0	0	0	0	2	0	0	6	0	0.0	00	00	00	5200260	371280
12	833	30	250	100	-	28	-	-	1	3.0	-	-	-	-	0	00	0	0	0	0	0	2	0	0	6	0	0.0	00	00	00	5200244	371346
13	836	6	125	10	-	40	-	-	0	6.0	-	-	-	-	0	00	0	0	0	0	0	2	0	0	1	0	0.0	00	00	00	5200920	372977
14	837	20	100	16	-	140	-	-	0	2.0	-	-	-	-	0	00	0	0	0	0	0	0	0	0	1	0	0.0	00	00	00	5201512	373070
15	823	20	125	16	-	30	-	-	0	*	-	-	-	-	0	00	0	0	0	0	0	2	0	0	6	0	0.0	00	00	00	5201536	374262
16	824	6	40	10	-	23	-	-	1	1.0	-	-	-	-	0	00	0	0	0	0	0	2	0	0	4	0	0.0	00	00	00	5201624	375461
17	830	16	125	10	-	35	-	-	0	4.0	-	-	-	-	0	00	0	0	0	0	0	2	0	0	6	0	0.0	00	00	00	5201820	377121
18	831	30	140	16	-	50	-	-	0	1.0	-	-	-	-	0	00	0	0	0	0	0	2	0	0	6	0	0.0	00	00	00	5200412	377244
19	814	20	90	16	-	40	-	-	0	3.0	-	-	-	-	0	00	0	0	0	0	0	2	0	0	6	0	0.0	00	00	00	5200056	378568
20	828	16	125	20	-	30	-	-	0	3.0	-	-	-	-	0	00	0	0	0	0	0	2	0	0	6	0	0.0	00	00	00	5201912	378998
21	853	20	125	16	-	35	-	-	0	2.0	-	-	-	-	0	00	0	0	0	0	0	2	0	0	6	0	0.0	00	00	00	5199172	379556
22	815	16	65	40	-	25	-	-	0	2.0	-	-	-	-	0	00	0	0	0	0	0	2	0	0	6	0	0.0	00	00	00	5200060	380119
23	829	6	40	4	-	8	-	-	0	0.0	-	-	-	-	0	00	0	0	0	0	0	2	0	0	6	0	0.0	00	00	00	5201272	380440
24	850	10	180	90	-	23	-	-	0	2.0	-	-	-	-	0	00	0	0	0	0	0	2	0	0	4	0	0.0	00	00	00	5200900	381484
25	816	16	90	20	-	46	-	-	1	2.0	-	-	-	-	0	00	0	0	0	0	0	2	0	0	6	0	0.0	00	00	00	5200068	382044
26	849	0	60	2	-	12	-	-	0	1.0	-	-	-	-	0	00	0	0	0	0	0	2	0	0	6	0	0.0	00	00	00	5200092	383565
27	851	10	125	125	-	28	-	-	1	0.5	-	-	-	-	0	00	0	0	0	0	0	0	0	6	0	0.0	00	00	00	5199016	383602	
28	846	6	50	6	-	10	-	-	0	0.5	-	-	-	-	0	00	0	0	0	0	0	2	0	0	1	0	0.0	00	00	00	5201528	383966
29	848	0	50	2	-	15	-	-	0	0.5	-	-	-	-	0	00	0	0	0	0	0	2	0	0	1	0	0.0	00	00	00	5200520	384662
30	847	0	75	4	-	8	-	-	0	1.0	-	-	-	-	0	00	0	0	0	0	0	2	0	0	1	0	0.0	00	00	00	5200808	385441
31	856	6	90	16	-	20	-	-	0	0.5	-	-	-	-	0	00	0	0	0	0	0	2	0	0	6	0	0.0	00	00	00	5197932	386269
32	806	10	65	6	-	25	-	-	1	0.5	-	-	-	-	0	00	0	0	0	0	0	2	2	0	6	0	0.0	00	00	00	5197036	369007
33	804	8	90	56	-	18	-	-	1	2.0	-	-	-	-	0	00	0	0	0	0	0	0	0	0	6	0	0.0	00	00	00	5198820	369336
34	857	16	90	8	-	26	-	-	0	0.5	-	-	-	-	0	00	0	0	0	0	0	2	0	0	1	0	0.0	00	00	00	5196176	369861
35	858	20	125	20	-	35	-	-	0	1.0	-	-	-	-	0	00	0	0	0	0	0	2	0	0	6	0	0.0	00	00	00	5196448	371373
36	834	36	100	10	-	56	-	-	0	4.0	-	-	-	-	0	00	0	0	0	0	0	2	0	0	6	0	0.0	00	00	00	5197200	372561
37	850	36	100	20	-	38	-	-	0	1.0	-	-	-	-	0	00	0	0	0	0	0	2	0	0	6	0	0.0	00	00	00	5197672	373290
38	821	16	250	16	-	17	-	-	0	1.0	-	-	-	-	0	00	0	0	0	0	0	2	0	0	1	0	0.0	00	00	00	5198124	375344
39	812	20	75	16	-	40	-	-	0	2.0	-	-	-	-	0	00	0	0	0	0	0	2	0	0	6	0	0.0	00	00	00	5197184	375718
40	820	30	280	20	-	*	-	-	0	*	-	-	-	-	0	00	0	0	0	0	0	2	2	0	1	0	0.0	00	00	00	5196548	377055
41	813	30	125	10	-	46	-	-	0	4.0	-	-	-	-	0	00	0	0	0	0	0	2	0	0	6	0	0.0	00	00	00	5198484	377212
42	819	8	65	6	-	20	-	-	0	0.5	-	-	-	-	0	00	0	0	0	0	0	2	0	0	6	0	0.0	00	00	00	5197160	378089
43	818	8	90	30	-	28	-	-	1	0.5	-	-	-	-	0	00	0	0	0	0	0	2	0	0	4	0	0.0	00	00	00	5198484	380463
44	854	6	75	6	-	6	-	-	0	0.5	-	-	-	-	0	00	0	0	0	0	0	2	0	0	1	0	0.0	00	00	00	5197460	380905
45	645	20	75	16	-	0	-	-	0	0.5	-	-	-	-	0	00	0	0	0	0	0	0	0	1	0	0.0	00	00	00	5196676	381386	
46	817	30	140	26	-	18	-	-	1	*	-	-	-	-	0	00	0	0	0	0	0	2	0	0	6	0	0.0	00	00	00	5198776	382405
47	13	12	80	175	-	12	-	-	0	4.0	-	-	-	-	0	00	0	0	0	0	0	0	0	0	4	0	0.0	00	00	00	5196720	383497

ZONE UTM 19

## DEFINITION DES CODES QUI CARACTERISENT LES ECHANTILLONS

PROF	LARG	NATU	VITE	TACH	RECO
PROFONDEUR DU RUISSEAU	LARGEUR DU RUISSEAU	NATURE DU FOND	VITESSE DE L EAU	TACHES D OXYDES	RECOUVREMENT CARACTERES
0) PAS D INF.	00) PAS D INF.	0) PAS D INF.	0) PAS D INFORMATION	0) PAS D INF.	0) PAS D INFORMATION
1) 1 PI.	01) 1 PI.	1) SOCLE ROCHEUX	1) SEC, HUMIDE OU BOUEUX	1) PAS DE	1) SOL RESIDUEL
2) 2 PI.	02) 2 PI.	2) GROS CAILLOUX	2) PAS DE MOUV. APPARENT	TACHES	2) DEPOTS GLACIAIRES INDETERMINES
3) 3 PI. ETC	03) 3 PI. ETC	3) SABLE & GRAVIER	3) LENT PAS DE TURBULENCE	2) ROUILLE	3) TILL A CONSTITUANTS VARIES
4) INCONNU + 3 PI.		4) SILT & ARGILE	4) COURANT MOYEN	3) VERDATRE	4) GRAVIER, SABLE & ARGILE STRATIFIES
		5) MATIERE ORGANIQUE	5) COUR. RAPIDE TURBULENCE	4) MANGANESE	5) GRAVIER, SABLE & ARGILE NON STRATIFIES
			6) RAPIDES		6) ARGILE STRATIFIEE
					7) ARGILE NON STRATIFIEE

  

EPAI	CULT	CONT	TYPE	GRAN	PH	COUL
RECOUVREMENT EPAISSEUR	TRAVAUX AGRICOLAS, ETC	CONTAMINATION	TYPE D ECHANTILLON	GRANULOMETRIE		COULEUR DE L ECHANTILLON
0) PAS D INF. PROBABLE	0) PAS D INF.	0) PAS D INF.	0) PAS D INF.	0) PAS D INF.	0.0) PAS D INF.	0) PAS D INF.
1) 0- 3 PI.	1) PAS DE TRAVAUX	1) PAS DE CONTAMINATION	1) SOUS L EAU	PEU D HUMUS	AUTRES ) 3.0	1) NOIR
2) 3-10 PI.	2) CHAMPS CULTIVES	2) REBUTS, METAUX, PNEUS, ETC	2) AU NIVEAU D EAU	1) SABLE & GRAVIER	3.1	2) ROUILLE, ROUGE BRUN, ORANGE, OCRE
3) 10-25 PI.		6) TRAVAUX ET REBUTS DE MINES	3) AU DESSUS DE L EAU	6) SILT & ARGILE	ETC	3) VERT
4) +25 PI.				RICHE EN HUMUS		4) GRIS, BLEU
5) ESTIMATION IMPOSSIBLE				4) SILT & ARGILE		5) BLANC
6) 0- 3 PI.				5) HUMUS ESSENTIELLEMENT		
7) 3-10 PI.						
8) 10-25 PI.						
9) +25 PI.						

EC = ECHANTILLONNEUR

MOIS = MOIS DE L ECHANTILLONNAGE

JOUR = JOUR DE L ECHANTILLONNAGE

## DEFINITION DES CODES EMPLOYES POUR LES RESULTATS D'ANALYSE

## RESULTATS EXPRIMES EN PPM

0 NON DECELE  
 999 PLUS DE 1000 PPM  
 \* ECHANTILLON EPUISE  
 - NON ANALYSE







## DEFINITION DES CODES QUI CARACTERISENT LES ECHANTILLONS

PROF	LARG	NATU	VITE	TACH	RECO
PROFONDEUR DU RUISSEAU	LARGEUR DU RUISSEAU	NATURE DU FCND	VITESSE DE L EAU	TACHES D OXYDES	RECouvrement CARACTERES
0) PAS D INF.	00) PAS D INF.	0) PAS D INF.	0) PAS D INFORMATION	0) PAS D INF.	0) PAS D INFORMATION
1) 1 PI.	01) 1 PI.	1) SOCLE ROCHEUX	1) SEC, HUMIDE OU BOUEUX	1) PAS DE TACHES	1) SOL RESIDUEL
2) 2 PI.	02) 2 PI.	2) GROS CAILLOUX	2) PAS DE MOUV. APPARENT	2) ROUILLE	2) DEPOTS GLACIAIRES INDETERMINEES
3) 3 PI. ETC	03) 3 PI. ETC	3) SABLE & GRAVIER	3) LENT PAS DE TURBULENCE	3) VERDATRE	3) TILL A CONSTITUANTS VARIES
9) INCONNU + 3 PI.		4) SILT & ARGILE	4) COURANT MOYEN	4) MANGANESE	4) GRAVIER, SABLE & ARGILE STRATIFIES
		5) MATIERE ORGANIQUE	5) COUR. RAPIDE TURBULENCE		5) GRAVIER, SABLE & ARGILE NON STRATIFIES
			6) RAPIDES		6) ARGILE STRATIFIEE
					7) ARGILE NON STRATIFIEE

EPAI	CULT	CCNT	TYPE	GRAN	PH	COUL
RECouvrement EPAISSEUR	TRAVAUX AGRICOLES, ETC	CONTAMINATION	TYPE D ECHANTILLON	GRANULOMETRIE		COULEUR DE L ECHANTILLON
0) PAS D INF. PROBABLE	0) PAS D INF.	0) PAS D INF.	0) PAS D INF.	0) PAS D INF.	0.0) PAS D INF.	0) PAS D INF.
1) 0- 3 PI.	1) PAS DE TRAVAUX	1) PAS DE CONTAMINATION	1) SOUS L EAU	PEU D HUMUS	AUTRES ) 3.0	1) NOIR
2) 3-10 PI.	2) CHAMPS CULTIVES	2) REBUTS, METAUX, PNEUS, ETC	2) AU NIVEAU D EAU	1) SABLE & GRAVIER	3.1	2) ROUILLE, ROUGE BRUN, ORANGE, CCFE
3) 10-25 PI.		6) TRAVAUX ET REBUTS DE MINES	3) AU DESSUS DE L EAU	6) SILT & ARGILE	3.2	3) VERT
4) +25 PI.					ETC	4) GRIS, BLEU
5) ESTIMATION IMPOSSIBLE				RICHE EN HUMUS		5) BLANC
INCERTAIN				4) SILT & ARGILE		
6) 0- 3 PI.				5) HUMUS ESSENTIELLEMENT		
7) 3-10 PI.						
8) 10-25 PI.						
9) +25 PI.						

EC = ECHANTILLONNEUR

MOIS = MOIS DE L ECHANTILLONNAGE

JOUR = JOUR DE L ECHANTILLONNAGE

## DEFINITION DES CODES EMPLOYES POUR LES RESULTATS D ANALYSE

## RESULTATS EXPRIMES EN PPM

- 0 NON DECELE
- 999 PLUS DE 1000 PPM
- \* ECHANTILLON EPUISE
- NON ANALYSE

1967





## RESULTATS D'ANALYSE

## CARACTERISTIQUES DE L'ECHANTILLON

NUMERO NOUV.	ANC.	CU	ZN	PB	CO	NI	AG	MN	MO	U	SB	SN	W	AU	CARACTERISTIQUES DE L'ECHANTILLON																	
															PL	NV	TR	EC	CT	GC	PH	EC	M	J	CCGRDGNNEES							
															RA	AA	IA	EP	UD	YR	OR	TT	CC	AL	NP	AU	IG	UR	NCRD	EST.		
95	213	24	80	16	-	-	-	-	0	3.0	-	-	-	-	0	00	0	0	0	0	0	2	0	0	6	0	0.0	00	00	00	5189284	357164
96	218	16	90	30	-	-	-	-	1	0.5	-	-	-	-	0	00	0	0	0	0	0	0	0	0	1	0	0.0	00	00	00	5187612	358660
97	214	20	60	20	-	-	-	-	0	1.0	-	-	-	-	0	00	0	0	0	0	0	2	0	0	6	0	0.0	00	00	00	5189284	358705
98	205	4	25	64	-	-	-	-	0	2.0	-	-	-	-	0	00	0	0	0	0	0	0	0	4	0	0.0	00	00	00	5187652	360198	
99	303	24	75	20	-	-	-	-	0	*	-	-	-	-	0	00	0	0	0	0	0	2	0	0	6	0	0.0	00	00	00	5189232	360271
100	305	4	50	16	-	-	-	-	0	0.0	-	-	-	-	0	00	0	0	0	0	0	0	0	4	0	0.0	00	00	00	5187612	361848	
101	304	6	60	64	-	-	-	-	*	*	-	-	-	-	0	00	0	0	0	0	0	0	0	4	0	0.0	00	00	00	5189272	361913	
102	100	16	75	24	-	-	-	-	0	2.0	-	-	-	-	0	00	0	0	0	0	0	2	0	0	6	0	0.0	00	00	00	5189224	363428
103	4	6	90	30	-	-	-	-	0	0.5	-	-	-	-	0	00	0	0	0	0	0	0	0	1	0	0.0	00	00	00	5187572	364960	
104	302	24	90	36	-	-	-	-	2	2.0	-	-	-	-	0	00	0	0	0	0	0	2	2	0	1	0	0.0	00	00	00	5189208	365005
105	12	16	60	40	-	-	-	-	*	*	-	-	-	-	0	00	0	0	0	0	0	2	0	0	1	0	0.0	00	00	00	5187540	366526
106	319	2	50	40	-	-	-	-	0	1.0	-	-	-	-	0	00	0	0	0	0	0	2	0	0	6	0	0.0	00	00	00	5186132	347489
107	321	2	60	140	-	-	-	-	0	1.0	-	-	-	-	0	00	0	0	0	0	0	0	0	4	0	0.0	00	00	00	5184680	347516	
108	322	6	50	30	-	-	-	-	0	3.0	-	-	-	-	0	00	0	0	0	0	0	2	0	0	6	0	0.0	00	00	00	5184544	349054
109	320	10	20	10	-	-	-	-	0	0.5	-	-	-	-	0	00	0	0	0	0	0	2	0	0	6	0	0.0	00	00	00	5186160	349091
110	323	10	50	30	-	-	-	-	0	2.0	-	-	-	-	0	00	0	0	0	0	0	0	0	4	0	0.0	00	00	00	5184564	350731	
111	342	16	140	20	-	-	-	-	0	*	-	-	-	-	0	00	0	0	0	0	0	2	0	0	1	0	0.0	00	00	00	5186052	350855
112	341	20	50	20	-	-	-	-	0	4.0	-	-	-	-	0	00	0	0	0	0	0	2	0	0	1	0	0.0	00	00	00	5186104	352248
113	338	6	75	24	-	-	-	-	0	0.5	-	-	-	-	0	00	0	0	0	0	0	2	0	0	1	0	0.0	00	00	00	5184560	352307
114	337	20	60	30	-	-	-	-	0	0.5	-	-	-	-	0	00	0	0	0	0	0	2	0	0	1	0	0.0	00	00	00	5186132	353970
115	226	50	90	40	-	-	-	-	0	0.0	-	-	-	-	0	00	0	0	0	0	0	0	0	6	0	0.0	00	00	00	5186068	355470	
116	110	30	90	16	-	-	-	-	0	2.0	-	-	-	-	0	00	0	0	0	0	0	2	0	0	6	0	0.0	00	00	00	5184448	358580
117	111	10	90	30	-	-	-	-	0	1.0	-	-	-	-	0	00	0	0	0	0	0	2	0	0	1	0	0.0	00	00	00	5186040	358628
118	114	6	90	16	-	-	-	-	2	*	-	-	-	-	0	00	0	0	0	0	0	2	0	0	6	0	0.0	00	00	00	5184460	360162
119	115	16	90	24	-	-	-	-	0	1.0	-	-	-	-	0	00	0	0	0	0	0	2	0	0	1	0	0.0	00	00	00	5184420	361748
120	117	10	90	50	-	-	-	-	0	1.0	-	-	-	-	0	00	0	0	0	0	0	2	0	0	1	0	0.0	00	00	00	5186008	361770
121	10	6	25	60	-	-	-	-	0	*	-	-	-	-	0	00	0	0	0	0	0	0	0	4	0	0.0	00	00	00	5184380	363318	
122	116	6	50	56	-	-	-	-	1	1.0	-	-	-	-	0	00	0	0	0	0	0	2	0	0	4	0	0.0	00	00	00	5185980	363351
123	15	10	50	70	-	-	-	-	0	0.5	-	-	-	-	0	00	0	0	0	0	0	0	2	0	4	0	0.0	00	00	00	5184376	364915
124	16	30	25	36	-	-	-	-	*	*	-	-	-	-	0	00	0	0	0	0	0	0	0	4	0	0.0	00	00	00	5185948	364926	
125	14	10	25	30	-	-	-	-	0	0.5	-	-	-	-	0	00	0	0	0	0	0	2	0	0	1	0	0.0	00	00	00	5184340	366419
126	13	6	50	16	-	-	-	-	0	0.5	-	-	-	-	0	00	0	0	0	0	0	0	2	0	1	0	0.0	00	00	00	5185936	366458
127	328	8	50	36	-	-	-	-	0	0.0	-	-	-	-	0	00	0	0	0	0	0	0	0	1	0	0.0	00	00	00	5181488	349021	
128	325	10	60	84	-	-	-	-	*	1.0	-	-	-	-	0	00	0	0	0	0	0	0	0	4	0	0.0	00	00	00	5182972	349036	
129	327	6	70	40	-	-	-	-	0	*	-	-	-	-	0	00	0	0	0	0	0	2	0	0	4	0	0.0	00	00	00	5181424	350666
130	324	10	60	24	-	-	-	-	0	*	-	-	-	-	0	00	0	0	0	0	0	2	0	0	4	0	0.0	00	00	00	5183008	350684
131	326	8	65	40	-	-	-	-	0	0.5	-	-	-	-	0	00	0	0	0	0	0	0	0	1	0	0.0	00	00	00	5181400	352262	
132	339	24	60	36	-	-	-	-	0	*	-	-	-	-	0	00	0	0	0	0	0	2	0	0	6	0	0.0	00	00	00	5182968	352324
133	103	20	60	20	-	-	-	-	0	0.5	-	-	-	-	0	00	0	0	0	0	0	2	0	0	4	0	0.0	00	00	00	5181340	355428
134	108	20	65	20	-	-	-	-	0	1.0	-	-	-	-	0	00	0	0	0	0	0	2	0	0	6	0	0.0	00	00	00	5181300	357034
135	112	10	60	16	-	-	-	-	0	0.0	-	-	-	-	0	00	0	0	0	0	0	2	0	0	6	0	0.0	00	00	00	5181244	358524
136	2	20	75	16	-	-	-	-	0	0.5	-	-	-	-	0	00	0	0	0	0	0	2	0	0	6	0	0.0	00	00	00	5181172	360099
137	113	6	60	16	-	-	-	-	1	2.0	-	-	-	-	0	00	0	0	0	0	0	2	0	0	1	0	0.0	00	00	00	5182808	360133
138	3	10	100	40	-	-	-	-	*	*	-	-	-	-	0	00	0	0	0	0	0	0	0	1	0	0.0	00	00	00	5181136	361644	
139	11	10	60	30	-	-	-	-	0	1.0	-	-	-	-	0	00	0	0	0	0	0	2	0	0	1	0	0.0	00	00	00	5182760	361698
140	7	2	25	20	-	-	-	-	1	0.0	-	-	-	-	0	00	0	0	0	0	0	0	0	4	0	0.0	00	00	00	5181096	363250	
141	8	4	60	50	-	-	-	-	8	0.5	-	-	-	-	0	00	0	0	0	0	0	0	0	1	0	0.0	00	00	00	5182736	363279	

ZONE UTM 19

## RESULTATS D ANALYSE

## CARACTERISTIQUES DE L ECHANTILLON

NUMERO NOUV. ANC.	CU	ZN	PB	CO	NI	AG	MN	MO	U	SB	SN	W	AU	PL	NV	TR	EC	CT	G	C	PH	EC	M	J	COORDONNEES		
														RA	AI	AE	PU	DY	RO	G	O	AGRO	EST				
														OR	TT	CC	AL	NP	AU	I	U						
														FG	UE	HO	IT	TEN	L	S	R						
ZONE UTM 19																											
142	119	16	90	36	-	-	-	0	0.5	-	-	-	-	0	00	0	0	0	0	0	0	0	0	0	0	5181092	364846
143	9	16	25	40	-	-	-	4	1.0	-	-	-	-	0	00	0	0	0	0	0	0	0	0	0	5182700	364870	
144	223	4	60	16	-	-	-	0	0.5	-	-	-	-	0	00	0	0	0	0	0	0	0	0	0	5181072	366362	
145	224	2	15	16	-	-	-	1	1.0	-	-	-	-	0	00	0	0	0	0	0	0	0	0	0	5182656	366415	
146	331	10	60	16	-	-	-	1	0.0	-	-	-	-	0	00	0	0	0	0	0	0	0	0	0	5179900	349018	
147	330	40	90	90	-	-	-	*	0.5	-	-	-	-	0	00	0	0	0	0	0	0	0	0	0	5179780	350581	
148	329	6	60	36	-	-	-	0	*	-	-	-	-	0	00	0	0	0	0	0	0	0	0	0	5179800	352245	
149	106	16	75	20	-	-	-	0	1.0	-	-	-	-	0	00	0	0	0	0	0	0	0	0	0	5179776	353774	
150	109	4	40	16	-	-	-	0	1.0	-	-	-	-	0	00	0	0	0	0	0	0	0	0	0	5179696	356940	
151	1	24	50	30	-	-	-	0	2.0	-	-	-	-	0	00	0	0	0	0	0	0	0	0	0	5179684	358476	
152	6	6	40	24	-	-	-	1	0.5	-	-	-	-	0	00	0	0	0	0	0	0	0	0	0	5179624	360086	
153	5	4	15	20	-	-	-	0	0.5	-	-	-	-	0	00	0	0	0	0	0	0	0	0	0	5179560	361576	
154	219	4	50	10	-	-	-	0	1.0	-	-	-	-	0	00	0	0	0	0	0	0	0	0	0	5179568	363198	
155	220	16	90	30	-	-	-	0	4.0	-	-	-	-	0	00	0	0	0	0	0	0	0	0	0	5179532	364774	
156	118	10	60	20	-	-	-	0	*	-	-	-	-	0	00	0	0	0	0	0	0	0	0	0	5179480	366524	

## DEFINITION DES CODES QUI CARACTERISENT LES ECHANTILLONS

PROF	LARG	NATU	VITE	TACH	RECC
PROFONDEUR DU RUISSEAU	LARGEUR DU RUISSEAU	NATURE DU FCND	VITESSE DE L EAU	TACHES D OXYDES	RECOURVEMENT CARACTERES
0) PAS D INF.	00) PAS D INF.	0) PAS D INF.	0) PAS D INFORMATION	0) PAS D INF.	0) PAS D INFORMATION
1) 1 PI.	01) 1 PI.	1) SOCLE ROCHEUX	1) SEC, HUMIDE OU BOUEUX	1) PAS DE TACHES	1) SCL RESIDUEL
2) 2 PI.	02) 2 PI.	2) GROS CAILLoux	2) PAS DE MOUV. APPARENT	2) ROUILLE	2) DEPOTS GLACIAIRES INDETERMINEES
3) 3 PI. ETC	03) 3 PI. ETC	3) SABLE & GRAVIER	3) LENT PAS DE TURBULENCE	3) VERCATRE	3) TILL A CONSTITUANTS VARIES
9) INCONNU + 3 PI.		4) SILT & ARGILE	4) COURANT MOYEN	4) MANGANESE	4) GRAVIER, SABLE & ARGILE STRATIFIEES
		5) MATIERE ORGANIQUE	5) COUR. RAPIDE TURBULENCE		5) GRAVIER, SABLE & ARGILE NON STRATIFIEES
			6) RAPIDES		6) ARGILE STRATIFIEE
					7) ARGILE NON STRATIFIEE

EPAI	CULT	CCNT	TYPE	GRAN	PH	COUL
RECOURVEMENT EPAISSEUR	TRAVAUX AGRICOLAS, ETC	CONTAMINATION	TYPE D ECHANTILLON	GRANULOMETRIE		CCULEUR DE L ECHANTILLON
0) PAS D INF.	0) PAS D INF.	0) PAS D INF.	0) PAS D INF.	0) PAS D INF.	0.0) PAS D INF.	0) PAS D INF.
PROBABLE	1) PAS DE TRAVAUX	1) PAS DE CONTAMINATION	1) SOUS L EAU	PEU D HUMUS	AUTRES ) 3.0 3.1 3.2	1) NOIR
1) 0-3 PI.	2) CHAMPS CULTIVES	2) REBUTS, METAUX, PNEUS, ETC	2) AU NIVEAU D EAU	1) SABLE & GRAVIER	ETC	2) ROUILLE, ROUGE, BRUN, ORANGE, CCRE
2) 3-10 PI.		6) TRAVAUX ET REBUTS DE MINES	3) AU DESSUS DE L EAU	6) SILT & ARGILE		3) VERT
3) 10-25 PI.				RICHE EN HUMUS		4) GRIS, BLEU
4) +25 PI.				4) SILT & ARGILE		5) BLANC
5) ESTIMATION IMPOSSIBLE				5) HUMUS ESSENTIELLEMENT		
INCERTAIN						
6) 0-3 PI.						
7) 3-10 PI.						
8) 10-25 PI.						
9) +25 PI.						

EC = ECHANTILLONNEUR  
 MOIS = MOIS DE L ECHANTILLONNAGE  
 JOUR = JOUR DE L ECHANTILLONNAGE

## DEFINITION DES CODES EMPLOYES POUR LES RESULTATS D ANALYSE

RESULTATS EXPRIMES EN PPM

0 NON DECELE  
 999 PLUS DE 1000 PPM  
 \* ECHANTILLON EPUISE  
 - NON ANALYSE

1968

RESULTATS D'ANALYSE

CARACTERISTIQUES DE L'ECHANTILLON

NUMERO		RESULTATS D'ANALYSE											CARACTERISTIQUES DE L'ECHANTILLON											CCCRDNNEES								
NOUV.	ANC.	CU	ZN	PB	CO	NI	AG	MN	MO	U	SB	SN	W	AU	PL	N	V	T	R	E	C	T	G	C	PH	EC	M	J	CCCRDN	NEES		
															RA	AI	EA	EP	UO	YO	RO	OR	TT	CC	AL	NP	PA	U	IG	IG	ACRD	EST
															FG	UE	HO	IT	TEN	L												
ZONE UTM 19																																
1	1	16	50	50	28	45	0.3	430	0	1.0	-	0	0.0	0.0	0	00	0	0	0	C	C	0	0	0	0	0	0.0	00	00	00	5177952	348048
2	8	20	60	50	13	25	0.3	800	0	0.5	-	0	0.0	0.0	0	00	0	0	0	C	C	0	0	0	0	0	0.0	00	00	00	5175852	348197
3	2	16	100	60	38	38	0.2	6800	1	0.5	-	0	0.0	0.0	0	00	0	0	0	C	C	0	0	0	0	0	0.0	00	00	00	5178196	350639
4	5	20	90	40	23	35	0.4	555	0	1.0	-	0	0.0	0.0	0	00	0	0	0	C	C	0	0	0	0	0	0.0	00	00	00	5176116	350123
5	3	10	40	20	25	15	0.0	405	0	0.5	-	0	0.0	0.0	0	00	0	0	0	C	C	0	0	0	0	0	0.0	00	00	00	5178220	352037
6	4	20	75	70	16	16	*	*	0	*	-	*	*	*	0	00	0	0	0	C	C	0	0	0	0	0	0.0	00	00	00	5176052	352038
7	14	16	90	50	25	38	0.4	535	0	1.0	-	0	0.0	0.0	0	00	0	0	0	C	C	0	0	0	0	0	0.0	00	00	00	5178000	354063
8	16	16	60	40	8	13	0.0	435	0	0.5	-	0	0.0	0.0	0	00	0	0	0	C	C	0	0	0	0	0	0.0	00	00	00	5175968	354304
9	15	10	90	40	23	25	0.3	2700	0	2.0	-	0	0.0	0.0	0	00	0	0	0	C	C	0	0	0	0	0	0.0	00	00	00	5176152	355811
10	13	10	25	20	18	145	0.0	265	0	0.5	-	0	0.0	0.0	0	00	0	0	0	C	C	0	0	0	0	0	0.0	00	00	00	5178044	355932
11	104	6	50	44	13	30	0.0	765	0	1.0	-	*	0.0	0.0	0	00	0	0	0	C	C	0	0	0	0	0	0.0	00	00	00	5175948	357908
12	102	10	40	24	15	53	0.6	840	0	1.0	-	0	0.0	0.0	0	00	0	0	0	C	C	0	0	0	0	0	0.0	00	00	00	5177908	358125
13	25	20	50	16	13	30	0.4	1085	0	1.0	-	0	0.0	0.0	0	00	0	0	0	C	C	0	0	0	0	0	0.0	00	00	00	5175960	360046
14	101	10	40	24	13	35	0.0	700	0	0.5	-	0	0.0	0.0	0	00	0	0	0	C	C	0	0	0	0	0	0.0	00	00	00	5177996	360111
15	27	6	60	20	*	*	*	*	0	*	-	*	*	*	0	00	0	0	0	C	C	0	0	0	0	0	0.0	00	00	00	5177996	364176
16	10	30	90	44	25	33	0.6	1725	0	2.0	-	0	0.0	0.0	0	00	0	0	0	C	C	0	0	0	0	0	0.0	00	00	00	5172088	348067
17	9	16	60	50	18	23	0.0	2825	0	1.0	-	0	0.0	0.0	0	00	0	0	0	C	C	0	0	0	0	0	0.0	00	00	00	5173940	348071
18	6	16	90	50	18	30	0.3	805	0	1.0	-	0	0.0	0.0	0	00	0	0	0	C	C	0	0	0	0	0	0.0	00	00	00	5174000	350035
19	19	16	40	30	13	18	0.0	465	0	1.0	-	0	0.0	0.0	0	00	0	0	0	C	C	0	0	0	0	0	0.0	00	00	00	5171952	350090
20	7	16	60	40	15	25	0.5	930	0	2.0	-	0	0.0	0.0	0	00	0	0	0	C	C	0	0	0	0	0	0.0	00	00	00	5174048	352019
21	17	30	150	60	25	30	*	*	*	*	-	*	*	*	0	00	0	0	0	C	C	0	0	0	0	0	0.0	00	00	00	5172076	352067
22	24	10	90	20	20	33	0.5	1035	0	1.0	-	0	0.0	0.0	0	00	0	0	0	C	C	0	0	0	0	0	0.0	00	00	00	5174056	353817
23	103	20	50	40	18	33	0.3	535	0	5.0	-	0	0.0	0.0	0	00	0	0	0	C	C	0	0	0	0	0	0.0	00	00	00	5174024	355969
24	108	20	20	20	20	43	0.3	285	0	2.0	-	0	0.0	0.0	0	00	0	0	0	C	C	0	0	0	0	0	0.0	00	00	00	5172000	356285
25	105	10	15	20	8	13	0.0	435	0	0.5	-	0	0.0	0.0	0	00	0	0	0	C	C	0	0	0	0	0	0.0	00	00	00	5174088	358039
26	107	16	25	16	13	28	0.0	1000	0	1.0	-	0	0.0	0.0	0	00	0	0	0	C	C	0	0	0	0	0	0.0	00	00	00	5172016	358118
27	26	10	60	16	10	18	0.3	530	0	5.0	-	0	0.0	0.0	0	00	0	0	0	C	C	0	0	0	0	0	0.0	00	00	00	5174036	360010
28	111	10	60	20	13	30	0.5	4800	0	2.0	-	0	0.0	0.0	0	00	0	0	0	C	C	0	0	0	0	0	0.0	00	00	00	5172008	360075
29	203	6	25	60	18	25	0.3	595	0	0.5	-	*	0.0	0.0	0	00	0	0	0	C	C	0	0	0	0	0	0.0	00	00	00	5167940	347745
30	12	20	75	40	28	28	0.0	2580	0	2.0	-	*	0.0	0.0	0	00	0	0	0	C	C	0	0	0	0	0	0.0	00	00	00	5170184	347896
31	11	60	60	40	28	30	0.7	690	0	5.0	-	0	0.0	0.0	0	00	0	0	0	C	C	0	0	0	0	0	0.0	00	00	00	5170060	350080
32	106	10	25	24	15	25	0.0	2075	0	1.0	-	0	0.0	0.0	0	00	0	0	0	C	C	0	0	0	0	0	0.0	00	00	00	5168032	350151
33	18	20	60	40	23	28	*	*	0	1.0	-	*	*	*	0	00	0	0	0	C	C	0	0	0	0	0	0.0	00	00	00	5170028	352017
34	21	56	90	50	63	35	0.0	430	0	3.0	-	*	0.0	0.0	0	00	0	0	0	C	C	0	0	0	0	0	0.0	00	00	00	5168000	354020
35	20	20	125	40	25	33	0.3	1850	0	2.0	-	0	0.0	0.0	0	00	0	0	0	C	C	0	0	0	0	0	0.0	00	00	00	5170012	354069
36	109	10	50	50	13	33	0.3	435	0	1.0	-	0	0.0	0.0	0	00	0	0	0	C	C	0	0	0	0	0	0.0	00	00	00	5170156	355986
37	210	10	60	20	115	40	0.8	370	0	1.0	-	0	0.0	0.0	0	00	0	0	0	C	C	0	0	0	0	0	0.0	00	00	00	5168016	356043
38	209	6	90	24	25	39	0.9	1925	1	4.0	-	C	0.0	0.0	0	00	0	0	0	C	C	0	0	0	0	0	0.0	00	00	00	5168004	357797
39	110	20	90	40	28	33	1.0	2800	0	6.0	-	0	0.0	0.0	0	00	0	0	0	C	C	0	0	0	0	0	0.0	00	00	00	5170028	359739
40	202	6	25	36	13	18	0.8	205	0	1.0	-	0	0.0	0.0	0	00	0	0	0	C	C	0	0	0	0	0	0.0	00	00	00	5166092	347991
41	208	20	90	24	25	33	0.5	3500	0	2.0	-	0	0.0	0.0	0	00	0	0	0	C	C	0	0	0	0	0	0.0	00	00	00	5163960	348194
42	205	10	125	60	55	33	0.7	5300	0	1.0	-	0	0.0	0.0	0	00	0	0	0	C	C	0	0	0	0	0	0.0	00	00	00	5165980	350005
43	206	10	25	20	13	25	0.8	220	0	1.0	-	0	0.0	0.0	0	00	0	0	0	C	C	0	0	0	0	0	0.0	00	00	00	5164004	350022
44	207																															

## RESULTATS D ANALYSE

## CARACTERISTIQUES DE L ECHANTILLON

NUMERO		RESULTATS D ANALYSE											CARACTERISTIQUES DE L ECHANTILLON																			
NOUV.	ANC.	CU	ZN	PB	CD	NI	AG	MN	MO	U	SB	SN	W	AU	P	L	N	V	T	R	E	C	T	G	C	PH	EC	M	J	COORDONNEES		
															RA	AI	AE	PU	OY	RO											NORD	EST
															OR	TT	CC	AL	NP	AU												
															FG	UE	HO	IT	TEN	L												

ZONE UTM 19

48	211	10	50	20	13	33	0.6	730	0	4.0	-	0	0.0	0.0	0.00	0	0	0	0	0	0	0	0	0	0	0	0.0	00	00	00	5163924	358161
----	-----	----	----	----	----	----	-----	-----	---	-----	---	---	-----	-----	------	---	---	---	---	---	---	---	---	---	---	---	-----	----	----	----	---------	--------



## DEFINITION DES CODES QUI CARACTERISENT LES ECHANTILLONS

PROF	LARG	NATU	VITE	TACH	RECO
PROFONDEUR DU RUISSEAU	LARGEUR DU RUISSEAU	NATURE DU FOND	VITESSE DE L EAU	TACHES D OXYDES	RECouvreMENT CARACTERES
0) PAS D INF.	00) PAS D INF.	0) PAS D INF.	0) PAS D INFORMATION	0) PAS D INF.	0) PAS D INFORMATION
1) 1 PI.	01) 1 PI.	1) SOCLE ROCHEUX	1) SEC, HUMIDE CU BOUEUX	1) PAS DE TACHES	1) SOL RESIDUEL
2) 2 PI.	02) 2 PI.	2) GROS CAILLoux	2) PAS DE MOUV. APPARENT	2) ROUILLE	2) DEPOTS GLACIAIRES INDETERMINES
3) 3 PI. ETC	03) 3 PI. ETC	3) SABLE & GRAVIER	3) LENT PAS DE TURBULENCE	3) VERDATRE	3) TILL A CONSTITUANTS VARIES
9) INCONNU + 3 PI.		4) SILT & ARGILE	4) COURANT MOYEN	4) MANGANESE	4) GRAVIER, SABLE & ARGILE STRATIFIES
		5) MATIERE ORGANIQUE	5) COUR. RAPIDE TURBULENCE		5) GRAVIER, SABLE & ARGILE NON STRATIFIES
			6) RAPIDES		6) ARGILE STRATIFIEE
					7) ARGILE NON STRATIFIEE

  

EPAI	CULT	CONT	TYPE	GRAN	PH	COUL
RECouvreMENT EPAISSEUR	TRAVAUX AGRICOLLES, ETC	CONTAMINATION	TYPE D ECHANTILLON	GRANULOMETRIE		COULEUR DE L ECHANTILLON
0) PAS D INF. PROBABLE	0) PAS D INF. 1) PAS DE TRAVAUX	0) PAS D INF. 1) PAS DE CONTAMINATION	0) PAS D INF. 1) SCUS L EAU	0) PAS D INF. PEU D HUMUS	0.0) PAS D INF. AUTRES )	0) PAS D INF. 1) NOIR
1) 0- 3 PI.	2) CHAMPS CULTIVES	2) REBUTS, METAUX, PNEUS, ETC	2) AU NIVEAU D EAU	1) SABLE & GRAVIER	3.0 3.1 3.2	2) ROUILLE, ROUGE BRUN, CRANEE, OCRE
2) 3-10 PI.		6) TRAVAUX ET REBUTS DE MINES	3) AU DESSUS DE L EAU	6) SILT & ARGILE	ETC	3) VERT
3) 10-25 PI.				RICHE EN HUMUS		4) GRIS, BLEU
4) +25 PI.				4) SILT & ARGILE		5) BLANC
5) ESTIMATION IMPOSSIBLE				5) HUMUS ESSENTIELLEMENT		
INCERTAIN						
6) 0- 3 PI.						
7) 3-10 PI.						
8) 10-25 PI.						
9) +25 PI.						

EC = ECHANTILLONNEUR

MOIS = MOIS DE L ECHANTILLONNAGE

JOUR = JOUR DE L ECHANTILLONNAGE

## DEFINITION DES CODES EMPLOYES POUR LES RESULTATS D ANALYSE

## RESULTATS EXPRIMES EN PPM

0 NON DECELE  
 999 PLUS DE 1000 PPM  
 \* ECHANTILLON EPUISE  
 - NON ANALYSE

1969

## RESULTATS D'ANALYSE

## CARACTERISTIQUES DE L'ECHANTILLON

NUMERO NOUV. ANC.	CU	ZN	PB	CD	NI	AG	MN	MO	U	SB	SN	W	AU	P	L	N	V	T	R	E	C	T	G	C	PH	EC	M	J	COORDONNEES				
														RA	OR	FG	AA	TT	UE	IA	HC	EA	PU	CA	AL	LN	NP	PA	U	RO	PH	EC	M
1	3034	6	250	20	8	0	0.6	4416	2	2.0	20	0	0.0	0.0	1	03	4	3	1	3	7	2	1	1	1	4.5	00	06	25	5178972	366146		
2	3033	10	90	20	8	20	0.6	1813	0	2.0	13	0	0.0	0.0	1	01	4	3	1	3	7	2	1	1	4	2	4.5	00	06	25	5178652	366154	
3	3032	10	75	24	10	23	0.4	269	0	7.0	12	0	0.0	0.0	1	03	2	3	1	3	8	1	1	1	1	6.0	00	06	25	5179512	367092		
4	3147	6	75	10	*	*	*	*	0	0.5	*	*	*	*	2	07	2	4	1	0	0	2	1	1	1	2	5.0	00	00	00	5173740	362564	
5	3146	4	75	6	13	20	0.6	2539	0	1.0	5	10	0.0	0.0	2	15	3	4	1	0	0	2	1	1	1	2	5.0	00	00	00	5173996	362827	
6	3145	4	90	10	*	*	*	*	0	0.5	*	*	*	*	2	07	5	4	1	0	0	2	1	1	1	4	5.0	00	00	00	5173848	363154	
7	3143	4	90	6	20	24	*	*	0	1.0	*	*	*	*	3	09	3	4	1	0	0	1	1	1	1	2	4.5	00	00	00	5173408	363394	
8	3142	2	150	10	40	30	*	*	2	*	*	*	*	*	1	12	3	4	1	0	0	1	1	1	1	2	4.5	00	00	00	5173048	363478	
9	3144	2	100	10	*	*	*	*	0	2.0	*	*	*	*	2	06	5	4	1	0	0	2	1	1	1	2	4.5	00	00	00	5173728	363501	
10	3141	4	100	16	17	23	0.8	1250	0	0.5	5	4	0.0	0.0	2	08	5	4	1	0	0	1	1	1	1	6	4	4.5	00	00	00	5172672	363572
11	3148	4	100	6	15	25	0.5	5872	0	1.0	6	10	0.0	0.0	1	01	5	3	1	0	0	1	1	1	1	2	5.0	00	00	00	5173944	363709	
12	3140	4	110	20	20	25	*	*	0	6.0	*	*	*	*	1	08	3	4	1	0	0	1	1	1	1	2	4.5	00	00	00	5172560	363869	
13	3139	0	75	20	10	17	0.5	1221	0	1.0	4	4	0.0	0.0	2	10	5	4	1	0	0	1	1	1	1	6	4	4.5	00	00	00	5172756	364177
14	2138	2	75	10	*	*	*	*	0	*	*	*	*	*	1	08	3	4	1	0	0	2	2	1	1	1	4	4.5	00	00	00	5172760	364543
15	3040	10	50	10	10	0	0.0	403	0	2.0	9	2	0.0	0.0	1	10	2	3	1	3	0	2	0	2	1	2	6.0	00	06	27	5165468	353879	
16	3039	16	75	10	8	0	0.0	900	0	2.0	11	0	0.0	0.0	1	10	2	3	0	3	0	2	0	2	1	2	5.5	00	06	27	5165952	353987	
17	3038	20	50	16	13	0	0.0	498	0	2.0	12	0	0.0	0.0	1	08	2	3	1	3	0	2	0	2	1	4	5.0	00	06	27	5166260	359276	
18	3037	24	90	16	43	0	0.4	896	0	2.0	11	0	0.0	0.0	2	08	4	3	1	0	3	2	0	2	1	2	6.0	00	06	27	5166536	359859	
19	3036	40	50	20	45	0	0.4	277	0	2.0	18	0	0.0	0.0	1	10	5	3	2	3	0	2	0	2	1	4	5.5	00	06	27	5166880	360036	
20	3035	24	50	16	30	0	0.0	485	0	2.0	11	0	0.0	0.0	1	09	4	3	2	3	0	2	0	2	4	2	6.0	00	06	27	5167280	360157	
21	3095	16	100	10	15	30	0.4	840	0	5.0	7	4	0.0	0.0	1	01	5	1	1	0	0	2	0	2	6	2	4.5	00	00	00	5159044	353952	
22	3096	6	50	6	8	17	0.0	418	0	1.0	5	10	0.0	0.0	1	01	5	2	1	0	0	1	0	1	1	4	6.0	00	00	00	5159524	353997	
23	3090	20	110	30	13	38	0.4	2536	0	2.0	13	6	0.0	0.0	2	10	2	4	1	0	0	2	2	1	1	2	5.5	00	00	00	5160852	355912	
24	3091	16	110	20	18	0	0.4	1975	0	2.0	10	8	0.0	0.0	2	05	2	4	1	0	0	2	2	1	1	4	5.5	00	00	00	5160264	356173	
25	3092	10	90	10	58	0	0.0	964	0	1.0	10	6	0.0	0.0	2	04	2	4	1	0	0	2	2	1	1	2	5.5	00	00	00	5159860	356423	
26	3087	6	60	16	55	0	0.4	838	0	1.0	9	2	0.0	0.0	1	02	5	3	1	0	0	2	0	0	1	2	5.5	00	00	00	5159744	356594	
27	3088	10	250	30	95	0	0.6	13363	3	2.0	16	0	0.0	0.0	1	02	5	2	1	0	0	1	1	1	5	1	4.5	00	00	00	5159812	357480	
28	3089	10	50	20	88	0	0.0	986	0	0.5	16	2	0.0	0.0	2	08	2	5	4	0	0	2	2	1	1	4	5.5	00	00	00	5161912	357689	
29	3079	6	100	30	30	50	0.0	3045	0	4.0	8	4	0.0	0.0	1	01	3	3	1	0	5	1	1	1	1	4	4.5	00	07	30	5159796	380989	
30	3109	6	60	10	15	100	0.5	610	0	4.0	4	6	0.0	0.0	1	10	1	4	1	1	5	1	1	2	1	2	4.5	00	08	06	5159512	381481	
31	3111	16	60	20	30	100	0.4	458	0	1.0	8	10	0.0	0.0	1	02	3	3	1	1	5	1	1	1	1	2	4.5	00	08	07	5159744	381974	
32	3110	10	40	20	15	63	0.0	305	0	1.0	5	10	0.0	0.0	1	08	2	4	1	1	5	1	1	2	1	4	4.5	00	08	06	5159324	382001	
33	3112	6	125	16	25	80	0.5	2429	0	4.0	6	6	0.0	0.0	1	04	1	1	1	0	5	1	1	3	6	2	4.5	00	08	07	5159768	382025	
34	3113	6	100	16	25	75	0.5	2969	0	2.0	9	4	0.0	0.0	1	03	3	3	1	0	5	1	1	1	1	2	4.5	00	08	07	5160072	382130	
35	3115	0	60	6	23	60	0.6	1040	0	2.0	6	6	0.0	0.0	1	07	1	4	1	0	5	1	1	1	1	2	4.5	00	08	08	5161392	382438	
36	3114	4	75	10	20	75	0.4	1246	0	1.0	6	6	0.0	0.0	1	04	1	3	1	0	5	1	1	2	1	2	4.5	00	08	08	5160972	382715	
37	3128	0	40	10	*	*	*	*	0	*	*	*	*	*	2	05	3	4	1	0	0	2	2	1	1	2	4.5	00	00	00	5155892	352693	
38	3189	24	50	16	18	20	0.4	2999	0	2.0	5	10	0.0	0.0	1	10	2	4	1	0	0	1	1	0	6	2	6.0	00	08	29	5158212	353149	
39	3162	6	40	16	8	15	0.4	455	0	1.0	0	6	0.0	0.0	1	03	4	3	1	0	0	2	0	2	6	4	6.0	00	08	12	5156872	353258	
40	3188	30	60	20	15	25	0.4	755	0	2.0	7	4	0.0	0.0	2	10	4	3	1	0	0	1	1	0	6	4	6.0	00	08	29	5157832	353324	
41	3163	2	40	30	13	10	0.4	1001	0	0.5	0	6	0.0	0.0	1	02	4	3	1	0	0	2	0	1	1	4	6.0	00	08	12	5156900	353433	
42	3186	20	50	10	17	23	0.0	858	0	1.0	7	4	0.0	0.0	2	05	5	3	1	0	0	1	1	0	6	4	5.5	00	08	29	5157204	353470	
43	3187	10	40	10	12	18	0.4	676	0	1.0	7	6	0.0	0.0	3	08	4	3	1	0	0	1	1	0	6	4	5.5	00	08	29	5157676	353541	
44	3185	16	60	16	15	20	0.5	846	0	2.0	8	6	0.0	0.0	3	05	4	3	1	0	0	1	1	1	6	4	5.5	00	08	29	5157552	353602	
45	3184	16	50	10	10	20	0.0	595	0	1.0	5	6	0.0	0.0	1	05	3	3	1	0	0	2	1	0	1	4	5.5	00	08	29	5157676	354151	
46	3183	10	25	10	12	20	0.0	605	0	2.0	4	10	0.0	0.0	1	05	2	3	1	0	0	1	1	0	6	4	6.0	00	08	29	5157168	354307	
47	3180	10	25	20	12	23	0.0	880	0	2.0	6	6	0.0	0.0	1	05	3	2	1	0	0	1	1	0	1	2	6.0	00	08	29	5157672	354572	

ZCNE UTM 19

## RESULTATS D'ANALYSE

## CARACTERISTIQUES DE L'ECHANTILLON

NUMERO NCOV. ANC.	CU	ZN	PB	CD	NI	AG	MN	MO	U	SB	SN	W	AU	P	L	N	V	T	R	E	C	T	G	C	PH	EC	M	J	COORDONNEES				
														OR	RA	AI	AE	PU	YO	RO	AL	NP	PA	U	I	U	NCRD	EST					
48	3182	6	25	16	7	15	0.0	347	0	1.0	4	10	0.0	0.0	1	05	3	2	1	0	0	1	1	0	1	4	5.5	00	08	29	5157120	354643	
49	3181	30	50	20	15	30	0.5	573	0	0.5	9	4	0.0	0.0	2	08	2	2	1	0	0	1	1	1	6	4	5.5	00	08	29	5157632	354698	
50	3094	10	75	16	15	30	0.6	456	0	4.0	10	6	0.0	0.0	1	02	5	3	1	0	0	2	0	1	1	2	5.0	00	00	00	5158792	354801	
51	3179	20	40	16	12	20	0.0	1099	0	1.5	5	6	0.0	0.0	1	03	3	2	1	0	0	1	1	1	1	2	0.0	00	08	29	5158036	354959	
52	3178	24	75	16	23	33	0.5	1179	0	1.0	6	10	0.0	0.0	1	05	4	2	1	0	0	1	1	2	6	2	6.0	00	08	29	5157616	354978	
53	3176	6	150	16	14	43	0.7	521	0	0.5	9	10	0.0	0.0	3	05	4	2	1	0	0	1	1	2	6	4	0.0	00	08	29	5157776	355182	
54	3177	10	40	10	10	20	0.0	272	0	1.0	5	6	0.0	0.0	1	03	4	3	1	0	0	0	0	2	6	4	6.0	00	08	29	5157388	355276	
55	3175	20	60	20	17	40	0.6	691	0	0.5	6	10	0.0	0.0	3	05	4	1	1	0	0	0	0	3	6	4	5.0	00	08	29	5157636	355554	
56	3071	10	125	20	8	18	0.4	855	0	2.0	12	6	0.0	0.0	1	04	2	3	1	5	5	1	1	1	4	4.5	00	07	21	5157265	379655		
57	3069	16	150	50	43	13	0.4	4781	1	2.0	18	0	0.0	0.0	1	02	3	3	1	0	0	1	1	1	2	4	5	00	07	17	5156200	380950	
58	3041	20	75	20	73	43	0.4	886	0	2.0	16	0	0.0	0.0	1	01	3	3	1	5	0	1	1	1	2	4	5	00	07	11	5156910	380950	
59	3108	6	75	6	*	*	*	*	0	2.0	*	*	*	*	1	08	2	4	1	1	5	1	1	1	4	4.5	00	09	06	5158672	380969		
60	3042	20	150	20	13	95	0.4	717	0	2.0	11	0	0.0	0.0	1	04	3	3	1	4	1	1	1	1	4	4.5	00	07	11	5156850	381195		
61	3044	16	60	16	40	28	0.0	448	0	1.0	12	0	0.0	0.0	1	02	3	3	1	0	0	1	1	2	1	2	4.5	00	07	12	5156585	381550	
62	3063	2	50	20	10	0	0.0	357	0	1.0	7	0	0.0	0.0	2	06	3	3	1	5	0	1	1	1	2	4	5	00	07	12	5156765	381680	
63	3066	16	250	60	25	3	0.7	4897	0	6.0	24	0	0.0	0.0	1	02	5	3	1	0	0	1	1	2	5	1	4.5	00	07	15	5157556	381734	
64	3067	20	360	40	13	186	0.5	3469	0	4.0	16	0	0.0	0.0	1	03	3	3	1	0	0	1	1	1	2	4	5	00	07	16	5157800	381978	
65	3068	20	140	30	85	85	0.4	1398	0	3.0	16	0	0.0	0.0	1	03	3	3	1	0	0	1	1	2	1	2	4.5	00	07	16	5157816	382299	
66	3065	10	110	20	13	3	0.4	1932	0	1.0	17	0	0.0	0.0	1	02	3	3	1	5	0	1	1	1	2	4	5	00	17	15	5157000	382515	
67	3075	6	50	20	13	0	0.6	808	1	0.5	14	0	0.0	0.0	1	02	3	3	1	5	1	1	2	1	2	4	5	00	07	25	5158640	382575	
68	3078	40	125	70	15	0	0.5	2779	0	10.0	17	2	0.0	0.0	1	01	5	2	1	1	5	1	1	3	5	1	4	5	00	07	26	5158476	382685
69	3106	0	90	10	25	170	0.6	1146	0	3.0	8	4	0.0	0.0	1	07	2	5	1	1	5	1	1	1	2	4	5	00	08	04	5158800	382703	
70	3077	0	140	16	40	146	*	*	0	4.0	*	*	*	*	1	04	3	3	1	1	5	1	1	2	0	4	5	00	07	25	5153012	382786	
71	3070	16	150	70	28	290	0.4	2361	0	1.0	18	0	0.0	0.0	1	02	1	4	1	0	1	1	1	2	1	2	5	00	07	18	5157704	382841	
72	3107	0	60	10	18	105	0.4	580	0	4.0	8	10	0.0	0.0	1	07	1	5	1	1	5	1	1	1	2	4	5	00	08	04	5158704	382958	
73	3076	4	250	60	25	65	0.7	1283	0	2.0	17	2	0.0	0.0	1	04	5	3	1	1	5	1	1	1	5	1	4	5	00	07	25	5158236	383158
74	3046	6	25	24	23	23	0.0	1374	1	1.0	11	0	0.0	0.0	1	03	3	5	1	0	0	1	1	1	2	6	0	00	00	00	5156016	383203	
75	3103	0	75	40	17	75	0.5	1082	0	2.0	6	4	0.0	0.0	1	03	3	3	1	1	5	1	1	2	1	2	4	5	00	08	01	5156664	383769
76	3050	4	50	16	13	48	0.0	536	0	0.5	9	0	0.0	0.0	1	06	3	4	2	0	0	1	1	1	2	4	5	00	00	00	5156476	383818	
77	3074	6	250	60	43	0	0.6	7769	0	0.5	20	0	0.0	0.0	1	04	1	3	1	1	5	1	1	1	2	4	5	00	07	23	5156996	383990	
78	3073	10	140	20	35	95	0.5	6474	0	2.0	16	0	0.0	0.0	1	01	5	3	1	3	5	1	1	1	5	1	4	5	23	07	23	5156832	384080
79	3051	16	140	80	45	38	0.6	3071	0	2.0	11	0	0.0	0.0	1	03	2	4	1	0	0	1	1	3	5	1	4	5	00	00	00	5156692	384411
80	3102	0	60	40	20	105	0.4	1124	0	1.0	6	6	0.0	0.0	1	01	3	3	1	1	5	1	1	2	1	2	4	5	00	07	01	5157532	384633
81	3049	2	60	20	33	43	0.4	945	0	2.0	12	0	0.0	0.0	1	02	5	4	1	0	0	1	1	1	2	4	5	00	00	00	5156108	384868	
82	3052	6	300	90	105	18	0.7	1876	2	3.0	25	0	0.0	0.0	1	02	5	4	1	0	0	1	1	1	5	1	4	5	00	00	00	5156788	384920
83	3080	6	60	30	23	40	0.4	676	0	3.0	8	6	0.0	0.0	1	02	1	4	1	5	2	1	1	1	4	4	5	00	07	31	5156996	385047	
84	3136	4	50	10	12	18	0.6	883	0	2.0	4	4	0.0	0.0	6	09	5	3	1	0	0	1	0	2	1	4	4	5	00	00	00	5155840	349438
85	3135	2	40	10	*	*	*	*	*	*	*	*	*	*	3	09	1	5	1	0	0	1	2	1	1	4	4	5	00	00	00	5155692	349795
86	3134	4	50	10	10	20	*	*	0	*	*	*	*	*	3	09	2	5	1	0	0	2	1	1	1	4	4	5	00	00	00	5155568	350192
87	3133	6	40	6	*	*	*	*	0	*	*	*	*	*	2	05	3	4	1	0	0	2	1	1	1	2	4	5	00	00	00	5155632	350567
88	3132	6	40	10	10	15	0.4	392	0	4.0	0	6	0.0	0.0	2	06	2	4	1	0	0	2	1	1	1	2	5	00	00	00	5155484	350919	
89	3131	2	75	6	14	23	*	*	0	2.0	*	*	0.0	*	3	09	3	4	1	0	0	2	1	1	1	4	4	5	00	00	00	5155552	351168
90	3097	6	25	10	7	13	0.0	325	0	2.0	0	6	0.0	0.0	1	02	5	3	1	0	0	2	0	2	1	4	5	00	00	00	5153560	351595	
91	3130	6	50	6	7	13	0.5	287	0	2.0	4	6	0.0	0.0	2	08	3	4	1	0	0	2	1	1	1	2	5	00	00	00	5155660	351603	
92	3098	4	50	10	10	13	0.5	1040	0	6.0	8	10	0.0	0.0	2	03	5	3	1	0	0	1	1	1	5	2	4	5	00	00	00	5153764	352079
93	3129	4	40	10	10	15	0.0	940	0	2.0	6	4	0.0	0.0	2	06	3	4	1	0	0	2	2	1	1	4	4	5	00	00	00	5155800	352188
94	3119	6	60	6	12	23	0.0	1076	0	4.0	6	4	0.0	0.0	1	01	4	3	1	0	5	1	1	2	4	2	5	00	08	26	5153760	352319	

ZONE UTM 19

## RESULTATS D ANALYSE

## CARACTERISTIQUES DE L ECHANTILLON

NUMERO NOUV.	ANC.	CU	ZN	PB	CO	NI	AG	MN	MO	U	SB	SN	W	AU	PL	NV	TR	EC	CT	GC	PH	EC	M	J	COORDONNEES							
															RA	AI	AE	PU	OY	RO	O	O	O	O	O	O	O	NRD	EST			
															DR	TT	CC	AL	NP	AU	I	U										
															FG	UE	FO	IT	TEN	L	S	R										
ZONE UTM 19																																
95	3099	2	110	70	20	20	*	*	0	4.0	*	*	*	*	1	03	5	3	1	0	0	1	1	1	5	2	5.0	00	00	00	5154124	352375
96	3119	6	40	10	8	15	0.0	571	0	4.0	7	10	0.0	0.0	1	02	4	3	1	0	5	1	1	2	6	2	5.0	00	00	26	5154284	352639
97	3100	4	100	60	17	17	0.8	3430	0	4.0	11	10	0.0	0.0	1	03	5	3	1	0	0	1	1	1	5	2	4.5	00	00	00	5154512	352707
98	3101	4	50	20	5	10	0.4	583	0	*	4	4	0.0	0.0	1	03	5	3	1	0	0	1	1	1	4	4	4.5	00	00	00	5154880	352923
99	3127	6	75	16	*	*	*	*	0	1.0	*	*	*	*	4	10	2	6	2	0	0	2	0	1	1	2	4.5	00	00	00	5155660	353005
100	3120	4	50	10	8	20	0.0	503	0	1.0	7	10	0.0	0.0	1	05	1	3	1	0	5	2	1	2	1	2	5.0	00	08	26	5154576	353042
101	3126	0	50	6	10	17	0.0	1043	0	2.0	0	6	0.0	0.0	1	03	3	4	1	0	0	1	1	1	1	2	4.5	00	00	00	5155269	353155
102	3172	4	50	20	10	23	0.4	696	0	1.0	5	6	0.0	0.0	1	10	2	4	1	0	0	1	1	3	1	2	5.0	00	08	15	5152924	360321
103	3173	6	25	20	7	15	0.0	159	0	0.5	4	6	0.0	0.0	3	30	5	2	1	0	0	1	1	2	1	4	5.0	00	08	15	5153100	360575
104	3174	16	75	16	20	30	0.5	5798	0	0.5	10	4	0.0	0.0	1	10	2	5	1	0	0	1	1	2	1	2	5.0	00	08	15	5153363	360823
105	3169	6	100	20	24	30	*	*	0	1.5	*	*	*	*	1	20	2	5	1	0	0	1	1	1	1	2	5.0	00	08	13	5153724	361305
106	3167	10	60	30	15	25	0.5	3298	0	1.0	5	10	0.0	0.0	0	00	0	0	0	0	0	0	0	0	0	0	0.0	00	00	00	5154480	361417
107	3168	4	50	20	13	18	0.4	1658	0	0.5	5	20	0.0	0.0	0	25	2	4	1	0	0	1	1	2	1	2	5.0	00	00	00	5154060	361461
108	3166	6	50	24	7	20	0.5	392	0	1.0	5	6	0.0	0.0	2	20	0	4	1	0	0	1	1	2	1	4	5.0	00	08	13	5154712	361520
109	3044	6	25	10	5	28	0.0	382	0	0.5	9	0	0.0	0.0	1	01	3	5	2	0	0	1	1	1	1	2	5.0	00	00	00	5155588	382723
110	3045	16	50	16	8	13	0.0	3602	0	1.0	12	0	0.0	0.0	2	05	3	5	2	0	0	1	1	1	1	2	4.5	00	00	00	5155828	382801
111	3007	10	150	24	43	8	0.6	5381	0	2.0	16	0	0.0	0.0	1	02	3	4	1	0	0	1	1	2	1	1	6.0	00	00	00	5154024	383329
112	3048	6	50	20	20	28	0.0	1137	0	2.0	8	0	0.0	0.0	1	05	5	4	1	0	0	1	1	1	1	1	4.5	00	00	00	5155432	383369
113	3082	6	40	20	13	8	0.0	842	0	0.5	9	0	0.0	0.0	3	11	2	5	2	0	0	1	1	2	1	2	4.5	00	00	00	5153204	383378
114	3006	10	40	20	40	0	0.6	708	0	1.0	10	0	0.0	0.0	1	01	5	4	1	0	0	2	1	3	1	4	6.0	00	00	00	5153644	383432
115	3047	10	75	40	8	35	0.0	415	0	1.0	8	0	0.0	0.0	4	13	1	6	2	0	0	1	0	1	5	1	4.5	00	00	00	5155816	383472
116	3083	6	50	16	25	0	0.0	789	0	0.5	8	0	0.0	0.0	3	12	2	5	2	0	0	1	0	2	1	4	5.0	00	00	00	5152844	383572
117	3010	10	150	50	18	45	0.7	1141	0	1.0	14	0	0.0	0.0	2	10	3	5	2	0	0	2	1	3	1	1	7.0	00	00	00	5154088	383577
118	3031	6	75	20	63	15	0.0	345	0	2.0	7	2	0.0	0.0	3	10	3	5	2	0	0	1	1	1	5	1	4.5	00	00	00	5154976	383585
119	3030	4	125	30	18	0	0.0	1643	0	2.0	12	0	0.0	0.0	3	10	3	5	2	0	0	1	1	2	1	2	4.5	00	00	00	5154688	383666
120	3029	4	75	30	10	0	0.0	752	0	1.0	10	2	0.0	0.0	2	05	3	5	2	0	0	1	1	1	1	2	4.0	00	00	00	5154435	383749
121	3081	10	50	20	18	0	0.0	1386	0	0.5	9	0	0.0	0.0	1	04	3	4	2	0	0	1	1	1	4	2	4.5	00	00	00	5153080	383775
122	3027	4	50	20	30	3	0.0	521	0	1.0	7	0	0.0	0.0	2	10	1	6	1	0	0	1	1	2	1	1	6.0	00	00	00	5154212	383776
123	3008	4	40	16	35	15	0.5	603	0	1.0	10	0	0.0	0.0	1	02	4	4	1	0	0	2	1	2	1	2	6.0	00	00	00	5153656	383788
124	3028	6	90	40	15	25	0.0	1071	0	4.0	9	2	0.0	0.0	2	01	5	4	1	0	0	2	1	1	5	1	4.5	00	00	00	5154028	383986
125	3009	10	200	30	75	38	0.6	21992	*	3.0	13	0	0.0	0.0	1	01	5	3	1	0	0	2	1	2	4	2	6.0	00	00	00	5153964	384254
126	3005	6	40	20	43	0	0.5	845	0	1.0	9	0	0.0	0.0	1	03	2	5	2	0	0	2	1	2	1	4	6.0	00	00	00	5153440	384307
127	3053	10	100	50	10	35	0.0	2483	0	1.0	13	0	0.0	0.0	1	08	3	5	2	0	0	1	1	1	1	2	4.5	00	00	00	5155016	384563
128	3003	4	25	20	10	13	0.0	127	0	0.5	8	0	0.0	0.0	1	02	3	4	2	0	0	1	1	2	4	2	6.0	00	00	00	5153244	384677
129	3054	6	50	30	13	0	0.0	998	0	1.0	12	0	0.0	0.0	1	03	3	4	1	0	0	2	0	1	1	2	4.5	00	00	00	5154816	384737
130	3004	10	25	16	8	0	0.6	1509	0	0.5	14	0	0.0	0.0	1	04	2	5	2	0	0	2	1	2	1	2	6.0	00	00	00	5153824	384941
131	3170	2	50	16	8	17	0.0	980	0	1.0	0	10	0.0	0.0	0	15	2	5	1	0	0	0	1	3	1	4	5.0	00	08	15	5152776	359331
132	3171	4	40	10	10	30	0.4	1140	0	1.0	4	4	0.0	0.0	1	20	5	3	1	0	0	1	1	3	6	4	5.0	00	08	15	5152789	359727
133	3116	0	75	6	8	20	0.5	1879	0	2.0	5	4	0.0	0.0	1	10	2	4	1	0	5	1	1	1	1	2	5.0	00	08	16	5152560	361757
134	3085	6	75	20	85	0	0.0	757	0	0.5	9	2	0.0	0.0	3	13	2	5	2	0	0	1	0	1	1	2	4.5	00	00	00	5152328	383445
135	3084	10	100	70	63	0	0.6	6042	0	1.0	14	2	0.0	0.0	1	03	5	4	1	0	0	1	1	1	5	1	4.5	00	00	00	5152616	383475
136	3086	6	60	16	48	0	0.0	766	0	1.0	10	0	0.0	0.0	4	12	1	6	2	0	0	1	0	1	1	4	5.0	00	00	00	5152008	383535
137	3056	4	50	40	73	0	0.4	362	0	1.0	9	0	0.0	0.0	1	03	5	3	1	0	0	1	1	1	5	1	4.5	00	00	00	5152492	383997
138	3055	2	75	20	10	0	0.4	1195	0	1.0	8	0	0.0	0.0	1	02	5	3	1	0	0	1	1	1	1	1	5.0	00	00	00	5152020	384122
139	3002	6	100	10	25	28	0.4	2166	0	3.0	17	0	0.0	0.0	1	02	3	3	1	3	1	2	1	2	4	1	0.0	00	06	19	5150080	384826
140	3001	10	50	10	13	25	0.0	783	0	1.0	9	0	0.0	0.0	1	04	2	3	1	2	2	2	1	2	1	1	0.0	00	06	19	5150036	385255