

MINISTÉRIO DAS MINAS E ENERGIA  
DEPARTAMENTO NACIONAL DA PRODUÇÃO MINERAL  
CONVÊNIO DNPM - CPRM


PROJETO  
LEVANTAMENTO GEOQUÍMICO REGIONAL  
DO ESCUDO SUL-RIOGRANDENSE  
1ª FASE  
RELATÓRIO FINAL

APÊNDICE

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PHL  
012.643  
2007



	<b>SUREMI</b> SEDOTE
<b>CPRM</b>	<b>I. 96</b>
ARQUIVO TÉCNICO	
Relatório n.º	586-5
N.º de Volumes:	3
V.:	3
OSTENSIVO	

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS  
SUPERINTENDÊNCIA DE RECURSOS MINERAIS  
SUPERINTENDÊNCIA REGIONAL DE PORTO ALEGRE  
1976



PROJETO LEVANTAMENTO GEOQUÍMICO REGIONAL DO ESCUDO  
SUL-RIOGRANDENSE - 1ª FASE

Chefe do Projeto	Eugenio Casimiro Szubert
Equipe Executora	Carlos Alberto Kirchner Carlos Antonio Grazia
Prospectores	Floro de Menezes Filho Paulo José Kern Airton José Zambrozuski
Participação	Ruben Horbach Paulo Francisco Garcia
Supervisão	Gustavo Noronha D. Gonçalves (DIGEOQ) Oscar Füller (DIGEOQ) Cladis Antonio Presotto (DIVPES) Luís Edmundo Giffoni (COREMI)

## APRESENTAÇÃO

Este apêndice contém os parâmetros descritivos gerais e de campo e os resultados analíticos dos diversos meios amostrados nas áreas do Cerro dos Martins, Cerro Mantiqueiras, Pinheiro - Cerro da Árvore, Campinas - Figueiras e de Palmas, constituindo o cadastro geoquímico do Projeto.

Os parâmetros descritivos gerais e de campo foram obtidos das fichas de campo para amostras geoquímicas de acordo com modelo e tabela de codificação para o seu preenchimento utilizadas pela CPRM.

## S U M Á R I O

## CADASTRO GEOQUÍMICO

Parâmetros Descritivos Gerais  
Parâmetros Descritivos de Campo  
Parâmetros Analíticos

## Área do Cerro dos Martins

Sedimentos de corrente  
Solos de *background* - horizonte A de andesitos  
Solos de *background* - horizonte C de andesitos  
Solos de perfis - horizonte A de andesitos  
Solos de perfis - horizonte C de andesitos  
Solos de perfis - horizonte A de rochas sedimentares  
Solos de perfis - horizonte C de rochas sedimentares  
Rochas andesíticas  
Rochas sedimentares

## Área do Cerro Mantiqueiras

Sedimentos de corrente  
Solos de perfis - horizonte A de rochas ultrabásicas  
Solos de perfis - horizonte C de rochas ultrabásicas  
Solos de perfis - horizonte A de gnaisses  
Solos de perfis - horizonte C de gnaisses  
Rochas ultrabásicas

## Área de Pinheiro - Cerro da Árvore

Sedimentos de corrente  
Concentrados de bateia  
Solos de *background* - horizonte A



Solos de *background* - C  
Solos de perfis - horizonte A  
Solos de perfis - horizonte C  
Rochas graníticas

#### Área de Campinas-Figueiras

Sedimentos de corrente de granitos  
Sedimentos de corrente de xistos  
Concentrados de bateia de rochas graníticas  
Concentrados de bateia de rochas xistosas  
Solos de *background* - horizonte A de granitos  
Solos de *background* - horizonte C de granitos  
Solos de *background* - horizonte A de xistos  
Solos de *background* - horizonte C de xistos  
Solos de perfis - horizonte A de granitos  
Solos de perfis - horizonte C de granitos  
Solos de perfis - horizonte A de xistos  
Solos de perfis - horizonte C de xistos  
Rochas graníticas  
Rochas - xistos e filitos

#### Área de Palmas

Sedimentos de corrente  
Concentrados de bateia  
Solos de *background* - horizonte A  
Solos de perfis - horizonte A  
Rochas - xistos e migmatitos



## Área do Cerro dos Martins

Sedimentos de corrente

Solos de *background* - horizonte A de andesitos

Solos de *background* - horizonte C de andesitos

Solos de perfis - horizonte A de andesitos

Solos de perfis - horizonte C de andesitos

Solos de perfis - horizonte A de rochas sedimentares

Solos de perfis - horizonte C de rochas sedimentares

Rochas andesíticas

Rochas sedimentares







M

LISTAGEM DE AMOSTRAS

20.01.76

FLA. UNICA

SISTEMA DE ESTATISTICA DE AMOSTRAGEM

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FCLPA DE CONTROLE - PROGRAMA PRGQMCC7

\*\*\* OPCOES \*\*\*

ARCLIVE

C O O O O C C C O

FS193100

AMOSTRAS LIDAS 60

AMOSTRAS IMPRESSAS 60

N. INICIAL DA PAGINA 1

N. FINAL DA PAGINA 18

N. DE AMOSTRA INICIAL

N. DE AMOSTRAS FINAL

S E A G

PROJETO LEVANTAMENTO GEOQUÍMICO DO RGS

CENTRO DE CUSTO - 1533.300

SECIMENTOS DE CORRENTE CERRO DOS MARTINS

NUM. LAB.	JAC713	JAC714	JAC715	JAC716	JAC717	JAC718	JAC719	JAC720	JAC721	JAC722
NUM. CAMPO	PG0124	PG0125	PG0126	PG0127	PG0128	PG0129	PG0130	PG0131	PG0132	PG0133
AMB. BICTICO										
PARAMETROS ANALITICOS DE CAMPO										
EP										
PH	6,0	6,5	6,0		6,5		6,0		6,5	
METAL TOTAL										
COEF. LIVRE	CS131	CS121	CS111	CS101	CS091	CS081	CS141	CS151	CS181	CS191
PARAMETROS ANALITICOS										
FE-S %	3,000	0,700	1,000	2,000	0,700	0,700	3,000	1,000	0,700	0,700
MG-S %	0,200	0,150	0,200	0,200	0,150	0,150	0,200	0,150	0,150	0,150
CA-S %	0,200	0,150	0,150	0,200	0,100	0,150	0,200	0,100	0,100	0,100
TI-S %	1,000	0,300	0,200	0,300	0,300	0,200	0,700	0,300	0,300	0,200
MN-S	700,000	500,000	1000,000	700,000	500,000	500,000	1500,000	700,000	500,000	500,000
AG-S	-0,500	NAO DET.	NAO DET.	NAO DET.	0,500	NAO DET.	NAO DET.	NAO DET.	0,500	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AL-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	50,000	50,000	20,000	20,000	50,000	30,000	100,000	50,000	20,000	20,000
BA-S	1000,000	1000,000	1000,000	1000,000	1000,000	1000,000	1000,000	700,000	1000,000	1000,000
BE-S	-1,000	1,000	1,000	1,000	-1,000	1,000	1,000	-1,000	1,500	1,000
BI-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CC-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	15,000	-5,000	10,000	10,000	-5,000	-5,000	5,000	5,000	-5,000	5,000
CR-S	70,000	30,000	30,000	30,000	20,000	30,000	100,000	20,000	15,000	20,000
CL-S	30,000	100,000	30,000	20,000	20,000	70,000	15,000	15,000	20,000	50,000
LA-S	30,000	30,000	30,000	30,000	30,000	20,000	70,000	20,000	20,000	20,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
NB-S	10,000	-10,000	-10,000	-10,000	-10,000	-10,000	15,000	-10,000	-10,000	-10,000
NI-S	10,000	5,000	10,000	15,000	5,000	7,000	7,000	5,000	5,000	7,000
PE-S	30,000	30,000	50,000	30,000	30,000	50,000	30,000	30,000	30,000	50,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	7,000	-5,000	-5,000	5,000	-5,000	-5,000	INTERFER.	5,000	-5,000	-5,000
SN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SR-S	200,000	200,000	200,000	150,000	200,000	300,000	200,000	200,000	200,000	200,000
V-S	70,000	30,000	30,000	50,000	30,000	30,000	50,000	30,000	30,000	30,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	50,000	15,000	15,000	15,000	15,000	15,000	50,000	20,000	10,000	10,000
ZN-S	NAO DET.	NAO DET.	-200,000	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	500,000	200,000	200,000	200,000	500,000	300,000	+1000,000	1000,000	300,000	200,000
CU-AA	15,000	90,000	20,000	10,000	5,000	5,000	10,000	5,000	5,000	5,000
PR-AA	10,000	5,000	10,000	15,000	10,000	10,000	10,000	10,000	10,000	15,000
ZN-AA	20,000	15,000	25,000	25,000	15,000	15,000	20,000	15,000	15,000	20,000
AG-AA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-AA										
NI-AA										
BI-AA										
CE-AA										
TE-AA										
AU-AA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-CCL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SB-CCL	NAO DET.	-1,000	NAO DET.	NAO DET.	NAO DET.	NAO DET.	-1,000	-1,000	NAO DET.	NAO DET.









SEDIMENTOS DE CORRENTE CERRO DCS MARTINS

NUM. LAB. NUM. CAMPO AMB. BICTICO	JAC723 PG0134	JAC724 PG0135	JAC725 PG0136	JAC725A PG0136	JAC726 PG0137	JAC727 PG0138	JAC728 PG0139	JAC729 PG0140	JAC730 PG0141	JAC731 PG0142
PARAMETROS ANALITICOS DE CAMPO										
EH										
PF		6,5	6,0	6,0	6,5	6,5	6,5	6,5	7,0	6,5
METAL TOTAL										
CODIF. LIVRE	CS201	CS211	CS261	CS261	CS251	CS241	CS271	CS291	CS281	CS321
PARAMETROS ANALITICOS										
FE-S %	2,000	2,000	0,700		3,000	2,000	0,700	2,000	3,000	2,000
MG-S %	0,150	0,150	0,150		0,500	0,150	0,150	0,300	0,150	0,150
CA-S %	0,150	0,150	0,070		0,300	0,150	0,100	0,300	0,200	0,200
TI-S %	0,500	0,500	0,200		0,500	0,700	0,300	0,100	1,000	0,300
MN-S	700,000	1000,000	300,000		500,000	1000,000	500,000	1500,000	1000,000	1000,000
AG-S	NAO DET.	NAO DET.	NAC DET.		NAO DET.	NAO DET.	NAC DET.	1,000	NAO DET.	NAC DET.
AS-S	NAC DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AL-S	NAO DET.	NAO DET.	NAC DET.		NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
B-S	70,000	50,000	20,000		20,000	70,000	50,000	30,000	50,000	50,000
BA-S	1000,000	1000,000	700,000		700,000	1000,000	1000,000	1000,000	1000,000	1500,000
BE-S	-1,000	1,500	1,000		3,000	-1,000	1,000	1,000	-1,000	1,000
BI-S	NAC DET.	NAO DET.	NAC DET.		NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
CD-S	NAC DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
CO-S	5,000	5,000	5,000		15,000	5,000	-5,000	20,000	20,000	10,000
CR-S	70,000	30,000	30,000		100,000	30,000	10,000	150,000	300,000	20,000
CU-S	20,000	15,000	15,000		30,000	20,000	30,000	100,000	30,000	20,000
LA-S	70,000	50,000	20,000		50,000	20,000	-20,000	50,000	70,000	30,000
MO-S	NAC DET.	NAO DET.	NAC DET.		NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
NE-S	10,000	10,000	-10,000		10,000	10,000	-10,000	10,000	10,000	-10,000
NI-S	7,000	7,000	5,000		30,000	5,000	5,000	20,000	20,000	10,000
PE-S	20,000	30,000	30,000		50,000	50,000	30,000	50,000	30,000	30,000
SP-S	NAO DET.	NAO DET.	NAO DET.		NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SC-S	INTERFER.	5,000	NAO DET.		10,000	5,000	-5,000	7,000	10,000	5,000
SN-S	NAC DET.	NAO DET.	NAC DET.		NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SR-S	200,000	200,000	100,000		150,000	200,000	200,000	100,000	100,000	200,000
V-S	50,000	50,000	20,000		70,000	50,000	20,000	100,000	70,000	50,000
W-S	NAO DET.	NAO DET.	NAC DET.		NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
Y-S	30,000	20,000	10,000		50,000	30,000	10,000	20,000	30,000	15,000
ZN-S	NAO DET.	NAO DET.	NAC DET.		NAO DET.	NAC DET.	NAC DET.	-200,000	NAC DET.	NAC DET.
ZR-S	+1000,000	1000,000	200,000		300,000	700,000	300,000	300,000	1000,000	200,000
CU-AA	5,000	5,000	5,000	5,000	15,000	5,000	-5,000	45,000	15,000	5,000
PE-AA	5,000	5,000	5,000	5,000	20,000	5,000	5,000	25,000	20,000	5,000
ZN-AA	15,000	20,000	15,000	15,000	60,000	15,000	10,000	60,000	30,000	20,000
AG-AA	NAO DET.	INTERFER.	INTERFER.	INTERFER.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CO-AA										
NI-AA										
BI-AA										
CE-AA										
TE-AA										
AU-AA	NAC DET.	NAO DET.	NAC DET.		NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AS-CCL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SE-CCL	NAC DET.	NAO DET.	-1,000	-1,000	-1,000	-1,000	-1,000	-1,000	NAC DET.	NAC DET.







## SEDIMENTOS DE CORRENTE CERRO DOS MARTINS

NUM. LAB. NUM. CAMPO AME. BICTICO	JAC732 PG0143	JAC778 CK0207	JAC779 CKC208	JAC780 CK0209	JAC781 CK0210	JAC782 CK0211	JAC783 CK0212	JAC784 CKC213	JAC785 CK0214	JAC786 CK0215
PARAMETROS ANALITICOS DE CAMPO										
EH										
PH	6,5	6,0	6,5		6,5	6,0	6,5	6,5	6,0	6,0
METAL TCTAL CODIF. LIVRE	CS351	CS341	CS351	CS392	CS391	CS431	CS411	CS161	CS171	CS071
PARAMETROS ANALITICOS										
FE-S %	3,000	0,700	7,000	3,000	7,000	5,000	3,000	1,000	1,500	5,000
MG-S %	0,300	0,150	0,500	0,500	0,500	1,000	0,700	0,150	0,200	0,700
CA-S %	0,300	0,200	0,700	0,700	0,700	1,500	1,000	0,200	0,200	0,700
TI-S %	0,500	0,500	1,000	1,000	+1,000	1,000	1,000	0,300	0,300	+1,000
MN-S	1500,000	500,000	1500,000	1500,000	1500,000	1500,000	1500,000	700,000	500,000	1500,000
AG-S	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
AS-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
AL-S	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
B-S	20,000	50,000	-10,000	-10,000	-10,000	10,000	15,000	100,000	30,000	-10,000
BA-S	1000,000	1000,000	1500,000	1500,000	1500,000	500,000	700,000	1000,000	700,000	1000,000
BE-S	1,000	1,000	1,000	1,000	-1,000	1,500	1,500	1,000	1,500	1,000
BI-S	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CC-S	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
CO-S	20,000	5,000	50,000	20,000	30,000	50,000	70,000	-5,000	7,000	30,000
CR-S	50,000	10,000	200,000	150,000	200,000	300,000	200,000	20,000	15,000	100,000
CU-S	30,000	50,000	30,000	30,000	30,000	70,000	50,000	15,000	30,000	50,000
LA-S	30,000	30,000	100,000	100,000	100,000	50,000	50,000	70,000	50,000	70,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
NB-S	10,000	-10,000	15,000	10,000	10,000	-10,000	10,000	10,000	-10,000	15,000
NI-S	20,000	5,000	30,000	30,000	30,000	70,000	50,000	5,000	10,000	30,000
PE-S	50,000	30,000	50,000	30,000	50,000	50,000	30,000	20,000	20,000	70,000
SE-S	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SC-S	10,000	5,000	20,000	20,000	20,000	30,000	30,000	5,000	5,000	20,000
SN-S	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
SR-S	100,000	150,000	300,000	300,000	300,000	-100,000	100,000	150,000	100,000	200,000
V-S	70,000	50,000	200,000	200,000	200,000	200,000	200,000	30,000	50,000	150,000
W-S	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
Y-S	20,000	10,000	70,000	50,000	50,000	20,000	50,000	30,000	15,000	50,000
ZN-S	-200,000	-200,000	200,000	200,000	-200,000	-200,000	200,000	-200,000	-200,000	-200,000
ZR-S	300,000	500,000	300,000	300,000	300,000	300,000	300,000	700,000	300,000	300,000
CU-AA	15,000	5,000	25,000	25,000	25,000	55,000	50,000	-5,000	5,000	25,000
PE-AA	20,000	10,000	40,000	35,000	40,000	40,000	40,000	10,000	15,000	30,000
ZN-AA	35,000	15,000	130,000	130,000	120,000	130,000	110,000	15,000	25,000	65,000
AG-AA	NAO DET.	NAO DET.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	NAO DET.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CC-AA										
TE-AA										
AU-AA	NAC DET.	-0,050	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	-0,100	NAC DET.
AS-CCL	-10,000	-10,000	-10,000	-10,000	-10,000	10,000	10,000	-10,000	-10,000	-10,000
SE-CCL	NAC DET.	-1,000	-1,000	-1,000	-1,000	-1,000	-1,000	NAO DET.	-1,000	NAC DET.









S E A G

PROJ. 10 - LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

## SEDIMENTOS DE CORRENTE CERRO DOS MARTINS

NUM. LAB. NUM. CAMPO AMB. BICTICO	JAC787 CK0216	JAC787A CK0216	JAC788 CK0217	JAC789 CK0218	JAC790 CK0219	JAC791 CK0220	JAC792 CK0221	JAC793 CK0222	JAC794 CK0223	JAC795 CK0224
PARAMETROS ANALITICOS DE CAMPO										
EF										
PH	6,0	6,0	6,0	6,0	6,0	6,0	6,5	6,5	6,5	6,0
METAL TOTAL CODIF. LIVRE	CS061	CS061	CSC51	CS041	CS042	CS011	CS021	CSC31	CSC32	CS221
PARAMETROS ANALITICOS										
FE-S %	7,000		3,000	0,700	1,000	1,000	3,000	0,700	1,000	1,000
MG-S %	0,700		0,300	0,150	0,150	0,150	0,200	0,150	0,150	0,150
CA-S %	1,000		0,300	0,200	0,100	0,150	0,200	0,150	0,150	0,200
TI-S %	+1,000		1,000	0,300	0,300	0,300	1,000	0,200	0,300	0,300
MA-S	2000,000		1000,000	300,000	500,000	300,000	700,000	300,000	300,000	500,000
AG-S	NAC DET.		NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AS-S	NAC DET.		NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
AU-S	NAC DET.		NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
B-S	-10,000		50,000	30,000	50,000	50,000	70,000	30,000	50,000	50,000
BA-S	1500,000		1000,000	1500,000	1000,000	1000,000	1000,000	1000,000	1500,000	1500,000
BE-S	1,000		1,500	1,500	-1,000	1,500	-1,000	1,000	1,000	1,000
BI-S	NAC DET.		NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CD-S	NAC DET.		NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CO-S	50,000		15,000	-5,000	5,000	-5,000	7,000	-5,000	5,000	5,000
CR-S	100,000		70,000	15,000	20,000	10,000	70,000	15,000	15,000	20,000
CU-S	30,000		20,000	15,000	20,000	20,000	30,000	15,000	30,000	20,000
LA-S	100,000		50,000	20,000	20,000	20,000	30,000	20,000	20,000	20,000
MO-S	NAO DET.		NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
NB-S	20,000		10,000	-10,000	-10,000	-10,000	10,000	-10,000	-10,000	-10,000
NI-S	20,000		15,000	7,000	7,000	5,000	15,000	7,000	7,000	7,000
PE-S	50,000		50,000	30,000	30,000	30,000	30,000	20,000	30,000	20,000
SE-S	NAC DET.		NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
SC-S	30,000		7,000	-5,000	-5,000	-5,000	7,000	-5,000	-5,000	5,000
SN-S	NAO DET.		NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SR-S	300,000		100,000	150,000	100,000	150,000	100,000	150,000	150,000	150,000
V-S	200,000		70,000	50,000	30,000	30,000	70,000	20,000	30,000	30,000
W-S	NAC DET.		NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
Y-S	50,000		20,000	10,000	10,000	30,000	20,000	10,000	10,000	10,000
ZN-S	300,000		NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	-200,000
ZR-S	300,000		700,000	200,000	300,000	300,000	500,000	300,000	300,000	500,000
CU-AA	20,000	20,000	10,000	5,000	5,000	10,000	5,000	5,000	5,000	5,000
PE-AA	25,000	25,000	20,000	10,000	10,000	15,000	15,000	10,000	10,000	10,000
ZN-AA	70,000	70,000	40,000	20,000	15,000	20,000	30,000	15,000	10,000	20,000
AG-AA	INTERFER.	INTERFER.	NAC DET.	NAO DET.	NAC DET.	INTERFER.	INTERFER.	NAO DET.	NAO DET.	NAC DET.
CO-AA										
NI-AA										
BI-AA										
CE-AA										
TE-AA										
AU-AA	NAC DET.		INSUFIC.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AS-CCL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SB-CCL	-1,000	-1,000	-1,000	-1,000	-1,000	NAC DET.	-1,000	NAO DET.	-1,000	-1,000







SEDIMENTOS DE CORRENTE CERRCO DOS MARTINS

NUM. LAB. NUM. CAMPO AMB. ECTICO	JAC796 CK0225	JAC797 CK0226	JAC798 CKC227	JAC799 CK0228	JAC800 CK0229	JAC801 CK0230	JAC802 CK0231	JAC803 CKC232	JAC804 CKC233	JAC805 CK0234
PARÂMETROS ANALITICOS DE CAMPO										
PH	6,0	6,5	6,5		6,5	6,5		6,5		
METAL TOTAL										
CODIF. LIVRE	CS231	CS451	CS381	CS382	CS401	CS441	CS421	CS371	CS361	CS362
PARÂMETROS ANALITICOS										
FE-S %	1,500	1,000	5,000	10,000	5,000	3,000	5,000	5,000	5,000	5,000
MG-S %	0,150	0,150	0,500	0,700	0,700	0,300	0,700	0,700	0,700	0,700
CA-S %	0,150	0,100	0,700	1,000	1,000	0,200	1,000	1,000	0,700	1,000
TI-S %	0,500	0,300	+1,000	+1,000	1,000	0,500	1,000	1,000	1,000	1,000
MN-S	700,000	300,000	1500,000	1500,000	1000,000	500,000	1500,000	1000,000	1000,000	1000,000
AG-S	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AS-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
AL-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
B-S	70,000	50,000	20,000	20,000	10,000	30,000	15,000	15,000	20,000	20,000
BA-S	1000,000	1000,000	1000,000	1500,000	1000,000	700,000	700,000	500,000	500,000	300,000
BE-S	1,000	1,500	1,000	1,000	1,000	1,000	1,000	1,000	-1,000	-1,000
BI-S	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
CC-S	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CO-S	5,000	5,000	50,000	70,000	50,000	10,000	30,000	50,000	50,000	50,000
CR-S	50,000	10,000	100,000	300,000	150,000	50,000	300,000	150,000	200,000	150,000
CU-S	10,000	15,000	30,000	50,000	30,000	20,000	70,000	70,000	50,000	70,000
LA-S	20,000	20,000	70,000	100,000	50,000	20,000	20,000	50,000	30,000	30,000
MO-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
NE-S	-10,000	-10,000	15,000	15,000	10,000	10,000	10,000	10,000	10,000	10,000
NI-S	7,000	5,000	30,000	70,000	30,000	20,000	50,000	30,000	30,000	50,000
PE-S	20,000	30,000	50,000	50,000	50,000	20,000	50,000	100,000	30,000	30,000
SB-S	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SC-S	5,000	-5,000	20,000	30,000	20,000	7,000	20,000	30,000	30,000	30,000
SN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SP-S	100,000	100,000	300,000	300,000	300,000	100,000	150,000	-100,000	100,000	100,000
V-S	30,000	20,000	150,000	200,000	200,000	70,000	200,000	200,000	150,000	200,000
W-S	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
Y-S	20,000	10,000	30,000	70,000	30,000	20,000	30,000	50,000	30,000	50,000
ZN-S	-200,000	NAO DET.	200,000	200,000	200,000	-200,000	200,000	200,000	-200,000	-200,000
ZR-S	500,000	300,000	300,000	300,000	200,000	500,000	300,000	200,000	200,000	300,000
CU-AA	5,000	5,000	25,000	25,000	20,000	10,000	55,000	55,000	45,000	50,000
PE-AA	10,000	10,000	15,000	30,000	25,000	20,000	40,000	45,000	30,000	30,000
ZN-AA	15,000	15,000	70,000	80,000	80,000	35,000	130,000	120,000	55,000	55,000
AG-AA	NAO DET.	NAO DET.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CC-AA										
TE-AA										
AU-AA	NAC DET.	NAO DET.	NAC DET.	-0,050	NAC DET.	NAO DET.	-0,050	NAO DET.	NAC DET.	-0,050
AS-CCL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	10,000	-10,000	-10,000	-10,000
SE-CCL	-1,000	-1,000	-1,000	-1,000	-1,000	-1,000	-1,000	NAO DET.	-1,000	-1,000









## SEDIMENTOS DE CORRENTE CERRC DOS MARTINS

NUM. LAB. NUM. CAMPO AMB. BIOTICO	JAC806 CK0235	JAC807 CK0236	JAC808 CK0237	JAC809 CK0238	JAC810 CK0210A	JAC811 CK0211A	JAC812 CK0214A	JAC812A CK0214A	JAC813 CK0220A	JAC814 CK0235A
PARAMETROS ANALITICOS DE CAMPO										
PH	6,0	6,5	6,5	6,5	6,5	6,0	6,5	6,5	6,0	6,0
METAL TOTAL CODIF. LIVRE	CS311	CS301	CS302	CS331	CS393	CS433	CS173	CS173	CS013	CS313
PARAMETROS ANALITICOS										
FF-S %	1,000	1,000	1,000	5,000	10,000	3,000	1,500		1,000	1,000
MG-S %	0,150	0,200	0,150	1,000	0,700	0,700	0,300		0,150	0,150
CA-S %	0,150	0,100	0,100	1,000	0,700	1,000	0,150		0,100	0,200
TI-S %	0,300	0,300	0,500	1,000	+1,000	1,000	0,500		0,300	0,300
MN-S	200,000	700,000	700,000	1000,000	2000,000	1000,000	500,000		500,000	300,000
AG-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.		NAC DET.	NAC DET.
AS-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.		NAC DET.	NAC DET.
AL-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.		NAC DET.	NAC DET.
B-S	20,000	20,000	20,000	50,000	-10,000	10,000	30,000		50,000	30,000
BA-S	1000,000	1000,000	1000,000	500,000	1500,000	300,000	700,000		1000,000	1000,000
BE-S	1,000	1,500	-1,000	1,000	-1,000	1,000	1,000		1,000	1,000
BI-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.		NAC DET.	NAC DET.
CC-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.		NAC DET.	NAC DET.
CC-S	5,000	5,000	7,000	70,000	50,000	20,000	7,000		-5,000	5,000
CR-S	30,000	15,000	50,000	300,000	300,000	300,000	20,000		15,000	50,000
CL-S	10,000	7,000	10,000	70,000	50,000	70,000	20,000		10,000	15,000
LA-S	20,000	20,000	20,000	50,000	100,000	30,000	30,000		20,000	20,000
MC-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.		NAC DET.	NAC DET.
NE-S	-10,000	-10,000	-10,000	10,000	15,000	-10,000	-10,000		-10,000	-10,000
NI-S	10,000	10,000	10,000	70,000	30,000	50,000	15,000		5,000	10,000
PE-S	30,000	30,000	30,000	50,000	100,000	70,000	30,000		30,000	30,000
SE-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.		NAC DET.	NAC DET.
SC-S	-5,000	NAC DET.	5,000	30,000	30,000	20,000	5,000		-5,000	-5,000
SN-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.		NAC DET.	NAC DET.
SR-S	200,000	150,000	100,000	100,000	300,000	-100,000	100,000		200,000	200,000
V-S	30,000	20,000	30,000	200,000	300,000	200,000	50,000		20,000	30,000
W-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.		NAC DET.	NAC DET.
Y-S	15,000	10,000	15,000	30,000	70,000	30,000	10,000		20,000	15,000
ZN-S	NAC DET.	NAC DET.	NAC DET.	200,000	-200,000	-200,000	-200,000		NAC DET.	NAC DET.
ZR-S	300,000	150,000	300,000	300,000	500,000	200,000	300,000		300,000	300,000
CU-AA	5,000	5,000	10,000	45,000	25,000	55,000	5,000	5,000	5,000	5,000
PE-AA	10,000	15,000	15,000	35,000	35,000	40,000	15,000	15,000	10,000	10,000
ZN-AA	20,000	25,000	30,000	80,000	120,000	130,000	30,000	30,000	15,000	15,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	NAC DET.	NAC DET.
CO-AA										
NI-AA										
BI-AA										
CC-AA										
TE-AA										
AU-AA	NAC DET.	INSUFIC.	INSUFIC.	NAC DET.	NAC DET.	NAC DET.	NAC DET.		NAC DET.	NAC DET.
AS-CCL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SB-CCL	-1,000	NAC DET.	-1,000	NAC DET.	-1,000	NAC DET.	-1,000	-1,000	NAC DET.	NAC DET.





SISTEMA DE ESTATISTICA DE AMOSTRAGEM

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FOLHA DE CONTROLE - PROGRAMA PRGCMCC7

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N. FINAL DA PAGINA 6

N. DE AMOSTRA INICIAL

N. DE AMOSTRAS FINAL





SOLOS DE BACKGROUND FOR. A DE ANDESITOS C. MARTINS

NUM. LAB. NUM. CAMPO AME. PICTICO	JAC835 CK0165	JAC837 ES0167	JAC839 ES0169	JAC844 CK0175	JAC846 CK0177	JAC847 CK0178	JAC849 ES0181	JAC849A ES0181	JAC851 ES0183	JAC853 ES0185
PARAMETROS ANALITICOS DE CAMPO										
EH PH METAL TOTAL CODIF. LIVRE	CC0151	CC0141	CC0131	CC0121	CC0091	CC0092	CC0041	CC0041	CC0051	CC0101
PARAMETROS ANALITICOS										
FE-S %	3,000	5,000	5,000	5,000	3,000	3,000	3,000		3,000	5,000
MG-S %	0,500	0,700	0,500	0,300	0,200	0,300	0,200		0,700	0,500
CA-S %	0,300	0,500	0,700	0,200	0,070	0,100	0,070		0,500	0,150
TI-S %	1,000	+1,000	+1,000	+1,000	+1,000	+1,000	+1,000		+1,000	+1,000
MN-S	1000,000	5000,000	2000,000	1500,000	1000,000	1500,000	1500,000		2000,000	1000,000
AG-S	NAD DET.	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	1,500		1,000	0,500
AS-S	NAC DET.	NAD DET.	NAD DET.	NAC DET.	NAC DET.	NAC DET.	NAD DET.		NAC DET.	NAC DET.
AL-S	NAD DET.	NAD DET.	NAC DET.	NAC DET.	NAD DET.	NAC DET.	NAD DET.		NAC DET.	NAC DET.
B-S	10,000	10,000	-10,000	10,000	10,000	10,000	-10,000		-10,000	-10,000
BA-S	1500,000	1500,000	1500,000	1000,000	700,000	1000,000	1500,000		2000,000	700,000
BE-S	1,500	2,000	1,500	1,500	1,500	1,500	1,500		1,000	1,500
BI-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAC DET.	NAC DET.	NAD DET.		NAC DET.	NAC DET.
CO-S	NAC DET.	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAC DET.	NAD DET.		NAC DET.	NAC DET.
CC-S	15,000	30,000	30,000	50,000	15,000	20,000	20,000		30,000	20,000
CR-S	100,000	100,000	150,000	150,000	50,000	70,000	70,000		200,000	100,000
CL-S	50,000	50,000	50,000	30,000	50,000	70,000	200,000		150,000	200,000
LA-S	70,000	70,000	100,000	70,000	30,000	50,000	70,000		30,000	30,000
MO-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAC DET.	NAC DET.	NAD DET.		NAC DET.	NAC DET.
NE-S	10,000	10,000	15,000	15,000	10,000	15,000	10,000		-10,000	10,000
NI-S	30,000	30,000	30,000	30,000	20,000	30,000	20,000		50,000	50,000
PE-S	70,000	150,000	150,000	70,000	100,000	70,000	50,000		50,000	30,000
Sb-S	NAC DET.	NAD DET.	NAC DET.	NAC DET.	NAD DET.	NAD DET.	NAD DET.		NAC DET.	NAC DET.
SC-S	20,000	20,000	20,000	15,000	10,000	20,000	20,000		20,000	20,000
SN-S	NAD DET.	NAD DET.	NAC DET.	NAC DET.	NAD DET.	NAC DET.	NAD DET.		NAC DET.	NAC DET.
SR-S	100,000	300,000	200,000	150,000	100,000	100,000	100,000		150,000	100,000
V-S	150,000	200,000	150,000	150,000	70,000	100,000	150,000		150,000	150,000
W-S	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.		NAC DET.	NAC DET.
Y-S	50,000	50,000	70,000	20,000	20,000	30,000	50,000		20,000	30,000
ZN-S	300,000	200,000	200,000	-200,000	-200,000	-200,000	-200,000		200,000	200,000
ZR-S	500,000	300,000	300,000	300,000	300,000	500,000	500,000		300,000	300,000
CU-AA	20,000	35,000	50,000	30,000	50,000	50,000	200,000	200,000	100,000	220,000
PE-AA	25,000	45,000	80,000	40,000	50,000	50,000	75,000	75,000	45,000	80,000
ZN-AA	150,000	210,000	240,000	170,000	130,000	140,000	150,000	150,000	190,000	170,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CE-AA										
TE-AA										
AU-AA	NAD DET.	NAD DET.	NAC DET.	NAC DET.	NAD DET.	NAD DET.	NAD DET.		NAC DET.	NAC DET.
AS-CCL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SE-CCL	-1,000	-1,000	-1,000	NAC DET.	NAC DET.	NAC DET.	-1,000	-1,000	NAC DET.	NAC DET.





## SOLOS DE BACKGROUND FOR.A DE ANDESITOS C. MARTINS

NUM. LAE.	JAC856	JAC859	JAC860	JAC861	JAC869	JAC871	JAC878
NUM. CAMPO	ES0189	ES0193	ES0194	ES0195	CK0203	CK0205	ES0185A
C. CUSTO	1533	1533	1533	1533	1533	1533	1533
S. CUSTO	300	300	300	300	300	300	300
PRECEDENCIA	AD	AD	AD	AD	AD	AD	AD
BASE CART.	SH22MIV1	SH22MIV1	SH22MIV1	SH22MIV1	SH22MIV1	SH22MIV1	SH22MIV1
BASE CART.							
BASE CART.							
ESCALA	0050	0050	0050	0050	0050	0050	0050
DATA	06/75	06/75	06/75	06/75	06/75	06/75	06/75
LATITUDE							
LONGITUDE							
ABSCISSA - X	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	263530	263500	263500	263200	263120	263900	264000
UTM - LONG.	06599510	06599420	06599420	06599160	06597640	06601550	06600075
MER. CENT.	51	51	51	51	51	51	51

## PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	L	L	L	L	L	L	L
TIPO AMOST.	B	B	B	B	B	B	B
FONTE AMOST.	C	C	C	C	C	C	C
ROCHA REC.	X	X	X	X	X	X	X
ID. GEOLG.	CI	CI	CI	CI	CI	CI	CI
MAT. COLET.	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO
PLUVIOSIDADE	A	A	A	A	A	A	A
TIPO VEGET.	E	E	E	E	E	E	E
SIT. TOPOG.	D	D	D	E	D	D	D
SIT. AMOST.							
ALTITUDE							
PROF. AMOST.	0,05	0,05	0,05	0,05	0,05	0,10	0,05
FORMA IGNEA							
SIT. ESTRUT.							
MATRIZ PRED.							
GRAU INTENS.							
TIPO ALTER.							
TIPO MINER.							
DEP. CCCC.							
LARGURA RIO							
PROFUND. RIO							
VELOC. CORR.							
NIVEL AGLA							
AREA DRENAG.							
TURB. AGLA							
POS. COLETA							
COR. AGUA							
GRAU ARREC.							
VCL. CRIGIN.							
PESC. CCNC.							
GRANULOMET.							
TEXT. SECIM.	1342	1513	1513	1612	214 3	62 2	1333
COR. SEC./SL.	C	C	C	C	C	C	C
HORIZ. SCLC	A	A	A	A	A	A	A
TIPO SCLC	C	C	C	C	C	C	C

S E A G

PROJETO - LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

## SOLDS DE BACKGROUND FOR A DE ANDESITOS C. MARTINS

NUM. LAB.	JAC856	JAC855	JAC860	JAC861	JAC869	JAC871	JAC878
NUM. CAMPO	ES0189	ES0193	ES0194	ES0195	CK0203	CK0205	ES0185A
AMB. BIOTICO							

## PARAMETROS ANALITICOS DE CAMPO

EH							
PF							
METAL TOTAL							
COEF. LIVRE	CO081	CO071	CO072	CO061	CO011	CO161	CC103

## PARAMETROS ANALITICOS

FF-S %	5,000	7,000	5,000	5,000	3,000	0,700	7,000
MG-S %	0,500	0,700	0,700	0,700	0,700	0,150	0,700
CA-S %	1,000	1,000	1,000	1,000	0,500	0,100	0,150
TI-S %	+1,000	+1,000	+1,000	+1,000	+1,000	0,300	+1,000
MN-S	700,000	1000,000	1000,000	1000,000	1000,000	300,000	2000,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	1,500
AS-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.
AL-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.
B-S	-10,000	-10,000	-10,000	10,000	-10,000	20,000	10,000
BA-S	700,000	700,000	1000,000	1000,000	1500,000	1500,000	700,000
BE-S	1,500	1,000	1,000	1,500	1,500	1,000	1,000
BI-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.
CD-S	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
CO-S	20,000	30,000	20,000	30,000	20,000	5,000	50,000
CR-S	150,000	100,000	100,000	300,000	100,000	30,000	150,000
CU-S	20,000	20,000	20,000	50,000	70,000	20,000	300,000
LA-S	100,000	100,000	100,000	100,000	100,000	-20,000	50,000
MO-S	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.
NE-S	10,000	15,000	10,000	15,000	15,000	-10,000	15,000
NI-S	30,000	30,000	20,000	30,000	30,000	10,000	70,000
PE-S	15,000	30,000	20,000	30,000	70,000	30,000	100,000
SE-S	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.
SC-S	20,000	30,000	20,000	30,000	20,000	-5,000	30,000
SN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.
SR-S	200,000	500,000	500,000	200,000	100,000	150,000	100,000
V-S	100,000	150,000	150,000	150,000	100,000	30,000	200,000
W-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.
Y-S	50,000	70,000	50,000	70,000	50,000	15,000	50,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	-200,000	200,000	-200,000	200,000
ZR-S	300,000	700,000	500,000	300,000	300,000	300,000	300,000
CU-AA	10,000	10,000	10,000	50,000	55,000	-5,000	210,000
PE-AA	20,000	30,000	30,000	35,000	30,000	10,000	80,000
ZN-AA	30,000	45,000	45,000	95,000	100,000	20,000	160,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	NAC DET.	INTERFER.
CO-AA							
NI-AA							
BI-AA							
CE-AA							
TE-AA							
AU-AA	-0,050	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.
AS-CCL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SE-CCL	NAO DET.	NAO DET.	NAO DET.	NAC DET.	-1,000	-1,000	-1,000



## SOLOS DE BACKGROUND PARA DE ANDESITOS C. MARTINS

NUM. LAB.	JAC856	JAC859	JAC860	JAC861	JAC869	JAC871	JAC878
NUM. CAMPO	ES0189	ES0193	FSC194	ES0195	CK0203	CK0205	ES0185A
CXCU-CCL							
MET PES							
CO-CCL							
MO-CCL							
W-CCL							
P-CCL							
SE-CCL							
U-CCL							

SOLOS DE BACKGROUND HCF.C DE ANDESITOS C. MARTINS

NUM. LAB.	JAC836	JAC838	JAC840	JAC845	JAC848	JAC850	JAC852	JAC854	JAC855	JAC857
NUM. CAMPO	CK0166	ES0168	ES0170	CK0176	CK0179	ES0182	ES0184	ESC187	ES0188	ES0190
C. CLSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300
PRECISENCA	AD	AD	AD	AD	AD	AC	AD	AD	AD	AD
BASE CART.	SH22MIV1	SH22MIV1	SH22MIV1	SH22MIV1	SH22MIV1	SH22MIV1	SH22MIV1	SH22MIV1	SH22MIV1	SH22MIV1
BASE CART.										
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	06/75	06/75	06/75	06/75	06/75	06/75	06/75	06/75	06/75	06/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	263700	263650	263600	263620	263700	264150	264100	264000	264000	263530
UTM - LONG.	06601200	06600825	06600600	06600230	06599690	06599470	06599750	06600075	06600075	06599510
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	L	L	L	L	L	L	L	L	L	L
TIPO AMOST.	A	B	B	B	B	B	B	B	B	B
FONTE AMOST.	C	C	C	C	C	C	C	C	C	C
ROCHA REC.	X	X	X	X	X	X	X	X	X	X
ID. CECLCG.	CI	CI	CI	CI	CI	CI	CI	CI	CI	CI
MAT. COLET.	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO
PLUVIOSIDADE	D	D	D	D	D	A	A	A	A	A
TIPO VEGET.	E	E	E	E	E	E	E	E	E	E
SIT. TOPOG.	E	E	E	E	D	D	D	D	D	D
SIT. AMOST.										
ALTITUDE										
PROF. AMOST.	0,30	0,30	0,40	0,35	0,50	1,20	0,35	0,40	0,40	0,40
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PRFD.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEF. COCOR.										
LARGURA FIC										
PROFUND. PIC										
VELOC. CORR.										
NIVEL AGLA										
AREA DRENAG.										
TURE. AGLA										
PCS. COLETA										
COR AGLA										
GRAU ARREC.										
VOL. CRIGIN.										
PESO CCNC.										
GRANULOMET.										
TEXT. SEDIM.	5131	4132	5122	4213	5113	3151	8 2	4123	4123	61 3
COR SED./SL.	C	C	C	C	C	C	C	C	C	C
HORIZ. SOLO	C	C	C	C	C	C	C	C	C	C
TIPO SOLO	C	C	C	C	C	F	F	F	F	F



SISTEMA DE ESTATISTICA DE AMOSTRAGEM

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FOLHA DE CONTROLE - PROGRAMA PRGQM007

\*\*\* OPCOES \*\*\*

ARQUIVO

C O C C O O C C C O

FS193202

AMOSTRAS LIDAS 17

AMOSTRAS IMPRESSAS 17

N. INICIAL DA PAGINA 1

N. FINAL DA PAGINA 6

N. DE AMOSTRA INICIAL

N. DE AMOSTRAS FINAL

SOLOS DE BACKGROUND FOR.C DE ANDESITOS C. MARTINS

NUM. LAB.	JAC836	JAC838	JAC840	JAC845	JAC848	JAC850	JAC852	JAC854	JAC855	JAC857
NUM. CAMPO	CK0166	ES0168	ESC170	CK0176	CK0179	ES0182	ES0184	ESC187	ESC188	ES0190
AMB. BIOTICO										

PARAMETROS ANALITICOS DE CAMPO

EH										
PF										
METAL TOTAL										
CODIF. LIVRE	C0151	C0141	CC171	C0121	C0091	C0041	CC051	CG101	CC102	C0081

PARAMETROS ANALITICOS

FE-S %	7,000	3,000	5,000	5,000	3,000	3,000	5,000	5,000	5,000	5,000
MG-S %	1,000	0,700	1,000	0,700	0,500	0,500	1,000	1,500	2,000	2,000
CA-S %	0,700	0,700	1,000	0,100	0,100	0,070	0,500	0,700	0,700	1,000
TI-S %	+1,000	0,700	+1,000	1,000	+1,000	+1,000	+1,000	+1,000	1,000	1,000
MN-S	1500,000	1000,000	1500,000	1500,000	3000,000	1500,000	+5000,000	2000,000	1500,000	1000,000
AG-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	2,000	20,000	1,000		NAC DET.
AS-S	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AL-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
B-S	-10,000	-10,000	10,000	-10,000	10,000	10,000	-10,000	15,000	20,000	-10,000
BA-S	1500,000	700,000	2000,000	700,000	1500,000	1500,000	2000,000	1500,000	1500,000	700,000
BE-S	1,000	1,000	1,000	1,500	1,500	1,500	2,000	-1,000	-1,000	3,000
BI-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CE-S	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CO-S	50,000	15,000	50,000	70,000	50,000	20,000	70,000	50,000	50,000	70,000
CR-S	150,000	100,000	100,000	100,000	100,000	70,000	200,000	100,000	70,000	70,000
CU-S	30,000	30,000	30,000	50,000	70,000	300,000	7000,000	150,000	150,000	50,000
LA-S	100,000	70,000	70,000	100,000	70,000	100,000	100,000	50,000	70,000	100,000
MO-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
NE-S	10,000	-10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
NI-S	70,000	20,000	50,000	50,000	30,000	30,000	100,000	70,000	70,000	70,000
PE-S	70,000	100,000	30,000	150,000	150,000	150,000	100,000	50,000	50,000	30,000
SE-S	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SC-S	30,000	10,000	20,000	20,000	20,000	20,000	30,000	30,000	30,000	20,000
SN-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SR-S	200,000	300,000	500,000	-100,000	150,000	100,000	150,000	500,000	500,000	200,000
V-S	200,000	70,000	150,000	100,000	100,000	150,000	150,000	150,000	70,000	150,000
W-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
Y-S	70,000	20,000	50,000	30,000	50,000	50,000	50,000	50,000	30,000	30,000
ZN-S	500,000	500,000	200,000	200,000	200,000	200,000	200,000	-200,000	200,000	-200,000
ZR-S	500,000	200,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000
CU-AA	30,000	30,000	30,000	30,000	55,000	280,000	+1000,000	50,000	95,000	30,000
PE-AA	35,000	70,000	45,000	55,000	55,000	75,000	40,000	55,000	55,000	45,000
ZN-AA	330,000	350,000	150,000	260,000	190,000	160,000	220,000	170,000	170,000	70,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CE-AA										
TE-AA										
AU-AA	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	-0,050	NAO DET.	NAC DET.	NAC DET.
AS-CCL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SB-CCL	-1,000	-1,000	NAC DET.	-1,000	-1,000	1,000	-1,000	NAO DET.	NAC DET.	NAC DET.





## SOLOS DE BACKGROUND POR.C DE ANDESITOS C. MARTINS

NUM. LAB.	JAC858	JAC862	JAC870	JAC872	JAC874	JAC874A	JAC875
NUM. CAMPO	ES0191	ES0196	CK0204	CK0206	CK0179A	CK0179A	ES0191A
C. CUSTO	1533	1533	1533	1533	1533	1533	1533
S. CUSTO	300	300	300	300	300	300	300
PRECEDENCIA	AD	AD	AD	AD	AD	AD	AD
BASE CART.	SH22MIV1	SH22MIV1	SH22MIV1	SH22MIV1	SH22MIV1	SH22MIV1	SH22MIV1
BASE CART.							
BASE CART.							
ESCALA	0050	0050	0050	0050	0050	0050	0050
DATA	06/75	06/75	06/75	06/75	06/75	06/75	06/75
LATITUDE							
LONGITUDE							
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	263500	263200	263120	263900	263700	263700	263500
UTM - LONG.	06599420	06599160	06599640	06601550	06599690	06599690	06599420
MER. CENT.	51	51	51	51	51	51	51

## PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	L	L	L	L	L	L	L
TIPC AMOST.	B	B	B	B	B	B	B
FRNT. AMOST.	C	C	C	C	C	C	C
ROCHA REG.	X	X	X	X	X	X	X
ID. CECLCG.	CI	CI	CI	CI	CI	CI	CI
MAT. CELET.	SOLO	SOLO	SCLC	SOLO	SOLO	SCLC	SOLO
PLUVICSICACE	A	A	A	A	D	C	A
TIPC VEGET.	E	E	E	E	E	E	E
SIT. TOPOG.	D	E	D	D	D	C	D
SIT. AMOST.							
ALTITUDE							
PROF. AMOST.	0,55	0,30	0,50	0,60	0,50	0,50	0,55
FORMA IGNEA							
SIT. ESTRUT.							
MATRIZ PREF.							
GRAU INTEMP.							
TIPC ALTER.							
TIPC MINER.							
DEP. CCCCR.							
LARGURA FIC							
PROFUND. RIO							
VFLOC. CORR.							
NIVEL ACLA							
AREA CRENAG.							
TURB. ACLA							
PCS. CELETA							
COR ACLA							
GRAU AFREC.							
VCL. CFIGIN.							
PESO CENC.							
GRANULOMET.							
TEXT. SECIM.	514	514	613	244	5113	5113	514
COR SEC./SL.	C	C	C	C	C	C	C
HORIZ. SCLC	C	C	C	C	C	C	C
TIPC SCLC	F	F	F	F	C	C	F



SOLOS DE BACKGROUND FOR. C DE ANDESITOS C. MARTINS

NUM. LAB.	JAC858	JAC862	JAC870	JAC872	JAC874	JAC874A	JAC875
NUM. CAMPO	ES0191	ESC196	CKC204	CK0206	CK0179A	CK0179A	ES0191A
AMB. BIOTICO							

PARAMETROS ANALITICOS DE CAMPO

EH							
PH							
METAL TOTAL							
CODIF. LIVRE	C0071	C0061	C0011	C0161	C0093	C0093	C0073

PARAMETROS ANALITICOS

FE-S %	7,000	7,000	5,000	3,000	3,000		7,000
MG-S %	1,000	2,000	1,000	0,500	0,500		0,700
CA-S %	1,500	0,700	0,300	0,050	0,100		1,000
TI-S %	+1,000	1,000	1,000	0,700	+1,000		+1,000
MN-S	1000,000	1000,000	2000,000	150,000	3000,000		1000,000
AG-S	NAC DET.	NAO DET.	NAC DET.	NAC DET.	-0,500		-0,500
AS-S	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.		NAC DET.
AL-S	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.		NAO DET.
B-S	-10,000	-10,000	-10,000	15,000	10,000		-10,000
BA-S	700,000	500,000	2000,000	500,000	1500,000		700,000
BE-S	1,000	1,500	1,500	2,000	1,000		1,000
BI-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.		NAO DET.
CC-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.		NAO DET.
CO-S	50,000	100,000	50,000	15,000	50,000		50,000
CR-S	150,000	30,000	150,000	100,000	150,000		150,000
CU-S	20,000	20,000	100,000	20,000	50,000		20,000
LA-S	100,000	200,000	100,000	50,000	100,000		150,000
MO-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.		NAO DET.
NB-S	10,000	15,000	15,000	10,000	10,000		15,000
NI-S	50,000	70,000	50,000	30,000	50,000		50,000
PE-S	10,000	15,000	100,000	30,000	100,000		10,000
SE-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.		NAO DET.
SC-S	30,000	30,000	30,000	15,000	20,000		30,000
SN-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.		NAO DET.
SR-S	700,000	100,000	-100,000	-100,000	150,000		700,000
V-S	150,000	100,000	100,000	70,000	100,000		100,000
W-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.		NAO DET.
Y-S	50,000	50,000	50,000	30,000	50,000		70,000
ZN-S	NAO DET.	300,000	200,000	-200,000	300,000		NAO DET.
ZP-S	500,000	300,000	300,000	300,000	300,000		300,000
CU-AA	10,000	25,000	60,000	15,000	60,000	60,000	10,000
PB-AA	20,000	35,000	45,000	35,000	55,000	55,000	25,000
ZN-AA	20,000	260,000	110,000	60,000	200,000	200,000	25,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA							
NI-AA							
BI-AA							
CC-AA							
TF-AA							
AU-AA	NAC DET.	NAO DET.	NAC DET.	-0,050	NAO DET.		NAO DET.
AS-CCL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SE-CCL	NAC DET.	NAO DET.	-1,000	-1,000	1,000	1,000	NAO DET.

SOLOS DE BACKGROUND FOR.C DE ANDESITOS C. MARTINS

NUM. LAB.	JAC858	JAC862	JAC870	JAC872	JAC874	JAC874A	JAC879
NUM. CAMPO	ES0191	ES0196	CK0204	CK0206	CK0179A	CK0179A	ES0191A
CXCU-CCL							
MET PES							
CO-CCL							
MO-CCL							
W-CCL							
P-CCL							
SF-CCL							
U-CCL							



FOLHA DE CONTROLE - PROGRAMA PRGMCC7

\*\*\* OPCOES \*\*\*

ARQUIVO

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AMOSTRAS LIDAS 83

AMOSTRAS IMPRESSAS 83

N. INICIAL DA PAGINA 1

N. FINAL DA PAGINA 27

N. DE AMOSTRA INICIAL

N. DE AMOSTRAS FINAL





SOLOS DE PERFIS HCR.A DE ANDESITOS C. MARTINS

NUM. LAB.	JAC603	JAC605	JAC607	JAC609	JAC611	JAC613	JAC615	JAC617	JAC619	JAC621
NUM. CAMPO	PG0005	PG0007	PG0009	PG0011	PG0013	PG0015	PG0017	PG0019	PG0021	PG0023
AMB. BIOTICO										

PARÂMETROS ANALITICOS DE CAMPO

FF										
PH										
METAL TOTAL										
COCIF. LIVRE	C1091	C1071	C1051	C1031	C1011	C1001	C1021	C1041	C1061	C1081

PARÂMETROS ANALITICOS

FF-S	3,000	5,000	5,000	5,000	5,000	3,000	3,000	5,000	5,000	5,000
MG-S	0,700	0,500	0,700	0,500	0,500	0,300	0,300	0,500	0,700	0,500
CA-S	0,500	0,300	0,500	0,300	0,300	0,300	0,300	0,300	0,500	0,300
TI-S	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	+1,000	1,000
MN-S	2000,000	2000,000	3000,000	2000,000	2000,000	2000,000	2000,000	2000,000	5000,000	2000,000
AG-S	0,500	1,000	2,000	3,000	3,000	3,000	3,000	3,000	5,000	2,000
AS-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AL-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
B-S	10,000	10,000	10,000	10,000	10,000	-10,000	10,000	10,000	10,000	10,000
BA-S	1500,000	1000,000	2000,000	2000,000	2000,000	2000,000	1500,000	3000,000	3000,000	5000,000
BE-S	1,000	1,000	1,500	-1,000	1,000	1,000	1,000	1,500	1,500	1,000
BI-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
CD-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
CO-S	30,000	30,000	30,000	30,000	30,000	15,000	20,000	30,000	50,000	30,000
CR-S	200,000	200,000	200,000	200,000	200,000	100,000	100,000	150,000	150,000	200,000
CU-S	200,000	200,000	300,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000
LA-S	70,000	70,000	70,000	70,000	70,000	70,000	70,000	100,000	100,000	70,000
MO-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
NE-S	10,000	10,000	10,000	10,000	15,000	10,000	10,000	10,000	10,000	10,000
NI-S	50,000	30,000	30,000	30,000	30,000	20,000	30,000	30,000	50,000	30,000
PB-S	100,000	100,000	100,000	150,000	150,000	150,000	70,000	150,000	150,000	100,000
SE-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
SC-S	20,000	20,000	20,000	20,000	20,000	10,000	15,000	20,000	30,000	20,000
SN-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
SR-S	200,000	150,000	200,000	150,000	150,000	150,000	100,000	150,000	200,000	150,000
V-S	150,000	150,000	150,000	150,000	200,000	150,000	100,000	200,000	200,000	150,000
W-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
Y-S	50,000	50,000	50,000	50,000	50,000	30,000	50,000	50,000	70,000	50,000
ZN-S	200,000	200,000	200,000	-200,000	-200,000	200,000	200,000	200,000	200,000	200,000
ZR-S	300,000	150,000	300,000	300,000	300,000	300,000	300,000	300,000	500,000	300,000
CU-AA	100,000	130,000	190,000	300,000	330,000	380,000	350,000	300,000	270,000	270,000
PE-AA	50,000	40,000	40,000	35,000	40,000	35,000	40,000	35,000	40,000	35,000
ZN-AA	280,000	220,000	200,000	180,000	160,000	180,000	220,000	180,000	200,000	200,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BT-AA										
CF-AA										
TF-AA										
AU-AA	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AS-COL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SB-COL	1,000	1,000	1,000	1,000	2,000	1,000	1,000	1,000	2,000	1,000

















SCLOS DE PERFIS HCR.A DE ANDESITOS C. MARTINS

NUM. LAB.	JAC641	JAC643	JAC645	JAC647	JAC649	JAC651	JAC653	JAC657	JAC659	JAC661
NUM. CAMFO	PG0043	PG0045	PG0047	PG0049	PG0051	PG0053	PG0055	PG0059	PG0061	PG0063
AMB. BIOTICO										

PARAMETROS ANALITICOS DE CAMPO

EH										
PT										
METAL TOTAL										
CODIF. LIVRE	C2011	C2001	C2021	C2041	C2061	C2081	C2101	C2141	C3131	C3111

PARAMETROS ANALITICOS

FE-S %	7,000	10,000	10,000	10,000	5,000	7,000	7,000	10,000	5,000	7,000
MG-S %	0,700	0,700	0,700	0,700	0,700	0,700	0,500	0,700	0,700	0,700
CA-S %	0,300	0,500	0,500	0,300	0,300	0,300	0,300	-0,200	0,500	0,300
TI-S %	+1,000	+1,000	+1,000	+1,000	1,000	1,000	1,000	+1,000	1,000	+1,000
MN-S	2000,000	3000,000	2000,000	1500,000	2000,000	2000,000	2000,000	2000,000	2000,000	2000,000
AG-S	1,000	2,000	1,500	1,500	1,500	1,500	2,000	1,000	7,000	7,000
AS-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AL-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
B-S	-10,000	-10,000	10,000	10,000	10,000	10,000	10,000	10,000	-10,000	10,000
BA-S	2000,000	2000,000	2000,000	2000,000	1000,000	1500,000	2000,000	1500,000	3000,000	2000,000
BE-S	-1,000	-1,000	-1,000	-1,000	-1,000	-1,000	1,000	-1,000	-1,000	1,000
BI-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
CD-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
CO-S	50,000	70,000	50,000	70,000	30,000	50,000	50,000	70,000	50,000	50,000
CR-S	200,000	300,000	300,000	500,000	200,000	200,000	200,000	300,000	150,000	150,000
CU-S	200,000	200,000	200,000	200,000	200,000	200,000	300,000	300,000	2000,000	1500,000
LA-S	100,000	70,000	100,000	70,000	50,000	70,000	70,000	100,000	100,000	150,000
MO-S	NAC DET.	NAC DET.	NAC DET.	-5,000	-5,000	NAC DET.	NAC DET.	NAC DET.	NAC DET.	-5,000
NE-S	10,000	15,000	15,000	15,000	10,000	10,000	-10,000	20,000	10,000	15,000
NI-S	70,000	100,000	70,000	100,000	30,000	50,000	50,000	70,000	50,000	50,000
PE-S	150,000	150,000	70,000	150,000	100,000	100,000	100,000	150,000	150,000	150,000
SE-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
SC-S	30,000	30,000	30,000	30,000	20,000	30,000	30,000	30,000	20,000	30,000
SN-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
SR-S	150,000	150,000	150,000	100,000	100,000	100,000	150,000	100,000	150,000	100,000
V-S	200,000	200,000	200,000	200,000	150,000	150,000	150,000	200,000	150,000	200,000
W-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
Y-S	70,000	70,000	70,000	70,000	50,000	50,000	50,000	70,000	70,000	100,000
ZN-S	-200,000	-200,000	200,000	-200,000	-200,000	200,000	300,000	-200,000	-200,000	200,000
ZR-S	500,000	500,000	300,000	300,000	300,000	300,000	200,000	500,000	300,000	300,000
CU-AA	100,000	100,000	100,000	110,000	110,000	120,000	160,000	180,000	+1000,000	710,000
PE-AA	30,000	30,000	30,000	30,000	30,000	40,000	30,000	45,000	40,000	35,000
ZN-AA	190,000	180,000	180,000	180,000	190,000	190,000	190,000	170,000	160,000	190,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CC-AA										
TE-AA										
AU-AA	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AS-CCL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SE-CCL	2,000	1,000	2,000	2,000	1,000	1,000	-1,000	2,000	1,000	1,000



















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PROJETO - LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

## SOLOS DE PERFIS HCP.A DE ANDESITOS C. MARTINS

NUM. LAB.	JAC681	JAC683	JAC685	JAC687	JAC689	JAC693	JAC695	JAC696	JAC697	JAC700
NUM. CAMPO	PG0083	PG0085	PG0087	PG0089	PG0096	PG0100	PG0102	PG0103	PG0104	PG0005A
AMB. BICTICO										
PARAMETROS ANALITICOS DE CAMPO										
EF										
PF										
METAL TOTAL										
CODIF. LIVRE	C3081	C3101	C3121	C3141	C2072	C3112	C3072	C3062	C3122	C109:
PARAMETROS ANALITICOS										
FE-S %	10,000	10,000	10,000	7,000	15,000	7,000	10,000	7,000	10,000	7,000
MG-S %	0,700	0,500	0,500	0,500	1,000	0,700	0,700	0,500	0,500	1,000
CA-S %	0,500	0,500	0,700	0,500	0,500	0,500	0,500	0,700	0,500	0,700
TI-S %	+1,000	+1,000	+1,000	1,000	+1,000	+1,000	+1,000	1,000	+1,000	+1,000
MN-S	3000,000	2000,000	3000,000	3000,000	3000,000	3000,000	3000,000	1000,000	2000,000	2000,000
AG-S	1,500	1,500	1,500	1,000	1,500	5,000	2,000	0,500	1,500	1,000
AS-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AU-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
B-S	-10,000	10,000	10,000	10,000	10,000	-10,000	10,000	-10,000	10,000	10,000
BA-S	2000,000	2000,000	5000,000	2000,000	5000,000	3000,000	2000,000	1000,000	3000,000	1500,000
BE-S	1,000	1,000	1,500	2,000	1,000	2,000	1,000	1,000	-1,000	-1,000
BI-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CC-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CO-S	30,000	50,000	50,000	30,000	100,000	50,000	100,000	50,000	70,000	70,000
CR-S	150,000	150,000	150,000	150,000	300,000	70,000	300,000	200,000	200,000	500,000
CU-S	150,000	200,000	500,000	500,000	300,000	1500,000	1000,000	200,000	500,000	200,000
LA-S	70,000	100,000	100,000	100,000	100,000	150,000	100,000	70,000	100,000	70,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
NB-S	15,000	20,000	15,000	15,000	15,000	10,000	10,000	10,000	10,000	10,000
NI-S	30,000	50,000	50,000	30,000	100,000	50,000	70,000	30,000	50,000	100,000
PE-S	150,000	150,000	150,000	150,000	150,000	100,000	150,000	150,000	150,000	150,000
SB-S	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SC-S	30,000	30,000	30,000	20,000	30,000	30,000	30,000	20,000	30,000	30,000
SN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SR-S	200,000	200,000	200,000	200,000	200,000	200,000	100,000	100,000	150,000	200,000
V-S	300,000	200,000	300,000	200,000	300,000	200,000	200,000	150,000	150,000	300,000
W-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
Y-S	70,000	70,000	70,000	50,000	70,000	70,000	70,000	70,000	70,000	70,000
ZN-S	200,000	-200,000	200,000	300,000	200,000	200,000	200,000	-200,000	-200,000	200,000
ZR-S	500,000	500,000	500,000	500,000	500,000	300,000	300,000	200,000	300,000	300,000
CU-AA	75,000	50,000	50,000	180,000	100,000	740,000	360,000	100,000	160,000	75,000
PE-AA	30,000	30,000	30,000	40,000	40,000	40,000	30,000	30,000	30,000	45,000
ZN-AA	180,000	190,000	150,000	160,000	230,000	210,000	210,000	150,000	140,000	270,000
AG-AA	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	INTERFER.	NAO DET.	NAO DET.	NAO DET.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CC-AA										
TE-AA										
AU-AA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AS-CCL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SB-CCL	2,000	1,000	1,000	-1,000	-1,000	2,000	1,000	1,000	2,000	1,000









SOLCS DE PERFIS HCR.A DE ANDESITOS C. MARTINS

NUM. LAB.	JAC701	JAC702	JAC703	JAC706	JAC817	JAC818	JAC820	JAC823	JAC824	JAC824A
NUM. CAMFC	PG0021A	PG0029A	PG0033A	PG0045A	PG0092	PG0093	CK0144	CKC148	CK0149	CK0149
AMB. BIOTICO										

PARAMETROS ANALITICOS DE CAMPO

FH										
PF										
METAL TOTAL										
CODIF. LIVRE	C1063	C1143	C2113	C2003	C1042	C1082	C1022	C1142	C1112	C1111

PARAMETROS ANALITICOS

FF-S %	10,000	7,000	10,000	10,000	7,000	5,000	5,000	2,000	5,000	
MG-S %	0,700	0,500	0,700	0,700	0,500	0,700	0,500	0,300	0,500	
CA-S %	0,500	0,200	0,500	0,500	0,300	0,300	0,500	0,200	0,300	
TI-S %	+1,000	1,000	+1,000	+1,000	+1,000	+1,000	+1,000	1,000	1,000	
MN-S	3000,000	2000,000	2000,000	3000,000	3000,000	3000,000	3000,000	2000,000	1500,000	
AG-S	5,000	1,000	1,500	1,500	3,000	2,000	5,000	0,500	NAO DET.	
AS-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	
AU-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	
B-S	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	20,000	
BA-S	5000,000	1500,000	1500,000	2000,000	3000,000	3000,000	2000,000	1500,000	1000,000	
BE-S	1,000	-1,000	-1,000	-1,000	1,500	1,000	1,000	1,500	1,500	
BI-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	
CD-S	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	
CO-S	100,000	50,000	100,000	70,000	70,000	50,000	50,000	20,000	20,000	
CR-S	300,000	300,000	500,000	500,000	200,000	150,000	150,000	100,000	200,000	
CL-S	700,000	300,000	300,000	200,000	500,000	300,000	500,000	200,000	70,000	
LA-S	100,000	70,000	100,000	100,000	100,000	100,000	70,000	50,000	30,000	
MO-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	
NB-S	10,000	10,000	15,000	10,000	10,000	10,000	10,000	10,000	10,000	
NI-S	70,000	50,000	100,000	70,000	70,000	50,000	30,000	30,000	30,000	
PE-S	150,000	150,000	150,000	150,000	150,000	150,000	150,000	100,000	70,000	
SP-S	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	
SC-S	30,000	20,000	30,000	30,000	30,000	30,000	30,000	20,000	20,000	
SN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	
SR-S	200,000	100,000	150,000	150,000	150,000	150,000	150,000	-100,000	200,000	
V-S	150,000	200,000	200,000	200,000	200,000	200,000	200,000	150,000	150,000	
W-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	
Y-S	70,000	50,000	70,000	70,000	70,000	70,000	50,000	30,000	30,000	
ZN-S	-200,000	-200,000	200,000	200,000	200,000	200,000	200,000	200,000	-200,000	
ZR-S	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	
CU-AA	250,000	150,000	150,000	100,000	310,000	280,000	300,000	180,000	35,000	35,000
PE-AA	35,000	35,000	40,000	25,000	50,000	50,000	45,000	45,000	30,000	30,000
ZN-AA	180,000	140,000	180,000	200,000	190,000	210,000	220,000	150,000	0,000	110,000
AG-AA	INTERFER.	NAO DET.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CC-AA										
TE-AA										
AU-AA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	-0,050	NAO DET.	NAO DET.	NAO DET.	NAC DET.	
AS-CCL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SB-CCL	1,000	-1,000	1,000	1,000	-1,000	-1,000	1,000	-1,000	-1,000	-1,000











SCLOS DE PERFIS HCR.A DE ANDESITOS C. MARTINS

NUM. LAB. NUM. CAMPO AMB. BIOTICO	JAC825 ES0150	JAC826 ESC152	JAC827 ESC154	JAC829 ES0157	JAC833 ES0162	JAC875 ES0152A	JAD747 CK0584	JAD748 CK0585	JAD749 CK0586	JAC750 CK0587
PARAMETROS ANALITICOS DE CAMPO										
EH										
PH										
METAL TOTAL										
CODIF. LIVRE	C2022	C2062	C2102	C2132	C3092	C2063	C4061	C4081	C4101	C4121
PARAMETROS ANALITICOS										
FE-S %	7,000	7,000	5,000	7,000	5,000	7,000	10,000	7,000	15,000	7,000
MG-S %	0,700	0,700	0,500	0,700	0,700	0,700	1,000	1,000	1,500	1,000
CA-S %	0,500	0,500	0,300	0,700	0,500	0,500	0,300	0,300	0,300	0,500
TI-S %	+1,000	+1,000	+1,000	+1,000	+1,000	+1,000	+1,000	1,000	+1,000	1,000
MN-S	5000,000	3000,000	3000,000	2000,000	5000,000	2000,000	5000,000	5000,000	3000,000	2000,000
AG-S	1,000	1,500	1,500	1,000	2,000	2,000	1,000	0,500	0,500	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
AU-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
B-S	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	10,000	10,000	10,000	10,000
BA-S	3000,000	3000,000	3000,000	2000,000	3000,000	3000,000	2000,000	5000,000	1500,000	1000,000
BE-S	1,500	1,000	1,000	1,500	3,000	-1,000	1,000	1,000	-1,000	1,000
BI-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CD-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CO-S	50,000	30,000	30,000	50,000	50,000	50,000	50,000	30,000	50,000	30,000
CR-S	200,000	100,000	150,000	200,000	70,000	200,000	150,000	150,000	150,000	150,000
CU-S	200,000	200,000	200,000	200,000	1000,000	200,000	500,000	200,000	150,000	100,000
LA-S	100,000	100,000	70,000	100,000	100,000	100,000	50,000	50,000	50,000	50,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
NE-S	15,000	10,000	10,000	10,000	10,000	10,000	20,000	20,000	20,000	10,000
NI-S	50,000	50,000	50,000	50,000	30,000	70,000	70,000	50,000	70,000	50,000
PE-S	150,000	150,000	150,000	100,000	70,000	100,000	100,000	100,000	100,000	50,000
SE-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SC-S	30,000	30,000	30,000	30,000	30,000	30,000	30,000	20,000	30,000	20,000
SN-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SR-S	200,000	200,000	150,000	200,000	100,000	150,000	100,000	100,000	150,000	150,000
V-S	300,000	200,000	200,000	300,000	200,000	200,000	200,000	150,000	200,000	150,000
W-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
Y-S	70,000	70,000	70,000	70,000	70,000	70,000	70,000	50,000	70,000	50,000
ZN-S	200,000	200,000	200,000	300,000	300,000	200,000	300,000	300,000	300,000	500,000
ZR-S	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	200,000
CU-AA	120,000	140,000	150,000	150,000	630,000	130,000	260,000	140,000	100,000	70,000
PE-AA	45,000	40,000	40,000	50,000	45,000	40,000	50,000	55,000	55,000	45,000
ZN-AA	200,000	200,000	220,000	300,000	210,000	200,000	260,000	270,000	250,000	280,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CC-AA										
TE-AA										
AU-AA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AS-CCL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SE-COL	1,000	-1,000	-1,000	1,000	-1,000	1,000	-1,000	-1,000	-1,000	1,000









SOLOS DE PERFIS HCR.A DE ANDESITOS C. MARTINS

NUM. LAB.	JAC757	JAD759	JAD761	JAC763	JAD765	JAC767	JAC769	JAD771	JAD773	JAC775
NUM. CAMPO	CK0594	CK0596	CK0598	CK0600	CK0602	CK0604	CK0606	CK0608	CK0610	CK0612
AMB. BICTICO										

PARAMETROS ANALITICOS DE CAMPO

EH										
PF										
METAL TOTAL										
CODIF. LIVRE	C5021	C5041	C5061	C5081	C5101	C5121	C5011	C5031	C5051	C5071

PARAMETROS ANALITICOS

FE-S %	10,000	7,000	7,000	5,000	5,000	5,000	5,000	15,000	10,000	10,000
MG-S %	0,500	0,500	0,500	0,500	0,700	0,500	0,500	0,700	0,700	0,700
CA-S %	0,150	0,150	0,150	0,200	0,500	0,700	0,200	0,150	0,150	0,500
TI-S %	+1,000	+1,000	1,000	1,000	+1,000	1,000	1,000	+1,000	+1,000	1,000
MN-S	5000,000	5000,000	2000,000	3000,000	3000,000	5000,000	3000,000	2000,000	2000,000	3000,000
AG-S	3,000	3,000	0,500	0,500	0,500	2,000	3,000	3,000	2,000	3,000
AS-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AL-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
B-S	20,000	30,000	20,000	10,000	10,000	30,000	10,000	10,000	10,000	20,000
BA-S	5000,000	3000,000	2000,000	3000,000	3000,000	5000,000	+5000,000	+5000,000	5000,000	5000,000
BE-S	1,000	1,500	1,000	1,500	1,000	1,000	1,000	1,000	1,000	1,000
BI-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	-10,000	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CO-S	30,000	30,000	30,000	20,000	30,000	20,000	20,000	30,000	30,000	30,000
CR-S	150,000	100,000	150,000	100,000	100,000	100,000	100,000	150,000	150,000	150,000
CU-S	200,000	200,000	150,000	150,000	150,000	200,000	300,000	200,000	200,000	300,000
LA-S	100,000	100,000	70,000	100,000	100,000	100,000	70,000	100,000	70,000	100,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
NB-S	20,000	30,000	30,000	30,000	20,000	20,000	20,000	30,000	30,000	30,000
NI-S	30,000	30,000	50,000	30,000	30,000	30,000	50,000	50,000	30,000	30,000
PE-S	100,000	100,000	70,000	100,000	100,000	70,000	100,000	150,000	100,000	150,000
SE-S	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SC-S	20,000	20,000	20,000	20,000	20,000	20,000	20,000	30,000	20,000	20,000
SN-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SR-S	100,000	100,000	100,000	150,000	150,000	100,000	200,000	150,000	150,000	150,000
V-S	150,000	100,000	150,000	150,000	150,000	150,000	100,000	150,000	150,000	150,000
W-S	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
Y-S	50,000	70,000	50,000	70,000	70,000	70,000	50,000	70,000	50,000	50,000
ZN-S	-200,000	-200,000	200,000	300,000	200,000	-200,000	200,000	200,000	200,000	200,000
ZR-S	500,000	300,000	500,000	500,000	300,000	300,000	200,000	300,000	500,000	300,000
CU-AA	160,000	110,000	65,000	65,000	65,000	100,000	180,000	140,000	130,000	170,000
PE-AA	45,000	40,000	35,000	40,000	40,000	25,000	50,000	70,000	55,000	60,000
ZN-AA	120,000	130,000	140,000	140,000	170,000	110,000	150,000	140,000	140,000	140,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CC-AA										
TE-AA										
AU-AA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
AS-CCL	10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	10,000	-10,000
SB-CCL	1,000	1,000	-1,000	1,000	1,000	2,000	1,000	1,000	1,000	2,000





S E A G

PROJETO LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

## SCLOS DE PERFIS HCR.A DE ANDESITOS C. MARTINS

NUM. LAB.	JAC777	JAD779	JAD779A
NUM. CAMFO	CK0614	CK0616	CK0616
C. CLUSTO	1533	1533	1533
S. CUSTO	300	300	300
PROCECENCIA	AD	AD	AC
BASE CART.	SH22MIV1	SH22MIV1	SH22MIV1
BASE CART.			
BASE CART.			
ESCALA	0050	0050	0050
DATA	09/75	09/75	09/75
LATITUDE			
LONGITUDE			
ABCISSA - X	0000	0000	0000
ORDENADA - Y	0000	0000	0000
UTM - LAT.	264230	264230	264230
UTM - LONG.	06599568	06599536	06599536
MER. CENT.	51	51	51

## PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	L	L	L
TIPC AMOST.	B	B	B
FNTE AMOST.	C	C	C
ROCHA REC.	X	X	X
ID. GEOLG.	CI	CI	CI
MAT. CCLFT.	SOLO	SOLO	SOLC
PLUVIOSIDADE	A	A	A
TIPO VEGET.	A	A	A
SIT. TCCG.	D	D	D
SIT. AMOST.			
ALTITUDE			
PROF. AMOST.	0,05	0,05	0,05
FORMA IGNEA			
SIT. ESTRUT.			
MATRIZ PREC.			
GRAU INTMP.			
TIPO ALTER.			
TIPO MINER.			
DEP. CCCR.			
LARGURA RIO			
PROFUND. RIO			
VELOC. CORR.			
NIVEL AGUA			
AREA DRENAG.			
TURB. AGUA			
POS. CCLETA			
COR AGUA			
GRAU AFREC.			
VOL. CRIGIN.			
PESO CCNC.			
GRANULMET.			
TEXT. SECIM.	4321	3331	3331
COR SEC./SL.	C	C	C
HORIZ. SCLO	A	A	A
TIPO SCLC	C	C	C

## SCLCS DE PERFIS HCR.A DE ANDESITOS C. MARTINS

NUM. LAB.	JAD777	JAD77S	JAD779A
NUM. CAMPO	CK0614	CK0616	CK0616
AMB. BIOTICO			

## PARAMETROS ANALITICOS DE CAMPO

EH			
PF			
METAL TOTAL			
COCIF. LIVRE	C5091	C5111	C5111

## PARAMETROS ANALITICOS

FE-S %	10,000	10,000	
MG-S %	0,700	0,700	
CA-S %	0,500	0,150	
TI-S %	1,000	1,000	
MN-S	2000,000	2000,000	
AG-S	1,000	1,000	
AS-S	NAD DET.	NAD DET.	
AU-S	NAD DET.	NAD DET.	
B-S	20,000	10,000	
BA-S	5000,000	1500,000	
BE-S	1,000	1,000	
BI-S	-10,000	NAD DET.	
CC-S	NAD DET.	NAD DET.	
CO-S	30,000	30,000	
CR-S	150,000	150,000	
CU-S	150,000	150,000	
LA-S	70,000	70,000	
MO-S	NAD DET.	NAD DET.	
NE-S	30,000	30,000	
NI-S	30,000	20,000	
PB-S	150,000	150,000	
SE-S	NAD DET.	NAD DET.	
SC-S	20,000	20,000	
SN-S	NAD DET.	NAD DET.	
SR-S	150,000	100,000	
V-S	150,000	150,000	
W-S	NAD DET.	NAD DET.	
Y-S	50,000	50,000	
ZN-S	200,000	200,000	
ZR-S	500,000	500,000	
CU-AA	90,000	120,000	120,000
PE-AA	55,000	55,000	60,000
ZN-AA	150,000	150,000	150,000
AG-AA	INTERFER.	INTERFER.	INTERFER.
CO-AA			
NI-AA			
BI-AA			
CC-AA			
TE-AA			
AU-AA	NAD DET.	NAD DET.	
AS-CCL	10,000	10,000	10,000
SB-CCL	2,000	2,000	2,000

SCLOS DE PERFIS HCR.A DE ANDESITOS C. MARTINS

NUM. LAB.	JAD777	JAD779	JAD779A
NUM. CAMFC	CK0614	CKC616	CKC616
CXCU-CCL			
MET PES			
CO-CCL			
MO-CCL			
W-CCL			
P-CCL			
SE-CCL			
U-CCL			

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FOLHA DE CONTROLE - PROGRAMA PRGCMCC7

\*\*\* OPCOES \*\*\*

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AMOSTRAS LIDAS 80

AMOSTRAS IMPRESSAS 80

N. INICIAL DA PAGINA 1

N. FINAL DA PAGINA 24

N. DE AMOSTRA INICIAL

N. DE AMOSTRAS FINAL





SOLCS DE FERFIS HOR.C DE ANDESITOS C. MARTINS

NUM. LAB. NUM. CAMPO AMB. BICTICO	JAC604 PG0006	JAC606 PG0008	JAC608 PG0010	JAC608A PG0010	JAC610 PG0012	JAC612 PG0014	JAC614 PG0016	JAC616 PG0018	JAC618 PG0020	JAC620 PG0022
FAFAMETROS ANALITICOS DE CAMPO										
EF PT. METAL TOTAL CODIF. LIVRE	C1091	C1071	C1051	C1051	C1031	C1011	C1001	C1021	C1041	C1061
FAFAMETROS ANALITICOS										
FF-S %	5,000	3,000	5,000		3,000	5,000	3,000	3,000	7,000	5,000
MG-S %	2,000	1,000	1,000		0,300	0,500	0,300	0,300	0,700	1,000
CA-S %	0,700	0,300	0,500		0,300	0,300	0,200	0,300	0,300	0,500
TI-S %	1,000	1,000	1,000		1,000	1,000	1,000	1,000	1,000	1,000
MN-S	2000,000	2000,000	1500,000		3000,000	5000,000	5000,000	+5000,000	2000,000	2000,000
AG-S	1,000	0,500	1,500		5,000	15,000	50,000	30,000	3,000	3,000
AS-S	NAC DET.	NAO DET.	NAC DET.		NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AL-S	NAO DET.	NAO DET.	NAC DET.		NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
P-S	10,000	-10,000	10,000		-10,000	10,000	10,000	10,000	10,000	10,000
BA-S	1000,000	1000,000	1000,000		2000,000	3000,000	+5000,000	+5000,000	2000,000	5000,000
BE-S	1,000	-1,000	-1,000		-1,000	1,500	1,000	1,500	-1,000	1,500
BI-S	NAO DET.	NAO DET.	NAC DET.		NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CI-S	NAC DET.	NAO DET.	NAO DET.		NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CO-S	50,000	30,000	50,000		20,000	50,000	10,000	20,000	50,000	30,000
CR-S	200,000	300,000	100,000		70,000	300,000	50,000	70,000	150,000	150,000
CU-S	300,000	150,000	300,000		300,000	1000,000	2000,000	7000,000	700,000	700,000
LA-S	70,000	50,000	70,000		100,000	70,000	150,000	150,000	70,000	70,000
MO-S	NAC DET.	NAO DET.	NAO DET.		NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
NB-S	10,000	-10,000	10,000		-10,000	10,000	10,000	10,000	15,000	10,000
NI-S	70,000	50,000	30,000		30,000	100,000	20,000	30,000	50,000	30,000
PB-S	150,000	70,000	100,000		150,000	150,000	150,000	150,000	150,000	150,000
SP-S	NAC DET.	NAO DET.	NAC DET.		NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SC-S	20,000	30,000	20,000		15,000	20,000	20,000	20,000	30,000	30,000
SN-S	NAC DET.	NAO DET.	NAC DET.		NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SR-S	200,000	200,000	200,000		-100,000	100,000	500,000	200,000	100,000	150,000
V-S	150,000	100,000	100,000		100,000	200,000	100,000	100,000	200,000	100,000
W-S	NAC DET.	NAO DET.	NAC DET.		NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
Y-S	50,000	30,000	50,000		50,000	50,000	70,000	70,000	70,000	50,000
ZN-S	500,000	200,000	200,000		-200,000	200,000	-200,000	-200,000	-200,000	200,000
ZR-S	200,000	200,000	300,000		200,000	300,000	200,000	300,000	300,000	300,000
CU-AA	200,000	75,000	300,000	300,000	380,000	600,000	+1000,000	+1000,000	380,000	320,000
PE-AA	50,000	40,000	35,000	35,000	40,000	40,000	30,000	40,000	35,000	30,000
ZN-AA	500,000	230,000	250,000	250,000	140,000	150,000	110,000	100,000	160,000	210,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	12,000	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CI-AA										
TE-AA										
AU-AA	NAC DET.	NAO DET.	NAC DET.		NAO DET.	NAO DET.	4,000	NAO DET.	NAC DET.	NAC DET.
AS-CCL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	10,000	10,000	-10,000	-10,000
SE-CCL	-1,000	1,000	1,000	1,000	2,000	2,000	1,000	2,000	2,000	2,000























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PROJETO Levantamento GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

## SCLOS DE PERFIS HCR.C DE ANDESITOS G. MARTINS

NUM. LAB. NUM. CAMFC AMB. BIOTICO	JAC662 PG0064	JAC664 PG0066	JAC666 PG0068	JAC668 PG0070	JAC670 PG0072	JAC672 PG0074	JAC674 PG0076	JAC676 PG0078	JAC678 PG0080	JAC680 PG0082
PARAMETROS ANALITICOS DE CAMPO										
EH PT METAL TOTAL CONDIF. LIVRE	C3111	C3091	C3071	C3051	C3031	C3011	C3021	C3041	C3061	C3081
PARAMETROS ANALITICOS										
FE-S %	7,000	5,000	10,000	7,000	7,000	7,000	7,000	5,000	10,000	10,000
MG-S %	1,000	0,700	1,000	0,700	0,700	1,000	0,700	0,700	0,700	1,000
CA-S %	0,500	0,500	0,500	0,700	0,500	0,700	0,300	0,300	0,500	0,700
TI-S %	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	+1,000	+1,000
MN-S	5000,000	3000,000	3000,000	5000,000	+5000,000	+5000,000	2000,000	+5000,000	3000,000	3000,000
AG-S	7,000	3,000	5,000	2,000	10,000	10,000	5,000	1,000	2,000	1,000
AS-S	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
AU-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
B-S	10,000	10,000	10,000	10,000	10,000	10,000	10,000	-10,000	15,000	10,000
BA-S	2000,000	2000,000	2000,000	3000,000	5000,000	+5000,000	2000,000	1500,000	2000,000	2000,000
BC-S	-1,000	1,500	-1,000	2,000	2,000	2,000	2,000	2,000	1,500	1,000
BI-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CC-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CD-S	100,000	70,000	70,000	70,000	70,000	100,000	50,000	50,000	30,000	100,000
CR-S	200,000	100,000	200,000	70,000	100,000	70,000	70,000	50,000	150,000	150,000
CU-S	1000,000	1000,000	1000,000	1500,000	1500,000	2000,000	1500,000	700,000	700,000	100,000
LA-S	200,000	200,000	150,000	100,000	300,000	300,000	100,000	150,000	150,000	150,000
MO-S	-5,000	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
NB-S	10,000	-10,000	10,000	15,000	10,000	10,000	10,000	10,000	15,000	15,000
NI-S	70,000	50,000	100,000	50,000	50,000	70,000	50,000	70,000	50,000	70,000
PE-S	150,000	30,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000
SB-S	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SC-S	30,000	30,000	30,000	30,000	20,000	30,000	30,000	30,000	30,000	30,000
SN-S	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SR-S	100,000	100,000	-100,000	200,000	150,000	200,000	100,000	-100,000	150,000	300,000
V-S	200,000	150,000	200,000	150,000	150,000	200,000	200,000	150,000	200,000	200,000
W-S	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
Y-S	100,000	100,000	100,000	70,000	70,000	70,000	50,000	50,000	70,000	70,000
ZN-S	300,000	300,000	200,000	200,000	-200,000	200,000	200,000	200,000	-200,000	200,000
ZF-S	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	500,000	500,000
CU-AA	480,000	540,000	380,000	600,000	+1000,000	+1000,000	770,000	400,000	300,000	50,000
PE-AA	30,000	25,000	30,000	40,000	50,000	70,000	30,000	50,000	30,000	30,000
ZN-AA	270,000	220,000	200,000	160,000	160,000	160,000	150,000	140,000	100,000	210,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CC-AA										
TF-AA										
AU-AA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AS-CCL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SB-CCL	-1,000	-1,000	1,000	1,000	1,000	-1,000	-1,000	2,000	1,000	-1,000







SCLOS DE PERFIS POR.C DE ANDESITOS C. MARTINS

NUM. L.A.E.	JAC682	JAC684	JAC686	JAC688	JAC690	JAC691	JAC692	JAC694	JAC700A	JAC704
NUM. CAMPO	PG0084	PG0086	PG0088	PG0095	PG0097	PG0098	PG0099	PG0101	PG0005A	PG0036A
AMB. BIOTICO										

PARAMETROS ANALITICOS DE CAMPO

ET										
PT										
METAL TOTAL										
CODIF. LIVRE	C3101	C3121	C3141	C2132	C2022	C2062	C2102	C3092	C1093	C2093

PARAMETROS ANALITICOS

FF-S %	7,000	10,000	7,000	10,000	15,000	10,000	10,000	10,000		10,000
MG-S %	0,500	0,700	1,000	1,000	1,000	1,000	1,000	1,000	0,700	1,000
CA-S %	0,500	0,500	0,500	0,700	0,700	0,500	0,500	0,500	0,300	0,700
TI-S %	+1,000	1,000	1,000	+1,000	+1,000	+1,000	1,000	1,000	1,000	+1,000
MN-S	3000,000	+5000,000	1500,000	3000,000	5000,000	3000,000	1500,000	5000,000		3000,000
AG-S	1,000	1,000	2,000	1,500	1,500	2,000	1,500	7,000		1,000
AS-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.		NAC DET.
AL-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.		NAC DET.
B-S	-10,000	10,000	10,000	10,000	10,000	-10,000	-10,000	10,000		-10,000
BA-S	+5000,000	+5000,000	1500,000	2000,000	5000,000	1500,000	1000,000	2000,000		1000,000
BE-S	1,000	2,000	2,000	2,000	-1,000	-1,000	1,000	1,000		-1,000
BT-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.		NAC DET.
CC-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.		NAC DET.
CD-S	20,000	100,000	50,000	50,000	150,000	100,000	70,000	100,000		100,000
CR-S	150,000	100,000	100,000	150,000	150,000	200,000	300,000	150,000		300,000
CU-S	150,000	300,000	1000,000	300,000	200,000	50,000	200,000	1000,000		200,000
LA-S	100,000	200,000	70,000	150,000	150,000	100,000	70,000	150,000		100,000
MA-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.		NAC DET.
ME-S	10,000	15,000	10,000	15,000	15,000	15,000	10,000	10,000		10,000
NI-S	20,000	70,000	50,000	70,000	150,000	100,000	150,000	70,000		100,000
PE-S	150,000	100,000	100,000	100,000	150,000	100,000	100,000	70,000		150,000
SE-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.		NAC DET.
SC-S	30,000	30,000	30,000	30,000	50,000	30,000	50,000	30,000		30,000
SN-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.		NAC DET.
SR-S	200,000	200,000	100,000	300,000	300,000	200,000	100,000	-100,000		300,000
V-S	200,000	300,000	200,000	300,000	300,000	200,000	150,000	200,000		150,000
W-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.		NAC DET.
Y-S	70,000	70,000	50,000	100,000	100,000	70,000	70,000	100,000		70,000
ZN-S	-200,000	300,000	300,000	500,000	200,000	-200,000	200,000	200,000		200,000
ZR-S	300,000	300,000	500,000	500,000	500,000	300,000	300,000	300,000		300,000
CU-AA	100,000	150,000	540,000	140,000	60,000	25,000	75,000	450,000	75,000	100,000
PF-AA	35,000	55,000	30,000	40,000	30,000	20,000	25,000	25,000	45,000	40,000
ZN-AA	110,000	190,000	260,000	270,000	210,000	210,000	230,000	180,000	270,000	330,000
AG-AA	NAC DET.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	NAC DET.	NAC DET.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BJ-AA										
CC-AA										
TE-AA										
AU-AA	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.		NAC DET.
AS-CC	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SE-CC	2,000	2,000	-1,000	-1,000	1,000	-1,000	1,000	1,000	1,000	-1,000







S E A G

PROJETO LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

## SOLCS DE PERFIS HCR.C DE ANDESITOS C. MARTINS

NUM. LAB.	JAC705	JAC707	JAC708	JAC709	JAC710	JAC711	JAC712	JAC816	JAC819	JAC821
NUM. CAMPO	PG0044A	PG0054A	PG0068A	PG0072A	PG0078A	PG0084A	PG0086A	PG0091	PG0094	CK0145
AMB. BIOTICO										
PARAMETROS ANALITICOS DE CAMPO										
EF										
PT										
METAL TOTAL										
CODIF. LIVRE	C2013	C2083	C3073	C3033	C3043	C3103	C2123	C1022	C1142	C1043
PARAMETROS ANALITICOS										
FF-S %	10,000	10,000	7,000	7,000	7,000	7,000	10,000	5,000	10,000	5,000
MG-S %	0,700	1,000	1,000	0,700	1,000	0,700	1,000	0,700	1,000	0,700
CA-S %	0,500	0,700	0,500	0,500	0,500	0,500	0,700	0,300	0,500	0,500
TI-S %	1,000	+1,000	1,000	1,000	1,000	+1,000	+1,000	1,000	+1,000	+1,000
MN-S	5000,000	3000,000	3000,000	+5000,000	+5000,000	3000,000	+5000,000	5000,000	5000,000	3000,000
AG-S	1,000	1,500	5,000	20,000	1,000	1,000	1,500	7,000	0,500	3,000
AS-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AL-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
B-S	-10,000	10,000	10,000	10,000	10,000	-10,000	10,000	-10,000	10,000	10,000
BA-S	2000,000	2000,000	2000,000	5000,000	2000,000	+5000,000	+5000,000	3000,000	2000,000	3000,000
BE-S	-1,000	-1,000	1,000	-1,000	-1,000	-1,000	1,500	1,500	1,500	1,500
BI-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
CD-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
CO-S	100,000	150,000	70,000	70,000	150,000	50,000	150,000	70,000	100,000	30,000
CR-S	150,000	300,000	200,000	300,000	200,000	200,000	200,000	100,000	150,000	100,000
CU-S	150,000	200,000	700,000	15000,000	1000,000	200,000	500,000	1000,000	150,000	500,000
LA-S	150,000	150,000	70,000	200,000	200,000	150,000	200,000	100,000	100,000	70,000
MO-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
NB-S	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
NI-S	150,000	150,000	70,000	70,000	150,000	70,000	150,000	70,000	100,000	30,000
PE-S	150,000	150,000	150,000	200,000	150,000	200,000	150,000	150,000	150,000	150,000
SB-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
SC-S	30,000	30,000	30,000	20,000	50,000	30,000	30,000	30,000	50,000	30,000
SN-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
SR-S	200,000	200,000	-100,000	100,000	100,000	200,000	200,000	-100,000	100,000	200,000
V-S	150,000	150,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000
W-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
Y-S	70,000	70,000	70,000	70,000	70,000	70,000	70,000	50,000	70,000	70,000
ZN-S	-200,000	200,000	200,000	-200,000	200,000	-200,000	200,000	200,000	200,000	200,000
ZR-S	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000
CU-AA	50,000	100,000	400,000	+1000,000	510,000	100,000	150,000	800,000	100,000	320,000
PF-AA	45,000	45,000	35,000	50,000	50,000	35,000	40,000	40,000	60,000	45,000
ZN-AA	100,000	230,000	200,000	170,000	170,000	90,000	170,000	170,000	250,000	140,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	NAC DET.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BJ-AA										
CE-AA										
TE-AA										
AU-AA	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	-0,050	NAC DET.	NAC DET.
AS-CCL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SB-CCL	1,000	-1,000	1,000	1,000	1,000	2,000	2,000	-1,000	NAC DET.	1,000







SOLCS DE PERFIS HCR.C DE ANDESITOS C. MARTINS

NUM. LAR.	JAC822	JAC828	JAC830	JAC831	JAC832	JAC834	JAC876	JAC877	JAC878	JAC879
NUM. CAMPC	CK0146	ES0155	ESC158	ES0160	ES0161	ES0163	ES0155A	ESC158A	CK0595	CK0597
AMB. BIOTICO										
PARAMETROS ANALITICOS DE CAMPO										
EF										
PF										
METAL TOTAL										
CODIF. LIVRE	C1082	C2052	C3062	C3122	C3072	C3112	C2053	C3063	C5021	C5041
PARAMETROS ANALITICOS										
FF-S %	10,000	7,000	5,000	7,000	5,000	10,000	5,000	5,000	5,000	15,000
MG-S %	2,000	1,000	0,500	0,500	0,700	1,000	0,700	0,500	0,700	2,000
CA-S %	0,700	0,700	0,300	0,500	0,700	0,300	0,500	0,300	0,150	0,500
TI-S %	+1,000	+1,000	+1,000	1,000	+1,000	+1,000	1,000	+1,000	1,000	1,000
MN-S	5000,000	1500,000	5000,000	5000,000	5000,000	3000,000	1500,000	3000,000	3000,000	1000,000
AG-S	1,000	1,000	2,000	0,500	3,000	7,000	2,000	2,000	1,000	0,500
AS-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AU-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
B-S	-10,000	-10,000	10,000	10,000	-10,000	10,000	-10,000	10,000	10,000	10,000
BA-S	5000,000	2000,000	3000,000	3000,000	3000,000	3000,000	1500,000	2000,000	5000,000	3000,000
BF-S	1,000	1,000	1,500	2,000	2,000	2,000	-1,000	1,000	1,500	1,000
BI-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
CD-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
CO-S	100,000	70,000	20,000	70,000	50,000	70,000	50,000	20,000	20,000	50,000
CR-S	200,000	70,000	70,000	100,000	100,000	100,000	70,000	70,000	100,000	150,000
CU-S	300,000	50,000	500,000	200,000	500,000	1000,000	50,000	500,000	150,000	150,000
LA-S	100,000	100,000	150,000	100,000	100,000	100,000	100,000	150,000	70,000	50,000
MO-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
NE-S	10,000	10,000	10,000	10,000	10,000	15,000	10,000	10,000	20,000	20,000
NI-S	150,000	70,000	30,000	50,000	50,000	50,000	50,000	30,000	30,000	70,000
PE-S	150,000	100,000	150,000	150,000	100,000	150,000	100,000	150,000	70,000	70,000
SB-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
SC-S	30,000	30,000	20,000	30,000	30,000	50,000	30,000	30,000	15,000	20,000
SN-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
SR-S	100,000	300,000	150,000	100,000	100,000	-100,000	200,000	150,000	200,000	100,000
V-S	200,000	200,000	200,000	200,000	200,000	300,000	150,000	150,000	150,000	100,000
W-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
Y-S	70,000	70,000	70,000	70,000	70,000	100,000	50,000	70,000	50,000	50,000
ZN-S	500,000	200,000	200,000	200,000	300,000	500,000	200,000	200,000	200,000	300,000
ZR-S	300,000	300,000	300,000	300,000	300,000	500,000	300,000	300,000	300,000	300,000
CU-AA	170,000	35,000	360,000	160,000	420,000	640,000	40,000	340,000	170,000	75,000
PE-AA	50,000	40,000	40,000	60,000	50,000	35,000	40,000	35,000	50,000	30,000
ZN-AA	350,000	210,000	130,000	130,000	230,000	320,000	210,000	130,000	150,000	210,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CC-AA										
TE-AA										
AU-AA	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	-0,100
AS-CCL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SP-CCL	-1,000	-1,000	-1,000	1,000	-1,000	-1,000	1,000	1,000	-1,000	-1,000











## FCLFA DE CONTROLE - PROGRAMA FRECMCC7

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ARQUIVO

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FS193205

AMOSTRAS LIDAS 14

AMOSTRAS IMPRESSAS 14

N. INICIAL DA PAGINA 1

N. FINAL DA PAGINA 6

N. DE AMOSTRA INICIAL

N. DE AMOSTRAS FINAL



SOLCS DE PERFIS HCR.A DE R. SEDIMENTARES C.MARTINS

NUM. LAB.	JAC599	JAC601	JAC655	JAC698	JAC699	JAC745	JAC746	JAC751	JAC752	JAC753
NUM. CAMPO	PG0001	PG0003	PG0057	PG0001A	PG0003A	CK0582	CK0583	CK0588	CK0589	CK0590
C. CUSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CUSTO	300	300	300	300	300	300	300	300	300	300
PROCEDENCIA	AD	AD	AD	AD	AD	AD	AD	AD	AD	AD
BASE CART.	SH22MIV1	SH22MIV1	SH22MIV1	SH22MIV1	SH22MIV1	SH22MIV1	SH22MIV1	SH22MIV1	SH22MIV1	SH22MIV1
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	05/75	05/75	05/75	05/75	05/75	09/75	09/75	05/75	09/75	09/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	264100	264100	264100	264100	264100	263870	263870	263870	263870	263870
UTM - LONG.	06599660	06599660	06599660	06599660	06599660	06599662	06599662	06599658	06599656	06599652
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARÂMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	L	L	L	L	L	L	L	L	L	L
TIPC AMOST.	C	C	C	C	C	B	B	B	B	B
FONTE AMOST.	C	C	C	C	C	C	C	C	C	C
ROCHA REC.	H	H	H	H	H	F	H	H	H	H
ID. GFCLEGG.	CI	CI	CI	CI	CI	CI	CI	CI	CI	CI
MAT. COLET.	SOLO	SOLC	SOLC	SOLO	SOLO	SOLO	SOLO	SOLC	SOLC	SOLC
PLUVIOSIDADE	A	A	A	A	A	A	A	A	A	A
TIPC VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.	B	B	A	B	B	D	D	D	D	D
SIT. AMOST.										
ALTITUDE										
PRCF. AMOST.	0,05	0,15	0,12	0,05	0,15	0,05	0,10	0,10	0,10	0,10
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTEMP.										
TIPC ALTER.										
TIPC MINER.										
DEF. CCCC.										
LARGURA FIO										
PROFUND. FIO										
VELCC. CORR.										
NIVEL AGLA										
AREA DRENAG.										
TURB. AGLA										
POS. COLETA										
COR AGLA										
GRAU AFREC.										
VCL. CRICIN.										
PESO CCNC.										
GRANULOMET.										
TEXT. SECIM.						6 22	6 22	6 22	6 22	6 22
COR SEC./SL.	C	C	C	C	C	C	C	C	C	C
HORIZ. SOLO	A	A	A	A	A	A	A	A	A	A
TIPO SOLC	C	F	C	C	F	C	C	C	C	C

## SOLCS DE PERFIS HCR.A DE R. SEDIMENTARES C.MARTINS

NUM. LAB. NUM. CAMPO AMB. BIOTICO	JAC559 PG0001	JAC601 PG0003	JAC655 PG0057	JAC698 PG0001A	JAC699 PG0003A	JAC745 CK0582	JAC746 CK0583	JAD751 CK0588	JAD752 CK0589	JAC753 CK0590
PARAMETROS ANALITICOS DE CAMPO										
EH PH METAL TCTAL CODIF. LIVRE	C1131	C1111	C2121	C1133	C1113	C4021	C4041	C4011	C4031	C4051
PARAMETROS ANALITICOS										
FF-S %	2,000	3,000	5,000	3,000	5,000	7,000	5,000	10,000	7,000	5,000
MG-S %	0,200	0,300	0,500	0,300	0,500	1,500	1,500	1,500	1,500	1,000
CA-S %	0,070	0,150	0,150	0,070	0,200	0,150	0,150	0,200	0,150	0,300
TI-S %	0,500	0,700	1,000	0,700	1,000	1,000	1,000	1,000	1,000	1,000
MN-S	1000,000	700,000	1500,000	1000,000	700,000	5000,000	5000,000	5000,000	5000,000	5000,000
AG-S	1,500	-0,500	1,500	2,000	0,500	2,000	2,000	3,000	3,000	3,000
AS-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AU-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
B-S	15,000	15,000	10,000	15,000	10,000	20,000	30,000	20,000	20,000	30,000
BA-S	700,000	700,000	1500,000	1000,000	700,000	2000,000	2000,000	5000,000	2000,000	2000,000
BE-S	1,000	1,000	-1,000	1,000	1,000	2,000	2,000	2,000	2,000	2,000
BI-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
CC-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
CD-S	20,000	20,000	30,000	30,000	30,000	20,000	20,000	50,000	30,000	30,000
CR-S	70,000	100,000	500,000	200,000	200,000	150,000	150,000	150,000	150,000	150,000
CU-S	70,000	50,000	200,000	100,000	100,000	700,000	700,000	1500,000	700,000	1000,000
LA-S	20,000	20,000	50,000	70,000	70,000	50,000	50,000	70,000	50,000	50,000
MO-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
NE-S	-10,000	-10,000	10,000	10,000	-10,000	20,000	20,000	20,000	20,000	20,000
NI-S	20,000	20,000	50,000	50,000	30,000	70,000	70,000	70,000	50,000	50,000
PE-S	20,000	30,000	100,000	50,000	50,000	70,000	70,000	100,000	70,000	150,000
Sg-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
SC-S	10,000	10,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	15,000
SN-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
SR-S	100,000	150,000	100,000	150,000	100,000	100,000	100,000	100,000	100,000	100,000
V-S	70,000	70,000	150,000	100,000	200,000	150,000	150,000	150,000	150,000	150,000
W-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
Y-S	10,000	15,000	30,000	30,000	50,000	50,000	50,000	70,000	70,000	50,000
ZN-S	NAC DET.	-200,000	-200,000	NAC DET.	-200,000	200,000	200,000	200,000	200,000	200,000
ZR-S	200,000	200,000	300,000	300,000	300,000	300,000	200,000	300,000	300,000	300,000
CU-AA	50,000	30,000	110,000	50,000	25,000	350,000	360,000	750,000	500,000	500,000
PE-AA	20,000	25,000	25,000	20,000	25,000	40,000	35,000	55,000	55,000	130,000
ZN-AA	25,000	110,000	140,000	40,000	100,000	230,000	200,000	230,000	240,000	220,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	NAC DET.	NAC DET.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CC-AA										
TE-AA										
AU-AA	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AS-CCL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	10,000
SB-CCL	-1,000	-1,000	1,000	1,000	-1,000	-1,000	-1,000	1,000	1,000	1,000





S E A G

PROJETO AVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

## SOLOS DE PERFIS HCR.A DE R. SEDIMENTARES C.MARTINS

NUM. LAB.	JAC754	JAD754A	JAD755	JAC756
NUM. CAMPO	CK0591	CKC591	CKC592	CK0593
C. CLSTO	1533	1533	1533	1533
S. CLSTO	300	300	300	300
PROCECENCIA	AD	AD	AC	AC
BASE CART.	SH22MIV1	SH22MIV1	SH22MIV1	SH22MIV1
BASE CART.				
BASE CART.				
ESCALA	C050	0050	C050	0050
DATA	09/75	09/75	09/75	09/75
LATITUDE				
LONGITUDE				
ABCISSA - X	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000
UTM - LAT.	263870	263870	263870	263870
UTM - LONG.	06599644	06599644	06599628	06599598
MER. CENT.	51	51	51	51

## PARÂMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	L	L	L	L
TIPC AMOST.	B	B	B	B
FONTE AMOST.	C	C	C	C
ROCHA REC.	H	H	H	H
ID. CECLOG.	CI	CI	CI	CI
MAT. COLET.	SOLO	SOLO	SOLO	SOLO
PLUVIOSIDADE.	A	A	A	A
TIPO VEGET.	A	A	A	A
SIT. TFCOG.	D	D	D	D
SIT. AMOST.				
ALTITUDE				
PROF. AMOST.	0,10	0,10	0,10	0,10
FORMA IGNEA				
SIT. ESTRUT.				
MATRIZ PREC.				
GRAU INTFMF.				
TIPO ALTER.				
TIPO MINER.				
DEP. CCCR.				
LARGURA RIO				
PERFUN. RIO				
VELOC. CCRP.				
NIVEL AGLA				
AREA CFENAG.				
TURB. AGLA				
POS. COLETA				
COR AGLA				
GRAU APREC.				
VCL. CFIGIN.				
PESO CCNC.				
GRANULEMET.				
TEXT. SEDIM.	6 22	6 22	6 22	6 22
COR SED./SL.	C	C	C	C
HORIZ. SCLO	A	A	A	A
TIPC SCLO	C	C	C	C

S E A G

PR TC - LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

## SOLCS DE PERFIS FCR.A DE R. SEDIMENTARES C.MARTINS

NUM. L.P.	JAC754	JAD754A	JAD755	JAC756
NUM. CAMFC	CK0591	CK0591	CK0592	CK0593
AME. BIOTICO				

## PARAMETROS ANALITICOS DE CAMPO

EF				
PF				
METAL TOTAL				
COCIF. LIVRE	C4071	C4071	C4091	C4111

## PARAMETROS ANALITICOS

FF-S %	5,000		5,000	3,000
MG-S %	1,500		1,000	0,700
CA-S %	0,150		0,150	0,100
TI-S %	1,000		1,000	0,700
MN-S	3000,000		2000,000	2000,000
AG-S	3,000		2,000	2,000
AS-S	NAD DET.		NAC DET.	NAC DET.
AU-S	NAD DET.		NAC DET.	NAC DET.
P-S	50,000		50,000	50,000
BA-S	1500,000		1000,000	1500,000
BE-S	2,000		2,000	2,000
BI-S	NAC DET.		NAC DET.	NAC DET.
CC-S	NAD DET.		NAC DET.	NAC DET.
CO-S	20,000		30,000	20,000
CR-S	150,000		150,000	150,000
CU-S	1000,000		300,000	300,000
LA-S	70,000		50,000	20,000
MO-S	10,000		NAC DET.	NAD DET.
NB-S	20,000		20,000	20,000
NI-S	50,000		50,000	30,000
PP-S	150,000		100,000	70,000
SE-S	NAC DET.		NAC DET.	NAC DET.
SC-S	20,000		15,000	10,000
SN-S	NAC DET.		NAC DET.	NAC DET.
SR-S	NAC DET.		NAC DET.	NAC DET.
V-S	150,000		150,000	100,000
W-S	NAD DET.		NAC DET.	NAD DET.
Y-S	70,000		30,000	20,000
ZN-S	200,000		-200,000	-200,000
ZR-S	300,000		200,000	200,000
CU-AA	500,000	500,000	250,000	250,000
PE-AA	180,000	180,000	100,000	55,000
ZN-AA	160,000	160,000	100,000	60,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA				
NI-AA				
BT .				
CE-AA				
TE-AA				
AU-AA	NAD DET.		NAC DET.	NAC DET.
AS-CCL	20,000	20,000	10,000	-10,000
SB-COL	2,000	2,000	1,000	1,000

SOLCS DE PERFIS HCR. A DE R. SEDIMENTARES C. MARTINS

NUM. LAB.	JAD754	JAD754A	JAD755	JAD756
NUM. CAMPO	CK0591	CK0591	CK0592	CK0593
CXCU-CCL				
MFT PES				
CC-CCL				
MC-CCL				
W-CCL				
P-CCL				
SE-CCL				
U-CCL				



FOLHA DE CONTROLE - PROGRAMA PRGMCC7

\*\*\* OPCOES \*\*\*

ARQUIVO

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FS193206

AMOSTRAS LICAS 4

AMOSTRAS IMPRESSAS 4

N. INICIAL DA PAGINA 1

N. FINAL DA PAGINA 3

N. DE AMOSTRA INICIAL

N. DE AMOSTRAS FINAL

SOLOS DE PERFIS HCR.C DE R. SEDIMENTARES C.MARTINS

NUM. LAB.	JAC600	JAC602	JAC656	JAC815	0	J	W	C	J	K	WP	K	V	XC	I	H	SX8	N
NUM. CAMPO	PG0002	PG0004	PG0058	PG0090	0	J	W	0	J	K	WP	K	V	XC	I	H	9X8	N
C. CLSTO	1533	1533	1533	1533	0	J	W	0	J	K	WP	K	V	XC	I	H	9X8	N
S. CLSTO	300	300	300	300														
PROCEENCIA	AD	AD	AD	AD														
BASE CART.	SH22MIV1	SH22MIV1	SH22MIV1	SH22MIV1														
BASE CART.																		
BASE CART.																		
ESCALA	0050	0050	0050	0050														
DATA	05/75	05/75	05/75	05/75														
LATITUDE																		
LONGITUDE																		
ABCISSA - X	0000	0000	0000	0000														
ORDENADA - Y	0000	0000	0000	0000														
UTM - LAT.	264100	264100	264100	264100														
UTM - LONG.	06599660	06599660	06599660	06599660														
MER. CENT.	51	51	51	51														

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	L	L	L	L
TIPC AMOST.	C	C	C	C
FNTE AMOST.	C	C	C	C
ROCHA REC.	H	H	H	H
ID. GEOLG.	CI	CI	CI	CI
MAT. CCLET.	SOLO	SOLC	SOLC	SOLC
PLUVIOSIDADE	A	A	A	A
TIPC VEGET.	A	A	A	A
SIT. TOPOG.	B	B	A	B
SIT. AMOST.				
ALTITUDE				
PROF. AMOST.	0.55	0.50	0.62	0.50
FORMA IGNEA				
SIT. ESTRUT.				
MATRIZ PRED.				
GRAU INTEMP.				
TIPC ALTER.				
TIPO MINER.				
DEP. OCCOR.				
LARGURA RIO				
PROFUND. RIO				
VELOC. CORR.				
NIVEL AGLA				
AREA DEFNAG.				
TURB. AGLA				
POS. CCLETA				
COR AGLA				
GRAU AFREC.				
VOL. CRIGIN.				
PESO CCNC.				
GRANULOMET.				
TEXT. SECIM.				
COR SEC./SL.		C	C	C
HORIZ. SCLO	C	C	C	C
TIPC SCLC	F	F	F	F

SOLOS DE PERFIS HCR.C DE R. SEDIMENTARES C.MARTINS

NUM. LAB.	JAC600	JAC602	JAC656	JAC815	0	J	W	C	J	K	WP	K	V	XC	I	H	9X8	N
NUM. CAMFC	PG0002	PG0004	PG0058	PG0090	0	J	W	0	J	K	WP	K	V	X0	I	H	SX8	N
AMB. BIOTICO																		

PARAMETROS ANALITICOS DE CAMPO

EH				
PF				
METAL TOTAL				
COCIF. LIVRE	C1131	C1111	C2121	C1112

PARAMETROS ANALITICOS

FE-S %	3,000	3,000	5,000	3,000
MG-S %	0,300	0,500	0,700	0,700
CA-S %	0,150	0,070	0,070	0,200
TI-S %	0,700	0,500	1,000	0,700
MN-S	700,000	1000,000	1000,000	1000,000
AG-S	-0,500	NAD DET.	1,000	NAC DET.
AS-S	NAC DET.	NAD DET.	NAC DET.	NAC DET.
AL-S	NAD DET.	NAD DET.	NAC DET.	NAC DET.
B-S	15,000	20,000	15,000	20,000
BA-S	1000,000	700,000	1500,000	1000,000
BE-S	1,500	2,000	-1,000	1,500
BI-S	NAD DET.	NAD DET.	NAC DET.	NAC DET.
CE-S	NAD DET.	NAD DET.	NAC DET.	NAC DET.
CO-S	15,000	30,000	30,000	20,000
CR-S	100,000	100,000	300,000	150,000
CU-S	70,000	70,000	200,000	30,000
LA-S	30,000	150,000	70,000	30,000
MO-S	NAD DET.	NAD DET.	NAC DET.	NAC DET.
NB-S	10,000	10,000	10,000	10,000
NI-S	20,000	30,000	100,000	30,000
PB-S	30,000	50,000	50,000	70,000
SB-S	NAD DET.	NAD DET.	NAD DET.	NAC DET.
SC-S	10,000	15,000	20,000	15,000
SN-S	NAD DET.	NAD DET.	NAC DET.	NAC DET.
SR-S	100,000	150,000	100,000	200,000
V-S	70,000	70,000	100,000	100,000
W-S	NAD DET.	NAD DET.	NAC DET.	NAC DET.
Y-S	15,000	30,000	30,000	20,000
ZN-S	-200,000	NAD DET.	-200,000	-200,000
ZR-S	200,000	200,000	300,000	300,000
CU-AA	60,000	40,000	85,000	10,000
PE-AA	20,000	25,000	20,000	25,000
ZN-AA	60,000	50,000	85,000	60,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA				
NI-AA				
BI-AA				
CE-AA				
TE-AA				
AU-AA	NAD DET.	NAD DET.	NAC DET.	NAC DET.
AS-COL	-10,000	-10,000	-10,000	-10,000
SB-CCL	-1,000	1,000	1,000	-1,000





CFRM

LISTAGEM DE AMOSTRAS

02.02.76

FLA. UNICA

SISTEMA DE ESTATISTICA DE AMOSTRAGEM

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FOLHA DE CONTROLE - PROGRAMA PRGQMCC7

\*\*\* OPCOES \*\*\*

ARQUIVO

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FS193300

AMOSTRAS LICAS 55

AMOSTRAS IMPRESSAS 55

N. INICIAL DA PAGINA 1

N. FINAL DA PAGINA 16

N. DE AMOSTRA INICIAL

N. DE AMOSTRAS FINAL





ROCHAS ANDESITICAS CERRO DOS MARTINS

NUM. LAB. NUM. CAMPO AMB. BIOTICO	JAC882 ES0001	JAC884 ES0003	JAC885 ES0004	JAC886 ES0005	JAC888 ES0007	JAC889 ES0007A	JAC850 ES0008	JAC852 ES0010	JAC853 ES0010A	JAC894 ES0011
PARAMETROS ANALITICOS DE CAMPO										
EH PH METAL TOTAL COEF. LIVRE	CR011	CR031	CR041	CR051	CR071	CR073	CR081	CR101	CR103	CR111
PARAMETROS ANALITICOS										
FE-S %	3,000	3,000	3,000	10,000	3,000	3,000	7,000	3,000	5,000	5,000
MG-S %	1,000	0,100	0,150	3,000	0,700	0,700	3,000	0,700	1,000	3,000
CA-S %	10,000	0,300	0,700	1,000	2,000	2,000	1,000	0,700	0,700	0,500
TI-S %	1,000	+1,000	+1,000	+1,000	1,000	1,000	+1,000	+1,000	+1,000	+1,000
MN-S	5000,000	700,000	3000,000	1500,000	1000,000	1000,000	2000,000	1500,000	1500,000	1000,000
AG-S	20,000	100,000	30,000	NAO DET.	NAO DET.	NAO DET.	1,000	5,000	5,000	50,000
AS-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AU-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
B-S	-10,000	-10,000	10,000	-10,000	10,000	10,000	10,000	-10,000	-10,000	10,000
BA-S	+5000,000	+5000,000	+5000,000	1500,000	1500,000	1500,000	1500,000	1500,000	1500,000	3000,000
BF-S	-1,000	-1,000	-1,000	-1,000	1,000	1,000	1,000	2,000	2,000	1,000
BI-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CC-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
CO-S	30,000	-5,000	-5,000	100,000	15,000	10,000	50,000	30,000	50,000	30,000
CR-S	200,000	50,000	70,000	500,000	100,000	100,000	200,000	50,000	70,000	150,000
CU-S	+20000,000	+20000,000	10000,000	50,000	30,000	30,000	200,000	5000,000	5000,000	20000,000
LA-S	20,000	50,000	100,000	50,000	70,000	70,000	50,000	70,000	100,000	100,000
MO-S	NAO DET.	7,000	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	7,000
NB-S	-10,000	-10,000	-10,000	-10,000	10,000	10,000	10,000	10,000	10,000	15,000
NI-S	100,000	10,000	10,000	150,000	50,000	30,000	150,000	30,000	50,000	50,000
PE-S	100,000	50,000	150,000	100,000	30,000	30,000	100,000	150,000	150,000	50,000
SE-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SC-S	20,000	7,000	10,000	30,000	10,000	7,000	30,000	15,000	20,000	30,000
SN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SR-S	500,000	500,000	700,000	200,000	200,000	200,000	300,000	150,000	150,000	150,000
V-S	100,000	100,000	100,000	200,000	100,000	70,000	150,000	100,000	100,000	200,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
Y-S	30,000	30,000	50,000	50,000	30,000	30,000	70,000	70,000	70,000	70,000
ZN-S	200,000	-200,000	NAC DET.	300,000	NAO DET.	NAC DET.	500,000	200,000	200,000	-200,000
ZR-S	100,000	200,000	300,000	200,000	300,000	300,000	300,000	300,000	300,000	300,000
CU-AA	+1000,000	+1000,000	+1000,000	20,000	20,000	20,000	170,000	+1000,000	+1000,000	+1000,000
PE-AA	INTERFER.	10,000	15,000	35,000	INTERFER.	INTERFER.	70,000	45,000	45,000	30,000
ZN-AA	170,000	10,000	10,000	270,000	45,000	45,000	350,000	160,000	160,000	180,000
AG-AA	17,000	70,000	11,000	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	16,000
CO-AA										
NI-AA										
BI-AA										
CD-AA										
TE-AA										
AU-AA	NAO DET.	-0,050	0,200	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-CCL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SB-CCL	-1,000	2,000	1,000	-1,000	-1,000	-1,000	-1,000	-1,000	1,000	1,000























ROCHAS ANDESITICAS CERRO DOS MARTINS

NUM. LAB. NUM. CAMFC AMB. BIOTICO	JACS17 RH0002A	JACS18 RH0003	JACS19 RH0004	JACS20 RH0005	JACS21 RH0005A	JACS22 RH0006	JACS23 RH0007	JACS24 RH0008	JACS25 RH0009	JACS26 RH0010
PARAMETROS ANALITICOS DE CAMPO										
EH										
PH										
METAL TOTAL										
COCIF. LIVRE	CR283	CR261	CR251	CR241	CR243	CR161	CR171	CR191	CR271	CR201
PARAMETROS ANALITICOS										
FE-S %	5,000	3,000	3,000	7,000	7,000	7,000	10,000	7,000	7,000	15,000
MG-S %	2,000	0,700	0,300	3,000	3,000	0,700	3,000	0,300	1,000	2,000
CA-S %	1,500	0,300	0,700	2,000	2,000	1,500	5,000	0,500	1,000	3,000
TI-S %	1,000	0,300	1,000	1,000	1,000	1,000	1,000	+1,000	1,000	+1,000
MN-S	1000,000	500,000	1000,000	1500,000	1500,000	+5000,000	2000,000	5000,000	5000,000	3000,000
AG-S	NAC DET.	NAC DET.	20,000	3,000	-0,500	1,000	NAC DET.	3,000	NAC DET.	1,500
AS-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AU-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
B-S	10,000	10,000	10,000	10,000	10,000	-10,000	10,000	30,000	-10,000	15,000
BA-S	2000,000	+5000,000	700,000	1500,000	1500,000	+5000,000	1500,000	+5000,000	3000,000	5000,000
BE-S	1,000	-1,000	1,000	1,000	1,000	1,000	1,500	1,000	1,000	-1,000
BI-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
CD-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
CO-S	50,000	10,000	10,000	50,000	50,000	70,000	70,000	10,000	50,000	100,000
CR-S	200,000	30,000	70,000	200,000	200,000	70,000	500,000	200,000	200,000	100,000
CU-S	20,000	200,000	50,000	30,000	30,000	200,000	150,000	1000,000	50,000	300,000
LA-S	100,000	50,000	100,000	100,000	100,000	100,000	-20,000	100,000	100,000	100,000
MO-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	-5,000	NAC DET.	5,000	NAC DET.	NAC DET.
NR-S	10,000	-10,000	10,000	10,000	10,000	10,000	10,000	10,000	15,000	10,000
NI-S	50,000	20,000	20,000	70,000	70,000	30,000	150,000	30,000	70,000	150,000
PE-S	20,000	10,000	30,000	150,000	150,000	100,000	150,000	150,000	200,000	500,000
SE-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
SC-S	20,000	5,000	15,000	20,000	20,000	20,000	30,000	30,000	30,000	30,000
SN-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
SR-S	700,000	300,000	150,000	700,000	700,000	300,000	500,000	150,000	500,000	1000,000
V-S	150,000	50,000	70,000	100,000	100,000	100,000	100,000	150,000	150,000	200,000
W-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
Y-S	50,000	10,000	30,000	50,000	50,000	50,000	30,000	70,000	70,000	70,000
ZN-S	-200,000	-200,000	-200,000	200,000	200,000	-200,000	-200,000	NAC DET.	-200,000	200,000
ZR-S	300,000	100,000	300,000	300,000	300,000	300,000	100,000	300,000	300,000	300,000
CU-AA	15,000	45,000	35,000	10,000	10,000	170,000	60,000	430,000	25,000	160,000
PE-AA	20,000	5,000	15,000	30,000	35,000	25,000	75,000	30,000	120,000	150,000
ZN-AA	100,000	40,000	15,000	230,000	240,000	170,000	150,000	20,000	210,000	270,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CD-AA										
TE-AA										
AU-AA	NAC DET.	-1,000	NAC DET.	-1,000	-1,000	2,000	-1,000	2,000	-1,000	NAC DET.
AS-CCL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SB-CCL	NAC DET.	-1,000	NAC DET.	-1,000	-1,000	2,000	-1,000	2,000	-1,000	-1,000







ROCAS ANDESITICAS CEPRO DOS MARTINS

NUM. LAB. NUM. CAMPO AMB. PIOTICO	JACS28 RH0012	JACS29 RH0013	JACS30 RH0014	JACS31 RH0015	JACS32 RH0015A	JACS32A RH0015A	JAD164 ES0029	JAD165 ES0030	JAD166 ES0031	JAD167 ES0032
PARAMETROS ANALITICOS DE CAMPO										
EH										
PH										
METAL TOTAL										
COCIF. LIVRE	CR231	CR141	CR151	CR211	CR213	CR213	CR322	CR412	CR372	CR112
PARAMETROS ANALITICOS										
FE-S %	3,000	5,000	10,000	5,000	7,000		5,000	5,000	7,000	5,000
MG-S %	2,000	0,700	1,000	2,000	2,000		2,000	1,000	5,000	1,000
CA-S %	1,000	0,700	1,000	0,700	0,700		5,000	0,700	2,000	0,500
TI-S %	1,000	+1,000	+1,000	1,000	+1,000		1,000	1,000	+1,000	1,000
MN-S	1500,000	2000,000	2000,000	1000,000	1000,000		1500,000	1000,000	2000,000	1500,000
AG-S	0,500	70,000	NAO DET.	NAC DET.	NAO DET.		NAO DET.	NAO DET.	NAO DET.	100,000
AS-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.		NAC DET.	NAO DET.	NAC DET.	NAC DET.
AL-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAC DET.	NAC DET.
B-S	-10,000	10,000	20,000	15,000	20,000		10,000	10,000	10,000	10,000
BA-S	3000,000	+5000,000	5000,000	1000,000	1000,000		700,000	1000,000	2000,000	5000,000
BF-S	1,500	1,000	1,000	1,500	1,500		1,000	1,000	1,000	1,000
BI-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.		NAO DET.	NAO DET.	NAC DET.	NAC DET.
CC-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAC DET.	NAC DET.
CO-S	20,000	20,000	50,000	20,000	30,000		50,000	20,000	70,000	20,000
CR-S	100,000	100,000	100,000	150,000	150,000		100,000	100,000	200,000	100,000
CU-S	5000,000	+20000,000	100,000	30,000	30,000		70,000	70,000	50,000	+20000,000
LA-S	70,000	70,000	100,000	70,000	70,000		100,000	100,000	100,000	100,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.		NAO DET.	5,000	NAO DET.	10,000
NB-S	10,000	10,000	15,000	10,000	10,000		10,000	10,000	10,000	10,000
NI-S	30,000	30,000	50,000	30,000	50,000		30,000	30,000	50,000	30,000
PP-S	70,000	150,000	100,000	30,000	30,000		30,000	70,000	20,000	100,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.		NAO DET.	NAO DET.	NAC DET.	NAC DET.
SC-S	15,000	20,000	30,000	15,000	20,000		20,000	20,000	30,000	20,000
SN-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.		NAO DET.	NAO DET.	NAO DET.	NAC DET.
SR-S	500,000	700,000	500,000	150,000	200,000		300,000	100,000	1000,000	200,000
V-S	150,000	200,000	300,000	100,000	150,000		150,000	150,000	150,000	150,000
W-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.		NAO DET.	NAO DET.	NAC DET.	NAC DET.
Y-S	50,000	70,000	100,000	50,000	90,000		70,000	70,000	70,000	70,000
ZN-S	700,000	-200,000	-200,000	300,000	200,000		200,000	200,000	200,000	200,000
ZP-S	300,000	300,000	300,000	300,000	300,000		300,000	300,000	300,000	300,000
CU-AA	+1000,000	+1000,000	35,000	20,000	20,000	20,000	35,000	20,000	20,000	+1000,000
PP-AA	20,000	25,000	15,000	15,000	15,000	15,000	INTERFER.	25,000	25,000	30,000
ZN-AA	410,000	170,000	150,000	200,000	210,000	210,000	110,000	55,000	110,000	140,000
AG-AA	INTERFER.	28,000	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	35,000
CO-AA										
NI-AA										
BT-AA										
CD-AA										
TE-AA										
AU-AA	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAC DET.	-0,050
AS-CCL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SB-CCL	-1,000	2,000	-1,000	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	-1,000



## ROCHAS ANDESITICAS CERRO DOS MARTINS

NUM. LAB.	JAD168	JAD169	JAD170	JAD171	JAD171A
NUM. CAMPO	ES0033	ES0034	ESCC35	ES0036	ES0036
C. CUSTO	1533	1533	1533	1533	1533
S. CUSTO	300	300	300	300	300
PRECEDENCIA	AD	AD	AC	AD	AD
BASE CART.	SH22MIV1	SH22MIV1	SH22MIV1	SH22MIV1	SH22MIV1
BASE CART.					
BASE CART.					
FSCALA	0050	0050	0050	0050	0050
DATA	07/75	07/75	07/75	07/75	07/75
LATITUDE					
LONGITUDE					
ABCISSA - X	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000
UTM - LAT.	264087	263960	263940	264715	264715
UTM - LONG.	06599667	06599225	06599105	06598760	06598760
MER. CENT.	51	51	51	51	51

## PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	R	R	R	R	R
TIPO AMOST.	B	A	B	A	A
FNTE AMOST.	A	A	A	A	A
ROCHA REC.	X	X	X	X	X
ID. CECLCC.					
MAT. CELET.	ANDS	ANDS	ANDS	ANDS	ANDS
PLUVIOSIDADE					
TIPO VEGET.					
SIT. TOPOG.					
SIT. AMOST.					
ALTITUDE	2641				
PROF. AMOST.					
FORMA IGNEA	C	B	B		
SIT. ESTRUT.	B				
MATRIZ PREC.					
GRAU INTEMP.	C	C	B	C	C
TIPO ALTER.					
TIPO MINER.					
DEP. CCCCR.					
LARGURA RIO					
PROFUND. RIO					
VELCC. CORR.					
NIVEL AGUA					
AREA EFENAG.					
TURB. AGUA					
PCS. CCLETA					
COR AGUA					
GRAU ARREC.					
VOL. ORIGIN.					
PESO CONC.					
GRANULOMET.					
TEXT. SECIM.					
COR SEC./SL.					
HORIZ. SCLO					
TIPO SCLC					



ROCHAS ANDESITICAS CEPRO DOS MARTINS

NUM. LAB.	JAC168	JAD169	JAD170	JAD171	JAD171A
NUM. CAMFC	ES0033	ES0034	ESCC35	ES0036	ES0036
AMB. BIOTICO					

PARAMETROS ANALITICOS DE CAMPO

EH					
PH					
METAL TCTAL					
COCIF. LIVRE	CR132	CR172	CR202	CR252	CR252

PARAMETROS ANALITICOS

FF-S %	7,000	7,000	10,000	5,000	
MG-S %	2,000	2,000	3,000	1,500	
CA-S %	1,500	3,000	5,000	2,000	
TI-S %	+1,000	+1,000	+1,000	1,000	
MN-S	2000,000	2000,000	2000,000	3000,000	
AG-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	
AS-S	NAC DET.	NAO DET.	NAC DET.	NAC DET.	
AL-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	
B-S	10,000	10,000	10,000	10,000	
BA-S	3000,000	700,000	1000,000	3000,000	
BF-S	1,000	1,000	-1,000	1,000	
BI-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	
CC-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	
CO-S	70,000	70,000	100,000	30,000	
CR-S	150,000	200,000	150,000	150,000	
CL-S	200,000	150,000	10,000	50,000	
LA-S	100,000	100,000	100,000	100,000	
MO-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	
NE-S	10,000	10,000	10,000	10,000	
NI-S	50,000	100,000	100,000	50,000	
PB-S	100,000	150,000	50,000	100,000	
SE-S	NAC DET.	NAO DET.	NAO DET.	NAC DET.	
SC-S	30,000	30,000	50,000	30,000	
SN-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	
SR-S	300,000	500,000	700,000	500,000	
V-S	150,000	200,000	200,000	100,000	
W-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	
Y-S	70,000	70,000	100,000	70,000	
ZN-S	200,000	500,000	200,000	200,000	
ZR-S	300,000	200,000	300,000	300,000	
CU-AA	110,000	60,000	10,000	20,000	20,000
PB-AA	30,000	INTERFER.	INTERFER.	INTERFER.	INTERFER.
ZN-AA	200,000	250,000	200,000	180,000	180,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA					
NI-AA					
BI-AA					
CC-AA					
TF-AA					
AU-AA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	
AS-COL	-10,000	-10,000	-10,000	-10,000	-10,000
SB-CCL	-1,000	1,000	-1,000	-1,000	-1,000

ROCAS ANDESITICAS CERRO DOS MARTINS

NUM. LAB.	JAC168	JAD169	JAD170	JAD171	JAD171A
NUM. CAMFC	ES0033	ES0034	ESCC35	ES0036	ES0036
CXCU-CCL					
MET PES					
CO-CCL					
MO-CCL					
W-CCL					
P-CCL					
SE-CCL					
U-CCL					





CR

LISTAGEM DE AMOSTRAS

C2.02.76

FLA. UNICA

SISTEMA DE ESTATISTICA DE AMOSTRAGEM

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FOLHA DE CONTROLE - PROGRAMA PRGQMCC7

\*\*\* O P C O E S \*\*\*

ARQUIVO

C O O C O O C C O O

FS193310

AMOSTRAS LIDAS 7

AMOSTRAS IMPRESSAS 7

N. INICIAL DA PAGINA 1

N. FINAL DA PAGINA 3

N. DE AMOSTRA INICIAL

N. DE AMOSTRAS FINAL

S E A G

PROJETO - LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

ROCCHAS SEDIMENTARES CERRO DOS MARTINS

NUM. LAB. NUM. CAMPO AMB. BIOLOGICO	JAC883 ES0002	JAC887 ES0006	JAC891 ES0009	JAC891A ES0009	JAC900 ES0016	JAC913 ES0027	JAC927 RH0011	J K W P J K W P	K V X C K V X C	I I	H H	SX8 SX8	N N
PAFAMETROS ANALITICOS DE CAMPO													
ET PT METAL TOTAL CODIF. LIVRE	CR021	CR061	CR091	CR091	CR381	CR431	CR181						
PAFAMETROS ANALITICOS													
FE-S %	5,000	5,000	3,000		3,000	2,000	3,000						
MG-S %	0,500	1,000	0,500		0,700	0,150	1,000						
CA-S %	0,700	0,300	0,150		0,700	0,070	1,000						
TI-S %	+1,000	1,000	0,700		0,700	0,200	1,000						
MN-S	5000,000	700,000	1000,000		700,000	500,000	2000,000						
AG-S	20,000	NAD DET.	NAC DET.		NAD DET.	NAD DET.	30,000						
AS-S	NAD DET.	NAD DET.	NAC DET.		NAD DET.	NAC DET.	NAD DET.						
AL-S	NAD DET.	NAD DET.	NAC DET.		NAC DET.	NAC DET.	NAD DET.						
B-S	-10,000	20,000	10,000		50,000	-10,000	15,000						
BA-S	+5000,000	1000,000	1000,000		1000,000	1500,000	5000,000						
BE-S	-1,000	2,000	1,500		2,000	1,000	1,000						
BI-S	NAD DET.	NAD DET.	NAC DET.		NAD DET.	NAC DET.	NAD DET.						
CC-S	NAD DET.	NAD DET.	NAC DET.		NAD DET.	NAC DET.	NAD DET.						
CD-S	30,000	20,000	10,000		15,000	5,000	15,000						
CR-S	300,000	150,000	70,000		150,000	10,000	150,000						
CU-S	5000,000	50,000	30,000		15,000	20,000	5000,000						
LA-S	30,000	70,000	50,000		50,000	-20,000	50,000						
MC-S	NAD DET.	NAD DET.	NAC DET.		NAC DET.	-5,000	NAD DET.						
NE-S	-10,000	10,000	10,000		-10,000	-10,000	10,000						
NI-S	70,000	50,000	50,000		50,000	5,000	30,000						
PE-S	150,000	50,000	30,000		20,000	30,000	30,000						
SB-S	NAD DET.	NAD DET.	NAD DET.		NAD DET.	NAC DET.	NAD DET.						
SC-S	30,000	15,000	7,000		15,000	-5,000	10,000						
SN-S	NAD DET.	NAD DET.	NAC DET.		NAC DET.	NAD DET.	NAC DET.						
SR-S	200,000	200,000	150,000		200,000	150,000	150,000						
V-S	200,000	100,000	70,000		100,000	50,000	100,000						
W-S	NAD DET.	NAD DET.	NAC DET.		NAC DET.	NAC DET.	NAD DET.						
Y-S	50,000	30,000	20,000		20,000	10,000	20,000						
ZN-S	200,000	NAD DET.	-200,000		-200,000	NAC DET.	-200,000						
ZR-S	200,000	200,000	200,000		200,000	150,000	300,000						
CU-AA	+1000,000	30,000	25,000	25,000	10,000	15,000	+1000,000						
PE-AA	25,000	20,000	20,000	20,000	10,000	5,000	20,000						
ZN-AA	95,000	65,000	65,000	60,000	55,000	10,000	180,000						
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	NAC DET.	16,000						
CO-AA													
NI-AA													
BI-AA													
CD-AA													
TE-AA													
AU-AA	NAD DET.	NAD DET.	NAC DET.		NAC DET.	NAD DET.	NAD DET.						
AS-CCL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000						
SB-CCL	1,000	1,000	-1,000	-1,000	-1,000	-1,000	NAD DET.						





Área do Cerro Mantiqueiras

Sedimentos de corrente

Solos de perfis - horizonte A de rochas ultrabásicas

Solos de perfis - horizonte C de rochas ultrabásicas

Solos de perfis - horizonte A de gnaisses

Solos de perfis - horizonte C de gnaisses

Rochas ultrabásicas



## FOLHA DE CONTROLE - PROGRAMA PRGCMCC7

\*\*\* OPCOES \*\*\*

APCUIVC

C O O O O C C O O O

FS193110

AMOSTRAS LICAS 42

AMOSTRAS IMPRESSAS 42

N. INICIAL DA PAGINA 1

N. FINAL DA PAGINA 10

N. DE AMOSTRA INICIAL

N. DE AMOSTRAS FINAL





















S E A G

PROJ. - LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

## SEDIMENTOS DE CORRENTE CERRO MANTIQUEIRAS

NUM. LAB.	JAD307	JAD308
NUM. CAMP.	RF0044A	RH0039
C. CLSTO	1533	1533
S. CLSTO	300	300
PRECISEZ	AD	AD
BASE CART.	SH22YAIV	SH22YAIV
PASE CART.	3	3
BASE CART.		
ESCALA	C05C	C05C
CATA	07/75	07/75
LATITUDE		
LONGITUDE		
ABSCISSA - X	0000	0000
ORDENADA - Y	0000	0000
UTM - LAT.	213500	218650
UTM - LONG.	06578200	06577000
MER. CENT.	51	51

## PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMST.	S	S
TIPC AMST.	B	B
FONTE AMST.	L	L
ROCHA REC.	M	M
ID. CECLEC.	AS	AS
MAT. CLET.	ALUV	ALUV
FLUVIOSICACE	B	B
TIPO VEGET.	A	A
SIT. TCPCG.		
SIT. AMST.	C	C
ALTITUDE		
PROF. AMST.	0,30	0,30
FORMA IGNEA		
SIT. ESTPUT.		
MATRIZ PREC.		
GRAU INTENF.		
TIPO ALTER.		
TIPO MINER.		
DEP. CCCC.		
LARGURA RIO	3	1
PERFUNE. RIO	0,3	0,3
VELCC. CCFR.	3	2
NIVEL AGLA	2	2
AREA CFFNAG.	2	1
TURP. AGLA	0	2
POS. CCLETA	C	C
COR AGLA	A	D
GRAU AFREC.	B	B
VCL. CFCIN.		
PFSC CCNC.		
GRANLLCMET.		
TEXT. SECIM.	3232	4411
COR SEC./SL.	I	E
HORIZ. SCLD		
TIPO SCLC		

S E A G

PROJETO - LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

## SECIMENTOS DE CORRENTE CERRO MANTIQUEIRAS

NUM. L/E.	JAD307	JAD30E
NUM. CAMFC	PHOC44A	RHU039
AME. BICTICC		

## PARAMETROS ANALITICOS DE CAMPO

FF		
PF	7,0	7,0
METAL TOTAL		
CODIF. LIVRE	MS263	MS141

## PARAMETROS ANALITICOS

FF-S %	3,000	5,000
MG-S %	0,500	0,700
CA-S %	2,000	1,500
TI-S %	0,300	1,000
MN-S	1500,000	1500,000
AG-S	NAC DET.	NAD DET.
AS-S	NAC DET.	NAD DET.
AU-S	NAC DET.	NAD DET.
B-S	15,000	20,000
BA-S	300,000	700,000
BF-S	-1,000	-1,000
PI-S	NAD DET.	NAD DET.
CF-S	NAC DET.	NAD DET.
CO-S	5,000	30,000
CR-S	30,000	100,000
CL-S	15,000	100,000
LA-S	NAC DET.	20,000
MO-S	NAD DET.	NAD DET.
NE-S	-10,000	10,000
NI-S	10,000	30,000
PP-S	-10,000	20,000
SE-S	NAC DET.	NAD DET.
SC-S	7,000	30,000
SN-S	NAD DET.	NAD DET.
SR-S	700,000	300,000
V-S	70,000	200,000
W-S	NAD DET.	NAD DET.
Y-S	NAD DET.	30,000
ZN-S	NAC DET.	-200,000
ZR-S	70,000	200,000
CU-AA	5,000	30,000
PF-AA	5,000	15,000
ZN-AA	15,000	60,000
AG-AA	INTERFER.	INTERFER.
CO-AA		
NI-AA		
BJ-AA		
CF-AA		
TE-AA		
AU-AA		



FOLHA DE CONTROLE - PROGRAMA PRGCMCC7

\*\*\* OPCOES \*\*\*

ARQUIVO

000000000

FS193240

AMOSTRAS LIDAS 39

AMOSTRAS IMPRESSAS 39

N. INICIAL DA PAGINA 1

N. FINAL DA PAGINA 8

N. DE AMOSTRA INICIAL

N. DE AMOSTRAS FINAL























SOLOS HOR. C ULTRABASICAS CERRO MANTIQUEIRAS

NUM. LAB.	JAC173	JAD175	JAD177	JAC184	JAC186	JAC190	JAC192	JAC205	JAC207	JAC217
NUM. CAMPO	RH0056	RH0058	RH0060	RH0067	RH0069	RH0073	RH0075	RH0088	RH0090	RH0105
C. CLSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300
PRECECENCIA	AD	AD	AD	AD	AD	AD	AD	AD	AD	AD
BASE CART.	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV
BASE CART.	3	3	3	3	3	3	3	3	3	3
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	220900	220900	220900	220900	220900	220900	220900	220900	220900	220900
UTM - LONG.	06580020	06580040	06580060	06580010	06580000	06579960	06579940	06580010	06580020	06578270
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	L	L	L	L	L	L	L	L	L	L
TIFC AMOST.	C	C	C	C	C	C	C	C	C	C
FONTE AMOST.	C	C	C	C	C	C	C	C	C	C
ROCHA REC.	U	U	U	U	U	U	U	U	U	U
ID. CELEG.	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
MAT. COLET.	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO
PLUVIOSIDADE	B	B	B	B	B	B	B	B	B	B
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.	C	C	C	C	C	C	C	C	C	C
SIT. AMOST.										
ALTITUDE										
PROF. AMOST.	0,65	0,55	0,50	0,50	0,40	0,50	0,40	0,50	0,65	0,50
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTEMP.										
TIPO ALTER.										
TIFC MINER.										
DEP. CCCCC.										
LARGURA RJO										
PROFUND. RJO										
VELOC. CORR.										
NIVEL ACLA										
AREA CRENAC.										
TURB. ACLA										
PCS. COLETA										
COR ACLA										
GRAU APREC.										
VCL. CONFIG.										
PESO COLETA										
GRANULOMET.										
TEXT. SECIM.	1333	1333	1243	1234	1243	1531	334	1234	1333	343
COR SEC./SL.	G	C	C	G	G	I	C	G	G	I
HORIZ. SCLC	C	C	C	C	C	C	C	C	C	C
TIPO SCLC	F	F	F	F	F	F	G	F	F	F

## FOLHA DE CONTROLE - PROGRAMA PRGQMCC7

\*\*\* O P C O E S \*\*\*

AFCTVC

0 0 0 0 0 0 0 0 0 0

FS193250

AMOSTRAS LÍCAS 22

AMOSTRAS IMPRESSAS 22

N. INICIAL DA PAGINA 1

N. FINAL DA PAGINA 6

N. DE AMOSTRA INICIAL

N. DE AMOSTRAS FINAL









S E A G

PROJ - LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

## SOLCS PCR. C ULTRABASICAS CERRO MANTICUEIRAS

NUM. LAB.	JAD265	JAD268
NUM. CAMP.	RF0112A	RHC122A
C. CUSTO	1533	1533
S. CUSTO	300	300
PRECEDENCIA	AD	AD
BASE CART.	SH22YAIV	SH22AYIV
BASE CART.	3	3
BASE CART.		
ESCALA	0050	0050
DATA	07/75	07/75
LATITUDE		
LONGITUDE		
ABSCISSA - X	0000	0000
ORDENADA - Y	0000	0000
UTM - LAT.	216150	216150
UTM - LONG.	06578170	06578050
MER. CENT.	51	51

## PARÂMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	L	L
TIPO AMOST.	C	C
FONTE AMOST.	C	C
ROCHA REC.	U	U
TD. CECLCC.	AS	AS
MAT. COLET.	SOLO	SOLO
PLUVIOSIDADE	B	B
TIPO VEGET.	A	A
SIT. TOPOG.	A	B
SIT. AMOST.		
ALTITUDE		
PROF. AMOST.	0,55	0,70
FORMA IGNEA		
SIT. ESTEUT.		
MATRIZ PRED.		
GRAU INTEMP.		
TIPO ALTER.		
TIPO MINER.		
DEF. CCCCC.		
LARGURA RIO		
PROFUND. RIO		
VELOC. CORR.		
NIVEL AGLA		
AREA DRENAG.		
TURB. AGLA		
PCS. COLETA		
CCR AGLA		
GRAU AFREC.		
VCL. ORIGIN.		
PESC. CENC.		
GRANULOMET.		
TEXT. SECIM.	325	244
CCR SEC./SL.	H	G
HORIZ. SCLC	C	C
TIPO SCLC	F	F



## SOLDS PCF. C ULTRABASICAS CERRO MANTIQUEIRAS

NUM. LAE.	JAC2E5	JAC2E8
NUM. CAMFC	PF0112A	RHC122A
AME. BIOTICO		

## PARAMETROS ANALITICOS DE CAMPO

FH		
PH		
METAL TOTAL		
COCIF. LIVRE	M2083	M2203

## PARAMETROS ANALITICOS

FE-S %	10,000	10,000
MG-S %	10,000	1,000
CA-S %	0,500	0,070
TI-S %	0,500	0,700
MN-S	2000,000	1000,000
AG-S	NAC DET.	NAD DET.
AS-S	NAC DET.	NAD DET.
AL-S	NAC DET.	NAD DET.
B-S	10,000	20,000
BA-S	150,000	500,000
BF-S	-1,000	1,000
BI-S	NAC DET.	NAD DET.
CE-S	NAC DET.	NAD DET.
CC-S	150,000	50,000
CR-S	5000,000	1000,000
CL-S	100,000	150,000
LA-S	NAC DET.	50,000
MO-S	NAC DET.	NAD DET.
NE-S	10,000	15,000
NI-S	+5000,000	200,000
PB-S	15,000	30,000
SE-S	NAC DET.	NAD DET.
SC-S	30,000	50,000
SN-S	NAC DET.	NAD DET.
SF-S	NAC DET.	NAD DET.
V-S	50,000	300,000
W-S	NAC DET.	NAD DET.
Y-S	20,000	20,000
ZN-S	NAC DET.	NAD DET.
ZR-S	100,000	500,000
CU-AA	45,000	60,000
PE-AA	25,000	20,000
ZN-AA	55,000	40,000
AC-AA	INTERFER.	INTERFER.
CO-AA		
NI-AA		
BI-AA		
CE-AA		
TE-AA		
AU-AA		

CPRM

LISTAGEM DE AMOSTRAS

03.02.76

FLA. UNICA

SISTEMA DE ESTATISTICA DE AMOSTRAGEM

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FOLHA DE CONTROLE - PROGRAMA PRCOMCC7

\*\*\* OPCOES \*\*\*

ARQUIVO

C 0 0 0 0 0 0 0 0 0

FS193260

AMOSTRAS LIDAS 21

AMOSTRAS IMPRESSAS 21

N. INICIAL DA PAGINA 1

N. FINAL DA PAGINA 6

N. DE AMOSTRA INICIAL

N. DE AMOSTRAS FINAL

150

S E A G

PROJETO LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

	SOLOS DE PERFIS HOR. C FINHEIRO C. DA ARVORE									
NUM. LAB. NUM. CAMPO CXCUCCL MET PES CO-CCL MO-CCL W-COL P-COL SE-CCL U-CCL TI-CCL % HG-INS F-INS S-INS % C-INS % PH AU-P ORG AU-P ANL	JAC070A CK0314	JAC072 CK0316	JAC073 CK0316A	JAC075 CK0320	JAC076 CK0321	JAC078 CK0323	JAC079 CK0323A	JAC082 CK0325	JAC084 CK0327	JAC085 CK0328
	20,000	40,000	40,000	40,000	20,000	20,000	20,000	80,000	20,000	40,000
	700,000	800,000	700,000	800,000	900,000	600,000	700,000	600,000	600,000	600,000











S E A G

PROJETO LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CLSTO - 1533.300

## SOLOS DE PERFIS HOR. C. PINHEIRO C. DA ARVORE

NUM. LAB.	JAC053	JADC56	JADC58	JAC059	JAC061	JAC062	JAC064	JADC65	JADC68	JAC070
NUM. CAMPO	CK0296	CK0301	CK0303	CK0303A	CK0305	CK0306	CK0308	CK0309	CK0312	CK0314
AMB. BIOTICO										
PARAMETROS ANALITICOS DE CAMPO										
EH										
PH										
METAL TOTAL										
CODIF. LIVRE	A1141	A1011	A1031	A1033	A1051	A1052	A1071	A1072	A1091	A1111
PARAMETROS ANALITICOS										
FE-S %	3,000	5,000	5,000	3,000	3,000	5,000	3,000	3,000	5,000	3,000
MG-S %	0,200	0,500	0,300	0,300	0,200	0,300	0,200	0,300	0,500	0,300
CA-S %	0,100	0,070	0,070	0,050	0,050	0,050	0,050	-0,050	-0,050	0,100
TI-S %	0,500	1,000	0,700	0,500	0,500	0,700	0,700	0,500	0,700	0,500
MN-S	500,000	700,000	500,000	500,000	1000,000	700,000	700,000	700,000	700,000	1000,000
AG-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
AS-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.
AU-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
B-S	20,000	50,000	50,000	50,000	50,000	50,000	50,000	30,000	50,000	20,000
BA-S	300,000	500,000	300,000	300,000	300,000	300,000	200,000	200,000	200,000	300,000
BE-S	10,000	15,000	15,000	10,000	10,000	10,000	15,000	10,000	10,000	10,000
BI-S	20,000	20,000	15,000	20,000	15,000	15,000	10,000	10,000	10,000	-10,000
CC-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
CO-S	10,000	15,000	10,000	10,000	5,000	10,000	10,000	10,000	10,000	5,000
CR-S	15,000	20,000	20,000	10,000	-10,000	20,000	10,000	15,000	10,000	-10,000
CU-S	20,000	100,000	50,000	30,000	30,000	20,000	20,000	30,000	15,000	5,000
LA-S	100,000	500,000	200,000	200,000	200,000	300,000	200,000	300,000	200,000	200,000
MO-S	-5,000	5,000	7,000	5,000	-5,000	5,000	5,000	-5,000	-5,000	-5,000
NB-S	15,000	30,000	20,000	50,000	15,000	20,000	30,000	20,000	30,000	10,000
NI-S	10,000	10,000	10,000	10,000	5,000	10,000	10,000	10,000	15,000	7,000
PE-S	150,000	150,000	70,000	100,000	50,000	70,000	100,000	100,000	100,000	70,000
SB-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SC-S	10,000	20,000	20,000	20,000	10,000	20,000	15,000	15,000	15,000	7,000
SN-S	50,000	70,000	50,000	50,000	30,000	50,000	30,000	30,000	30,000	15,000
SR-S	-100,000	100,000	-100,000	-100,000	-100,000	100,000	-100,000	-100,000	-100,000	-100,000
V-S	20,000	50,000	30,000	50,000	30,000	50,000	50,000	50,000	50,000	30,000
W-S	-50,000	-50,000	-50,000	50,000	-50,000	-50,000	-50,000	50,000	NAC DET.	NAC DET.
Y-S	70,000	200,000	200,000	150,000	100,000	150,000	100,000	100,000	70,000	70,000
ZN-S	NAO DET.	NAO DET.	-200,000	-200,000	200,000	-200,000	NAO DET.	NAO DET.	-200,000	-200,000
ZR-S	500,000	+1000,000	700,000	+1000,000	1000,000	1000,000	+1000,000	+1000,000	+1000,000	1000,000
CU-AA	15,000	30,000	25,000	25,000	25,000	25,000	20,000	20,000	10,000	5,000
PP-AA	30,000	35,000	30,000	30,000	25,000	30,000	20,000	35,000	25,000	30,000
ZN-AA	60,000	75,000	60,000	60,000	60,000	70,000	65,000	80,000	50,000	75,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CD-AA										
TE-AA										
AU-AA	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AS-CCL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SB-COL	-1,000	-1,000	-1,000	-1,000	-1,000	1,000	-1,000	1,000	-1,000	-1,000

SOLOS DE PERFIS HOR. C FINHEIRO C. DA ARVORE

NUM. LAB. NUM. CAMPO CXCUCCL MET PES CO-CCL MO-CCL W-CCL P-CCL SF-CCL U-CCL TI-CCL % HG-INS F-INS S-INS % C-INS % PH AU-P ORG AU-P ANL	JAD053 CK0296	JADC56 CK0301	JADC58 CK0303	JAC059 CK0303A	JAC061 CK0305	JACC62 CK0306	JACC64 CK0308	JACC65 CK0309	JACC68 CK0312	JAC070 CK0314
	40,000	80,000	80,000	80,000	40,000	40,000	80,000	40,000	20,000	20,000
	800,000	800,000	800,000	800,000	800,000	900,000	900,000	1000,000	600,000	700,000

	SOLOS DE PERFIS HCR. C PINHEIRO C. DA ARVORE									
NUM. LAB. NUM. CAMPO CXCU-CCL MET PES CC-CCL MO-CCL W-COL P-COL SE-CCL U-CCL TI-CCL X HG-INS F-INS S-INS X C-INS X PH AU-P ORG AU-P ANL	JAC038 CK0283	JADC40 CK0285	JACC41 CK0285A	JACC43 CK0287	JAC045 CK0289	JACC45A CK0289	JACC47 CK0291	JACC4E CK0292	JACC50 CK0294	JAC051 CK0294A
	NAD DET.	NAD DET.	NAC DET.	20,000	20,000	20,000	20,000	20,000	20,000	20,000
	400,000	400,000	400,000	600,000	600,000	600,000	600,000	600,000	400,000	450,000







S E A G

PROJETO EVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

SOLOS DE PERFIS HOR. C PINHEIRO C. DA ARVORE

NUM. LAB.	JAC038	JADC4C	JACC41	JACC43	JAC045	JACC45A	JAC047	JADC4E	JACC5G	JAC051
NUM. CAMPO	CK0283	CK0285	CK0285A	CK0287	CK0289	CK0289	CK0291	CK0292	CK0294	CK0294A

AMB. PIOTICO

PARAMETROS ANALITICOS DE CAMPO

EH

PH

METAL TOTAL

CODIF. LIVRE

A1021	A1041	A1043	A1061	A1081	A1081	A1101	A1102	A1121	A1123
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PARAMETROS ANALITICOS

FE-S %	1,000	2,000	3,000	5,000	3,000	3,000	3,000	2,000	3,000
MG-S %	0,100	0,150	0,200	0,200	0,200	0,300	0,300	0,150	0,150
CA-S %	0,070	0,050	0,050	-0,050	0,050	0,070	0,070	0,070	0,070
TI-S %	0,150	0,200	0,300	0,500	0,200	0,700	0,300	0,300	0,500
MN-S	300,000	300,000	300,000	200,000	200,000	300,000	500,000	300,000	300,000
AG-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AS-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AU-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
B-S	50,000	30,000	20,000	20,000	20,000	20,000	20,000	50,000	50,000
BA-S	150,000	200,000	300,000	300,000	300,000	200,000	150,000	150,000	150,000
BE-S	7,000	5,000	5,000	3,000	7,000	5,000	5,000	5,000	5,000
BI-S	-10,000	-10,000	10,000	10,000	10,000	10,000	-10,000	10,000	10,000
CC-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CD-S	-5,000	5,000	10,000	7,000	5,000	10,000	10,000	5,000	7,000
CR-S	10,000	10,000	15,000	20,000	15,000	20,000	20,000	10,000	10,000
CU-S	20,000	30,000	30,000	50,000	20,000	30,000	20,000	20,000	20,000
LA-S	70,000	50,000	50,000	70,000	50,000	100,000	70,000	100,000	70,000
MO-S	NAO DET.	-5,000	-5,000	5,000	-5,000	7,000	-5,000	-5,000	-5,000
NE-S	-10,000	10,000	10,000	20,000	-10,000	20,000	-10,000	15,000	15,000
NI-S	5,000	10,000	20,000	20,000	10,000	20,000	10,000	7,000	7,000
PE-S	100,000	100,000	100,000	150,000	100,000	100,000	150,000	100,000	100,000
SB-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SC-S	5,000	7,000	10,000	15,000	10,000	20,000	15,000	7,000	7,000
SN-S	10,000	15,000	20,000	50,000	30,000	20,000	20,000	20,000	20,000
SR-S	NAC DET.	-100,000	-100,000	-100,000	-100,000	-100,000	-100,000	-100,000	-100,000
V-S	20,000	30,000	20,000	30,000	30,000	50,000	30,000	30,000	30,000
W-S	NAC DET.	NAO DET.	-50,000	50,000	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
Y-S	30,000	30,000	50,000	50,000	30,000	70,000	50,000	70,000	70,000
ZN-S	NAO DET.	-200,000	-200,000	-200,000	200,000	-200,000	-200,000	-200,000	-200,000
ZR-S	300,000	500,000	500,000	300,000	200,000	500,000	500,000	500,000	500,000
CU-AA	15,000	10,000	10,000	20,000	15,000	15,000	15,000	10,000	10,000
PB-AA	25,000	30,000	30,000	35,000	35,000	35,000	35,000	25,000	25,000
ZN-AA	35,000	40,000	40,000	40,000	45,000	45,000	60,000	45,000	45,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA									
NI-AA									
BI-AA									
CD-AA									
TE-AA									
AU-AA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AS-CCL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SB-CCL	-1,000	-1,000	-1,000	-1,000	-1,000	-1,000	1,000	1,000	-1,000



SISTEMA DE ESTATISTICA DE AMOSTRAGEM

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FOLHA DE CONTROLE - PROGRAMA PRGCM007

\*\*\* OPCOES \*\*\*

ARQUIVO

C O O O O O G C O O

FS193284

AMOSTRAS LIDAS 100

AMOSTRAS IMPRESSAS 100

N. INICIAL DA PAGINA 1

N. FINAL DA PAGINA 30

N. DE AMOSTRA INICIAL

N. DE AMOSTRAS FINAL

S E A G

PROJETO - LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CLSTO - 1533.300

	SOLOS DE PERFIS HOR. A PINHEIRO C. DA ARVORE									
NUM. LAB. NUM. CAMPO CXCU-CCL MFT PES CO-CCL MO-CCL W-COL P-CCL SF-CCL U-CCL TI-CCL ? FG-INS F-INS S-INS ? C-INS ? PH AU-P ORG AU-P ANL	JAC621 CK0434	JAC623 CK0436	JAC625 CK0438	JAC627 CK0440	JAC629 CK0442	JAC631 CK0444	JAC631A CK0444	JAC633 CK0446	JAC635 CK0448	JAC637 CK0450
	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000
	600,000	1.000,000	425,000	425,000	475,000	600,000	600,000	450,000	450,000	450,000





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PROJETO - LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

## SOLOS DE PERFIS HOR. A PINHEIRO C. DA ARVORE

NUM. LAB.	JAC621	JAC623	JAC625	JAC627	JAC629	JAC631	JAC631A	JAC633	JAC635	JAC637
NUM. CAMPO	CK0434	CK0436	CK0438	CK0440	CK0442	CK0444	CK0444	CK0446	CK0448	CK0450
AMB. BIOTICO										
PARAMETROS ANALITICOS DE CAMPO										
EH										
PH										
METAL TOTAL										
CODIF. LIVRE	A5121	A5131	A5141	A5151	A5161	A5171	A5171	A5181	A5191	A5201
PARAMETROS ANALITICOS										
FE-S %	5,000	5,000	5,000	2,000	2,000	3,000		2,000	1,500	2,000
MG-S %	0,300	0,500	0,300	0,300	0,300	0,300		0,300	0,200	0,200
CA-S %	0,150	0,150	0,150	0,150	0,150	0,150		0,200	0,150	0,150
TI-S %	1,000	0,500	0,500	0,500	0,500	1,000		0,500	0,300	0,500
MN-S	1500,000	700,000	1500,000	1500,000	1000,000	500,000		500,000	500,000	500,000
AG-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.		NAO DET.	NAC DET.	NAC DET.
AS-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.		NAO DET.	NAC DET.	NAC DET.
AU-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.		NAO DET.	NAC DET.	NAC DET.
B-S	20,000	10,000	10,000	10,000	10,000	15,000		15,000	10,000	10,000
BA-S	2000,000	1500,000	2000,000	1500,000	1000,000	1000,000		1000,000	500,000	700,000
BF-S	3,000	5,000	2,000	3,000	3,000	2,000		3,000	3,000	3,000
BI-S	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000		-10,000	-10,000	-10,000
CO-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.		NAO DET.	NAC DET.	NAC DET.
CO-S	10,000	10,000	10,000	10,000	10,000	10,000		5,000	5,000	5,000
CR-S	15,000	10,000	10,000	10,000	10,000	15,000		10,000	10,000	15,000
CU-S	50,000	50,000	20,000	20,000	20,000	20,000		20,000	10,000	15,000
LA-S	150,000	300,000	100,000	100,000	70,000	100,000		50,000	50,000	50,000
MO-S	10,000	7,000	7,000	5,000	5,000	5,000		-5,000	-5,000	-5,000
NE-S	30,000	30,000	30,000	30,000	50,000	50,000		50,000	30,000	50,000
NI-S	5,000	7,000	5,000	5,000	7,000	5,000		5,000	5,000	10,000
PE-S	50,000	30,000	30,000	50,000	50,000	70,000		50,000	20,000	30,000
SE-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.		NAO DET.	NAC DET.	NAC DET.
SC-S	10,000	15,000	10,000	10,000	10,000	10,000		10,000	5,000	5,000
SN-S	20,000	15,000	10,000	15,000	20,000	20,000		15,000	10,000	10,000
SR-S	100,000	100,000	NAC DET.	NAO DET.	NAO DET.	NAO DET.		NAO DET.	NAC DET.	NAC DET.
V-S	50,000	50,000	50,000	70,000	70,000	70,000		70,000	50,000	50,000
W-S	-50,000	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.		NAO DET.	NAC DET.	NAC DET.
Y-S	100,000	100,000	70,000	50,000	50,000	70,000		70,000	50,000	70,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.		NAO DET.	NAC DET.	NAC DET.
ZR-S	1000,000	700,000	700,000	500,000	500,000	1000,000		700,000	300,000	500,000
CU-AA	15,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
PE-AA	15,000	15,000	15,000	15,000	20,000	20,000	20,000	15,000	20,000	15,000
ZN-AA	30,000	25,000	25,000	30,000	20,000	25,000	25,000	25,000	30,000	25,000
AG-AA	INTERFER.	NAO DET.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CO-AA										
TE-AA										
AU-AA	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.		NAO DET.	NAC DET.	NAC DET.
AS-COL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000		-10,000	-10,000	-10,000
SB-CCL	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.		NAO DET.	NAC DET.	-1,000

S E A G

PRCJETC - LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

## SOLOS DE PERFIS HOR. A PINHEIRO C. DA ARVORE

NUM. LAB. NUM. CAMPO AMB. BIOTICO	JAC601 CK0417	JAC602 CK0418	JAC604 CK0420	JAC607 CK0422	JAC610 CK0425	JAC613 CK0428	JAC614 CK0428A	JAC616 CK0430	JAC617 CK0430A	JAC619 CK0432
PARAMETROS ANALITICOS DE CAMPO										
EH										
PH										
METAL TOTAL										
CODIF. LIVRE	A5101	A5102	A5011	A5031	A5051	A5071	A5072	A5091	A5093	A5111
PARAMETROS ANALITICOS										
FE-S %	3,000	10,000	3,000	3,000	5,000	10,000	10,000	7,000	10,000	3,000
MG-S %	0,100	0,500	0,200	0,200	0,200	0,300	0,500	0,500	0,500	0,300
CA-S %	0,150	0,150	0,150	0,150	0,100	0,150	0,150	0,150	0,150	0,150
TI-S %	0,700	1,000	0,700	1,000	+1,000	+1,000	+1,000	+1,000	+1,000	0,700
MN-S	700,000	700,000	1500,000	1500,000	1000,000	2000,000	2000,000	1000,000	1500,000	2000,000
AG-S	1,000	NAC DET.	3,000	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AS-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AU-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
B-S	50,000	50,000	10,000	20,000	20,000	20,000	30,000	50,000	50,000	20,000
BA-S	1000,000	1000,000	1500,000	1500,000	1000,000	1500,000	1500,000	1500,000	1500,000	2000,000
BF-S	5,000	7,000	5,000	5,000	3,000	5,000	5,000	10,000	10,000	3,000
BI-S	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	10,000	10,000	-10,000
CD-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
CO-S	10,000	20,000	10,000	10,000	20,000	50,000	50,000	20,000	20,000	10,000
CR-S	15,000	20,000	30,000	50,000	150,000	200,000	200,000	50,000	50,000	20,000
CU-S	15,000	50,000	20,000	50,000	50,000	100,000	100,000	50,000	70,000	50,000
LA-S	200,000	700,000	100,000	100,000	50,000	70,000	70,000	100,000	100,000	200,000
MO-S	-5,000	7,000	5,000	5,000	5,000	7,000	7,000	7,000	10,000	5,000
NB-S	30,000	50,000	30,000	50,000	30,000	50,000	50,000	50,000	50,000	30,000
NI-S	10,000	15,000	10,000	15,000	20,000	50,000	50,000	15,000	15,000	10,000
PE-S	70,000	100,000	50,000	50,000	50,000	70,000	70,000	100,000	100,000	50,000
SE-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
SC-S	10,000	20,000	10,000	20,000	20,000	50,000	50,000	20,000	30,000	10,000
SN-S	15,000	20,000	15,000	15,000	15,000	20,000	20,000	50,000	50,000	20,000
SR-S	NAC DET.	NAC DET.	100,000	100,000	NAC DET.	200,000	200,000	100,000	100,000	100,000
V-S	50,000	100,000	70,000	100,000	100,000	200,000	200,000	100,000	100,000	70,000
W-S	NAC DET.	-50,000	NAC DET.	NAC DET.	-50,000	-50,000	-50,000	-50,000	-50,000	NAC DET.
Y-S	70,000	150,000	70,000	100,000	50,000	70,000	70,000	100,000	100,000	100,000
ZN-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	NAC DET.
ZR-S	1000,000	+1000,000	500,000	1000,000	500,000	700,000	1000,000	+1000,000	+1000,000	1000,000
CU-AA	10,000	15,000	20,000	20,000	20,000	20,000	25,000	20,000	20,000	40,000
PE-AA	25,000	35,000	15,000	20,000	20,000	35,000	35,000	30,000	30,000	20,000
ZN-AA	55,000	75,000	40,000	60,000	75,000	110,000	100,000	85,000	50,000	35,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NJ-AA										
BI-AA										
CC-AA										
TE-AA										
AU-AA	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	-0,050	NAC DET.
AS-CCL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SB-CCL	-1,000	-1,000	NAC DET.	-1,000	NAC DET.	-1,000	-1,000	-1,000	NAC DET.	NAC DET.

SOLOS DE PERFIS HOR. A FINHEIRO C. DA ARVORE

NUM. LAB. NUM. CAMPO CXCU-CCL MET FES CO-CCL MO-CCL W-CCL P-CCL SE-CCL U-CCL TI-CCL % HG-INS F-INS S-INS % C-INS % PH AU-P ORG AU-P ANL	JAC601 CK0417	JAC602 CK0418	JAC604 CKC420	JAC607 CK0422	JAC610 CK0425	JAC612 CK0428	JAC614 CK0428A	JAC616 CK0430	JAC617 CKC430A	JAC619 CK0432
	20,000	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000
	400,000	375,000	600,000	700,000	600,000	700,000	700,000	350,000	375,000	500,000











SOLOS DE PERFIS HOR. A PINHEIRO C. DA ARVORE

NUM. LAB. NUM. CAMPO AMB. BIOTICO	JAC584 CK0402A	JAC586 CK0404	JAC587 CK0405	JAC589 CK0407	JAC590 CK0408	JAC592 CK0410	JAC593 CK0410A	JAC595 CK0412	JAC596 CK0412A	JAC598 CK0414
PARAMETROS ANALITICOS DE CAMPO										
EH										
PH										
METAL TOTAL										
CODIF. LIVRE	A3133	A3151	A3152	A5021	A5022	A5041	A5042	A5061	A5063	A5081
PARAMETROS ANALITICOS										
FE-S %	3,000	3,000	2,000	1,500	2,000	2,000	2,000	3,000	3,000	2,000
MG-S %	0,200	0,300	0,200	0,200	0,200	0,200	0,300	0,200	0,200	0,200
CA-S %	0,100	0,100	0,100	0,050	0,150	0,150	0,100	0,100	0,100	0,100
TI-S %	1,000	1,000	1,000	0,200	0,700	0,700	0,500	1,000	1,000	0,700
MN-S	1000,000	500,000	700,000	200,000	1000,000	700,000	500,000	700,000	700,000	500,000
AC-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	3,000	NAO DET.	NAC DET.	NAC DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AU-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
B-S	50,000	30,000	20,000	10,000	30,000	30,000	20,000	50,000	50,000	30,000
BA-S	1000,000	1000,000	1000,000	300,000	1000,000	700,000	700,000	1000,000	1000,000	1000,000
BF-S	3,000	5,000	10,000	1,000	5,000	3,000	2,000	5,000	5,000	5,000
BI-S	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
CD-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CO-S	15,000	10,000	10,000	NAC DET.	5,000	5,000	5,000	5,000	5,000	5,000
CR-S	30,000	20,000	20,000	10,000	15,000	15,000	15,000	20,000	20,000	10,000
CU-S	20,000	15,000	5,000	15,000	15,000	15,000	20,000	15,000	15,000	15,000
LA-S	200,000	200,000	200,000	NAC DET.	70,000	70,000	50,000	200,000	150,000	200,000
MO-S	5,000	5,000	-5,000	NAC DET.	NAO DET.	-5,000	-5,000	5,000	5,000	-5,000
NE-S	20,000	30,000	30,000	20,000	50,000	30,000	30,000	50,000	50,000	50,000
NI-S	15,000	15,000	10,000	10,000	7,000	10,000	10,000	10,000	10,000	10,000
PE-S	70,000	70,000	70,000	50,000	50,000	30,000	100,000	50,000	50,000	70,000
SB-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SC-S	10,000	15,000	10,000	5,000	10,000	10,000	10,000	15,000	15,000	10,000
SN-S	200,000	20,000	20,000	10,000	15,000	15,000	20,000	10,000	10,000	15,000
SR-S	100,000	NAO DET.	100,000	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
V-S	50,000	50,000	50,000	30,000	50,000	50,000	50,000	50,000	50,000	50,000
W-S	-50,000	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
Y-S	70,000	70,000	100,000	50,000	100,000	100,000	50,000	100,000	70,000	100,000
ZN-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
ZR-S	1000,000	1000,000	700,000	200,000	500,000	500,000	700,000	1000,000	1000,000	1000,000
CU-AA	20,000	10,000	5,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
PE-AA	25,000	25,000	20,000	15,000	20,000	15,000	15,000	20,000	20,000	20,000
ZN-AA	35,000	35,000	30,000	20,000	25,000	20,000	20,000	30,000	30,000	50,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CC-AA										
TE-AA										
AU-AA	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	-0,050	NAO DET.	NAC DET.	NAC DET.
AS-CCL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SB-CCL	NAO DET.	NAO DET.	-1,000	NAC DET.	NAO DET.	-1,000	-1,000	-1,000	-1,000	-1,000



S E A G

PROJETO LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

## SOLOS DE PERFIS HOP. A PINHEIRO C. DA ARVORE

NUM. LAB. NUM. CAMPO AMB. BIOTICO	JAD564 CK0385A	JAD566 CK0387	JAD569 CK0390	JAD571 CK0392	JAD572 CK0393	JAD574 CK0395	JAD577 CK0398	JAD578 CK0398A	JAD580 CK0400	JAD583 CK0402
PARAMETROS ANALITICOS DE CAMPO										
EH										
PH										
METAL TOTAL										
CODIF. LIVRE	A3163	A3011	A3031	A3051	A3052	A3071	A2091	A3093	A3111	A3131
PARAMETROS ANALITICOS										
FE-S %	3,000	3,000	3,000	5,000	2,000	3,000	3,000	3,000	3,000	3,000
MG-S %	0,500	0,200	0,300	0,300	0,200	0,200	0,200	0,300	0,300	0,200
CA-S %	0,150	0,150	0,100	0,100	0,050	0,100	0,100	0,100	-0,050	0,100
TI-S %	0,500	0,700	0,700	0,700	1,000	0,700	0,700	0,700	0,500	1,000
MN-S	700,000	700,000	1000,000	700,000	500,000	500,000	700,000	500,000	300,000	1000,000
AG-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
AU-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
B-S	20,000	50,000	50,000	30,000	20,000	20,000	20,000	30,000	10,000	50,000
BA-S	1000,000	1500,000	1000,000	1000,000	1000,000	1000,000	1000,000	1000,000	1000,000	1000,000
BF-S	5,000	3,000	5,000	3,000	2,000	3,000	3,000	2,000	2,000	3,000
BI-S	-10,000	10,000	20,000	20,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
CD-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CO-S	10,000	20,000	30,000	20,000	15,000	20,000	10,000	10,000	10,000	15,000
CR-S	15,000	20,000	20,000	15,000	15,000	20,000	15,000	20,000	30,000	30,000
CU-S	5,000	100,000	150,000	100,000	50,000	70,000	70,000	50,000	70,000	20,000
LA-S	200,000	150,000	100,000	150,000	200,000	150,000	150,000	200,000	100,000	200,000
MO-S	-5,000	15,000	10,000	10,000	5,000	10,000	10,000	10,000	-5,000	5,000
NP-S	20,000	50,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
NI-S	10,000	15,000	15,000	15,000	5,000	15,000	15,000	15,000	10,000	15,000
PB-S	70,000	200,000	150,000	150,000	100,000	100,000	150,000	100,000	150,000	50,000
SB-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SC-S	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
SN-S	20,000	700,000	100,000	300,000	100,000	500,000	150,000	100,000	50,000	20,000
SR-S	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	NAC DET.	100,000
V-S	50,000	50,000	70,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
W-S	NAO DET.	-50,000	-50,000	-50,000	-50,000	-50,000	-50,000	-50,000	-50,000	-50,000
Y-S	70,000	50,000	50,000	50,000	50,000	70,000	70,000	70,000	50,000	70,000
ZN-S	NAO DET.	NAO DET.	-200,000	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
ZR-S	700,000	+1000,000	1000,000	1000,000	1000,000	1000,000	1000,000	1000,000	1000,000	1000,000
CU-AA	5,000	40,000	80,000	40,000	30,000	25,000	20,000	30,000	30,000	20,000
PF-AA	20,000	40,000	50,000	40,000	35,000	45,000	40,000	40,000	35,000	25,000
ZN-AA	50,000	45,000	55,000	40,000	35,000	45,000	35,000	35,000	40,000	35,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CD-AA										
TE-AA										
AU-AA	-0,050	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AS-COL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SB-CCL	-1,000	-1,000	-1,000	-1,000	-1,000	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.











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PRCJETC - VANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.2CC

## SOLOS DE PERFIS HOR. A PINHEIRO C. DA ARVORE

NUM. LAB. NUM. CAMPO AMB. PIOTICO	JAC549 CK0373	JAD550 CK0374	JAC552 CK0376	JAC553 CK0376A	JAC555 CK0378	JAC557 CK0380	JAC558 CK0280A	JAD560 CK0382	JAD561 CK0383	JAC563 CK0385
PARAMETROS ANALITICOS DE CAMPO										
EH PH METAL TOTAL CODIF. LIVRE	A3061	A3062	A3081	A3083	A3101	A3121	A3123	A3141	A3142	A3161
PARAMETROS ANALITICOS										
FE-S %	3,000	2,000	3,000	3,000	2,000	2,000	2,000	2,000	3,000	3,000
MG-S %	0,200	0,150	0,200	0,200	0,200	0,200	0,200	0,200	0,200	0,300
CA-S %	0,150	0,100	0,100	0,100	0,150	0,150	0,150	0,100	0,100	0,150
TI-S %	0,700	0,700	0,700	0,700	1,000	0,700	0,500	0,500	1,000	0,500
MN-S	700,000	700,000	700,000	700,000	700,000	700,000	500,000	700,000	700,000	500,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	15,000
BA-S	1000,000	1000,000	1000,000	1000,000	1000,000	1000,000	1000,000	1000,000	1000,000	1000,000
BE-S	3,000	3,000	5,000	5,000	2,000	3,000	3,000	5,000	3,000	3,000
BI-S	10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	20,000	20,000	20,000	20,000	10,000	10,000	10,000	5,000	10,000	10,000
CR-S	15,000	15,000	15,000	15,000	20,000	15,000	15,000	10,000	20,000	15,000
CU-S	50,000	30,000	50,000	50,000	15,000	5,000	5,000	5,000	10,000	20,000
LA-S	200,000	150,000	200,000	150,000	200,000	200,000	200,000	150,000	200,000	200,000
MO-S	10,000	10,000	5,000	5,000	5,000	5,000	5,000	-5,000	-5,000	-5,000
NB-S	50,000	30,000	50,000	50,000	50,000	20,000	20,000	30,000	50,000	30,000
NI-S	10,000	10,000	10,000	10,000	10,000	10,000	10,000	7,000	15,000	10,000
PE-S	150,000	70,000	100,000	100,000	100,000	100,000	70,000	70,000	70,000	70,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	10,000	10,000	10,000	10,000	10,000	7,000	7,000	7,000	10,000	10,000
SN-S	100,000	200,000	70,000	50,000	20,000	20,000	15,000	30,000	20,000	10,000
SR-S	100,000	100,000	100,000	100,000	100,000	100,000	100,000	NAO DET.	NAO DET.	100,000
V-S	50,000	30,000	50,000	50,000	30,000	50,000	50,000	30,000	50,000	50,000
W-S	-50,000	-50,000	-50,000	-50,000	-50,000	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	50,000	100,000	50,000	50,000	70,000	100,000	70,000	50,000	70,000	70,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	+1000,000	1000,000	1000,000	700,000	1000,000	700,000	1000,000	1000,000	1000,000	700,000
CU-AA	35,000	30,000	30,000	35,000	15,000	5,000	5,000	5,000	5,000	5,000
PE-AA	40,000	40,000	30,000	35,000	20,000	20,000	20,000	20,000	25,000	20,000
ZN-AA	40,000	35,000	40,000	40,000	30,000	40,000	35,000	35,000	40,000	35,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CC-AA										
TE-AA										
AU-AA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-CCL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SB-COL	-1,000	-1,000	1,000	-1,000	-1,000	-1,000	-1,000	1,000	-1,000	-1,000

SOLOS DE PERFIS HOR. A PINHEIRO C. DA ARVORE

NUM. LAB.	JAC530	JAD531	JAD531A	JAD533	JAD536	JAD539	JAD540	JAD542	JAD545	JAD547
NUM. CAMPO	CK0358	CK0358A	CK0358A	CK0360	CK0362	CK0364	CK0364A	CK0366	CK0369	CK0371
AMB. ELOTICO										

PARAMETROS ANALITICOS DE CAMPO

FH										
PH										
METAL TOTAL										
CODIF. LIVRE	A2071	A2073	A2073	A2091	A2111	A2131	A2133	A2151	A3021	A3041

PARAMETROS ANALITICOS

FE-S %	3,000	2,000		2,000	5,000	2,000	2,000	5,000	2,000	2,000
MG-S %	0,200	0,200		0,300	0,300	0,300	0,300	0,300	0,200	0,150
CA-S %	0,100	0,100		0,100	0,100	0,150	0,150	0,050	0,150	0,100
TI-S %	0,700	0,700		1,000	0,700	0,700	0,700	1,000	0,700	0,500
MN-S	300,000	300,000		500,000	500,000	700,000	700,000	700,000	500,000	500,000
AG-S	NAD DET.	NAD DET.		1,000	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
AS-S	NAD DET.	NAD DET.		NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
AL-S	NAD DET.	NAD DET.		NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
B-S	20,000	20,000		30,000	30,000	30,000	20,000	20,000	20,000	20,000
BA-S	700,000	700,000		1000,000	1000,000	1000,000	1000,000	1000,000	700,000	1000,000
BE-S	10,000	7,000		20,000	10,000	15,000	15,000	10,000	2,000	3,000
BI-S	-10,000	-10,000		-10,000	-10,000	-10,000	-10,000	-10,000	10,000	-10,000
CC-S	NAD DET.	NAD DET.		NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
CO-S	5,000	5,000		5,000	10,000	5,000	5,000	10,000	20,000	20,000
CR-S	10,000	10,000		15,000	20,000	15,000	15,000	20,000	15,000	15,000
CU-S	20,000	20,000		20,000	30,000	10,000	10,000	15,000	30,000	20,000
LA-S	200,000	200,000		150,000	200,000	150,000	200,000	150,000	150,000	100,000
MO-S	7,000	7,000		5,000	7,000	NAD DET.	NAD DET.	5,000	15,000	7,000
NE-S	50,000	30,000		30,000	30,000	30,000	30,000	30,000	30,000	30,000
NI-S	10,000	10,000		5,000	10,000	10,000	10,000	10,000	10,000	5,000
PE-S	70,000	100,000		100,000	150,000	50,000	70,000	70,000	100,000	100,000
SB-S	NAD DET.	NAD DET.		NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
SC-S	10,000	10,000		10,000	15,000	5,000	5,000	10,000	10,000	10,000
SN-S	100,000	70,000		30,000	50,000	15,000	15,000	15,000	70,000	70,000
SR-S	NAD DET.	NAD DET.		NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
V-S	30,000	30,000		30,000	50,000	20,000	20,000	50,000	50,000	30,000
W-S	-50,000	-50,000		-50,000	-50,000	NAD DET.	NAD DET.	NAD DET.	-50,000	-50,000
Y-S	70,000	50,000		50,000	100,000	50,000	70,000	100,000	70,000	50,000
ZN-S	NAD DET.	NAD DET.		NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
ZR-S	1000,000	700,000		1000,000	1000,000	700,000	700,000	1000,000	1000,000	700,000
CU-AA	25,000	25,000	25,000	25,000	15,000	10,000	10,000	10,000	40,000	40,000
PE-AA	30,000	30,000	30,000	25,000	35,000	20,000	25,000	20,000	45,000	45,000
ZN-AA	35,000	35,000	35,000	35,000	35,000	25,000	40,000	35,000	45,000	45,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CD-AA										
TE-AA										
AU-AA	NAD DET.	NAD DET.		NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
AS-CCL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SB-CCL	-1,000	-1,000	-1,000	-1,000	-1,000	NAD DET.	NAD DET.	-1,000	-1,000	-1,000





SOLOS DE PERFIS POR A FINHEIRO C. DA ARVORE

NUM. LAB. NUM. CAMPO CXCU-CCL MET PES CO-CCL MO-CCL W-COL P-CCL SE-CCL U-COL TI-CCL 2 HG-INS F-INS S-INS 2 C-INS 2 PH AU-P ORG AU-P ANL	JAD513 CK0342A	JAD515 CK0344	JAD516 CK0345	JAD518 CK0347	JAD519 CK0347A	JAD521 CK0349	JAD524 CK0352	JAD525 CK0353	JAD527 CK0355	JAD528 CK0356
	20,000	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000
	300,000	200,000	225,000	275,000	300,000	450,000	350,000	350,000	400,000	350,000







SOLOS DE PERFIS HOP. A PINHEIRO C. DA ARVORE

NUM. LAB.	JAC513	JAD515	JAD516	JAC518	JAC519	JAC521	JAC524	JAD525	JAC527	JAC528
NUM. CAMPO	CK0342A	CK0344	CK0345	CK0347	CK0347A	CK0349	CK0352	CK0353	CK0355	CK0356
AMB. BIOTICO										

PARAMETROS ANALITICOS DE CAMPO

EH										
PH										
METAL TOTAL										
COEF. LIVRE	A2123	A2141	A2142	A2161	A2163	A2011	A2031	A2032	A2051	A2052

PARAMETROS ANALITICOS

FF-S %	3,000	3,000	3,000	5,000	3,000	3,000	3,000	3,000	3,000	3,000
MG-S %	0,200	0,200	0,200	0,300	0,300	0,200	0,200	0,200	0,200	0,200
CA-S %	-0,050	-0,050	-0,050	0,100	0,070	0,070	0,050	0,050	0,050	0,070
TI-S %	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	0,700	1,000
MN-S	500,000	700,000	700,000	1000,000	1000,000	500,000	300,000	200,000	300,000	300,000
AG-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AS-S	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AL-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
B-S	30,000	20,000	20,000	50,000	50,000	20,000	20,000	20,000	50,000	20,000
BA-S	700,000	1000,000	1000,000	1000,000	1000,000	1000,000	1000,000	700,000	700,000	700,000
BE-S	5,000	5,000	5,000	5,000	5,000	5,000	20,000	5,000	5,000	5,000
BI-S	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
CD-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CO-S	5,000	10,000	10,000	15,000	10,000	10,000	5,000	5,000	5,000	5,000
CR-S	20,000	20,000	30,000	30,000	30,000	10,000	10,000	10,000	15,000	10,000
CU-S	50,000	15,000	15,000	15,000	15,000	70,000	50,000	50,000	30,000	20,000
LA-S	150,000	100,000	200,000	300,000	200,000	150,000	150,000	150,000	100,000	100,000
MD-S	5,000	5,000	5,000	NAO DET.	NAO DET.	7,000	7,000	10,000	7,000	7,000
NE-S	30,000	30,000	30,000	50,000	30,000	30,000	50,000	30,000	30,000	30,000
NI-S	10,000	10,000	10,000	15,000	15,000	10,000	5,000	7,000	10,000	5,000
PF-S	100,000	70,000	70,000	70,000	70,000	100,000	100,000	70,000	100,000	100,000
SB-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SC-S	10,000	10,000	10,000	15,000	15,000	10,000	10,000	10,000	10,000	7,000
SN-S	100,000	20,000	20,000	20,000	20,000	50,000	100,000	200,000	70,000	70,000
SR-S	100,000	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
V-S	50,000	50,000	50,000	50,000	50,000	50,000	50,000	30,000	30,000	30,000
W-S	-50,000	-50,000	NAC DET.	NAC DET.	NAO DET.	-50,000	-50,000	-50,000	-50,000	-50,000
Y-S	100,000	70,000	70,000	100,000	100,000	70,000	50,000	50,000	70,000	50,000
ZN-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
ZR-S	1000,000	+1000,000	+1000,000	+1000,000	+1000,000	700,000	700,000	700,000	700,000	1000,000
CU-AA	25,000	15,000	15,000	10,000	10,000	40,000	25,000	25,000	30,000	30,000
PE-AA	30,000	25,000	25,000	25,000	25,000	25,000	20,000	30,000	30,000	30,000
ZN-AA	30,000	25,000	30,000	45,000	45,000	40,000	25,000	40,000	35,000	35,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CD-AA										
TE-AA										
AU-AA	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AS-COL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SB-CCL	NAO DET.	NAO DET.	-1,000	-1,000	-1,000	NAC DET.	-1,000	-1,000	NAC DET.	-1,000

S E A G

PROJETO LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

SOLOS DE PERFIS HCR. A PINHEIRO C. DA ARVORE

NUM. LAB.	JAD081	JADC83	JAD457	JAD500	JAD503	JAD506	JAD506A	JAD505	JAD510	JAD512
NUM. CAMPO	CK0324A	CK0326	CK0329	CK0331	CK0334	CK0336	CK0336	CK0339	CK0340	CK0342
AMP. EJOTICO										

PARAMETROS ANALITICOS DE CAMPO

FH										
PH										
METAL TOTAL										
CODIF. LIVRE	A1203	A1221	A2021	A2041	A2061	A2081	A2081	A2101	A2102	A2121

PARAMETROS ANALITICOS

FE-S %	2,000	1,500	2,000	2,000	3,000	5,000		5,000	3,000	3,000
MG-S %	0,150	0,100	0,200	0,200	0,200	0,300		0,200	0,200	0,200
CA-S %	0,070	0,070	0,100	0,100	0,100	-0,050		0,050	0,050	-0,050
TI-S %	1,000	0,500	1,000	0,700	0,500	0,700		1,000	0,700	1,000
MN-S	1000,000	700,000	200,000	300,000	200,000	200,000		200,000	200,000	500,000
AG-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.		NAO DET.	NAC DET.	NAC DET.
AS-S	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.		NAO DET.	NAC DET.	NAC DET.
AU-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.		NAO DET.	NAC DET.	NAC DET.
B-S	30,000	30,000	20,000	20,000	20,000	30,000		20,000	20,000	50,000
BA-S	500,000	300,000	1000,000	700,000	500,000	700,000		700,000	700,000	700,000
BE-S	15,000	3,000	10,000	10,000	30,000	10,000		5,000	5,000	5,000
BI-S	-10,000	-10,000	10,000	10,000	10,000	30,000		10,000	10,000	-10,000
CO-S	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.		NAO DET.	NAC DET.	NAC DET.
CO-S	5,000	-5,000	10,000	10,000	5,000	10,000		5,000	5,000	5,000
CR-S	15,000	10,000	10,000	10,000	10,000	20,000		15,000	15,000	20,000
CU-S	7,000	15,000	50,000	50,000	70,000	150,000		50,000	50,000	50,000
LA-S	150,000	100,000	200,000	150,000	100,000	200,000		100,000	100,000	150,000
MO-S	-5,000	-5,000	7,000	7,000	5,000	10,000		10,000	7,000	5,000
NE-S	15,000	15,000	50,000	30,000	30,000	30,000		30,000	30,000	30,000
NI-S	5,000	5,000	10,000	10,000	10,000	15,000		15,000	10,000	10,000
PP-S	100,000	70,000	100,000	100,000	70,000	100,000		100,000	100,000	70,000
SB-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.		NAO DET.	NAC DET.	NAC DET.
SC-S	7,000	5,000	10,000	5,000	5,000	15,000		10,000	7,000	10,000
SN-S	15,000	10,000	100,000	100,000	50,000	200,000		50,000	300,000	1000,000
SR-S	100,000	100,000	100,000	NAC DET.	100,000	NAO DET.		NAO DET.	100,000	100,000
V-S	30,000	20,000	50,000	50,000	30,000	50,000		30,000	30,000	50,000
W-S	NAO DET.	NAO DET.	-50,000	-50,000	-50,000	-50,000		-50,000	-50,000	-50,000
Y-S	70,000	150,000	70,000	100,000	70,000	70,000		50,000	50,000	70,000
ZN-S	-200,000	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.		NAO DET.	NAC DET.	NAC DET.
ZR-S	1000,000	1000,000	1000,000	1000,000	700,000	500,000		1000,000	700,000	1000,000
CU-AA	5,000	10,000	45,000	40,000	65,000	65,000	65,000	35,000	35,000	25,000
PE-AA	20,000	20,000	35,000	30,000	40,000	50,000	50,000	30,000	35,000	30,000
ZN-AA	35,000	35,000	40,000	40,000	50,000	50,000	50,000	40,000	40,000	35,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CD-AA										
TE-AA										
AU-AA	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.		NAO DET.	NAC DET.	NAC DET.
AS-CCL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SB-COL	NAO DET.	-1,000	-1,000	-1,000	-1,000	NAO DET.	-1,000	-1,000	-1,000	-1,000

SECS DE PERFIS POP. A FINHEIRO C. DA ARVORE

NUM. LAB. NUM. CAMPO CXCU-CCL MET PES CO-CCL MO-CCL W-COL P-COL SE-CCL U-COL TI-CCL % HG-INS F-INS S-INS % C-INS % PH AU-P ORG AU-P ANL	JAC081 CK0324A	JAC083 CK0326	JAC457 CK0329	JAC500 CK0331	JAC503 CK0334	JAC506 CK0336	JAC506A CK0336	JAC505 CK0335	JAC510 CK0340	JAC512 CK0342
	20,000	40,000	20,000	-20,000	20,000	20,000	20,000	20,000	20,000	-20,000
	300,000	300,000	350,000	325,000	425,000	800,000	800,000	350,000	300,000	300,000



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PROJETO LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

SOLOS DE PERFIS HOR. A FINHEIRO C. DA ARVORE

NUM. LAB. NUM. CAMPO CXCUCCL MET FES CO-CCL MO-CCL W-COL P-CCL SE-CCL U-CCL TI-CCL % HG-INS F-INS S-INS % C-INS % PH AU-P ORG AU-P ANL	JAD057 CK0302	JAD060 CK0304	JAD063 CK0307	JAD066 CK0310	JAD067 CK0311	JAD069 CK0313	JAD071 CK0315	JAD074 CK0319	JAD077 CK0322	JAD080 CK0324
	80,000	80,000	20,000	40,000	20,000	20,000	40,000	40,000	40,000	40,000
	500,000	600,000	700,000	400,000	400,000	450,000	325,000	450,000	400,000	250,000

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PROJETO - Levantamento Geoquimico do RGS

CENTRO DE CUSTO - 1533.300

SCLOS DE PERFIS HOR. A PINHEIRO C. DA APVORE

NUM. LAB.	JAC081	JAD083	JAD497	JAD500	JAD503	JAD506	JAD506A	JAD509	JAD510	JAD512
NUM. CAMPO	CK0324A	CK0326	CK0329	CK0331	CK0334	CK0336	CK0336	CK0339	CK0340	CK0342
C. CLSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300
PROCEDENCIA	AD	AD	AD	AD	AD	AC	AD	AD	AD	AC
BASE CART.	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI
BASE CART.	1	1	1	1	1	1	1	1	1	1
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	07/75	07/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	331124	331132	330371	330372	330374	330378	330378	330386	330386	330402
UTM - LONG.	06610700	06610700	06609150	06609150	06609150	06609150	06609150	06609150	06609150	06609150
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARÂMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	L	L	L	L	L	L	L	L	L	L
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	C	C	C	C	C	C	C	C	C	C
POCHA REC.	D	D	D	D	D	D	D	D	D	D
ID. CECLCC.	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
MAT. COLET.	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO
PLUVIOSIDADE	A	A	D	D	D	D	D	D	D	D
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TERCOG.	D	D	E	E	E	E	E	E	E	E
SIT. AMOST.										
ALTITUDE										
PROF. AMOST.	0,10	0,10	0,20	0,10	0,20	0,20	0,20	0,20	0,20	0,20
FORMA IGNEA										
SIT. ESTAB.										
MATRIZ PRED.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. COCOR.										
LARGURA RIC										
PROFUND. RIO										
VELOC. CORR.										
NIVEL AGLA										
AREA DRENAG.										
TURB. AGLA										
POS. COLETA										
COR AGLA										
GRAU ARREC.										
VCL. ORIGIN.										
PESO COCOR.										
GRANULOMET.										
TEXT. SEDIM.	25 3	25 3	16 12	16 12	16 12	15 22	15 22	16 12	16 12	25 12
COR SEC./SL.	C	C	C	C	C	C	C	C	C	C
HORIZ. SCLO	A	A	A	A	A	A	A	A	A	A
TIPO SCLO	C	C	C	C	C	C	C	C	C	C





S E A G

PROJETO VANTAGEM GEOQUIMICO DO RGS

CENTRO DE CLSTO - 1533.300

SOLOS DE FERFIS HOR. A PINHEIRO C. DA ARVORE

NUM. LAB.	JAC057	JADC60	JACC63	JAC066	JAC067	JADC69	JACC71	JADC74	JACC77	JAC080
NUM. CAMPO	CK0302	CK0304	CK0307	CK0310	CK0311	CK0313	CK0315	CK0319	CK0322	CK0324
AMB. BIOTICO										

PARÂMETROS ANALITICOS DE CAMPO

EM	A1031	A1051	A1071	A1091	A1092	A1111	A1131	A1161	A1181	A1201
PH										
METAL TOTAL										
COEF. LIVRE										

PARÂMETROS ANALITICOS

FE-S %	3,000	2,000	3,000	3,000	2,000	3,000	1,500	3,000	3,000	2,000
MG-S %	0,150	0,150	0,200	0,150	0,150	0,200	0,150	0,200	0,200	0,150
CA-S %	0,070	0,070	0,100	0,100	0,070	0,150	0,050	0,100	0,070	0,070
TI-S %	0,500	0,500	0,700	1,000	0,700	1,000	0,700	1,000	0,700	1,000
MN-S	700,000	1000,000	1500,000	1000,000	1000,000	1500,000	1000,000	1000,000	1000,000	1000,000
AG-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AS-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AU-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
B-S	100,000	50,000	30,000	30,000	50,000	30,000	20,000	20,000	30,000	30,000
BA-S	500,000	300,000	500,000	500,000	300,000	300,000	500,000	500,000	700,000	500,000
BE-S	7,000	10,000	10,000	50,000	7,000	10,000	7,000	10,000	5,000	10,000
BI-S	10,000	15,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
CC-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
CD-S	5,000	5,000	5,000	5,000	-5,000	7,000	5,000	5,000	10,000	5,000
CR-S	10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	10,000	15,000	10,000
CU-S	20,000	20,000	20,000	10,000	10,000	10,000	10,000	10,000	10,000	7,000
LA-S	100,000	100,000	100,000	70,000	70,000	100,000	70,000	100,000	100,000	100,000
MO-S	-5,000	-5,000	NAC DET.	-5,000	NAC DET.	-5,000	-5,000	-5,000	5,000	-5,000
NB-S	20,000	20,000	30,000	20,000	10,000	20,000	20,000	30,000	20,000	20,000
NI-S	5,000	5,000	5,000	5,000	-5,000	7,000	5,000	7,000	7,000	5,000
PE-S	50,000	150,000	100,000	150,000	50,000	100,000	100,000	100,000	150,000	100,000
SE-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
SC-S	5,000	5,000	7,000	7,000	5,000	10,000	7,000	10,000	10,000	5,000
SN-S	20,000	30,000	30,000	20,000	15,000	20,000	15,000	20,000	20,000	15,000
SR-S	100,000	-100,000	100,000	-100,000	-100,000	100,000	100,000	100,000	-100,000	100,000
V-S	20,000	20,000	30,000	30,000	20,000	30,000	30,000	30,000	30,000	30,000
W-S	-50,000	-50,000	-50,000	NAC DET.	NAC DET.	NAC DET.	NAC DET.	-50,000	NAC DET.	NAC DET.
Y-S	100,000	70,000	70,000	70,000	50,000	70,000	50,000	70,000	70,000	70,000
ZN-S	NAC DET.	NAC DET.	-200,000	NAC DET.	-200,000	-200,000	-200,000	-200,000	NAC DET.	-200,000
ZR-S	+1000,000	+1000,000	1000,000	1000,000	700,000	+1000,000	+1000,000	+1000,000	+1000,000	+1000,000
CU-AA	15,000	15,000	10,000	10,000	10,000	5,000	10,000	10,000	5,000	5,000
PE-AA	20,000	25,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000
ZN-AA	40,000	50,000	50,000	40,000	40,000	50,000	35,000	45,000	40,000	35,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CC-AA										
TE-AA										
AU-AA	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AS-COL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SE-CCL	-1,000	1,000	-1,000	-1,000	1,000	-1,000	-1,000	-1,000	-1,000	-1,000



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PROJETO - ( ) ANTAMENTO GEOQUIMICO DO RGS

( ) ENTRO DE CUSTO - 1533.300

SOLCS DE PERFIS HOR. A FINHEIRO C. DA ARVORE

NUM. LAB. NUM. CAMPO CXCU-CCL MFT FES CO-CCL MO-CCL W-COL P-CCL SE-CCL U-CCL TI-CCL % FG-INS F-INS S-INS % C-INS % PH AU-P CRG AU-P ANL	JAD036 CK0281	JAD037 CK0282	JAD039 CK0284	JAD042 CK0286	JAD044 CK0288	JAD046 CK0290	JAD049 CK0293	JAD052 CK0295	JAD054 CK0300	JAD055 CK0300A
	20,000	20,000	NAC DET.	-20,000	20,000	20,000	20,000	20,000	80,000	80,000
	425,000	475,000	350,000	275,000	500,000	325,000	300,000	325,000	600,000	600,000



M

LISTAGEM DE AMOSTRAS

03.02.76

FLA. UNICA

SISTEMA DE ESTATISTICA DE AMOSTRAGEM

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FOLHA DE CONTROLE - PROGRAMA PRGQPC07

\*\*\* OPCOES \*\*\*

ARQUIVO

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FS193283

AMOSTRAS LIDAS 100

AMOSTRAS IMPRESSAS 100

N. INICIAL DA PAGINA 1

N. FINAL DA PAGINA 30

N. DE AMOSTRA INICIAL

N. DE AMOSTRAS FINAL

SOLCS DE PERFIS HCF. A FINHEIRO C. DA ARVORE

NUM. LAB.	JADC36	JADC37	JADC39	JADC42	JADC44	JADC46	JADC49	JADC52	JADC54	JADC55
NUM. CAMPO	CK0281	CK0282	CK0284	CK0286	CK0288	CK0290	CK0293	CK0295	CK0300	CK0300A
C. CLSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300
PROCECENCIA	AD	AD	AC	AD	AD	AC	AD	AD	AD	AC
BASE CART.	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI
BASE CART.	1	1	1	1	1	1	1	1	1	1
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75
LATITUDE										
LONGITUDE										
ABSCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	331141	331141	331141	331143	331147	331155	331172	331204	331099	331099
UTM - LONG.	06610700	06610700	06610700	06610700	06610700	06610700	06610700	06610700	06610700	06610700
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	L	L	L	L	L	L	L	L	L	L
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	C	C	C	C	C	C	C	C	C	C
ROCHA REG.	D	D	D	D	D	D	D	D	D	D
ID. GEOLG.	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
MAT. COLET.	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO
PLUVIOSIDADE	A	A	A	A	A	A	A	A	A	A
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.	D	D	D	D	D	D	D	D	D	D
SIT. AMOST.										
ALTITUDE										
PROF. AMOST.	0,10	0,10	0,10	0,10	0,40	0,10	0,10	0,10	0,10	0,10
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PRED.										
GRAU INTENS.										
TIPO ALTER.										
TIPO MINER.										
DEP. COCCR.										
LARGURA FIC										
PROFUND. PIO										
VELOC. CORR.										
NIVEL AGUA										
AREA DRENAG.										
TURB. AGUA										
POS. COLETA										
CCR AGUA										
GRAU APREC.										
VOL. ORIGIN.										
PESO COCCR.										
GRANULEMET.										
TEXT. SECIM.	25 3	25 3	23 41	15 31	25 3	15 31	24 31	15 31	25 3	25 3
CCR SEC./SL.	C	C	C	C	C	C	C	C	C	C
HORIZ. SCLO	A	A	A	A	A	A	A	A	A	A
TIPO SCLO	C	C	C	C	C	C	C	C	C	C

bt

SOLOS - BACKGROUND - HCP.C PINHEIRO C. ARVORE

NUM. LAB.	JAC658	JAC661	JAC663	JAC665	JAC666	JAC668
NUM. CAMPO	CK0469	CK0471	CK0473	CK0475	CK0476	CK0478
AMB. BIOTICO						

PARAMETROS ANALITICOS DE CAMPO

EH	A0311	A0321	A0331	A0341	A0342	A0351
PH						
METAL TOTAL						
CODIF. LIVRE						

PARAMETROS ANALITICOS

FE-S %	7,000	5,000	7,000	10,000	10,000	5,000
MG-S %	0,300	0,200	0,500	0,500	0,500	0,300
CA-S %	-0,050	-0,050	-0,050	-0,050	-0,050	-0,050
TI-S %	0,500	0,500	0,700	0,700	0,500	0,200
MN-S	300,000	150,000	200,000	200,000	200,000	300,000
AG-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AS-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AU-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
B-S	70,000	20,000	50,000	50,000	50,000	100,000
BA-S	1000,000	150,000	200,000	500,000	500,000	700,000
BE-S	3,000	2,000	2,000	2,000	3,000	5,000
BI-S	-10,000	-10,000	-10,000	-10,000	-10,000	NAC DET.
CD-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
CO-S	20,000	15,000	15,000	20,000	20,000	15,000
CR-S	20,000	20,000	50,000	30,000	30,000	20,000
CU-S	15,000	15,000	20,000	30,000	20,000	10,000
LA-S	300,000	100,000	100,000	200,000	200,000	150,000
MO-S	5,000	5,000	5,000	10,000	7,000	5,000
NP-S	20,000	20,000	30,000	30,000	30,000	20,000
NI-S	15,000	20,000	30,000	20,000	20,000	15,000
PP-S	100,000	50,000	100,000	100,000	150,000	100,000
SB-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
SC-S	20,000	20,000	30,000	20,000	20,000	20,000
SN-S	20,000	10,000	70,000	20,000	20,000	15,000
SR-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
V-S	50,000	100,000	100,000	70,000	70,000	50,000
W-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
Y-S	150,000	70,000	100,000	100,000	100,000	70,000
ZN-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
ZR-S	700,000	500,000	1000,000	500,000	500,000	1000,000
CU-AA	10,000	15,000	10,000	15,000	20,000	10,000
PE-AA	40,000	60,000	70,000	55,000	50,000	45,000
ZN-AA	75,000	60,000	85,000	70,000	65,000	55,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA						
NI-AA						
BI-AA						
CC-AA						
TE-AA						
AU-AA	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AS-COL	10,000	10,000	10,000	10,000	10,000	10,000
SE-COL	2,000	1,000	-1,000	-1,000	1,000	1,000



SOLOS - BACKGROUND - HCP.C PINHEIRO C. ARVORE

NUM. LAB. NUM. CAMPO CXCU-CCL MET PES CO-CCL MO-CCL W-CCL P-CCL SE-CCL U-CCL TI-CCL % HG-INS F-INS S-INS % C-INS % PH AU-P ORG AU-P ANL	JAC658 CK0469	JAD661 CKC471	JAC663 CK0473	JAC665 CK0475	JAC666 CK0476	JAC668 CK0478
	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000
	250,000	275,000	250,000	275,000	280,000	325,000

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S E A G

PROJETO - LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

## SOLOS - BACKGROUND - HCR.C PINHEIRO C. ARVORE

NUM. LAB. NUM. CAMPO CXCU-CCL MET PES CO-CCL MO-CCL W-COL P-CCL SE-CCL U-COL TI-CCL % HG-INS F-INS S-INS % C-INS % PH AU-p ORG AU-P ANL	JAD640 CK0453	JAD641 CK0454	JAD644 CK0456	JAD646 CK0458	JAD648 CK0460	JAD650 CK0462	JAD651 CK0462A	JAD654 CK0465	JAD656 CK0467	JAD656A CK0467
	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000
	300,000	200,000	300,000	225,000	250,000	225,000	250,000	425,000	300,000	300,000

SOLOS - BACKGROUND - HCF.C PINHEIRO C. ARVORE

NUM. LAB.	JAC658	JAC661	JAC663	JAC665	JAC666	JAC668
NUM. CAMPO	CK0469	CK0471	CK0473	CK0475	CK0476	CK0478
C. CLSTO	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300
PRCEDECENCIA	AD	AD	AD	AD	AD	AD
BASE CART.	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI
BASE CART.	1	1	1	1	1	1
BASE CART.						
ESCALA	0050	0050	0050	0050	0050	0050
DATA	08/75	08/75	08/75	08/75	08/75	08/75
LATITUDE						
LONGITUDE						
ABCISSA - X	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000
UTM - LAT.	329700	329600	329300	329400	329400	329450
UTM - LONG.	06620350	06620850	06621300	06621750	06621750	06622300
MER. CENT.	51	51	51	51	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	L	L	L	L	L	L
TIPO AMOST.	B	B	B	B	B	B
FONTE AMOST.	C	C	C	C	C	C
ROCHA REG.	D	D	D	D	D	D
IC. GEOLG.	AS	AS	AS	AS	AS	AS
MAT. CCLET.	SOLO	SOLC	SCLC	SOLO	SOLO	SOLO
PLUVIOSIDADE	D	D	D	D	D	D
TIPO VEGET.	A	A	A	A	A	A
SIT. TOPOG.	D	D	D	E	E	E
SIT. AMOST.						
ALTITUDE						
PPDF. AMOST.	0,60	0,50	0,50	0,60	0,60	0,60
FORMA IGNEA						
SIT. EST.UT.						
MATRIZ PRFD.						
GRAU INTEMP.						
TIPO ALTER.						
TIPO MINER.						
DEP. OCCOR.						
LARGURA FIC						
PROFUND. RIO						
VELOC. CCRR.						
NIVEL AGLA						
AREA DRENAG.						
TURB. AGUA						
POS. CCLETA						
COR AGLA						
GRAU AFREC.						
VOL. CRICIN.						
PESO CCNC.						
GRANULMET.						
TEXT. SEDIM.	33 4	33 4	34 3	33 4	33 4	33 4
COR SEC./SL.	C	B	B	B	B	B
HORIZ. SCLC	C	C	C	C	C	C
TIPO SOLC	F	F	F	F	F	F



SOLOS - BACKGROUND - HCR.C PINHEIRO C. ARVORE

NUM. LAB.	JAD640	JAD641	JAD644	JAD646	JAC648	JAC650	JAC651	JAD654	JAC656	JAC656A
NUM. CAMPO	CK0453	CK0454	CK0456	CK0458	CK0460	CK0462	CK0462A	CK0465	CK0467	CK0467
C. CLUSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLUSTO	300	300	300	300	300	300	300	300	300	300
PRCCELENCIA	AD	AD	AC	AC	AD	AC	AD	AD	AD	AC
BASE CART.	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI
BASE CART.	1	1	1	1	1	1	1	1	1	1
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	331100	331100	330770	331330	331420	329870	329870	329750	329600	329600
UTM - LONG.	06618980	06618980	06618600	06619400	06619900	06618750	06618750	06619270	06619820	06619820
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	L	L	L	L	L	L	L	L	L	L
TIPC AMOST.	B	B	B	B	B	B	B	B	B	B
FNTE AMOST.	C	C	C	C	C	C	C	C	C	C
ROCHA REC.	D	D	D	D	D	D	D	D	D	D
IC. CELECG.	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
MAT. COLET.	SOLO	SOLO	SCLC	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SCLC
PLUVIOSIDADE	D	D	D	D	D	D	D	D	D	D
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.	D	D	E	E	E	E	E	E	D	C
SIT. AMOST.										
ALTITUDE										
PROF. AMOST.	0,60	0,60	0,70	0,70	0,40	0,60	0,60	0,60	0,20	0,20
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PED.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINEF.										
DEP. OCCOR.										
LARGURA RIO										
PROFUND. RIO										
VELOC. CORR.										
NIVEL AGUA										
AREA DRENAG.										
TURB. AGUA										
POS. COLETA										
COR AGUA										
GRAU ARREC.										
VOL. COLETA										
PESO CCNC.										
GRANULOMET.										
TEXT. SEDIM.	2413	2413	2413	1513	33 4	24 4	24 4	24 4	24 4	24 4
COR SEC./SL.	B	B	B	B	B	B	B	B	B	B
HORIZ. SOLC	C	C	C	C	C	C	C	C	C	C
TIPO SOLC	F	F	F	F	F	F	F	F	F	F

SOLOS - BACKGROUND - HCR.C PINHEIRO C. ARVORE

NUM. LAB.	JAC640	JAD641	JAD644	JAD646	JAD648	JAD650	JAD651	JAD654	JAD656	JAD656A
NUM. CAMPO	CK0453	CK0454	CK0456	CK0458	CK0460	CK0462	CK0462A	CK0465	CK0467	CK0467
AMB. PIOTICO										

PARAMETROS ANALITICOS DE CAMPO

EP	A0241	AC242	AC251	A0261	A0271	A0281	AC283	AC291	AC301	A0301
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PARAMETROS ANALITICOS

FF-S %	5,000	5,000	5,000	5,000	5,000	10,000	10,000	5,000	10,000	
MG-S %	0,300	0,300	0,300	0,300	0,500	0,500	0,500	0,500	0,300	
CA-S %	-0,050	-0,050	-0,050	-0,050	-0,050	-0,050	-0,050	-0,050	-0,050	
TI-S %	0,700	0,700	1,000	0,500	0,700	1,000	1,000	0,500	1,000	
MN-S	200,000	150,000	200,000	200,000	200,000	200,000	200,000	700,000	300,000	
AG-S	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	
AS-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	
AU-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	
B-S	50,000	50,000	50,000	20,000	50,000	50,000	50,000	50,000	50,000	
BA-S	150,000	150,000	200,000	500,000	150,000	300,000	300,000	700,000	150,000	
BE-S	3,000	3,000	2,000	5,000	3,000	2,000	2,000	7,000	3,000	
BI-S	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	
CC-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	
CD-S	10,000	10,000	15,000	15,000	20,000	20,000	20,000	20,000	15,000	
CR-S	20,000	20,000	30,000	15,000	30,000	50,000	50,000	15,000	30,000	
CU-S	15,000	15,000	20,000	10,000	20,000	20,000	20,000	10,000	20,000	
LA-S	70,000	70,000	100,000	200,000	100,000	100,000	100,000	200,000	200,000	
MO-S	7,000	7,000	7,000	10,000	7,000	7,000	10,000	5,000	10,000	
NE-S	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	50,000	
NI-S	30,000	30,000	50,000	15,000	50,000	50,000	50,000	15,000	20,000	
PE-S	30,000	50,000	50,000	100,000	70,000	50,000	70,000	70,000	100,000	
SB-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	
SC-S	20,000	20,000	30,000	20,000	30,000	30,000	20,000	15,000	20,000	
SN-S	10,000	10,000	20,000	15,000	15,000	10,000	15,000	20,000	20,000	
SR-S	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	
V-S	100,000	100,000	100,000	50,000	100,000	100,000	100,000	50,000	100,000	
W-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	-50,000	-50,000	
Y-S	70,000	70,000	70,000	70,000	70,000	70,000	70,000	100,000	100,000	
ZN-S	NAO DET.	NAO DET.	-200,000	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	-200,000	
ZR-S	700,000	700,000	700,000	1000,000	500,000	700,000	700,000	700,000	+1000,000	
CU-AA	15,000	15,000	20,000	10,000	15,000	20,000	20,000	10,000	20,000	20,000
PE-AA	45,000	45,000	55,000	60,000	55,000	50,000	50,000	40,000	65,000	70,000
ZN-AA	50,000	55,000	55,000	85,000	60,000	60,000	60,000	75,000	75,000	80,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	
CO-AA										
NI-AA										
BI-AA										
CC-AA										
TE-AA										
AU-AA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	
AS-CCL	10,000	10,000	10,000	-10,000	10,000	10,000	10,000	10,000	10,000	10,000
SB-CCL	2,000	2,000	2,000	2,000	2,000	1,000	1,000	-1,000	1,000	1,000

CPRM

LISTAGEM DE AMOSTRAS

03.02.76

FLA. UNICA

SISTEMA DE ESTATISTICA DE AMOSTRAGEM

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FOLHA DE CONTROLE - PROGRAMA PRGOMP07

\*\*\* OPCOES \*\*\*

ARQUIVO

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FS193282

AMOSTRAS LICAS 16

AMOSTRAS IMPRESSAS 16

N. INICIAL DA PAGINA 1

N. FINAL DA PAGINA 6

N. DE AMOSTRA INICIAL

N. DE AMOSTRAS FINAL

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SOLOS - BACKGROUND - HCP-A PINHEIRO C. ARVORE

NUM. LAB.	JAD655	JAD66C	JAD662	JAD664	JAD667
NUM. CAMPO	CK0470	CKC47CA	CK0472	CK0474	CK0477
CXCU-CCL					
MET PES					
CO-CCL					
MO-CCL					
W-CCL	-20,000	-20,000	-20,000	-20,000	-20,000
P-CCL					
SE-CCL					
U-CCL					
TI-CCL %					
HG-INS					
F-INS	140,000	140,000	130,000	170,000	225,000
S-INS %					
C-INS %					
PH					
AU-P CRG					
AU-P ANL					

SOLOS - BACKGROUND - HOR. A PINHEIRO C. ARVORE

	JAC659	JAC660	JAC662	JAC664	JAC667
NUM. LAB.	JAC659	JAC660	JAC662	JAC664	JAC667
NUM. CAMPO	CK0470	CK0470A	CK0472	CK0474	CK0477
C. CUSTO	1533	1533	1533	1533	1533
S. CUSTO	300	300	300	300	300
PROCEDENCIA	AD	AD	AC	AD	AD
BASE CART.	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI
EASE CART.	1	1	1	1	1
BASE CART.					
ESCALA	0050	0050	0050	0050	0050
DATA	08/75	08/75	08/75	08/75	08/75
LATITUDE					
LONGITUDE					
ABCISSA - X	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000
UTM - LAT.	329600	329600	329300	329400	329450
UTM - LONG.	06620850	06620850	06621300	06621750	06622300
MER. CENT.	51	51	51	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	L	L	L	L	L
TIPO AMOST.	B	B	B	B	B
FCNTE AMOST.	C	C	C	C	C
ROCHA REG.	D	D	D	D	D
ID. GEOLG.	AS	AS	AS	AS	AS
MAT. COLET.	SOLO	SOLO	SOLO	SOLO	SOLO
PLUVIOSIDADE	D	D	D	D	D
TIPO VEGET.	A	A	A	A	A
SIT. TCPCG.	D	D	C	E	E
SIT. AMOST.					
ALTITUDE					
PROF. AMOST.	0,15	0,15	0,10	0,10	0,15
FORMA IGNEA					
SIT. ESTRUT.					
MATRIZ PREC.					
GRAU INTMP.					
TIPO ALTER.					
TIPC MINER.					
DEP. CCCCR.					
LARGURA RIO					
PROFUND. RIO					
VELOC. CORR.					
NIVEL AGLA					
AREA DRENAG.					
TURB. AGLA					
POS. COLETA					
COR AGUA					
GRAU ARREC.					
VCL. CRIGIN.					
PESO CCNC.					
GRANULOMET.					
TEXT. SEDIM.	16 12	16 12	34 12	25 12	25 12
COR SED./SL.	C	C	C	C	C
HORIZ. SCLD	A	A	A	A	A
TIPC SCLD	C	C	C	C	C

SOLOS - BACKGROUND - HOR. A PINHEIRO C. ARVORE

NUM. LAB.	JAD659	JAD660	JAD662	JAD664	JAD667
NUM. CAMPO	CK0470	CK0470A	CK0472	CK0474	CK0477
AMB. BIOTICO					

PARAMETROS ANALITICOS DE CAMPO

EH					
PH					
METAL TOTAL					
CODIF. LIVRE	A0321	A0323	A0331	A0341	A0351

PARAMETROS ANALITICOS

FE-S %	5,000	5,000	3,000	3,000	5,000
MG-S %	0,200	0,200	0,200	0,200	0,300
CA-S %	0,100	0,100	0,100	0,100	0,100
TI-S %	1,000	1,000	1,000	1,000	1,000
MN-S	1000,000	700,000	500,000	1000,000	500,000
AG-S	NAO DET.	NAO DET.	1,000	NAC DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AU-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.
B-S	100,000	70,000	100,000	100,000	70,000
BA-S	500,000	300,000	300,000	700,000	1000,000
BE-S	2,000	2,000	2,000	2,000	2,000
BI-S	-10,000	-10,000	-10,000	-10,000	-10,000
CC-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CO-S	15,000	15,000	10,000	15,000	10,000
CR-S	20,000	30,000	20,000	20,000	20,000
CU-S	20,000	20,000	15,000	15,000	10,000
LA-S	150,000	200,000	70,000	150,000	150,000
MO-S	5,000	7,000	5,000	7,000	7,000
NB-S	70,000	50,000	70,000	100,000	100,000
NI-S	15,000	20,000	15,000	10,000	15,000
PE-S	100,000	100,000	100,000	70,000	100,000
SB-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.
SC-S	20,000	20,000	20,000	15,000	20,000
SN-S	20,000	100,000	100,000	20,000	15,000
SR-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
V-S	100,000	100,000	70,000	50,000	50,000
W-S	-50,000	NAO DET.	-50,000	-50,000	-50,000
Y-S	150,000	100,000	100,000	100,000	150,000
ZN-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.
ZR-S	+1000,000	+1000,000	+1000,000	+1000,000	+1000,000
CU-AA	10,000	10,000	10,000	10,000	5,000
PE-AA	35,000	40,000	50,000	40,000	30,000
ZN-AA	40,000	45,000	65,000	40,000	45,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA					
NI-AA					
BI-AA					
CD-AA					
TE-AA					
AU-AA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.
AS-CCL	10,000	10,000	-10,000	-10,000	-10,000
SB-CCL	1,000	-1,000	-1,000	-1,000	-1,000



SOLOS - BACKGROUND - MOR. A PINHEIRO C. ARVORE

NUM. LAB.	JAC639	JAD642	JAD643	JAC645	JAC647	JAC649	JAC652	JAD653	JAD655	JAC657
NUM. CAMPO	CK0452	CK0455	CKC455A	CK0457	CK0459	CK0461	CK0463	CKC464	CK0466	CK0468
AMB. BIOTICO										

PARAMETROS ANALITICOS DE CAMPO

EH										
PF										
METAL TOTAL										
CODIF. LIVRE	A0241	A0251	AC253	A0261	A0271	A0281	AC251	AC252	AC301	A0311

PARAMETROS ANALITICOS

FE-S %	10,000	5,000	5,000	3,000	3,000	5,000	3,000	2,000	10,000	2,000
MG-S %	0,300	0,200	0,200	0,100	0,200	0,200	0,200	0,200	0,300	0,200
CA-S %	-0,050	0,050	0,050	0,050	0,050	0,100	-0,050	0,050	-0,050	0,100
TI-S %	1,000	1,000	1,000	0,700	1,000	+1,000	1,000	1,000	1,000	0,700
MN-S	200,000	500,000	300,000	1000,000	500,000	1000,000	1000,000	1000,000	200,000	1000,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AS-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
AL-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
B-S	50,000	50,000	50,000	20,000	50,000	100,000	100,000	50,000	20,000	100,000
BA-S	200,000	200,000	200,000	500,000	150,000	500,000	700,000	700,000	150,000	700,000
BE-S	3,000	3,000	2,000	3,000	3,000	1,000	3,000	3,000	5,000	3,000
BI-S	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
CD-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CO-S	15,000	10,000	10,000	10,000	10,000	20,000	20,000	20,000	15,000	10,000
CR-S	20,000	20,000	20,000	15,000	20,000	30,000	10,000	10,000	20,000	10,000
CU-S	-20,000	20,000	20,000	10,000	20,000	20,000	5,000	5,000	20,000	10,000
LA-S	100,000	100,000	100,000	100,000	100,000	100,000	300,000	200,000	300,000	70,000
MO-S	10,000	7,000	7,000	5,000	7,000	7,000	7,000	5,000	10,000	5,000
NE-S	30,000	50,000	50,000	50,000	50,000	50,000	70,000	50,000	50,000	50,000
NI-S	50,000	20,000	20,000	10,000	20,000	20,000	10,000	10,000	15,000	7,000
PB-S	50,000	100,000	70,000	100,000	70,000	50,000	70,000	70,000	150,000	50,000
SE-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SC-S	30,000	20,000	20,000	15,000	20,000	15,000	20,000	15,000	20,000	10,000
SN-S	10,000	15,000	20,000	15,000	15,000	10,000	15,000	15,000	20,000	20,000
SR-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
V-S	100,000	100,000	100,000	50,000	70,000	100,000	50,000	50,000	100,000	30,000
W-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	-50,000	-50,000	-50,000	NAC DET.
Y-S	70,000	70,000	70,000	70,000	70,000	100,000	100,000	100,000	100,000	70,000
ZN-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	-200,000	NAC DET.
ZR-S	1000,000	+1000,000	1000,000	+1000,000	+1000,000	+1000,000	+1000,000	1000,000	700,000	1000,000
CU-AA	-20,000	15,000	15,000	10,000	15,000	15,000	5,000	5,000	15,000	10,000
PB-AA	45,000	55,000	55,000	55,000	45,000	40,000	30,000	25,000	75,000	30,000
ZN-AA	60,000	50,000	55,000	55,000	60,000	45,000	45,000	45,000	90,000	55,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CC-AA										
TE-AA										
AU-AA	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AS-COL	10,000	-10,000	10,000	-10,000	10,000	10,000	-10,000	-10,000	10,000	-10,000
SB-COL	2,000	1,000	1,000	1,000	1,000	1,000	-1,000	1,000	1,000	-1,000

S E A G

PROJETO - LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

SOLOS - BACKGROUND - HCF. A PINHEIRO C. ARVORE

NUM. LAB. NUM. CAMPO	JAD639 CK0452	JAD642 CK0455	JAD643 CK0455A	JAD645 CK0457	JAD647 CK0459	JAD649 CK0461	JAD652 CK0463	JAD653 CK0464	JAD655 CK0466	JAD657 CK0468
CXCC-CCL										
MET PES										
CO-CCL										
MO-CCL										
W-COL	-20,000	-20,000	20,000	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000
P-CCL										
SE-CCL										
U-COL										
TI-COL %										
HG-INS										
F-INS	225,000	200,000	200,000	100,000	170,000	130,000	250,000	300,000	325,000	160,000
S-INS %										
C-INS %										
PH										
AU-P CRG										
AU-P ANL										

SISTEMA DE ESTATISTICA DE AMOSTRAGEM

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FOLHA DE CONTROLE - PROGRAMA PRGCMC07

\*\*\* OPCOES \*\*\*  
0 0 0 0 0 0 0 0 0

ARQUIVO

FS193281

AMOSTRAS LIDAS 15

AMOSTRAS IMPRESSAS 15

N. INICIAL DA PAGINA 1

N. FINAL DA PAGINA 6

N. DE AMOSTRA INICIAL

N. DE AMOSTRAS FINAL



S E A G

PROJETO - LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CLSTO - 1533.300

## SOLOS - BACKGROUND - HCR. A PINHEIRO C. ARVORE

NUM. LAB.	JAC639	JAC642	JAC643	JAC645	JAC647	JAC649	JAC652	JAC653	JAC655	JAC657
NUM. CAMPO	CK0452	CK0455	CKC455A	CK0457	CK0459	CK0461	CK0463	CKC464	CKC466	CK0468
C. CLSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300
PROCEDECIA	AD	AD	AD	AD	AD	AD	AD	AD	AD	AD
BASE CART.	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI
BASE CART.	1	1	1	1	1	1	1	1	1	1
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	331100	330770	330770	331330	331420	329870	329750	329750	329600	329700
UTM - LONG.	066189E0	06618600	06618600	06619400	06619900	06618750	06619270	06619270	06619820	06620350
MER. CENT.	51	51	51	51	51	51	51	51	51	51

## PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMCST.	L	L	L	L	L	L	L	L	L	L
TIPO AMCST.	B	B	B	B	B	B	B	B	B	B
FONTE AMCST.	C	C	C	C	C	C	C	C	C	C
ROCHA REG.	D	D	D	D	D	D	D	D	D	D
ID. GEOLCG.	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
MAT. COLET.	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO
PLUVIOSIDADE	D	D	D	D	D	D	D	D	D	D
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TCPCG.	D	E	E	E	E	E	E	E	D	C
SIT. AMOST.										
ALTITUDE										
PROF. AMOST.	0,10	0,10	0,10	0,10	0,10	0,10	0,15	0,15	0,05	0,15
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PRED.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCCR.										
LARGURA RIO										
PROFUND. RIO										
VELOC. CORR.										
NIVEL AGUA										
AREA DRENAG.										
TURB. AGUA										
POS. COLETA										
COR AGUA										
GRAU ARREC.										
VOL. CRIGIN.										
PESO CCNC.										
GRANULOMET.										
TEXT. SEDIM.	15 22	24 22	24 22	26 11	35 11	25 12	25 12	25 12	14 41	25 12
COR SEC./SL.	C	C	C	C	C	C	C	C	B	C
HORIZ. SCLQ	A	A	A	A	A	A	A	A	A	A
TIPO SCLC	C	C	C	C	C	C	C	C	C	C

S E A G

PROJETO - LEVANTAMENTO GEOQUIMICO DO PDS

CENTRO DE CUSTO - 1533.300

## CONCENTRACAO DE BATEIA PINHEIRO C. ARVORE

NUM. LAB.	JAC872	JAD873	JAC874	JAD875	JAC876	JAC877	JAD878	JAC879	JAD880
NUM. CAMPO	CK0564	CK0566	CK0568	CK0571	CK0573	CK0575	CK0577	CK0579	CK0581
	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
OX.FERRO	< 5%	< 5%	< 5%	20%-5%	< 5%	< 5%	< 5%	60%-20%	20%-5%
P TOT(G)	60,300	39,200	47,600	6,200	70,500	95,800	62,900	8,700	44,300
P ORT(G)	8,300	5,700	4,600	NAO DET.	5,200	4,900	5,000	NAO DET.	6,400
P COC(G)	3,000	2,700	2,200	0,100	3,500	3,300	3,300	0,300	2,400

CONCENTRACOES DE BATEIA FINHEIRO C. ARVORE

NUM. LAB.	JAC872	JAD873	JAD874	JAD875	JAC876	JAC877	JAD878	JAD879	JAC880
NUM. CAMPO	CK0564	CK0566	CK0568	CK0571	CK0573	CK0575	CK0577	CK0579	CK0581
ILMENITA	60%-20%	60%-20%	60%-20%	< 5%	60%-20%	60%-20%	60%-20%	< 5%	< 5%
LIMONITA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.
CASSIT.	NAO DET.	< 5%	< 5%	NAC DET.	< 5%	20%-5%	< 5%	< 5%	< 5%
COL-TAN.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
VOLFRAM.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
SFEEEL.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
OX.-MAN.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
RUTILO	< 5%	< 5%	NAC DET.	NAO DET.	NAO DET.	< 5%	NAO DET.	NAO DET.	NAC DET.
CRONITA	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.
MONAZITA	20%-5%	60%-20%	20%-5%	20%-5%	20%-5%	20%-5%	60%-20%	20%-5%	60%-20%
ZIRCOAO	60%-20%	20%-5%	NAC DET.	20%-5%	< 5%	20%-5%	20%-5%	< 5%	20%-5%
XENOT.	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	NAO DET.	NAO DET.	NAC DET.
ANATASIO	< 5%	NAO DET.	< 5%	NAC DET.	< 5%	< 5%	< 5%	< 5%	< 5%
PIROCL.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
MICROL.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
OUFO	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.
ARS.PIR.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.
PIRITA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.
MARCASS.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
CALCOP.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
GALFNA	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.
ESFARFL.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
CINABRIO	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.
MOLIBC.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.
DIAMANTE	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
TOPAZIO	< 5%	NAO DET.	< 5%	NAC DET.	NAO DET.	< 5%	< 5%	NAO DET.	NAC DET.
GRANADA	< 5%	< 5%	NAC DET.	< 5%	< 5%	NAO DET.	NAO DET.	NAO DET.	NAC DET.
PIROXEN.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
ANFIBOL.	NAO DET.	< 5%	< 5%	< 5%	< 5%	< 5%	NAO DET.	NAO DET.	NAC DET.
MT-CLOR.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
TURMAL.	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	NAO DET.	< 5%
CIANITA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	< 5%	NAC DET.	NAO DET.	< 5%	NAC DET.
ESTAUR.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
ANCALUZ.	NAO DET.	< 5%	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
SILIMAN.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
EPICOTC	NAO DET.	< 5%	NAC DET.	< 5%	NAO DET.	NAO DET.	NAO DET.	< 5%	< 5%
CORINDON	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
TITANITA	< 5%	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.
GAHNITA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.
ESPIAFL.	< 5%	< 5%	< 5%	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.
MIN-EEF.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
MIN-LIT.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
GLAUCCN.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.
FOSFATO	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
OLIVINA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.
LEUCOX.	< 5%	< 5%	NAC DET.	< 5%	NAO DET.	< 5%	< 5%	NAO DET.	NAC DET.
CARBON.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
APATITA	NAO DET.	< 5%	< 5%	NAO DET.	< 5%	NAC DET.	NAO DET.	NAO DET.	NAC DET.
BARITINA	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.
FLUORITA	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
BROCKITA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
MICAS	< 5%	< 5%	20%-5%	20%-5%	< 5%	60%-20%	< 5%	< 5%	< 5%
FRAG.RCH	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.





CONCENTRAÇÕES DE BATEIA PINHEIRO C. ARVCPRE

NUM. LAE. NUM. CAMPO AMB. BIOTICO	JAC872 CK0564	JAC873 CK0566	JAC874 CK0568	JAC875 CK0571	JAC876 CK0573	JAC877 CK0575	JAC878 CK0577	JAC879 CK0579	JAC880 CK0581
PARAMETROS ANALITICOS DE CAMPO									
FH									
PH	6,5	6,5	6,5	6,5		6,5	6,5	6,5	6,5
METAL TOTAL									
CODIF. LIVRE	AB701	AB711	AB721	AB731	AB741	AB751	AB761	AB771	AB781
PARAMETROS ANALITICOS									
FF-S %	10,000	15,000	15,000	1,000	5,000	15,000	15,000	2,000	3,000
MG-S %	0,070	0,100	0,070	0,050	0,100	0,100	0,100	0,100	0,100
CA-S %	-0,050	-0,050	-0,050	-0,050	-0,050	-0,050	-0,050	0,050	0,050
TI-S %	+1,000	+1,000	+1,000	0,500	+1,000	+1,000	+1,000	1,000	+1,000
MN-S	5000,000	+5000,000	+5000,000	100,000	+5000,000	+5000,000	+5000,000	300,000	3000,000
AG-S	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
AS-S	NAD DET.	NAD DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAD DET.	NAC DET.	NAC DET.
AU-S	NAD DET.	NAD DET.	NAC DET.	NAC DET.	NAC DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
B-S	1000,000	500,000	1000,000	50,000	1000,000	100,000	100,000	20,000	200,000
BA-S	200,000	150,000	150,000	150,000	150,000	150,000	150,000	500,000	700,000
BE-S	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
BI-S	NAD DET.	NAD DET.	NAD DET.	NAC DET.	NAC DET.	NAD DET.	NAD DET.	-10,000	NAD DET.
CD-S	NAC DET.	NAD DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAD DET.	NAD DET.	NAD DET.
CO-S	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CR-S	500,000	700,000	20,000	10,000	20,000	50,000	20,000	20,000	50,000
CU-S	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
LA-S	+1000,000	+1000,000	+1000,000	700,000	+1000,000	+1000,000	+1000,000	1000,000	+1000,000
MO-S	7,000	-5,000	-5,000	-5,000	NAD DET.	NAD DET.	5,000	-5,000	7,000
NB-S	200,000	200,000	150,000	20,000	300,000	150,000	300,000	50,000	500,000
NI-S	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000
PB-S	100,000	200,000	200,000	10,000	300,000	300,000	200,000	20,000	300,000
SB-S	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
SC-S	+100,000	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
SN-S	700,000	+1000,000	+1000,000	300,000	+1000,000	+1000,000	+1000,000	1000,000	+1000,000
SR-S	NAD DET.	NAD DET.	NAC DET.	NAC DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
V-S	30,000	50,000	50,000	20,000	50,000	50,000	70,000	30,000	50,000
W-S	-50,000	INTERFER.	INTERFER.	NAD DET.	INTERFER.	INTERFER.	INTERFER.	NAD DET.	NAD DET.
Y-S	+2000,000	+2000,000	+2000,000	70,000	+2000,000	+2000,000	+2000,000	150,000	+2000,000
ZN-S	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
ZR-S	+1000,000	+1000,000	+1000,000	700,000	+1000,000	+1000,000	+1000,000	1000,000	+1000,000
CU-AA									
PR-AA									
ZN-AA									
AG-AA									
CO-AA									
NI-AA									
BI-AA									
CD-AA									
TE-AA									
AU-AA	NAD DET.	NAD DET.	NAD DET.	0,250	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
MAGNET.	< 5%	< 5%	< 5%	20%-5%	< 5%	< 5%	< 5%	< 5%	< 5%
HEMATITA	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAC DET.	NAC DET.	NAD DET.	NAD DET.	NAC DET.



CONCENTRACAO DE BATEIA PINHEIRO C. ARVCFE

NUM. LAB.	JAC862	JAC863	JAC864	JAC865	JAC866	JAC867	JAC868	JAC869	JAC870	JAC871
NUM. CAMPO	CK0542	CK0544	CK0547	CK0549	CK0551	CK0553	CK0556	CK0558	CK0560	CK0562
ILMENITA	20%-5%	20%-5%	60%-20%	60%-20%	> 60%	60%-20%	> 60%	60%-20%	60%-20%	60%-20%
LIMONITA	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CASSIT.	< 5%	< 5%	NAO DET.	< 5%	NAC DET.	NAO DET.	< 5%	< 5%	< 5%	NAC DET.
COL-TAN.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
VOLFRAM.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SFEEEL.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
OX.-MAN.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
RUTILO	< 5%	NAO DET.	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%
CRONITA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
MONAZITA	60%-20%	20%-5%	20%-5%	20%-5%	< 5%	20%-5%	20%-5%	20%-5%	20%-5%	< 5%
ZIRCO	20%-5%	< 5%	60%-20%	60%-20%	20%-5%	60%-20%	60%-20%	60%-20%	60%-20%	60%-20%
XENOT.	20%-5%	20%-5%	< 5%	NAC DET.	< 5%	< 5%	< 5%	NAO DET.	NAC DET.	NAC DET.
ANATASIO	20%-5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%
PIROCL.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
MICROCL.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
OUFO	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
ARS.PIR.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
PIRITA	< 5%	< 5%	NAC DET.	NAO DET.	NAO DET.	< 5%	NAO DET.	NAO DET.	NAC DET.	NAC DET.
MARCASS.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
CALCOP.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
GALENA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
FSFARL.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CINABRIO	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
MOLIBD.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
DIAMANTE	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
TOPAZIO	< 5%	NAO DET.	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%
GRANADA	< 5%	NAO DET.	NAC DET.	NAC DET.	NAC DET.	< 5%	< 5%	NAO DET.	< 5%	NAC DET.
PIROXEN.	NAO DET.	20%-5%	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
ANFIBOL.	NAO DET.	< 5%	NAC DET.	NAC DET.	NAO DET.	NAO DET.	< 5%	NAO DET.	NAC DET.	NAC DET.
MI-CLOR.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
TURMAL.	< 5%	< 5%	< 5%	< 5%	< 5%	20%-5%	< 5%	NAO DET.	NAC DET.	< 5%
CIANITA	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	< 5%
ESTAURO	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
ANCALUZ.	< 5%	60%-20%	< 5%	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SILIMAN.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
EPIDOTE	NAO DET.	NAO DET.	NAC DET.	NAO DET.	< 5%	NAO DET.	NAO DET.	NAO DET.	NAC DET.	< 5%
CORINDON	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
TITANITA	NAO DET.	NAO DET.	NAC DET.	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	NAC DET.
GAHNITA	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
ESPINEL.	NAC DET.	NAO DET.	NAC DET.	< 5%	< 5%	NAO DET.	< 5%	< 5%	< 5%	NAC DET.
MIN-BEF.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
MIN-LIT.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
GLAUCON.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
FOSFATO	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
OLIVINA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
LEUCOX.	< 5%	20%-5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	NAC DET.	< 5%
CARBON.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
APATITA	NAO DET.	< 5%	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
BARITINA	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
FLUORITA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
BROOKITA	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
MICAS	< 5%	20%-5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%
FRAG. RCH	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.



S E A G

PROJETO - LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CLSTO - 1533.300

## CONCENTRADOS DE BATEIA PINHEIRO C. ARVORE

NUM. LAB.	JAD862	JAD863	JAD864	JAD865	JAD866	JAD867	JAD868	JAD869	JAD870	JAD871
NUM. CAMPO	CK0542	CK0544	CK0547	CK0549	CK0551	CK0553	CK0556	CK0558	CK0560	CK0562
OX.FERRO	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
P TOT(G)	20%-5%	20%-5%	< 5%	20%-5%	20%-5%	< 5%	< 5%	< 5%	< 5%	< 5%
P CRT(G)	25,200	14,300	51,700	47,300	67,700	15,000	282,900	36,900	81,000	40,300
P CO(C)	NAO DET.	NAO DET.	3,700	3,900	3,000	NAO DET.	5,500	16,700	6,100	7,000
P CO(C)	5,500	6,400	2,300	2,500	2,200	1,600	4,700	4,200	3,500	1,900



CONCENTRADOS DE BATEIA PINHEIRO C. ARVORE

NUM. LAB. NUM. CAMPO AMB. BIOTICO	JAC862 CK0542	JAD863 CK0544	JAD864 CK0547	JAC865 CK0549	JAC866 CK0551	JAD867 CK0553	JAC868 CK0556	JAD869 CK0558	JAC870 CK0560	JAD871 CK0562
PARAMETROS ANALITICOS DE CAMPO										
EH										
PH	6,5	6,5	6,5	6,5	6,5	6,5		6,5	6,5	6,5
METAL TOTAL CODIF. LIVRE	AB451	AB621	AB611	AB631	AB641	AB651	AB661	AB671	AB681	AB691
PARAMETROS ANALITICOS										
FE-S %	1,500	1,000	5,000	10,000	15,000	1,500	15,000	3,000	10,000	5,000
MG-S %	0,070	0,070	0,070	0,070	0,100	0,050	0,100	0,050	0,070	0,070
CA-S %	-0,050	0,050	-0,050	-0,050	-0,050	-0,050	-0,050	-0,050	-0,050	-0,050
TI-S %	1,000	1,000	+1,000	+1,000	+1,000	1,000	+1,000	+1,000	+1,000	+1,000
MN-S	2000,000	200,000	+5000,000	+5000,000	+5000,000	1000,000	+5000,000	3000,000	+5000,000	5000,000
AG-S	NAD DET.	NAD DET.	NAC DET.	NAC DET.	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAC DET.	NAD DET.
AS-S	NAD DET.	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AU-S	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAD DET.	NAC DET.	NAC DET.
B-S	100,000	20,000	200,000	200,000	200,000	150,000	200,000	500,000	1000,000	50,000
BA-S	70,000	200,000	200,000	200,000	200,000	200,000	150,000	150,000	150,000	200,000
BE-S	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
BI-S	NAC DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAC DET.	NAC DET.
CC-S	NAC DET.	NAD DET.	NAC DET.	NAC DET.	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAC DET.	NAC DET.
CO-S	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CR-S	50,000	30,000	300,000	500,000	500,000	20,000	300,000	200,000	700,000	150,000
CU-S	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	-5,000
LA-S	+1000,000	500,000	+1000,000	+1000,000	+1000,000	1000,000	+1000,000	+1000,000	+1000,000	+1000,000
MO-S	-5,000	-5,000	NAC DET.	-5,000	-5,000	NAC DET.	NAD DET.	5,000	-5,000	-5,000
NE-S	150,000	50,000	200,000	150,000	150,000	100,000	200,000	200,000	200,000	200,000
NI-S	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000
PB-S	200,000	10,000	150,000	150,000	300,000	20,000	300,000	50,000	200,000	70,000
SB-S	NAD DET.	NAD DET.	NAC DET.	NAC DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAC DET.	NAC DET.
SC-S	INTERFER.	INTERFER.	INTERFER.	INTERFER.	+100,000	INTERFER.	+100,000	INTERFER.	INTERFER.	+100,000
SN-S	500,000	30,000	1000,000	+1000,000	+1000,000	150,000	+1000,000	1000,000	+1000,000	1000,000
SP-S	NAC DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAC DET.	NAC DET.
V-S	20,000	50,000	30,000	50,000	50,000	20,000	50,000	30,000	50,000	30,000
W-S	INTERFER.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAC DET.	NAC DET.
Y-S	+2000,000	200,000	+2000,000	+2000,000	+2000,000	700,000	+2000,000	2000,000	+2000,000	1500,000
ZN-S	INTERFER.	-200,000	INTERFER.	INTERFER.	INTERFER.	-200,000	INTERFER.	-200,000	INTERFER.	INTERFER.
ZR-S	+1000,000	1000,000	+1000,000	+1000,000	+1000,000	+1000,000	+1000,000	+1000,000	+1000,000	+1000,000
CU-AA										
PP-AA										
ZN-AA										
AG-AA										
CO-AA										
NI-AA										
BI-AA										
CC-AA										
TE-AA										
AU-AA	NAD DET.	NAD DET.	NAD DET.	NAC DET.	NAC DET.	NAC DET.	NAD DET.	NAD DET.	NAC DET.	NAC DET.
MAGNET.	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%
HEMATITA	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAC DET.	NAC DET.





CONCENTRACOES DE BATEIA PINHEIRO C. ARVORE

NUM. LAB. NUM. CAMPO	JAD852 CK0521	JAD853 CK0523	JAD854 CK0526	JAD855 CK0528	JAD856 CK0530	JAD857 CK0532	JAD858 CK0534	JAD859 CK0536	JAD860 CK0538	JAD861 CK0540
OX.FERRO	< 5%	< 5%	20%-5%	< 5%	< 5%	< 5%	20%-5%	20%-5%	20%-5%	20%-5%
P TOT(G)	34,100	15,200	24,000	38,300	15,500	8,700	4,900	16,800	7,600	20,600
P QRT(G)	8,500	8,300	NAC DET.	3,500	7,300	NAC DET.	NAC DET.	NAC DET.	NAC DET.	4,600
P COC(G)	3,700	2,700	2,900	2,000	2,200	0,800	1,000	0,700	0,400	1,800

S E A G

PROJETO LEVANTAMENTO GEOQUIMICO DO PGS

CENTRO DE CLSTO - 1533.300

## CONCENTRADOS DE ESTEIA PINHEIRO C. ARVORE

NUM. LAB.	JAD852	JAD853	JAD854	JAD855	JAD856	JAD857	JAD858	JAD859	JAD860	JAD861
NUM. CAMPO	CK0521	CK0523	CK0526	CK0528	CK0530	CK0532	CK0534	CK0536	CK0538	CK0540
C. CLSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300
PROCEFCNCIA	AD	AD	AC	AD	AD	AC	AD	AC	AD	AC
BASE CART.	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI
BASE CART.	1	1	1	1	1	1	1	1	1	1
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	09/75	09/75	09/75	09/75	09/75	09/75	09/75	09/75	09/75	09/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	328350	328500	329000	328420	328130	328070	328150	328250	328750	328160
UTM - LONG.	06607100	06607650	06607950	06608330	06607740	06607250	06607200	06606830	06606130	06606100
MER. CENT.	51	51	51	51	51	51	51	51	51	51

## PARÂMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	B	B	B	B	B	B	B	B	B	B
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REC.	D	D	D	D	D	D	D	D	D	D
ID. GEOLG.	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOLOGIA	D	D	D	D	D	D	D	D	D	D
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.	C	C	C	C	C	C	C	C	C	C
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE										
PROF. AMOST.	0,15	0,20	0,20	0,15	0,20	0,20	0,15	0,20	0,15	0,20
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTENS.										
TIPO ALTER.										
TIPO MINER.										
DEF. COCCR.										
LARGURA FIC	4	3	4	5	6	2	6	7	1	6
PROFUND. RIO	0,3	0,3	0,3	0,3	0,4	0,3	0,4	0,5	0,2	0,5
VELOC. CORR.	4	4	3	4	3	3	3	3	3	3
NIVEL AGUA	3	3	3	3	3	3	3	3	3	3
AREA DRENAG.	2	2	2	2	2	1	2	2	1	2
TURB. AGUA	1	1	1	2	2	1	2	2	1	2
POS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	A	A	A	A	A	A	A	A	A	A
GRAU ARREC.	C	C	C	C	C	C	C	C	C	C
VCL. CRIGIN.	8	8	8	8	8	8	8	8	8	8
PESO CONC.	40	18	29	45	19	11	6	21	9	25
GRANULOMET.										
TEXT. SEDIM.	27 1	8 2	9 1	9 1	7 3	9 1	8 2	8 2	8 2	17 2
COR SEC./SL.	I	I	I	I	I	I	I	I	I	I
HORIZ. SCLD										
TIPO SCLD										





CONCENTRACOES DE BATEIA FINHEIRO C. ARVORE

NUM. LAB.	JAC842	JAC843	JAC844	JAC845	JAC846	JAC847	JAC848	JAC849	JAC850	JAC851
NUM. CAMPO	CK0500	CK0502	CK0504	CK0506	CK0508	CK0511	CK0513	CK0515	CK0517	CK0519
ILMENITA	60%-20%	> 60%	> 60%	> 60%	60%-20%	> 60%	20%-5%	60%-20%	60%-20%	60%-20%
LIMONITA	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CASSIT.	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%
COL-TAN.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
VOLFRAM.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SCHEEL.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	< 5%	NAO DET.	< 5%	< 5%	< 5%
PX.-MAN.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
RUTILO	NAC DET.	NAO DET.	NAC DET.	NAC DET.	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%
CROMITA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
MONAZITA	< 5%	< 5%	< 5%	< 5%	< 5%	20%-5%	> 60%	60%-20%	60%-20%	60%-20%
ZIRCON	20%-5%	20%-5%	20%-5%	20%-5%	60%-20%	< 5%	< 5%	20%-5%	< 5%	20%-5%
XENOT.	NAC DET.	NAO DET.	< 5%	NAC DET.	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%
ANATASIO	< 5%	< 5%	< 5%	NAC DET.	20%-5%	< 5%	< 5%	< 5%	< 5%	< 5%
PIROCL.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
MICROCL.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
OURO	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
ARS.PIR.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
PIRITA	NAO DET.	NAO DET.	< 5%	NAC DET.	NAC DET.	< 5%	< 5%	< 5%	< 5%	< 5%
MARCASS.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CALCOP.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
GALENA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
ESFAEL.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CINAERIO	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
MOLIBD.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
DIAMANTE	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
TOPAZIO	NAO DET.	NAO DET.	NAC DET.	NAC DET.	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%
GRANADA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	< 5%	NAC DET.
PIROXEN.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	< 5%	NAC DET.	NAO DET.	NAC DET.	NAC DET.	< 5%
ANFIBOL.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
MI-CLOR.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
TURMAL.	< 5%	< 5%	< 5%	NAC DET.	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%
CIANITA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
ESTAUR.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	< 5%	< 5%	NAC DET.
ANGALUZ.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SILIMAN.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	< 5%	< 5%	NAO DET.	NAO DET.	NAC DET.	NAC DET.
EPIDOTO	NAO DET.	NAO DET.	NAO DET.	NAO DET.	< 5%	< 5%	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CORINCON	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
TITANITA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
GARNITA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
ESPINEL.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%
MIN-BEF.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
MIN-LIT.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
GLAUCCO.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
FOSFATO	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
OLIVINA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
LEUCOX.	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%
CARBON.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
APATITA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
BARITINA	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
FLUORITA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
BROOKITA	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
MICAS	20%-5%	20%-5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	NAC DET.	< 5%
FRAG.RCF	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.

CONCENTRACAO DE BATEIA PINHEIRO C. ARVORE

NUM. LAB.	JAC842	JADE43	JADE44	JAC845	JAC846	JAC847	JAC848	JADE49	JADE50	JAC851
NUM. CAMPO	CK0500	CK0502	CKC504	CK0506	CK0508	CK0511	CK0513	CKC515	CKC517	CK0519
OX.FEFO	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
P TOT(G)	60%-20%	< 5%	20%-5%	20%-5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%
P QRT(G)	19,600	52,200	46,600	23,900	14,000	33,100	44,200	8,900	48,000	38,800
P COC(G)	NAO DET.	5,600	5,400	5,600	7,500	6,400	10,100	NAO DET.	6,900	5,300
	0,200	1,300	1,600	1,500	1,200	2,700	9,000	0,600	3,300	2,900





CONCENTRADOS DE BATEIA PINHEIRO C. ARVCRE

NUM. LAB. NIM. CAMPO AMB. BICTICO	JAD842 CK0500	JAD843 CK0502	JAC844 CK0504	JAC845 CK0506	JAC846 CK0508	JAC847 CK0511	JAC848 CK0513	JAD849 CK0515	JAC850 CK0517	JAC851 CK0519
PARAMETROS ANALITICOS DE CAMPO										
FH										
PH	6,5	6,5	6,5	6,5	6,5	6,5	6,5		6,5	6,5
METAL TOTAL										
COCIF. LIVRE	AB811	AB411	AB421	AB431	AB441	AB481	AB471	AB461	AB491	AB501
PARAMETROS ANALITICOS										
FE-S %	0,700	7,000	10,000	7,000	3,000	15,000	5,000	0,700	10,000	10,000
MG-S %	0,050	0,050	0,050	0,050	0,050	0,050	0,200	0,030	0,070	0,070
CA-S %	0,050	-0,050	-0,050	-0,050	-0,050	-0,050	0,100	-0,050	-0,050	-0,050
TI-S %	1,000	+1,000	+1,000	+1,000	+1,000	+1,000	+1,000	1,000	+1,000	+1,000
MN-S	200,000	+5000,000	+5000,000	+5000,000	5000,000	+5000,000	+5000,000	1000,000	+5000,000	+5000,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AS-S	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AU-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
B-S	70,000	70,000	100,000	70,000	200,000	100,000	20,000	100,000	15,000	70,000
BA-S	500,000	300,000	200,000	300,000	300,000	200,000	50,000	70,000	200,000	300,000
BE-S	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
BI-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CD-S	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CO-S	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CR-S	10,000	10,000	70,000	300,000	100,000	200,000	50,000	10,000	300,000	200,000
CU-S	-5,000	-5,000	-5,000	-5,000	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
LA-S	20,000	500,000	+1000,000	1000,000	1000,000	+1000,000	+1000,000	+1000,000	+1000,000	+1000,000
MO-S	NAO DET.	-5,000	NAO DET.	NAC DET.	-5,000	7,000	NAO DET.	-5,000	-5,000	-5,000
NE-S	20,000	200,000	200,000	150,000	100,000	200,000	150,000	150,000	200,000	200,000
NI-S	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000
PE-S	15,000	20,000	20,000	30,000	50,000	70,000	500,000	30,000	150,000	100,000
SE-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	200,000	NAO DET.	NAC DET.	NAC DET.
SC-S	NAO DET.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	+100,000	INTERFER.	+100,000	+100,000
SN-S	-10,000	200,000	+1000,000	200,000	200,000	+1000,000	+1000,000	700,000	+1000,000	+1000,000
SR-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
V-S	20,000	30,000	30,000	30,000	30,000	50,000	20,000	20,000	30,000	30,000
W-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	INTERFER.	NAC DET.	INTERFER.	INTERFER.	INTERFER.
Y-S	10,000	300,000	1000,000	700,000	700,000	+2000,000	+2000,000	2000,000	+2000,000	+2000,000
ZN-S	-200,000	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
ZR-S	1000,000	+1000,000	+1000,000	+1000,000	+1000,000	+1000,000	+1000,000	+1000,000	+1000,000	+1000,000
CU-AA										
PF-AA										
ZN-AA										
AG-AA										
CO-AA										
NI-AA										
BI-AA										
CE-AA										
TE-AA										
AU-AA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	0,150	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
MAGNET.	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%
HEMATITA	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.





CONCENTRADOS DE BATEIA PINHEIRO, C. ARVORE

NUM. LAB.	JAD674	JAD675	JAD676	JAD677	JAD677A	JAD837	JAD838	JAD839	JAD840	JAD841
NUM. CAMPO	CK0480	CK0482	CK0485	CK0487	CK0487	CK0489	CK0492	CK0494	CK0496	CK0498
FOSFATO						NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
OLIVINA						NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
LEUCOX.						NAO DET.	NAO DET.	< 5%	< 5%	NAO DET.
CARBON.						NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
APATITA						NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
BARITINA						NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
FLUORITA						NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
BROOKITA						NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
MICAS						< 5%	< 5%	< 5%	< 5%	< 5%
FRAG. RCH						NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
OX. FERRO						NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
P TOT(G)						< 5%	< 5%	202-52	602-202	202-52
P CRT(G)						69,600	13,800	15,200	6,500	14,700
P COC(G)						5,700	6,400	5,100	NAO DET.	7,200
						4,700	2,100	1,800	0,100	1,000

CONCENTRADOS DE BATEIA PINHEIRO C. ARVORE

NUM. LAB.	JAC674	JAC675	JAC676	JAC677	JAC677A	JAC837	JAC838	JAC839	JAC840	JAC841
NUM. CAMPO	CK0480	CK0482	CK0485	CK0487	CK0487	CK0489	CK0492	CK0494	CK0496	CK0498
C. CLSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300
PROCELFNCIA	AD	AD	AD	AD	AD	AD	AD	AD	AD	AD
BASE CART.	SH22YAI	SH22YAI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI
BASE CART.	I3	I3	2	2	2	2	1	1	2	2
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	08/75	08/75	08/75	08/75	08/75	09/75	09/75	09/75	09/75	09/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	229400	329300	335070	333870	333870	332730	332200	331630	334080	334210
UTM - LONG.	06626600	06627250	06613700	06614950	06614950	06611220	06611000	06610680	06608810	06609100
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	B	B	B	B	B	B	B	B	B	B
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	D	D	D	D	D	D	D	D	D	D
ID. GEOLG.	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	D	D	C	D	D	C	D	D	D	C
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.	C	C	C	C	C	C	C	C	C	C
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE										
PROF. AMOST.	0,25	0,20	0,15	0,20	0,20	0,15	0,15	0,15	0,20	0,20
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PRED.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. OCCOR.										
LARGURA PIO	8	8	4	3	3	1	2	2	1	1
PERFUND. PIO	0,3	0,4	0,3	0,2	0,2	0,2	0,2	0,2	0,2	0,2
VELOC. CORR.	4	4	3	3	3	2	2	3	3	3
NIVEL AGUA	3	3	3	3	3	2	2	2	2	2
AREA CRENAG.	2	2	1	1	1	1	1	1	1	1
TURB. AGLA	1	1	1	1	1	1	1	1	1	1
POS. COLETA	C		C	C	C	C	C	C	C	C
COR AGUA	A		A	A	A	A	A	A	A	A
GRAU AFREC.	C		C	C	C	C	C	C	C	C
VOL. ORIGIN.	8	8	8	8	8	8	8	8	8	8
PESO CONC.	30	32	45	58	58	80	16	19	9	18
GRANULOMET.										
TEXT. SEDIM.	36 1	36 1	27 1	18 1	18 1	27 1	27 1	26 2	35 2	17 2
COR SEC./SL.	I	I	I	I	I	I	I	I	I	I
HORIZ. SCLC										
TIPO SCLC										





S E A G

PROJET LEVANTAMENTO GEOQUIMICO DO RGS

CFNTRC DE CLSTO - 1533.3CC

CCNCRTRADOS DE BATEIA PINHEIRO C. ARVORE

NUM. LAB. NUM. CAMPO CXCUCCL MET PES CO-CCL MO-CCL W-COL P-CCL SE-CCL U-COL	JAC095A CK0260	JAC096 CK0262	JAC097 CK0265	JAC098 CK0267	JAC099 CK0269	JAC100 CK0271	JAC101 CK0273	JAC102 CK0276	JAC103 CK0278	JAC104 CK0280
MAGNET.		< 5%	< 5%	< 5%	20%-5%	< 5%	< 5%	20%-5%	20%-5%	20%-5%
HEMATITA		NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
ILMENITA		60%-20%	> 60%	> 60%	60%-20%	60%-20%	60%-20%	20%-5%	60%-20%	> 60%
LIMONITA		NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CASSIT.		< 5%	< 5%	< 5%	20%-5%	< 5%	< 5%	< 5%	20%-5%	< 5%
COL-TAN.		NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
VOLFRAM.		NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.
SCHFEEL.		NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
OX.-MAN.		NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
RUTILC		< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	NAC DET.	< 5%
CRCMITA		NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.
MONAZITA		< 5%	< 5%	< 5%	< 5%	60%-20%	20%-5%	< 5%	20%-5%	< 5%
ZIRCON		< 5%	20%-5%	< 5%	< 5%	< 5%	< 5%	< 5%	20%-5%	20%-5%
XENOT.		NAO DET.	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	NAC DET.	NAC DET.
ANATASIO		< 5%	< 5%	< 5%	NAO DET.	< 5%	< 5%	< 5%	< 5%	< 5%
PIROCL.		NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
MICROL.		NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
TURO		NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
ARS-PIR.		NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
PIRITA		NAO DET.	NAO DET.	NAC DET.	< 5%	< 5%	< 5%	< 5%	NAC DET.	NAC DET.
MARCASS.		NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CALCOP.		NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
GALENA		NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
ESFAREL.		NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CINABRIO		NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
MOLIBD.		NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CYAMANTE		NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
TOPAZIC		NAO DET.	NAO DET.	NAC DET.	NAO DET.	< 5%	NAO DET.	NAO DET.	NAC DET.	NAC DET.
GRANADA		NAO DET.	< 5%	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
PIROXEN.		NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
ANFIBCL.		< 5%	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	< 5%	NAC DET.	< 5%
MI-CLOP.		NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
TURMAL.		20%-5%	20%-5%	20%-5%	20%-5%	< 5%	20%-5%	< 5%	< 5%	NAC DET.
CYANITA		NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
ESTAUR.		NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
ANIALUZ.		< 5%	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SILIMAN.		NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
EPIDOTC		NAO DET.	NAC DET.	NAO DET.	NAO DET.	< 5%	NAO DET.	NAO DET.	NAC DET.	< 5%
CORINDON		NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
TITANITA		NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
GAHATA		NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
ESPINEL.		NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
MIN-BER.		NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
MIN-LIT.		NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
GLAUCCA.		NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.

CONCENTRADOS DE BATEIA PINHEIRO C. ARVCFE

NUM. LAB.	JAD095A	JAD096	JAD097	JAD098	JAD099	JAD100	JAD101	JAD102	JAD103	JAD104
NUM. CAMPO	CK0260	CK0262	CK0265	CK0267	CK0269	CK0271	CK0273	CK0276	CK0278	CK0280
FGSFATO		NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
OLIVINA		NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
LEUCOX.		< 5%	< 5%	< 5%	< 5%	NAC DET.	< 5%	NAO DET.	NAC DET.	< 5%
CARBON.		NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
APATITA		NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
BARITINA		NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
FLUORITA		NAO DET.	NAC DET.	NAO DET.	< 5%	< 5%	< 5%	20%-5%	NAC DET.	NAC DET.
BROCKITA		NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
MICAS		< 5%	NAC DET.	NAO DET.	NAO DET.	< 5%	< 5%	< 5%	NAC DET.	< 5%
FRAG. RCH		NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
		NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
OX. FERRO		20%-5%	20%-5%	< 5%	20%-5%	< 5%	20%-5%	60%-20%	< 5%	20%-5%
P TOT(G)		41,300	50,800	26,100	69,200	77,400	21,400	21,900	85,500	11,700
P ORT(G)		15,100	21,100	10,500	5,900	6,500	8,500	8,800	9,800	4,700
P COC(G)		1,700	6,700	0,800	3,600	2,900	1,700	1,500	2,100	0,500

S E A G

PROJET( LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

CONCENTRACCS DE BATEIA PINHEIRO C. ARVCRE

NUM. LAB.	JAD095A	JAD096	JAD097	JAD098	JAD099	JAD100	JAD101	JAD102	JAD103	JAD104
NUM. CAMPO	CK0260	CK0262	CK0265	CK0267	CK0269	CK0271	CK0273	CK0276	CK0278	CK0280
C. CUSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CUSTO	300	300	300	300	300	300	300	300	300	300
PRECISEZANCIA	AD	AD	AD	AD	AD	AC	AD	AC	AD	AC
BASE CART.	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI
BASE CART.	I3	I3	I3	1	2	2	2	1	1	1
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	330150	329850	328530	328300	333700	332950	332280	331930	330900	330670
UTM - LONG.	06626530	06626050	06625650	06623500	06618750	06618150	06617550	06616850	06620900	06623030
MFR. CENT.	51	51	51	51	51	51	51	51	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	B	B	B	B	B	B	B	B	B	B
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REC.	D	D	D	D	D	D	D	D	D	D
ID. GEOLG.	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	A	A	A	A	A	A	A	A	A	A
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.	C	C	C	C	C	C	C	C	C	C
SIT. AMOST.			F	C	C	C	C	C	C	C
ALTITUDE										
PROF. AMOST.	0,20	0,20	0,30	0,20	0,10	0,20	0,15	0,10	0,20	0,20
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTEMP.										
TIPO ALTER.										
TIPC MINER.										
DEF. CCCC.										
LARGURA RIO	1	4	3	2	3	3	3	2	1	4
PROFUND. RIO	0,2	0,2	0,4	0,2	0,2	0,2	0,2	0,2	0,3	0,3
VELOC. CORR.	3	3	3	3	3	3	3	3	3	3
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA DRENAG.	1	2	2	1	1	1	1	1	1	1
TURB. AGUA	1	1	1	1	1	1	1	1	1	1
POS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	A	A	A	A	A	A	A	A	A	A
GRAU AFREC.	C	C	C	C	C	C	C	C	C	C
VOL. CRIGIN.	8	8	8	8	8	8	8	8	8	8
PESO CCNC.	61	52	63	32	81	94	27	28	104	15
GRANULOMET.										
TEXT. SEDIM.	35 2	36 1	45 1	45 1	45 1	36 1	28	18 1	27 1	36 1
COR SED./SL.										
HORIZ. SOLO										
TIPO SOLO										



CONCENTRADOS DE BATEIA PINHEIRO C. ARVCP

NUM. LAB. NUM. CAMPO AMB. BICTICO	JAC095A CK0260	JAC096 CK0262	JAC097 CK0265	JAC098 CK0267	JAC099 CK0269	JAC100 CK0271	JAC101 CK0273	JAC102 CK0276	JAC103 CK0278	JAC104 CK0280
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PARAMETROS ANALITICOS DE CAMPO

EF										
PH	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5
METAL TOTAL										
CODIF. LIVRE	AB191	AB181	AB171	AB161	AB101	ABC91	ABCE1	ABC71	AB221	AB231

PARAMETROS ANALITICOS

FE-S %		3,000	7,000	2,000	20,000	10,000	3,000	5,000	5,000	3,000
MG-S %		0,020	0,020	0,020	0,050	0,050	0,020	0,050	0,020	0,020
CA-S %		-0,050	-0,050	-0,050	0,100	0,050	0,070	0,300	-0,050	-0,050
TI-S %		+1,000	+1,000	1,000	+1,000	+1,000	+1,000	1,000	+1,000	+1,000
MN-S		2000,000	5000,000	1500,000	3000,000	+5000,000	5000,000	+5000,000	5000,000	2000,000
AG-S		NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AS-S		NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
AU-S		NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
B-S		500,000	1000,000	1000,000	50,000	150,000	150,000	50,000	100,000	200,000
BA-S		50,000	30,000	20,000	200,000	200,000	100,000	1500,000	100,000	50,000
BE-S		2,000	1,000	1,500	2,000	2,000	1,000	15,000	2,000	2,000
BI-S		NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	20,000	NAC DET.	NAC DET.
CO-S		NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CO-S		NAO DET.	20,000	NAC DET.	30,000	30,000	20,000	30,000	20,000	NAC DET.
CR-S		-10,000	10,000	-10,000	20,000	10,000	-10,000	10,000	10,000	-10,000
CU-S		5,000	5,000	-5,000	30,000	20,000	10,000	50,000	20,000	-5,000
LA-S		300,000	+1000,000	150,000	+1000,000	+1000,000	+1000,000	700,000	+1000,000	700,000
MO-S		7,000	7,000	NAC DET.	5,000	5,000	5,000	10,000	5,000	5,000
NB-S		100,000	200,000	100,000	200,000	100,000	300,000	70,000	200,000	300,000
NI-S		NAO DET.	NAO DET.	NAC DET.	5,000	NAO DET.	NAO DET.	5,000	NAC DET.	NAC DET.
PB-S		30,000	150,000	20,000	150,000	150,000	30,000	150,000	300,000	50,000
SB-S		NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SC-S		INTERFER.	INTERFER.	20,000	30,000	20,000	INTERFER.	INTERFER.	20,000	INTERFER.
SN-S		+1000,000	+1000,000	1000,000	+1000,000	+1000,000	1000,000	1000,000	+1000,000	+1000,000
SR-S		NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
V-S		20,000	20,000	15,000	50,000	30,000	30,000	70,000	20,000	20,000
W-S		NAO DET.	NAC DET.	NAC DET.	500,000	-50,000	-50,000	-50,000	-50,000	-50,000
Y-S		200,000	500,000	100,000	2000,000	1500,000	300,000	200,000	500,000	200,000
ZN-S		NAO DET.	INTERFER.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
ZR-S		+1000,000	+1000,000	1000,000	1000,000	1000,000	+1000,000	+1000,000	1000,000	+1000,000
CU-AA										
PE-AA										
ZN-AA										
AG-AA										
CO-AA										
NI-AA										
BI-AA										
CC-AA										
TE-AA										
AU-AA		NAO DET.	NAC DET.	NAC DET.	0,200	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AS-CCL										
SB-CCL										

CONCENTRADOS DE BATHIA PINHEIRO C. ARVOPE

NUM. LAB. NUM. CAMPO CXCUCCL MET PES CO-COL MO-CCL W-CCL P-CCL SE-CCL U-CCL	JAC086 CK0241	JAC087 CK0244	JAC088 CK0246	JAC089 CK0248	JAC090 CK0250	JAC091 CK0252	JAC092 CK0254	JAC093 CK0256	JAC094 CK0258	JAC095 CK0260
MAGNET.	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	20%-5%
HEMATITA	NAC DET. 60%-20%	NAO DET. 60%-20%	NAC DET. 60%-20%	NAC DET. > 60%	NAC DET. 60%-20%	NAO DET. > 60%	NAO DET. > 60%	NAO DET. > 60%	NAC DET. 60%-20%	NAC DET. 60%-20%
ILMENITA	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
LIMONITA	< 5%	< 5%	NAC DET.	NAC DET.	NAO DET.	< 5%	NAO DET.	NAO DET.	< 5%	20%-5%
CASSIT.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
COBALT.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
VOLEFRAM.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SCHEFFL.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
OX.-MAN.	< 5%	< 5%	NAC DET.	NAC DET.	< 5%	< 5%	< 5%	NAO DET.	< 5%	<
RUTILC	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CFOMITA	60%-20%	20%-5%	< 5%	20%-5%	< 5%	20%-5%	< 5%	< 5%	20%-5%	20%-5%
MCNAZITA	20%-5%	20%-5%	20%-5%	20%-5%	20%-5%	20%-5%	< 5%	NAO DET.	< 5%	20%-5%
ZIRCO	NAO DET.	NAO DET.	NAC DET.	< 5%	NAC DET.	NAO DET.	NAO DET.	NAO DET.	< 5%	NAC DET.
XENOT.	< 5%	< 5%	< 5%	NAO DET.	< 5%	NAC DET.	NAO DET.	NAO DET.	< 5%	< 5%
ANATASIO	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
PIROCL.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
MICROCL.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
URFO	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
ARS.PIR.	NAC DET.	< 5%	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	< 5%
PIRITA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
MARCASS.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CALCOP.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
GALENA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
ESFAPFL.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CINABRIO	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
MOLIBD.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
DIAMANTE	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
TOPAZIC	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
GRANADA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	< 5%	< 5%	NAO DET.	NAO DET.	NAC DET.	NAC DET.
PIFCXEN.	< 5%	< 5%	NAC DET.	NAC DET.	< 5%	< 5%	NAO DET.	NAO DET.	NAC DET.	< 5%
ANFIBCL.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
MI-CLCF.	20%-5%	20%-5%	20%-5%	< 5%	< 5%	< 5%	< 5%	< 5%	20%-5%	< 5%
TURMAL.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CIANITA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
ESTAUR.	< 5%	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
ANCALUZ.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SILIMAN.	NAO DET.	< 5%	< 5%	NAC DET.	< 5%	NAC DET.	< 5%	NAO DET.	< 5%	NAC DET.
EPIDOTC	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CRINCON	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	< 5%	NAO DET.	NAO DET.	NAC DET.	NAC DET.
TITANITA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
GAHNITA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
ESPINEL.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	< 5%	< 5%	NAO DET.	NAO DET.	NAC DET.	NAC DET.
MIN-BEF.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
MIN-LIT.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
GLAUCON.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.

CONCENTRADOS DE BATEIA PINHEIRO C. ARVCP

NUM. LAB.	JAC086	JAC087	JAC088	JAC089	JAC090	JAC091	JAC092	JAC093	JAC094	JAC095
NUM. CAMPO	CK0241	CK0244	CK0246	CK0248	CK0250	CK0252	CK0254	CK0256	CK0258	CK0260
FOSFATO	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
OLIVINA	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
LEUCOX.	< 5%	< 5%	< 5%	NAC DET.	< 5%	< 5%	< 5%	< 5%	< 5%	20%-5%
CARBON.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
APATITA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
BARITINA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
FLUORITA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	< 5%	NAC DET.	< 5%
BROOKITA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	< 5%	NAO DET.	NAO DET.	NAC DET.	NAC DET.
MICAS	< 5%	< 5%	NAC DET.	NAC DET.	< 5%	< 5%	< 5%	< 5%	NAC DET.	< 5%
FRAG. RCH	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
OX. FERRO	20%-5%	20%-5%	20%-5%	20%-5%	20%-5%	< 5%	< 5%	20%-5%	< 5%	> 60%
P TOT(G)	69,600	35,100	14,100	30,000	16,700	19,300	33,500	41,400	50,600	48,500
P QRT(G)	50,600	26,300	10,200	21,700	6,600	8,700	6,500	7,300	19,200	18,100
P COC(G)	8,000	4,700	1,200	6,400	1,700	3,000	2,300	1,500	5,100	6,000



S E A G

PROJET LEVANTAMENTO GEOQUIMICO DO PGS

CENTRO DE CUSTO - 1533.300

CONCENTRAÇÕES DE BATEIA PINHEIRO C. ARVORE

NUM. LAB.	JAC086	JAC087	JAC088	JAC089	JAC090	JAC091	JAC092	JAC093	JAC094	JAC095
NUM. CAMPO	CK0241	CK0244	CK0246	CK0248	CK0250	CK0252	CK0254	CK0256	CK0258	CK0260
C. CUSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CUSTO	300	300	300	300	300	300	300	300	300	300
PRECEDENCIA	AD	AD	AD	AD	AD	AD	AD	AD	AD	AD
BASE CART.	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI
BASE CART.	2	13	14	2	2	2	2	2	1	13
BASE CART.										
FSCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75
LATITUDE										
LONGITUDE										
ABSCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	335150	331610	332400	334020	333620	333980	334330	334070	328730	330150
UTM - LONG.	06617750	06627950	06626700	06619220	06619320	06619810	06619900	06620600	06620700	06626530
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	B	B	B	B	B	B	B	B	B	B
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REC.	D	D	D	D	D	D	D	D	D	D
ID. GEOLG.	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	A	A	A	A	A	A	A	A	A	A
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.	C	C	C	C	C	C	C	C	C	C
SIT. AMOST.										
ALTITUDE										
PROF. AMOST.	0,15	0,20	0,20	0,20	0,20	0,20	0,20	0,20	0,10	0,20
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTENS.										
TIPO ALTER.										
TIPO MINER.										
DEP. COCCO.										
LARGURA RIO	1	3	3	4	3	6	1	7	2	1
PROFUND. RIO	0,1	0,2	0,2	0,2	0,2	0,2	0,1	0,2	0,2	0,2
VELOC. CORR.	2	3	3	3	3	3	4	4	3	3
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA CRENAG.	1	1	1	1	1	2	1	1	1	1
TURB. AGUA	1	1	1	1	1	1	1	1	1	1
POS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	A	A	A	A	A	A	A	A	A	A
GRAU ARREC.	C	C	C	C	C	C	C	C	C	C
VOL. CRIGIN.	8	8	8	8	8	8	8	8	8	8
PESO COCCO.	88	44	18	39	22	25	43	50	60	61
GRANULOMET.										
TEXT. SEDIM.	26 2	27 1	27 1	18 1	36 1	27 1	26 2	36 1	44 1	35 2
COR SEC./SL.										
HCFIZ. SCLC										
TIPO SCLC										



SISTEMA DE ESTATISTICA DE AMOSTRAGEM

FOLHA DE CONTROLE - PROGRAMA PRGOMCC7

\*\*\* OPCOES \*\*\*

ARQUIVO

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FS193400

AMOSTRAS LICAS 69

AMOSTRAS IMPRESSAS 69

N. INICIAL DA PAGINA 1

N. FINAL DA PAGINA 28

N. DE AMOSTRA INICIAL

N. DE AMOSTRAS FINAL



S E A G

PROJETO - LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CLSTO - 1533.300

## SEDIMENTO DE CORRENTE FINHEIRO CERRO DA ARVORE

NUM. LAB. NUM. CAMFO	JAD833 CK0576	JAD834 CK0578	JAD835 CK0576A	JAD836 CK0580	JAD836A CK0580
CXCU-CCL					
MET FES					
CO-CCL					
MO-CCL					
W-COL	-20,000	-20,000	-20,000	-20,000	-20,000
P-COL					
SE-CCL					
U-CCL					
TI-CCL %					
HG-INS					
F-INS	500,000	500,000	400,000	275,000	200,000
S-INS %					
C-INS %					
PH					
AU-P ORG					
AU-P ANL					

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S E A G

PROJETO LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

## SEDIMENTO DE CORRENTE PINHEIRO CERRO CA ARVOPE

	JAC833	JAC834	JAC835	JAC836	JAC836A
NUM. LAB.	CK0576	CK0578	CK0578A	CK0580	CK0580
NUM. CAMPO	1533	1533	1533	1533	1533
C. CLSTO	300	300	300	300	300
S. CLSTO	AD	AD	AC	AD	AD
PROCECENCIA	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI
BASE CART.	1	1	1	1	1
BASE CART.					
BASE CART.					
ESCALA	0050	0050	0050	0050	0050
DATA	09/75	09/75	09/75	09/75	09/75
LATITUDE					
LONGITUDE					
ABCISSA - X	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000
UTM - LAT.	230600	331050	331050	331500	331500
UTM - LONG.	06615680	06615700	06615700	06615970	06615970
MER. CENT.	51	51	51	51	51

## PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B
FNTE AMOST.	L	L	L	L	L
ROCHA REC.	D	D	D	D	D
ID. GEOLG.	AS	AS	AS	AS	AS
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	A	A	A	A	A
TIPO VEGET.	A	A	A	A	A
SIT. TCPCG.	C	C	C	C	C
SIT. AMOST.	C	C	C	C	C
ALTITUDE					
PROF. AMOST.	0,20	0,10	0,10	0,10	0,10
FORMA IGNEA					
SIT. ESTRUT.					
MATRIZ PREC.					
GRAU INTEMP.					
TIPO ALTER.					
TIPO MINER.					
DEP. CCCCR.					
LARGURA RIO	1	1	1	1	1
PROFUND. RIO	0,3	0,2	0,2	0,2	0,2
VELOC. CORR.	3	3	3	3	3
NIVEL AGUA	2	2	2	2	2
AREA CRENAG.	1	1	1	1	1
TURB. AGUA	1	1	1	1	1
POS. COLETA	C	C	C	C	C
COR AGUA	A	A	A	A	A
GRAU ARRED.	C	C	C	C	C
VOL. CRICIN.					
PESO CCNC.					
GRANULOMET.					
TEXT. SEDIM.	8 2	8 2	8 2	7 3	7 3
COR SEC./SL.	I	I	I	I	I
HORIZ. SOLQ					
TIPO SOLQ					

SEDIMENTOS DE CORRENTE PINHEIRO CERRO DA ARVORE

NUM. LAB.	JAC833	JAC834	JAC835	JAC836	JAC836A
NUM. CAMPO	CK0576	CK0578	CK0578A	CK0580	CK0580
AMB. BIOTICO					

PARAMETROS ANALITICOS DE CAMPO

EH					
PH	6,5	6,5	6,5	6,5	6,5
METAL TOTAL					
COCIF. LIVRE	AS761	AS771	AS773	AS781	AS781

PARAMETROS ANALITICOS

FE-S %	5,000	7,000	7,000	5,000	
MG-S %	0,300	0,700	0,700	0,500	
CA-S %	0,150	0,150	0,150	0,150	
TI-S %	1,000	1,000	1,000	1,000	
MN-S	1000,000	1000,000	1000,000	700,000	
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	
B-S	100,000	50,000	50,000	50,000	
BA-S	700,000	700,000	700,000	700,000	
BE-S	10,000	20,000	20,000	10,000	
BI-S	10,000	-10,000	-10,000	-10,000	
CC-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	
CO-S	10,000	20,000	15,000	15,000	
CR-S	20,000	20,000	20,000	20,000	
CU-S	150,000	50,000	50,000	50,000	
LA-S	+1000,000	200,000	100,000	500,000	
MO-S	10,000	5,000	5,000	5,000	
NB-S	50,000	70,000	70,000	70,000	
NI-S	15,000	15,000	15,000	15,000	
PE-S	70,000	100,000	100,000	70,000	
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	
SC-S	20,000	20,000	20,000	20,000	
SN-S	700,000	50,000	50,000	50,000	
SR-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	
V-S	50,000	50,000	50,000	50,000	
W-S	50,000	-50,000	-50,000	-50,000	
Y-S	200,000	100,000	100,000	200,000	
ZN-S	NAO DET.	200,000	200,000	NAO DET.	
ZR-S	+1000,000	1000,000	+1000,000	+1000,000	
CU-AA	100,000	35,000	35,000	25,000	25,000
PB-AA	40,000	45,000	45,000	40,000	40,000
ZN-AA	70,000	120,000	120,000	90,000	90,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA					
NI-AA					
BI-AA					
CC-AA					
TE-AA					
AU-AA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	
AS-COL	-10,000	-10,000	-10,000	-10,000	-10,000
SB-COL	1,000	-1,000	1,000	1,000	1,000



SEDIMENTO DE CORRENTE PINHEIRO CERRO DA ARVORE

NUM. LAB.	JAC823	JAD824	JAD825	JAC826	JAC827	JAC828	JAC829	JAD830	JAD831	JAC832
NUM. CAMPO	CK0559	CK0559A	CK0561	CK0563	CK0565	CK0567	CK0569	CK0570	CK0572	CK0574
AMB. BIOTICO										
PARAMETROS ANALITICOS DE CAMPO										
EH										
PH	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5
METAL TOTAL										
COEF. LIVRE	AS681	AS683	AS691	AS701	AS711	AS721	AS731	AS732	AS741	AS751
PARAMETROS ANALITICOS										
FE-S %	2,000	3,000	3,000	3,000	2,000	1,500	3,000	5,000	2,000	2,000
MG-S %	0,200	0,300	0,300	0,300	0,100	0,100	0,150	0,200	0,100	0,200
CA-S %	0,150	0,150	0,150	0,150	0,150	0,100	0,150	0,150	0,100	0,150
TI-S %	1,000	0,700	1,000	1,000	0,700	0,700	1,000	1,000	1,000	1,000
MN-S	700,000	700,000	700,000	700,000	300,000	500,000	500,000	500,000	700,000	1000,000
AG-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AS-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AU-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
B-S	200,000	200,000	30,000	30,000	150,000	150,000	150,000	100,000	150,000	100,000
BA-S	1000,000	1000,000	1500,000	1500,000	700,000	700,000	700,000	700,000	500,000	700,000
BE-S	10,000	5,000	3,000	3,000	5,000	20,000	20,000	20,000	10,000	20,000
BI-S	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	10,000
CD-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CO-S	5,000	5,000	10,000	10,000	5,000	5,000	10,000	10,000	5,000	5,000
CR-S	20,000	30,000	30,000	30,000	20,000	10,000	10,000	20,000	10,000	10,000
CU-S	20,000	70,000	50,000	20,000	20,000	15,000	20,000	100,000	20,000	100,000
LA-S	700,000	700,000	500,000	300,000	300,000	500,000	200,000	500,000	+1000,000	+1000,000
MO-S	-5,000	-5,000	-5,000	-5,000	NAO DET.	NAC DET.	7,000	10,000	5,000	5,000
NB-S	50,000	30,000	30,000	30,000	50,000	50,000	50,000	50,000	50,000	50,000
NI-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	10,000	NAC DET.	NAC DET.
PE-S	100,000	100,000	100,000	100,000	70,000	70,000	50,000	50,000	50,000	70,000
SB-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SC-S	20,000	20,000	20,000	15,000	10,000	10,000	15,000	20,000	20,000	10,000
SN-S	200,000	100,000	10,000	50,000	50,000	100,000	50,000	70,000	700,000	500,000
SR-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
V-S	30,000	30,000	30,000	30,000	30,000	30,000	20,000	50,000	30,000	30,000
W-S	-50,000	NAO DET.	NAC DET.	NAC DET.	-50,000	-50,000	-50,000	-50,000	-50,000	-50,000
Y-S	200,000	500,000	200,000	150,000	150,000	150,000	100,000	150,000	300,000	300,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
ZR-S	+1000,000	+1000,000	+1000,000	+1000,000	+1000,000	+1000,000	+1000,000	+1000,000	+1000,000	+1000,000
CU-AA	10,000	10,000	5,000	5,000	15,000	15,000	20,000	40,000	30,000	55,000
PB-AA	20,000	20,000	20,000	20,000	20,000	20,000	20,000	25,000	25,000	30,000
ZN-AA	25,000	25,000	35,000	35,000	20,000	25,000	35,000	40,000	30,000	50,000
AG-AA	NAO DET.	NAO DET.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CC-AA										
TE-AA										
AU-AA	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AS-CCL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	10,000	-10,000	-10,000
SB-CCL	-1,000	1,000	-1,000	1,000	-1,000	-1,000	-1,000	-1,000	-1,000	-1,000

SECIMENTO DE CORRENTE FINHEIRO CERRO DA ARVORE

NUM. LAB. NUM. CAMPO CXCU-CCL MET PES CO-CCL MO-CCL W-COL P-CCL SE-CCL U-COL TI-CCL % HG-INS F-INS S-INS % C-INS % PH AU-p ORG AU-P ANL	JAD823 CK0559	JAD824 CK0559A	JAD825 CK0561	JAD826 CK0563	JAD827 CK0565	JAD828 CK0567	JAD829 CK0569	JAD830 CK0570	JAD831 CK0572	JAD832 CK0574
	20,000	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000	20,000
	250,000	225,000	150,000	120,000	325,000	250,000	450,000	400,000	500,000	600,000





SEDIMENTO DE CORRENTE FINHEIRO CERRO DA ARVORE

NUM. LAB.	JAC823	JAC824	JAC825	JAC826	JAC827	JAC828	JAC829	JAC830	JAC831	JAC832
NUM. CAMPO	CK0559	CK0559A	CK0561	CK0563	CK0565	CK0567	CK0569	CK0570	CK0572	CK0574
C. CLSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300
PROCECENCIA	AD	AD	AC	AD	AD	AC	AD	AD	AD	AC
BASE CART.	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI
BASE CART.	1	1	1	1	1	1	1	1	1	1
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	09/75	09/75	09/75	09/75	09/75	09/75	09/75	09/75	09/75	09/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENACA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	329900	329900	330250	330100	330000	330000	329950	329950	330150	330500
UTM - LONG.	06612200	06612200	06612620	06612780	06613300	06613820	06614500	06614500	06615080	06615450
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REC.	D	D	D	D	D	D	D	D	D	D
ID. GEOLÓG.	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOLOGIA	D	D	D	D	D	D	D	D	D	D
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.	C	C	C	C	C	C	C	C	C	C
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE										
PROF. AMOST.	0,15	0,15	0,10	0,20	0,20	0,15	0,20	0,20	0,10	0,20
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTENS.										
TIPO ALTER.										
TIPO MINER.										
DEP. OCCOR.										
LARGURA RIO	3	3	3	3	3	4	3	3	2	1
PROFUND. RIO	0,2	0,2	0,2	0,4	0,3	0,3	0,3	0,3	0,2	0,2
VELOC. CORR.	3	3	3	3	3	3	3	2	2	3
NIVEL AGUA	3	3	3	3	3	3	3	2	2	2
AREA CRENAG.	2	2	1	1	1	1	1	1	1	1
TURB. AGUA	2	2	1	2	2	2	1	1	1	1
POS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	A	A	A	A	A	A	A	A	A	A
GRAU ARREC.	C	C	C	C	C	C	C	C	C	C
VOL. CRICIN.										
PESO CCNC.										
GRANULOMET.										
TEXT. SEDIM.	8 2	8 2	8 2	17 2	7 3	17 2	8 2	8 2	8 2	8 2
COR SEE./SL.	I		I	I	I	I	I	I	I	I
HORIZ. SCLD										
TIPO SCLD										

S E A G

PROJETO LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

## SEDIMENTO DE CORRENTE PINHEIRO CERRO DA ARVORE

NUM. L.P.	JAC814	JAC815	JAC815A	JAC816	JAC817	JAC818	JAC819	JAC820	JAC821	JAC822
NUM. CAMPO	CK0545	CK0546	CK0546	CK0548	CK0550	CK0550A	CK0552	CK0554	CK0555	CK0557
C. CLSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300
PROCECENCIA	AD	AD	AD	AD	AD	AC	AD	AC	AD	AC
BASE CART.	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI
BASE CART.	1	1	1	1	1	1	1	1	1	1
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	09/75	09/75	09/75	09/75	09/75	09/75	09/75	09/75	09/75	09/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	328350	328350	328350	328930	329050	329050	325220	325380	325380	329720
UTM - LONG.	06608900	06608900	06608900	06609150	06609850	06609850	06610570	06611250	06611250	06611650
MER. CENT.	51	51	51	51	51	51	51	51	51	51

## PARÂMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPC AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REC.	D	D	D	D	D	D	D	D	D	D
ID. GEOLÓG.	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	D	D	D	D	D	D	D	D	D	C
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TÓPOG.	C	C	C	C	C	C	C	C	C	C
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE										
PROF. AMOST.	0,20	0,20	0,20	0,20	0,25	0,25	0,20	0,20	0,20	0,15
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PRED.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. COCCR.										
LARGURA FIO	6	6	6	6	7	7	7	5	5	5
PROFUND. RIO	0,5	0,5	0,5	0,5	0,4	0,4	0,5	0,3	0,3	0,4
VELOC. CORR.	3	3	3	3	3	3	3	3	3	3
NIVEL AGUA	3	3	3	3	3	3	3	3	3	3
AREA CRENAG.	2	2	2	2	2	2	2	2	2	2
TURB. AGUA	2	2	2	2	2	2	2	2	2	2
POS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	A	A	A	A	A	A	A	A	A	A
GRAU ARREC.	C	C	C	C	C	C	C	C	C	C
VOL. ORIGIN.										
PESO CCNC.										
GRANULOMET.										
TEXT. SEDIM.	8 2	8 2	8 2	17 2	26 2	26 2	17 2	17 2	17 2	17 2
COR SEC./SL.	I	I	I	I	I	I	I	I	I	I
HORIZ. SCLQ										
TIPO SCLQ										

SEDIMENTO DE CORRENTE PINHEIRO CERRO DA ARVOPE

NUM. LAB. NUM. CAMPO AMB. BIOTICO	JAC814 CK0545	JAD815 CK0546	JAD815A CK0546	JAC816 CK0548	JAC817 CK0550	JAC818 CK0550A	JAC819 CK0552	JAD820 CK0554	JAC821 CK0555	JAC822 CK0557
PARAMETROS ANALITICOS DE CAMPO										
EH										
PH	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5
METAL TOTAL CODIF. LIVRE	AS611	AS612	AS612	AS631	AS641	AS643	AS651	AS661	AS662	AS671
PARAMETROS ANALITICOS										
FE-S %	2,000	2,000		3,000	2,000	3,000	3,000	3,000	5,000	3,000
MG-S %	0,200	0,100		0,200	0,200	0,200	0,300	0,200	0,150	0,300
CA-S %	0,150	0,100		0,150	0,150	0,150	0,150	0,150	0,100	0,150
TI-S %	0,700	+1,000		+1,000	1,000	+1,000	1,000	+1,000	+1,000	1,000
MN-S	700,000	1000,000		700,000	700,000	1000,000	500,000	1500,000	5000,000	500,000
AG-S	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	100,000	100,000		100,000	100,000	100,000	100,000	150,000	200,000	150,000
BA-S	700,000	700,000		1000,000	1000,000	1000,000	1500,000	1000,000	700,000	1500,000
BE-S	5,000	10,000		10,000	10,000	10,000	7,000	5,000	5,000	3,000
BI-S	-10,000	INTERFER.		INTERFER.	INTERFER.	INTERFER.	-10,000	-10,000	INTERFER.	INTERFER.
CD-S	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	5,000	5,000		10,000	5,000	5,000	10,000	10,000	15,000	10,000
CR-S	10,000	15,000		30,000	20,000	20,000	20,000	50,000	150,000	30,000
CU-S	20,000	20,000		50,000	50,000	20,000	70,000	50,000	50,000	70,000
LA-S	500,000	1000,000		1000,000	1000,000	1000,000	200,000	+1000,000	+1000,000	700,000
MO-S	NAO DET.	5,000		NAO DET.	NAO DET.	NAO DET.	5,000	-5,000	-5,000	5,000
NB-S	50,000	100,000		50,000	50,000	30,000	30,000	50,000	50,000	50,000
NI-S	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAO DET.	10,000	5,000	5,000	10,000
PB-S	70,000	70,000		70,000	100,000	100,000	100,000	100,000	100,000	100,000
SB-S	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	20,000	50,000		30,000	20,000	20,000	20,000	30,000	50,000	30,000
SN-S	150,000	70,000		500,000	500,000	700,000	50,000	700,000	1000,000	70,000
SR-S	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
V-S	30,000	30,000		30,000	30,000	30,000	50,000	30,000	50,000	50,000
W-S	NAO DET.	-50,000		-50,000	-50,000	-50,000	NAO DET.	-50,000	NAO DET.	-50,000
Y-S	300,000	500,000		300,000	300,000	500,000	200,000	700,000	2000,000	200,000
ZN-S	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	INTERFER.	NAO DET.
ZR-S	+1000,000	+1000,000		+1000,000	+1000,000	+1000,000	700,000	+1000,000	+1000,000	+1000,000
CU-AA	10,000	10,000	10,000	10,000	10,000	10,000	15,000	10,000	10,000	15,000
PE-AA	20,000	25,000	25,000	20,000	20,000	20,000	20,000	25,000	40,000	20,000
ZN-AA	25,000	25,000	25,000	20,000	25,000	25,000	35,000	25,000	20,000	30,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	NAO DET.	INTERFER.	INTERFER.	INTERFER.	NAO DET.	NAO DET.	NAO DET.
CO-AA										
NI-AA										
BI-AA										
CD-AA										
TE-AA										
AU-AA	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	0,050	NAO DET.
AS-COL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SB-CCL	-1,000	-1,000	-1,000	-1,000	-1,000	-1,000	-1,000	-1,000	1,000	-1,000



SEDIMENTOS DE CORRENTE PINHEIRO CERRO DA ARVORE

NUM. LAB.	JAD804	JAD805	JAD806	JAD807	JAD808	JAD809	JAD810	JAD811	JAD812	JAD813
NUM. CAMPO	CK0527	CK0529	CK0531	CK0533	CK0533A	CK0535	CK0537	CK0539	CK0541	CK0543
AMB. BIOTICO										

PARAMETROS ANALITICOS DE CAMPO

EH										
PH	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5
METAL TOTAL										
COEF. LIVRE	AS601	AS591	AS581	AS571	AS573	AS551	AS541	AS561	AS451	AS621

PARAMETROS ANALITICOS

FE-S %	2,000	2,000	5,000	2,000	2,000	1,500	2,000	2,000	1,500	3,000
MG-S %	0,150	0,200	0,500	0,200	0,200	0,200	0,200	0,200	0,200	0,500
CA-S %	0,150	0,150	0,150	0,150	0,150	0,150	0,200	0,150	0,200	0,150
TI-S %	+1,000	1,000	1,000	0,500	0,500	0,500	0,300	1,000	0,300	1,000
MN-S	2000,000	500,000	1000,000	500,000	500,000	500,000	500,000	700,000	300,000	700,000
AG-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AS-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.
AL-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
B-S	150,000	50,000	50,000	50,000	70,000	50,000	30,000	70,000	10,000	10,000
BA-S	700,000	1000,000	1000,000	1000,000	1000,000	700,000	200,000	1000,000	200,000	1000,000
BE-S	7,000	10,000	2,000	10,000	7,000	50,000	20,000	5,000	5,000	5,000
BI-S	INTERFER.	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
CC-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CO-S	10,000	10,000	30,000	5,000	5,000	5,000	5,000	10,000	5,000	20,000
CR-S	20,000	30,000	100,000	15,000	15,000	30,000	20,000	30,000	10,000	50,000
CU-S	10,000	15,000	20,000	15,000	20,000	20,000	15,000	50,000	20,000	50,000
LA-S	+1000,000	300,000	50,000	150,000	200,000	200,000	500,000	500,000	500,000	70,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	5,000	5,000	NAC DET.	5,000
NE-S	50,000	30,000	20,000	30,000	30,000	20,000	20,000	50,000	30,000	30,000
NI-S	NAO DET.	5,000	30,000	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	15,000
PE-S	100,000	100,000	20,000	70,000	70,000	70,000	70,000	70,000	70,000	50,000
SB-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SC-S	20,000	20,000	20,000	10,000	10,000	10,000	10,000	20,000	5,000	15,000
SN-S	300,000	20,000	NAC DET.	20,000	50,000	50,000	20,000	20,000	15,000	10,000
SR-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
V-S	30,000	30,000	100,000	30,000	30,000	30,000	30,000	30,000	30,000	50,000
W-S	-50,000	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	-50,000	-50,000	NAC DET.	NAC DET.
Y-S	700,000	150,000	50,000	100,000	100,000	100,000	500,000	200,000	500,000	50,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
ZR-S	+1000,000	1000,000	700,000	+1000,000	+1000,000	+1000,000	500,000	+1000,000	700,000	700,000
CU-AA	5,000	10,000	20,000	10,000	10,000	15,000	10,000	5,000	5,000	10,000
PB-AA	20,000	20,000	20,000	20,000	20,000	15,000	20,000	15,000	15,000	25,000
ZN-AA	20,000	25,000	50,000	30,000	30,000	25,000	20,000	20,000	15,000	50,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CC-AA										
TE-AA										
AU-AA	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AS-CCL	-10,000	-10,000	10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SB-CCL	-1,000	NAO DET.	NAC DET.	-1,000	-1,000	NAC DET.	NAO DET.	NAO DET.	-1,000	-1,000

S E A G

PROJETO - LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.200

## SEDIMENTO DE CORRENTE PINHEIRO CERRO DA ARVORE

NUM. LAB. NUM. CAMPO CXCU-CCL MET PES CO-COL MO-COL W-COL P-CCL SE-CCL U-CCL TI-CCL % HG-INS F-INS S-INS % C-INS % PH AU-P ORG AU-P ANL	JAD804 CK0527	JAD805 CK0529	JAC806 CK0531	JAC807 CK0533	JAC808 CK0533A	JAC809 CK0535	JAC810 CK0537	JAC811 CK0539	JAC812 CK0541	JAC813 CK0543
	-20,000	20,000	-20,000	-20,000	-20,000	-20,000	20,000	-20,000	-20,000	-20,000
	160,000	140,000	90,000	180,000	130,000	130,000	170,000	130,000	180,000	200,000

S E A G

PROJETO - LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

## SEDIMENTO DE CORRENTE PINHEIRO CERRO DA ARVORE

NUM. LAB. NUM. CAMPO CXCU-CCL MET PES CO-CCL MO-CCL W-COL P-COL SE-CCL U-CCL TI-CCL % PG-INS F-INS S-INS % C-INS % PH AU-P ORG AU-P ANL	JAC794 CK0510	JAD795 CK0512	JAD796 CK0514	JAC797 CK0516	JAC798 CK0518	JAC799 CK0520	JAC800 CK0520A	JADEC1 CK0522	JADEC2 CK0524	JAC803 CK0525
	20,000	-20,000	20,000	40,000	40,000	20,000	-20,000	20,000	-20,000	20,000
	140,000	300,000	225,000	170,000	150,000	170,000	180,000	130,000	150,000	140,000



SEDIMENTOS DE CORRENTE FINHEIRO CERRO DA ARVORE

NUM. LAB.	JAC804	JAD805	JADEC6	JAC807	JAC808	JAC809	JAC810	JADE11	JAC812	JAC813
NUM. CAMPO	CK0527	CK0529	CK0531	CK0533	CK0533A	CK0535	CK0537	CK0539	CK0541	CK0543
C. CLSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300
PPOCFCENCIA	AD	AD	AD	AD	AD	AC	AD	AD	AD	AC
BASE CART.	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI
BASE CART.	1	1	1	1	1	1	1	1	1	1
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	09/75	09/75	09/75	09/75	09/75	09/75	09/75	09/75	09/75	09/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	328420	328130	328070	328150	328150	328250	328750	328160	330400	328450
UTM - LONG.	06608330	06607740	06607350	06607200	06607200	06606830	06606130	06606100	06608600	06609250
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	D	D	D	D	D	D	D	D	D	D
ID. GEOL.	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSTIADE	D	D	D	D	D	D	D	D	D	D
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TPCOG.	C	C	C	C	C	C	C	C	C	C
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE										
PROF. AMOST.	0,15	0,20	0,20	0,15	0,15	0,20	0,15	0,20	0,15	0,20
FORMA IGNEA										
SIT. ESTEUT.										
MATRIZ PRED.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. COCCR.										
LARGURA RIO	5	6	2	6	6	7	1	8	1	3
PROFUND. RIO	0,3	0,4	0,3	0,4	0,4	0,5	0,2	0,5	0,2	0,3
VELOC. CORR.	4	3	3	3	3	3	3	3	3	3
NIVEL AGUA	3	3	3	3	3	3	3	3	2	3
AREA CRENAG.	2	2	1	2	2	2	1	2	1	1
TURB. AGUA	2	2	1	2	2	2	1	2	1	1
POS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	A	A	A	A	A	A	A	A	A	A
GRAU ARRED.	C	C	C	C	C	C	C	C	C	C
VOL. ORIGIN.										
PESO CCNC.										
GRANULOMET.										
TEXT. SEDIM.	9 1	7 3	9 1	8 2	8 2	8 2	8 2	8 2	8 2	8 2
COR SEC./SL.	I	I	I	I	I	I	I	I	I	I
HORIZ. SOLQ										
TIPO SOLQ										

SEDIMENTO DE CORRENTE PINHEIRO CERRO DA ARVORE

NUM. LAB.	JAD794	JAD795	JAD796	JAD797	JAD798	JAD799	JAD800	JAD801	JAD802	JAD803
NUM. CAMPO	CK0510	CK0512	CK0514	CK0516	CK0518	CK0520	CK0520A	CK0522	CK0524	CK0525
C. CLSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300
PROCECENCIA	AD	AD	AD	AD	AD	AD	AD	AD	AD	AD
BASE CART.	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI
BASE CART.	1	1	1	1	1	1	1	1	1	1
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	09/75	09/75	09/75	09/75	09/75	09/75	09/75	09/75	09/75	09/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	33C170	33041C	330570	329950	329570	328350	328350	328500	329000	329000
UTM - LONG.	06608750	06608600	06608870	06608250	06607930	06607100	06607100	06607650	06607950	06607950
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARÂMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FRONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	D	D	D	D	D	D	D	D	D	D
ID. GEOLOG.	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	D	D	D	D	D	D	D	D	D	D
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TIPOLOG.	C	C	C	C	C	C	C	C	C	C
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE										
PROF. AMOST.	0,20	0,15	0,20	0,10	0,20	0,15	0,15	0,20	0,20	0,20
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTENS.										
TIPO ALTER.										
TIPO MINER.										
DEP. COCCO.										
LARGURA FIO	4	1	2	4	4	4	4	3	4	4
PROFUND. RIO	0,3	0,2	0,2	0,2	0,3	0,3	0,3	0,3	0,3	0,3
VELOC. CORR.	3	2	3	3	3	4	4	4	3	3
NIVEL AGUA	3	3	3	3	3	3	3	3	3	3
AREA DRENAG.	2	1	1	2	2	2	2	2	2	2
TURB. AGUA	1	1	1	1	1	1	1	1	1	1
POS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	A	A	A	A	A	A	A	A	A	A
GRAU ARREC.	C	C	C	C	C	C	C	C	C	C
VCL. OFICIN.										
PESO COCCO.										
GRANULOMET.										
TEXT. SEDIM.	27 1	17 2	27 1	18 1	9 1	27 1	27 1	6 2	9 1	9 1
COR SEC./SL.	I	I	I	I	I	I	I	I	I	I
HORIZ. SCLQ.										
TIPO SCLC										

SECIMENTO DE COPRENTE PINHEIRO CERRO DA ARVGRE

NUM. LAB.	JAC794	JAD795	JAD796	JAD797	JAC798	JAC799	JAC800	JAD801	JAD802	JAC803
NUM. CAMPO	CK0510	CK0512	CK0514	CK0516	CK0518	CK0520	CK0520A	CK0522	CK0524	CK0525
AMB. BIOTICO										

PARAMETROS ANALITICOS DE CAMPO

EH										
PH	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5
METAL TOTAL										
COCIF. LIVRE	AS482	AS471	AS461	AS491	AS501	AS531	AS532	AS521	AS511	AS512

PARAMETROS ANALITICOS

FE-S %	2,000	3,000	2,000	2,000	2,000	2,000	1,500	1,500	2,000	2,000
MG-S %	0,100	0,300	0,200	0,300	0,200	0,200	0,200	0,100	0,200	0,200
CA-S %	0,150	0,500	0,200	0,200	0,150	0,150	0,150	0,150	0,150	0,150
TI-S %	+1,000	1,000	0,500	0,700	0,700	0,700	0,500	0,700	0,700	0,700
MN-S	1000,000	1000,000	500,000	500,000	1000,000	700,000	700,000	500,000	500,000	500,000
AG-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AS-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AU-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
B-S	20,000	20,000	50,000	20,000	30,000	30,000	20,000	30,000	20,000	20,000
BA-S	1000,000	700,000	300,000	1500,000	700,000	1000,000	1000,000	1000,000	1000,000	1000,000
BE-S	10,000	30,000	20,000	10,000	10,000	20,000	20,000	30,000	20,000	50,000
BI-S	-10,000	INTERFER.	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
CD-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
CO-S	10,000	10,000	5,000	5,000	5,000	10,000	10,000	10,000	10,000	10,000
CR-S	50,000	50,000	15,000	20,000	10,000	20,000	20,000	20,000	15,000	10,000
CU-S	15,000	15,000	10,000	15,000	15,000	20,000	20,000	15,000	20,000	15,000
LA-S	300,000	+1000,000	200,000	100,000	700,000	200,000	200,000	300,000	200,000	200,000
MO-S	5,000	5,000	5,000	5,000	NAC DET.	5,000	5,000	NAC DET.	5,000	5,000
NB-S	50,000	50,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
NI-S	5,000	10,000	10,000	10,000	5,000	5,000	5,000	5,000	5,000	5,000
PE-S	100,000	150,000	70,000	70,000	70,000	100,000	70,000	70,000	70,000	70,000
SB-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
SC-S	10,000	15,000	10,000	10,000	5,000	5,000	5,000	5,000	5,000	5,000
SN-S	30,000	70,000	20,000	30,000	30,000	20,000	15,000	15,000	30,000	15,000
SR-S	NAC DET.	NAC DET.	NAC DET.	100,000	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
V-S	30,000	50,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
W-S	-50,000	-50,000	-50,000	-50,000	-50,000	-50,000	-50,000	-50,000	-50,000	-50,000
Y-S	150,000	1000,000	500,000	100,000	200,000	100,000	150,000	150,000	200,000	100,000
ZN-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
ZR-S	+1000,000	+1000,000	1000,000	1000,000	+1000,000	+1000,000	+1000,000	+1000,000	1000,000	+1000,000
CU-AA	10,000	5,000	5,000	15,000	25,000	30,000	30,000	20,000	25,000	25,000
PE-AA	20,000	25,000	25,000	15,000	15,000	20,000	20,000	15,000	15,000	15,000
ZN-AA	20,000	20,000	20,000	25,000	20,000	25,000	25,000	15,000	20,000	20,000
AG-AA	INTERFER.	NAC DET.	INTERFER.	NAC DET.	NAC DET.	INTERFER.	INTERFER.	NAC DET.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CC-AA										
TE-AA										
AU-AA	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AS-CCL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SE-CCL	-1,000	-1,000	-1,000	-1,000	NAC DET.	-1,000	-1,000	-1,000	-1,000	NAC DET.



SEDIMENTOS DE CORRENTE PINHEIRO CERRO DA ARVORE

NUM. LAB. NUM. CAMPO AMB. BIOTICO	JAC785 CK0495	JAD786 CK0497	JAD787 CK0499	JAC788 CK0501	JAC789 CK0501A	JAC790 CK0503	JAC790A CK0503	JAD791 CK0505	JAC792 CK0507	JAC793 CK0509
PARAMETROS ANALITICOS DE CAMPO										
EH										
PH	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5
METAL TOTAL										
CODIF. LIVRE	AS791	AS801	AS811	AS411	AS413	AS421	AS421	AS431	AS441	AS481
PARAMETROS ANALITICOS										
FE-S %	3,000	2,000	3,000	3,000	2,000	2,000		2,000	2,000	3,000
MG-S %	0,200	0,200	0,300	0,300	0,300	0,200		0,200	0,200	0,150
CA-S %	0,200	0,150	0,150	0,200	0,200	0,150		0,200	0,200	0,150
TI-S %	0,500	1,000	0,700	+1,000	+1,000	+1,000		1,000	0,700	+1,000
MN-S	1000,000	700,000	500,000	1000,000	1000,000	1000,000		700,000	500,000	1000,000
AG-S	NAD DET.	NAD DET.	NAC DET.	NAC DET.	NAD DET.	NAD DET.		NAD DET.	NAC DET.	NAC DET.
AS-S	NAD DET.	NAD DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.		NAC DET.	NAC DET.	NAC DET.
AL-S	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAC DET.	NAD DET.		NAD DET.	NAC DET.	NAD DET.
B-S	30,000	50,000	20,000	50,000	70,000	50,000		30,000	20,000	30,000
BA-S	1000,000	1500,000	1500,000	1500,000	1500,000	1000,000		1000,000	1000,000	1000,000
BE-S	5,000	3,000	3,000	5,000	5,000	5,000		5,000	5,000	3,000
BI-S	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000		-10,000	-10,000	-10,000
CD-S	NAD DET.	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.		NAD DET.	NAC DET.	NAC DET.
CO-S	15,000	10,000	10,000	10,000	10,000	10,000		10,000	5,000	10,000
CR-S	15,000	15,000	50,000	10,000	10,000	20,000		10,000	15,000	20,000
CU-S	5,000	-5,000	-5,000	5,000	5,000	-5,000		-5,000	-5,000	15,000
LA-S	100,000	100,000	100,000	100,000	100,000	200,000		100,000	70,000	500,000
MO-S	NAD DET.	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAC DET.		NAD DET.	NAC DET.	5,000
NB-S	30,000	30,000	50,000	50,000	30,000	50,000		30,000	30,000	100,000
NI-S	15,000	5,000	10,000	5,000	5,000	5,000		5,000	5,000	5,000
PB-S	70,000	50,000	100,000	50,000	50,000	70,000		50,000	50,000	70,000
SB-S	NAD DET.	NAD DET.	NAC DET.	NAC DET.	NAC DET.	NAD DET.		NAD DET.	NAC DET.	NAC DET.
SC-S	10,000	10,000	10,000	15,000	10,000	15,000		5,000	5,000	15,000
SN-S	10,000	10,000	10,000	10,000	10,000	20,000		10,000	10,000	50,000
SR-S	100,000	100,000	100,000	100,000	100,000	100,000		100,000	100,000	100,000
V-S	50,000	30,000	30,000	30,000	30,000	30,000		30,000	30,000	30,000
W-S	NAD DET.	NAD DET.	NAC DET.	NAC DET.	NAD DET.	NAC DET.		NAD DET.	NAC DET.	-50,000
Y-S	100,000	70,000	70,000	150,000	100,000	150,000		70,000	150,000	200,000
ZN-S	NAD DET.	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAC DET.		NAD DET.	NAC DET.	NAC DET.
ZR-S	+1000,000	+1000,000	+1000,000	+1000,000	+1000,000	+1000,000		+1000,000	+1000,000	+1000,000
CU-AA	5,000	-5,000	5,000	5,000	5,000	5,000		5,000	5,000	10,000
PE-AA	15,000	15,000	10,000	15,000	15,000	15,000		15,000	10,000	20,000
ZN-AA	40,000	25,000	30,000	30,000	35,000	25,000		25,000	25,000	20,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.		INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CD-AA										
TE-AA										
AU-AA	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAD DET.		NAD DET.	NAC DET.	NAC DET.
AS-COL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000		-10,000	-10,000	-10,000
SB-COL	NAD DET.	-1,000	-1,000	NAC DET.	NAD DET.	NAC DET.		-1,000	-1,000	-1,000



S E A G

PROJETO - LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

## SEDIMENTO DE COPRENTE FINHEIRO CERRO DA ARVORE

NUM. LAB. NUM. CAMPO CXCU-CCL MET PES CO-CCL MO-CCL W-COL P-COL SE-CCL U-CCL TI-CCL 3 HG-INS F-INS S-INS 3 C-INS 3 PH AU-P ORG AU-P ANL	JAC669 CK0479	JAD670 CK0481	JAC671 CK0483	JAC672 CK0484	JAC673 CK0486	JAC673A CK0486	JAD781 CK0488	JAD782 CK0490	JAC783 CK0491	JAC784 CK0493
	NAO DET.	20,000	NAO DET.	NAO DET.	20,000	20,000	-20,000	-20,000	20,000	-20,000
	160,000	130,000	250,000	225,000	450,000	400,000	275,000	180,000	200,000	150,000



S E A G

PROJETO - LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

SEDIMENTO DE CORRENTE PINHEIRO CERRO DA ARVORE

NUM. LAB.	JAD785	JAD786	JAD787	JAD788	JAD789	JAD790	JAD790A	JAD791	JAD792	JAD793
NUM. CAMPO	CK0495	CK0497	CK0499	CK0501	CK0501A	CK0503	CK0503	CK0505	CK0507	CK0509
C. CLSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300
PROCEDECENCIA	AD	AD	AD	AD	AD	AC	AD	AD	AD	AC
BASE CART.	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI
BASE CART.	2	2	2	1	1	1	1	1	1	1
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	09/75	09/75	09/75	09/75	09/75	09/75	09/75	09/75	09/75	09/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENACA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	334080	334210	334480	331180	331180	330820	330830	330500	330550	330170
UTM - LONG.	06608810	06609100	06608800	06610320	06610320	06609530	06609530	06609520	06609150	06608750
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REC.	D	D	D	D	D	D	D	D	D	D
ID. GEOLOG.	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	D	D	D	D	D	D	D	D	D	D
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TCPCG.	C	C	C	C	C	C	C	C	C	C
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE										
PROF. AMOST.	0,20	0,20	0,20	0,10	0,10	0,20	0,20	0,20	0,20	0,20
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTENP.										
TIPO ALTER.										
TIPO MINER.										
DEP. QUCCO.										
LARGURA RIO	1	1	2	3	3	3	3	3	3	4
PROFUND. RIO	0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,3	0,3
VELOC. CORR.	3	3	3	3	3	3	3	3	3	3
NIVEL AGUA	2	2	2	3	3	3	3	3	3	3
AREA DRENAG.	1	1	1	1	1	1	1	1	1	1
TURB. AGUA	1	1	1	1	1	1	1	1	1	1
POS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	A	A	A	A	A	A	A	A	A	A
GRAU ARRED.	C	C	C	C	C	C	C	C	C	C
VOL. ORIGIN.										
PESO CONC.										
GRANULOMET.										
TEXT. SEDIM.	35 2	17 2	17 2	17 2	17 2	27 1	27 1	18 1	18 1	27 1
COR SEC./SL.	I	I	I	I	I	I	I	I	I	I
HORIZ. SOLQ										
TIPO SCLD										

SEDIMENTO DE CORRENTE FINHEIRO CERRO DA ARVORE

NUM. LAB.	JAC669	JAD670	JAC671	JAD672	JAC673	JAC673A	JAD7E1	JAD7E2	JAC7E3	JAC784
NUM. CAMPO	CK0479	CK0481	CK0483	CK0484	CK0486	CK0486	CK0488	CKC490	CKC491	CK0493
C. CLSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300
PROCECENCIA	AD	AD	AD	AD	AD	AC	AD	AD	AD	AC
BASE CART.	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI
BASE CART.	13	13	2	2	2	2	2	1	1	1
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	CC50	0050	0050
DATA	08/75	08/75	08/75	08/75	08/75	08/75	05/75	05/75	05/75	09/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	CC00	CC00	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	CC00	CC00	0000
UTM - LAT.	329400	329300	335070	335070	333870	333870	332730	332200	332200	331630
UTM - LONG.	06626600	06627250	06613700	06613700	06614950	06614950	06611220	06611000	06611000	06610680
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARÂMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	D	D	D	D	D	D	D	D	D	D
ID. GEOLÓG.	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	D	D	D	D	D	D	D	D	D	D
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.	C	C	C	C	C	C	C	C	C	C
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE										
PROF. AMOST.	0,20	0,10	0,15	0,15	0,20	0,20	0,15	0,15	0,15	0,15
FORMA IGNEA										
SIT. EST.UT.										
MATRIZ PRED.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. OCCOR.										
LARGURA RIO	8	8	4	4	3	3	1	2	2	2
PROFUND. RIO	0,3	0,4	0,3	0,3	0,2	0,2	0,2	0,2	0,2	0,2
VELOC. CORR.	4	4	3	3	3	3	2	2	2	3
NIVEL AGUA	3	3	3	3	3	3	2	2	2	2
AREA ERENAG.	2	2	1	1	1	1	1	1	1	1
TURB. AGUA	1	1	1	1	1	1	1	1	1	1
POS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	A	A	A	A	A	A	A	A	A	A
GRAU ARRED.	C	C	C	C	C	C	C	C	C	C
VOL. CRICIN.										
PESO CONC.										
GRANULOMET.										
TEXT. SEDIM.	36 1	8 2	27 1	27 1	18 1	18 1	18 1	27 1	27 1	26 2
COR SEC./SL.	I	I	I	I	I	I	I	I	I	I
HORIZ. SCLC										
TIPO SCLC										

SEDIMENTO DE CORRENTE PINHEIRO CERRO DA ARVCRE

NUM. LAB. NUM. CAMPO AMB. BIOTICO	JAC669 CK0479	JAD67C CK0481	JAD671 CK0483	JAD672 CK0484	JAC673 CK0486	JAC673A CK0486	JAD7E1 CK0488	JAD7E2 CK0490	JAD7E3 CK0491	JAC784 CK0493
PARAMETROS ANALITICOS DE CAMPO										
EH										
PH	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5
METAL TOTAL CODIF. LIVRE	AS361	AS371	AS031	AS032	AS041	AS041	AS381	AS391	AS392	AS401
PARAMETROS ANALITICOS										
FE-S %	2,000	2,000	1,500	2,000	3,000		5,000	5,000	3,000	2,000
MG-S %	0,100	0,100	0,100	0,100	0,200		0,500	0,300	0,300	0,200
CA-S %	0,150	0,100	0,150	0,150	0,150		0,200	0,150	0,150	0,150
TI-S %	1,000	1,000	0,500	0,500	0,500		+1,000	+1,000	+1,000	1,000
MN-S	500,000	700,000	500,000	300,000	500,000		1000,000	1000,000	1000,000	1000,000
AG-S	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.		NAO DET.	NAO DET.	NAC DET.	NAC DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.		NAO DET.	NAO DET.	NAC DET.	NAC DET.
AU-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.		NAO DET.	NAO DET.	NAC DET.	NAC DET.
B-S	150,000	200,000	20,000	20,000	20,000		50,000	50,000	20,000	20,000
BA-S	300,000	300,000	500,000	300,000	300,000		1500,000	1500,000	1000,000	1000,000
BE-S	7,000	5,000	7,000	5,000	7,000		10,000	3,000	5,000	10,000
BI-S	-10,000	NAO DET.	NAC DET.	NAC DET.	-10,000		-10,000	-10,000	-10,000	-10,000
CC-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.		NAO DET.	NAO DET.	NAC DET.	NAC DET.
CD-S	NAO DET.	NAO DET.	5,000	5,000	5,000		20,000	20,000	15,000	5,000
CR-S	30,000	10,000	10,000	20,000	20,000		10,000	10,000	10,000	10,000
CU-S	-5,000	-5,000	-5,000	-5,000	5,000		15,000	15,000	15,000	5,000
LA-S	100,000	100,000	700,000	200,000	100,000		300,000	200,000	200,000	70,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.		5,000	5,000	NAO DET.	NAC DET.
NB-S	100,000	50,000	30,000	30,000	30,000		50,000	100,000	100,000	50,000
NI-S	15,000	NAO DET.	5,000	5,000	7,000		10,000	10,000	10,000	5,000
PE-S	20,000	50,000	50,000	70,000	70,000		50,000	70,000	70,000	70,000
SB-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.		NAO DET.	NAO DET.	NAC DET.	NAC DET.
SC-S	10,000	10,000	5,000	5,000	5,000		20,000	20,000	20,000	10,000
SN-S	15,000	20,000	NAO DET.	NAC DET.	10,000		20,000	20,000	30,000	20,000
SR-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.		100,000	100,000	100,000	100,000
V-S	30,000	20,000	30,000	30,000	30,000		50,000	50,000	50,000	30,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.		-50,000	-50,000	-50,000	NAC DET.
Y-S	50,000	100,000	200,000	150,000	100,000		150,000	150,000	150,000	70,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.		-200,000	NAO DET.	NAC DET.	NAC DET.
ZR-S	+1000,000	+1000,000	1000,000	+1000,000	+1000,000		+1000,000	+1000,000	+1000,000	+1000,000
CU-AA	5,000	-5,000	5,000	5,000	5,000	5,000	10,000	10,000	10,000	5,000
PE-AA	25,000	25,000	20,000	20,000	20,000	20,000	25,000	20,000	20,000	15,000
ZN-AA	35,000	25,000	20,000	20,000	35,000	35,000	80,000	50,000	50,000	35,000
AG-AA	NAO DET.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CC-AA										
TE-AA										
AU-AA	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.		NAO DET.	NAO DET.	NAC DET.	NAC DET.
AS-COL	-10,000	-10,000	-10,000	-10,000	10,000	10,000	-10,000	-10,000	-10,000	-10,000
SB-COL	NAO DET.	-1,000	-1,000	-1,000	-1,000	-1,000	NAO DET.	-1,000	NAC DET.	-1,000



SEDIMENTOS DE COPRENTE PINHEIRO CERRO DA ARVORE

NUM. LAB. NUM. CAMPO AMB. BIOTICO	JAC027 CK0266	JADC28 CK0268	JADC29 CK0268A	JAD030 CK0270	JAC031 CK0272	JAC032 CK0274	JAC033 CK0275	JADC34 CK0277	JADC35 CK0279	JAC035A CK0279
PARAMETROS ANALITICOS DE CAMPO										
EH										
PH	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5
METAL TOTAL CODIF. LIVRE	AS161	AS101	AS103	AS091	AS081	AS071	AS072	AS221	AS231	AS231
PARAMETROS ANALITICOS										
FE-S %	2,000	2,000	1,500	2,000	0,700	0,700	1,000	2,000	1,500	
MG-S %	0,070	0,150	0,150	0,150	0,070	0,050	0,150	0,030	0,050	
CA-S %	0,070	0,100	0,100	0,100	0,070	0,070	0,100	0,050	0,070	
TI-S %	0,500	0,700	0,700	0,700	0,700	0,500	0,500	+1,000	1,000	
MN-S	700,000	700,000	700,000	700,000	700,000	300,000	500,000	2000,000	1500,000	
AG-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	
AS-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	
AU-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	
B-S	150,000	50,000	50,000	50,000	70,000	30,000	20,000	70,000	50,000	
BA-S	300,000	500,000	500,000	500,000	300,000	300,000	500,000	200,000	300,000	
BE-S	5,000	7,000	7,000	3,000	5,000	3,000	2,000	3,000	5,000	
BI-S	NAO DET.	NAO DET.	-10,000	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	
CD-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	
CO-S	5,000	7,000	5,000	7,000	5,000	5,000	7,000	10,000	7,000	
CR-S	-10,000	15,000	10,000	15,000	-10,000	-10,000	15,000	-10,000	-10,000	
CU-S	-5,000	7,000	7,000	5,000	-5,000	-5,000	7,000	-5,000	-5,000	
LA-S	150,000	150,000	70,000	150,000	100,000	50,000	50,000	500,000	150,000	
MO-S	-5,000	-5,000	-5,000	-5,000	NAO DET.	NAC DET.	NAO DET.	-5,000	-5,000	
NB-S	30,000	30,000	15,000	20,000	30,000	20,000	15,000	150,000	50,000	
NI-S	5,000	5,000	5,000	5,000	-5,000	-5,000	5,000	7,000	-5,000	
PE-S	100,000	70,000	70,000	30,000	30,000	30,000	70,000	50,000	100,000	
SB-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	
SC-S	7,000	7,000	7,000	INTERFER.	INTERFER.	-5,000	7,000	INTERFER.	INTERFER.	
SN-S	30,000	70,000	200,000	70,000	15,000	20,000	20,000	200,000	30,000	
SR-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	
V-S	20,000	30,000	30,000	30,000	20,000	15,000	20,000	20,000	20,000	
W-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	
Y-S	70,000	70,000	70,000	70,000	70,000	50,000	50,000	100,000	70,000	
ZN-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	-200,000	NAC DET.	
ZR-S	700,000	1000,000	700,000	+1000,000	+1000,000	1000,000	500,000	+1000,000	+1000,000	
CU-AA	5,000	10,000	5,000	5,000	5,000	5,000	10,000	5,000	5,000	5,000
PE-AA	40,000	20,000	20,000	15,000	20,000	15,000	15,000	45,000	40,000	40,000
ZN-AA	55,000	40,000	35,000	35,000	30,000	25,000	20,000	40,000	50,000	50,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	
CO-AA										
NI-AA										
BI-AA										
CC-AA										
TE-AA										
AU-AA	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	
AS-COL	10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SB-COL	NAO DET.	-1,000	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	-1,000	-1,000	-1,000

SEDIMENTOS DE CORRENTE FINHEIRO CERRO DA ARVORE

NUM. LAB. NUM. CAMPO CXCUCCL MET PES CO-COL MO-COL W-COL P-COL SE-CCL U-CCL TI-CCL % HG-INS F-INS S-INS % C-INS % PH AU-P ORG AU-P ANL	JAD027 CK0266	JAD028 CK0268	JAD029 CK0268A	JAD030 CK0270	JAD031 CK0272	JAD032 CK0274	JAD033 CK0275	JAD034 CK0277	JAD035 CK0279	JAD035A CK0279
	20,000	40,000	40,000	-20,000	-20,000	-20,000	-20,000	40,000	20,000	20,000
	180,000	375,000	375,000	300,000	375,000	450,000	450,000	150,000	190,000	190,000

S E A G

PROJETO - LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

## SEDIMENTO DE CORRENTE FINHEIRO CERRO DA ARVORE

NUM. LAB. NUM. CAMPO CXCUCCL MET PES CO-CCL MO-CCL W-COL P-COL SE-CCL U-COL TI-CCL 2 HG-INS F-INS S-INS 3 C-INS 3 PH AU-P ORG AU-P ANL	JAC017A CK0249	JAC018 CK0251	JAC019 CK0253	JAC020 CK0255	JAC021 CK0257	JAC022 CK0257A	JAC023 CK0259	JAC024 CK0261	JAC025 CK0263	JAC026 CK0264
	20,000	20,000	40,000	40,000	20,000	40,000	40,000	40,000	20,000	20,000
	200,000	190,000	170,000	160,000	190,000	260,000	450,000	180,000	200,000	170,000



SEDIMENTO DE CORRENTE PINHEIRO CERRO DA ARVORE

NUM. LAB.	JAC027	JAC028	JAC029	JAC030	JAC031	JAC032	JAC033	JAC034	JAC035	JAC035A
NUM. CAMPO	CK0266	CK0268	CK0268A	CK0270	CK0272	CK0274	CK0275	CK0277	CK0279	CK0279
C. CLSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300
PROCECENCIA	AD	AD	AD	AD	AD	AC	AD	AC	AC	AC
BASE CART.	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI
BASE CART.	1	2	2	2	2	1	1	1	1	1
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	328300	333700	333700	332950	332280	331930	331930	330500	330670	330670
UTM - LONG.	06623500	06618750	06618750	06618150	06617550	06616850	06616850	06620900	06623030	06623030
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REC.	D	D	D	D	D	D	D	D	D	D
ID. GEOLG.	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	A	A	A	A	A	A	A	A	A	A
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.	C	C	C	C	C	C	C	C	C	C
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE										
PROF. AMOST.	0,20	0,10	0,10	0,20	0,15	0,10	0,10	0,20	0,20	0,20
FORMA IGNEA										
SIT. EST. NAT.										
MATRIZ PREC.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. COCOR.										
LARGURA RIO	2	3	3	3	3	2	2	1	4	4
PROFUND. RIO	0,2	0,2	0,2	0,2	0,3	0,2	0,2	0,3	0,3	0,3
VELOC. CORR.	3	3	3	3	3	3	3	3	3	3
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA CFENAG.	1	1	1	1	1	1	1	1	1	1
TURB. AGUA	1	1	1	1	1	1	1	1	1	1
PCS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	A	A	A	A	A	A	A	A	A	A
GRAU ARRED.	C	C	C	C	C	C	C	C	C	C
VOL. ORIGIN.										
PESO CCNC.										
GRANULOMET.										
TEXT. SEDIM.	27 1	45 1	45 1	27 1	28	18 1	18 1	27 1	36 1	36 1
COR SEC./SL.										
HORIZ. SCLQ										
TIPO SCLQ										

SEDIMENTOS DE CORRENTE PINHEIRO CERRO DA ARVORE

NUM. LAB.	JAC017A	JAC018	JAC019	JAC020	JAC021	JAC022	JAC023	JAC024	JAC025	JAC026
NUM. CAMPO	CK0249	CK0251	CK0253	CK0255	CK0257	CK0257A	CK0259	CK0261	CK0263	CK0264
C. CLSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300
PROCECENCIA	AD	AD	AD	AD	AD	AC	AD	AD	AD	AC
BASE CART.	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI
BASE CART.	2	2	2	2	1	1	13	13	13	13
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	333620	333580	334330	334070	328730	328730	320150	325650	328530	328530
UTM - LONG.	06619320	06619810	06619900	06620600	06620760	06620760	06626530	06626050	06625650	06625650
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REC.	D	D	D	D	D	D	D	D	D	D
ID. GEOLG.	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	A	A	A	A	A	A	A	A	A	A
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TCPCG.	C	C	C	C	C	C	C	C	C	C
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE										
PROF. AMOST.	0,20	0,20	0,20	0,20	0,10	0,10	0,10	0,20	0,30	0,30
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PFEC.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCC.										
LARGURA RIO	3	6	1	7	2	2	1	4	3	3
PROFUN. RIO	0,2	0,2	0,1	0,2	0,2	0,2	0,2	0,2	0,4	0,4
VELOC. CORR.	3	3	4	4	3	3	3	3	3	3
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA DRENAG.	1	2	1	2	1	1	1	2	2	2
TURB. AGUA	1	1	1	1	1	1	1	1	1	1
PCS. COLETA	C	C	C	C	C	C	C	C	D	C
COR AGUA	A	A	A	A	A	A	A	A	A	A
GRAU APRED.	C	C	C	C	C	C	C	C	C	C
VOL. ORIGIN.										
PESO CONC.										
GRANULOMET.										
TEXT. SEDIM.	8 2	27 1	26 2	36 1	27 1	27 1	17 2	36 1	27 1	27 1
COR SED./SL.										
HORIZ. SCLR										
TIPO SCLR										

SEDIMENTO DE CORRENTE PINHEIRO CERRO DA ARVCPRE

NUM. LAB. NUM. CAMPO AMB. BIOTICO	JADC17A CK0249	JADC18 CK0251	JADC15 CK0253	JAC020 CK0255	JAC021 CK0257	JAC022 CK0257A	JAC023 CK0259	JADC24 CK0261	JADC25 CK0263	JAC026 CK0264
PARAMETROS ANALITICOS DE CAMPO										
EH										
PH	6,0	6,5	6,5	6,0	6,5	6,5	6,5	6,5	6,5	6,5
MFTAL TOTAL										
COCIF. LIVRE	AS111	AS121	AS131	AS141	AS151	AS153	AS151	AS181	AS171	AS172
PARAMETROS ANALITICOS										
FE-S %		1,500	1,500	2,000	2,000	2,000	2,000	2,000	2,000	2,000
MG-S %		0,150	0,030	0,150	0,100	0,100	0,070	0,050	0,050	0,070
CA-S %		0,100	0,100	0,150	0,070	0,070	0,070	0,070	0,070	0,070
TI-S %		0,700	1,000	1,000	0,700	0,700	0,700	0,700	1,000	0,700
MN-S		500,000	1000,000	700,000	700,000	700,000	500,000	700,000	1000,000	700,000
AG-S		NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.
AS-S		NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
AU-S		NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
B-S		50,000	50,000	30,000	100,000	100,000	50,000	150,000	300,000	300,000
BA-S		500,000	700,000	500,000	300,000	300,000	300,000	300,000	300,000	300,000
BE-S		3,000	3,000	3,000	3,000	5,000	3,000	3,000	5,000	3,000
BI-S		NAO DET.	NAC DET.	-10,000	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
CD-S		NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
CO-S		7,000	5,000	10,000	7,000	10,000	7,000	7,000	7,000	7,000
CR-S		15,000	-10,000	15,000	15,000	10,000	-10,000	-10,000	-10,000	-10,000
CU-S		-5,000	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000
LA-S		150,000	70,000	200,000	150,000	100,000	200,000	100,000	150,000	100,000
MO-S		NAO DET.	NAO DET.	NAC DET.	7,000	5,000	5,000	-5,000	-5,000	-5,000
NE-S		30,000	50,000	50,000	50,000	30,000	20,000	30,000	50,000	50,000
NI-S		NAO DET.	NAC DET.	-5,000	-5,000	-5,000	NAO DET.	-5,000	-5,000	5,000
PE-S		70,000	70,000	70,000	50,000	30,000	50,000	50,000	50,000	100,000
SB-S		NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SC-S		INTERFER.	INTERFER.	INTERFER.	INTERFER.	10,000	10,000	INTERFER.	INTERFER.	INTERFER.
SN-S		30,000	100,000	30,000	50,000	30,000	150,000	30,000	30,000	30,000
SR-S		NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
V-S		30,000	15,000	30,000	20,000	30,000	15,000	20,000	20,000	30,000
W-S		NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
Y-S		70,000	70,000	70,000	70,000	70,000	100,000	70,000	150,000	70,000
ZN-S		NAO DET.	NAO DET.	NAC DET.	-200,000	-200,000	-200,000	NAO DET.	-200,000	NAC DET.
ZR-S		+1000,000	+1000,000	+1000,000	+1000,000	1000,000	700,000	+1000,000	+1000,000	+1000,000
CU-AA	5,000	5,000	-5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
PE-AA	20,000	15,000	20,000	20,000	35,000	35,000	35,000	25,000	40,000	35,000
ZN-AA	30,000	25,000	35,000	25,000	60,000	60,000	45,000	30,000	35,000	30,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CD-AA										
TE-AA										
AU-AA		NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AS-COL	-10,000	-10,000	-10,000	-10,000	-10,000	10,000	-10,000	-10,000	-10,000	-10,000
SB-CCL	NAO DET.	-1,000	NAC DET.	-1,000	-1,000	-1,000	-1,000	NAO DET.	-1,000	-1,000

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SEDIMENTO DE COPRENTE PINHEIRO CERRO DA ARVORE

NUM. LAB. NUM. CAMPO AMB. BIOTICO	JAC008 CK0235	JADCC9 CK0235A	JADC10 CK0236	JACC11 CK0240	JAD012 CK0242	JAC013 CK0243	JAC014 CK0245	JAD015 CK0247	JACC16 CK0247A	JAC017 CK0249
PARAMETROS ANALITICOS DE CAMPO										
EH										
PH	6,5	6,5	6,0	6,0			6,5	6,0	6,0	6,0
METAL TOTAL CODIF. LIVRE	AS011	AS013	ASC21	AS051	AS201	AS202	AS211	ASC61	AS063	AS111
PARAMETROS ANALITICOS										
FE-S %	0,700	0,700	2,000	1,500	0,700	1,500	0,700	1,500	1,500	1,500
HG-S %	0,020	0,020	0,150	0,100	0,030	0,030	0,030	0,150	0,150	0,070
CA-S %	0,070	0,070	0,070	0,100	0,070	0,070	0,070	0,200	0,150	0,070
TI-S %	0,300	0,300	0,200	0,700	0,500	0,700	0,150	0,500	0,300	0,500
MN-S	300,000	300,000	300,000	700,000	300,000	300,000	200,000	300,000	300,000	500,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AS-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AU-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
B-S	30,000	30,000	30,000	30,000	100,000	100,000	70,000	50,000	30,000	50,000
BA-S	700,000	700,000	300,000	300,000	300,000	300,000	200,000	700,000	700,000	300,000
BE-S	3,000	3,000	5,000	7,000	5,000	3,000	3,000	5,000	5,000	7,000
BI-S	NAO DET.	NAO DET.	-10,000	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CO-S	NAO DET.	NAO DET.	7,000	5,000	NAO DET.	7,000	NAO DET.	7,000	5,000	5,000
CR-S	-10,000	-10,000	-10,000	30,000	-10,000	10,000	NAO DET.	30,000	15,000	-10,000
CU-S	-5,000	-5,000	15,000	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000
LA-S	70,000	70,000	100,000	+1000,000	150,000	150,000	30,000	70,000	100,000	150,000
MO-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	-5,000	NAO DET.	NAO DET.	NAC DET.	NAC DET.
NB-S	15,000	20,000	15,000	20,000	15,000	50,000	15,000	15,000	15,000	30,000
NI-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	5,000	5,000	NAC DET.
PE-S	70,000	70,000	30,000	70,000	30,000	70,000	30,000	50,000	50,000	50,000
SB-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SC-S	INTERFER.	INTERFER.	7,000	INTERFER.	7,000	INTERFER.	-5,000	7,000	5,000	INTERFER.
SN-S	-10,000	-10,000	10,000	15,000	15,000	20,000	-10,000	10,000	-10,000	30,000
SR-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	100,000	100,000	NAC DET.
V-S	15,000	15,000	30,000	30,000	20,000	30,000	15,000	30,000	30,000	20,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
Y-S	30,000	30,000	70,000	200,000	50,000	70,000	30,000	30,000	30,000	70,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	-200,000	NAO DET.	NAC DET.	NAC DET.
ZR-S	+1000,000	+1000,000	300,000	+1000,000	700,000	+1000,000	300,000	500,000	500,000	+1000,000
CU-AA	5,000	5,000	20,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
PE-AA	10,000	15,000	20,000	25,000	20,000	20,000	25,000	15,000	15,000	20,000
ZN-AA	15,000	15,000	40,000	30,000	25,000	25,000	35,000	20,000	20,000	30,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CD-AA										
TE-AA										
AU-AA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AS-COL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SB-COL	NAO DET.	-1,000	NAO DET.	NAC DET.	-1,000	-1,000	-1,000	NAO DET.	NAC DET.	-1,000

S E A G

PROJETO - LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

## SEDIMENTO DE CORRENTE FINHEIRO CERRO DA ARVORE

NUM. LAB. NUM. CAMPO CXCU-CCL MET PES CO-CCL MO-COL W-COL P-COL SE-CCL U-CCL TI-CCL % HG-INS F-INS S-INS % C-INS % PH AU-P ORG AU-P ANL	JAD008 CK0235	JAD009 CK0235A	JAD010 CK0236	JAD011 CK0240	JAD012 CK0242	JAD013 CK0243	JAD014 CK0245	JAD015 CK0247	JAD016 CK0247A	JAD017 CK0249
	20,000	20,000	20,000	40,000	20,000	20,000	-20,000	-20,000	-20,000	20,000
	50,000	110,000	600,000	350,000	160,000	170,000	180,000	200,000	225,000	200,000

CPRM

LISTAGEM DE AMOSTRAS

03.02.76

FLA. UNICA

SISTEMA DE ESTATISTICA DE AMOSTRAGEM

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FOLHA DE CONTROLE - PROGRAMA PRGQMC07

\*\*\* OPCOES \*\*\*

ARQUIVO

0 0 0 0 0 0 0 0 0

FS193120

AMOSTRAS LIDAS 95

AMOSTRAS IMPRESSAS 95

N. INICIAL DA PAGINA 1

N. FINAL DA PAGINA 30

N. DE AMOSTRA INICIAL

N. DE AMOSTRAS FINAL



SEDIMENTO DE CORRENTE FINHEIRO CERRO DA ARVCRE

NUM. LAB.	JAD008	JAD009	JAD010	JAD011	JAD012	JAD013	JAD014	JAD015	JAD016	JAD017
NUM. CAMPO	CK0235	CK0235A	CK0236	CK0240	CK0242	CK0243	CK0245	CK0247	CK0247A	CK0249
C. CLSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300
PROCECENCIA	AD	AD	AD	AD	AD	AD	AD	AD	AD	AD
BASE CART.	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI
BASE CART.	2	2	2	2	13	13	14	2	2	2
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	334700	334700	334600	335150	331610	331610	332400	334020	334020	333620
UTM - LONG.	06613250	06613250	06613600	06617750	06627950	06627550	06626700	06615220	06615220	06619320
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REC.	D	D	D	D	D	D	D	D	D	D
ID. GEOLG.	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	B	B	B	B	B	B	B	B	B	B
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.	C	C	C	C	C	C	C	C	C	C
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE										
PROF. AMOST.	0,20	0,20	0,20	0,15	0,20	0,20	0,20	0,20	0,20	0,20
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINEP.										
DEP. CCCOR.										
LARGURA RIO	1	1	1	1	3	3	3	4	4	3
PROFUND. RIO	0,2	0,2	0,2	0,1	0,2	0,2	0,2	0,2	0,2	0,2
VELOC. CORR.	2	2	3	2	3	3	3	3	3	3
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA CRENAG.	1	1	1	1	1	1	1	1	1	1
TURB. AGUA	0	C	1	1	1	1	1	1	1	1
POS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	A	A	A	A	A	A	A	A	A	A
GRAU ARREC.	C	C	C	C	C	C	C	C	C	C
VOL. ORIGIN.										
PESO CONC.										
GRANULOMET.										
TEXT. SEDIM.	35 2	35 2	26 2	26 2	27 1	27 1	27 1	16 1	16 1	8 2
COR SEC./SL.										
HORIZ. SOLO										
TIPO SOLO										

Área de Pinheiro - Cerro da Árvore

Sedimentos de corrente

Concentrados de bateia

Solos de *background* - horizonte A

Solos de *background* - horizonte C

Solos de perfis - horizonte A

Solos de perfis - horizonte C

Rochas graníticas

ROCHAS ULTRABASICAS CERRE MANTIQUEIRAS

NUM. LAB. JAD351  
 NUM. CAMPO RF0167A  
 C. CLSTO 1533  
 S. CLSTO 300  
 PROCECENCIA AD  
 BASE CART. SH22YAIV  
 BASE CART. 3  
 BASE CART.  
 FSCALA 0050  
 DATA 08/75  
 LATITUDE  
 LONGITUDE  
 ABCISSA - X 0000  
 ORDENADA - Y 0000  
 UTM - LAT. 215050  
 UTM - LONG. 06578100  
 MER. CENT. 51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST. R  
 TIPO AMOST. B  
 FONTE AMOST. A  
 ROCHA REC. U  
 ID. GEOLCG. AS  
 MAT. CCLFT. SRPN  
 PLUVIOSIDADE B  
 TIPO VEGET. A  
 SIT. TCPOG. B  
 SIT. AMOST.  
 ALTITUDE  
 PROF. AMOST.  
 FORMA IGNEA  
 SIT. ESTRUT.  
 MATRIZ PREC.  
 GRAU INTEMP. B  
 TIPO ALTER.  
 TIPO MINER.  
 DEP. CCCCR.  
 LARGURA RIO  
 PROFUND. RIO  
 VELOC. CCRR.  
 NIVEL AGUA  
 AREA DRENAG.  
 TURB. AGUA  
 POS. CCLETA  
 COR AGUA  
 GRAU ARREC.  
 VCL. CFIGIN.  
 PESO CCNC.  
 GRANULOMET.  
 TEXT. SECIM.  
 COR SEC./SL.  
 HORIZ. SCLO  
 TIPO SCLO



## ROCHAS ULTRABASICAS CERRC MANTIQUEIRAS

NUM. LAB. JAC351  
 NUM. CAMFO RF-0167A  
 AMB. BIOTICO

## PARAMETROS ANALITICOS DE CAMPO

FM  
 PF  
 METAL TOTAL  
 CODIF. LIVRE Mr233

## PARAMETROS ANALITICOS

FE-S %	10,000
MG-S %	10,000
CA-S %	-0,050
TI-S %	0,003
MN-S	500,000
AG-S	NAC DET.
AS-S	NAC DET.
AU-S	NAO DET.
B-S	70,000
BA-S	NAC DET.
BE-S	NAO DET.
BI-S	NAC DET.
CD-S	NAO DET.
CO-S	100,000
CR-S	+5000,000
CU-S	-5,000
LA-S	NAC DET.
MO-S	NAC DET.
NE-S	10,000
NI-S	1000,000
PB-S	-10,000
SE-S	NAO DET.
SC-S	10,000
SN-S	NAO DET.
SR-S	NAC DET.
V-S	20,000
W-S	NAC DET.
Y-S	NAC DET.
ZN-S	NAO DET.
ZR-S	NAO DET.
CU-AA	5,000
PB-AA	30,000
ZN-AA	20,000
AG-AA	INTERFER.
CO-AA	
NI-AA	
BI-AA	
CC-AA	
TE-AA	
AU-AA	

ROCHAS ULTRABASICAS CERRO MANTICUFIRAS

NUM. LAB:	JAC382	JAD383	JAD384	JAD385	JAD386	JAD386A	JAD387	JAD388	JAD389	JAD390
NUM. CAMPO	RH0162	RH0163	RH0164	RH0165	RH0166	RH0166	RH0167	RH0168	RH0169	RH0159A
C. CLSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300
PROCECENCIA	AD	AD	AD	AD	AD	AC	AD	AD	AD	AC
BASE CART.	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV
BASE CART.	3	3	3	3	3	3	2	3	3	3
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	216125	215850	215625	215625	215400	215400	215050	214550	214150	217000
UTM - LONG.	06578250	06578200	06578175	06578175	06578150	06578150	06578100	06578050	06577950	06578450
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	R	R	P	R	R	R	P	R	F	F
TIPC AMOST.	B	B	B	B	B	B	B	B	B	B
FENTE AMOST.	A	A	A	A	A	A	A	A	A	A
ROCHA REC.	U	U	U	U	U	U	U	U	U	U
ID. GEOLÓG.	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
MAT. COLET.	SRPN	SRPN	SRPN	SRPN	SRPN	SRPN	SRPN	FRDT	FRCT	MBST
PLUVIOSIDADE	B	A	B	B	B	B	B	B	B	B
TIPO VEGET.	A	B	A	A	A	A	A	A	A	A
SIT. TOPOG.	C	B	B	B	B	B	B	B	B	B
SIT. AMOST.										
ALTITUDE										
PROF. AMOST.										
FORMA IGNEA										
SIT. ESTRLT.	A	A	B	B	A	A	A	B	B	B
MATRIZ PREC.										
GRAU INTEMP.	B	C	B	B	B	B	B	B	B	B
TIPO ALTER.										
TIPO MINER.										
DEP. CCCR.										
LARGURA FIO										
PROFUND. FIO										
VELOC. CORR.										
NIVEL AGUA										
AREA DRENAG.										
TURB. AGLA										
POS. COLETA										
COR AGLA										
GRAU AFREC.										
VOL. CRISTAL.										
PESO CCNC.										
GRANULOMET.										
TEXT. SECIM.										
COR SEC./SL.										
HORIZ. SCLO										
TIPO. SOLQ										





ROCHAS ULTRABASICAS CERRC MANTIQUEIRAS

NUM. LAB.	JAD328	JAD329	JAD330	JAD331	JAD332	JAD277	JAD378	JAD375	JAD360	JAD381
NUM. CAMPO	RF0155	RH0156	RHCC93A	RH0149A	RH0153A	RF0157	RF015E	RHC159	RF0160	RF0161
C. CLSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300
PROCECENCIA	AD	AD	AC	AD	AD	AC	AD	AC	AD	AD
BASE CART.	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV
BASE CART.	3	3	3	3	3	3	3	3	3	3
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
CATA	07/75	07/75	07/75	07/75	07/75	08/75	08/75	08/75	08/75	08/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	218750	218300	220925	221000	219100	217950	217500	217000	216525	216300
UTM - LONG.	06579100	06578800	06580020	06580200	06579000	06578600	06578500	06578450	06578350	06578300
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	R	R	R	R	R	R	R	R	R	R
TIPO AMOST.	B	B	A	A	B	B	B	B	B	B
FONTE AMOST.	A	A	A	A	A	A	A	A	A	A
ROCHA REC.	U	U	U	U	U	U	U	U	U	U
ID. GEOLCG.	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
MAT. CCLET.	SRPN	RMET	SPFN	MBST	DUNT	PRCT	PRCT	MBST	SRPN	SRPN
PLUVIOSIDADE	B	B	B	B	B	B	B	B	B	B
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TCPCG.	B		C	B	B	B	B	B	C	C
SIT. AMOST.	B	B								
ALTITUDE										
PROF. AMOST.										
FORMA IGNEA	B		B	B						
SIT. ESTRUT.	A	B	A	A	A	A	B	B	A	A
MATRIZ PFEC.										
GRAU INTEMP.	B	C	B	C	C	B	B	B	C	B
TIPO ALTER.										
TIPO MINER.										
DEP. CCCOR.										
LARGURA RIO										
PROFUND. RIO										
VELOC. CORR.										
NIVEL AGUA										
AREA DRENAG.										
TURB. AGUA										
POS. CCLETA										
COR AGUA										
GRAU AFREC.										
VOL. ORIGIN.										
PESO CCNC.										
GRANULOMET.										
TEXT. SECIM.										
CDR SEC./SL.										
HORIZ. SCLO										
TIPO SCLO										



ROCHAS ULTRAFASICAS CERRC MANTIQUEIRAS

NUM. LAB.	JAD318A	JAD319	JAD320	JAC321	JAC322	JAC323	JAD324	JAD325	JAC326	JAC327
NUM. CAMPO	RH0145	RH0146	RHC147	RH0148	RH0149	RH0150	RH0151	PH0152	RH0153	RH0154
C. CLSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300
PROFICIENCIA	AD	AD	AC	AD	AD	AC	AD	AD	AC	AC
BASE CART.	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV
BASE CART.	3	3	3	3	3	3	2	3	3	3
EASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	221900	221500	221250	221250	221000	219900	219900	215450	219100	219100
UTM - LONG.	06580650	06580500	06580400	06580400	06580200	06579250	06579250	06579050	06575000	06579000
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	R	R	R	R	R	R	R	R	R	R
TIPC AMOST.	A	A	B	B	A	A	A	A	B	B
FONTE AMOST.	A	A	A	A	A	A	A	A	A	A
ROCHA REC.	U	U	U	U	U	U	U	U	U	U
ID. GEOLG.	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
MAT. CCLET.	MBST	RVLC	SRPN	SRPN	MBST	ANFB	ANFB	CLNT	EUNT	DUNT
PLUVIOSIDADE	A	B	B	B	B	B	B	B	B	B
TIPC VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TCPCG.	C		B	B	B	B	B	B	B	B
SIT. AMOST.		C								
ALTITUDE										
PROF. AMOST.										
FORMA IGNEA	B	B	B	B	B	C	C	B	A	A
SIT. ESTRUT.	A	A	A	A	A	A	A	A	A	A
MATRIZ PRED.						B	B	B		
GRAU INTEMP.	B	B	B	B	C	B	B	C	C	C
TIPO ALTER.			Z	Z						
TIPO MINEF.										
DEP. CCCOR.										
LARGURA RIO										
PROFUND. RIO										
VELCC. CORR.										
NIVEL AGUA										
AREA CFENAG.										
TURB. AGUA										
POS. CCLETA										
COR AGUA										
GRAU AFREC.										
VOL. ORIGIN.										
PESO CCNC.										
GRANULMET.										
TEXT. SECIM.										
COR SEC./SL.										
HORIZ. SOLO										
TIPC SOLO										





ROCHAS ULTRABASICAS CERRC MANTIQUEIRAS

NUM. LAB.	JAD309	JAD310	JAC311	JAC312	JAC313	JAC314	JAC315	JAC316	JAC317	JAC318
NUM. CAMPO	RH0051	RH0052	RH0053	RH0054	RH0093	RH0094	RH0095	RH0096	RH0097	RH0145
C. CUSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300
PROCECENCIA	AD	AD	AC	AD	AD	AC	AC	AC	AD	AC
BASE CART.	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV
BASE CART.	3	3	3	3	3	3	3	3	3	3
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	220750	220500	220350	220100	220925	220920	220900	220500	221000	221900
UTM - LONG.	06579900	06579800	06579650	06579400	06580020	06580015	06580000	06579960	06580030	06580650
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	R	R	P	R	R	R	R	R	R	R
TIPO AMOST.	A	A	A	A	A	A	A	A	A	A
FONTE AMOST.	A	A	A	A	A	A	A	A	A	A
ROCHA REC.	U	U	L	U	U	U	U	U	U	U
ID. GEOLOG.	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
MAT. COLET.	DUNT	SRPN	ANFB	CHRT	SRPN	SPTN	CUNT	MPRT	MPRT	MBST
PLUVIOSIDADE	B	B	B	B	B	B	B	B	B	B
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.	B	B	A	B	C	C	B	C	C	C
SIT. AMOST.										
ALTITUDE										
PROF. AMOST.										
FORMA IGNEA	B	B	C		B	B	C		B	B
SIT. ESTRUT.	A	A	A	B	A	A	A		A	A
MATRIZ PRED.										
GRAU INTIMP.	B	B	C	B	B	B	B		B	B
TIPO ALTER.		Z	E							
TIPO MINER.										
DEP. CCCC.										
LARGURA FIO										
PROFUND. RIO										
VELOC. CORR.										
NIVEL AGLA										
AREA CRENAG.										
TURB. AGLA										
POS. COLETA										
COR AGLA										
GRAU AFREC.										
VCL. ORIGIN.										
PESO CENC.										
GRANULOMET.										
TEXT. SECIM.										
COR SED./SL.										
HORIZ. SOLO										
TIPO SCLC										







CPRM

LISTAGEM DE AMOSTRAS

03.02.76

FLA. UNICA

SISTEMA DE ESTATISTICA DE AMOSTRAGEM

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FOLHA DE CONTROLE - PROGRAMA PRCQMCC7

\*\*\* OPCOES \*\*\*

ARQUIVO

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AMOSTRAS LIDAS 41

AMOSTRAS IMPRESSAS 41

N. INICIAL DA PAGINA 1

N. FINAL DA PAGINA 10

N. DE AMOSTRA INICIAL

N. DE AMOSTRAS FINAL





S E A G

PROJET LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

SOLOS HOF. C GNAISSES, CERRO MANTIQUEIRAS

NUM. LAB.	JAC213	JAD215	JAC236	JAD239	JAC241	JAF243	JAC245	JAD255	JAC262
NUM. CAMPC	RH0101	RH0103	RH0124	RH0127	RH0129	RH0131	RH0133	RHC143	RH0103A
C. CLSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300
PRECECENCIA	AD	AD	AC	AD	AD	AC	AD	AC	AC
BASE CART.	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV
BASE CART.	3	3	3	3	3	3	3	3	3
BASE CART.									
FSCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75
LATITUDE									
LONGITUDE									
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	216150	216150	216150	216150	216150	216150	216150	216150	216150
UTM - LONG.	06578310	06578290	06578030	06577990	06577970	06578330	06578290	06577970	06578290
MER. CENT.	51	51	51	51	51	51	51	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	L	L	L	L	L	L	L	L	L
TIPC AMOST.	C	C	C	C	C	C	C	C	C
FCNTE AMOST.	C	C	C	C	C	C	C	C	C
ROCHA REC.	M	M	M	M	M	M	M	M	M
ID. GEOLOG.	AS	AS	AS	AS	AS	AS	AS	AS	AS
MAT. CCLET.	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO
PLUVICISICADE	B	B	B	B	B	B	B	B	B
TIPC VEGET.	A	A	A	A	A	A	A	A	A
SIT. TCFCC.	B	B	B	B	B	B	B	B	B
SIT. AMOST.									
ALTITUDE									
PRCF. AMOST.	0,50	0,50	0,70	0,75	0,55	0,50	0,50	0,55	0,50
FORMA IGNEA									
SIT. ESTRUT.									
MATRIZ PREC.									
GRAU INTEMP.									
TIFO ALTER.									
TIPO MINER.									
DEP. CCCC.									
LARGURA FIO									
PRCFUNC. RIO									
VELOC. CORR.									
NIVEL AGLA									
AREA CRENAG.									
TURB. AGLA									
POS. CCLETA									
COR AGLA									
GRAU AFREC.									
VOL. CRIGIN.									
PESO CCNC.									
GRANULOMET.									
TEXT. SECIM.	532	424	352	352	334	532	424	334	424
COR SEC./SL.	G	G	G	I	I	G	G	I	G
HORIZ. SOLO	C	C	C	C	C	C	C	C	C
TIPC SOLO	F	F	F	F	F	F	F	F	F

CP.

LISTAGEM DE AMOSTRAS

03.02.76

FLA. UNICA

SISTEMA DE ESTATISTICA DE AMOSTRAGEM

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FOLHA DE CONTROLE - PROGRAMA PRGOMCC7

\*\*\* OPCOES \*\*\*

ARQUIVO

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FS193270

AMOSTRAS LICAS 19

AMOSTRAS IMPRESSAS 19

N. INICIAL DA PAGINA 1

N. FINAL DA PAGINA 4

N. DE AMOSTRA INICIAL

N. DE AMOSTRAS FINAL

S E A G

PROJETO - LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

SOLOS HCP. C GNAISSFS CERRO MANTIQUEIRAS

NUM. LAB.	JAD179	JAD181	JAD181A	JAC194	JAC196	JAC196	JAC196	JAD200	JAD202	JAD209	JAC211
NUM. CAMPO	RH0062	RH0064	RH0064	RH0077	RH0079	RH0079	RH0081	PH0083	RH0085	RH0092	RH0099
C. CLSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300	300
PROCECENCIA	AD	AD	AC	AD	AD	AD	AC	AD	AD	AD	AC
BASE CART.	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV
BASE CART.	3	3	3	3	3	3	3	3	3	3	3
BASE CART.											
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75
LATITUDE											
LONGITUDE											
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	220900	220900	220900	220900	220900	220900	220900	220900	220900	220900	216150
UTM - LONG.	06580080	06580100	06580100	06579920	06579900	06579900	06579880	06579880	06579900	06580100	06578330
MER. CENT.	51	51	51	51	51	51	51	51	51	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	L	L	L	L	L	L	L	L	L	L	L
TIPC AMOST.	C	C	C	C	C	C	C	C	C	C	C
FONTE AMOST.	C	C	C	C	C	C	C	C	C	C	C
POCHA REG.	M	M	M	M	M	M	M	M	M	M	M
ID. GEOLG.	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
MAT. COLET.	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO
PLUVIOSIDADE	B	B	B	B	B	B	B	B	B	B	B
TIPC VEGET.	A	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.	B	A	A	C	C	C	C	C	C	A	B
SIT. AMOST.											
ALTITUDE											
PROF. AMOST.	0,70	0,40	0,40	0,40	0,40	0,40	0,40	0,40	0,40	0,40	0,50
FORMA IGNEA											
SIT. ESTRUT.											
MATRIZ PRED.											
GRAU INTEMP.											
TIPO ALTER.											
TIPO MINER.											
DEP. CCCOR.											
LARGURA FIO											
PROFUND. RIO											
VELOC. CORR.											
NIVEL AGLA											
AREA DRENAG.											
TURB. AGUA											
POS. COLETA											
COR AGLA											
GRAU AFREC.											
VOL. CRIGIN.											
PESO CCNC.											
GRANULOMET.											
TEXT. SECIM.	1243	1243	1243	343	442	442	442	442	442	1243	532
COR SEC./SL.	C	C	C	G	C	C	C	C	C	C	G
HORIZ. SOLO	C	C	C	C	C	C	C	C	C	C	C
TIPO SOLO	F	F	F	F	G	F	F	F	F	F	F



## SOLOS HOR. A GNAISSES CERRO MANTIQUEIRAS

NUM. LAB.	JAD261
NUM. CAMPO	RH0102A
C. CUSTO	1533
S. CUSTO	300
PROCEDENCIA	AD
BASE CART.	SH22YAIV
BASE CART.	3
BASE CART.	
ESCALA	0050
DATA	07/75
LATITUDE	
LONGITUDE	
ABCISSA - X	0000
ORDENADA - Y	0000
UTM - LAT.	216150
UTM - LONG.	06578290
MER. CENT.	51

## PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	L
TIPC AMOST.	C
FONTE AMOST.	C
ROCHA REC.	M
IC. GEOLG.	AS
MAT. COLET.	SOLO
PLUVIOSIDADE	B
TIPO VEGET.	A
SIT. TCPCG.	B
SIT. AMOST.	
ALTITUDE	
PROF. AMOST.	0,15
FORMA IGNEA	
SIT. ESTRUT.	
MATRIZ PREC.	
GRAU INTEMP.	
TIPO ALTER.	
TIPO MINER.	
DEP. CCCR.	
LARGURA RIO	
PROFUND. RIO	
VFLOC. CCCR.	
NIVEL AGUA	
AREA CRENAG.	
TURB. AGLA	
POS. COLETA	
COR AGLA	
GRAU ARREC.	
VOL. CRIGIN.	
PESO CCNC.	
GRANULOMET.	
TEXT. SEDIM.	13321
COR SEC./SL.	C
HORIZ. SCLO	A
TIPC. SCLC	F

S E A G

PROJETO - LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

SOLOS HOR. A GNAISSES CERRO MANTIQUEIRAS

NUM. LAB. JAC261  
 NUM. CAMFC RH0102A  
 AMB. BIOTICO

## PARAMETROS ANALITICOS DE CAMPO

FF  
 PF  
 METAL TGTAL  
 COCIF. LIVRE M2033

## PARAMETROS ANALITICOS

FE-S %	3,000
MG-S %	1,000
CA-S %	0,500
TI-S %	0,700
MN-S	1000,000
AG-S	NAC DET.
AS-S	NAC DET.
AU-S	NAO DET.
B-S	30,000
BA-S	300,000
BE-S	-1,000
BI-S	NAO DET.
CD-S	NAO DET.
CO-S	20,000
CR-S	700,000
CU-S	70,000
LA-S	NAO DET.
MO-S	NAO DET.
NB-S	10,000
NI-S	150,000
PB-S	30,000
SE-S	NAO DET.
SC-S	20,000
SN-S	NAO DET.
SR-S	NAO DET.
V-S	200,000
W-S	NAO DET.
Y-S	20,000
ZN-S	-200,000
ZR-S	300,000
CU-AA	40,000
PB-AA	25,000
ZN-AA	35,000
AG-AA	INTERFER.
CO-AA	
NI-AA	
BI-AA	
CC-AA	
TE-AA	
AU-AA	

SCLOS HOR. A GNAISSES CERRO MANTIQUEIRAS

NUM. LAB.	JAC212	JAC214	JAC235	JAC237	JAC238	JAC240	JAC242	JAC244	JAC253	JAC254
NUM. CAMPO	RH0100	RH0102	RHC123	RH0125	RH0126	RH0128	RH0130	RHC132	RHC141	RH0142
C. CUSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300
PRECISEZANCIA	AD	AD	AC	AD	AD	AC	AD	AD	AD	AC
BASE CART.	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV
BASE CART.	3	3	3	3	3	3	3	3	3	3
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	216150	216150	216150	216150	216150	216150	216150	216150	216150	216150
UTM - LONG.	06578310	06578290	06578030	06578010	06577990	06577970	06578330	06578290	06578010	06577970
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	L	L	L	L	L	L	L	L	L	L
TIPC AMOST.	C	C	C	C	C	C	C	C	C	C
FONTE AMOST.	C	C	C	C	C	C	C	C	C	C
POCHA REC.	M	M	M	M	M	M	M	M	M	M
ID. GEOLG.	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
MAT. COLET.	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO
PLUVIOSIDADE	B	B	B	B	B	B	B	B	B	B
TIPC VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.	B	B	B	A	B	B	B	B	A	B
SIT. AMOST.										
ALTITUDE										
PROF. AMOST.	0,15	0,15	0,25	0,40	0,25	0,25	0,20	0,15	0,40	0,25
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTEMP.										
TIPO ALTER.										
TIPC MINER.										
DEP. OCCOR.										
LARGURA RIO										
PROFUND. RIO										
VELOC. CORR.										
NIVEL AGUA										
AREA DRENAG.										
TURB. AGUA										
POS. COLETA										
COR AGUA										
GRAU AFREI.										
VOL. CRIGIN.										
PESO CCNC.										
GRANULOMET.										
TEXT. SEDIM.	14311	13321	13222	2242	12331	22321	14221	13321	2242	22321
COR SEC./SL.	E	C	E	E	E	E	D	C	E	E
HORIZ. SCLO	A	A	A	A	A	A	A	A	A	A
TIPC SCLO	F	F	F	F	F	F	F	F	F	F





S E A G

PROJETO (LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

SCLOS HCR. A GNAISSES CEPRO MANTIQUEIRAS

NUM. LAB.	JAC178	JAC180	JAC182	JAC193	JAC195	JAC197	JAC199	JAC201	JAC202	JAC210
NUM. CAMPO	RH0061	RH0063	RH0065	RH0076	RH0078	RH0080	RH0082	RH0084	RH0091	RH0098
C. CLSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300
PRECEDENCIA	AD	AD	AD	AD	AD	AD	AD	AD	AD	AD
BASE CART.	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV	SH22YAIV
BASE CART.	3	3	3	3	3	3	3	3	3	3
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	220900	220900	220900	220900	220900	220900	220900	220900	220900	216150
UTM - LONG.	06580080	06580100	06580120	06579920	06579900	06579880	06579860	06579840	06580100	06578330
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	L	L	L	L	L	L	L	L	L	L
TIPO AMOST.	C	C	C	C	C	C	C	C	C	C
FONTE AMOST.	C	C	C	C	C	C	C	C	C	C
ROCHA REG.	M	M	M	M	M	M	M	M	M	M
ID. GEOLG.	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
MAT. COLET.	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO
PLUVIOSIDADE	B	B	B	B	B	B	B	B	B	B
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.	B	A	A	C	C	C	C	C	A	B
SIT. AMOST.										
ALTITUDE										
PROF. AMOST.	0,50	0,25	0,70	0,10	0,20	0,25	0,25	0,20	0,25	0,20
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PRED.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEF. CCCR.										
LARGURA RIO										
PROFUND. RIO										
VELOC. CORR.										
NIVEL AGLA										
AREA DRENAG.										
TURB. AGLA										
POS. COLETA										
COR AGLA										
GRAU ARREC.										
VOL. COLETA										
PESO COLETA										
GRANULOMET.										
TEXT. SEDIM.	12331	3232	13321	23221	14311	15211	15211	14311	3232	14221
COR SEC./SL.	E	E	C	C	C	C	C	C	E	D
HORIZ. SCLO	A	A	A	A	A	A	A	A	A	A
TIPO SCLO	F	F	F	F	F	F	F	F	F	F







S E A G

PROJETO - LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

SOLOS DE PERFIS HCP. C FINHEIRO C. DA ARVORE

NUM. LAB. NUM. CAMPO CXCU-CCL MET PES CO-CCL MO-CCL W-COL P-COL SE-CCL U-CCL TI-COL % FG-INS F-INS S-INS % C-INS % PH AU-P ORG AU-P ANL	JAD498 CK0330	JAD499 CK0330A	JAD501 CK0332	JAD502 CK0333	JAD504 CK0335	JAD505 CK0335A	JAD507 CK0337	JAD508 CK0338	JAD511 CK0341	JAD514 CK0343
	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	-20,000
	475,000	475,000	425,000	425,000	1200,000	1200,000	225,000	600,000	400,000	425,000

SCLOS DE PERFIS HOR. C PINHEIRO C. DA ARVORE

NUM. LAB.	JAC498	JAD495	JAD501	JAC502	JAC504	JAC505	JAC507	JAD508	JAC511	JAC514
NUM. CAMPO	CK0330	CK0330A	CK0332	CK0333	CK0335	CK0335A	CK0337	CK0338	CK0341	CK0343
AMB. BIOTICO										

PARAMETROS ANALITICOS DE CAMPO

EP	A2021	A2023	A2041	A2042	A2061	A2063	A2081	A2082	A2101	A2121
PH										
METAL TOTAL										
COEF. LIVRE										

PARAMETROS ANALITICOS

FE-S %	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	10,000	10,000
MG-S %	0,300	0,300	0,300	0,300	0,300	0,300	0,300	0,300	0,500	0,500
CA-S %	-0,050	-0,050	-0,050	-0,050	-0,050	-0,050	-0,050	-0,050	-0,050	-0,050
TI-S %	0,700	0,500	0,700	0,500	0,700	0,700	0,700	0,700	1,000	0,700
MN-S	200,000	200,000	200,000	200,000	300,000	300,000	150,000	300,000	700,000	300,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AL-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	20,000	20,000	20,000	20,000	30,000	20,000	20,000	50,000	50,000	30,000
BA-S	500,000	300,000	300,000	300,000	700,000	500,000	500,000	300,000	500,000	300,000
BE-S	20,000	20,000	15,000	70,000	10,000	10,000	5,000	70,000	10,000	10,000
BT-S	10,000	10,000	10,000	10,000	-10,000	-10,000	-10,000	10,000	10,000	10,000
CC-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	15,000	15,000	10,000	10,000	10,000	15,000	10,000	5,000	20,000	15,000
CR-S	20,000	20,000	15,000	15,000	15,000	15,000	15,000	15,000	30,000	30,000
CU-S	150,000	150,000	150,000	150,000	150,000	150,000	150,000	100,000	150,000	150,000
LA-S	200,000	200,000	200,000	200,000	200,000	200,000	200,000	150,000	150,000	150,000
MO-S	10,000	7,000	5,000	7,000	5,000	7,000	7,000	10,000	10,000	10,000
NB-S	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
NI-S	15,000	15,000	15,000	15,000	10,000	10,000	15,000	15,000	20,000	20,000
PE-S	70,000	70,000	70,000	70,000	70,000	70,000	70,000	100,000	100,000	100,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	15,000	15,000	10,000	15,000	15,000	15,000	15,000	15,000	20,000	20,000
SN-S	50,000	50,000	300,000	70,000	70,000	50,000	30,000	70,000	50,000	70,000
SR-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
V-S	70,000	70,000	70,000	70,000	50,000	50,000	50,000	50,000	100,000	100,000
W-S	-50,000	-50,000	-50,000	-50,000	-50,000	-50,000	-50,000	-50,000	-50,000	-50,000
Y-S	150,000	100,000	100,000	100,000	100,000	100,000	70,000	70,000	70,000	50,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	500,000	700,000	500,000	500,000	500,000	700,000	700,000	1000,000	700,000	700,000
CU-AA	100,000	100,000	95,000	100,000	110,000	120,000	50,000	55,000	85,000	45,000
PE-AA	35,000	35,000	35,000	40,000	35,000	40,000	40,000	65,000	50,000	50,000
ZN-AA	50,000	45,000	50,000	50,000	55,000	60,000	55,000	40,000	60,000	55,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CD-AA										
TE-AA										
AU-AA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	0,100	NAO DET.	0,300
AS-CCL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SB-CCL	-1,000	-1,000	-1,000	-1,000	NAO DET.	NAO DET.	-1,000	-1,000	-1,000	1,000

SOLOS DE PERFIS HOR. C PINHEIRO C. DA ARVORE

NUM. LAB. NUM. CAMPO AMB. PICTICO	JAC517 CK0346	JAD520 CK0348	JAD522 CK0350	JAC523 CK0351	JAC526 CK0354	JAC529 CK0357	JAC532 CK0359	JAD534 CK0361	JAC535 CK0361A	JAC537 CK0363
PARAMETROS ANALITICOS DE CAMPO										
EM PH METAL TOTAL COEF. LIVRE	A2141	A2161	A2011	A2012	A2031	A2051	A2071	A2091	A2093	A2111
PARAMETROS ANALITICOS										
FE-S %	5,000	5,000	5,000	5,000	7,000	10,000	10,000	10,000	10,000	5,000
MG-S %	0,300	0,500	0,300	0,300	0,500	0,500	0,500	0,500	0,500	0,500
CA-S %	0,050	0,050	-0,050	-0,050	-0,050	-0,050	-0,050	-0,050	-0,050	-0,050
TI-S %	0,700	1,000	0,700	0,700	0,700	1,000	0,700	1,000	1,000	0,700
MN-S	200,000	500,000	200,000	200,000	300,000	300,000	300,000	200,000	200,000	300,000
AG-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	1,000	NAC	NAC DET.
AS-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
AU-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
B-S	20,000	30,000	20,000	20,000	20,000	10,000	20,000	20,000	20,000	20,000
BA-S	700,000	1000,000	500,000	300,000	300,000	300,000	700,000	500,000	500,000	500,000
BE-S	5,000	5,000	10,000	10,000	10,000	7,000	10,000	10,000	10,000	10,000
BI-S	-10,000	-10,000	10,000	-10,000	10,000	10,000	-10,000	-10,000	-10,000	-10,000
CC-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CO-S	10,000	15,000	15,000	10,000	15,000	20,000	15,000	10,000	10,000	10,000
CR-S	30,000	30,000	20,000	15,000	20,000	15,000	15,000	15,000	20,000	30,000
CU-S	20,000	15,000	150,000	150,000	200,000	100,000	70,000	100,000	100,000	70,000
LA-S	150,000	150,000	300,000	500,000	300,000	500,000	200,000	200,000	200,000	150,000
MO-S	5,000	5,000	10,000	7,000	10,000	10,000	10,000	7,000	7,000	5,000
NR-S	20,000	50,000	30,000	50,000	30,000	30,000	30,000	30,000	30,000	30,000
NI-S	15,000	20,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
PP-S	50,000	50,000	100,000	50,000	70,000	70,000	100,000	100,000	100,000	200,000
SB-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SC-S	15,000	15,000	20,000	15,000	15,000	20,000	20,000	20,000	20,000	15,000
SN-S	20,000	20,000	70,000	30,000	100,000	70,000	70,000	50,000	50,000	70,000
SR-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
V-S	70,000	100,000	50,000	50,000	50,000	50,000	70,000	70,000	70,000	70,000
W-S	NAC DET.	NAO DET.	-50,000	-50,000	-50,000	-50,000	-50,000	-50,000	-50,000	NAC DET.
Y-S	70,000	100,000	150,000	200,000	150,000	150,000	100,000	100,000	100,000	70,000
ZN-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
ZR-S	1000,000	700,000	500,000	1000,000	700,000	700,000	700,000	700,000	700,000	500,000
CU-AA	20,000	15,000	110,000	120,000	150,000	50,000	40,000	50,000	50,000	40,000
PE-AA	35,000	35,000	35,000	25,000	40,000	45,000	45,000	45,000	45,000	70,000
ZN-AA	45,000	55,000	50,000	50,000	65,000	60,000	70,000	60,000	60,000	60,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CD-AA										
TE-AA										
AU-AA	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AS-CCL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SB-CCL	-1,000	-1,000	-1,000	-1,000	-1,000	-1,000	-1,000	-1,000	-1,000	-1,000

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PROJETO LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

SOLOS DE PERFIS HCR. C PINHEIRO C. DA ARVORE

NUM. LAB.	JAE517	JAD520	JAD522	JAD523	JAE526	JAE529	JAD522	JAE524	JAD535	JAE537
NUM. CAMPO	CK0346	CK0348	CK0350	CK0351	CK0354	CK0357	CK0359	CK0361	CK0361A	CK0363
C. CLSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300
PROCECENCIA	AD	AD	AD	AD	AD	AC	AD	AD	AD	AD
BASE CART.	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI
BASE CART.	1	1	1	1	1	1	1	1	1	1
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENACA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	230434	330498	330369	330369	330368	330366	230362	330354	330354	330338
UTM - LONG.	06609150	06609150	06609150	06609150	06609150	06609150	06609150	06609150	06609150	06609150
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARÂMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	L	L	L	L	L	L	L	L	L	L
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	C	C	C	C	C	C	C	C	C	C
ROCHA REC.	D	D	D	D	D	D	D	D	D	D
ID. GEOLÓG.	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
MAT. COLETA	SOLO	SOLO	SCLC	SOLO	SOLO	SOLO	SOLO	SCLC	SCLC	SCLC
PLUVIOSIDADE	D	D	D	D	D	D	D	D	D	D
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.	D	C	E	E	E	E	E	E	E	E
SIT. AMOST.										
ALTITUDE										
PROF. AMOST.	0,70	0,70	0,80	0,80	0,70	0,80	0,70	0,70	0,70	0,70
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PRED.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. OCCOR.										
LARGURA RIO										
PROFUND. RIO										
VELOC. CORR.										
NIVEL AGLA										
AREA DRENAG.										
TURB. AGLA										
POS. COLETA										
COR AGLA										
GRAU ARREC.										
VOL. CRICIN.										
PESO CONC.										
GRANULOMET.										
TEXT. SECIM.	1414	1423	1513	1513	1513	1513	1423	1423	1423	2323
CCR SEC./SL.	C	B	B	B	B	B	B	B	B	B
HORIZ. SCLC	C	C	C	C	C	C	C	C	C	C
TIPO SOLO	F	F	F	F	F	F	F	F	F	F



	SOLOS DE FERFIS		HOP. C	FINHEIRO C.		CA ARVOPE				
NUM. LAB. NUM. CAMPO CXCUCCL MET PES CO-CCL MO-CCL W-COL P-CCL SF-CCL U-CCL TI-CCL 2 HG-INS F-INS S-INS 2 C-INS 2 PH AU-P ORG AU-F ANL	JAD517 CK0346	JAD520 CK0348	JAD522 CK0350	JAD523 CK0351	JAD526 CK0354	JAD525 CK0357	JAD522 CK0359	JAD524 CK0361	JAD525 CK0361A	JAD537 CK0363
	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000
	400,000	600,000	500,000	600,000	700,000	475,000	600,000	500,000	500,000	600,000



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PROJETO - LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

SOLOS DE PERFIS HOR. C FINHEIRO C. DA ARVORE

NUM. LAB. NUM. CAMPO CXCUCCL MET PES CO-CCL MO-COL W-CCL P-COL SE-CCL U-CCL TI-COL % FG-INS F-INS S-INS % C-INS % PH AU-p ORG AU-P ANL	JAD538 CK0363A	JAD541 CK0365	JAD543 CK0367	JAD544 CK0368	JAD546 CK0370	JAD548 CK0372	JAD551 CK0375	JAD554 CK0377	JAD556 CK0379	JAD556A CK0379
	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000
	500,000	600,000	500,000	500,000	150,000	475,000	500,000	450,000	450,000	450,000

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SOLOS DE PERFIS HQR. C PINHEIRO C. DA ARVORE

NUM. LAB. NUM. CAMPO AMB. BIOTICO	JAC538 CK0363A	JAD541 CK0365	JAC543 CK0367	JAD544 CK0368	JAC546 CK0370	JAC548 CK0372	JAC551 CK0375	JAD554 CK0377	JAC556 CK0379	JAC556A CK0379
PARAMETROS ANALITICOS DE CAMPO										
EH PH METAL TOTAL COEF. LIVRE	A2113	A2131	A2151	A2152	A3021	A3041	A3061	A3081	A3101	A3101
PARAMETROS ANALITICOS										
FE-S %	5,000	10,000	5,000	3,000	5,000	5,000	5,000	5,000	5,000	5,000
MG-S %	0,500	0,700	0,500	0,300	0,300	0,300	0,300	0,300	0,500	0,500
CA-S %	-0,050	-0,050	0,050	0,050	0,050	-0,050	-0,050	-0,050	0,050	0,050
TI-S %	0,700	0,700	1,000	0,700	0,500	0,500	0,500	0,500	0,700	0,700
MN-S	300,000	500,000	300,000	300,000	200,000	300,000	200,000	200,000	200,000	200,000
AG-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AS-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AU-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
B-S	20,000	20,000	20,000	20,000	30,000	20,000	20,000	20,000	50,000	50,000
BA-S	500,000	500,000	700,000	700,000	500,000	500,000	700,000	500,000	700,000	700,000
BF-S	10,000	15,000	10,000	7,000	5,000	5,000	10,000	5,000	5,000	5,000
BI-S	-10,000	-10,000	-10,000	-10,000	10,000	10,000	-10,000	-10,000	-10,000	-10,000
CD-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
CO-S	10,000	15,000	10,000	10,000	15,000	20,000	20,000	20,000	10,000	10,000
CR-S	20,000	30,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000
CU-S	70,000	10,000	15,000	15,000	150,000	100,000	100,000	100,000	50,000	50,000
LA-S	150,000	150,000	200,000	150,000	70,000	70,000	200,000	100,000	150,000	150,000
MO-S	5,000	5,000	7,000	5,000	10,000	15,000	10,000	5,000	7,000	7,000
NB-S	20,000	30,000	50,000	50,000	30,000	20,000	20,000	30,000	30,000	30,000
NI-S	15,000	20,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
PE-S	200,000	70,000	70,000	70,000	70,000	100,000	150,000	70,000	50,000	50,000
SB-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
SC-S	15,000	20,000	15,000	15,000	15,000	15,000	15,000	15,000	10,000	10,000
SN-S	100,000	20,000	30,000	30,000	50,000	30,000	50,000	50,000	30,000	30,000
SR-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	100,000	NAC DET.	NAC DET.	NAC DET.
V-S	70,000	70,000	50,000	50,000	50,000	70,000	70,000	70,000	70,000	70,000
W-S	NAC DET.	NAC DET.	-50,000	NAC DET.	50,000	-50,000	-50,000	-50,000	-50,000	-50,000
Y-S	70,000	100,000	100,000	70,000	30,000	20,000	50,000	30,000	50,000	50,000
ZN-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
ZR-S	500,000	500,000	1000,000	1000,000	500,000	300,000	500,000	200,000	500,000	500,000
CU-AA	35,000	10,000	15,000	15,000	120,000	55,000	65,000	60,000	45,000	45,000
PE-AA	70,000	40,000	30,000	25,000	40,000	45,000	40,000	35,000	30,000	30,000
ZN-AA	55,000	70,000	55,000	50,000	75,000	75,000	70,000	50,000	50,000	50,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CD-AA										
TE-AA										
AU-AA	NAC DET.	NAC DET.	NAC DET.	NAC DET.	-0,050	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AS-CCL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SB-CCL	-1,000	-1,000	-1,000	-1,000	-1,000	1,000	1,000	1,000	1,000	1,000

SOLOS DE PERFIS . HOP. C PINHEIRO C. DA ARVORE

NUM. LAB.	JAD559	JAD562	JAD565	JAD567	JAD568	JAD570	JAD573	JAD575	JAD576	JAD579
NUM. CAMPO	CK0381	CK0384	CK0386	CK0388	CK0389	CK0391	CK0394	CK0396	CK0397	CK0399
AMB. BIOTICO										

PARAMETROS ANALITICOS DE CAMPO

EH										
PH										
METAL TOTAL										
CODIF. LIVRE	A3121	A3141	A3161	A3011	A3012	A3031	A2051	A3071	A3072	A3091

PARAMETROS ANALITICOS

FE-S %	5,000	5,000	5,000	10,000	10,000	10,000	15,000	10,000	10,000	5,000
MG-S %	0,500	0,500	0,500	0,500	0,500	0,500	0,500	0,500	0,500	0,500
CA-S %	0,150	0,050	0,200	-0,050	0,050	0,050	-0,050	-0,050	-0,050	-0,050
TI-S %	0,500	0,500	0,500	0,700	0,700	0,700	0,700	0,500	0,700	0,500
MN-S	500,000	500,000	300,000	300,000	300,000	300,000	500,000	500,000	300,000	500,000
AG-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	N/	NAC DET.
AS-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AL-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
B-S	20,000	50,000	10,000	50,000	50,000	50,000	50,000	30,000	30,000	30,000
BA-S	1000,000	700,000	700,000	700,000	1000,000	700,000	1000,000	700,000	700,000	1000,000
BE-S	3,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
BI-S	-10,000	-10,000	-10,000	-10,000	10,000	10,000	-10,000	-10,000	-10,000	-10,000
CD-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CO-S	20,000	15,000	15,000	15,000	15,000	20,000	20,000	50,000	20,000	10,000
CR-S	20,000	20,000	15,000	20,000	20,000	30,000	20,000	30,000	20,000	20,000
CU-S	5,000	5,000	5,000	300,000	300,000	300,000	200,000	150,000	200,000	100,000
LA-S	300,000	300,000	300,000	200,000	300,000	100,000	200,000	150,000	150,000	150,000
MO-S	10,000	5,000	-5,000	10,000	10,000	10,000	7,000	10,000	10,000	5,000
NB-S	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	20,000
NI-S	15,000	15,000	15,000	15,000	15,000	20,000	20,000	20,000	20,000	15,000
PE-S	70,000	70,000	70,000	100,000	150,000	100,000	100,000	100,000	150,000	150,000
SB-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
SC-S	15,000	20,000	10,000	15,000	20,000	20,000	20,000	20,000	20,000	15,000
SN-S	15,000	20,000	15,000	50,000	50,000	70,000	70,000	50,000	50,000	50,000
SR-S	NAO DET.	NAO DET.	NAC DET.	100,000	100,000	100,000	100,000	NAO DET.	NAC DET.	100,000
V-S	50,000	70,000	50,000	70,000	70,000	100,000	70,000	100,000	100,000	50,000
W-S	NAO DET.	NAO DET.	NAC DET.	-50,000	50,000	-50,000	-50,000	-50,000	-50,000	-50,000
Y-S	150,000	150,000	70,000	50,000	70,000	50,000	50,000	50,000	50,000	50,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	-200,000	-200,000	-200,000	-200,000	-200,000	NAC DET.	NAC DET.
ZR-S	700,000	700,000	700,000	500,000	+1000,000	+1000,000	700,000	700,000	700,000	500,000
CU-AA	10,000	10,000	5,000	230,000	200,000	180,000	110,000	75,000	75,000	45,000
PE-AA	30,000	35,000	25,000	40,000	55,000	45,000	45,000	60,000	55,000	40,000
ZN-AA	50,000	55,000	55,000	70,000	65,000	75,000	65,000	55,000	60,000	50,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CD-AA										
TE-AA										
AU-AA	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AS-COL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SB-CCL	1,000	-1,000	-1,000	-1,000	-1,000	-1,000	NAO DET.	-1,000	-1,000	NAC DET.



SOLCS DE PERFIS HOR. C PINHEIRO C. DA ARVORE

NUM. LAB.	JAC559	JAD562	JAD565	JAD567	JAC568	JAC570	JAC573	JAC575	JAC576	JAC579
NUM. CAMPO	CK0381	CK0384	CK0386	CK0388	CK0389	CK0391	CK0394	CKC396	CKC397	CK0399
C. CLSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300
PFCEDENCIA	AD	AD	AD	AD	AD	AD	AD	AD	AD	AD
BASE CART.	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI
BASE CART.	1	1	1	1	1	1	1	1	1	1
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	330402	330434	330498	330369	330369	330368	330366	330362	330362	330354
UTM - LONG.	06608950	06608950	06608950	06608950	06608950	06608950	06608950	06608950	06608950	06608950
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	L	L	L	L	L	L	L	L	L	L
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	C	C	C	C	C	C	C	C	C	C
ROCHA REG.	D	D	D	D	D	D	D	D	D	D
ID. CECICG.	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
MAT. COLET.	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO
PLUVIOSIDADE	D	D	D	D	D	D	D	D	D	D
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TCPCG.	E	E	E	E	E	E	E	E	E	E
SIT. AMOST.										
ALTITUDE										
PROF. AMOST.	0,90	1,20	0,70	0,60	0,60	0,70	0,70	0,60	0,60	0,70
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCOR.										
LARGURA RIC										
PROFUND. RIO										
VELOC. CORR.										
NIVEL AGUA										
AREA DRENAG.										
TURB. AGUA										
POS. COLETA										
COR AGUA										
GRAU ARREC.										
VCL. CRIGIN.										
PESO CCNC.										
GRANULOMET.										
TEXT. SEDIM.	2323	1423	3313	2413	2413	2413	2413	1423	1423	1423
COR SEC./SL.	B	B	C	B	B	B	B	B	B	B
HORIZ. SCLD	C	C	C	C	C	C	C	C	C	C
TIPO SCLD	F	F	F	F	F	F	F	F	F	F

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SOLOS DE PERFIS HCR. C PINHEIRO C. DA ARVORE

NUM. LAB.	JAC581	JAD581A	JAD582	JAD585	JAC588	JAC591	JAC594	JAC597	JAC599	JAC600
NUM. CAMPO	CK0401	CK0401	CK0401A	CK0403	CK0406	CK0409	CK0411	CKC413	CK0415	CK0416
C. CLSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300
PROCECENCIA	AD	AD	AD	AD	AD	AC	AD	AD	AD	AC
BASE CART.	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI
BASE CART.	1	1	1	1	1	1	1	1	1	1
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	330338	330338	330338	330306	330242	331934	331942	331958	331940	331990
UTM - LONG.	06608950	06608950	06608950	06608950	06608950	06616550	06616550	06616550	06616550	06616550
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	L	L	L	L	L	L	L	L	L	L
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	C	C	C	C	C	C	C	C	C	C
POCHA REG.	D	D	D	D	D	D	D	D	D	D
TC. CECLOG.	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
MAT. CCLET.	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO
PLUVIOSIDADE	D	D	D	D	D	A	A	A	A	A
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.	D	D	D	D	C	C	D	D	D	C
SIT. AMOST.										
ALTITUDE										
PROF. AMOST.	0,70	0,70	0,70	0,90	0,70	1,10	1,00	0,60	0,40	0,40
FORMA IGNEA										
SIT. ESTEUT.										
MATRIZ PED.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. OCCOR.										
LARGURA FIO										
PROFUND. RIO										
VELOC. CORR.										
NIVEL AGUA										
AREA DRENAG.										
TURB. AGUA										
POS. CCLETA										
COR AGUA										
GRAU ARREC.										
VOL. ORIGIN.										
PESO CCNC.										
GRANULOMET.										
TEXT. SECIM.	1423	1423	1423	1423	1423	53 2	43 3	43 3	43 3	43 3
COR SEC./SL.	B	B	B	B	B	B	B	B	B	B
HORIZ. SOLO	C	C	C	C	C	C	C	C	C	C
TIPO SOLO	F	F	F	F	F	F	F	F	F	F



SOLCS DE PERFIS POR C FINHEIRO C. DA ARVORE

NUM. LAB. NUM. CAMPO CXCQ-CCL MET PES CO-COL MO-CCL W-COL P-COL SE-CCL U-COL TI-CCL % FG-INS F-INS S-INS % C-INS % PH AU-p Cpg AU-P ANL	JAD581 CK0401	JAD581A CK0401	JAD582 CK0401A	JAD585 CK0403	JAD588 CK0406	JAD591 CK0409	JAD594 CK0411	JAD597 CK0413	JAD599 CK0415	JAD600 CK0416
	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000	20,000	20,000
	425,000	425,000	450,000	400,000	600,000	600,000	650,000	800,000	600,000	600,000



SOLOS DE PERFIS HOR. C PINHEIRO C. DA ARVORE

NUM. LAB.	JAC603	JAC605	JAC606	JAC606A	JAC608	JAC609	JAC611	JAC612	JAC615	JAC618
NUM. CAMFC	CK0419	CK0421	CK0421A	CK0421A	CK0423	CK0424	CK0426	CK0427	CK0429	CK0431
AMB. BIOTICO										

PARAMETROS ANALITICOS DE CAMPO

EH										
PH										
METAL TOTAL										
CODIF. LIVRE	A5101	A5011	A5013	A5013	A5031	A5032	A5051	A5052	A5071	A5091

PARAMETROS ANALITICOS

FE-S %	5,000	3,000	3,000		5,000	5,000	10,000	10,000	10,000	10,000
MG-S %	0,300	0,200	0,200		0,200	0,300	0,500	1,000	0,700	0,700
CA-S %	-0,050	0,150	0,150		0,150	0,150	0,050	0,150	0,100	0,200
TI-S %	0,700	1,000	1,000		+1,000	+1,000	+1,000	+1,000	1,000	1,000
MN-S	700,000	1000,000	1500,000		1500,000	1500,000	500,000	700,000	700,000	200,000
AG-S	3,000	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	50,000	20,000	20,000		30,000	20,000	30,000	50,000	30,000	50,000
BA-S	700,000	1500,000	1500,000		1500,000	1500,000	1000,000	1500,000	1000,000	1000,000
BE-S	10,000	5,000	5,000		5,000	5,000	5,000	5,000	15,000	10,000
BI-S	-10,000	-10,000	-10,000		-10,000	-10,000	-10,000	-10,000	-10,000	10,000
CC-S	NAO DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	20,000	10,000	10,000		20,000	20,000	20,000	50,000	30,000	20,000
CR-S	15,000	30,000	30,000		100,000	100,000	200,000	500,000	500,000	50,000
CU-S	15,000	50,000	30,000		70,000	50,000	100,000	150,000	100,000	100,000
LA-S	200,000	100,000	100,000		100,000	70,000	100,000	200,000	70,000	100,000
MO-S	5,000	7,000	7,000		5,000	7,000	7,000	10,000	5,000	10,000
NB-S	50,000	30,000	30,000		50,000	50,000	20,000	50,000	30,000	30,000
NI-S	15,000	10,000	10,000		20,000	20,000	50,000	70,000	70,000	15,000
PE-S	100,000	50,000	50,000		70,000	50,000	50,000	100,000	100,000	70,000
SB-S	NAO DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	20,000	15,000	15,000		30,000	20,000	20,000	50,000	30,000	30,000
SN-S	50,000	50,000	20,000		30,000	50,000	20,000	30,000	20,000	50,000
SR-S	NAO DET.	100,000	100,000		100,000	100,000	100,000	200,000	200,000	100,000
V-S	70,000	70,000	70,000		200,000	150,000	200,000	200,000	200,000	100,000
W-S	NAO DET.	NAO DET.	NAO DET.		-50,000	-50,000	-50,000	-50,000	-50,000	-50,000
Y-S	150,000	100,000	100,000		100,000	70,000	100,000	100,000	70,000	100,000
ZN-S	NAO DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
ZR-S	1000,000	1000,000	+1000,000		1000,000	1000,000	1000,000	700,000	300,000	1000,000
CU-AA	10,000	20,000	15,000	15,000	25,000	25,000	45,000	50,000	40,000	20,000
PE-AA	35,000	15,000	15,000	15,000	30,000	25,000	20,000	45,000	55,000	25,000
ZN-AA	40,000	35,000	35,000	35,000	75,000	65,000	110,000	140,000	140,000	140,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CD-AA										
TE-AA										
AU-AA	NAO DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-COL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SB-COL	-1,000	-1,000	NAO DET.	-1,000	NAO DET.	NAO DET.	-1,000	NAO DET.	NAO DET.	NAO DET.







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	SOLOS DE PERFIS HCF. C PINHEIRO C. DA ARVORE									
NUM. LAB. NUM. CAMPO CXCU-CCL MET PES CO-CCL MO-CCL W-COL P-CCL SF-CCL U-CCL TI-COL 2 HG-INS F-INS S-INS 2 C-INS 2 PH AU-P CFG AU-P ANL	JAD603 CK0419	JAD605 CK0421	JAD606 CK0421A	JAD606A CK0421A	JAD608 CK0423	JAD609 CK0424	JAD611 CK0426	JAD612 CK0427	JAD615 CK0429	JAD618 CK0431
	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000
	350,000	600,000	500,000	500,000	800,000	900,000	1200,000	1500,000	1600,000	500,000



SOLGS DE PERFIS HCR. C FINHEIRO C. CA ARVOPE

NUM. LAB. NUM. CAMPO CXCU-CCL MET PES CG-CCL MO-CCL W-COL P-COL SE-CCL U-CCL TI-COL % FG-INS F-INS S-INS % C-INS % PH AU-p CRG AU-P ANL	JAD620 CK0433	JAD622 CK0435	JAD624 CK0437	JAD626 CK0439	JAD628 CK0441	JAD630 CK0443	JAD632 CK0445	JAD634 CK0447	JAD636 CK0449	JAD638 CK0451
	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000
	600,000	1600,000	500,000	700,000	600,000	120,000	22500,000	1000,000	700,000	600,000

SOLOS DE PERFIS HOR. C PINHEIRO C. DA ARVORE

NUM. LAB.	JAD620	JAD622	JAD624	JAD626	JAD628	JAD630	JAD632	JAD634	JAD636	JAD638
NUM. CAMPO	CK0433	CK0435	CK0437	CK0439	CK0441	CK0443	CK0445	CK0447	CK0449	CK0451
AMB. ECTICO										

PARAMETROS ANALITICOS DE CAMPO

EH										
PF										
METAL TOTAL										
CODIF. LIVRE	A5111	A5121	A5131	A5141	A5151	A5161	A5171	A5181	A5191	A5201

PARAMETROS ANALITICOS

FE-S %	5,000	15,000	3,000	10,000	5,000	3,000	3,000	2,000	2,000	2,000
MG-S %	0,200	0,500	0,300	0,300	0,300	0,500	0,500	0,500	0,300	0,300
CA-S %	0,150	0,200	0,150	0,150	0,150	0,150	10,000	0,150	0,100	0,150
TI-S %	+1,000	0,700	0,700	0,500	0,500	0,500	1,000	0,300	0,300	0,500
MN-S	1500,000	1000,000	1000,000	1000,000	1000,000	1500,000	200,000	300,000	200,000	500,000
AG-S	NAD DET.	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	0,500	0,500	NAC DET.	NAC DET.
AS-S	NAC DET.	NAD DET.	NAC DET.	NAC DET.	NAC DET.	NAD DET.	NAD DET.	NAC DET.	NAC DET.	NAC DET.
AU-S	NAD DET.	NAD DET.	NAC DET.	NAC DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAC DET.	NAC DET.
B-S	20,000	50,000	10,000	10,000	10,000	20,000	15,000	15,000	10,000	50,000
BA-S	2000,000	1500,000	1500,000	2000,000	1500,000	1000,000	1500,000	700,000	300,000	500,000
BE-S	3,000	7,000	5,000	3,000	3,000	7,000	5,000	3,000	5,000	5,000
BI-S	-10,000	20,000	-10,000	-10,000	-10,000	10,000	-10,000	-10,000	-10,000	-10,000
CD-S	NAD DET.	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAC DET.	NAC DET.
CO-S	10,000	10,000	10,000	10,000	10,000	20,000	10,000	5,000	5,000	10,000
CR-S	20,000	10,000	10,000	10,000	15,000	15,000	10,000	10,000	10,000	15,000
CU-S	50,000	150,000	20,000	20,000	20,000	150,000	20,000	20,000	15,000	15,000
LA-S	150,000	500,000	100,000	150,000	100,000	70,000	200,000	50,000	50,000	50,000
MO-S	10,000	10,000	7,000	10,000	5,000	5,000	-5,000	-5,000	-5,000	-5,000
NE-S	50,000	30,000	50,000	30,000	30,000	50,000	30,000	30,000	30,000	50,000
NI-S	10,000	7,000	5,000	5,000	10,000	7,000	5,000	5,000	10,000	10,000
PE-S	50,000	50,000	30,000	30,000	50,000	70,000	30,000	50,000	30,000	30,000
SB-S	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAC DET.	NAC DET.
SC-S	15,000	20,000	10,000	20,000	15,000	15,000	15,000	10,000	5,000	5,000
SN-S	20,000	200,000	20,000	20,000	10,000	50,000	15,000	20,000	30,000	15,000
SR-S	100,000	100,000	NAC DET.	NAC DET.	NAD DET.	NAD DET.	100,000	NAD DET.	NAC DET.	NAC DET.
V-S	70,000	70,000	50,000	70,000	70,000	70,000	70,000	70,000	50,000	50,000
W-S	-50,000	-50,000	NAC DET.	NAC DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAC DET.	NAC DET.
Y-S	100,000	200,000	70,000	100,000	100,000	100,000	150,000	70,000	70,000	70,000
ZN-S	NAC DET.	-200,000	NAD DET.	NAC DET.	NAC DET.	NAC DET.	NAD DET.	NAD DET.	NAC DET.	NAC DET.
ZR-S	+1000,000	1000,000	700,000	700,000	700,000	500,000	1000,000	200,000	200,000	500,000
CU-AA	15,000	30,000	10,000	10,000	10,000	30,000	15,000	10,000	10,000	10,000
PE-AA	20,000	30,000	20,000	15,000	20,000	25,000	25,000	15,000	20,000	20,000
ZN-AA	35,000	30,000	25,000	20,000	30,000	20,000	45,000	20,000	25,000	20,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CD-AA										
TE-AA										
AU-AA	NAD DET.	NAD DET.	NAC DET.	NAC DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAC DET.	0,100
AS-COL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SB-COL	NAD DET.	-1,000	NAC DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	-1,000	-1,000	1,000





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LISTAGEM DE AMOSTRAS

03.02.76

FLA. UNICA

SISTEMA DE ESTATISTICA DE AMOSTRAGEM

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FOLHA DE CONTROLE - PROGRAMA PPGQM007

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AMOSTRAS LIDAS 78

AMOSTRAS IMPRESSAS 78

N. INICIAL DA PAGINA 1

N. FINAL DA PAGINA 24

N. DE AMOSTRA INICIAL

N. DE AMOSTRAS FINAL



RECHAS GRANITICAS DE PINHEIRO CERRO DA APVCRE

NUM. LAE. NUM. CAMPC AMB. BIOTICO	JAD105 ES0037	JAD106 ES0038	JAD107 ES0039	JAD108 ES0040	JAD109 ES0041	JAD110 ES0042	JAD111 ES0043	JAD112 ES0044	JAD113 ES0045	JAD114 ES0046
PARAMETROS ANALITICOS DE CAMPO										
EH PF METAL TOTAL CODIF. LIVRE	AR151	AR121	AR181	AR122	AR171	AR172	AR211	AP241	AP232	AP271
PARAMETROS ANALITICOS										
FE-S %	0,500	1,000	1,000	0,700	0,700	1,000	1,000	3,000	0,700	2,000
MG-S %	0,050	0,150	0,100	0,050	0,020	0,100	0,150	0,200	0,050	0,200
CA-S %	0,070	0,500	0,300	0,100	0,200	0,070	0,500	6,300	0,070	0,700
TI-S %	0,050	0,100	0,150	0,070	0,050	0,200	0,200	0,300	0,050	0,300
MN-S	50,000	300,000	300,000	50,000	100,000	300,000	300,000	300,000	20,000	300,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AS-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
AU-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
B-S	NAC DET.	200,000	20,000	20,000	20,000	NAC DET.	20,000	20,000	20,000	20,000
BA-S	150,000	500,000	200,000	100,000	30,000	70,000	300,000	700,000	50,000	500,000
BE-S	7,000	7,000	7,000	2,000	7,000	10,000	7,000	5,000	5,000	7,000
BI-S	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
CO-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CO-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	5,000	5,000	7,000	NAC DET.	5,000
CR-S	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
CU-S	-5,000	-5,000	-5,000	10,000	10,000	-5,000	5,000	-5,000	5,000	-5,000
LA-S	70,000	70,000	50,000	100,000	50,000	100,000	70,000	150,000	20,000	150,000
MO-S	NAO DET.	NAO DET.	NAO DET.	10,000	NAC DET.	NAO DET.	NAO DET.	NAO DET.	15,000	20,000
NB-S	10,000	10,000	10,000	10,000	10,000	10,000	10,000	15,000	15,000	10,000
NI-S	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	5,000	-5,000	-5,000
PB-S	15,000	30,000	50,000	50,000	30,000	10,000	20,000	30,000	30,000	30,000
SB-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SC-S	NAO DET.	5,000	NAC DET.	5,000	5,000	NAC DET.	5,000	7,000	NAC DET.	5,000
SN-S	NAC DET.	10,000	10,000	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SR-S	NAO DET.	100,000	NAO DET.	NAC DET.	NAO DET.	100,000	NAO DET.	100,000	NAC DET.	150,000
V-S	15,000	10,000	15,000	10,000	10,000	15,000	20,000	20,000	10,000	20,000
W-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
Y-S	20,000	50,000	50,000	70,000	30,000	50,000	50,000	50,000	70,000	150,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
ZR-S	300,000	300,000	200,000	200,000	30,000	300,000	200,000	300,000	50,000	300,000
CU-AA	-5,000	-5,000	-5,000	10,000	20,000	-5,000	5,000	-5,000	5,000	-5,000
PE-AA	5,000	10,000	20,000	10,000	15,000	5,000	15,000	10,000	5,000	10,000
ZN-AA	10,000	35,000	35,000	15,000	15,000	25,000	25,000	35,000	5,000	40,000
AG-AA	NAO DET.	-0,500	NAO DET.	NAC DET.	NAO DET.	NAC DET.	-0,500	-0,500	NAC DET.	-0,500
CO-AA										
NI-AA										
BI-AA										
CC-AA										
TE-AA										
AU-AA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AS-CCL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SB-CCL	NAO DET.	-1,000	NAC DET.	NAC DET.	NAC DET.	NAC DET.	-1,000	NAO DET.	NAC DET.	NAC DET.



ROCCHAS GRANITICAS DE PINHEIRO CERRO DA ARVORE

NUM. LAB.	JAC114A	JAD115	JAC116	JAC117	JAC118	JAC115	JAC120	JAD121	JAC122	JAC123
NUM. CAMPO	ES0046	ES0047	ES0048	ES0049	ES0050	ES0051	ES0052	ES0053	ES0054	ES0055
AMB. BICTICO										

PARAMETROS ANALITICOS DE CAMPO

EF	AR271	AR261	AR251	AP221	AP222	AR191	AR162	AR161	AF111	AR141
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PARAMETROS ANALITICOS

FE-S %	1,500	0,700	3,000	5,000	2,000	0,500	2,000	1,000	2,000
MG-S %	0,150	0,100	0,200	0,300	0,200	0,050	0,150	0,150	0,200
CA-S %	0,100	0,070	0,300	0,700	0,300	0,050	0,500	0,300	0,500
TI-S %	0,150	0,150	0,500	0,700	0,200	0,070	0,150	0,100	0,200
MN-S	300,000	100,000	1000,000	1000,000	300,000	50,000	300,000	300,000	500,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AL-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	10,000	10,000	NAO DET.	NAO DET.	30,000	NAO DET.	20,000	20,000	100,000
BA-S	300,000	300,000	1000,000	2000,000	500,000	100,000	300,000	300,000	300,000
BE-S	5,000	5,000	3,000	3,000	7,000	1,500	7,000	5,000	7,000
BI-S	-10,000	-10,000	-10,000	-10,000	200,000	100,000	30,000	1000,000	20,000
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	5,000	NAO DET.	NAO DET.	5,000	5,000	NAO DET.	NAO DET.	NAO DET.	5,000
CR-S	-10,000	-10,000	-10,000	-10,000	10,000	-10,000	10,000	-10,000	-10,000
CU-S	-5,000	7,000	-5,000	7,000	-5,000	-5,000	-5,000	-5,000	-5,000
LA-S	70,000	70,000	100,000	100,000	70,000	50,000	100,000	100,000	100,000
MO-S	NAO DET.	NAO DET.	10,000	10,000	NAO DET.	7,000	NAO DET.	NAO DET.	NAO DET.
NE-S	10,000	10,000	20,000	30,000	15,000	10,000	10,000	10,000	20,000
NI-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	5,000	NAO DET.	NAO DET.
PB-S	50,000	20,000	10,000	15,000	50,000	30,000	50,000	50,000	50,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	5,000	NAO DET.	15,000	20,000	5,000	NAO DET.	5,000	5,000	7,000
SN-S	10,000	NAO DET.	NAO DET.	NAO DET.	15,000	NAO DET.	15,000	15,000	15,000
SR-S	NAO DET.	NAO DET.	100,000	150,000	100,000	NAO DET.	100,000	NAO DET.	100,000
V-S	20,000	20,000	10,000	10,000	20,000	10,000	15,000	15,000	20,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	50,000	50,000	50,000	70,000	50,000	20,000	70,000	70,000	70,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	200,000	200,000	300,000	500,000	200,000	50,000	200,000	200,000	200,000
CU-AA	-5,000	-5,000	10,000	-5,000	5,000	-5,000	5,000	-5,000	-5,000
PE-AA	10,000	15,000	5,000	10,000	10,000	15,000	25,000	10,000	15,000
ZN-AA	40,000	30,000	15,000	65,000	75,000	30,000	5,000	35,000	60,000
AG-AA	-0,500	-0,500	NAO DET.	INTERFER.	INTERFER.	-0,500	NAO DET.	NAO DET.	-0,500
CO-AA									
NI-AA									
BI-AA									
CD-AA									
TE-AA									
AU-AA		NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-CCL		-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SB-COL	-1,000	-1,000	NAO DET.	NAO DET.	NAO DET.	-1,000	NAO DET.	-1,000	-1,000



RCCHAS GRANITICAS DE PINHEIRO CEFRO DA ARVORE

NUM. LAB.	JAC124	JAD125	JAD126	JAD127	JAD128	JAC129	JAC130	JAD12CA	JAD131	JAF132
NUM. CAMPO	ES0056	ES0057	ES0058	ES0059	ES0060	ES0061	ES0062	ES0062A	ES0063	ES0064
C. CLSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300
PROCEDECENCIA	AD	AD	AC	AD	AC	AC	AD	AD	AC	AC
BASE CART.	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI
BASE CART.	1	1	1	1	13	13	13	13	13	13
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	329300	329300	330450	328000	327950	327950	328050	328050	329150	331700
UTM - LONG.	06620300	06620300	06621600	06621500	06624850	06624850	06626250	06626250	06626250	06627700
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	R	R	R	R	R	R	R	R	R	F
TIPC AMOST.	A	A	B	A	A	A	B	B	A	A
FNTE AMOST.	A	A	A	A	A	A	A	A	A	A
ROCHA REG.	D	D	D	D	D	C	D	D	D	C
ID. GEOLG.	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
MAT. COLET.	GRNT	GRNT	GRNT	GRNT	GRNT	GRNT	GRNT	GRNT	GRNT	GRNT
PLUVIOSIDADE										
TIPO VEGET.										
SIT. TCPCG.										
SIT. AMOST.										
ALTITUDE										
PROF. AMOST.										
FORMA IGNEA										
SIT. ESTRUT.							B	B	B	B
MATRIZ PREC.										
GRAU INTEMP.	B	B	B	A	B	B	B	B	B	C
TIFO ALTER.										
TIPC MINER.										
DEP. CCCCR.										
LARGURA RIO										
PROFUND. RIO										
VELOC. CCRR.										
NIVEL AGUA										
AREA DRENAG.										
TURB. AGLA										
POS. CCLETA										
COR AGLA										
GRAU ARREC.										
VCL. CRICIN.										
PESO CCNC.										
GRANULOMET.										
TEXT. SEDIM.										
COR SEC./SL.										
HORIZ. SOLO										
TIPO SOLO										



ROCAS GRANITICAS DE FIAHEIRO CERRO DA AFORE

NUM. LAB. NUM. CAMPO CXCUCCL MET PES CO-CCL MO-CCL W-COL P-CCL SE-CCL U-CCL TI-COL 2 HG-INS F-INS S-INS 2 C-INS 2 PH AU-P CRG AU-P ANL	JAD114A ES0046	JAD115 ES0047	JAC116 ES0048	JAC117 ES0049	JAC118 ES0050	JAC119 ES0051	JAC120 ES0052	JAC121 ES0053	JAC122 ES0054	JAC123 ES0055
	NAO DET.	NAO DET.	NAO DET.	80,000	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
	1700,000	275,000	225,000	600,000	900,000	250,000	120,000	800,000	1200,000	1000,000

ROCCHAS GRANITICAS DE FINHEIRO CERRO DA APVORE

NUM. LAB. NUM. CAMPO CXCU-CCL MET PES CO-CCL MO-CCL W-COL P-COL SE-CCL U-COL TI-COL % HG-INS F-INS S-INS % C-INS % PH AU-P CRG AU-P ANL	JAD124 ES0056	JAD125 ES0057	JAD126 ESCC58	JAD127 ES0059	JAD128 ES0060	JAD129 ES0061	JAD120 ES0062	JAD120A ESCC62A	JAD131 ES0063	JAD132 ES0064
	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	20,000		NAO DET.	NAC DET.
	900,000	800,000	400,000	1900,000	1500,000	225,000	800,000		450,000	475,000

ROCCHAS GRANITICAS DE FINHEIRO CERRO DA AVOPE

NUM. LAE. NUM. CAMPO AMB. BIOTICC	JAC124 ES0056	JAC125 ES0057	JAC126 ES0058	JAC127 ES0059	JAC128 ES0060	JAC129 ES0061	JAC130 ES0062	JAC131A ES0062A	JAC131 FS0063	JAC132 FS0064
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PARAMETROS ANALITICOS DE CAMPO

EH PF METAL TOTAL CODIF. LIVRE	AR101	AP102	AR061	AP071	AP041	AR042	ARC11	ARG11	AP012	AP021
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PARAMETROS ANALITICOS

FE-S %	2,000	0,700	1,500	1,500	1,500	1,000	1,000		1,000	0,700
MG-S %	0,150	0,100	0,050	0,100	0,100	0,070	0,070		0,050	0,050
CA-S %	0,300	0,300	0,070	0,300	0,500	0,200	0,500		0,300	0,300
TI-S %	0,200	0,100	0,100	0,150	0,200	0,100	0,150		0,150	0,070
MN-S	500,000	200,000	100,000	200,000	500,000	200,000	200,000		200,000	200,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.
B-S	20,000	50,000	50,000	30,000	70,000	50,000	70,000		50,000	20,000
BA-S	300,000	500,000	20,000	200,000	300,000	200,000	300,000		150,000	200,000
BE-S	7,000	7,000	10,000	5,000	7,000	5,000	7,000		7,000	5,000
BI-S	100,000	10,000	-10,000	10,000	NAO DET.	NAO DET.	NAO DET.		-10,000	-10,000
CC-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.
CO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	5,000	NAO DET.	NAO DET.		NAO DET.	NAO DET.
CR-S	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000		-10,000	-10,000
CU-S	-5,000	-5,000	-5,000	-5,000	10,000	7,000	10,000		20,000	15,000
LA-S	100,000	70,000	70,000	700,000	70,000	50,000	70,000		70,000	50,000
MO-S	5,000	5,000	5,000	7,000	NAO DET.	NAO DET.	-5,000		NAO DET.	NAO DET.
NB-S	15,000	10,000	20,000	10,000	10,000	-10,000	10,000		10,000	-10,000
NI-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.
PE-S	30,000	30,000	30,000	30,000	50,000	50,000	100,000		50,000	50,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.
SC-S	7,000	5,000	5,000	5,000	5,000	NAO DET.	5,000		5,000	NAO DET.
SN-S	15,000	15,000	15,000	NAO DET.	NAO DET.	NAO DET.	20,000		NAO DET.	NAO DET.
SR-S	100,000	100,000	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.
V-S	20,000	15,000	10,000	10,000	10,000	10,000	10,000		10,000	10,000
W-S	NAO DET.	NAO DET.	-50,000	-50,000	NAO DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.
Y-S	70,000	50,000	100,000	200,000	70,000	30,000	50,000		30,000	30,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.
ZR-S	300,000	100,000	300,000	200,000	200,000	100,000	200,000		300,000	200,000
CU-AA	5,000	5,000	-5,000	-5,000	-5,000	5,000	5,000		-5,000	5,000
PE-AA	15,000	15,000	15,000	15,000	15,000	20,000	25,000		15,000	15,000
ZN-AA	50,000	30,000	15,000	40,000	50,000	40,000	55,000		30,000	25,000
AG-AA	-0,500	-0,500	NAO DET.	-0,500	-0,500	-0,500	-0,500		-0,500	-0,500
CO-AA										
NI-AA										
BI-AA										
CD-AA										
TE-AA										
AU-AA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.
AS-COL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	40,000	40,000	-10,000	-10,000
SE-COL	NAO DET.	NAO DET.	NAO DET.	NAO DET.	-1,000	-1,000	NAO DET.		-1,000	NAO DET.



ROCHAS GRANITICAS DE PINHEIRO CEPRO DA ARVORE

NUM. LAB.	JAC133	JAC134	JAC135	JAC136	JAC137	JAC138	JAC139	JAC139A	JAC140	JAC141
NUM. CAMPO	ES0065	ES0066	ES0067	ES0068	ES0069	ES0070	ES0071	FSCC71	ES0072	ES0073
AMB. BIOTICO										

PARAMETROS ANALITICOS DE CAMPO

EH										
PF										
METAL TOTAL										
COCIF. LIVRE	AR031	AP061	AR051	AP082	AR091	AR131	AR202	AR202	AR231	AR201

PARAMETROS ANALITICOS

FE-S %	0,700	0,700	2,000	2,000	0,700	1,500	2,000		0,700	2,000
MG-S %	0,050	0,100	0,050	0,150	0,020	0,150	0,150		0,150	0,150
CA-S %	0,300	0,500	0,300	0,700	0,050	0,500	0,700		0,500	0,500
TI-S %	0,100	0,100	0,200	0,300	0,070	0,200	0,200		0,150	0,200
MN-S	150,000	200,000	300,000	500,000	200,000	300,000	500,000		300,000	300,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.
AL-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.
B-S	30,000	30,000	10,000	50,000	-10,000	10,000	20,000		10,000	10,000
BA-S	300,000	200,000	200,000	500,000	150,000	300,000	200,000		300,000	500,000
BE-S	5,000	7,000	10,000	7,000	7,000	7,000	7,000		7,000	7,000
BI-S	-10,000	-10,000	-10,000	-10,000	10,000	-10,000	-10,000		NAO DET.	NAO DET.
CC-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.
CO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	5,000	5,000		NAO DET.	5,000
CR-S	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000		-10,000	-10,000
CU-S	15,000	5,000	50,000	5,000	10,000	10,000	5,000		7,000	15,000
LA-S	100,000	200,000	150,000	100,000	100,000	100,000	150,000		70,000	70,000
MO-S	10,000	NAO DET.	10,000	NAO DET.	NAO DET.	5,000	NAO DET.		NAO DET.	NAO DET.
NE-S	-10,000	-10,000	15,000	10,000	-10,000	-10,000	10,000		-10,000	10,000
NI-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.
PE-S	50,000	50,000	100,000	30,000	20,000	50,000	70,000		50,000	50,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.
SC-S	NAO DET.	5,000	7,000	10,000	NAO DET.	5,000	5,000		NAO DET.	5,000
SN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	10,000		10,000	10,000
SR-S	NAO DET.	NAO DET.	NAO DET.	100,000	NAO DET.	100,000	NAO DET.		NAO DET.	100,000
V-S	10,000	10,000	15,000	10,000	15,000	15,000	10,000		15,000	15,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.
Y-S	50,000	70,000	70,000	50,000	50,000	50,000	70,000		30,000	70,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.
ZR-S	100,000	100,000	300,000	200,000	300,000	300,000	300,000		150,000	100,000
CU-AA	-5,000	-5,000	-5,000	-5,000	-5,000	5,000	-5,000	-5,000	5,000	5,000
PE-AA	10,000	15,000	20,000	10,000	10,000	15,000	15,000	15,000	10,000	10,000
ZN-AA	25,000	40,000	30,000	45,000	25,000	30,000	30,000	30,000	30,000	30,000
AG-AA	NAO DET.	-0,500	-0,500	-0,500	NAO DET.	-0,500	-0,500	-0,500	-0,500	-0,500
CO-AA										
NI-AA										
BT-AA										
CD-AA										
TE-AA										
AU-AA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.
AS-CCL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000		-10,000	-10,000
SB-CCL	-1,000	NAO DET.	NAO DET.	-1,000	NAO DET.	NAO DET.	-1,000	-1,000	NAO DET.	-1,000







ROCCHAS GRANITICAS DE PINHEIRO CERRO DA ARVORE

NUM. LAB. NUM. CAMPO CXCU-CCL MET PES CO-COL MO-CCL W-COL P-COL SF-CCL U-COL TI-CCL % HG-INS F-INS S-INS % C-INS % PH AU-P CFG AU-P ANL	JAD133 ES0065	JAD134 ES0066	JAD135 ES0067	JAD136 ES0068	JAD137 ES0069	JAD138 ES0070	JAD139 ES0071	JAD139A ES0071	JAD140 ES0072	JAD141 ES0073
	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
	700,000	1800,000	1200,000	1100,000	50,000	1000,000	1100,000	1100,000	900,000	600,000

RECHAS GRANITICAS DE PINHEIRO CERRO DA ARVORE

NUM. LAB. NUM. CAMPO CXCU-CCL MET PES CO-CCL MO-CCL W-COL P-CCL SE-CCL U-CCL TI-COL % FG-INS F-INS S-INS % C-INS % PH AU-P CRG AU-P ANL	JAD142 ES0074	JAD143 ES0075	JAD144 ES0076	JAD145 ES0077	JAD146 ES0078	JAD147 ES0079	JAD148 ES0080	JAD149 ES0081	JAD150 ES0082	JAD151 ES0083
	40,000	20,000	NÃO DET.	40,000	20,000	20,000	NÃO DET.	20,000	20,000	20,000
	600,000	900,000	130,000	900,000	900,000	700,000	375,000	1400,000	300,000	500,000





ROCAS GRANITICAS DE PINHEIRO CERRO DA APVORE

NUM. LAB. NUM. CAMPO AMB. BIOTICO	JAC152 ES0084	JAC154 ES0089	JAC155 ES0090	JAC156 ES0091	JAC157 ES0092	JAC158 ES0093	JAC159 ES0637A	JAC160 ESCC46A	JAC161 ES062A	JAC162 FS0069
PARAMETROS ANALITICOS DE CAMPO										
EH										
PH										
METAL TOTAL										
CODIF. LIVRE	AR381	AR401	AR411	AR412	AR421	AR431	AR153	AR273	AR013	AR093
PARAMETROS ANALITICOS										
FE-S %	2,000	1,000	1,000	1,000	0,700	1,000	0,500	1,500	0,700	0,700
MG-S %	0,150	0,100	0,100	0,100	0,050	0,050	0,050	0,200	0,050	0,020
CA-S %	0,500	0,200	0,070	0,050	0,050	0,050	0,050	0,300	0,200	0,050
TI-S %	0,200	0,100	0,100	0,100	0,100	0,150	0,070	0,200	0,100	0,100
MV-S	500,000	500,000	200,000	200,000	100,000	300,000	50,000	300,000	200,000	200,000
AG-S	NAD DET.	1,000	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAC DET.	NAC DET.
AS-S	NAD DET.	NAD DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAD DET.	NAD DET.	NAC DET.	NAC DET.
AU-S	NAD DET.	NAD DET.	NAC DET.	NAC DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAC DET.	NAC DET.
B-S	20,000	70,000	30,000	30,000	50,000	20,000	NAC DET.	20,000	70,000	NAC DET.
BA-S	150,000	100,000	300,000	300,000	300,000	300,000	150,000	500,000	200,000	200,000
BE-S	5,000	5,000	5,000	5,000	3,000	3,000	5,000	7,000	5,000	7,000
BI-S	-10,000	NAD DET.	NAC DET.	NAC DET.	NAD DET.	NAD DET.	NAD DET.	10,000	-10,000	-10,000
CD-S	NAD DET.	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAC DET.	NAC DET.
CO-S	5,000	NAD DET.	NAC DET.	NAC DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAC DET.	NAC DET.
CR-S	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
CU-S	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000	5,000	5,000
LA-S	100,000	100,000	100,000	100,000	20,000	70,000	70,000	100,000	70,000	70,000
MO-S	NAD DET.	NAD DET.	NAD DET.	5,000	NAD DET.	NAD DET.	NAD DET.	10,000	NAC DET.	NAC DET.
NB-S	10,000	15,000	10,000	10,000	10,000	15,000	-10,000	10,000	10,000	-10,000
NI-S	NAD DET.	NAD DET.	NAC DET.	NAC DET.	NAC DET.	NAD DET.	NAD DET.	NAD DET.	NAC DET.	NAC DET.
PB-S	50,000	300,000	100,000	50,000	150,000	50,000	10,000	50,000	70,000	30,000
SB-S	NAC DET.	NAD DET.	NAC DET.	NAC DET.	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAC DET.	NAC DET.
SC-S	5,000	5,000	5,000	5,000	5,000	5,000	NAD DET.	NAD DET.	NAC DET.	NAC DET.
SN-S	10,000	10,000	15,000	10,000	10,000	-10,000	NAC DET.	-10,000	20,000	-10,000
SR-S	NAD DET.	NAD DET.	NAC DET.	NAC DET.	NAD DET.	NAD DET.	NAD DET.	100,000	NAC DET.	NAC DET.
V-S	10,000	10,000	10,000	10,000	10,000	10,000	15,000	15,000	10,000	10,000
W-S	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAD DET.	NAC DET.	NAC DET.
Y-S	70,000	50,000	50,000	50,000	50,000	70,000	20,000	100,000	30,000	30,000
ZN-S	NAC DET.	200,000	NAD DET.	NAC DET.	NAC DET.	NAD DET.	NAD DET.	NAD DET.	NAC DET.	NAC DET.
ZR-S	300,000	300,000	200,000	200,000	300,000	300,000	300,000	200,000	200,000	200,000
CU-AA	-5,000	5,000	-5,000	-5,000	5,000	-5,000	-5,000	-5,000	5,000	-5,000
PE-AA	15,000	400,000	45,000	35,000	70,000	30,000	10,000	10,000	25,000	10,000
ZN-AA	40,000	200,000	25,000	25,000	65,000	20,000	10,000	40,000		25,000
AG-AA	-0,500	INTERFER.	-0,500	INTERFER.	-0,500	-0,500	-0,500	INTERFER.	-0,500	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CC-AA										
TE-AA										
AU-AA	NAD DET.	NAD DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAD DET.	NAD DET.	NAC DET.	NAC DET.
AS-COL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	20,000	-10,000
SB-CCL	-1,000	-1,000	-1,000	NAD DET.	NAC DET.	-1,000	-1,000	-1,000	-1,000	-1,000

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S E A G

PROJETO - LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CLSTO - 1533.300

ROCHAS GRANITICAS DE PINHEIRO CERRO DA AFVORE

NUM. LAB. NUM. CAMPO CXCU-CCL MET PES CO-CCL MO-CCL W-COL P-CGL SE-CCL U-CCL TI-COL % HG-INS F-INS S-INS % C-INS % PH AU-P CRG AU-P ANL	JAD152 ES0084	JAD154 ES0089	JAD155 ES0090	JAD156 ES0091	JAD157 ES0092	JAD158 ES0093	JAD159 ES0037A	JAD160 ESCC46A	JAD161 ES0062A	JAD162 ES0069
	20,000	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	20,000	20,000	NAC DET.
	900,000	300,000	225,000	250,000	225,000	170,000	130,000	1500,000	900,000	50,000



ROCHAS GRANITICAS DE PINHEIRO CERRO DA ARVORE

NUM. LAB.	JAD163	JAD163A	JAD678	JAD679	JAD680	JAD681	JAD682	JAD683	JAD684	JAD685
NUM. CAMPO	ES0078A	ES0078A	ES0095	ES0096	ES0097	ES0098	ES0099	ES0100	ES0101	ES0102
AMB. BIOTICO										

PARAMETROS ANALITICOS DE CAMPO

EH										
PH										
METAL TOTAL										
CONDIF. LIVRE	AR323	AR323	AR322	AR382	AR441	AR442	AR451	AR461	AR471	AR481

PARAMETROS ANALITICOS

FE-S %	2,000		3,000	1,500	0,700	0,700	0,700	1,500	0,500	0,500
MG-S %	0,150		0,200	0,100	0,050	0,050	0,100	0,070	0,050	0,100
CA-S %	-0,050		-0,050	0,200	0,200	0,050	1,500	0,100	10,000	2,000
TI-S %	0,200		0,200	0,150	0,020	0,010	0,070	0,050	0,030	0,050
MN-S	500,000		300,000	200,000	100,000	100,000	50,000	150,000	150,000	150,000
AG-S	NAC DET.		NAC DET.	0,500	0,700	0,500	1,000	NAC DET.	0,500	0,700
AS-S	NAC DET.		NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AU-S	NAC DET.		NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
B-S	50,000		50,000	20,000	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	10,000
BA-S	150,000		200,000	150,000	100,000	100,000	200,000	150,000	100,000	300,000
BE-S	10,000		10,000	5,000	2,000	1,500	2,000	2,000	2,000	2,000
BI-S	30,000		10,000	-10,000	10,000	-10,000	-10,000	-10,000	-10,000	-10,000
CC-S	NAC DET.		NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
CD-S	NAC DET.		NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
CR-S	-10,000		-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
CU-S	100,000		70,000	-5,000	5,000	-5,000	5,000	-5,000	5,000	10,000
LA-S	70,000		70,000	50,000	NAC DET.	NAC DET.	50,000	NAC DET.	20,000	NAC DET.
MO-S	5,000		10,000	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
NE-S	15,000		20,000	10,000	10,000	10,000	20,000	20,000	-10,000	20,000
NI-S	NAC DET.		NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
PB-S	30,000		30,000	30,000	10,000	10,000	10,000	15,000	15,000	20,000
SB-S	NAC DET.		NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
SC-S	5,000		5,000	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
SN-S	+1000,000		500,000	-10,000	-10,000	-10,000	10,000	15,000	10,000	10,000
SR-S	NAC DET.		NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
V-S	20,000		30,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
W-S	50,000		-50,000	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
Y-S	20,000		20,000	50,000	50,000	50,000	50,000	50,000	70,000	70,000
ZN-S	NAC DET.		NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
ZR-S	200,000		200,000	200,000	50,000	50,000	70,000	20,000	30,000	70,000
CU-AA	75,000	75,000	100,000	-5,000	5,000	5,000	15,000	5,000	10,000	15,000
PE-AA	20,000	20,000	25,000	15,000	10,000	5,000	5,000	5,000	INTERFER.	INTERFER.
ZN-AA	10,000	10,000	25,000	30,000	5,000	5,000	30,000	5,000	15,000	10,000
AG-AA	-0,500	-0,500	NAC DET.	NAC DET.	NAC DET.	NAC DET.	INTERFER.	NAC DET.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CD-AA										
TE-AA										
AU-AA	NAC DET.		NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AS-CCL	20,000	20,000	10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SE-CCL	-1,000	-1,000	NAC DET.	-1,000	-1,000	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.



## ROCHAS GRANITICAS DE PINHEIRO CERRO DA ARVORE

NUM. LAB.	JAC686	JAC687	JAC687A	JAC688	JAC714	JAC715	JAC716	JAC717
NUM. CAMPC	ES0104	ES0105	ES0105	ES0106	ES0095A	ES0097A	ES0101A	ES0102A
AMB. BIOTICO								

## PARAMETROS ANALITICOS DE CAMPO

EH								
PH								
METAL TOTAL								
CODIF. LIVRE	AR491	AP501	AR501	AR511	AR323	AR442	AR473	AR483

## PARAMETROS ANALITICOS

FE-S %	1,000	1,000		0,500	5,000	1,000	1,000	0,500
MG-S %	0,070	0,070		0,100	0,300	0,050	0,100	0,100
CA-S %	0,050	0,150		0,050	-0,050	0,500	10,000	3,000
TI-S %	0,030	0,100		0,050	0,300	0,010	0,030	0,070
MN-S	150,000	20,000		200,000	500,000	100,000	150,000	200,000
AG-S	0,500	0,500		0,500	NAO DET.	2,000	0,500	0,700
AS-S	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	10,000	10,000		NAO DET.	70,000	NAO DET.	NAO DET.	20,000
BA-S	300,000	300,000		100,000	200,000	100,000	150,000	300,000
BE-S	2,000	2,000		5,000	20,000	3,000	2,000	3,000
BI-S	20,000	-10,000		-10,000	10,000	10,000	-10,000	-10,000
CD-S	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CR-S	15,000	10,000		-10,000	-10,000	-10,000	-10,000	-10,000
CU-S	10,000	-5,000		-5,000	100,000	5,000	10,000	10,000
LA-S	20,000	20,000		20,000	70,000	NAO DET.	20,000	NAO DET.
MO-S	NAO DET.	NAO DET.		NAO DET.	10,000	NAO DET.	NAO DET.	NAO DET.
NB-S	20,000	10,000		15,000	30,000	20,000	10,000	20,000
NI-S	5,000	NAO DET.		NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
PB-S	50,000	20,000		10,000	30,000	15,000	20,000	20,000
SB-S	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	NAO DET.	NAO DET.		NAO DET.	5,000	NAO DET.	NAO DET.	NAO DET.
SN-S	10,000	NAO DET.		NAO DET.	500,000	-10,000	15,000	-10,000
SR-S	100,000	NAO DET.		NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
V-S	20,000	20,000		20,000	30,000	10,000	10,000	10,000
W-S	NAO DET.	NAO DET.		NAO DET.	-50,000	NAO DET.	NAO DET.	NAO DET.
Y-S	30,000	30,000		30,000	20,000	50,000	100,000	70,000
ZN-S	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	70,000	100,000		70,000	300,000	50,000	50,000	70,000
CU-AA	15,000	5,000	5,000	10,000	100,000	5,000	10,000	10,000
PB-AA	35,000	5,000	5,000	5,000	20,000	10,000	INTERFER.	INTERFER.
ZN-AA	15,000	5,000	5,000	10,000	25,000	5,000	10,000	10,000
AG-AA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA								
NI-AA								
BI-AA								
CE-AA								
TE-AA								
AU-AA	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-COL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SB-COL	NAO DET.	NAO DET.	NAO DET.	NAO DET.	-1,000	-1,000	-1,000	-1,000







## Área de Campinas-Figueiras

Sedimentos de corrente de granitos

Sedimentos de corrente de xistos

Concentrados de bateia de rochas graníticas

Concentrados de bateia de rochas xistosas

Solos de *background* - horizonte A de granitos

Solos de *background* - horizonte C de granitos

Solos de *background* - horizonte A de xistos

Solos de *background* - horizonte C de xistos

Solos de perfis - horizonte A de granitos

Solos de perfis - horizonte C de granitos

Solos de perfis - horizonte A de xistos

Solos de perfis - horizonte C de xistos

Rochas graníticas

Rochas - xistos e filitos



## SISTEMA DE ESTATISTICA DE AMOSTRAGEM

FCLPA DE CONTROLE - PROGRAMA PRGQPC07

\*\*\* OPCOES \*\*\*

ARQUIVO

0000000000

FS193130

AMOSTRAS LIDAS	37
AMOSTRAS IMPRESSAS	37
N. INICIAL DA PAGINA	1
N. FINAL DA PAGINA	12
N. DE AMOSTRA INICIAL	
N. DE AMOSTRAS FINAL	





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PROJETO - LEVANTAMENTO GEOQUIMICO DO PGS

CENTRO DE CUSTO - 1533.300

SEDIMENTOS DE CORRENTE DE GRANITOS DE CAMPINAS

NUM. LAB.	JAC906	JAC907	JAC908	JAC909	JAC910	JAC911	JAC912	JAC913	JAC914	JAC915
NUM. CAMPO	CG0038	CG0039	CG0041	CG0043	CG0044	CG0046	CG0048	CG0049	CG0051	CG0053
AMB. ECTICO										

PARAMETROS ANALITICOS DE CAMPO

EF	PH	METAL TOTAL	COEF. LIVRE	FS271	FS281	FS291	FS301	FS302	FS311	FS321	FS331	FS341	FS351
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PARAMETROS ANALITICOS

FF-S	2,000	1,500	10,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	10,000	5,000	
MG-S	0,300	0,200	1,500	0,700	0,700	0,500	0,700	0,500	0,500	0,500	1,500	0,500	
CA-S	0,300	0,300	0,200	0,300	0,300	0,200	0,300	0,200	0,500	0,500	0,150	0,500	
TI-S	0,500	0,200	1,000	1,000	1,000	1,000	1,000	+1,000	1,000	0,700	1,000	1,000	
MN-S	700,000	500,000	700,000	500,000	500,000	1000,000	700,000	500,000	500,000	500,000	500,000	1000,000	
AG-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	
AS-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	
AL-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	
B-S	700,000	200,000	+2000,000	+2000,000	+2000,000	2000,000	+2000,000	+2000,000	+2000,000	+2000,000	500,000	1000,000	
BA-S	700,000	300,000	1000,000	1000,000	1000,000	1000,000	1000,000	1000,000	1000,000	1000,000	2000,000	2000,000	
BE-S	100,000	70,000	50,000	70,000	70,000	70,000	70,000	70,000	70,000	100,000	50,000	30,000	
BI-S	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	
CE-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	
CO-S	10,000	5,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	30,000	20,000	
CR-S	200,000	20,000	200,000	100,000	150,000	100,000	150,000	70,000	70,000	70,000	70,000	70,000	
CL-S	5,000	-5,000	20,000	5,000	15,000	15,000	10,000	5,000	15,000	10,000	15,000	10,000	
LA-S	NAC DET.	NAC DET.	70,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	70,000	50,000	
MO-S	NAC DET.	NAC DET.	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	NAC DET.	NAC DET.	
NE-S	20,000	10,000	20,000	20,000	30,000	30,000	20,000	20,000	20,000	20,000	30,000	30,000	
NI-S	15,000	5,000	50,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	30,000	20,000	
PE-S	100,000	100,000	30,000	30,000	50,000	50,000	50,000	50,000	50,000	30,000	100,000	50,000	
SE-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	
SC-S	5,000	5,000	15,000	10,000	15,000	20,000	10,000	10,000	10,000	10,000	20,000	15,000	
SN-S	50,000	30,000	200,000	100,000	300,000	300,000	200,000	30,000	30,000	200,000	15,000	15,000	
SR-S	100,000	NAC DET.	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	150,000	
V-S	50,000	30,000	100,000	100,000	100,000	150,000	100,000	70,000	100,000	100,000	100,000	100,000	
W-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	
Y-S	20,000	20,000	30,000	20,000	30,000	50,000	20,000	20,000	20,000	50,000	50,000	50,000	
ZN-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	
ZR-S	300,000	200,000	100,000	300,000	500,000	700,000	300,000	300,000	700,000	700,000	700,000	700,000	
CU-AA	5,000	-5,000	15,000	5,000	10,000	10,000	5,000	5,000	5,000	10,000	5,000	5,000	
PE-AA	15,000	15,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	25,000	15,000	
ZN-AA	15,000	15,000	25,000	15,000	20,000	35,000	20,000	25,000	25,000	65,000	30,000	30,000	
AG-AA	INTERFER.	INTERFER.	INTERFER.	NAC DET.	NAC DET.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	
CO-AA													
NI-AA													
BI-AA													
CC-AA													
TF-AA													
AU-AA	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	
AS-CC	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	
SP-CC	-1,000	-1,000	NAC DET.	NAC DET.	NAC DET.	-1,000	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	

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PROJETO LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

SEDIMENTOS DE CORRENTE DE GRANITOS DE CAMPINAS

NUM. LAB.	JACS15A	JACS16	JACS22	JACS23	JAC924	JAC925	JACS31	JACS32	JACS33	JACS34
NUM. CAMPO	CG0053	CG0055	CG0065	CG0069	CG0070	CG0071	CG0080	CG0081	CG0082	CG0083
AMB. BIOTICO										

PARAMETROS ANALITICOS DE CAMPO

EH										
PH										
METAL TOTAL										
COCIF. LIVRE	FS351	FS361	FS411	FS431	FS432	FS441	FS451	FS452	FS501	FS511

PARAMETROS ANALITICOS

FF-S %		3,000	2,000	2,000	2,000	2,000	1,500	1,500	2,000	1,500
MG-S %		0,700	0,200	0,300	0,200	0,500	0,200	0,300	0,200	0,300
CA-S %		0,300	0,200	0,200	0,200	0,300	0,200	0,200	0,200	0,200
TI-S %		0,700	0,500	0,500	0,700	0,500	0,300	0,500	0,300	0,200
MN-S		500,000	300,000	500,000	500,000	500,000	500,000	500,000	700,000	1000,000
AG-S		NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AS-S		NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AL-S		NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
B-S		+2000,000	700,000	500,000	500,000	+2000,000	1000,000	2000,000	1000,000	2000,000
BA-S		1500,000	700,000	500,000	700,000	500,000	200,000	200,000	300,000	300,000
BE-S		30,000	70,000	50,000	70,000	150,000	70,000	150,000	100,000	70,000
BI-S		-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
CO-S		NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CG-S		15,000	10,000	10,000	5,000	10,000	10,000	10,000	10,000	5,000
CR-S		50,000	70,000	50,000	100,000	50,000	30,000	30,000	50,000	50,000
CU-S		5,000	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000
LA-S		50,000	20,000	20,000	20,000	20,000	50,000	20,000	20,000	NAC DET.
MO-S		NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
NE-S		20,000	10,000	10,000	20,000	10,000	10,000	10,000	10,000	-10,000
NI-S		15,000	10,000	10,000	7,000	15,000	5,000	10,000	10,000	10,000
PE-S		50,000	70,000	50,000	70,000	30,000	50,000	50,000	50,000	30,000
SE-S		NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SC-S		10,000	5,000	5,000	5,000	10,000	5,000	5,000	5,000	NAC DET.
SN-S		50,000	15,000	15,000	15,000	15,000	15,000	15,000	50,000	15,000
SR-S		150,000	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
V-S		100,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	30,000
W-S		NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
Y-S		50,000	20,000	20,000	20,000	30,000	20,000	20,000	20,000	10,000
ZN-S		NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	-200,000	NAO DET.	NAC DET.	NAC DET.
ZR-S		200,000	500,000	100,000	300,000	200,000	200,000	100,000	100,000	70,000
CU-AA	5,000	5,000	-5,000	-5,000	-5,000	5,000	-5,000	-5,000	5,000	-5,000
PE-AA	15,000	15,000	10,000	15,000	15,000	10,000	15,000	10,000	15,000	10,000
ZN-AA	30,000	30,000	10,000	20,000	15,000	15,000	10,000	10,000	10,000	10,000
AG-AA	INTERFER.	INTERFER.	NAO DET.	NAC DET.	INTERFER.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CO-AA										
NI-AA										
BI-AA										
CC-AA										
TE-AA										
AU-AA		NAO DET.	NAO DET.	NAC DET.	INSUFIC.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AS-CCL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SP-CCL	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.



S E A G

PROJETO - LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

SECIMENTOS DE CORRENTE DE GRANITOS DE CAMPINAS

NUM. LAB.	JAC915A	JAC916	JAC922	JAC923	JAC924	JAC925	JAC931	JAC932	JAC933	JAC934
NUM. CAMPO	CG0053	CG0055	CG0065	CG0069	CG0070	CG0071	CG0080	CG0081	CG0082	CG0083
C. CUSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CUSTO	300	300	300	300	300	300	300	300	300	300
PRECISEZINIA	AD	AD	AD	AD	AD	AD	AD	AD	AD	AD
PASE CART.	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI
PASE CART.	3	2	3	3	3	3	2	3	3	3
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	09/75	09/75	09/75	09/75	09/75	09/75	09/75	09/75	09/75	09/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	313560	313560	317080	318970	318970	318860	317560	317560	317700	317870
UTM - LONG.	06581770	06581900	06581950	06581610	06581610	06584250	06584500	06584500	06585000	06585400
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REC.	S	S	S	S	S	S	S	S	S	S
IC. (ECLCC)										
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	D	D	C	D	D	C	B	B	B	B
TIPO VEGET.	E	E	E	E	E	E	D	C	D	C
SIT. TOPOG.	A	A	C	B	B	A	A	A	A	A
SIT. AMOST.	C	C	C	B	B	C	B	B	B	B
ALTITUDE										
PROF. AMOST.										
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PFC.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEF. CCCOR.										
LARGURA RIC	3	7	2	3	3	2	3	3	4	4
PROFUND. PIO	0,6	0,6	0,5	0,4	0,3	0,2	0,4	0,3	0,3	0,3
VELOC. CORR.	2	2	1	3	2	2	2	2	2	2
NIVEL ACIA	2	2	2	3	3	2	2	2	2	2
AREA DEFENAG.	1	1	1	1	1	1	1	1	1	1
TURB. AGUA	1	1	0	0	0	0	C	0	0	0
PCS. COLETA	C	C	C	C	E	C	C	C	C	C
COR ACIA	C	A	A	A	A	A	A	A	A	A
GRAU ARRED.	C	B	C	C	C	C	B	B	B	B
VOL. CRICIN.										
PESO CONC.										
GRANULOMET.										
TEXT. SEDIM.	82	91	91	91	91	82	91	91	91	91
COR SEC./SL.										
HORIZ. SOLO										
TIPO SOLO										

S E A G

PROJETO LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

SEDIMENTOS DE CORRENTE DE GRANITOS DE CAMPINAS

NUM. LAP.	JAC935	JAD936	JAC937	JAD938	JAC939	JAC940	JAD940A	JAD941	JAC942	JAC944
NUM. CAMPO	CG0084	CG0086	CG0087	CG0089	CG0090	CG0091	CG0091	CG0092	CG0093	CG0095
C. CLSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300
PRECECENCIA	AD	AD	AD	AD	AD	AD	AD	AD	AD	AD
BASE CART.	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI
BASE CART.	3	3	3	3	3	3	3	3	3	3
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	09/75	09/75	09/75	09/75	09/75	09/75	09/75	09/75	09/75	09/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	314700	314430	315750	317550	318160	318910	318910	318910	319000	314000
UTM - LONG.	06579530	06579480	06579000	06578830	06574880	06572900	06572900	06572900	06570550	06575390
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
PONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REC.	S	S	S	S	S	S	S	S	S	S
ID. CECLOG.										
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	B	B	B	B	B	B	B	B	B	B
TIPO VEGET.	F	F	C	D	A	A	A	A	A	C
SIT. TOPOG.	A	A	A	A	A	A	A	A	A	A
SIT. AMOST.	B	B	C	C	B	B	B	B	B	B
ALTITUDE										
PROF. AMOST.										
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTENP.										
TIPO ALTER.										
TIPO MINER.										
DEP. COCCR.										
LARGURA FIC	4	2	3	3	2	2	3	3	3	3
PROFUND. RIO	0,3	0,3	0,2	0,5	0,2	0,2	0,3	0,3	0,3	0,3
VELOC. CORR.	2	2	2	3	3	3	2	3	3	2
NIVEL ACIA	2	2	2	3	3	3	3	3	3	2
AREA CRENAG.	1	1	1	1	1	1	1	1	1	1
TURB. ACIA	C	O	O	O	O	O	C	O	O	1
POS. COLETA	C	C	C	D	C	C	C	C	C	C
COR ACIA	A	A	A	A	A	A	A	A	A	F
GRAU AFREC.	B	B	B	B	C	C	C	C	B	E
VOL. CRICIN.										
PESO CONC.										
GRANULOMET.										
TEXT. SEDIM.	51	82	7111	82	82	91	91	91	7111	91
COR SEC./SL.										
HORIZ. SCLC										
TIPO SCLC										

SEDIMENTOS DE CORRENTE DE GRANITOS DE CAMPINAS

NUM. LAB. NUM. CAMPO CXCU-CCL MFT FES CO-CCL MO-CCL W-CCL P-CCL SE-CCL U-CCL TI-CCL 2 FG-INS F-INS S-INS 2 C-INS 2 PF AU-P CRC AU-P ANL	JAD915A CG0053	JAD916 CG0055	JAD922 CG0065	JAD923 CG0069	JAD924 CG0070	JAD925 CG0071	JAD931 CG0080	JAD932 CG0081	JAD933 CG0082	JAD934 CG0083
	160,000	375,000	425,000	900,000	700,000	700,000	450,000	400,000	450,000	375,000





SEDIMENTOS DE CORRENTE DE GRANITOS DE CAMPINAS

NUM. LAB.	JAC925	JAC926	JAC937	JAC938	JAC939	JAC940	JAC940A	JAC941	JAC942	JAC944
NUM. CAMPO	CG0084	CG0086	CG0087	CG0089	CG0090	CG0091	CG0091	CG0092	CG0093	CG0095
AMB. BIOTICO										
PARAMETROS ANALITICOS DE CAMPO										
EH										
PH										
METAL TOTAL										
COEF. LIVRE	FS521	FS531	FS541	FS551	FS561	FS571	FS571	FS572	FS581	FS601
PARAMETROS ANALITICOS										
FE-S %	2,000	1,500	3,000	5,000	5,000	5,000		3,000	2,000	3,000
MG-S %	0,500	0,200	0,300	0,200	0,300	0,300		0,200	0,200	0,500
CA-S %	0,150	0,150	0,500	0,500	1,000	0,700		0,500	0,500	1,000
TI-S %	1,000	0,700	0,500	1,000	1,000	1,000		0,700	0,700	0,700
MN-S	300,000	500,000	500,000	1000,000	1000,000	1000,000		300,000	700,000	700,000
AG-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.		NAC DET.	NAC DET.	NAC DET.
AS-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.		NAC DET.	NAC DET.	NAC DET.
AL-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.		NAC DET.	NAC DET.	NAC DET.
B-S	1500,000	1000,000	70,000	100,000	50,000	50,000		50,000	50,000	1000,000
BA-S	1000,000	1000,000	1000,000	3000,000	2000,000	2000,000		2000,000	1500,000	2000,000
BE-S	150,000	150,000	50,000	3,000	5,000	3,000		3,000	7,000	10,000
BI-S	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000		-10,000	-10,000	-10,000
CF-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.		NAC DET.	NAC DET.	NAC DET.
CD-S	15,000	10,000	15,000	15,000	15,000	10,000		10,000	10,000	20,000
CR-S	50,000	50,000	50,000	50,000	30,000	30,000		30,000	20,000	50,000
CL-S	-5,000	-5,000	10,000	10,000	10,000	5,000		-5,000	5,000	5,000
LA-S	20,000	20,000	50,000	100,000	200,000	150,000		100,000	200,000	20,000
MC-S	NAC DET.	NAC DET.	-5,000	5,000	5,000	5,000		5,000	5,000	NAC DET.
NB-S	20,000	20,000	20,000	30,000	30,000	30,000		20,000	30,000	30,000
NI-S	15,000	15,000	15,000	15,000	15,000	15,000		10,000	10,000	15,000
PR-S	50,000	50,000	100,000	70,000	70,000	70,000		70,000	70,000	70,000
SE-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.		NAC DET.	NAC DET.	NAC DET.
SC-S	10,000	5,000	10,000	20,000	20,000	20,000		10,000	15,000	10,000
SN-S	15,000	10,000	50,000	NAC DET.	NAC DET.	NAC DET.		NAC DET.	10,000	50,000
SR-S	NAC DET.	NAC DET.	100,000	100,000	200,000	100,000		200,000	100,000	200,000
V-S	50,000	50,000	50,000	50,000	30,000	30,000		30,000	30,000	70,000
W-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.		NAC DET.	NAC DET.	NAC DET.
Y-S	20,000	20,000	30,000	200,000	150,000	150,000		70,000	100,000	20,000
ZN-S	-200,000	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.		NAC DET.	NAC DET.	NAC DET.
ZR-S	1000,000	500,000	300,000	+1000,000	+1000,000	+1000,000		+1000,000	+1000,000	700,000
CU-AA	-5,000	-5,000	5,000	5,000	5,000	5,000	5,000	-5,000	5,000	5,000
PF-AA	10,000	10,000	20,000	15,000	15,000	15,000	15,000	10,000	20,000	15,000
ZN-AA	15,000	10,000	25,000	25,000	35,000	30,000	25,000	20,000	30,000	30,000
AG-AA	NAC DET.	NAC DET.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	NAC DET.	NAC DET.	INTERFER.
CO-AA										
NJ-AA										
BI-AA										
CC-AA										
TF-AA										
AU-AA	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.		NAC DET.	NAC DET.	NAC DET.
AS-CEL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SB-CEL	NAC DET.	-1,000	-1,000	-1,000	-1,000	-1,000	-1,000	-1,000	-1,000	-1,000

SEDIMENTOS DE CORRENTE DE GRANITOS DE CAMPINAS

NUM. LAB. NUM. CAMPO AMB. BIOTICO	JAC945 CG0096	JAC948 CGCCS9	JAC949 CG0100	JAC950 CG0101	JAC951 CG0102	JAC952 CG0103	JAEG75 CG0067
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PARAMETROS ANALITICOS DE CAMPO

EH				7,0		7,0	
PH							
METAL TOTAL							
CODIF. LIVRE	FS602	FS631	FS632	FS641	FS642	FS651	FS421

PARAMETROS ANALITICOS

FE-S %	3,000	3,000	2,000	3,000	7,000	5,000	5,000
MG-S %	0,500	0,300	0,300	0,700	1,000	1,000	0,500
CA-S %	1,000	0,500	1,000	2,000	1,500	3,000	0,500
TI-S %	0,500	1,000	1,000	1,000	1,000	1,000	1,000
MN-S	500,000	300,000	500,000	300,000	700,000	700,000	500,000
AG-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AS-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AL-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
R-S	1000,000	500,000	500,000	200,000	200,000	200,000	1000,000
BA-S	2000,000	1500,000	2000,000	5000,000	3000,000	3000,000	2000,000
BE-S	5,000	2,000	5,000	10,000	5,000	10,000	20,000
BI-S	-10,000	-10,000	-10,000	NAC DET.	NAC DET.	NAC DET.	-10,000
CC-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
CO-S	20,000	20,000	20,000	20,000	20,000	20,000	20,000
CR-S	100,000	100,000	100,000	70,000	100,000	100,000	100,000
CU-S	5,000	5,000	5,000	20,000	50,000	50,000	15,000
LA-S	20,000	200,000	50,000	70,000	70,000	70,000	50,000
MO-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	-5,000
NE-S	10,000	20,000	20,000	20,000	30,000	20,000	20,000
NI-S	15,000	15,000	15,000	15,000	20,000	15,000	20,000
PE-S	100,000	50,000	50,000	100,000	100,000	100,000	100,000
SE-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
SC-S	10,000	10,000	10,000	10,000	20,000	10,000	10,000
SN-S	20,000	NAC DET.	NAC DET.	150,000	300,000	15,000	20,000
SR-S	200,000	200,000	200,000	500,000	300,000	700,000	200,000
V-S	70,000	70,000	70,000	70,000	100,000	100,000	50,000
W-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
Y-S	20,000	50,000	30,000	50,000	50,000	20,000	20,000
ZN-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
ZR-S	700,000	500,000	500,000	+1000,000	+1000,000	700,000	500,000
CU-AA	5,000	5,000	5,000	5,000	10,000	5,000	5,000
PE-AA	15,000	15,000	15,000	15,000	20,000	15,000	20,000
ZN-AA	30,000	25,000	30,000	25,000	35,000	20,000	35,000
AG-AA	INTERFER.	NAC DET.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA							
NI-AA							
PI-AA							
CD-AA							
TE-AA							
AU-AA	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AS-CCL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SE-CCL	-1,000	-1,000	-1,000	-1,000	-1,000	-1,000	-1,000



SEDIMENTOS DE ORIFENTE DE GRANITOS DE CAMPINAS

NUM. LTB.	JAC945	JAC948	JAC949	JAC950	JAC951	JAC952	JAC975
NUM. CAMPO	CG0096	CG0099	CG0100	CG0101	CG0102	CG0103	CG0067
C. CUSTO	1533	1533	1533	1533	1533	1533	1533
S. CUSTO	300	300	300	300	300	300	300
PRECEDENCIA	AD	AD	AD	AD	AD	AD	AD
BASE CART.	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH-22-YA
BASE CART.	3	3	3	3	3	3	V-13
BASE CART.							
ESCALA	0050	0050	0050	0050	0050	0050	0050
DATA	09/75	09/75	09/75	09/75	09/75	09/75	09/75
LATITUDE							
LONGITUDE							
ABSCISSA - X	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	314000	309850	309850	310250	310250	310680	318820
UTM - LONG.	06575390	06570750	06570750	06572900	06572900	06572300	06585950
MER. CENT.	51	51	51	51	51	51	51

PARÂMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L
ROCHA REC.	S	S	S	S	S	S	S
ID. CECLOG.							
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	B	B	B	B	B	B	B
TIPO VEGET.	D	A	A	A	A	A	E
SIT. TOPOG.	A	A	A	A	A	A	D
SIT. AMOST.	B	B	B	B	B	B	C
ALTITUDE							
PROF. AMOST.							
FORMA IGNEA							
SIT. ESTAB.							
MATRIZ DEFC.							
GRAL. INTMP.							
TIPO ALTER.							
TIPO MINER.							
DEP. CCCC.							
LARGURA FIC	3	3	3	4	3	2	6
PROFUND. FIC	0,3	0,4	0,4	0,4	0,3	0,2	0,6
VELOC. CORR.	2	3	3	3	3	3	2
NIVEL AGUA	2	3	3	3	3	3	2
AREA DRENAG.	1	1	1	1	1	1	1
TURB. AGUA	1	C	0	0	0	0	C
PCS. COLETA	C	C	C	C	C	C	E
COR AGUA	F	A	A	A	A	A	A
GRAL. APPED.	B	C	C	C	C	C	C
VOL. CRICIN.							
PESO CONC.							
GRANULOMET.							
TEXT. SECIM.	51	82	82	82	91	82	51
CCR SEC./SL.							
HORIZ. SCLC							
TIPO SCLC							

SEDIMENTOS DE CORRENTE DE GRANITOS DE CAMPINAS

NUM. LAB.	JAC945	JAC948	JAC949	JAC950	JAC951	JAC952	JAC975
NUM. CAMFC	CG0096	CG0099	CG0100	CG0101	CG0102	CG0103	CG0067
CXCU-CCL							
MET PES							
CO-CCL							
MO-CCL							
W-CCL							
P-CCL							
SF-CCL							
U-CCL							
TI-CCL %							
FG-INS							
F-INS	475,000	190,000	225,000	225,000	225,000	325,000	375,000
S-INS %							
C-INS %							
PT							
AU-P CRG							
AU-P ANL							

ROCHAS DE FALHAS

NUM. LAB.	JAE025	JAE026
NUM. CAMPO	ES0164	ES0165
F-INS	7000,000	120,000
S-INS %		
C-INS %		
PF		
AU-P ORG		
AU-P ANL		



S E A G

PROJET. LEVANTAMENTO GEOQUIMICO DO PGS

CENTRO DE CUSTO - 1533.300

## ROCHAS DE FALMAS

NUM. LAB.	JAEC25	JAEC26
NUM. CAMPO	ES0164	ES0165
AMB. BIOTICO		

## PARAMETROS ANALITICOS DE CAMPO

FT		
PH		
METAL TOTAL		
CODIF. LIVRE	PR072	PR061

## PARAMETROS ANALITICOS

FE-S %	1,500	10,000
MG-S %	0,030	5,000
CA-S %	1,500	7,000
TI-S %	0,050	0,700
MN-S	20,000	1500,000
AG-S	1,000	NAO DET.
AS-S	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.
B-S	-10,000	-10,000
BA-S	3000,000	700,000
BE-S	3,000	-1,000
BI-S	-10,000	-10,000
CC-S	NAO DET.	NAO DET.
CD-S	NAO DET.	50,000
CR-S	NAO DET.	500,000
CU-S	-5,000	100,000
LA-S	-20,000	-20,000
MO-S	7,000	NAO DET.
NE-S	20,000	-10,000
NI-S	-5,000	100,000
PB-S	30,000	10,000
SB-S	NAO DET.	NAO DET.
SC-S	NAO DET.	50,000
SN-S	-10,000	NAO DET.
SR-S	NAO DET.	500,000
V-S	30,000	200,000
W-S	NAO DET.	NAO DET.
Y-S	100,000	30,000
ZN-S	NAO DET.	NAO DET.
ZR-S	150,000	70,000
CU-AA	5,000	45,000
PE-AA	15,000	15,000
ZN-AA	20,000	40,000
AG-AA	INTERFER.	INTERFER.
CO-AA		
NI-AA		
BI-AA		
CD-AA		
TE-AA		
AU-AA	-0,050	NAO DET.
TI-CCL %		

S E A G

PROJETO EVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

## ROCHAS DE FALMAS

NUM. LAB.	JAEC25	JAEC26
NUM. CAMPO	FS0164	ESC165
C. CLSTO	1533	1533
S. CLSTO	300	300
PROCEDENCIA	AD	AD
BASE CART.	SH21RIV2	SH21RIV2
BASE CART.		
BASE CART.		
ESCALA	0050	0050
DATA	10/75	10/75
LATITUDE		
LONGITUDE		
ABCISSA - X	0000	0000
ORDENADA - Y	0000	0000
UTM - LAT.	775300	770000
UTM - LONG.	06602350	06601150
MER. CENT.	51	51

## PARÂMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	R	R
TIPO AMOST.	B	B
FONTE AMOST.	A	A
ROCHA REC.	D	U
ID. GEOLG.		
MAT. COLET.	GRNT	DUNT
PLUVIOSIDADE		
TIPO VEGET.		
SIT. TOPOG.		
SIT. AMOST.		
ALTITUDE		
PROF. AMOST.		
FORMA IGNEA		
SIT. ESTRUT.		
MATRIZ PRED.		
GRAU INTEMP.	B	C
TIPO ALTER.		
TIPO MINER.		
DEP. CCCOR.		
LARGURA FIO		
PROFUND. RIO		
VELOC. CORR.		
NIVEL AGUA		
AREA DRENAG.		
TURB. AGUA		
POS. COLETA		
COR AGUA		
GRAU AFREC.		
VOL. ORIGIN.		
PESO CCNC.		
GRANULOMET.		
TEXT. SECIM.		
COR SEC./SL.		
HORIZ. SCLC		
TIPO SCLC		





ROCHAS DE FALMAS

NUM. LAB. NUM. CAMPO AMB. PICTICO	JAE016 ES0155	JAE017 ES0156	JAE018 ES0157	JAE019 ES0158	JAE020 ES0159	JAE020A ES0159	JAE021 ES0160	JAE022 ES0161	JAE023 ES0162	JAE024 ES0163
PARAMETROS ANALITICOS DE CAMPO										
FH PH METAL TOTAL CODIF. LIVRE	PR141	PR151	PR161	PR171	PR181	PR181	PR182	PRG21	PRO31	PRO71
PARAMETROS ANALITICOS										
FE-S %	15,000	1,500	7,000	15,000	10,000		10,000	15,000	7,000	0,700
MG-S %	5,000	0,300	1,500	5,000	2,000		2,000	3,000	5,000	0,030
CA-S %	3,000	0,150	3,000	10,000	2,000		2,000	7,000	5,000	0,700
TI-S %	1,000	0,070	0,700	1,000	0,700		0,700	1,000	0,700	0,030
MN-S	1000,000	100,000	700,000	1000,000	700,000		700,000	700,000	1000,000	30,000
AG-S	NAO DET.	NAO DET.	NAO DET.	50,000	2,000		3,000	NAO DET.	NAO DET.	-0,500
AS-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.		NAO DET.	NAO DET.	NAC DET.	NAC DET.
AU-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.		NAO DET.	NAO DET.	NAC DET.	NAC DET.
B-S	-10,000	30,000	10,000	20,000	-10,000		10,000	50,000	-10,000	-10,000
BA-S	+5000,000	2000,000	5000,000	1500,000	3000,000		3000,000	700,000	500,000	1500,000
BE-S	-1,000	1,500	2,000	1,500	1,500		1,500	-1,000	-1,000	3,000
BI-S	NAC DET.	-10,000	-10,000	-10,000	-10,000		-10,000	NAO DET.	-10,000	-10,000
CD-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.		NAO DET.	NAO DET.	NAC DET.	NAC DET.
CO-S	70,000	7,000	20,000	50,000	20,000		20,000	50,000	30,000	NAC DET.
CR-S	100,000	-10,000	10,000	70,000	30,000		30,000	500,000	200,000	NAC DET.
CU-S	150,000	5,000	5,000	10000,000	1000,000		2000,000	5,000	20,000	-5,000
LA-S	150,000	30,000	150,000	-20,000	70,000		100,000	-20,000	-20,000	30,000
MD-S	10,000	-5,000	7,000	300,000	7,000		30,000	NAO DET.	NAC DET.	-5,000
NB-S	20,000	-10,000	15,000	10,000	15,000		20,000	15,000	-10,000	30,000
NI-S	50,000	-5,000	15,000	20,000	20,000		15,000	70,000	70,000	-5,000
PE-S	30,000	50,000	30,000	15,000	20,000		30,000	-10,000	15,000	20,000
SE-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.		NAO DET.	NAO DET.	NAC DET.	NAC DET.
SC-S	70,000	-5,000	20,000	70,000	30,000		30,000	70,000	30,000	NAC DET.
SN-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.		NAO DET.	NAO DET.	NAC DET.	NAC DET.
SR-S	700,000	700,000	1500,000	700,000	500,000		700,000	300,000	700,000	NAC DET.
V-S	200,000	30,000	150,000	300,000	150,000		150,000	150,000	200,000	30,000
W-S	NAO DET.	NAO DET.	NAC DET.	-50,000	-50,000		-50,000	NAO DET.	NAC DET.	NAC DET.
Y-S	70,000	-10,000	30,000	70,000	30,000		50,000	70,000	20,000	50,000
ZN-S	-200,000	NAO DET.	NAC DET.	NAC DET.	NAO DET.		NAC DET.	NAO DET.	NAC DET.	NAC DET.
ZR-S	300,000	50,000	200,000	70,000	200,000		200,000	100,000	70,000	70,000
CU-AA	50,000	10,000	10,000	+1000,000	780,000	780,000	500,000	10,000	30,000	5,000
PR-AA	30,000	25,000	20,000	25,000	20,000	20,000	20,000	15,000	20,000	15,000
ZN-AA	100,000	5,000	35,000	65,000	30,000	30,000	25,000	55,000	80,000	20,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	19,000	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CE-AA										
TE-AA										
AU-AA	NAO DET.	NAO DET.	NAC DET.	0,300	NAO DET.		NAO DET.	NAO DET.	NAC DET.	NAC DET.
TI-CCL %										

ROCHAS DE PALMAS

NUM. LAB.	JAE016	JAE017	JAE018	JAE019	JAE020	JAE020A	JAE021	JAE022	JAE023	JAE024
NUM. CAMPO	ES0155	ES0156	ES0157	ES0158	ES0159	ES0159	ES0160	ES0161	ES0162	ES0163
C. CUSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300
PROCECENCIA	AD	AD	AC	AD	AD	AC	AD	AD	AC	AC
BASE CART.	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2
BASE CART.										
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	10/75	10/75	10/75	10/75	10/75	10/75	10/75	10/75	10/75	10/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	773220	773190	773250	773275	773270	773270	773270	773000	772000	775300
UTM - LONG.	06602850	06603000	06602850	06602850	06602850	06602850	06602850	06604200	06603350	06602350
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	R	R	R	R	R	R	R	R	R	R
TIPO AMOST.	A	B	A	B	A	A	A	A	B	B
FONTE AMOST.	A	A	A	A	A	A	A	A	A	A
ROCHA REG.	C	C	C	C	C	C	C	C	U	C
ID. GEOLOG.										
MAT. COLET.	MGMT	MGMT	MGMT	MGMT	MGMT	MGMT	MGMT	FLTC	MBST	GRAT
PLUVIOSIDADE										
TIPO VEGET.										
SIT. TOPOG.										
SIT. AMOST.										
ALTITUDE										
PROF. AMOST.										
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTERR.	B	B	B	B	B	B	B	A	B	B
TIPO ALTER.										
TIPO MINER.										
DEP. COCCR.										
LARGURA RIO										
PROFUND. RIO										
VELOC. CORR.										
NIVEL AGUA										
AREA DRENAG.										
TURB. AGUA										
POS. COLETA										
COR AGUA										
GRAU ARREC.										
VCL. CRIGIN.										
PESO COCC.										
GRANULOMET.										
TEXT. SEDIM.										
COR SEC./SL.										
HORIZ. SOLO										
TIPO SCLC										



S E A G

PROJETO LEVANTAMENTO GEOQUIMICO DO FGS

CENTRO DE CLSTO - 1933.300

ROCHAS DE FALMAS

NUM. LAB.	JAC741	JAD742	JAC743	JAC744	JAC744A	JAE011	JAE012	JAE013	JAE014	JAE015
NUM. CAMPO	ES0145	ES0146	ES0147	ES0148	ES0148	ES0150	ES0151	ES0152	ES0153	ES0154
AMB. BIOTICO										

PARAMETROS ANALITICOS DE CAMPO

EH										
PF										
METAL TOTAL										
CODIF. LIVRE	PR051	PR081	PR041	PR011	PR011	PR051	PR101	PR111	PR121	PR131

PARAMETROS ANALITICOS

FE-S %	5,000	1,500	15,000	3,000		5,000	2,000	10,000	1,500	10,000
MG-S %	2,000	0,050	3,000	10,000		1,000	0,700	5,000	1,000	5,000
CA-S %	2,000	0,100	7,000	0,200		2,000	1,500	7,000	0,700	5,000
TI-S %	0,500	0,100	0,700	0,005		0,500	0,200	0,700	0,300	0,700
MN-S	1000,000	100,000	1500,000	700,000		700,000	700,000	1000,000	500,000	1500,000
AG-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.		NAC DET.	NAO DET.	2,000	-0,500	2,000
AS-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.		NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AL-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.		NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	10,000	NAO DET.	10,000	-10,000		10,000	-10,000	-10,000	10,000	10,000
BA-S	300,000	50,000	1500,000	-20,000		5000,000	3000,000	1500,000	2000,000	1500,000
BE-S	-1,000	5,000	-1,000	NAC DET.		2,000	1,500	1,000	1,500	-1,000
BI-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.		-10,000	-10,000	NAO DET.	-10,000	NAO DET.
CD-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.		NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	30,000	NAO DET.	50,000	50,000		15,000	7,000	70,000	10,000	50,000
CR-S	100,000	10,000	50,000	5000,000		15,000	10,000	70,000	-10,000	70,000
CU-S	20,000	-5,000	150,000	-5,000		100,000	5,000	500,000	200,000	1500,000
LA-S	NAO DET.	NAO DET.	70,000	NAO DET.		150,000	100,000	NAO DET.	70,000	-20,000
MO-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.		-5,000	NAO DET.	15,000	1500,000	100,000
NB-S	10,000	30,000	10,000	10,000		10,000	-10,000	10,000	-10,000	-10,000
NI-S	50,000	NAO DET.	50,000	700,000		15,000	5,000	30,000	50,000	20,000
PE-S	10,000	50,000	30,000	10,000		30,000	20,000	15,000	70,000	15,000
SB-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.		NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	20,000	NAO DET.	30,000	5,000		20,000	15,000	50,000	15,000	50,000
SN-S	NAO DET.	NAO DET.	NAC DET.	50,000		NAO DET.	NAO DET.	NAO DET.	10,000	NAO DET.
SR-S	200,000	NAO DET.	700,000	NAO DET.		700,000	700,000	700,000	300,000	300,000
V-S	150,000	30,000	300,000	20,000		200,000	150,000	200,000	150,000	200,000
W-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.		-50,000	NAO DET.	-50,000	NAO DET.	NAO DET.
Y-S	20,000	50,000	20,000	-10,000		30,000	20,000	30,000	20,000	30,000
ZN-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.		NAC DET.	NAO DET.	NAO DET.	NAO DET.	300,000
ZR-S	50,000	200,000	100,000	10,000		70,000	70,000	70,000	70,000	70,000
CU-AA	30,000	-5,000	70,000	5,000	5,000	65,000	10,000	350,000	240,000	880,000
PE-AA	15,000	10,000	20,000	20,000	20,000	15,000	15,000	25,000	50,000	20,000
ZN-AA	75,000	20,000	50,000	10,000	10,000	40,000	40,000	70,000	30,000	160,000
AG-AA	INTERFER.	NAO DET.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CC-AA										
TE-AA										
AU-AA	NAO DET.	NAO DET.	-0,050	NAC DET.		0,300	NAO DET.	-0,050	NAC DET.	-0,050
TI-CCL %										
HG-INS										



S E A G

PROJETO - VANTAMENTO GEOQUIMICO DO RGS

ENTRO DE CLSTO - 1533.300

## ROCHAS DE FALMAS

NUM. LAB.	JAD741	JAD742	JAD743	JAD744	JAD744A	JAF011	JAF012	JAF013	JAF014	JAF015
NUM. CAMPO	ES0145	ES0146	ES0147	ES0148	ES0148	ES0150	ES0151	FSC152	FSC153	ES0154
C. CLSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300
PRCCFENCIA	AD	AD	AD	AD	AD	AD	AD	AD	AD	AD
BASE CART.	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2
BASE CART.										
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	09/75	09/75	09/75	09/75	09/75	10/75	10/75	10/75	10/75	10/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	779860	778230	775620	775120	775120	773248	773252	773250	773250	773240
UTM - LONG.	06603870	06600060	06604200	06605940	06605940	06602850	06602850	06602850	06602850	06602850
MER. CENT.	51	51	51	51	51	51	51	51	51	51

## PARÂMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	R	R	R	R	R	R	R	R	R	R
TIPO AMOST.	A	B	B	B	B	B	B	B	A	A
FONTE AMOST.	A	A	A	A	A	C	D	C	A	A
ROCHA REG.	N	D	M	N	N	C	C	C	C	C
ID. GEOLÓG.										
MAT. COLET.	XSTO	GRNT	GNSS	XSTO	XSTO	XSTO	XSTO	MGMT	MGMT	XSTC
PLUVIOSIDADE										
TIPO VEGET.										
SIT. TOPOG.										
SIT. AMOST.										
ALTITUDE										
PRCF. AMOST.						2,00	2,00	1,00		
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PRED.										
GRAU INTEMP.	B	B	C	B	B	A	A	C	C	B
TIPC ALTER.										
TIPC MINER.										
DEP. COCCO.										
LARGURA FIO										
PROFUND. RIO										
VELOC. CORR.										
NIVEL AGLA										
AREA CRENAG.										
TURB. AGLA										
PCS. COLETA										
COR AGLA										
GRAU ARREC.										
VOL. ORIGIN.										
PESO COCCO.										
GRANULOMET.										
TEXT. SECIM.										
COR SEC./SL.										
HORIZ. SOLO										
TIPO SOLO										

FOLHA DE CONTROLE - PROGRAMA PRGQM007

\*\*\* OPCOES \*\*\*

C O O O O O O O O O

ARQUIVO

FS193360

AMOSTRAS LIDAS	22
AMOSTRAS IMPRESSAS	22
N. INICIAL DA PAGINA	1
N. FINAL DA PAGINA	9
N. DE AMOSTRA INICIAL	
N. DE AMOSTRAS FINAL	



SOLOS DE PERFIS HCP.A PALMAS

NUM. LAB.	JAEC58	JAEC59	JAEC60	JAEC61	JAEC62	JAEC63	JAEC63A	JAEC64
NUM. CAMPO	CK0647	CK0648	CK0649	CK0650	CK0651	CK0652	CK0652	CK0653
AMB. BIOTICO								

PARAMETROS ANALITICOS DE CAMPO

EH								
PH								
METAL TOTAL								
CODIF. LIVRE	P2061	P2062	P2081	P2082	P2101	P2121	P2121	P2141

PARAMETROS ANALITICOS

FE-S %	10,000	10,000	10,000	15,000	15,000	10,000		10,000
MG-S %	0,700	1,000	1,000	1,000	1,000	0,700		1,000
CA-S %	0,150	0,150	0,200	0,150	0,200	0,200		1,000
TI-S %	1,000	1,000	1,000	+1,000	+1,000	+1,000		0,700
MN-S	1000,000	1500,000	700,000	1000,000	1000,000	1500,000		1500,000
AG-S	NAD DET.	NAD DET.	NAC DET.	NAC DET.	0,500	0,500		NAD DET.
AS-S	NAD DET.	NAD DET.	NAD DET.	NAC DET.	NAC DET.	NAC DET.		NAD DET.
AU-S	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAC DET.	NAC DET.		NAD DET.
B-S	50,000	50,000	50,000	70,000	70,000	70,000		30,000
BA-S	1500,000	2000,000	3000,000	3000,000	3000,000	2000,000		3000,000
BE-S	1,500	1,500	2,000	1,500	2,000	2,000		2,000
BI-S	NAD DET.	NAD DET.	NAC DET.	NAC DET.	NAD DET.	NAC DET.		NAD DET.
CD-S	NAC DET.	NAD DET.	NAC DET.	NAC DET.	NAD DET.	NAD DET.		NAD DET.
CO-S	15,000	20,000	20,000	30,000	30,000	20,000		15,000
CR-S	50,000	70,000	200,000	100,000	100,000	300,000		300,000
CU-S	300,000	500,000	300,000	500,000	300,000	200,000		70,000
LA-S	20,000	30,000	50,000	50,000	50,000	70,000		70,000
MO-S	5,000	-5,000	5,000	7,000	10,000	15,000		-5,000
NE-S	20,000	20,000	20,000	20,000	30,000	30,000		20,000
NI-S	70,000	70,000	70,000	70,000	70,000	50,000		15,000
PB-S	70,000	70,000	50,000	50,000	50,000	50,000		30,000
SB-S	NAD DET.	NAD DET.	NAC DET.	NAC DET.	NAD DET.	NAC DET.		NAD DET.
SC-S	30,000	30,000	30,000	30,000	50,000	30,000		10,000
SN-S	NAD DET.	NAD DET.	NAC DET.	NAC DET.	500,000	NAC DET.		NAD DET.
SR-S	-100,000	100,000	100,000	100,000	100,000	150,000		300,000
V-S	300,000	300,000	300,000	300,000	500,000	300,000		200,000
W-S	-50,000	NAD DET.	NAC DET.	NAC DET.	-50,000	-50,000		-50,000
Y-S	30,000	50,000	50,000	30,000	50,000	30,000		20,000
ZN-S	-200,000	-200,000	-200,000	-200,000	-200,000	-200,000		-200,000
ZR-S	300,000	500,000	500,000	500,000	700,000	700,000		300,000
CU-AA	180,000	180,000	170,000	190,000	130,000	70,000	70,000	30,000
PE-AA	25,000	25,000	25,000	25,000	25,000	25,000	25,000	20,000
ZN-AA	45,000	45,000	35,000	35,000	40,000	35,000	35,000	25,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA								
NI-AA								
BI-AA								
CD-AA								
TE-AA								
AU-AA	0,150	0,150	0,100	0,050	0,250	0,150		-0,050
TI-COL %								
HG-INS								



S E A G

PROJETO VANTAGEM GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

SOLCS DE PERFIS HCR.A FALMAS

NUM. LAB.	JAE058	JAE059	JAE060	JAE061	JAE062	JAE063	JAE063A	JAE064
NUM. CAMPO	CK0647	CK0648	CK0649	CK0650	CK0651	CK0652	CK0652	CK0653
C. CUSTO	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300
PROCECENCIA	AD	AD	AC	AD	AD	AC	AC	AD
BASE CART.	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2
BASE CART.								
BASE CART.								
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050
DATA	10/75	10/75	10/75	10/75	10/75	10/75	10/75	10/75
LATITUDE								
LONGITUDE								
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	773158	773158	773166	773166	773182	773214	773214	773278
UTM - LONG.	06603000	06603000	06603000	06603000	06603000	06603000	06603000	06603000
MER. CENT.	51	51	51	51	51	51	51	51

PARÂMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	L	L	L	L	L	L	L	L
TIPO AMOST.	B	B	B	B	B	B	B	B
FONTE AMOST.	F	F	F	F	F	F	F	F
ROCHA REC.	C	C	C	C	C	C	C	C
ID. GEOLÓG.	AS	AS	AS	AS	AS	AS	AS	AS
MAT. COLET.	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO
PLUVIOSIDADE	A	A	A	A	A	A	A	A
TIPO VEGET.	A	A	A	A	A	A	A	A
SIT. TOPOG.	D	D	D	D	D	D	D	D
SIT. AMOST.								
ALTITUDE								
PROF. AMOST.	0,05	0,05	0,05	0,05	0,05	0,05	0,05	0,05
FORMA IGNEA								
SIT. ESTRUT.								
MATRIZ PRED.								
GRAU INTEMP.								
TIPO ALTER.								
TIPO MINER.								
DEP. COCCR.								
LARGURA RIC								
PROFUND. RIO								
VELOC. CORR.								
NIVEL AGLA								
AREA DRENAG.								
TURB. AGLA								
POS. COLETA								
COR AGLA								
GRAU ARREC.								
VOL. CRIGIN.								
PESO CCNC.								
GRANULOMET.								
TEXT. SEDIM.	152 2	152 2	152 2	152 2	152 2	152 2	152 2	152 2
COR SEC./SL.	C	C	C	C	C	C	C	C
HORIZ. SOLO	A	A	A	A	A	A	A	A
TIPO SOLO	C	C	C	C	C	C	C	C

SOLCS DE PERFIS POR A PALMAS

NUM. LAB.	JAE048	JAEC49	JAE050	JAE051	JAE052	JAEC53	JAEC54	JAEC55	JAE056	JAE057
NUM. CAMPO	CK0637	CK0638	CK0639	CK0640	CK0641	CK0642	CK0643	CK0644	CK0645	CK0646
F-INS	220,000	220,000	220,000	220,000	220,000	210,000	140,000	120,000	220,000	270,000
S-INS										
C-INS										
PH										
AU-P ORG										
AU-P ANL										

50

S E A G

PROJETO AVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.200

SOLCS DE PERFIS HCR. A PALMAS

NUM. LAB.	JAE048	JAE049	JAE050	JAE051	JAE052	JAE053	JAE054	JAE055	JAE056	JAE057
NUM. CAMPO	CK0637	CK0638	CK0639	CK0640	CK0641	CK0642	CK0643	CK0644	CK0645	CK0646
AMB. PICTICO										

PARAMETROS ANALITICOS DE CAMPO

EH										
PH										
METAL TOTAL										
COOIF. LIVRE	P2031	P2051	P2052	P2071	P2072	P2091	P2111	P2131	P2021	P2041

PARAMETROS ANALITICOS

FE-S %	15,000	15,000	15,000	15,000	10,000	15,000	10,000	10,000	10,000	15,000
MG-S %	1,500	1,500	1,500	2,000	1,500	1,500	1,000	1,000	0,700	1,000
CA-S %	0,200	0,300	0,200	0,500	0,700	0,700	0,200	0,500	0,150	0,150
TI-S %	+1,000	+1,000	+1,000	+1,000	+1,000	+1,000	+1,000	+1,000	1,000	+1,000
MN-S	1000,000	1500,000	1500,000	1500,000	1500,000	2000,000	1500,000	2000,000	1000,000	1500,000
AG-S	-0,500	-0,500	1,000	-0,500	-0,500	-0,500	NAD DET.	NAD DET.	-0,500	-0,500
AS-S	NAD DET.	NAD DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAD DET.	NAD DET.	NAC DET.	NAC DET.
AU-S	NAD DET.	NAD DET.	NAC DET.	NAC DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAC DET.	NAC DET.
B-S	70,000	50,000	70,000	70,000	50,000	20,000	50,000	50,000	70,000	70,000
BA-S	1500,000	1500,000	1500,000	1500,000	1500,000	1500,000	1500,000	2000,000	3000,000	3000,000
BE-S	1,500	-1,000	-1,000	1,000	1,000	1,500	1,000	1,500	1,000	1,500
BI-S	NAD DET.	NAD DET.	NAD DET.	NAC DET.	NAC DET.	NAD DET.	NAD DET.	NAD DET.	NAC DET.	NAC DET.
CD-S	NAD DET.	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAC DET.	NAC DET.
CO-S	30,000	70,000	70,000	50,000	50,000	50,000	20,000	20,000	15,000	20,000
CR-S	200,000	300,000	150,000	200,000	70,000	70,000	200,000	150,000	50,000	100,000
CU-S	1500,000	2000,000	2000,000	3000,000	2000,000	2000,000	200,000	200,000	700,000	1000,000
LA-S	30,000	20,000	20,000	20,000	30,000	30,000	30,000	50,000	50,000	50,000
MO-S	15,000	20,000	20,000	15,000	10,000	10,000	-5,000	-5,000	5,000	10,000
NB-S	20,000	20,000	20,000	20,000	20,000	20,000	20,000	30,000	20,000	20,000
NI-S	100,000	100,000	100,000	100,000	100,000	70,000	70,000	100,000	50,000	100,000
PE-S	30,000	30,000	50,000	30,000	30,000	50,000	50,000	50,000	70,000	70,000
SB-S	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAC DET.	NAC DET.	NAD DET.	NAC DET.	NAC DET.
SC-S	70,000	50,000	70,000	50,000	50,000	50,000	30,000	50,000	30,000	50,000
SN-S	NAD DET.	NAD DET.	NAD DET.	NAC DET.	NAC DET.	NAC DET.	NAD DET.	NAD DET.	NAC DET.	NAC DET.
SR-S	100,000	-100,000	-100,000	150,000	100,000	100,000	100,000	100,000	-100,000	100,000
V-S	500,000	300,000	500,000	300,000	500,000	300,000	300,000	300,000	300,000	500,000
W-S	NAD DET.	50,000	50,000	-50,000	-50,000	50,000	NAD DET.	NAD DET.	-50,000	-50,000
Y-S	70,000	50,000	70,000	50,000	50,000	50,000	50,000	70,000	30,000	70,000
ZN-S	-200,000	-200,000	-200,000	-200,000	-200,000	-200,000	-200,000	-200,000	NAD DET.	-200,000
ZR-S	700,000	500,000	500,000	500,000	500,000	500,000	300,000	700,000	300,000	700,000
CU-AA	400,000	530,000	550,000	580,000	660,000	700,000	55,000	65,000	250,000	260,000
PE-AA	25,000	25,000	25,000	20,000	25,000	25,000	20,000	20,000	25,000	25,000
ZN-AA	40,000	45,000	45,000	50,000	55,000	60,000	35,000	50,000	35,000	45,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CD-AA										
TE-AA										
AU-AA	0,350	0,150	0,150	0,150	0,100	0,200	0,100	0,150	0,550	0,100
TI-CCL %										

S E A G

PROJET LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CLSTO - 1533.300

SOLCS DE PERFIS MCR.A FALMAS

NUM. LAB.	JAE048	JAE049	JAE050	JAE051	JAE052	JAE053	JAE054	JAE055	JAE056	JAE057
NUM. CAMPO	CK0637	CK0638	CK0639	CK0640	CK0641	CK0642	CK0643	CK0644	CK0645	CK0646
C. CUSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300
PRCECENCIA	AD	AD	AC	AD	AD	AF	AD	AD	AD	AC
BASE CART.	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2
BASE CART.										
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	10/75	10/75	10/75	10/75	10/75	10/75	10/75	10/75	10/75	10/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	773146	773142	773142	773134	773134	773118	773086	773022	773152	773154
UTM - LONG.	06603000	06603000	06603000	06603000	06603000	06603000	06603000	06603000	06603000	06603000
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	L	L	L	L	L	L	L	L	L	L
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	F	F	F	F	F	F	F	F	F	F
ROCHA REG.	C	C	C	C	C	C	C	C	C	C
ID. GEOLG.	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
MAT. COLET.	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO
PLUVIOSIDADE	A	A	A	A	A	A	A	A	A	A
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.	D	D	D	D	D	D	D	D	D	D
SIT. AMOST.										
ALTITUDE										
PROF. AMOST.	0,05	0,05	0,05	0,05	0,05	0,05	0,05	0,05	0,05	0,05
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PPEC.										
GRAU INTEMP.										
TIPO ALTER.										
TIPC MINER.										
DEP. CCCCR.										
LARGURA RIO										
PROFUND. RIO										
VELOC. CORR.										
NIVEL AGUA										
AREA DRENAG.										
TURB. AGUA										
PDS. COLETA										
COR AGUA										
GRAU ARRED.										
VOL. CRICIN.										
PESO CCNC.										
GRANULOMET.										
TEXT. SEDIM.	143 2	143 2	233 2	143 2	143 2	143 2	152 2	152 2	152 2	152 2
COR SEC./SL.	C	C	C	C	C	C	C	C	C	C
HORIZ. SCLO	A	A	A	A	A	A	A	A	A	A
TIPO SCLO	C	C	C	C	C	C	C	C	C	C





SOLOS DE PERFIS PARA PALMAS

NUM. LAB.	JAEC38A	JAEC39	JAEC40	JAEC41	JAEC42	JAEC43	JAFC44	JAFC45	JAFC46	JAFC47
NUM. CAMPO	CK0627	CK0628	CK0629	CK0630	CK0631	CK0632	CK0633	CK0634	CK0635	CK0636
AMB. BIOTICO										

PARAMETROS ANALITICOS DE CAMPO

EP  
PH  
MFTAL TOTAL  
CODIF. LIVRE

	P1031	P1051	P1052	P1071	P1072	P1091	P1111	P1131	P1141	P2011
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PARAMETROS ANALITICOS

FE-S %	7,000	10,000	7,000	10,000	7,000	10,000	7,000	10,000	7,000	15,000
MG-S %	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	0,700	1,000
CA-S %	2,000	2,000	3,000	3,000	3,000	3,000	3,000	1,000	2,000	0,200
TI-S %	1,000	1,000	1,000	1,000	1,000	+1,000	1,000	1,000	1,000	+1,000
MN-S	1500,000	1500,000	1500,000	1500,000	1500,000	1500,000	1500,000	1500,000	1000,000	1000,000
AG-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	-0,500
AS-S	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AU-S	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
B-S	10,000	10,000	10,000	20,000	20,000	20,000	20,000	20,000	10,000	70,000
BA-S	3000,000	3000,000	3000,000	5000,000	5000,000	5000,000	5000,000	1500,000	2000,000	2000,000
BE-S	1,500	1,000	2,000	1,500	1,500	1,500	1,500	3,000	2,000	1,500
BI-S	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
CD-S	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
CO-S	20,000	20,000	20,000	20,000	15,000	20,000	15,000	30,000	50,000	50,000
CR-S	200,000	300,000	300,000	200,000	700,000	300,000	300,000	50,000	100,000	100,000
CU-S	-300,000	500,000	200,000	200,000	100,000	70,000	20,000	70,000	1000,000	1000,000
LA-S	100,000	150,000	100,000	100,000	100,000	100,000	70,000	100,000	50,000	50,000
MO-S	50,000	70,000	70,000	50,000	15,000	-5,000	5,000	-5,000	15,000	15,000
NB-S	20,000	20,000	20,000	20,000	20,000	20,000	50,000	20,000	20,000	20,000
NI-S	70,000	70,000	70,000	100,000	200,000	100,000	100,000	50,000	100,000	100,000
PE-S	20,000	50,000	30,000	50,000	20,000	50,000	100,000	50,000	50,000	50,000
SB-S	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.
SC-S	20,000	20,000	30,000	30,000	30,000	30,000	15,000	20,000	50,000	50,000
SN-S	NAO DET.	20,000	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.
SR-S	700,000	700,000	1000,000	1000,000	700,000	1000,000	150,000	500,000	100,000	100,000
V-S	200,000	200,000	200,000	300,000	200,000	200,000	150,000	300,000	500,000	500,000
W-S	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.
Y-S	30,000	50,000	50,000	30,000	150,000	50,000	100,000	30,000	70,000	70,000
ZN-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	-200,000	-200,000	NAO DET.	NAC DET.	-200,000	-200,000
ZR-S	500,000	500,000	500,000	500,000	1000,000	700,000	1000,000	1000,000	1000,000	1000,000
CU-AA	60,000	120,000	230,000	110,000	110,000	20,000	15,000	25,000	320,000	320,000
PE-AA	25,000	15,000	15,000	15,000	15,000	20,000	15,000	20,000	25,000	20,000
ZN-AA	50,000	35,000	35,000	35,000	30,000	25,000	25,000	35,000	15,000	35,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CC-AA										
TE-AA										
AU-AA		NAO DET.	-0,050	-0,050	NAO DET.	-0,050	-0,050	NAO DET.	-0,050	0,250
TI-COL 2										

S E A G

PROJETO LEVANTAMENTO GEOQUIMICO DO PGS

CENTRO DE CUSTO - 1533.300

SCLOS DE FERFIS HCP. A FALMAS

NUM. LAB.	JAE038A	JAEC39	JAEC40	JAEC41	JAE042	JAE043	JAE044	JAEC45	JAEC46	JAE047
NUM. CAMPO	CK0627	CK0628	CK0629	CK0630	CK0631	CK0632	CK0633	CK0634	CK0635	CK0636
C. CUSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300
PROCEDENCIA	AD	AD	AD	AD	AD	AD	AD	AD	AD	AD
BASE CART.	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2
BASE CART.										
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	10/75	10/75	10/75	10/75	10/75	10/75	10/75	10/75	10/75	10/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	773246	773242	773242	773234	773234	773218	773186	773122	773378	773148
UTM - LONG.	06602850	06602850	06602850	06602850	06602850	06602850	06602850	06602850	06602850	06603000
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARÂMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	L	L	L	L	L	L	L	L	L	L
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	F	F	F	F	F	F	F	F	F	F
ROCHA REG.	C	C	C	C	C	C	C	C	C	C
ID. GEOLÓG.	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
MAT. COLET.	SOLO	SOLO	SCLC	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SCLC
PLUVIOSIDADE	A	A	A	A	A	A	A	A	A	A
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.	D	D	D	D	D	D	D	D	D	D
SIT. AMOST.										
ALTITUDE										
PROF. AMOST.	0,05	0,05	0,05	0,05	0,05	0,05	0,05	0,05	0,05	0,05
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PED.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCC.										
LARGURA RIO										
PROFUND. RIO										
VELOC. CORR.										
NIVEL AGLA										
AREA DRENAG.										
TURB. AGLA										
POS. COLETA										
CCR AGLA										
GRAU AFREC.										
VOL. ORIGIN.										
PESO CCNC.										
GRANULOMET.										
TEXT. SECIM.	14 32	14 32	14 32	14 32	14 32	233 2	143 2	143 2	14 32	143 2
COR SEC./SL.	C	C	C	C	C	C	C	C	C	C
HORIZ. SCLO	A	A	A	A	A	A	A	A	A	A
TIPO SCLC	C	C	C	C	C	C	C	C	C	C





SOLOS DE PERFIS HCR.A FALMAS

NUM. LAB.	JAE029	JAE030	JAE031	JAE032	JAF033	JAF034	JAF035	JAF036	JAE037	JAE038
NUM. CAMPO	CK0618	CK0619	CK0620	CK0621	CK0622	CK0623	CK0624	CK0625	CK0626	CK0627
AMB. BIOTICO										

PARAFETROS ANALITICOS DE CAMPO

EF										
PH										
METAL TOTAL										
CODIF. LIVRE	P1021	P1041	F1061	F1081	P1101	P1102	P1121	P1122	P1011	P1031

PARAFETROS ANALITICOS

FE-S %	10,000	10,000	10,000	15,000	3,000	15,000	20,000	15,000	10,000	15,000
MG-S %	2,000	1,000	1,500	2,000	1,500	2,000	2,000	1,500	1,000	2,000
CA-S %	2,000	2,000	2,000	2,000	2,000	3,000	3,000	3,000	3,000	3,000
TI-S %	1,000	1,000	1,000	+1,000	1,000	+1,000	+1,000	+1,000	1,000	1,000
MN-S	2000,000	1500,000	1500,000	2000,000	1500,000	1500,000	2000,000	1500,000	1500,000	2000,000
AG-S	NAO DET.	NAO DET.	NAO DET.	5,000	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AL-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
B-S	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
BA-S	5000,000	3000,000	5000,000	3000,000	1500,000	2000,000	5000,000	3000,000	5000,000	5000,000
BE-S	2,000	1,000	1,500	-1,000	1,000	-1,000	-1,000	1,000	1,000	2,000
BI-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CC-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CO-S	30,000	20,000	30,000	50,000	15,000	70,000	100,000	70,000	30,000	50,000
CR-S	150,000	150,000	100,000	300,000	300,000	500,000	150,000	100,000	300,000	150,000
CU-S	150,000	50,000	100,000	700,000	100,000	100,000	500,000	500,000	500,000	200,000
LA-S	150,000	100,000	150,000	30,000	20,000	30,000	100,000	100,000	150,000	200,000
MD-S	15,000	7,000	20,000	2000,000	-5,000	-5,000	5,000	7,000	70,000	20,000
NB-S	20,000	20,000	20,000	20,000	15,000	20,000	20,000	20,000	20,000	20,000
NI-S	70,000	70,000	70,000	150,000	100,000	300,000	100,000	100,000	100,000	70,000
PE-S	50,000	50,000	30,000	30,000	30,000	20,000	20,000	30,000	30,000	50,000
SB-S	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
SC-S	30,000	20,000	30,000	30,000	15,000	50,000	70,000	50,000	30,000	50,000
SN-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SR-S	700,000	700,000	700,000	500,000	500,000	700,000	700,000	700,000	700,000	1000,000
V-S	300,000	200,000	200,000	300,000	100,000	300,000	500,000	500,000	300,000	300,000
W-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
Y-S	50,000	50,000	30,000	50,000	20,000	50,000	70,000	50,000	50,000	70,000
ZN-S	-200,000	-200,000	-200,000	NAC DET.	-200,000	-200,000	-200,000	-200,000	NAC DET.	-200,000
ZR-S	500,000	500,000	300,000	700,000	200,000	500,000	700,000	700,000	500,000	500,000
CU-AA	55,000	35,000	50,000	+1000,000	40,000	35,000	170,000	100,000	150,000	60,000
PE-AA	25,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	25,000
ZN-AA	50,000	40,000	50,000	55,000	45,000	45,000	30,000	30,000	40,000	50,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CD-AA										
TE-AA										
AU-AA	0,350	0,100	NAC DET.	0,100	NAO DET.	NAO DET.	NAO DET.	NAO DET.	0,150	0,250
TI-CCL %										
HA-IAS										

SCLOS DE PERFIS HCP.A PALMAS

NUM. LAB.	JAE029	JAEC30	JAEC31	JAEC32	JAE033	JAF034	JAE035	JAF036	JAF037	JAF038
NUM. CAMPO	CK0618	CK0619	CK0620	CK0621	CK0622	CK0623	CK0624	CK0625	CK0626	CK0627
C. CLSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300
PROCEDENCIA	AD	AD	AD	AD	AD	AD	AD	AD	AD	AD
BASE CART.	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2
BASE CART.										
BASE CART.										
ESCALA	C050	C050	C050	C050	C050	C050	C050	C050	C050	C050
DATA	10/75	10/75	10/75	10/75	10/75	10/75	10/75	10/75	10/75	10/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	773252	773254	773258	773266	773282	773282	773314	773314	773248	773246
UTM - LONG.	06602850	06602850	06602850	06602850	06602850	06602850	06602850	06602850	06602850	06602850
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	L	L	L	L	L	L	L	L	L	L
TIPC AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	F	F	F	F	F	F	F	F	F	F
ROCHA REC.	N	N	N	N	N	N	N	N	C	C
ID. GECLOG.	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
MAT. CCLET.	SOLO	SOLO	SCLC	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SCLC
PLUVIOSIDADE	A	A	A	A	A	A	A	A	A	A
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TCPCG.	D	D	D	D	D	D	D	D	D	D
SIT. AMOST.										
ALTITUDE										
PROF. AMOST.	0,05	0,05	0,05	0,05	0,05	0,05	0,05	0,05	0,05	0,05
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PPEC.										
GRAU INTEMP.										
TIPC ALTER.										
TIPO MINER.										
DEP. OCCOR.										
LARGURA RIO										
PROFUND. RIO										
VELOC. CORR.										
NIVEL AGUA										
AREA CRENAG.										
TURB. AGUA										
POS. CCLETA										
COR AGUA										
GRAU AFREC.										
VOL. FRIGIN.										
PESO CCNC.										
GRANULOMET.										
TEXT. SEDIM.	24 31	24 31	24 31	14 32	24 31	24 31	24 31	15 31	14 32	14 32
COR SEC./SL.	C	C	C	C	C	C	C	C	C	C
HORIZ. SCLO	A	A	A	A	A	A	A	A	A	A
TIPO SCLO	C	C	C	C	C	C	C	C	C	C

SISTEMA DE ESTATISTICA DE AMOSTRAGEM

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FOLHA DE CONTROLE - PROGRAMA PRCQMCC7

\*\*\* OPCOES \*\*\*

0 0 0 0 0 0 0 0 0

ARQUIVO

FS193170

AMOSTRAS LIDAS	38
AMOSTRAS IMPRESSAS	38
N. INICIAL DA PAGINA	1
N. FINAL DA PAGINA	12
N. DE AMOSTRA INICIAL	
N. DE AMOSTRAS FINAL	





S E A G

PROJETO EVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

SOLOS - BACKEPCUNC - HCR.A PALMAS

NUM. LAB.	JAEC65	JAF066	JAEC67	JAE068	JAE069	JAF070	JAEC71	JAEC72	JAEC73	JAF074
NUM. CAMPO	CK0666	CK0667	CK0668	CK0669	CK0670	CK0671	CK0672	CK0673	CK0674	CK0675
AMB. BIOTICO										

PARAMETROS ANALITICOS DE CAMPO

EH										
PF										
METAL TOTAL										
CODIF. LIVRE	PC071	PC081	PCC91	F0131	P0101	P0111	PC121	PC141	PC151	P0161

PARAMETROS ANALITICOS

FE-S %	10,000	15,000	7,000	5,000	7,000	5,000	3,000	3,000	2,000	3,000
MG-S %	1,500	2,000	2,000	0,700	0,500	0,500	0,500	0,500	0,500	0,700
CA-S %	2,000	7,000	1,000	1,000	0,500	0,500	0,700	1,000	1,500	0,700
TI-S %	+1,000	+1,000	1,000	+1,000	+1,000	1,000	+1,000	+1,000	+1,000	1,000
MN-S	2000,000	2000,000	1000,000	1000,000	1000,000	300,000	1000,000	1500,000	1500,000	300,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AL-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	20,000	20,000	50,000	70,000	70,000	50,000	50,000	70,000	70,000	70,000
BA-S	1000,000	700,000	700,000	700,000	700,000	1000,000	700,000	1000,000	1000,000	1000,000
BE-S	1,500	-1,000	1,500	1,500	1,000	1,000	1,000	1,000	1,000	1,000
BI-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CC-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	30,000	50,000	20,000	20,000	15,000	15,000	15,000	15,000	10,000	10,000
CR-S	500,000	500,000	700,000	150,000	500,000	100,000	200,000	300,000	200,000	150,000
CU-S	-50,000	50,000	50,000	10,000	70,000	50,000	20,000	30,000	30,000	15,000
LA-S	20,000	20,000	30,000	50,000	30,000	30,000	30,000	30,000	30,000	30,000
MO-S	NAO DET.	NAO DET.	NAO DET.	-5,000	-5,000	NAO DET.	NAO DET.	-5,000	NAO DET.	-5,000
NB-S	20,000	20,000	30,000	30,000	30,000	20,000	30,000	30,000	30,000	30,000
NI-S	50,000	100,000	500,000	50,000	150,000	50,000	70,000	150,000	70,000	70,000
PE-S	-30,000	15,000	50,000	20,000	50,000	15,000	15,000	20,000	20,000	30,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	30,000	70,000	20,000	20,000	30,000	15,000	20,000	20,000	20,000	20,000
SN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SR-S	300,000	700,000	100,000	100,000	-100,000	100,000	-100,000	150,000	200,000	100,000
V-S	200,000	500,000	150,000	100,000	200,000	150,000	150,000	100,000	150,000	100,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	30,000	70,000	70,000	70,000	50,000	20,000	50,000	30,000	30,000	20,000
ZN-S	-200,000	-200,000	NAO DET.	-200,000	-200,000	-200,000	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	500,000	500,000	1000,000	1000,000	1000,000	700,000	1000,000	1000,000	700,000	700,000
CU-AA	20,000	20,000	20,000	10,000	30,000	25,000	20,000	15,000	15,000	10,000
PE-AA	15,000	15,000	15,000	20,000	20,000	15,000	15,000	10,000	10,000	20,000
ZN-AA	50,000	45,000	30,000	25,000	30,000	25,000	40,000	25,000	25,000	30,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CD-AA										
TE-AA										
AU-AA	-0,050	NAO DET.	-0,050	-0,050	-0,050	0,100	NAO DET.	NAO DET.	NAO DET.	NAO DET.
TI-CCL %										
HG-INS										

S E A G

PROJETO LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

SOLOS - BACKGROUND - HOR. A PALMAS

NUM. LAB.	JAE065	JAE066	JAE067	JAE068	JAE069	JAE070	JAE071	JAE072	JAE073	JAE074
NUM. CAMPO	CK0666	CK0667	CK0668	CK0669	CK0670	CK0671	CK0672	CK0673	CK0674	CK0675
C. CUSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CUSTO	300	300	300	300	300	300	300	300	300	300
PROCECENCIA	AD	AD	AD	AD	AD	AD	AD	AD	AD	AD
BASE CART.	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2
BASE CART.										
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	10/75	10/75	10/75	10/75	10/75	10/75	10/75	10/75	10/75	10/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	771680	771260	770630	769780	769950	769600	770050	769250	769270	769250
UTM - LONG.	06602850	06603350	06603850	06603550	06604800	06604500	06603850	06604600	06604100	06603600
MER. CNT.	51	51	51	51	51	51	51	51	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	L	L	L	L	L	L	L	L	L	L
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	F	F	F	F	F	F	F	F	F	F
ROCHA REC.	C	C	C	C	C	C	C	C	C	C
ID. GEOLOG.	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
MAT. COLET.	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO
PLUVIOSIDADE	A	A	A	A	A	A	A	A	A	A
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.	D	D	D	D	D	D	D	D	D	D
SIT. AMOST.										
ALTITUDE										
PROF. AMOST.	0,10	0,10	0,10	0,10	0,10	0,10	0,10	0,10	0,10	0,10
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCR.										
LARGURA FIO										
PROFUND. RIO										
VELOC. CCCR.										
NIVEL AGLA										
AREA DRENAG.										
TURB. AGLA										
POS. COLETA										
COR AGLA										
GRAU ARRED.										
VCL. CRIGIN.										
PESO CCNC.										
GRANULOMET.										
TEXT. SEDIM.	53 2	53 2	143 2	152 2	152 2	152 2	152 2	152 2	152 2	152 2
COR SEC./SL.	E	E	E	E	E	E	E	E	E	E
HORIZ. SOLO	A	A	A	A	A	A	A	A	A	A
TIPO SOLO	C	C	C	C	C	C	C	C	C	C

FOLHA DE CONTROLE - PROGRAMA PRGQMCC7

\*\*\* O P C O E S \*\*\* ARQUIVO  
0 0 0 0 0 0 0 0 0 0 FS193160

AMOSTRAS LIDAS 10  
AMOSTRAS IMPRESSAS 10  
N. INICIAL DA PAGINA 1  
N. FINAL DA PAGINA 3  
N. DE AMOSTRA INICIAL  
N. DE AMOSTRAS FINAL

CONCENTRACAO DE BATEIA PALMAS

NUM. LAB.	JAE142	JAE143	JAE144	JAE145	JAE146	JAE147	JAE148	JAE149
NUM. CAMFO	CG0181	CG0183	CK0655	CK0657	CK0659	CK0661	CK0663	CK0665
OX.FERRO	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
	< 5%	< 5%	20%-5%	60%-20%	60%-20%	< 5%	60%-20%	60%-20%
P TOT(G)	27,500	9,700	24,700	67,700	108,800	106,500	108,700	102,600
P CPT(G)	1,200	1,500	3,500	10,000	7,600	15,900	8,600	8,100
P COC(G)	0,600	1,200	0,200	0,800	0,900	0,500	0,500	0,200

76h



CONCENTRACOES DE BATEIA PALMAS

NUM. LAB.	JAE142	JAE143	JAE144	JAE145	JAE146	JAE147	JAE148	JAE149
NUM. CAMPO	CG0181	CG0183	CK0255	CK0657	CK0659	CK0661	CK0663	CK0665
ILMENITA	20%-5%	60%-20%	20%-5%	< 5%	< 5%	< 5%	< 5%	< 5%
LIMONITA	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.
CASSIT.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.
COL-TAN.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.
VOLFRAM.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.
SCHEEL.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.
OX.-MAN.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
RUTILO	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%
CROMITA	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.
MONAZITA	20%-5%	20%-5%	< 5%	< 5%	< 5%	NAO DET.	NAO DET.	NAC DET.
ZIRCOO	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%
XENOT.	NAO DET.	< 5%	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.
ANATASIO	NAC DET.	< 5%	NAC DET.	NAC DET.	< 5%	NAO DET.	< 5%	NAO DET.
PIROCL.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
MICROL.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
OURO	NAO DET.	< 5%	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.
ARS.PJR.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.
PIRITA	NAO DET.	< 5%	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
MARCASS.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.
CALCOP.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
GALENA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.
ESFAREL.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.
CINABRIO	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.
MOLIBD.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.
DIAMANTE	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.
TOPAZIO	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.
GRANADA	20%-5%	20%-5%	< 5%	< 5%	< 5%	< 5%	NAO DET.	NAO DET.
PIROXEN.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ANFIBOL.	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%
MI-CLOF.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.
TURMAL.	< 5%	< 5%	< 5%	< 5%	NAC DET.	< 5%	< 5%	< 5%
CIANITA	< 5%	< 5%	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
ESTOUR.	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	NAC DET.	NAO DET.
ANCALUZ.	NAO DET.	< 5%	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
SILIMAN.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
EPIDOTO	60%-20%	60%-20%	20%-5%	< 5%	< 5%	> 60%	> 60%	60%-20%
CORINDON	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
TITANITA	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.
GARNITA	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
FSPINEL.	< 5%	20%-5%	< 5%	< 5%	NAO DET.	NAO DET.	NAC DET.	NAO DET.
MIN-BER.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.
MIN-LIT.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.
GLAUCON.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.
FCSFATC	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.
OLIVINA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
LEUCCX.	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%
CARCON.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.
APATITA	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
BARITINA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.
FLUORITA	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
BROOKITA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
MICAS	NAO DET.	< 5%	< 5%	NAC DET.	< 5%	< 5%	NAO DET.	NAO DET.
FRAG. RCH	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.

S E A G

PROJET LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

CONCENTRADOS DE BATEIA PALMAS

NUM. LAB.	JAE142	JAE143	JAE144	JAE145	JAE146	JAE147	JAE148	JAE149
NUM. CAMPO	CG0181	CG0183	CK0655	CK0657	CK0659	CK0661	CK0663	CK0665
AMB. BIOTICO								

PARAMETROS ANALITICOS DE CAMPO

EH								
PH			6,0	6,0	6,0	6,0	6,0	
METAL TOTAL								
CODIF. LIVRE	PB411	PB421	FBC11	PB021	PB031	PBC41	PB051	FBC61

PARAMETROS ANALITICOS

FE-S %	15,000	+20,000	10,000	3,000	5,000	2,000	3,000	2,000
MG-S %	0,200	0,700	1,000	0,300	0,300	0,500	0,200	0,200
CA-S %	20,000	3,000	5,000	1,500	1,500	1,000	1,500	0,700
TI-S %	+1,000	+1,000	1,000	0,500	0,500	0,150	0,300	0,150
MN-S	2000,000	3000,000	1000,000	700,000	700,000	500,000	300,000	500,000
AG-S	NAC DET.	NAC DET.	-0,500	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AS-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AU-S	NAC DET.	-10,000	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
B-S	150,000	NAC DET.	20,000	10,000	10,000	10,000	10,000	10,000
BA-S	200,000	150,000	300,000	200,000	200,000	300,000	150,000	150,000
BE-S	-1,000	7,000	1,000	3,000	3,000	2,000	3,000	5,000
BI-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
CD-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
CO-S	5,000	INTERFER.	10,000	7,000	5,000	10,000	5,000	5,000
CR-S	5000,000	+5000,000	5000,000	1000,000	700,000	50,000	200,000	30,000
CU-S	10,000	30,000	200,000	7,000	7,000	5,000	5,000	5,000
LA-S	NAC DET.	200,000	20,000	20,000	50,000	20,000	30,000	-20,000
MO-S	NAC DET.	15,000	7,000	5,000	10,000	NAC DET.	5,000	NAC DET.
NB-S	20,000	150,000	100,000	50,000	50,000	10,000	30,000	10,000
NI-S	15,000	300,000	150,000	10,000	7,000	10,000	5,000	5,000
PB-S	10,000	50,000	70,000	70,000	70,000	50,000	50,000	70,000
SB-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
SC-S	10,000	INTERFER.	INTERFER.	7,000	7,000	5,000	-5,000	-5,000
SN-S	10,000	50,000	30,000	-10,000	10,000	NAC DET.	20,000	NAC DET.
SR-S	100,000	-100,000	100,000	100,000	100,000	100,000	100,000	NAC DET.
V-S	150,000	300,000	100,000	100,000	100,000	70,000	100,000	100,000
W-S	-50,000	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
Y-S	30,000	1000,000	150,000	70,000	150,000	20,000	70,000	10,000
ZN-S	-200,000	1000,000	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
ZR-S	500,000	+1000,000	+1000,000	1000,000	+1000,000	200,000	1000,000	100,000
CU-AA								
PB-AA								
ZN-AA								
AG-AA								
CO-AA								
NI-AA								
BI-AA								
CC-AA								
TE-AA								
AU-AA	0,400		0,800	-0,050	-0,050	NAC DET.	-0,050	NAC DET.
MAGNET.	< 5%	20%-5%	60%-20%	20%-5%	20%-5%	20%-5%	20%-5%	< 5%
HEMATITA	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.

S E A G

PROJETO LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CLSTO - 1533.300

## CONCENTRACCS DE BATEIA PALMAS

NUM. LAB.	JAE142	JAE143	JAE144	JAE145	JAE146	JAE147	JAE148	JAE149
NUM. CAMPO	CG0181	CG0183	CK0655	CK0657	CK0659	CK0661	CK0663	CK0665
C. CUSTO	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300
PROCEDENCIA	AD	AD	AC	AD	AD	AC	AD	AD
BASE CART.	SH.21-R-	SH.21-R-	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2
BASE CART.	IV-2	IV-2						
BASE CART.								
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050
DATA	10/75	10/75	10/75	10/75	10/75	10/75	10/75	10/75
LATITUDE								
LONGITUDE								
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	660460	660516	770670	770650	770670	770480	770320	771500
UTM - LONG.	07695000	07692900	06604070	06603220	06602560	06602500	06601250	06601640
MER. CENT.	51	51	51	51	51	51	51	51

## PARAFETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	B	B	B	B	B	B	B	B
TIPO AMOST.	A	A	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L
ROCHA REC.	C	C	C	C	C	C	C	C
ID. CENLCC.			AS	AS	AS	AS	AS	AS
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOLOGIA	A	A	A	A	A	A	A	A
TIPO VEGET.	A	A	A	A	A	A	A	A
SIT. TOPOG.	D	D	C	C	C	C	C	C
SIT. AMOST.	C	C	C	C	C	C	C	C
ALTITUDE								
PROF. AMOST.	0,30	0,30	0,20	0,20	0,20	0,20	0,10	0,20
FORMA IGNEA								
SIT. ESTRUT.								
MATRIZ PREC.								
GRAU INTERR.								
TIPO ALTER.								
TIPO MINER.								
DEP. COCCO.								
LARGURA RIO	1	8	4	3	2	2	2	2
PROFUND. RIO	0,3	0,5	0,3	0,3	0,2	0,2	0,2	0,2
VELOC. CORR.	2	3	2	2	2	2	2	2
NIVEL AGUA	2	2	2	2	2	2	2	2
AREA OPENAG.	1	2	2	2	1	1	1	1
TURB. AGUA	1	1	1	1	1	1	1	1
PCS. COLETA	C	C	C	C	C	C	C	C
COR AGUA	A	A	A	A	A	A	A	A
GRAU ARREC.	B	B	C	C	C	C	C	C
VOL. CRIGIN.	5	5	5	5	5	5	5	5
PESO CONC.	39	15	31	83	137	132	137	134
GRANULOMET.								
TEXT. SEDIM.	7111	19	18 1	18 1	18 1	18 1	18 1	18 1
COR SEC./SL.			I	I	I	I	I	I
HORIZ. SCLO								
TIPO. SCLC								



CONCENTRACCS DE BATEIA PALMAS

NUM. LAB.	JAE132	JAE133	JAE134	JAE135	JAE136	JAE137	JAF138	JAE139	JAE140	JAF141
NUM. CAMPO	CG0160	CG0162	CG0164	CG0167	CG0169	CG0171	CGC173	CGC175	CGC177	CG0179
	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
OX.FERRO	< 5%	< 5%	< 5%	20%-5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%
P TOT(G)	15,700	10,000	24,300	20,600	31,800	26,800	5,600	28,200	28,200	10,600
P QRT(G)	12,100	4,500	18,700	15,700	14,800	12,600	7,500	12,500	13,000	1,600
P CCC(G)	3,200	2,700	0,400	3,400	5,600	2,300	3,500	4,200	7,500	1,100



CONCENTRACOES DE BATEIA PALMAS

NUM. LAB.	JAE132	JAE133	JAE134	JAE135	JAF136	JAF137	JAF138	JAF139	JAF140	JAF141
NUM. CAMPO	CG0160	CG0162	CG0164	CG0167	CG0169	CG0171	CG0173	CG0175	CG0177	CG0179
ILMENITA	20%-5%	60%-20%	< 5%	< 5%	< 5%	< 5%	< 5%	60%-20%	60%-20%	60%-20%
LIMONITA	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
CASSIT.	< 5%	20%-5%	NAO DET.	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%
COL-TAN.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
VOLFRAM.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SCHEEL.	NAC DET.	< 5%	NAC DET.	< 5%	< 5%	NAC DET.	< 5%	< 5%	< 5%	< 5%
OX.-MAN.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
RUTILO	< 5%	< 5%	NAC DET.	< 5%	< 5%	< 5%	< 5%	< 5%	NAC DET.	< 5%
CPOMITA	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
MONAZITA	< 5%	< 5%	NAO DET.	< 5%	NAC DET.	NAO DET.	NAC DET.	< 5%	20%-5%	NAC DET.
ZIRCAO	< 5%	20%-5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%
XENOT.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
ANATASIO	< 5%	< 5%	NAO DET.	< 5%	< 5%	< 5%	< 5%	NAO DET.	< 5%	< 5%
PIROCL.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
MICROL.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
OURD	< 5%	< 5%	NAO DET.	< 5%	< 5%	< 5%	NAO DET.	NAO DET.	< 5%	< 5%
ARS.PYR.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
PIRITA	NAO DET.	< 5%	NAO DET.	< 5%	< 5%	< 5%	< 5%	< 5%	NAC DET.	< 5%
MARCASS.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CALCOP.	NAO DET.	< 5%	NAO DET.	< 5%	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
GALENA	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
ESFARL.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CINABRIO	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
MOLIBD.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
DIAMANTE	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
TOPAZIO	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
GRANATA	< 5%	20%-5%	< 5%	20%-5%	< 5%	< 5%	< 5%	< 5%	< 5%	20%-5%
PIROXEN.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
ANFIBOL.	< 5%	< 5%	20%-5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%
MI-CLOP.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
TURMAL.	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	NAO DET.	NAC DET.	< 5%
CIANITA	< 5%	< 5%	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	< 5%	< 5%	NAC DET.
ESTAUR.	< 5%	< 5%	< 5%	< 5%	NAO DET.	< 5%	NAO DET.	< 5%	< 5%	NAC DET.
ANDALUZ.	< 5%	< 5%	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	< 5%
SILIMAN.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	< 5%	< 5%	NAC DET.
EPICOTO	> 60%	60%-20%	60%-20%	60%-20%	60%-20%	60%-20%	60%-20%	60%-20%	60%-20%	60%-20%
CORINDON	< 5%	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
TITANITA	NAO DET.	NAO DET.	NAC DET.	NAO DET.	< 5%	NAO DET.	NAO DET.	NAO DET.	< 5%	NAC DET.
GAHNITA	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
ESPINEL.	< 5%	20%-5%	NAO DET.	20%-5%	60%-20%	20%-5%	60%-20%	< 5%	< 5%	< 5%
MIN-EEF.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
MIN-LIT.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
GLAUCCN.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
FOSFATO	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
OLIVINA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
LEUCOX.	NAO DET.	NAO DET.	20%-5%	< 5%	< 5%	< 5%	< 5%	NAO DET.	NAC DET.	< 5%
CARBCN.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
APATITA	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
BARITINA	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
FLUORITA	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
BROOKITA	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
MICAS	NAO DET.	NAO DET.	< 5%	< 5%	NAC DET.	< 5%	NAO DET.	NAO DET.	NAC DET.	NAC DET.
FRAG. RCF	NAC DET.	NAO DET.	< 5%	< 5%	< 5%	20%-5%	< 5%	NAO DET.	NAC DET.	NAC DET.

CONCENTRACCS DE BATEIA PALMAS

NUM. LAB. NUM. CAMPO AMB. BIOTICO	JAE132 CG0160	JAF133 CG0162	JAE134 CG0164	JAE135 CG0167	JAE136 CG0169	JAF137 CG0171	JAF138 CG0173	JAE139 CG0175	JAF140 CG0177	JAF141 CG0179
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PARAMETROS ANALITICOS DE CAMPO

EP PF METAL TOTAL CODIF. LIVRE	PB301	PB311	PB321	PB341	PB351	PB361	PB371	PB381	PB391	PB401
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PARAMETROS ANALITICOS

FE-S %	10,000	+20,000	1,500	5,000	10,000	7,000	15,000	10,000	20,000	+20,000
MG-S %	0,700	0,700	0,200	0,500	1,000	0,700	0,700	0,700	1,000	0,700
CA-S %	3,000	2,000	0,700	2,000	3,000	2,000	3,000	2,000	7,000	5,000
TI-S %	1,000	+1,000	0,200	1,000	+1,000	0,700	+1,000	1,000	+1,000	+1,000
M/J-S	1500,000	1500,000	300,000	1500,000	2000,000	1000,000	2000,000	2000,000	3000,000	2000,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	10,000	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	10,000	-10,000	10,000	10,000	10,000	10,000	10,000	-10,000	30,000	10,000
BA-S	500,000	200,000	200,000	500,000	500,000	300,000	300,000	300,000	200,000	200,000
BE-S	1,500	-1,000	1,000	5,000	-1,000	1,500	1,000	1,000	-1,000	-1,000
BI-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	30,000	INTERFER.	-5,000	10,000	50,000	15,000	30,000	30,000	INTERFER.	INTERFER.
CR-S	+5000,000	+5000,000	1000,000	+5000,000	+5000,000	+5000,000	+5000,000	+5000,000	+5000,000	+5000,000
CU-S	30,000	100,000	5,000	10,000	10,000	10,000	10,000	30,000	10,000	50,000
LA-S	20,000	200,000	30,000	-20,000	70,000	30,000	100,000	-20,000	NAO DET.	150,000
MO-S	10,000	20,000	5,000	7,000	NAO DET.	15,000	15,000	7,000	NAO DET.	10,000
NB-S	70,000	100,000	10,000	20,000	20,000	20,000	50,000	30,000	30,000	150,000
NI-S	100,000	300,000	20,000	50,000	150,000	70,000	150,000	100,000	200,000	200,000
PE-S	20,000	15,000	15,000	20,000	70,000	20,000	20,000	20,000	10,000	20,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	INTERFER.	INTERFER.	NAO DET.	10,000	20,000	10,000	INTERFER.	10,000	INTERFER.	INTERFER.
SN-S	700,000	+1000,000	10,000	50,000	+1000,000	+1000,000	300,000	700,000	30,000	200,000
SR-S	300,000	150,000	-100,000	300,000	300,000	200,000	500,000	200,000	500,000	150,000
V-S	200,000	300,000	50,000	150,000	200,000	150,000	200,000	200,000	300,000	500,000
W-S	NAO DET.	-50,000	NAO DET.	NAO DET.	NAO DET.	-50,000	NAO DET.	NAO DET.	50,000	NAO DET.
Y-S	200,000	700,000	10,000	100,000	50,000	50,000	300,000	200,000	150,000	1000,000
ZN-S	300,000	1000,000	NAO DET.	200,000	300,000	200,000	1000,000	700,000	1000,000	1500,000
ZR-S	+1000,000	+1000,000	100,000	1000,000	500,000	500,000	+1000,000	1000,000	+1000,000	+1000,000
CU-AA										
PE-AA										
ZN-AA										
AG-AA										
CO-AA										
NI-AA										
BI-AA										
CD-AA										
TE-AA										
AU-AA										
MAGNET.	20%-5%	20%-5%	-0,100	20%-5%	20%-5%	< 5%	20%-5%	20%-5%	20%-5%	20%-5%
HEMATITA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.



S E A G

PROJETO LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

## CONCENTRADOS DE BATEIA PALMAS

NUM. LAB.	JAE132	JAE133	JAE134	JAE135	JAE136	JAE137	JAE138	JAE139	JAE140	JAE141
NUM. CAMPO	CG0160	CG0162	CG0164	CG0167	CG0169	CG0171	CG0173	CG0175	CG0177	CG0179
C. CUSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CUSTO	300	300	300	300	300	300	300	300	300	300
PROVENIENCIA	AD	AD	AD	AD	AD	AD	AD	AD	AD	AD
BASE CART.	SH.21-R-	SH.21-R-	SH.21-R-	SH.21-R-	SH.21-R-	SH.21-R-	SH.21-R-	SH.21-R-	SH.21-R-	SH.21-R-
BASE CART.	IV-2	IV-2	IV-2	IV-2	IV-2	IV-2	IV-2	IV-2	IV-2	IV-2
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	10/75	10/75	10/75	10/75	10/75	10/75	10/75	10/75	10/75	10/75
LATITUDE										
LONGITUDE										
ABSCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	660355	660368	660395	660402	660420	660411	660429	660448	660486	660489
UTM - LONG.	07720400	07719600	07718400	07713400	07713900	07710800	07710000	07704800	07705700	07699000
MER. CENT.	51	51	51	51	51	51	51	51	51	51

## PARÂMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	B	B	B	B	B	B	B	B	B	B
TIPO AMOST.	A	A	A	A	A	A	A	A	A	A
FCNTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REC.	C	C	C	C	C	C	C	C	C	C
ID. GEOLÓG.										
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	A	A	A	A	A	A	A	A	A	A
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TCPCG.	D	D	C	D	D	C	D	D	D	D
SIT. AMOST.	C	C	B	C	C	C	C	C	C	C
ALTITUDE										
PROF. AMOST.	0,30	0,30	0,30	0,30	0,40	0,30	0,30	0,30	0,30	0,30
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PRED.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. QUCCR.										
LARGURA RIO	7	6	6	6	2	7	7	7	6	7
PROFUND. RIO	0,4	0,4	0,4	0,5	0,2	0,5	0,5	0,5	0,4	0,5
VELOC. CORR.	3	3	3	3	2	2	2	3	3	3
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA DRENAG.	2	2	2	2	1	2	2	2	2	2
TURB. AGUA	1	1	1	1	1	1	1	1	1	1
POS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	A	A	A	A	A	A	A	A	A	A
GRAU ARREC.	B	B	B	B	B	B	B	B	B	B
VCL. OFIGIN.	5	5	5	5	5	5	5	5	5	5
PESO CONC.	26	20	36	34	48	40	18	38	39	17
GRANULOMET.										
TEXT. SEDIM.	4321	271	28	19	28	28	26110	51	2611	19
COR SEC./SL.										
HORIZ. SELO										
TIPO SELO										

CONCENTRACAO DE BATEIA FALMAS

NUM. LAB.	JAE122	JAE123	JAE124	JAE125	JAE126	JAE127	JAF128	JAF129	JAE130	JAF131
NUM. CAMFO	CG0126	CG0131	CG0133	CG0136	CG0140	CG0141	CG0146	CG0151	CG0155	CG0158
	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
OX.FERRO	< 5%	20%-5%	< 5%	< 5%	< 5%	< 5%	< 5%	20%-5%	< 5%	< 5%
P TOT(G)	14,100	32,700	13,700	5,200	23,800	15,800	22,500	15,400	6,600	31,500
P ORT(G)	10,800	NAC DET.	NAC DET.	NAC DET.	3,400	4,400	3,200	4,000	NAC DET.	4,500
P COC(G)	5,500	1,000	10,300	4,500	1,000	1,600	2,600	2,500	2,800	3,800



CONCENTRAÇÕES DE BATEIA PALMAS

NUM. LAB.	JAE122	JAF123	JAE124	JAE125	JAF126	JAE127	JAE128	JAE129	JAF130	JAF131
NUM. CAMPO	CG0126	CG0131	CG0133	CG0136	CG0140	CG0141	CG0146	CG0151	CG0155	CG0158
ILMENITA	20%-5%	< 5%	20%-5%	20%-5%	60%-20%	60%-20%	60%-20%	< 5%	< 5%	< 5%
LIMONITA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CASSITA	< 5%	< 5%	< 5%	< 5%	NAO DET.	< 5%	< 5%	< 5%	< 5%	< 5%
COL-TAN.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
VOLFRAM.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SCHEEL.	NAO DET.	NAO DET.	< 5%	< 5%	NAO DET.	NAO DET.	< 5%	< 5%	< 5%	< 5%
OX.-MAN.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
RUTILO	< 5%	< 5%	< 5%	< 5%	NAO DET.	NAO DET.	NAO DET.	< 5%	NAO DET.	< 5%
CROMITA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
MCNAZITA	NAO DET.	< 5%	NAO DET.	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%
ZIRCON	< 5%	20%-5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%
XENOT.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ANATASIO	NAO DET.	< 5%	NAO DET.	< 5%	< 5%	NAO DET.	< 5%	< 5%	NAO DET.	NAO DET.
PIROCL.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
MICROL.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
OUFO	NAO DET.	NAO DET.	< 5%	< 5%	< 5%	NAO DET.	NAO DET.	NAO DET.	< 5%	< 5%
ARS.PIR.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
PIRITA	NAO DET.	NAO DET.	< 5%	< 5%	NAO DET.	NAO DET.	NAO DET.	< 5%	< 5%	< 5%
MARCASS.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CALCOP.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	< 5%	NAO DET.	< 5%
GALENA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ESFAREL.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CINABRIO	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
MOLIBD.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
DIAMANTE	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
TOPAZIO	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
GRANADA	< 5%	< 5%	< 5%	< 5%	< 5%	NAO DET.	60%-20%	< 5%	20%-5%	< 5%
PIROXEN.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ANFIBOL.	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	NAO DET.	< 5%	< 5%	< 5%
MI-CLOF.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
TURMAL.	< 5%	< 5%	< 5%	< 5%	NAO DET.	NAO DET.	NAO DET.	< 5%	NAO DET.	NAO DET.
CIANITA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	< 5%	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ESTAUR.	< 5%	< 5%	NAO DET.	< 5%	< 5%	< 5%	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ANCALUZ.	NAO DET.	NAO DET.	NAO DET.	< 5%	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SILIMAN.	NAO DET.	NAO DET.	NAO DET.	< 5%	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
EPIDOT.	< 5%	60%-20%	20%-5%	< 5%	20%-5%	60%-20%	20%-5%	20%-5%	20%-5%	20%-5%
CORINCON	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	< 5%	< 5%	< 5%
TITANITA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
GAHNITA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ESPINEL.	60%-20%	20%-5%	60%-20%	60%-20%	< 5%	< 5%	< 5%	60%-20%	60%-20%	60%-20%
MIN-BEF.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
MIN-LIT.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
GLAUCON.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
FOSFAT.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
OLIVINA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
LEUCOX.	NAO DET.	< 5%	NAO DET.	< 5%	NAO DET.	< 5%	< 5%	< 5%	< 5%	< 5%
CARBON.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	< 5%	< 5%	NAO DET.
APATITA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
BARITINA	< 5%	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
FLUORITA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
BROCKITA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
MICAS	NAO DET.	< 5%	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	< 5%	NAO DET.
FRAG. RCH.	NAO DET.	< 5%	< 5%	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	< 5%	NAO DET.

S E A G

PROJETO LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

CONCENTRACCS DE BATEIA PALMAS

NUM. LAB. NUM. CAMPO AMB. BIOTICO	JAE122 CG0126	JAF123 CG0131	JAE124 CG0133	JAE125 CG0136	JAE126 CG0140	JAE127 CG0141	JAE128 CG0146	JAE129 CG0151	JAF130 CG0155	JAE131 CG0158
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PARAMETROS ANALITICOS DE CAMPO

EP										
PH									7,0	
METAL TOTAL COEF. LIVRE	PB071	PB101	PB111	PB131	PB171	PB1E1	PB201	PB241	PB271	PB291

PARAMETROS ANALITICOS

FF-S %	20,000	2,000	20,000	+20,000	10,000	10,000	20,000	+20,000	1,500	+20,000
MG-S %	0,200	0,070	0,500	0,500	0,500	0,700	0,700	0,500	0,500	0,700
CA-S %	0,100	0,150	0,500	0,300	1,500	2,000	2,000	1,000	0,700	0,700
TI-S %	+1,000	0,300	1,000	1,000	1,000	1,000	+1,000	+1,000	0,300	+1,000
MN-S	1500,000	200,000	1500,000	2000,000	2000,000	2000,000	2000,000	3000,000	300,000	3000,000
AG-S	50,000	NAO DET.	5,000	10,000	NAO DET.	0,500	NAO DET.	NAO DET.	NAO DET.	-0,500
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AL-S	NAO DET.	NAO DET.	20,000	50,000	NAO DET.	NAO DET.	10,000	NAO DET.	NAO DET.	20,000
B-S	20,000	10,000	-10,000	-10,000	20,000	20,000	-10,000	NAO DET.	10,000	-10,000
BA-S	1000,000	150,000	150,000	50,000	300,000	500,000	500,000	300,000	500,000	150,000
BE-S	2,000	2,000	-1,000	-1,000	1,000	1,000	-1,000	-1,000	2,000	-1,000
BI-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CC-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	30,000	-5,000	INTERFER.	INTERFER.	30,000	20,000	INTERFER.	INTERFER.	5,000	INTERFER.
CR-S	+5000,000	3000,000	+5000,000	+5000,000	+5000,000	+5000,000	+5000,000	+5000,000	1000,000	+5000,000
CU-S	7,000	5,000	10,000	-5,000	70,000	300,000	10,000	200,000	15,000	30,000
LA-S	500,000	20,000	NAO DET.	150,000	20,000	20,000	700,000	150,000	NAO DET.	150,000
MO-S	20,000	7,000	20,000	15,000	50,000	50,000	50,000	30,000	5,000	70,000
NE-S	200,000	30,000	200,000	50,000	30,000	50,000	100,000	70,000	10,000	150,000
NI-S	50,000	7,000	300,000	200,000	100,000	150,000	200,000	300,000	30,000	300,000
PB-S	100,000	20,000	10,000	15,000	30,000	30,000	20,000	15,000	20,000	20,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	INTERFER.	NAO DET.	7,000	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	NAO DET.	INTERFER.
SN-S	+1000,000	150,000	+1000,000	1000,000	50,000	+1000,000	+1000,000	+1000,000	50,000	+1000,000
SR-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	200,000	300,000	NAO DET.	100,000	150,000	NAO DET.
V-S	100,000	50,000	200,000	300,000	150,000	150,000	300,000	300,000	50,000	200,000
W-S	NAO DET.	NAO DET.	-50,000	-50,000	NAO DET.	70,000	70,000	-50,000	NAO DET.	70,000
Y-S	2000,000	100,000	200,000	300,000	150,000	150,000	1500,000	500,000	10,000	700,000
ZN-S	500,000	NAO DET.	700,000	2000,000	700,000	500,000	700,000	2000,000	NAO DET.	1500,000
ZR-S	+1000,000	1000,000	1000,000	+1000,000	+1000,000	+1000,000	+1000,000	+1000,000	100,000	+1000,000
CU-AA										
PE-AA										
ZN-AA										
AG-AA										
CO-AA										
NI-AA										
BI-AA										
CE-AA										
TE-AA										
AU-AA	-0,200	NAO DET.			-0,050		7,200	1,100		
MAGNET.	60%-20%	60%-20%	20%-5%	60%-20%	20%-5%	20%-5%	20%-5%	20%-5%	20%-5%	20%-5%
MAGNETITA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.



S E A G

PROJET LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

CONCENTRACCS DE BATEIA FALMAS

NUM. LAB.	JAE122	JAE123	JAE124	JAE125	JAE126	JAE127	JAE128	JAE129	JAE130	JAE131
NUM. CAMFO	CG0126	CG0131	CG0133	CG0136	CG0140	CG0141	CG0146	CG0151	CG0155	CG0158
C. CUSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CUSTO	300	300	300	300	300	300	300	300	300	300
PROCEENCIA	AD	AD	AE	AD	AD	AE	AD	AD	AD	AE
BASE CRT.	SH.21-R-	SH.21-R-	SH.21-R-	SH.21-R-	SH.21-R-	SH.21-R-	SH.21-R-	SH.21-R-	SH.21-R-	SH.21-R-
BASE CART.	IV-2	IV-2	IV-2	IV-2	IV-2	IV-2	IV-2	IV-2	IV-2	IV-2
BASE CART.										
FSCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	10/75	10/75	10/75	10/75	10/75	10/75	10/75	10/75	10/75	10/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	660175	660307	660325	660300	660244	660297	660278	660312	660334	660342
UTM - LONG.	07754800	07736500	07735300	07733100	07732600	07731600	07730200	07727300	07724600	07722100
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	B	B	B	B	B	B	B	B	B	B
TIPO AMOST.	A	A	A	B	A	A	A	A	A	A
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REC.	D	N	C	C	C	C	C	C	C	C
ID. GEOLG.										
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOLITOLG.	A	A	A	A	A	A	A	A	A	A
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.	D	D	C	D	D	D	D	D	D	C
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE										
PROF. AMOST.	0,20	0,40	0,30	0,30	0,30	0,30	0,30	0,30	0,30	0,30
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PPEC.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEF. COCCR.										
LARGURA RIO	2	3	5	5	5	5	2	6	6	6
PROFUND. RIO	0,3	0,3	0,5	0,5	0,5	0,5	0,3	0,3	0,4	0,4
VELCC. CORR.	3	2	3	3	3	3	2	3	3	3
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA CPENAG.	1	1	2	2	2	2	1	2	2	2
TURB. AGUA	1	1	1	1	1	1	1	1	1	1
PDS. COLETA	E	C	C	C	C	C	C	C	C	C
COR AGUA	A	A	A	A	A	A	A	A	A	A
GRAU ARREC.	C	B	B	B	B	B	B	B	B	B
VCL. ORIGIN.	8	8	5	5	5	5	5	5	5	5
PESO CONC.	23	48	24	13	38	32	34	29	17	42
GRANULOMET.										
TEXT. SEDIM.	37	28	28	19	28	28	28	37	280	28
COR SEC./SL.										
HORIZ. SCLO										
TIPC. SCLO										

C. 1

LISTAGEM DE AMOSTRAS

04.02.76

FLA. UNICA

SISTEMA DE ESTATISTICA DE AMOSTRAGEM

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FOLHA DE CONTROLE - PROGRAMA PRCONCC7

\*\*\* D P C O E S \*\*\*

ARQUIVO

0 0 0 0 0 0 C C 0 0

FS193430

AMOSTRAS LIDAS 28

AMOSTRAS IMPRESSAS 28

N. INICIAL DA PAGINA 1

N. FINAL DA PAGINA 12

N. DE AMOSTRA INICIAL

N. DE AMOSTRAS FINAL





S E A G

PROJETO LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

SEDIMENTOS DE CORRENTE PALMAS

NUM. LAB.	JAE113	JAE114	JAE115	JAE116	JAF117	JAE118	JAF119	JAF120	JAE121
NUM. CAMPO	CG0184	CG0185	CG0186	CK0654	CK0656	CK0658	CK0660	CK0662	CK0664
AMB. BIOTICO									

PARAMETROS ANALITICOS DE CAMPO

EH									
PH	7,0	7,0		6,0	6,0	6,0	6,0	6,0	6,0
METAL TOTAL									
COEF. LIVRE	PS431	PS432	FS441	PS011	PS021	PSC31	PE041	PSC51	PS061

PARAMETROS ANALITICOS

FE-S %	5,000	7,000	7,000	5,000	10,000	5,000	7,000	10,000	7,000
MG-S %	1,500	1,500	5,000	0,500	0,700	1,000	1,000	1,500	1,000
CA-S %	1,500	2,000	2,000	1,500	3,000	2,000	3,000	2,000	1,500
TI-S %	1,000	1,000	1,000	0,700	1,000	0,700	1,000	1,000	1,000
MN-S	1500,000	2000,000	2000,000	1000,000	1000,000	1500,000	2000,000	1500,000	1000,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.
AS-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.
AU-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
B-S	50,000	50,000	10,000	20,000	20,000	20,000	30,000	20,000	10,000
BA-S	700,000	1000,000	1000,000	300,000	500,000	500,000	700,000	500,000	500,000
BE-S	-1,000	1,000	1,000	3,000	3,000	3,000	3,000	5,000	3,000
BI-S	NAO DET.	NAO DET.	NAC DET.	-10,000	-10,000	NAC DET.	NAO DET.	NAC DET.	-10,000
CD-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.
CO-S	50,000	50,000	70,000	20,000	20,000	30,000	30,000	50,000	20,000
CR-S	2000,000	1000,000	2000,000	300,000	500,000	100,000	200,000	100,000	150,000
CU-S	30,000	50,000	50,000	15,000	15,000	15,000	20,000	50,000	30,000
LA-S	20,000	20,000	50,000	70,000	70,000	70,000	100,000	150,000	100,000
MO-S	NAO DET.	NAO DET.	NAO DET.	-5,000	5,000	-5,000	NAO DET.	NAO DET.	NAC DET.
NB-S	10,000	10,000	20,000	50,000	100,000	50,000	30,000	30,000	50,000
NI-S	70,000	100,000	300,000	20,000	30,000	50,000	50,000	50,000	30,000
PB-S	15,000	20,000	20,000	50,000	50,000	50,000	100,000	70,000	70,000
SB-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.
SC-S	20,000	20,000	20,000	20,000	20,000	20,000	20,000	30,000	20,000
SN-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.
SR-S	200,000	300,000	300,000	100,000	200,000	150,000	200,000	150,000	100,000
V-S	200,000	200,000	150,000	100,000	200,000	150,000	200,000	200,000	200,000
W-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.
Y-S	20,000	30,000	50,000	200,000	300,000	70,000	100,000	100,000	100,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.
ZR-S	100,000	300,000	300,000	+1000,000	+1000,000	500,000	700,000	700,000	700,000
CU-AA	20,000	25,000	25,000	15,000	10,000	15,000	15,000	25,000	20,000
PE-AA	15,000	15,000	20,000	20,000	20,000	20,000	20,000	25,000	25,000
ZN-AA	45,000	50,000	45,000	30,000	30,000	40,000	35,000	55,000	50,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA									
NI-AA									
BI-AA									
CD-AA									
TE-AA									
AU-AA	NAO DET.	2,000	INSUFIC.	NAO DET.	0,200	NAO DET.	NAO DET.	NAO DET.	-0,100
TI-CCL 2									
HG-INS									

S E A G

PROJET( LEVANTAMENTO GEOQUIMICO DO PGS

CENTRO DE CLSTO - 1533.300

SEDIMENTOS DE CORRENTE PALMAS

NUM. LAB.	JAE113	JAE114	JAE115	JAE116	JAE117	JAE118	JAE119	JAE120	JAE121
NUM. CAMPO	CG0184	CG0185	CG0186	CK0654	CK0656	CK0658	CK0660	CK0662	CK0664
C. CLSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300
PROCEDENCIA	AD	AD	AD	AD	AD	AD	AD	AD	AD
BASE CART.	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2	SH21RIV2
BASE CART.									
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	10/75	10/75	10/75	10/75	10/75	10/75	10/75	10/75	10/75
LATITUDE									
LONGITUDE									
ABSCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	660660	660660	660284	770670	770650	770670	770480	770330	771500
UTM - LONG.	07789000	07789000	07749200	06604070	06603220	06602560	06602500	06601250	06601640
MER. CENT.	51	51	51	51	51	51	51	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S
TIPO AMOST.	A	A	A	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L
ROCHA REC.	C	C	C	C	C	C	C	C	C
ID. GEOLOG.				AS	AS	AS	AS	AS	AS
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	A	A	A	A	A	A	A	A	A
TIPO VEGET.	A	A	A	A	A	A	A	A	A
SIT. TOPOG.	D	D	C	C	C	C	C	C	C
SIT. AMOST.	C	C	C	C	C	C	C	C	C
ALTITUDE									
PROF. AMOST.	0,20	0,20	0,10	0,20	0,20	0,20	0,20	0,10	0,20
FORMA IGNEA									
SIT. ESTRUT.									
MATRIZ PRED.									
GRAU INTENS.									
TIPO ALTER.									
TIPO MINER.									
DEP. COCCR.									
LARGURA RIO	1	1	2	4	3	2	2	2	2
PROFUNDE. RIO	0,3	0,3	0,3	0,3	0,3	0,2	0,2	0,2	0,2
VELOC. CORR.	2	2	2	2	2	2	2	2	2
NIVEL AGUA	2	2	2	2	2	2	2	2	2
AREA DRENAG.	1	1	1	2	2	1	1	1	1
TURB. AGUA	1	1	1	1	1	1	1	1	1
POS. COLETA	C	C	C	C	C	C	C	C	C
COR. AGLA	A	A	A	A	A	A	A	A	A
GRAU APREC.	B	B	B	C	C	C	C	C	C
VCL. CRICIN.									
PESO CCNC.									
GRANULOMET.									
TEXT. SEDIM.	271	271	91	18 1	18 1	18 1	18 1	18 1	18 1
COR. SEC./SL.	I	I	I	I	I	I	I	I	I
HORIZ. SCLC									
TIPO SCLC									





SEDIMENTOS DE CORRENTE PALMAS

NUM. LAB. NUM. CAMFO AMB. BIOTICO	JAE104 CG0166	JAE105 CG0168	JAE106 CG0170	JAE107 CG0172	JAE108 CG0174	JAE109 CG0176	JAE109A CG0176	JAE110 CG0178	JAE111 CG0180	JAE112 CG0182
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PARAMETROS ANALITICOS DE CAMPO

EH										
PH	6,5	7,0		6,5		6,5	6,5	6,5	7,0	
METAL TOTAL										
COEF. LIVRE	PS341	PS351	PS361	PS371	PS381	PS391	PS391	PS401	PS411	PS421

PARAMETROS ANALITICOS

FE-S %	5,000	7,000	5,000	5,000	3,000	10,000		2,000	5,000	5,000
MG-S %	1,500	2,000	0,700	1,000	1,000	1,500		0,700	0,700	1,000
CA-S %	2,000	5,000	2,000	2,000	2,000	2,000		2,000	2,000	2,000
TI-S %	0,700	1,000	1,000	0,700	0,700	1,000		0,500	1,000	1,000
MN-S	2000,000	3000,000	1500,000	2000,000	2000,000	2000,000		2000,000	1500,000	1500,000
AG-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.		NAO DET.	NAC DET.	NAC DET.
AS-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.		NAO DET.	NAC DET.	NAC DET.
AU-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.		NAO DET.	NAC DET.	NAC DET.
B-S	20,000	20,000	20,000	20,000	20,000	20,000		20,000	30,000	50,000
BA-S	1000,000	1000,000	500,000	1000,000	700,000	700,000		500,000	700,000	700,000
BE-S	3,000	1,000	2,000	3,000	3,000	2,000		3,000	1,000	3,000
BI-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.		-10,000	NAC DET.	NAC DET.
CD-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.		NAO DET.	NAC DET.	NAC DET.
CO-S	30,000	50,000	20,000	50,000	30,000	50,000		20,000	30,000	30,000
CR-S	200,000	2000,000	+5000,000	500,000	1000,000	200,000		700,000	200,000	2000,000
CU-S	20,000	20,000	15,000	20,000	15,000	70,000		50,000	50,000	30,000
LA-S	50,000	50,000	50,000	50,000	50,000	50,000		70,000	50,000	50,000
MO-S	5,000	NAO DET.	5,000	-5,000	-5,000	5,000		-5,000	NAC DET.	5,000
NB-S	20,000	10,000	30,000	20,000	30,000	30,000		30,000	30,000	30,000
NI-S	70,000	150,000	50,000	100,000	100,000	150,000		50,000	70,000	100,000
PE-S	20,000	20,000	30,000	30,000	50,000	20,000		30,000	20,000	50,000
SB-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.		NAO DET.	NAC DET.	NAC DET.
SC-S	20,000	30,000	20,000	20,000	20,000	20,000		10,000	20,000	20,000
SN-S	NAO DET.	NAO DET.	INTERFER.	NAC DET.	NAO DET.	NAC DET.		NAO DET.	NAC DET.	NAC DET.
SR-S	200,000	500,000	150,000	200,000	200,000	200,000		200,000	200,000	200,000
V-S	150,000	200,000	150,000	150,000	150,000	200,000		100,000	150,000	150,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.		NAO DET.	NAC DET.	NAC DET.
Y-S	70,000	50,000	200,000	70,000	200,000	50,000		70,000	50,000	100,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.		NAO DET.	NAC DET.	NAC DET.
ZR-S	300,000	300,000	+1000,000	300,000	+1000,000	300,000		300,000	300,000	700,000
CU-AA	25,000	20,000	20,000	20,000	15,000	35,000	25,000	30,000	30,000	20,000
PE-AA	25,000	20,000	20,000	20,000	20,000	20,000	20,000	15,000	20,000	15,000
ZN-AA	45,000	50,000	40,000	40,000	45,000	65,000	65,000	30,000	45,000	30,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CD-AA										
TE-AA										
AU-AA	NAO DET.	INSUFIC.	2,500	0,650	INSUFIC.	NAO DET.		NAC DET.	NAC DET.	0,250
TI-CCL %										
HG-INS										

S E A G

PROJETO FVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CLUSTO - 1533.300

SEDIMENTOS DE CORRENTE PALMAS

NUM. LAB.	JAE104	JAE105	JAE106	JAE107	JAE108	JAE109	JAE109A	JAE110	JAE111	JAE112
NUM. CAMPO	CG0166	CG0168	CG0170	CG0172	CG0174	CG0176	CG0176	CG0178	CG0180	CG0182
C. CLUSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLUSTO	300	300	300	300	300	300	300	300	300	300
PROFUNDIDADE	AD	AD	AD	AD	AD	AD	AD	AD	AD	AD
BASE CART.	SH-21-R-	SH-21-R-	SH-21-R-	SH-21-R-	SH-21-R-	SH-21-R-	SH-21-R-	SH-21-R-	SH-21-R-	SH-21-R-
BASE CART.	IV-2	IV-2	IV-2	IV-2	IV-2	IV-2	IV-2	IV-2	IV-2	IV-2
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	10/75	10/75	10/75	10/75	10/75	10/75	10/75	10/75	10/75	10/75
LATITUDE										
LONGITUDE										
ABSCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	660402	660420	660411	660439	660448	660486	660486	660489	660460	660516
UTM - LONG.	07713400	07713900	07710800	07710000	07704800	07705700	07705700	07695000	07695000	07692900
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPC AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	C	C	C	C	C	C	C	C	C	C
ID. GEOLG.										
MAT. CLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	A	A	A	A	A	A	A	A	A	A
TIPC VEGET.	E	A	A	A	A	A	A	A	A	A
SIT. TOPOG.	D	D	D	D	D	D	D	D	D	D
SIT. AMOST.	B	B	B	B	B	B	B	B	B	B
ALTITUDE										
PRCF. AMOST.										
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCC.										
LARGURA RIO	7	2	7	7	7	2	2	7	1	8
PROFUND. RIO	0,5	0,2	0,5	0,5	0,5	0,5	0,5	0,5	0,3	0,5
VELOC. CORR.	3	2	2	2	3	2	2	3	2	3
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA CRENAG.	2	1	2	2	2	1	1	2	1	2
TURB. AGUA	1	1	1	1	1	1	1	1	1	1
POS. CLETA	C	C	C	C	C	C	C	E	C	C
COR AGUA	A	A	A	A	A	A	A	A	A	A
GRAU ARREC.	B	B	B	B	B	B	B	B	B	B
VCL. ORIGIN.										
PESO CCNC.										
GRANULOMET.										
TEXT. SECTM.	91	91	91	91	91	91	91	91	82	91
COR SEC./SL.										
HORIZ. SCLO										
TIPO SCLC										





SEDIMENTOS DE COPRENTE PALMAS

NUM. LAB. NUM. CAMPO AMB. BIOTICO	JAE094 CG0150	JAE095 CG0152	JAE096 CG0153	JAE097 CG0154	JAE098 CG0156	JAE099 CG0157	JAE100 CG0159	JAE101 CG0161	JAE102 CG0163	JAE103 CG0165
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PARAMETROS ANALITICOS DE CAMPO

EM										
PH					7,0		6,5		7,0	6,5
METAL TOTAL										
CODIF. LIVRE	PS241	PS251	PS261	PS271	PS281	PS291	PS301	PS311	PS321	PS331

PARAMETROS ANALITICOS

FE-S %	7,000	5,000	5,000	5,000	3,000	5,000	5,000	7,000	7,000	5,000
MG-S %	1,500	1,500	1,500	1,500	1,000	1,500	1,000	1,000	1,000	0,700
CA-S %	2,000	2,000	2,000	2,000	2,000	2,000	2,000	1,500	2,000	1,500
TI-S %	1,000	1,000	1,000	1,000	0,700	0,700	1,000	0,700	0,700	0,500
MN-S	2000,000	1500,000	1500,000	1500,000	1500,000	2000,000	1500,000	1500,000	1500,000	1000,000
AG-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AS-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AU-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
B-S	30,000	30,000	20,000	20,000	20,000	20,000	15,000	15,000	30,000	10,000
BA-S	1500,000	1000,000	1000,000	1000,000	1500,000	1500,000	1000,000	1000,000	1000,000	700,000
BE-S	3,000	2,000	2,000	2,000	5,000	3,000	5,000	3,000	3,000	2,000
BI-S	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	NAC DET.	NAC DET.	NAC DET.
CO-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
CO-S	50,000	30,000	50,000	50,000	30,000	20,000	30,000	50,000	30,000	20,000
CR-S	2000,000	2000,000	500,000	500,000	500,000	300,000	500,000	200,000	300,000	1000,000
CU-S	50,000	20,000	30,000	20,000	20,000	20,000	20,000	20,000	20,000	15,000
LA-S	50,000	20,000	20,000	70,000	50,000	50,000	100,000	50,000	100,000	50,000
MO-S	15,000	10,000	7,000	10,000	5,000	5,000	5,000	7,000	7,000	-5,000
NE-S	20,000	30,000	20,000	30,000	20,000	20,000	50,000	20,000	30,000	20,000
NI-S	150,000	100,000	100,000	100,000	100,000	100,000	100,000	150,000	100,000	70,000
PB-S	50,000	50,000	70,000	50,000	50,000	50,000	50,000	50,000	30,000	20,000
SB-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
SC-S	20,000	20,000	20,000	20,000	15,000	20,000	20,000	20,000	20,000	10,000
SN-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
SR-S	500,000	500,000	500,000	500,000	200,000	300,000	300,000	200,000	200,000	100,000
V-S	200,000	200,000	200,000	200,000	150,000	150,000	150,000	150,000	150,000	100,000
W-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	50,000	-50,000	NAC DET.	NAC DET.	NAC DET.	NAC DET.
Y-S	70,000	200,000	100,000	100,000	50,000	50,000	100,000	50,000	70,000	50,000
ZN-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
ZR-S	500,000	+1000,000	500,000	300,000	300,000	300,000	700,000	200,000	300,000	200,000
CU-AA	25,000	20,000	25,000	25,000	INSUFIC.	INSUFIC.	20,000	25,000	25,000	20,000
PE-AA	20,000	15,000	20,000	20,000	INSUFIC.	INSUFIC.	25,000	25,000	25,000	20,000
ZN-AA	30,000	25,000	30,000	35,000	INSUFIC.	INSUFIC.	35,000	40,000	45,000	30,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INSUFIC.	INSUFIC.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CC-AA										
TE-AA										
AU-AA	INSUFIC.	NAC DET.	NAC DET.	NAC DET.	INSUFIC.	INSUFIC.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
TI-CCL 3										
HG-INS										



SECIMENTOS DE COPRENTE PALMAS

NUM. LAB.	JAE094	JAE095	JAE096	JAE097	JAE098	JAE099	JAE100	JAE101	JAE102	JAE103
NUM. CAMPO	CG0150	CG0152	CG0153	CG0154	CG0156	CG0157	CG0159	CG0161	CG0163	CG0165
C. CLSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300
PROCEDENCIA	AD	AD	AC	AD	AD	AC	AD	AC	AD	AC
BASE CART.	SH-21-R-	SH-21-R-	SB-21-P-	SH-21-R-	SH-21-R-	SH-21-R-	SH-21-R-	SH-21-R-	SH-21-P-	SH-21-R-
BASE CART.	IV-2	IV-2	IV-2	IV-2	IV-2	IV-2	IV-2	IV-2	IV-2	IV-2
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	10/75	10/75	10/75	10/75	10/75	10/75	10/75	10/75	10/75	10/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	660312	660326	660330	660334	660335	660342	660355	660368	660395	660386
UTM - LONG.	07727300	07727100	07726100	07724600	07723500	07722100	07720400	07719600	07718400	07715300
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FNTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REC.	C	C	C	C	C	C	C	C	C	C
ID. GEOLG.										
MAT. CCLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	A	A	A	A	A	A	A	A	A	A
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.	D	D	D	D	D	D	D	D	D	D
SIT. AMOST.	B	B	B	B	B	B	B	B	B	B
ALTITUDE										
PROF. AMOST.					0,10					
FORMA ICNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCOR.										
LARGURA RIO	6	6	6	6	7	6	7	6	7	7
PROFUND. RIO	0,5	0,4	0,4	0,4	0,5	0,4	0,4	0,4	0,5	0,5
VELOC. CORR.	3	3	3	3	3	3	3	3	3	3
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA DRENAG.	2	2	2	2	2	2	2	2	2	2
TURB. AGUA	1	1	1	1	1	1	1	1	1	1
POS. CCLETA	E	C	C	C	C	C	E	E	E	E
COR AGUA	A	A	A	A	A	A	A	A	A	A
GRAU ARREC.	B	B	B	B	B	B	B	B	B	B
VOL. CRICIN.										
PESO CCNC.										
GRANULMET.										
TEXT. SEDIM.	91	721	9	91	91	91	91	91	91	91
COR SEC./SL.										
HORIZ. SCLO										
TIPO SCLC										



S E A G

PROJET( LEVANTAMENTO GEOQUIMICO DO FCS

CENTRO DE CUSTO - 1533.300

## SEDIMENTOS DE CORRENTE PALMAS

NUM. LAB.	JAE084A	JAE085	JAE086	JAF087	JAE088	JAE089	JAE090	JAE091	JAE092	JAE093
NUM. CAMPO	CG0137	CG0138	CG0139	CG0142	CG0143	CG0144	CG0145	CG0147	CG0148	CG0149
AMB. ELOTICO										
PARAMETROS ANALITICOS DE CAMPO										
EH										
PH					6,5					
METAL TOTAL										
COEF. LIVRE	PS141	PS151	PS161	PS181	PS171	PS191	PS201	PS211	PS221	PS231
PARAMETROS ANALITICOS										
FE-S %		5,000	10,000	5,000	5,000	10,000	3,000	10,000	3,000	10,000
MG-S %		1,500	2,000	1,500	1,500	1,500	0,500	1,500	1,000	1,500
CA-S %		3,000	5,000	2,000	1,500	2,000	1,500	2,000	0,700	1,500
TI-S %		1,000	1,000	1,000	1,000	1,000	1,000	1,000	0,700	1,000
MN-S		1500,000	2000,000	1500,000	2000,000	1500,000	700,000	1500,000	1000,000	2000,000
AG-S		NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
AS-S		NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
AU-S		NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
B-S		20,000	50,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000
BA-S		1000,000	1500,000	1000,000	1000,000	1000,000	1500,000	2000,000	700,000	1500,000
BE-S		3,000	1,000	2,000	5,000	2,000	2,000	2,000	3,000	3,000
BI-S		-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
CD-S		NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
CO-S		20,000	50,000	50,000	50,000	50,000	15,000	50,000	20,000	70,000
CR-S		1000,000	500,000	700,000	500,000	3000,000	2000,000	500,000	1000,000	300,000
CU-S		50,000	100,000	100,000	50,000	100,000	15,000	50,000	15,000	70,000
LA-S		50,000	50,000	50,000	70,000	100,000	50,000	50,000	20,000	70,000
MO-S		NAD DET.	-5,000	10,000	10,000	50,000	5,000	5,000	5,000	10,000
NB-S		20,000	10,000	20,000	30,000	30,000	30,000	30,000	30,000	20,000
NI-S		100,000	200,000	150,000	100,000	150,000	50,000	100,000	100,000	150,000
PE-S		50,000	20,000	50,000	50,000	50,000	50,000	70,000	100,000	100,000
SB-S		NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
SC-S		20,000	50,000	20,000	20,000	30,000	10,000	20,000	10,000	20,000
SN-S		NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
SR-S		500,000	700,000	500,000	200,000	500,000	200,000	500,000	150,000	200,000
V-S		150,000	200,000	150,000	150,000	200,000	100,000	150,000	100,000	200,000
W-S		NAD DET.	NAD DET.	-50,000	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
Y-S		50,000	50,000	70,000	70,000	150,000	100,000	100,000	100,000	70,000
ZN-S		NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
ZR-S		200,000	300,000	300,000	300,000	1000,000	300,000	500,000	700,000	500,000
CU-AA	15,000	15,000	30,000	25,000	35,000	20,000	10,000	20,000	10,000	25,000
PE-AA	25,000	25,000	15,000	15,000	20,000	20,000	15,000	20,000	15,000	35,000
ZN-AA	40,000	35,000	40,000	25,000	40,000	30,000	15,000	25,000	35,000	50,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CD-AA										
TE-AA										
AU-AA		NAD DET.	NAD DET.	NAD DET.	-0,100	0,800	-0,050	NAD DET.	NAD DET.	-0,200
TI-CCL 2										
HG-INS										

S E A G

PROJETO EVANTAMENTO GEOQUIMICO DO PGS

CENTRO DE CUSTO - 1533.300

SECIMIENTOS DE CORRENTE PALMAS

NUM. LAB.	JAE084A	JAE085	JAE086	JAE087	JAE088	JAE089	JAE090	JAE091	JAE092	JAE093
NUM. CAMPO	CG0137	CG0138	CG0139	CG0142	CG0143	CG0144	CG0145	CG0147	CG0148	CG0149
C. CLSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300
PROCECENCIA	AD	AD	AD	AD	AD	AD	AD	AD	AD	AD
BASE CART.	SH-21-R-	SH-21-R-	SH-21-R-	SH-21-R-	SH-21-R-	SH-21-P-	SH-21-R-	SH-21-R-	SH-21-P-	SH-21-P-
BASE CART.	IV-2	IV-2	IV-2	IV-2	IV-2	IV-2	IV-2	IV-2	IV-2	IV-2
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	10/75	10/75	10/75	10/75	10/75	10/75	10/75	10/75	10/75	10/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	660315	660344	660349	660257	660244	660298	660278	660229	660244	660305
UTM - LONG.	07742300	07736700	07735400	07731600	07732600	07730800	07730200	07729200	07732100	07729600
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARÂMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	C	C	C	C	C	C	C	C	C	C
ID. GEOLÓG.										
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	A	A	A	A	A	A	A	A	A	A
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.	D	D	D	D	D	D	D	D	D	D
SIT. AMOST.	B	B	B	B	B	B	B	B	B	B
ALTITUDE										
PROF. AMOST.										
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCC.										
LARGURA RIO	5	5	2	6	6	6	2	2	2	6
PROFUND. RIO	0,5	0,4	0,3	0,3	0,3	0,3	0,3	0,3	0,2	0,4
VELOC. CORR.	3	3	2	3	3	3	2	2	2	3
NIVEL AGLA	2	2	2	2	2	2	2	2	2	2
AREA CRENAG.	2	2	1	2	2	2	1	1	1	2
TURB. AGUA	1	1	1	1	1	1	1	1	1	1
POS. COLETA	C	C	C	C	E	C	E	C	C	C
COR AGUA	A	A	A	A	A	A	A	A	A	A
GRAU ARREC.	B	B	B	B	B	B	B	B	B	B
VOL. ORIGEM.										
PESO CCNC.										
GRANULOMET.										
TEXT. SEDIM.	91	162 1	72 1	91	82	82	82	82	82	91
COR SEC./SL.										
HORIZ. SOLO										
TIPO SOLO										





S E A G

PROJETO LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CLSTO - 1533.300

SEDIMENTOS DE CORRENTE PALMAS

NUM. LAB.	JAE076	JAE077	JAE078	JAE079	JAE080	JAE081	JAE082	JAE083	JAE083A	JAE084
NUM. CAMPO	CG0125	CG0127	CG0128	CG0129	CG0130	CG0132	CG0134	CG0135	CG0135	CG0137
AMB. BIOTICO										

PARAMETROS ANALITICOS DE CAMPO

EH										
PH		6,5	6,5	6,5						
METAL TOTAL										
CODIF. LIVRE	PS071	PSC81	PSC82	PS091	PS101	PS111	PS121	PS131	PS131	PS141

PARAMETROS ANALITICOS

FE-S %	2,000	3,000	3,000	2,000	5,000	10,000	10,000	7,000		10,000
MG-S %	0,500	1,000	1,000	0,200	0,700	2,000	2,000	1,500		3,000
CA-S %	0,200	0,500	0,500	0,300	0,700	2,000	2,000	2,000		2,000
TI-S %	0,300	0,500	0,300	0,300	0,700	1,000	1,000	1,000		1,000
MN-S	500,000	500,000	500,000	500,000	1000,000	2000,000	3000,000	2000,000		2000,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.		NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.		NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.		NAO DET.
B-S	50,000	30,000	20,000	20,000	50,000	20,000	20,000	20,000		50,000
BA-S	300,000	300,000	300,000	300,000	500,000	1000,000	1500,000	1000,000		700,000
BE-S	5,000	5,000	5,000	5,000	5,000	2,000	3,000	2,000		2,000
BI-S	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000		-10,000
CO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.		NAO DET.
CR-S	10,000	20,000	15,000	15,000	20,000	50,000	70,000	50,000		70,000
CP-S	200,000	2000,000	500,000	200,000	500,000	700,000	1000,000	1500,000		2000,000
CU-S	5,000	5,000	10,000	15,000	15,000	50,000	70,000	50,000		50,000
LA-S	50,000	50,000	50,000	50,000	70,000	50,000	70,000	50,000		70,000
MO-S	-5,000	-5,000	5,000	5,000	5,000	7,000	10,000	7,000		-5,000
NE-S	20,000	50,000	30,000	50,000	50,000	20,000	30,000	30,000		30,000
NI-S	15,000	200,000	100,000	20,000	50,000	150,000	150,000	150,000		300,000
PB-S	100,000	70,000	50,000	70,000	70,000	50,000	70,000	30,000		70,000
SE-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.		NAO DET.
SO-S	5,000	10,000	5,000	5,000	10,000	20,000	20,000	20,000		20,000
SN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.		NAO DET.
SP-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	500,000	500,000	500,000		200,000
V-S	50,000	50,000	50,000	50,000	70,000	100,000	200,000	200,000		100,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.		NAO DET.
Y-S	100,000	150,000	100,000	150,000	200,000	100,000	100,000	100,000		150,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.		NAO DET.
ZR-S	500,000	+1000,000	300,000	700,000	1000,000	200,000	300,000	300,000		500,000
CU-AA	5,000	5,000	5,000	5,000	10,000	20,000	25,000	15,000		15,000
PE-AA	20,000	15,000	20,000	20,000	20,000	20,000	25,000	15,000		25,000
ZN-AA	30,000	20,000	25,000	25,000	35,000	35,000	45,000	25,000		40,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.		INTERFER.
CO-AA										
NI-AA										
BI-AA										
CO-AA										
TE-AA										
AU-AA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	INSUFIC.	0,150	NAO DET.	NAO DET.		INSUFIC.
TI-CCL %										
FG-INS										

S E A G

PROJETO EVANTAFENC GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

SEDIMENTOS DE CORRENTE PALMAS

NUM. LAB.	JAE076	JAE077	JAE078	JAE079	JAE080	JAE081	JAE082	JAE083	JAE083A	JAE084
NUM. CAMPO	CG0125	CG0127	CG0128	CG0129	CG0130	CG0132	CG0134	CG0135	CG0135	CG0137
C. CLSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300
PROCECENCIA	AD	AD	AC	AD	AD	AC	AD	AD	AD	AC
BASE CART.	SH-21-R-	SH-21-R-	SH-21-R-	SH-21-R-	SH-21-R-	SH-21-R-	SH-21-R-	SH-21-R-	SH-21-R-	SH-21-R-
BASE CART.	IV-2	IV-2	IV-2	IV-2	IV-1	IV-2	IV-2	IV-2	IV-2	IV-2
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	10/75	10/75	10/75	10/75	10/75	10/75	10/75	10/75	10/75	10/75
LATITUDE										
LONGITUDE										
ABSCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	660175	660246	660246	660235	660307	660325	660303	660300	660300	660315
UTM - LONG.	07754800	07747800	07747800	07740900	07736500	07735300	07734200	07733100	07732100	07742300
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMCST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMCST.	L	L	L	L	L	L	L	L	L	L
ROCHA REC.	D	N	N	N	N	N	C	C	C	C
ID. GEOLCG.										
MAT. CCLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	A	A	A	A	A	A	A	A	A	A
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TCPCG.	D	D	D	D	D	D	D	D	D	D
SIT. AMOST.	B	B	B	B	B	B	B	B	B	B
ALTITUDE										
PROF. AMCST.		0,10								
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCOR.										
LARGURA RIO	2	3	3	2	3	5	5	5	5	5
PROFUND. RIO	0,3	0,4	0,4	0,3	0,3	0,5	0,5	0,5	0,5	0,5
VELOC. CCRR.	3	3	3	2	2	3	3	3	3	3
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA CRENAC.	1	1	1	1	1	2	2	2	2	2
TURB. AGUA	1	1	1	1	1	1	1	1	1	1
PDS. CCLETA	E	E	E	E	C	E	C	E	E	C
COR AGUA	A	A	A	A	A	A	A	A	A	A
GRAU AFREC.	C	B	B	B	B	B	B	B	B	B
VCL. ORIGIN.										
PESO CCNC.										
GRANULOMET.										
TEXT. SECIM.	91	82	82	82	19	82	51	51	51	91
COR SEC./SL.										
HORIZ. SCLO										
TARG. SCLC										

## SISTEMA DE ESTATISTICA DE AMOSTRAGEM

FOLHA DE CONTROLE - PROGRAMA PRGQMCC7

\* \* \* O P C O E S \* \* \*

0 0 0 0 0 0 C C 0 0

ARQUIVO

FS193150

AMOSTRAS LIDAS 49

AMOSTRAS IMPRESSAS 49

N. INICIAL DA PAGINA 1

N. FINAL DA PAGINA 15

N. DE AMOSTRA INICIAL

N. DE AMOSTRAS FINAL



Área de Palmas

Sedimentos de corrente

Concentrados de bateia

Solos de *background* - horizonte A

Solos de perfis - horizonte A

Rochas - xistos e migmatitos

S E A G

PROJETO - LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CLSTO - 1533.300

## ROCHAS - XISTOS E FILITOS - DE CAMPINAS

NUM. LAB.	JAD732
NUM. CAMPO	ES0136
CXCU-CCL	
MET PES	
CC-CCL	
MO-CCL	
W-CCL	
P-CCL	
SE-CCL	
U-CCL	
TI-CCL %	
HC-INS	
F-INS	400,000
S-INS %	
C-INS %	
PH	
AU-p ORG	
AU-P ANL	

S E A G

PROJETO LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

ROCHAS - XISTOS E FILITOS - DE CAMPINAS

NUM. LAB. JAD732  
 NUM. CAMPO ES0136  
 AMB. BIOTICO

PARAMETROS ANALITICOS DE CAMPO

EH  
 PF  
 METAL TOTAL  
 CODIF. LIVRE FR171

PARAMETROS ANALITICOS

FE-S %	10,000
MG-S %	0,300
CA-S %	-0,050
TI-S %	1,000
MN-S	300,000
AG-S	NAC DET.
AS-S	NAC DET.
AU-S	NAC DET.
B-S	10,000
BA-S	1000,000
BE-S	3,000
BI-S	NAC DET.
CC-S	NAC DET.
CD-S	20,000
CR-S	200,000
CU-S	15,000
LA-S	70,000
MO-S	7,000
NE-S	20,000
NI-S	30,000
PB-S	50,000
SE-S	NAC DET.
SC-S	20,000
SN-S	NAC DET.
SR-S	NAC DET.
V-S	200,000
W-S	NAC DET.
Y-S	50,000
ZN-S	NAC DET.
ZR-S	200,000
CU-AA	15,000
PE-AA	30,000
ZN-AA	30,000
AG-AA	NAC DET.
CO-AA	
NI-AA	
BI-AA	
CC-AA	
TE-AA	
AU-AA	NAC DET.
AS-CCL	60,000
SP-CCL	-1,000

S E A G

PROJETO - EVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

## ROCHAS - XISTOS E FILITOS - DE CAMPINAS

NUM. L/E. JAD732  
 NUM. CAMPO ES0136  
 C. CUSTO 1533  
 S. CUSTO 300  
 PRECISENCA AD  
 BASE CART. SH22YAVI  
 BASE CART. 3  
 BASE CART.  
 ESCALA 0050  
 DATA 09/75  
 LATITUDE  
 LONGITUDE  
 ABCISSA - X 0000  
 ORDENADA - Y 0000  
 UTM - LAT. 215660  
 UTM - LONG. 06571900  
 MER. CENT. 51

## PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST. R  
 TIPO AMOST. A  
 FONTE AMOST. A  
 ROCHA REG. N  
 ID. GEOLG.  
 MAT. COLET. FLTO  
 PLUVIOSIDADE  
 TIPO VEGET.  
 SIT. TOPOG.  
 SIT. AMOST.  
 ALTITUDE  
 PREC. AMOST.  
 FORMA IGNEA  
 SIT. ESTRUT.  
 MATRIZ PREC. B  
 GRAU INTEMP.  
 TIPO ALTER.  
 TIPO MINER.  
 DEP. COLET.  
 LARGURA RIO  
 PROFUND. RIO  
 VELOC. CORR.  
 NIVEL AGUA  
 AREA DRENAG.  
 TURB. AGUA  
 POS. COLETA  
 COR AGUA  
 GRAU ARREC.  
 VOL. ORIGIN.  
 PFSO CCNC.  
 GRANULOMET.  
 TEXT. SEDIM.  
 COR SEC./SL.  
 HORIZ. SCLO  
 TIPO SCLO



ROCHAS - XISTOS E FILITOS - DE CAMPINAS

NUM. LAB. NUM. CAMPO CXCU-CCL MET PES CO-CCL MO-CCL W-CCL P-CCL SE-CCL U-CCL TI-CCL % MG-INS F-INS S-INS % C-INS % PH AU-P CRG AU-P ANL	JAD690 ES0108	JAD692 ES0110	JAD698 ES0116	JAD699 ES0117	JAD706 ES0124	JAD707 ES0125	JAD708 ES0126	JAD709 ES0127	JAD713 ES0131	JAD722 ES0126A
	20,000	-20,000	-20,000	80,000	-20,000	-20,000	-20,000	-20,000	20,000	-20,000
	400,000	700,000	250,000	600,000	1900,000	1300,000	1500,000	1800,000	900,000	1300,000

S E A G

PROJETO EVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

ROCHAS - XISTOS E FILITOS - DE CAMPINAS

NUM. LAB.	JAC690	JAC692	JAC698	JAC699	JAC706	JAC707	JAC708	JAC709	JAC713	JAC722
NUM. CAMPO	ES0108	ES0110	ES0116	ES0117	ES0124	ES0125	ES0126	ES0127	ES0131	ES0126A
AMB. BIOTICO										

PARAMETROS ANALITICOS DE CAMPO

EH										
PH										
METAL TOTAL										
CODIF. LIVRE	FR011	FR031	FR051	FR041	FR291	FR301	FR311	FR321	FR351	FR313

PARAMETROS ANALITICOS

FE-S %	5,000	10,000	5,000	3,000	5,000	5,000	5,000	5,000	7,000	7,000
MG-S %	0,300	0,300	0,100	0,500	0,700	1,000	1,000	1,500	0,700	1,000
CA-S %	-0,050	-0,050	-0,050	-0,050	0,150	0,150	0,150	0,150	-0,050	0,150
TI-S %	0,500	0,700	0,500	0,700	0,700	0,700	1,000	1,000	1,000	1,000
MN-S	100,000	700,000	50,000	200,000	300,000	300,000	300,000	300,000	150,000	300,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	0,500	1,000	NAO DET.	0,500
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AL-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	200,000	30,000	100,000	200,000	+2000,000	+2000,000	+2000,000	+2000,000	300,000	+2000,000
BA-S	500,000	500,000	500,000	700,000	100,000	100,000	200,000	300,000	700,000	200,000
BE-S	3,000	3,000	1,500	2,000	70,000	3,000	5,000	7,000	10,000	7,000
BI-S	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	10,000	20,000	5,000	20,000	30,000	20,000	20,000	20,000	15,000	20,000
CR-S	150,000	200,000	100,000	150,000	70,000	100,000	100,000	150,000	150,000	100,000
CU-S	15,000	50,000	15,000	15,000	5,000	10,000	-5,000	-5,000	100,000	5,000
LA-S	20,000	20,000	50,000	20,000	20,000	70,000	100,000	20,000	50,000	70,000
MO-S	5,000	15,000	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	5,000	NAO DET.
NB-S	15,000	20,000	20,000	20,000	30,000	20,000	20,000	20,000	20,000	30,000
NI-S	20,000	50,000	20,000	20,000	30,000	20,000	50,000	50,000	30,000	50,000
PB-S	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	50,000	20,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	15,000	20,000	15,000	20,000	15,000	20,000	15,000	20,000	20,000	15,000
SN-S	10,000	10,000	-10,000	-10,000	70,000	50,000	70,000	150,000	20,000	100,000
SR-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
V-S	200,000	200,000	150,000	200,000	150,000	150,000	150,000	150,000	200,000	150,000
W-S	NAO DET.	-50,000	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	20,000	50,000	30,000	30,000	20,000	20,000	20,000	20,000	50,000	20,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	200,000	200,000	NAO DET.	200,000
ZR-S	100,000	200,000	200,000	200,000	200,000	200,000	300,000	300,000	300,000	300,000
CU-AA	25,000	45,000	15,000	15,000	5,000	10,000	5,000	5,000	85,000	5,000
PP-AA	10,000	10,000	5,000	10,000	-5,000	5,000	5,000	5,000	20,000	5,000
ZN-AA	25,000	85,000	25,000	25,000	10,000	10,000	5,000	5,000	75,000	5,000
AG-AA	INTERFER.	INTERFER.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	INTERFER.	NAO DET.
CO-AA										
NI-AA										
BI-AA										
CC-AA										
TE-AA										
AU-AA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-COL	60,000	-10,000	-10,000	40,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SR-COL	NAO DET.	NAO DET.	NAO DET.	NAO DET.	-1,000	-1,000	-1,000	-1,000	1,000	-1,000

ROCHAS - XISTOS E FILITOS - DE CAMPINAS

NUM. LAB.	JAD690	JAD692	JAD698	JAD699	JAD706	JAD707	JAD708	JAD709	JAD713	JAD722
NUM. CAMFO	ES0108	ES0110	ES0116	ES0117	ES0124	ES0125	ES0126	ES0127	ES0131	ES0126A
C. CLSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300
PROCEDENCIA	AD	AD	AC	AD	AD	AC	AC	AD	AD	AD
BASE CART.	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI
BASE CART.	3	3	3	3	3	3	3	3	3	3
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	313650	316300	313000	311000	312175	312175	312175	312550	312175	312175
UTM - LONG.	06586600	06585350	06583650	06582500	06579910	06579850	06579894	06578150	06579917	06579894
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	R	R	P	R	R	R	R	R	P	R
TIPC AMOST.	B	A	A	B	B	A	A	A	A	A
FNTE AMOST.	A	A	A	A	D	C	C	C	C	C
ROCHA REC.	N	N	N	C	N	N	N	N	N	N
ID. CECLEC.										
MAT. COLET.	XSTO	XSTO	XSTC	FLTO	XSTO	XSTO	XSTO	XSTC	XSTC	XSTC
PLUVIOSIDADE										
TIPC VEGET.										
SIT. TOPOG.										
SIT. AMOST.										
ALTITUDE										
PROF. AMOST.					1,30	0,50	0,30	0,20	0,30	0,30
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PRED.										
GRAU INTIMP.	B	A	A	A	C	C	B	B	A	B
TIPC ALTER.										
TIPC MINER.										
DEP. CCCR.										
LARGURA RIO										
PROFUNDE. RIO										
VELOC. CORR.										
NIVEL AGUA										
AREA DRENAG.										
TURB. AGUA										
PDS. COLETA										
COR AGUA										
GRAU APREC.										
VOL. ORIGIN.										
PESO CCNC.										
GRANULOMET.										
TEXT. SECIM.										
COR SEC./SL.										
HORIZ. SOLO										
TIPC. SCLC										

CPRM

LISTAGEM DE AMOSTRAS

04.02.76

FLA. UNICA

SISTEMA DE ESTATISTICA DE AMOSTRAGEM

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FOLHA DE CONTROLE - PROGRAMA PRGMCC7

\*\*\* O P C O E S \*\*\*

ARQUIVO

0 0 0 0 0 0 0 0 0

FS193350

AMOSTRAS LIDAS 11

AMOSTRAS IMPRESSAS 11

N. INICIAL DA PAGINA 1

N. FINAL DA PAGINA 6

N. DE AMOSTRA INICIAL

N. DE AMOSTRAS FINAL

455



454

ROCHAS GRANITICAS DE CAMPINAS

NUM. LAB.	JAD739	JAC739A	JAC74C
NUM. CAMFO	ES0143	ES0143	ESC144
CXCU-CCL			
MET PES			
CO-CCL			
MO-CCL			
W-CCL			
P-CCL			
SE-CCL			
U-CCL			
TI-CCL %			
HG-INS			
F-INS	2500,000	2500,000	425,000
S-INS %			
C-INS %			
PH			
AU-P CRG			
AU-P ANL			

S E A G

PROJETO EVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CLSTO - 1533.3CC

ROCHAS GRANITICAS DE CAMPINAS

NUM. LAB. JAC739 JAD739A JAC74C  
 NUM. CAMPO FS0143 ES0143 ES0144  
 AMB. BIOTICO

PARAMETROS ANALITICOS DE CAMPO

EH  
 PH  
 METAL TOTAL  
 CODIF. LIVRE FR141 FR141 FR111

PARAMETROS ANALITICOS

FE-S %	5,000		3,000
MG-S %	1,000		1,000
CA-S %	0,050		2,000
TI-S %	0,500		0,300
MN-S	500,000		300,000
AG-S	NAC DET.		NAC DET.
AS-S	NAC DET.		NAC DET.
AU-S	NAC DET.		NAC DET.
B-S	+2000,000		10,000
BA-S	500,000		1500,000
BE-S	150,000		3,000
BI-S	NAC DET.		NAC DET.
CC-S	NAC DET.		NAC DET.
CO-S	20,000		20,000
CR-S	100,000		50,000
CU-S	10,000		-5,000
LA-S	50,000		50,000
MO-S	5,000		NAC DET.
NB-S	30,000		10,000
NI-S	50,000		10,000
PB-S	15,000		50,000
SE-S	NAC DET.		NAC DET.
SC-S	15,000		5,000
SN-S	200,000		NAC DET.
SR-S	NAC DET.		500,000
V-S	100,000		50,000
W-S	NAC DET.		NAC DET.
Y-S	20,000		20,000
ZN-S	200,000		NAC DET.
ZR-S	200,000		300,000
CU-AA	10,000	10,000	-5,000
PE-AA	5,000	5,000	10,000
ZN-AA	25,000	25,000	75,000
AG-AA	INTERFER.	INTERFER.	INTERFER.
CO-AA			
NI-AA			
BI-AA			
CC-AA			
TE-AA			
AU-AA	0,050		NAC DET.
AS-CCL	-10,000	-10,000	-10,000
SB-CCL	NAC DET.	NAC DET.	NAC DET.

S E A G

PROJETL LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CLSTO - 1533.300

## ROCHAS GRANITICAS DE CAMPINAS

NUM. LAB.	JAD739	JAD739A	JAD740
NUM. CAMPO	ES0143	ESC143	ESC144
C. CLSTO	1533	1533	1533
S. CLSTO	300	300	300
PROCEDENCIA	AD	AD	AC
BASE CART.	SH22YAVI	SH22YAVI	SH22YAVI
BASE CART.	3	3	3
BASE CART.			
ESCALA	0050	0050	0050
DATA	09/75	09/75	09/75
LATITUDE			
LONGITUDE			
ABCISSA - X	0000	0000	0000
ORDENADA - Y	0000	0000	0000
UTM - LAT.	315640	315640	314460
UTM - LONG.	06582900	06582900	06583460
MER. CENT.	51	51	51

## PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	R	R	R
TIPO AMOST.	B	B	A
FONTE AMOST.	B	B	A
ROCHA REC.	N	N	C
IC. CECLEG.			
MAT. CCLET.	GRSN	GRSN	GRNT
PLUVIOSIDADE			
TIPO VEGET.			
SIT. TOPOG.			
SIT. AMOST.			
ALTITUDE			
PROF. AMOST.			
FORMA IGNEA			
SIT. ESTRUT.			
MATRIZ PREC.			
GRAU INTEMP.	B	B	B
TIPO ALTER.			
TIPO MINER.			
DEP. OCCOR.			
LARGURA RIO			
PROFUND. RIO			
VFLOC. CCPR.			
NIVEL AGLA			
AREA DRENAG.			
TURB. AGLA			
POS. CCLETA			
COR AGLA			
GRAU AFREC.			
VOL. CRICIN.			
PESO CCNC.			
GRANULOMET.			
TEXT. SECIM.			
COR SEC./SL.			
HORIZ. SCLC			
TIPO SCLC			





S E A G

PROJET LEVANTAMENTO GEOQUIMICO DO PGS

CENTRO DE CUSTO - 1533.300

ROCHAS GRANITICAS DE CAMPINAS

NUM. LAB.	JAC721	JAD723	JAC73C	JAC731	JAC733	JAC734	JAC735	JAC736	JAC737	JAC738
NUM. CAMPO	ES0122A	ES0130A	ES0134	ES0135	ES0137	ES0138	ES0139	ES0140	ES0141	ES0142
AMB. BIOTICO										
PARAMETROS ANALITICOS DE CAMPO										
EH										
PH										
METAL TOTAL										
CODIF. LIVRE	FR273	FR343	FR181	FR182	FR151	FR191	FR152	FR131	FR121	FR161
PARAMETROS ANALITICOS										
FE-S %	3,000	3,000	2,000	3,000	5,000	5,000	5,000	1,000	5,000	5,000
MG-S %	0,700	0,700	0,200	0,300	1,000	0,050	2,000	0,100	1,500	2,000
CA-S %	1,000	2,000	0,500	0,500	2,000	0,050	2,000	0,300	2,000	2,000
TI-S %	0,500	0,500	0,200	0,300	0,500	0,200	0,500	0,050	0,700	0,700
MN-S	200,000	200,000	300,000	200,000	500,000	20,000	700,000	150,000	700,000	1000,000
AG-S	0,500	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AU-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
B-S	10,000	10,000	20,000	20,000	2000,000	70,000	1000,000	20,000	NAC DET.	50,000
BA-S	1000,000	1000,000	500,000	700,000	1000,000	300,000	1000,000	150,000	1000,000	1000,000
BF-S	10,000	3,000	3,000	2,000	15,000	2,000	5,000	10,000	5,000	10,000
BI-S	-10,000	-10,000	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CC-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CO-S	10,000	7,000	5,000	5,000	10,000	NAO DET.	15,000	NAO DET.	20,000	20,000
CR-S	15,000	10,000	10,000	10,000	100,000	50,000	100,000	10,000	100,000	100,000
CU-S	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000	5,000	-5,000	5,000	5,000
LA-S	70,000	NAO DET.	70,000	50,000	50,000	150,000	70,000	NAO DET.	70,000	70,000
MO-S	NAO DET.	NAO DET.	NAC DET.	5,000	NAO DET.	10,000	NAO DET.	NAO DET.	NAC DET.	NAC DET.
NB-S	20,000	10,000	10,000	20,000	10,000	20,000	20,000	-10,000	20,000	20,000
NI-S	10,000	5,000	5,000	5,000	15,000	5,000	20,000	NAO DET.	20,000	20,000
PE-S	100,000	70,000	50,000	50,000	70,000	20,000	70,000	30,000	50,000	50,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SC-S	5,000	5,000	5,000	7,000	10,000	5,000	15,000	NAO DET.	15,000	15,000
SN-S	50,000	10,000	NAC DET.	NAC DET.	50,000	NAO DET.	50,000	20,000	50,000	50,000
SR-S	200,000	300,000	100,000	NAC DET.	300,000	NAO DET.	300,000	NAO DET.	300,000	300,000
V-S	50,000	30,000	20,000	30,000	70,000	20,000	100,000	10,000	100,000	100,000
W-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
Y-S	10,000	20,000	30,000	20,000	20,000	50,000	20,000	10,000	20,000	30,000
ZN-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	-200,000	-200,000
ZR-S	200,000	300,000	200,000	300,000	200,000	300,000	100,000	20,000	300,000	200,000
CU-AA	5,000	5,000	-5,000	-5,000	5,000	-5,000	10,000	-5,000	10,000	5,000
PP-AA	20,000	15,000	10,000	10,000	20,000	15,000	20,000	10,000	20,000	20,000
ZN-AA	70,000	65,000	35,000	30,000	60,000	10,000	60,000	25,000	65,000	80,000
AG-AA	INTERFER.	INTERFER.	NAC DET.	NAO DET.	INTERFER.	INTERFER.	INTERFER.	NAO DET.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CO-AA										
TE-AA										
AU-AA	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AS-CCL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SB-CCL	-1,000	-1,000	NAC DET.	NAC DET.	NAO DET.	NAC DET.	-1,000	NAO DET.	NAC DET.	NAC DET.

S E A G

PROJETO EVANTAMENTO GEOQUIMICO DO PGS

CENTRO DE CUSTO - 1533.300

ROCHAS GRANITICAS DE CAMPINAS

NUM. LAB.	JAC721	JAD723	JAD730	JAD731	JAD733	JAC734	JAC735	JAD736	JAD737	JAC738
NUM. CAMPO	ES0122A	ES0130A	ES0134	ES0135	ES0137	ES0138	ES0139	ESC140	ES0141	ES0142
C. CLSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300
PROCECENCIA	AD	AD	AD	AD	AD	AD	AD	AD	AD	AD
BASE CART.	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI
BASE CART.	3	3	3	3	3	3	3	3	3	3
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	08/75	08/75	09/75	09/75	09/75	09/75	09/75	09/75	09/75	09/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	312300	312300	318280	318280	313960	318450	313990	317080	314950	310860
UTM - LONG.	06579920	06579680	06573380	06573380	06575080	06570260	06574400	06578500	06577320	06573130
MEP. CENT.	51	51	51	51	51	51	51	51	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	R	R	R	R	R	R	R	R	R	R
TIPO AMOST.	A	A	A	A	B	B	A	A	B	A
FONTE AMOST.	A	A	A	A	A	A	A	A	A	A
ROCHA REF.	D	D	D	C	D	D	D	D	D	C
ID. GEOLÓG.										
MAT. COLET.	GRNT	GRNT	GRNT	GRNT	GRNT	GRNT	GRNT	GRNT	GRNT	GRNT
PLUVIOSIDADE										
TIPO VEGET.										
SIT. TOPOG.										
SIT. AMOST.										
ALTITUDE										
PROF. AMOST.										
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PED.										
GRAU INTEMP.	B	C	B	B	C	B	B	B	C	B
TIPO ALTER.										
TIPO MINER.										
DEP. OCCOR.										
LARGURA FIC										
PROFUND. RIO										
VELOC. CORR.										
NIVEL AGLA										
AREA DRENAG.										
TURB. AGLA										
POS. COLETA										
COR AGLA										
GRAU ARRED.										
VCL. ORIGIN.										
PESO CCNC.										
GRANULOMET.										
TEXT. SECIM.										
COR SEC./SL.										
HORIZ. SCLO										
TIPO SOLC										



ROCHAS GRANITICAS DE CAMPINAS

NUM. LAB. NUM. CAMPO AME. ECTICO	JAC703 ES0121	JAD704 ES0122	JAD705 ES0123	JAD710 ES0128	JAC711 ES0129	JAC712 ES0130	JAC712A ES0130	JAD71E FSC114A	JAC719 FSC115A	JAC720 ES0121A
PARAMETROS ANALITICOS DE CAMPO										
EP PH METAL TOTAL CODIF. LIVRE	FR261	FR271	FR281	FR331	FR341	FR342	FR342	FR093	FR083	FR263
PARAMETROS ANALITICOS										
FF-S %	2,000	3,000	2,000	3,000	2,000	3,000		1,000	2,000	3,000
MG-S %	0,500	0,700	0,700	0,500	0,700	0,700		0,100	1,000	0,700
CA-S %	-0,050	1,000	2,000	-0,050	2,000	2,000		0,200	2,000	-0,050
TI-S %	0,300	0,500	0,300	0,500	0,300	0,500		0,070	0,300	0,700
MN-S	150,000	200,000	200,000	150,000	200,000	200,000		150,000	500,000	200,000
AG-S	NAO DET.	1,000	1,000	NAO DET.	NAO DET.	1,000		0,500	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAO DET.
AL-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAO DET.
B-S	10,000	10,000	10,000	20,000	20,000	10,000		100,000	NAO DET.	10,000
BA-S	200,000	1000,000	1000,000	200,000	1000,000	1000,000		70,000	1000,000	300,000
BF-S	5,000	10,000	3,000	3,000	5,000	3,000		30,000	3,000	5,000
BI-S	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000		-10,000	-10,000	-10,000
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAO DET.
CO-S	7,000	10,000	5,000	10,000	5,000	10,000		NAO DET.	7,000	10,000
CR-S	10,000	15,000	10,000	10,000	10,000	10,000		-10,000	20,000	15,000
CU-S	-5,000	-5,000	5,000	5,000	-5,000	-5,000		-5,000	-5,000	5,000
LA-S	20,000	70,000	20,000	50,000	150,000	NAO DET.		NAO DET.	50,000	20,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAO DET.
NE-S	10,000	20,000	-10,000	10,000	10,000	10,000		-10,000	10,000	10,000
NI-S	5,000	10,000	-5,000	5,000	-5,000	5,000		NAO DET.	10,000	10,000
PE-S	50,000	70,000	70,000	70,000	50,000	50,000		50,000	50,000	70,000
SE-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAO DET.
SC-S	7,000	5,000	5,000	5,000	5,000	5,000		NAO DET.	5,000	10,000
SN-S	20,000	50,000	-10,000	15,000	-10,000	-10,000		20,000	NAO DET.	30,000
SR-S	NAO DET.	200,000	300,000	NAO DET.	300,000	300,000		NAO DET.	500,000	NAO DET.
V-S	50,000	50,000	30,000	50,000	30,000	30,000		10,000	70,000	50,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAO DET.
Y-S	10,000	10,000	10,000	10,000	100,000	10,000		10,000	10,000	10,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAO DET.
ZR-S	200,000	200,000	200,000	200,000	100,000	300,000		20,000	150,000	300,000
CU-AA	5,000	5,000	15,000	5,000	5,000	5,000	5,000	-5,000	5,000	5,000
PE-AA	30,000	25,000	10,000	35,000	15,000	15,000	15,000	5,000	10,000	30,000
ZN-AA	75,000	80,000	65,000	70,000	65,000	70,000	70,000	10,000	65,000	75,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	NAO DET.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CD-AA										
TE-AA										
AU-AA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAO DET.
AS-CCL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SB-CCL	-1,000	-1,000	1,000	-1,000	-1,000	-1,000	NAO DET.	-1,000	-1,000	-1,000



ROCHAS GRANITICAS DE CAMPINAS

NUM. LAB.	JAC703	JAD704	JAD705	JAD710	JAC711	JAE712	JAC712A	JAD71E	JAC719	JAC720
NUM. CAMPO	ES0121	ES0122	ES0123	ES0128	ES0129	ES0130	ES0130	ESC114A	ES0115A	ES0121A
C. CLSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300
PROCECENCIA	AD	AD	AC	AD	AD	AC	AC	AD	AD	AC
BASE CART.	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SHYAVI3	SH22YAVI	SH22YAVI
BASE CART.	3	3	3	3	3	3	3	3	3	3
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	312550	312300	312300	312550	312300	312200	312300	316500	314800	312550
UTM - LONG.	06579930	06579920	06579930	06579820	06579680	06579680	06579680	06582500	06582500	06579930
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARÂMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	R	R	R	R	R	R	R	R	R	R
TIPO AMOST.	A	A	A	A	A	A	A	A	A	A
FONTE AMOST.	C	A	A	C	A	A	A	A	A	C
ROCHA PEC.	D	D	D	D	D	D	D	D	D	D
ID. CECLOG.										
MAT. COLET.	GRNT	GRNT	GRNT	GRNT	GRNT	GRNT	GRNT	GRNT	GRNT	GRNT
PLUVIOSIDADE										
TIPO VEGET.										
SIT. TOPOG.										
SIT. AMOST.										
ALTITUDE				1,00						
PROF. AMOST.										
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PPEC.										
GRAU INTEMP.	A	B	C	A	C	C	C	B	C	A
TIPO ALTER.										
TIPO MINER.										
DEP. COCCR.										
LARGURA FIC										
PROFUND. RIO										
VFLUC. COCCR.										
NIVEL AGUA										
AREA CRENAG.										
TURE. AGUA										
POS. COLETA										
CCR AGUA										
GRAU AFREC.										
VOL. ORIGIN.										
PESO CCNC.										
GRANULOMET.										
TEXT. SECIM.										
CCR SEC./SL.										
HORIZ. SCLO										
TIPO SCLC										

S E A G

PROJETO - LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CLSTO - 1533.300

## ROCHAS GRANITICAS DE CAMPINAS

NUM. LAB. NUM. CAMPO CXCL-CCL MET PES CO-CCL MO-CCL W-CCL P-CCL SF-CCL U-CCL TI-CCL % HG-INS F-INS S-INS % C-INS % PH AU-P ORG AU-P ANL	JAC689 ES0107	JAC691 ES0109	JAC693 ES0111	JAC694 ES0112	JAC695 ES0113	JAC696 ES0114	JAC697 ES0115	JAC700 ES0118	JAC701 ES0119	JAC702 ES0120
	-20,000	120,000	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000
	900,000	800,000	1000,000	900,000	1000,000	700,000	600,000	4500,000	4500,000	2000,000

S E A G

PROJET. LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CLUSTO - 1533.300

ROCHAS GRANITICAS DE CAMPINAS

NUM. LAB.	JAD689	JAD691	JAD693	JAD694	JAD695	JAD696	JAD697	JAD700	JAD701	JAD702
NUM. CAMPO	ES0107	ES0109	ES0111	ES0112	ES0113	ES0114	ES0115	ES0118	ES0119	ES0120
AMB. BIOTICO										
PARAMETROS ANALITICOS DE CAMPO										
EH										
PH										
METAL TOTAL										
CODIF. LIVRE	FR101	FR021	FR071	FR072	FR061	FR091	FR081	FR241	FR242	FR251
PARAMETROS ANALITICOS										
FE-S %	1,000	2,000	1,000	0,500	0,700	1,000	2,000	3,000	2,000	3,000
MG-S %	0,100	0,500	0,150	0,100	0,100	0,100	1,000	1,000	0,700	0,700
CA-S %	0,200	1,500	0,150	0,150	0,150	0,150	2,000	-0,050	-0,050	-0,050
TI-S %	0,070	0,300	0,050	0,030	0,050	0,050	0,300	0,500	0,300	0,500
MN-S	150,000	200,000	150,000	150,000	150,000	150,000	500,000	300,000	300,000	200,000
AG-S	0,500	NAO DET.	NAC DET.	0,500	0,500	0,500	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AL-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
B-S	20,000	10,000	150,000	100,000	50,000	100,000	NAO DET.	10,000	20,000	10,000
BA-S	100,000	700,000	70,000	70,000	100,000	70,000	1000,000	1000,000	1000,000	500,000
BE-S	5,000	3,000	50,000	30,000	30,000	20,000	2,000	10,000	20,000	5,000
BI-S	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
CC-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CO-S	NAO DET.	10,000	NAC DET.	NAC DET.	NAO DET.	NAO DET.	10,000	10,000	10,000	10,000
CR-S	-10,000	20,000	-10,000	-10,000	-10,000	-10,000	20,000	15,000	15,000	15,000
CU-S	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000	5,000
LA-S	NAO DET.	50,000	NAO DET.	NAC DET.	NAO DET.	NAO DET.	20,000	70,000	20,000	70,000
MO-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
NE-S	-10,000	10,000	-10,000	-10,000	-10,000	-10,000	-10,000	10,000	20,000	20,000
NI-S	NAO DET.	10,000	NAC DET.	NAC DET.	NAO DET.	NAO DET.	10,000	10,000	5,000	10,000
PE-S	50,000	70,000	50,000	50,000	50,000	50,000	50,000	50,000	15,000	70,000
SE-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SC-S	NAO DET.	5,000	NAC DET.	NAC DET.	NAC DET.	NAC DET.	5,000	10,000	5,000	10,000
SN-S	20,000	15,000	20,000	20,000	20,000	20,000	-10,000	100,000	300,000	50,000
SR-S	NAC DET.	200,000	NAC DET.	NAC DET.	NAO DET.	NAO DET.	500,000	NAO DET.	NAC DET.	NAC DET.
V-S	10,000	50,000	10,000	10,000	10,000	10,000	50,000	50,000	50,000	70,000
W-S	NAO DET.	-50,000	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
Y-S	10,000	10,000	10,000	10,000	10,000	10,000	10,000	20,000	10,000	30,000
ZN-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
ZR-S	70,000	200,000	20,000	10,000	20,000	20,000	100,000	200,000	200,000	300,000
CU-AA	-5,000	10,000	-5,000	-5,000	-5,000	-5,000	5,000	5,000	-5,000	5,000
PE-AA	5,000	15,000	5,000	5,000	10,000	5,000	10,000	25,000	20,000	40,000
ZN-AA	15,000	65,000	10,000	10,000	20,000	10,000	70,000	45,000	10,000	60,000
AG-AA	NAO DET.	INTERFER.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	INTERFER.	INTERFER.	NAO DET.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CD-AA										
TE-AA										
AU-AA	NAO DET.	NAO DET.	NAO DET.	NAC DET.	-0,050	NAO DET.	0,150	NAO DET.	NAC DET.	NAC DET.
AS-COL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SB-COL	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	1,000	1,000

S E A G

PROJETO VANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CLSTO - 1533.300

## ROCHAS GRANITICAS DE CAMPINAS

NUM. LAB.	JAD689	JAD691	JAD693	JAD694	JAD695	JAD696	JAD697	JAD700	JAD701	JAD702
NUM. CAMPO	ES0107	ES0109	ES0111	ES0112	FS0113	ES0114	ES0115	FSC118	FS0119	FS0120
C. CLSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300
PROCECENCIA	AD	AD	AC	AD	AD	AC	AD	AD	AD	AC
BASE CART.	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI
BASE CART.	3	3	3	3	3	3	3	3	3	3
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	318000	318800	318000	318000	316500	316500	314800	312550	312550	312550
UTM - LONG.	06581100	06586250	06583700	06583700	06583500	06582500	06582500	06579520	06579520	06579520
MER. CENT.	51	51	51	51	51	51	51	51	51	51

## PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	R	R	R	R	R	R	R	R	R	R
TIPO AMOST.	A	A	B	B	A	A	A	A	A	F
FORTE AMOST.	A	A	A	A	A	A	A	C	C	C
ROCHA REG.	C	D	C	D	D	D	D	D	D	C
ID. CECLCC.	AS									
MAT. CELET.	GRNT	GRNT	GRNT	GRNT	GRNT	GRNT	GRNT	GRNT	GRNT	GRNT
PLUVIOSIDADE										
TIPO VEGET.										
SIT. TFCOG.										
SIT. AMOST.										
ALTITUDE										
PROF. AMOST.								2,00	2,00	1,50
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTMP.	B	B	B	B	B	B	C	A	A	A
TIPO ALTER.										
TIPO MINEF.										
DEF. CCCCP.										
LARGURA RIO										
PROFUND. RIO										
VELOC. CORR.										
NIVEL AGLA										
AREA EPENAC.										
TURB. AGLA										
PCS. CELETA										
COR AGLA										
GRAU ARREC.										
VOL. CRIGIN.										
PESO CONC.										
GRANULOMET.										
TEXT. SECIM.										
COR SEC./SL.										
HORIZ. SCLO										
TIPO SCLO										



SISTEMA DE ESTATISTICA DE AMOSTRAGEM

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FOLHA DE CONTROLE - PROGRAMA PRGCMCC7

\*\*\* OPCOES \*\*\*

ARQUIVO

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AMOSTRAS LIDAS 33

AMOSTRAS IMPRESSAS 33

N. INICIAL DA PAGINA 1

N. FINAL DA PAGINA 12

N. DE AMOSTRA INICIAL

N. DE AMOSTRAS FINAL

SCLCS DE PERFIS HCR.C XISTCS DE CAMPINAS

NUM. LAB.	JAD493	JAD455
NUM. CAMPO	RH0236A	RH0225A
CXCU-CCL		
MET PES		
CO-CCL		
MO-CCL		
W-CCL	-20,000	-20,000
P-CCL		
SE-CCL		
U-CCL		
TI-CCL %		
HG-INS		
F-INS	475,000	600,000
S-INS %		
C-INS %		
PH		
AU-p CFG		
AU-P ANL		

S E A G

PROJET. LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

## SOLCS DE PERFIS HCP.C XISTOS DE CAMPINAS

NUM. LAB. JAD493 JAD495  
 NUM. CAMPE RFO236A RHC225A  
 AMB. BIOTICO

## PARAMETROS ANALITICOS DE CAMPO

EH  
 PH  
 METAL TOTAL  
 COCIF. LIVRE F20C3 F2123

## PARAMETROS ANALITICOS

FE-S %	5,000	10,000
MG-S %	0,300	0,300
CA-S %	-0,050	0,050
TI-S %	0,700	1,000
MN-S	100,000	200,000
AG-S	0,500	NAO DET.
AS-S	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.
B-S	500,000	2000,000
BA-S	700,000	500,000
BE-S	5,000	10,000
BT-S	-10,000	-10,000
CD-S	NAO DET.	NAO DET.
CO-S	5,000	10,000
CR-S	200,000	200,000
CU-S	15,000	20,000
LA-S	20,000	30,000
MO-S	5,000	5,000
NE-S	20,000	20,000
NI-S	20,000	30,000
PE-S	20,000	30,000
SB-S	NAO DET.	NAO DET.
SC-S	20,000	20,000
SN-S	20,000	30,000
SR-S	NAO DET.	NAO DET.
V-S	200,000	150,000
W-S	NAO DET.	NAO DET.
Y-S	30,000	50,000
ZN-S	NAO DET.	NAO DET.
ZR-S	300,000	300,000
CU-AA	20,000	25,000
PE-AA	15,000	20,000
ZN-AA	20,000	30,000
AG-AA	INTERFER.	INTERFER.
CO-AA		
NI-AA		
BI-AA		
CD-AA		
TE-AA		
AU-AA	NAO DET.	NAO DET.
AS-COL	-10,000	-10,000
SE-CCL	-1,000	-1,000

S E A G

PROJETO EVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

SOLCS DE PERFIS HCR.C XISTCS DE CAMPINAS

NUM. LAB.	JAC493	JAC495
NUM. CAMFO	RH0236A	RH0225A
C. CLSTO	1533	1533
S. CUSTO	300	300
PROCEDECIA	AD	AD
BASE CART.	SH22YAVI	SH22YAVI
BASE CART.	3	3
BASE CART.		
ESCALA	0050	0050
DATA	08/75	08/75
LATITUDE		
LONGITUDE		
ABCISSA - X	0000	0000
ORDENADA - Y	0000	0000
UTM - LAT.	312175	312175
UTM - LONG.	06579910	06579883
MER. CENT.	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	L	L
TIPO AMOST.	C	C
FONTE AMOST.	C	C
ROCHA REC.	N	N
ID. CECLEG.	AS	AS
MAT. CCLET.	SOLO	SOLC
PLUVIOSIDADE	B	B
TIPO VEGET.	A	A
SIT. TCPCG.	B	B
SIT. AMOST.		
ALTITUDE		
PROF. AMOST.	1,00	0,50
FORMA JGNEA		
SIT. ESTRUT.		
MATRIZ PREC.		
GRAU INTEMP.		
TIPO ALTER.		
TIPO MINER.		
DEP. CCCC.		
LARGURA FIO		
PROFUND. RIO		
VELOC. CCRR.		
NIVEL AGLA		
AREA DRENAG.		
TURB. AGLA		
POS. CCLETA		
COR AGLA		
GRAU AFREC.		
VCL. ORIGIN.		
PESO CCNC.		
GRANULOMET.		
TEXT. SEDIM.	253	343
COR SEC./SL.	B	G
HORIZ. SCLC	C	C
TIPO SCLC	F	F





SOLOS DE PERFIS MEC. C XISTOS DE CAMPINAS

NUM. LAB. NUM. CAMPO AMB. BIOTICO	JAC470 RH0248	JAD472 RH0250	JAC474 RH0252	JAC476 RH0254	JAC476A RH0254	JAC477 RH0256	JAC479 RH0258	JAD487 RHC171A	JAC489 RH0244A	JAC491 RH0246A
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PARAMETROS ANALITICOS DE CAMPO

EH PH METAL TOTAL CODIF. LIVRE	F2111	F2131	F2112	F2052	F2052	F2012	F2042	F1213	F2073	F2093
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PARAMETROS ANALITICOS

FE-S %	3,000	7,000	2,000	5,000		10,000	7,000	5,000	5,000	7,000
MG-S %	0,200	1,000	0,200	0,500		1,000	0,500	0,300	0,100	0,700
CA-S %	-0,050	0,050	-0,050	-0,050		-0,050	-0,050	-0,050	-0,050	-0,050
TI-S %	0,700	1,000	1,000	0,500		1,000	1,000	1,000	1,000	1,000
MN-S	70,000	150,000	50,000	100,000		200,000	100,000	100,000	50,000	100,000
AG-S	1,000	5,000	NAC DET.	NAC DET.		2,000	NAC DET.	NAC DET.	0,500	NAC DET.
AS-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.		NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AU-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.		NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
B-S	500,000	+2000,000	500,000	1000,000		2000,000	500,000	1000,000	100,000	1000,000
BA-S	500,000	700,000	500,000	500,000		700,000	700,000	500,000	500,000	1000,000
BE-S	3,000	10,000	2,000	5,000		7,000	5,000	7,000	5,000	5,000
BI-S	-10,000	-10,000	-10,000	-10,000		-10,000	-10,000	-10,000	-10,000	-10,000
CD-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.		NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
CO-S	5,000	10,000	NAC DET.	10,000		20,000	5,000	5,000	5,000	15,000
CR-S	70,000	100,000	100,000	100,000		100,000	100,000	200,000	100,000	200,000
CU-S	20,000	50,000	15,000	50,000		100,000	50,000	30,000	15,000	50,000
LA-S	50,000	50,000	50,000	50,000		20,000	20,000	50,000	20,000	50,000
MO-S	5,000	7,000	5,000	NAC DET.		NAC DET.	NAC DET.	-5,000	NAC DET.	-5,000
NE-S	20,000	30,000	20,000	20,000		20,000	20,000	20,000	30,000	20,000
NI-S	20,000	50,000	15,000	20,000		50,000	20,000	30,000	15,000	30,000
PB-S	30,000	50,000	50,000	50,000		50,000	30,000	20,000	15,000	30,000
SB-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.		NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
SC-S	15,000	30,000	20,000	20,000		20,000	20,000	20,000	20,000	30,000
SN-S	10,000	70,000	10,000	15,000		50,000	10,000	10,000	NAC DET.	10,000
SR-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.		NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
V-S	150,000	200,000	200,000	100,000		200,000	200,000	150,000	150,000	200,000
W-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.		NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
Y-S	20,000	50,000	50,000	50,000		50,000	20,000	30,000	20,000	30,000
ZN-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.		NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
ZR-S	200,000	300,000	200,000	200,000		300,000	300,000	200,000	200,000	300,000
CU-AA	35,000	35,000	25,000	45,000	45,000	80,000	20,000	35,000	20,000	35,000
PE-AA	10,000	10,000	10,000	15,000	15,000	15,000	15,000	15,000	10,000	10,000
ZN-AA	20,000	20,000	10,000	55,000	55,000	45,000	25,000	35,000	15,000	40,000
AG-AA	NAC DET.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NJ-AA										
BI-AA										
CD-AA										
TE-AA										
AU-AA	NAC DET.	NAC DET.	NAC DET.	NAC DET.		NAC DET.	NAC DET.	NAC DET.	NAC DET.	2,000
AS-CCL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SB-CCL	-1,000	NAC DET.	NAC DET.	-1,000	NAC DET.	-1,000	-1,000	-1,000	NAC DET.	-1,000







SOLOS DE PERFIS HCR.C XISTOS DE CAMPINAS

NUM. LAB.	JAD449	JAD452	JAD454	JAD456	JAD458	JAD460	JAD462	JAD464	JAD466	JAD468
NUM. CAMPO	RH0227	RH0230	RH0232	RH0234	RH0236	RH0238	RH0240	RH0242	RH0244	RH0246
AMB. BIOTICO										

PARAMETROS ANALITICOS DE CAMPO

EH										
PH										
METAL TOTAL										
CODIF. LIVRE	F2101	F2061	F2041	F2021	F2001	F2011	F2031	F2051	F2071	F2091

PARAMETROS ANALITICOS

FE-S %	5,000	10,000	10,000	5,000	10,000	5,000	5,000	5,000	5,000	5,000
MG-S %	0,700	0,700	0,700	0,500	0,300	0,500	0,700	0,700	0,100	0,500
CA-S %	0,100	0,100	-0,050	-0,050	-0,050	-0,050	0,150	-0,050	-0,050	-0,050
TI-S %	1,000	0,700	0,500	1,000	0,700	0,700	1,000	0,700	0,700	0,700
MN-S	200,000	300,000	200,000	70,000	100,000	100,000	200,000	150,000	50,000	100,000
AG-S	1,000	NAO DET.	2,000	1,000	0,500	0,500	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AL-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	+2000,000	+2000,000	2000,000	2000,000	500,000	1500,000	+2000,000	2000,000	100,000	1000,000
BA-S	500,000	1000,000	700,000	700,000	700,000	700,000	500,000	700,000	500,000	700,000
BF-S	10,000	10,000	10,000	3,000	5,000	3,000	5,000	7,000	3,000	5,000
BI-S	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
CC-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	15,000	30,000	20,000	10,000	5,000	10,000	20,000	15,000	-5,000	10,000
CR-S	200,000	200,000	150,000	300,000	200,000	200,000	70,000	100,000	70,000	70,000
CU-S	20,000	70,000	100,000	15,000	20,000	50,000	15,000	70,000	15,000	20,000
LA-S	20,000	20,000	50,000	20,000	20,000	50,000	50,000	50,000	20,000	20,000
MO-S	NAO DET.	7,000	5,000	5,000	5,000	NAO DET.	NAO DET.	5,000	NAO DET.	NAO DET.
NB-S	30,000	30,000	20,000	20,000	30,000	20,000	30,000	20,000	20,000	20,000
NI-S	30,000	70,000	30,000	30,000	30,000	20,000	50,000	30,000	15,000	20,000
PE-S	20,000	70,000	50,000	20,000	30,000	30,000	20,000	50,000	30,000	20,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	30,000	50,000	20,000	50,000	30,000	30,000	20,000	30,000	30,000	20,000
SN-S	50,000	200,000	70,000	10,000	10,000	10,000	70,000	30,000	NAO DET.	10,000
SR-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
V-S	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	150,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	20,000	50,000	70,000	50,000	50,000	50,000	50,000	50,000	30,000	20,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	300,000	300,000	300,000	300,000	300,000	300,000	300,000	200,000	200,000	200,000
CU-AA	35,000	40,000	50,000	15,000	20,000	20,000	20,000	55,000	20,000	30,000
PE-AA	20,000	15,000	20,000	10,000	15,000	15,000	20,000	20,000	10,000	10,000
ZN-AA	35,000	30,000	35,000	15,000	25,000	25,000	40,000	65,000	10,000	40,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CC-AA										
TE-AA										
AU-AA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-COL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SB-COL	-1,000	-1,000	-1,000	NAO DET.	-1,000	-1,000	-1,000	-1,000	NAO DET.	-1,000

S E A G

PROJETO - VANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

SOLOS DE PERFIS HCR.C XISTOS DE CAMPINAS

NUM. LAB.	JAC449	JAC452	JAC454	JAC456	JAC458	JAC460	JAC462	JAC464	JAC466	JAC468
NUM. CAMPO	RH0227	RH0230	RH0232	RH0234	RH0236	RH0238	RH0240	RHC242	RH0244	RH0246
C. CLSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300
PROCECENCIA	AD	AD	AD	AD	AD	AD	AD	AD	AD	AD
BASE CART.	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI
BASE CART.	3	3	3	3	3	3	3	3	3	3
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	312175	312175	312175	312175	312175	312175	312175	312175	312175	312175
UTM - LONG.	06579891	06579903	06579907	06579909	06579910	06579911	06579913	06579917	06579925	06579941
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	L	L	L	L	L	L	L	L	L	L
TIPO AMOST.	C	C	C	C	C	C	C	C	C	C
FONTE AMOST.	C	C	C	C	C	C	C	C	C	C
ROCHA REC.	N	N	N	N	N	N	N	N	N	N
ID. CECLCG.	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
MAT. CCLET.	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO
PLUVIOSIDADE	B	B	B	B	B	B	B	B	B	B
TIPC VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TCPCG.	B	C	C	C	B	B	B	B	B	B
SIT. AMOST.										
ALTITUDE										
PPDF. AMOST.	0,40	0,50	0,50	1,00	1,00	0,90	0,80	0,70	0,45	0,75
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PRED.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCCR.										
LARGURA FIC										
PROFUND. RIO										
VELOC. CCRR.										
NIVEL AGLA										
AREA DRENAG.										
TURB. AGLA										
POS. CCLETA										
COR AGLA										
GRAU ARREC.										
VCL. CRICIN.										
PESO CCNC.										
GRANULOMET.										
TEXT. SECIM.	244	253	343	244	253	343	244	433	433	433
COR SEC./SL.	G	G	G	G	B	B	G	B	G	G
HORIZ. SOLO	C	C	C	C	C	C	C	C	C	C
TIPO SOLO	F	F	F	F	F	F	F	F	F	F





S E A G

PROJETO EVANTAMENTO GEOQUIMICO DO PGS

CENTRO DE CUSTO - 1533.300

SOLOS DE PERFIS HCR.C XISTOS DE CAMPINAS

NUM. LAB. NUM. CAMPO AMB. BIOTICO	JAD393 RH0171	JAD395 RH0173	JAD397 RHC175	JAD399 RH0177	JAC401 RH0179	JAC401A RH0179	JAD441 RH0219	JAD443 RHC221	JAD445 RHC223	JAD447 RH0225
PARAMETROS ANALITICOS DE CAMPO										
EH										
PH										
METAL TOTAL										
COCIF. LIVRE	F1211	F1191	F1171	F1151	F1131	F1131	F2181	F2161	F2141	F2121
PARAMETROS ANALITICOS										
FE-S %	5,000	10,000	10,000	15,000	10,000		15,000	10,000	10,000	10,000
MG-S %	0,300	1,000	0,500	0,300	0,500		0,500	0,300	0,300	0,300
CA-S %	-0,050	0,100	-0,050	-0,050	-0,050		-0,050	-0,050	0,050	0,050
TI-S %	1,000	1,000	0,700	1,000	1,000		1,000	1,000	0,700	1,000
MN-S	150,000	200,000	100,000	150,000	500,000		200,000	200,000	200,000	200,000
AG-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAC DET.	NAC DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.		NAO DET.	NAO DET.	NAC DET.	NAC DET.
AU-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAC DET.	NAC DET.
B-S	1500,000	+2000,000	1500,000	1000,000	1000,000		700,000	500,000	1000,000	1500,000
BA-S	300,000	700,000	500,000	300,000	300,000		500,000	500,000	500,000	500,000
BE-S	10,000	7,000	10,000	7,000	10,000		5,000	5,000	20,000	7,000
BI-S	-10,000	-10,000	-10,000	-10,000	-10,000		-10,000	-10,000	-10,000	-10,000
CD-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.		NAO DET.	NAO DET.	NAC DET.	NAC DET.
CO-S	5,000	30,000	10,000	10,000	15,000		15,000	10,000	15,000	15,000
CR-S	150,000	200,000	200,000	150,000	150,000		200,000	200,000	150,000	200,000
CU-S	20,000	70,000	50,000	50,000	50,000		70,000	100,000	50,000	20,000
LA-S	50,000	50,000	50,000	20,000	50,000		50,000	50,000	20,000	20,000
MO-S	-5,000	NAO DET.	NAO DET.	5,000	7,000		10,000	10,000	10,000	7,000
NE-S	20,000	20,000	20,000	20,000	20,000		20,000	30,000	30,000	20,000
NI-S	30,000	50,000	30,000	50,000	20,000		70,000	50,000	50,000	50,000
PE-S	20,000	70,000	50,000	50,000	50,000		50,000	50,000	50,000	50,000
SE-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAC DET.	NAC DET.
SC-S	20,000	30,000	30,000	30,000	20,000		50,000	50,000	30,000	30,000
SN-S	15,000	200,000	20,000	20,000	50,000		20,000	20,000	20,000	30,000
SR-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAC DET.	NAC DET.
V-S	200,000	150,000	150,000	150,000	150,000		200,000	200,000	200,000	200,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAC DET.	NAC DET.
Y-S	50,000	50,000	30,000	20,000	50,000		50,000	50,000	50,000	50,000
ZN-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAC DET.	NAC DET.
ZR-S	300,000	300,000	300,000	300,000	500,000		500,000	500,000	300,000	300,000
CU-AA	35,000	40,000	35,000	35,000	30,000	30,000	20,000	35,000	25,000	25,000
PE-AA	10,000	15,000	15,000	20,000	25,000	25,000	20,000	20,000	20,000	20,000
ZN-AA	20,000	40,000	45,000	55,000	50,000	50,000	30,000	30,000	45,000	30,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CO-AA										
TE-AA										
AU-AA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.		NAO DET.	NAO DET.	NAC DET.	NAC DET.
AS-CCL	-10,000	-10,000	10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	10,000
SB-CCL	-1,000	-1,000	-1,000	-1,000	-1,000	-1,000	1,000	1,000	-1,000	-1,000



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PROJETO LEVANTAMENTO GEOQUIMICO DO PGS

CENTRO DE CUSTO - 1533.300

SOLOS DE PERFIS PCR.C XISTOS DE CAMPINAS

NUM. LAB.	JAC393	JAC395	JAC397	JAC399	JAC401	JAC401A	JAC441	JAC443	JAC445	JAC447
NUM. CAMPO	RH0171	RH0173	PH0175	RH0177	PH0179	PH0179	RH0219	RH0221	RH0223	PH0225
C. CUSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CUSTO	300	300	300	300	300	300	300	300	300	300
PROVENIENCIA	AD	AD	AC	AD	AD	AC	AD	AD	AD	AC
BASE CART.	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI
BASE CART.	3	3	3	3	3	3	3	3	3	3
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	312632	312632	312632	312632	312632	312632	312175	312175	312175	312175
UTM - LONG.	06580167	06580152	06580137	06580122	06580107	06580107	06579843	06579859	06579875	06579883
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARÂMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	L	L	L	L	L	L	L	L	L	L
TIPO AMOST.	C	C	C	C	C	C	C	C	C	C
FONTE AMOST.	C	C	C	C	C	C	C	C	C	C
ROCHA REG.	N	N	N	N	N	N	N	N	N	N
ID. GEOLÓG.	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
MAT. COLET.	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO
PLUVIOSIDADE	B	B	B	B	B	B	B	B	B	B
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.	C	B	B	B	C	C	B	B	B	B
SIT. AMOST.										
ALTITUDE										
PROF. AMOST.	0,70	0,70	0,60	0,70	0,80	0,80	0,80	0,75	0,70	0,50
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PRED.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. COCCR.										
LARGURA RIO										
PROFUND. RIO										
VELOC. COCCR.										
NIVEL AGLA										
AREA CRENAG.										
TURB. AGUA										
POS. COLETA										
COR AGLA										
GRAU ARREC.										
VOL. ORIGIN.										
PESO COCC.										
GRANULOMET.										
TEXT. SEDIM.	244	253	2152	343	343	343	253	433	244	343
COR SEC./SL.	G	G	G	G	G	G	B	G	G	G
HORIZ. SOLO	C	C	C	C	C	C	C	C	C	C
TIPO SOLO	F	F	F	F	F	F	F	F	F	F

SISTEMA DE ESTATISTICA DE AMOSTRAGEM

FOLHA DE CONTROLE - PROGRAMA PRCCM07

\*\*\* OPCOES \*\*\*

ARQUIVO

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FS193144

AMOSTRAS LIDAS 32

AMOSTRAS IMPRESSAS 32

N. INICIAL DA PAGINA 1

N. FINAL DA PAGINA 12

N. DE AMOSTRA INICIAL

N. DE AMOSTRAS FINAL

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PROJETO - LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

## SOLCS DE PERFIS HCR. A XISTOS DE CAMPINAS

NUM. LAB.	JAD454	JAD456	JAC456A
NUM. CAMPE	RH0224A	RH0255	RHC255
CXCU-CCL			
MET PES			
CO-CCL			
MO-CCL			
W-CCL	-20,000	-20,000	-20,000
P-CCL			
SE-CCL			
U-CCL			
TI-CCL %			
HG-INS			
F-INS	500,000	700,000	700,000
S-INS %			
C-INS %			
PH			
AU-P CRG			
AU-F ANL			

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PROJETO AVANÇAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

## SOLOS DE PERFIS HCR. A XISTOS DE CAMPINAS

NUM. LAB.	JAC494	JAD496	JAD496A
NUM. CAMFC	RHO224A	RHC255	RHC255
AMB. BIOTICO			

## PARAMETROS ANALITICOS DE CAMPO

EH			
PH			
METAL TOTAL			
CODIF. LIVRE	F2123	F2012	F2012

## PARAMETROS ANALITICOS

FE-S %	5,000	7,000	
MG-S %	0,300	0,500	
CA-S %	0,150	0,100	
TI-S %	1,000	1,000	
MN-S	300,000	200,000	
AG-S	0,500	NAO DET.	
AS-S	NAO DET.	NAO DET.	
AU-S	NAO DET.	NAO DET.	
B-S	+2000,000	+2000,000	
BA-S	300,000	300,000	
BE-S	20,000	15,000	
BI-S	-10,000	-10,000	
CC-S	NAO DET.	NAO DET.	
CO-S	10,000	10,000	
CR-S	150,000	150,000	
CU-S	15,000	15,000	
LA-S	20,000	20,000	
MO-S	5,000	NAO DET.	
NB-S	20,000	30,000	
NI-S	20,000	30,000	
PB-S	20,000	30,000	
SB-S	NAO DET.	NAO DET.	
SC-S	15,000	20,000	
SN-S	20,000	100,000	
SR-S	NAO DET.	NAO DET.	
V-S	100,000	150,000	
W-S	NAO DET.	NAO DET.	
Y-S	30,000	50,000	
ZN-S	NAO DET.	NAO DET.	
ZR-S	300,000	500,000	
CU-AA	15,000	15,000	15,000
PE-AA	15,000	15,000	15,000
ZN-AA	25,000	25,000	25,000
AG-AA	INTERFER.	INTERFER.	INTERFER.
CO-AA			
NI-AA			
BI-AA			
CD-AA			
TE-AA			
AU-AA	NAO DET.	NAO DET.	
AS-CCL	-10,000	-10,000	-10,000
SE-CCL	-1,000	-1,000	-1,000



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PROJETO LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

SCLOS DE FERFIS HCR. A XISTOS DE CAMPINAS

NUM. LAB.	JAE494	JAD496	JAD496A
NUM. CAMPO	RHC224A	RHC255	RHC255
C. CLSTO	1533	1533	1533
S. CUSTO	300	300	300
PPCCECENCIA	AD	AD	AD
BASE CART.	SH22YAVI	SH22YAVI	SH22YAVI
BASE CART.	3	3	3
BASE CART.			
FSCALA	0050	0050	0050
DATA	08/75	08/75	08/75
LATITUDE			
LONGITUDE			
ABCISSA - X	0000	0000	0000
ORDENADA - Y	0000	0000	0000
UTM - LAT.	312175	312175	312175
UTM - LONG.	06579883	06579911	06579911
MER. CENT.	51	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	L	L	L
TIPO AMOST.	C	C	C
FONTE AMOST.	C	C	C
ROCHA REC.	N	N	N
ID. GEOLG.	AS	AS	AS
MAT. COLET.	SOLO	SOLC	SCLC
PLUVIOSIDADE	B	B	B
TIPO VEGET.	A	A	A
SIT. TOPOG.	B	B	B
SIT. AMOST.			
ALTITUDE			
PROF. AMOST.	0,20	0,20	0,20
FORMA IGNEA			
SIT. ESTRUT.			
MATRIZ PREC.			
GRAU INTENP.			
TIPO ALTER.			
TIPO MINER.			
DEP. CCCC.			
LARGURA RIO			
PROFUN. RIO			
VFLOC. CERR.			
NIVEL AGUA			
AREA DRENAG.			
TURB. AGUA			
POS. COLETA			
COR AGUA			
GRAU AFREI.			
VOL. ORICIN.			
PESO CONC.			
GRANULOMET.			
TEXT. SECIM.	22411	23221	23221
COR SEC./SL.	D	D	D
HORIZ. SCLO	A	A	A
TIPO SCLC	F	F	F



SOLOS DE FERFIS HCF. A XISTOS DE CAMPINAS

NUM. LAB. NUM. CAMPO AMB. BIOTICO	JAD467 RH0245	JAD469 RH0247	JAD471 RH0249	JAD473 RH0251	JAD475 RH0253	JAD478 RH0257	JAD486 RH0170A	JAD488 RHC243A	JAD490 FH0245A	JAD492 RH0235A
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PARAMETROS ANALITICOS DE CAMPO

EH PH METAL TOTAL CODIF. LIVRE	F2091	F2111	F2131	F2112	F2052	F2042	F1213	F2073	F2093	F2003
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PARAMETROS ANALITICOS

FE-S %	5,000	5,000	3,000	5,000	10,000	10,000	5,000	5,000	7,000	7,000
MG-S %	0,500	0,300	0,300	0,300	0,500	0,700	0,300	0,300	0,500	0,500
CA-S %	0,100	0,050	0,050	-0,050	0,100	0,150	0,100	0,100	0,100	0,150
TI-S %	0,700	0,700	1,000	1,000	1,000	1,000	1,000	1,000	1,000	0,700
MN-S	200,000	150,000	200,000	150,000	200,000	300,000	200,000	200,000	200,000	200,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	+2000,000	+2000,000	2000,000	2000,000	+2000,000	+2000,000	2000,000	+2000,000	+2000,000	+2000,000
BA-S	300,000	200,000	300,000	300,000	300,000	300,000	300,000	300,000	500,000	300,000
BE-S	30,000	5,000	3,000	15,000	5,000	10,000	7,000	20,000	5,000	10,000
BI-S	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	15,000	10,000	10,000	10,000	15,000	15,000	10,000	15,000	15,000	10,000
CR-S	70,000	70,000	70,000	70,000	70,000	70,000	150,000	150,000	100,000	100,000
CU-S	-15,000	10,000	15,000	15,000	15,000	15,000	15,000	15,000	20,000	15,000
LA-S	50,000	20,000	20,000	50,000	50,000	50,000	50,000	30,000	50,000	50,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	5,000	10,000	NAO DET.	-5,000	-5,000	5,000
NB-S	20,000	20,000	20,000	30,000	30,000	30,000	20,000	30,000	30,000	20,000
NI-S	30,000	20,000	20,000	20,000	50,000	30,000	20,000	30,000	30,000	20,000
PE-S	20,000	10,000	20,000	20,000	50,000	30,000	20,000	20,000	20,000	15,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	15,000	10,000	10,000	20,000	20,000	20,000	20,000	20,000	20,000	10,000
SN-S	50,000	10,000	15,000	15,000	20,000	100,000	30,000	10,000	20,000	20,000
SR-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
V-S	100,000	100,000	100,000	100,000	150,000	150,000	150,000	100,000	150,000	100,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	30,000	20,000	20,000	30,000	50,000	50,000	50,000	30,000	50,000	30,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	200,000	200,000	200,000	200,000	300,000	300,000	500,000	300,000	300,000	300,000
CU-AA	-15,000	15,000	15,000	20,000	15,000	15,000	15,000	15,000	15,000	15,000
PE-AA	15,000	10,000	10,000	10,000	15,000	20,000	10,000	15,000	15,000	15,000
ZN-AA	25,000	20,000	15,000	20,000	20,000	25,000	25,000	25,000	25,000	25,000
AG-AA	INTERFER.	NAO DET.	NAO DET.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CD-AA										
TE-AA										
AU-AA	NAO DET.	NAO DET.	NAO DET.	1,500	NAO DET.	NAO DET.	-0,050	NAO DET.	0,350	NAO DET.
AS-COL	-10,000	-10,000	-10,000	-10,000	-10,000	10,000	-10,000	-10,000	-10,000	-10,000
SB-COL	NAO DET.	NAO DET.	NAO DET.	NAO DET.	-1,000	-1,000	-1,000	-1,000	-1,000	-1,000

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PROJETO EVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

SCLOS DE PERFIS HCR. A XISTOS DE CAMPINAS

NUM. LAB.	JAC467	JAC469	JAC471	JAC473	JAC475	JAC478	JAC486	JAC488	JAC490	JAC492
NUM. CAMPO	RH0245	RH0247	RH0249	RH0251	RH0253	RH0257	RH0170A	RH0243A	RH0245A	RH0235A
C. CLSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300
PROCEDENCIA	AD	AD	AD	AD	AD	AD	AD	AD	AD	AD
BASE CART.	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI
BASE CART.	3	3	3	3	3	3	3	3	3	3
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	312175	312175	312175	312175	312175	312175	312632	312175	312175	312175
UTM - LONG.	06579941	06579973	06580021	06579973	06579917	06579907	06580167	06579925	06579941	06579910
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	L	L	L	L	L	L	L	L	L	L
TIPO AMOST.	C	C	C	C	C	C	C	C	C	C
FONTE AMOST.	C	C	C	C	C	C	C	C	C	C
ROCHA REG.	N	N	N	N	N	N	N	N	N	N
ID. GEOLG.	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
MAT. COLET.	SOLO	SOLO	SOLC	SOLC	SOLC	SOLC	SOLC	SOLC	SOLC	SOLC
PLUVIOSIDADE	B	B	B	B	B	B	B	B	B	B
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TPCOG.	B	B	A	B	B	B	C	B	B	B
SIT. AMOST.										
ALTITUDE										
PROF. AMOST.	0,20	0,20	0,10	0,20	0,30	0,20	0,30	0,15	0,20	0,20
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PRED.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCOR.										
LARGURA FIC										
PROFUN. RIO										
VELOC. CORR.										
NIVEL ACLA										
AREA DRENAG.										
TURB. AGUA										
POS. COLETA										
COR AGUA										
GRAU ABREC.										
VOL. CRICIN.										
PFSO CCNC.										
GRANULEMET.										
TEXT. SEDIM.	12331	23221	12331	23221	13411	22321	41221	22321	12331	21421
COR SEC./SL.	D	C	C	C	C	C	C	C	D	C
HORIZ. SCLO	A	A	A	A	A	A	A	A	A	A
TIPO SCLO	F	F	F	F	F	F	F	F	F	F



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PROJETO - LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

SOLCS DE PERFIS POR A XISTOS DE CAMPINAS

NUM. LAB. NUM. CAMPO CXCU-CCL MET PES CO-CCL MO-CCL W-CCL P-CCL SE-CCL U-CCL TI-CCL % HG-INS F-INS S-INS % C-INS % PH AU-P ORG AU-P ANL	JAC450 RH0228	JAC451 RH0229	JAC451A RH0229	JAC453 RH0231	JAC455 RH0233	JAC457 RH0235	JAC459 RH0237	JAC461 RH0239	JAC463 RH0241	JAC465 RH0243
	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000	20,000	-20,000	-20,000
	600,000	600,000	600,000	800,000	700,000	600,000	700,000	800,000	800,000	700,000

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PROJETO - LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CLUSTO - 1533.300

SOLOS DE PERFIS HCP. A XISTOS DE CAMPINAS

NUM. LAB. NUM. CAMPO AMB. BIOTICO	JAD450 RH0228	JAD451 RH0229	JAD451A PH0229	JAD453 RH0231	JAD455 RH0233	JAD457 RH0235	JAD459 RH0237	JAD461 RH0239	JAD463 RH0241	JAD465 RH0243
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PARAMETROS ANALITICOS DE CAMPO

EH PH METAL TOTAL CODIF. LIVRE	F2081	F2061	F2061	F2041	F2021	F2001	F2011	F2031	F2051	F2071
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PARAMETROS ANALITICOS

FE-S %	3,000	10,000		10,000	5,000	15,000	10,000	7,000	5,000	5,000
MG-S %	0,200	0,300		0,300	0,500	0,700	0,700	0,500	0,300	0,500
CA-S %	0,100	0,150		0,100	0,100	0,150	0,100	0,100	0,100	0,100
TI-S %	0,500	1,000		1,000	1,000	1,000	1,000	1,000	1,000	1,000
MN-S	100,000	300,000		300,000	300,000	200,000	200,000	200,000	150,000	200,000
AG-S	NAC DET.	NAC DET.		NAC DET.	0,500	NAC DET.	1,000	NAC DET.	NAC DET.	NAC DET.
AS-S	NAC DET.	NAC DET.		NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AL-S	NAC DET.	NAC DET.		NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
B-S	1000,000	+2000,000		+2000,000	+2000,000	+2000,000	+2000,000	+2000,000	+2000,000	+2000,000
BA-S	300,000	300,000		300,000	300,000	500,000	500,000	300,000	300,000	300,000
BE-S	5,000	5,000		10,000	10,000	10,000	30,000	5,000	10,000	20,000
BI-S	-10,000	-10,000		-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
CC-S	NAC DET.	NAC DET.		NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
CD-S	5,000	20,000		20,000	15,000	20,000	15,000	15,000	15,000	10,000
CR-S	150,000	200,000		150,000	100,000	200,000	200,000	70,000	50,000	100,000
CU-S	15,000	20,000		20,000	20,000	50,000	20,000	20,000	15,000	15,000
LA-S	20,000	50,000		20,000	20,000	20,000	20,000	50,000	50,000	30,000
MO-S	NAC DET.	7,000		7,000	5,000	7,000	7,000	5,000	5,000	NAC DET.
NB-S	20,000	30,000		30,000	20,000	30,000	20,000	30,000	30,000	20,000
NI-S	15,000	50,000		30,000	30,000	50,000	20,000	50,000	20,000	20,000
PB-S	20,000	50,000		30,000	30,000	20,000	15,000	50,000	20,000	20,000
SB-S	NAC DET.	NAC DET.		NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
SC-S	15,000	20,000		20,000	20,000	20,000	20,000	20,000	20,000	15,000
SH-S	20,000	30,000		20,000	30,000	50,000	50,000	30,000	20,000	15,000
SR-S	NAC DET.	NAC DET.		NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
V-S	100,000	200,000		200,000	200,000	200,000	150,000	200,000	200,000	100,000
W-S	NAC DET.	NAC DET.		NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
Y-S	50,000	50,000		50,000	50,000	50,000	50,000	50,000	50,000	30,000
ZN-S	NAC DET.	NAC DET.		NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
ZR-S	200,000	500,000		500,000	500,000	500,000	500,000	300,000	500,000	200,000
CU-AA	20,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
PE-AA	20,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
ZN-AA	30,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CD-AA										
TE-AA										
AU-AA	NAC DET.	NAC DET.		NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AS-COL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SB-CCL	-1,000	-1,000	-1,000	-1,000	NAC DET.	-1,000	-1,000	NAC DET.	NAC DET.	-1,000

S E A G

PROJETO LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

## SOLOS DE PERFIS HCR. A XISTOS DE CAMPINAS

NUM. LAB.	JAD450	JAD451	JAD451A	JAD453	JAD455	JAD457	JAD459	JAD461	JAD463	JAD465
NUM. CAMPO	RH0228	RH0229	RH0229	RH0231	RH0233	RH0235	RH0237	RH0239	RH0241	RH0243
C. CLSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300
PROCECENCIA	AD	AD	AD	AD	AD	AD	AD	AD	AD	AD
PASE CART.	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI
BASE CART.	3	3	3	3	3	3	3	3	3	3
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	312175	312175	312175	312175	312175	312175	312175	312175	312175	312175
UTM - LONG.	06579899	06579903	06579903	06579907	06579909	06579910	06579911	06579913	06579917	06579925
MER. CENT.	51	51	51	51	51	51	51	51	51	51

## PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	L	L	L	L	L	L	L	L	L	L
TIPO AMOST.	C	C	C	C	C	C	C	C	C	C
FONTE AMOST.	C	C	C	C	C	C	C	C	C	C
ROCHA REC.	N	N	N	N	N	N	N	N	N	N
ID. GEOLG.	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
MAT. COLET.	SOLO	SOLO	SCLC	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SCLC
PLUVIOSIDADE	B	B	B	B	B	B	B	B	B	B
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.	B	C	C	B	C	B	B	B	B	B
SIT. AMOST.										
ALTITUDE										
PROF. AMOST.	0,50	0,15	0,15	0,20	0,20	0,20	0,20	0,25	0,30	0,15
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. COCCP.										
LARGURA FIC										
PROFUND. RIO										
VELOC. CORR.										
NIVEL AGLA										
AREA DRENAG.										
TURB. AGUA										
POS. COLETA										
COR AGLA										
GRAU APREC.										
VOL. CRIGIN.										
PESO CONC.										
GRANULOMET.										
TEXT. SEDIM.	31231	23221	23221	22321	21322	21421	23221	13411	13411	22321
COR SEC./SL.	C	C	C	C	C	C	D	D	C	C
HORIZ. SCLC	A	A	A	A	A	A	A	A	A	A
TIPO SCLC	F	F	F	F	F	F	F	F	F	F





SOLOS DE PERFIS HCR. A XISTOS DE CAMPINAS

NUM. LAB.	JAD392	JAD394	JAD396	JAD398	JAD400	JAD440	JAD442	JAD444	JAD446	JAD448
NUM. CAMPO	RH0170	RH0172	RHC174	RH0176	RH0178	RH0218	RH0220	RHC222	RHC224	RH0226
AMB. BIOTICO										

PARAMETROS ANALITICOS DE CAMPO

EH										
PH										
METAL TOTAL										
CODIF. LIVRE	F1211	F1191	F1171	F1151	F1131	F2181	F2161	F2141	F2121	F2101

PARAMETROS ANALITICOS

FE-S %	5,000	5,000	10,000	5,000	5,000	10,000	5,000	7,000	5,000	5,000
MG-S %	0,300	1,000	0,700	0,300	0,500	0,300	0,300	0,500	0,300	0,300
CA-S %	0,100	-0,050	0,050	0,050	0,050	0,150	0,150	0,100	0,150	0,150
TI-S %	1,000	0,500	1,000	0,700	1,000	1,000	1,000	0,700	1,000	1,000
MN-S	200,000	200,000	150,000	150,000	700,000	300,000	200,000	300,000	300,000	500,000
AG-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	2,000	2,000
AS-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AL-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
B-S	2000,000	2000,000	2000,000	1000,000	1500,000	1500,000	2000,000	+2000,000	+2000,000	+2000,000
BA-S	300,000	700,000	700,000	300,000	500,000	300,000	300,000	500,000	300,000	300,000
BE-S	3,000	10,000	5,000	7,000	5,000	5,000	10,000	200,000	30,000	10,000
BI-S	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
CC-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CO-S	5,000	10,000	10,000	7,000	15,000	10,000	10,000	15,000	10,000	15,000
CR-S	150,000	100,000	200,000	150,000	100,000	150,000	100,000	150,000	100,000	150,000
CU-S	15,000	20,000	50,000	15,000	15,000	20,000	20,000	50,000	15,000	20,000
LA-S	50,000	50,000	50,000	50,000	50,000	20,000	50,000	50,000	20,000	50,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	5,000	7,000	5,000	10,000	5,000	7,000
NB-S	20,000	20,000	20,000	20,000	20,000	30,000	20,000	20,000	30,000	30,000
NI-S	20,000	20,000	30,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000
PP-S	20,000	50,000	50,000	50,000	70,000	50,000	30,000	50,000	30,000	30,000
SB-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SC-S	20,000	15,000	30,000	20,000	15,000	20,000	20,000	20,000	20,000	20,000
SN-S	10,000	100,000	20,000	20,000	100,000	500,000	20,000	70,000	70,000	30,000
SR-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
V-S	100,000	100,000	150,000	100,000	100,000	150,000	200,000	150,000	200,000	150,000
W-S	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
Y-S	50,000	20,000	50,000	30,000	50,000	50,000	50,000	70,000	50,000	50,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
ZR-S	500,000	300,000	300,000	300,000	500,000	500,000	500,000	300,000	300,000	700,000
CU-AA	15,000	15,000	30,000	20,000	20,000	15,000	15,000	20,000	15,000	15,000
PP-AA	10,000	10,000	10,000	20,000	25,000	15,000	15,000	15,000	10,000	15,000
ZN-AA	25,000	25,000	35,000	40,000	30,000	30,000	25,000	30,000	30,000	30,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	NAO DET.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CC-AA										
TE-AA										
AU-AA	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AS-COL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SB-COL	NAO DET.	-1,000	-1,000	NAC DET.	-1,000	-1,000	-1,000	-1,000	-1,000	-1,000

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PROJETO - VANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.200

SOLOS DE PERFIS HOR. A XISTOS DE CAMPINAS

NUM. LAB.	JAC392	JAD394	JAD396	JAD398	JAD400	JAD44C	JAD442	JAD444	JAD446	JAD448
NUM. CAMPO	RH0170	RH0172	RH0174	RH0176	RH0178	RH0218	RH0220	RHC222	PH0224	PH0226
C. CLSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300
PRECEDENCIA	AD	AD	AD	AD	AD	AD	AD	AD	AD	AD
BASE CART.	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI
BASE CART.	3	3	3	3	3	3	3	3	3	3
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	312632	312632	312632	312632	312632	312175	312175	312175	312175	312175
UTM - LONG.	06580167	06580152	06580137	06580122	06580107	06579843	06579855	06579875	06579863	06579891
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARÂMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	L	L	L	L	L	L	L	L	L	L
TIPO AMOST.	C	C	C	C	C	C	C	C	C	C
FONTE AMOST.	C	C	C	C	C	C	C	C	C	C
ROCHA REC.	N	N	N	N	N	N	N	N	N	N
ID. GEOLÓG.	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
MAT. COLET.	SOLO	SOLO	SCLC	SOLO	SOLO	SOLO	SOLO	SCLC	SOLO	SCLC
PLUVIOSIDADE	B	B	B	B	B	B	B	B	B	B
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.	C	B	B	B	C	B	B	B	B	B
SIT. AMOST.										
ALTITUDE										
PROF. AMOST.	0,30	0,20	0,30	0,30	0,30	0,10	0,10	0,20	0,20	0,15
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ. PRED.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. COCCR.										
LARGURA P. IO										
PROFUND. RIO										
VELOC. CORR.										
NIVEL AGLA										
AREA DRENAG.										
TURB. AGLA										
POS. COLETA										
COR AGLA										
GRAU ARREC.										
VCL. ORIGIN.										
PESO COCC.										
GRANULOMET.										
TEXT. SEDIM.	41221	32311	32221	3211	22321	24211	23221	22321	22411	21421
COR SEC./SL.	C	C	C	C	D	D	C	C	D	D
HORIZ. SCLC	A	A	A	A	A	A	A	A	A	A
TIPO SCLC	F	F	F	F	F	F	F	F	F	F

SISTEMA DE ESTATISTICA DE AMOSTRAGEM

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FOLHA DE CONTROLE - PROGRAMA PRGQMC07

\*\*\* OPCOES \*\*\*

ARQUIVO

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FS193143

AMOSTRAS LIDAS 33

AMOSTRAS IMPRESSAS 33

N. INICIAL DA PAGINA 1

N. FINAL DA PAGINA 12

N. DE AMOSTRA INICIAL

N. DE AMOSTRAS FINAL

SOLOS DE PERFIS HCR.C GRANITOS DE CAMPINAS

NUM. LAB.	JAD483	JAD485
NUM. CAMFO	RH0191A	RH0201A
CXCU-CCL		
MET PES		
CO-CCL		
MO-CCL		
W-CCL	-20,000	-20,000
P-CCL		
SE-CCL		
U-CCL		
TI-CCL %		
HG-INS		
F-INS	3250,000	2250,000
S-INS %		
C-INS %		
PH		
AU-P ORG		
AU-P ANL		



SOLOS DE PERFIS HOR.C GRANITOS DE CAMPINAS

NUM. LAB. JAC483 JAC485  
 NUM. CAMPC RF0191A RH0201A  
 AMB. BIOTICO

PARAMETROS ANALITICOS DE CAMPO

EH  
 PH  
 METAL TOTAL  
 CODIF. LIVRE F1063 F1163

PARAMETROS ANALITICOS

FE-S %	5,000	7,000
MG-S %	0,700	0,700
CA-S %	-0,050	-0,050
TI-S %	0,700	0,700
MN-S	300,000	200,000
AG-S	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.
B-S	100,000	100,000
BA-S	700,000	500,000
BE-S	10,000	10,000
BI-S	-10,000	-10,000
CE-S	NAO DET.	NAO DET.
CO-S	15,000	10,000
CR-S	50,000	100,000
CU-S	10,000	10,000
LA-S	50,000	50,000
MO-S	NAO DET.	-5,000
NB-S	30,000	20,000
NI-S	20,000	15,000
PB-S	50,000	50,000
SE-S	NAO DET.	NAO DET.
SC-S	10,000	10,000
SN-S	300,000	200,000
SR-S	NAO DET.	NAO DET.
V-S	70,000	70,000
W-S	NAO DET.	NAO DET.
Y-S	20,000	20,000
ZN-S	NAO DET.	NAO DET.
ZR-S	300,000	300,000
CU-AA	5,000	5,000
PE-AA	30,000	30,000
ZN-AA	25,000	45,000
AG-AA	INTERFER.	INTERFER.
CO-AA		
NI-AA		
BI-AA		
CE-AA		
TE-AA		
AU-AA	NAO DET.	NAO DET.
AS-COL	-10,000	-10,000
SE-COL	1,000	1,000

S E A G.

PROJETO - PLANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

## SOLOS DE PERFIS PCR.C GRANITOS DE CAMPINAS

NUM. LAB.	JAD483	JAD485
NUM. CAMPO	RH0191A	RH0201A
C. CUSTO	1533	1533
S. CUSTO	300	300
PROCEDENCIA	AD	AD
BASE CART.	SH22YAVI	SH22YAVI
BASE CART.	3	3
BASE CART.		
ESCALA	0050	0050
DATA	08/75	08/75
LATITUDE		
LONGITUDE		
ABSCISSA - X	0000	0000
ORDENADA - Y	0000	0000
UTM - LAT.	312550	312550
UTM - LONG.	06579875	06579815
MER. CENT.	51	51

## PARAMETROS DESCRITIVOS DE CAMPO

	L	L
CLAS. AMOST.	L	L
TIPO AMOST.	C	C
FNTE AMOST.	C	C
ROCHA REG.	S	S
ID. CECLCG.	AS	AS
MAT. CCLET.	SOLO	SOLO
PLUVIOSIDADE	B	B
TIPO VEGET.	A	A
SIT. TCPCG.	C	B
SIT. AMOST.		
ALTITUDE		
PROF. AMOST.	0,50	0,60
FORMA IGNEA		
SIT. ESTRUT.		
MATRIZ PREC.		
GRAU INTEMP.		
TIPO ALTER.		
TIPC MINER.		
DEP. CCCC.		
LARGURA RIO		
PROFUN. RIO		
VELOC. CORR.		
NIVEL AGLA		
AREA DRENAG.		
TURB. AGLA		
POS. CCLETA		
COR AGLA		
GRAU ARREC.		
VOL. ORIGIN.		
PESO CCNC.		
GRANULOMET.		
TEXT. SECIM.	343	433
COR SEC./SL.	G	B
HORIZ. SCLO	C	C
TIPO SOLO	F	F

SOLOS DE PERFIS HCR.C GRANITOS DE CAMPINAS

NUM. LAB. NUM. CAMPO CXCU-CCL MET PES CO-CCL MO-CCL W-COL P-CCL SE-CCL U-COL TI-COL % HG-INS F-INS S-INS % C-INS % PH AU-P CFG AU-P ANL	JAD423 RH0201	JAD425 RH0203	JAC427 RH0205	JAC429 RH0207	JAC431 PH0209	JAC433 RH0211	JAD435 RH0213	JAD437 RHC215	JAC439 PH0217	JAC481 RH0183A
	20,000	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000
	2500,000	1300,000	1800,000	1500,000	3000,000	2750,000	4250,000	3000,000	1100,000	2750,000

SOLOS DE PERFIS PCR.C GRANITOS DE CAMPINAS

NUM. LAB.	JAC423	JAC425	JAC427	JAC429	JAC431	JAC433	JAC435	JAC437	JAC439	JAC481
NUM. CAMPO	RH0201	RH0203	RH0205	RH0207	RH0209	RH0211	RH0213	RH0215	RH0217	RH0183A
AMB. BIOTICO										

PARAMETROS ANALITICOS DE CAMPO

EH										
PH										
METAL TOTAL										
CODIF. LIVRE	F1161	F1181	F1201	F1221	F1241	F1002	F1062	F1102	F1122	F1093

PARAMETROS ANALITICOS

FE-S %	10,000	7,000	7,000	7,000	7,000	5,000	10,000	5,000	7,000	5,000
MG-S %	1,000	1,000	1,000	1,000	1,000	1,000	1,500	0,700	0,700	0,700
CA-S %	-0,050	-0,050	-0,050	-0,050	-0,050	-0,050	-0,050	-0,050	-0,050	-0,050
TI-S %	1,000	1,000	0,700	0,700	0,700	0,700	1,000	0,700	0,700	0,700
MN-S	300,000	200,000	200,000	200,000	300,000	200,000	500,000	300,000	200,000	200,000
AG-S	NAO DET.	NAO DET.	5,000	NAO DET.	NAO DET.	7,000	NAO DET.	0,500	1,000	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AL-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	100,000	50,000	10,000	50,000	100,000	30,000	100,000	100,000	30,000	100,000
BA-S	700,000	300,000	300,000	500,000	1000,000	300,000	1000,000	700,000	300,000	300,000
BE-S	15,000	5,000	3,000	5,000	5,000	3,000	10,000	7,000	3,000	7,000
BT-S	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	15,000	15,000	10,000	15,000	20,000	15,000	15,000	10,000	10,000	10,000
CR-S	70,000	50,000	50,000	50,000	50,000	70,000	50,000	50,000	50,000	50,000
CU-S	20,000	15,000	15,000	15,000	50,000	10,000	10,000	15,000	20,000	10,000
LA-S	50,000	50,000	50,000	20,000	100,000	50,000	100,000	50,000	20,000	50,000
MO-S	5,000	5,000	NAO DET.	NAO DET.	5,000	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
NB-S	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000
NI-S	20,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	20,000
PE-S	70,000	100,000	100,000	100,000	150,000	70,000	100,000	70,000	70,000	70,000
SE-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	20,000	15,000	10,000	15,000	10,000	15,000	15,000	10,000	10,000	10,000
SN-S	500,000	50,000	70,000	500,000	200,000	100,000	500,000	300,000	50,000	100,000
SR-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
V-S	100,000	100,000	70,000	100,000	50,000	70,000	100,000	100,000	100,000	70,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	30,000	20,000	20,000	20,000	20,000	20,000	20,000	15,000	10,000	20,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	500,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	500,000	300,000
CU-AA	10,000	10,000	5,000	5,000	15,000	10,000	5,000	10,000	15,000	10,000
PB-AA	35,000	35,000	40,000	35,000	40,000	40,000	35,000	25,000	30,000	40,000
ZN-AA	50,000	80,000	50,000	50,000	55,000	40,000	45,000	25,000	40,000	70,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CD-AA										
TE-AA										
AU-AA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-COL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SB-COL	-1,000	-1,000	-1,000	-1,000	-1,000	-1,000	-1,000	-1,000	-1,000	-1,000



SOLOS DE PERFIS HCP.C GRANITOS DE CAMPINAS

NUM. LAB.	JAC423	JAD425	JAD427	JAD429	JAD431	JAE433	JAC435	JAD437	JAC439	JAC481
NUM. CAMPO	RH0201	RH0203	RHC205	RH0207	RH0209	RF0211	RH0213	RHC215	RHC217	RF0183A
C. CLSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300
PROCEDECENCIA	AD	AD	AD	AD	AD	AC	AC	AD	AD	AC
BASE CART.	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI
PASE CART.	3	3	3	3	3	3	3	3	3	3
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENACA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	312550	312550	312550	312550	312550	312550	312550	312550	312550	312632
UTM - LONG.	06579815	06579800	06579785	06579755	06579695	06579920	06579875	06579845	06579830	06580077
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	L	L	L	L	L	L	L	L	L	L
TIPO AMOST.	C	C	C	C	C	C	C	C	C	C
FONTE AMOST.	C	C	C	C	C	C	C	C	C	C
ROCHA REG.	S	S	S	S	S	S	S	S	S	S
ID. GEOLOG.	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
MAT. COLET.	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SCLC
PLUVIOSIDADE	B	B	B	B	B	B	B	B	B	B
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.	B	B	B	B	B	C	C	C	C	B
SIT. AMOST.										
ALTITUDE										
PROF. AMOST.	0,60	0,70	0,50	0,50	0,50	0,50	0,50	0,60	0,50	0,70
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCC.										
LARGURA RIO										
PROFUND. RIO										
VELOC. CARR.										
NIVEL AGUA										
AREA CRENAG.										
TURB. AGLA										
POS. COLETA										
COR AGLA										
GRAU ARREC.										
VCL. CRIGIN.										
PESO CCNC.										
GRANULOMET.										
TEXT. SEDIM.	433	433	532	532	532	343	343	433	532	1324
COR SEC./SL.	B	B	B	B	B	G	G	G	B	G
HORIZ. SOLO	C	C	C	C	C	C	C	C	C	C
TIPO. SOLO	F	F	F	F	F	F	F	F	F	F



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PROJETO LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

SOLOS DE PERFIS HCR.C GRANITOS DE CAMPINAS

NUM. LAB.	JAC403	JAD405	JAD407	JAD409	JAC411	JAC413	JAD415	JAD417	JAC419	JAC421
NUM. CAMPO	RH0181	RH0183	RHC185	RH0187	RH0189	RF0191	RF0193	RHC195	RHC197	RF0199
AMB. BIOTICO										

PARAMETROS ANALITICOS DE CAMPO

EF										
PH										
METAL TOTAL										
CODIF. LIVRE	F1111	F1091	F1001	F1021	F1041	F1061	F1081	F1101	F1121	F1141

PARAMETROS ANALITICOS

FE-S %	5,000	5,000	3,000	5,000	10,000	5,000	5,000	5,000	5,000	5,000
MG-S %	0,700	0,700	0,700	0,700	1,000	0,700	0,700	0,700	0,700	0,700
CA-S %	0,050	-0,050	-0,050	-0,050	-0,050	-0,050	-0,050	-0,050	-0,050	-0,050
TI-S %	0,700	0,700	0,500	0,700	1,000	0,700	0,700	0,700	0,700	1,000
MN-S	200,000	200,000	150,000	200,000	200,000	200,000	200,000	300,000	200,000	500,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	2,000	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
B-S	1000,000	100,000	20,000	100,000	50,000	100,000	100,000	100,000	100,000	70,000
BA-S	300,000	300,000	500,000	500,000	500,000	700,000	300,000	700,000	300,000	1000,000
BE-S	5,000	7,000	5,000	5,000	3,000	15,000	5,000	10,000	5,000	20,000
BI-S	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	10,000
CD-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
CO-S	10,000	10,000	5,000	10,000	15,000	15,000	10,000	10,000	10,000	10,000
CR-S	150,000	70,000	50,000	70,000	100,000	50,000	50,000	50,000	50,000	70,000
CU-S	15,000	15,000	10,000	10,000	15,000	10,000	15,000	15,000	15,000	30,000
LA-S	50,000	50,000	50,000	20,000	100,000	20,000	50,000	50,000	20,000	100,000
MO-S	5,000	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
NE-S	20,000	20,000	10,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000
NI-S	20,000	20,000	10,000	15,000	20,000	15,000	15,000	15,000	15,000	15,000
PB-S	100,000	100,000	100,000	70,000	100,000	50,000	70,000	70,000	70,000	150,000
SB-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SC-S	10,000	10,000	10,000	10,000	20,000	10,000	10,000	10,000	10,000	10,000
SN-S	300,000	100,000	70,000	200,000	50,000	200,000	70,000	200,000	70,000	300,000
SR-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
V-S	100,000	100,000	70,000	70,000	100,000	70,000	100,000	100,000	100,000	100,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
Y-S	20,000	20,000	10,000	20,000	30,000	20,000	20,000	20,000	10,000	20,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
ZR-S	500,000	300,000	200,000	300,000	300,000	500,000	500,000	300,000	300,000	300,000
CU-AA	15,000	10,000	10,000	10,000	5,000	5,000	10,000	10,000	15,000	15,000
PE-AA	40,000	40,000	45,000	35,000	45,000	30,000	20,000	30,000	30,000	50,000
ZN-AA	60,000	70,000	80,000	50,000	70,000	40,000	65,000	45,000	65,000	50,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CD-AA										
TE-AA										
AU-AA	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AS-COL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SB-COL	-1,000	-1,000	-1,000	-1,000	-1,000	-1,000	-1,000	-1,000	-1,000	-1,000

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PROJETO VANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

SOLCOS DE PERFIS HCR.C GRANITOS DE CAMPINAS

NUM. LAB.	JAD403	JAD405	JAD407	JAD409	JAD411	JAD412	JAD415	JAD417	JAD419	JAD421
NUM. CAMPO	RHO181	RHO183	RHO185	RHO187	RHO189	RHO191	RHO193	RHO195	RHO197	RHO199
C. CUSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CUSTO	300	300	300	300	300	300	300	300	300	300
PROCECENCIA	AD	AD	AD	AD	AD	AD	AD	AD	AD	AD
BASE CART.	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI
EASE CART.	3	3	3	3	3	3	3	3	3	3
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	312632	312632	312550	312550	312550	312550	312550	312550	312550	312550
UTM - LONG.	06580092	06580077	06579920	06579905	06579890	06579875	06579860	06579845	06579830	06579822
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	L	L	L	L	L	L	L	L	L	L
TIPC AMOST.	C	C	C	C	C	C	C	C	C	C
FENTE AMOST.	C	C	C	C	C	C	C	C	C	C
ROCHA REC.	S	S	S	S	S	S	S	S	S	S
ID. GEOLCG.	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
MAT. CCLET.	SOLO	SOLC	SOLC	SOLO	SOLO	SOLC	SOLO	SOLC	SOLO	SOLC
PLUVIOSIDADE	B	B	B	B	B	B	B	B	B	B
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TCPCG.	B	B	C	B	B	C	C	C	C	B
SIT. AMOST.										
ALTITUDE										
PRCF. AMOST.	0,65	0,70	0,50	0,50	0,50	0,50	0,75	0,60	0,50	0,70
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCCR.										
LARGURA RIO										
PRCFUNC. RIO										
VELOC. CCRR.										
NIVEL ACUA										
AREA DRENAG.										
TURB. ACUA										
POS. CCLETA										
COR ACUA										
GRAU AFREC.										
VOL. ORIGIN.										
PESO CCNC.										
GRANULOMET.										
TEXT. SEDIM.	1342	1324	343	343	343	343	433	433	532	433
COR SEC./SL.	C	G	G	B	B	C	G	G	B	B
HORIZ. SCLO	C	C	C	C	C	C	C	C	C	C
TIPO. SCLC	F	F	F	F	F	F	F	F	F	F



SISTEMA DE ESTATISTICA DE AMOSTRAGEM

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FOLHA DE CONTROLE - PROGRAMA PPGOMC07

\*\*\* OPCOES \*\*\*

ARQUIVO

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AMOSTRAS LIDAS 22

AMOSTRAS IMPRESSAS 22

N. INICIAL DA PAGINA 1

N. FINAL DA PAGINA 5

N. DE AMOSTRA INICIAL

N. DE AMOSTRAS FINAL

## SCLOS DE PERFIS HCR.A DE GRANITOS DE CAMPINAS

NUM. LAB.	JAD480	JAD482	JAD484
NUM. CAMPO	RH0182A	RHC190A	RHC200A
CXCU-CCL			
MET PES			
CO-CCL			
MO-CCL			
W-CCL	-20,000	-20,000	-20,000
P-CCL			
SE-CCL			
U-CCL			
TI-CCL 2			
HG-INS			
F-INS	1700,000	1400,000	1400,000
S-INS 2			
C-INS 2			
PH			
AU-P CFG			
AU-P ANL			

SCLOS DE PERFIS HCR.A DE GRANITOS DE CAMPINAS

NUM. LAB.	JAD480	JAD482	JAD484
NUM. CAMPO	RH0182A	RHC190A	RFC200A
AMB. BIOTICO			

PARAMETROS ANALITICOS DE CAMPO

EH			
PH			
METAL TOTAL			
CODIF. LIVRE	F1093	F1063	F1163

PARAMETROS ANALITICOS

FF-S %	3,000	3,000	3,000
HG-S %	0,300	0,300	0,500
CA-S %	0,100	-0,050	0,050
TI-S %	0,700	0,500	0,700
MN-S	200,000	300,000	200,000
AG-S	3,000	NAO DET.	0,700
AS-S	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.
B-S	700,000	200,000	200,000
BA-S	500,000	700,000	500,000
BE-S	7,000	5,000	30,000
BI-S	-10,000	-10,000	-10,000
CC-S	NAO DET.	NAO DET.	NAO DET.
CO-S	10,000	10,000	5,000
CR-S	20,000	50,000	30,000
CU-S	5,000	5,000	5,000
LA-S	50,000	50,000	20,000
MD-S	NAO DET.	NAO DET.	NAO DET.
NE-S	20,000	20,000	20,000
NI-S	15,000	15,000	15,000
PB-S	30,000	30,000	30,000
SB-S	NAO DET.	NAO DET.	NAO DET.
SC-S	5,000	5,000	5,000
SN-S	100,000	70,000	100,000
SR-S	NAO DET.	NAO DET.	NAO DET.
V-S	70,000	50,000	50,000
W-S	NAO DET.	NAO DET.	NAO DET.
Y-S	20,000	20,000	10,000
ZN-S	NAO DET.	NAO DET.	NAO DET.
ZR-S	500,000	300,000	500,000
CU-AA	5,000	5,000	5,000
PE-AA	30,000	25,000	25,000
ZN-AA	35,000	35,000	40,000
AG-AA	INTERFER.	INTERFER.	INTERFER.
CO-AA			
NI-AA			
BI-AA			
CC-AA			
TE-AA			
AU-AA	NAO DET.	NAO DET.	NAO DET.
AS-COL	-10,000	-10,000	-10,000
SB-COL	-1,000	-1,000	-1,000

S E A G

PROJETO - LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

## SCLOS DE PERFIS HCR.A DE GRANITOS DE CAMPINAS

NUM. LAB.	JAD480	JAD482	JAD4E4
NUM. CAMFC	RH0182A	RH0190A	RH0200A
C. CLSTO	1533	1533	1533
S. CUSTO	300	300	300
PRCEDECENCIA	AD	AD	AD
BASE CART.	SH22YAVI	SH22YAVI	SH22YAVI
BASE CART.	3	3	3
BASE CART.			
ESCALA	0050	0050	0050
CATA	08/75	08/75	08/75
LATITUDE			
LONGITUDE			
ABCISSA - X	0000	0000	0000
ORDENADA - Y	0000	0000	0000
UTM - LAT.	312632	312550	312550
UTM - LONG.	06580077	06579875	06579815
MER. CENT.	51	51	51

## PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	L	L	L
TIPO AMOST.	C	C	C
FONTE AMOST.	C	C	C
ROCHA REC.	S	S	S
ID. GEOLG.	AS	AS	AS
MAT. COLET.	SOLO	SOLC	SCLC
PLUVIOSIDADE	B	B	B
TIPO VEGET.	A	A	A
SIT. TOPOG.	B	C	B
SIT. AMOST.			
ALTITUDE			
PROF. AMOST.	0,35	0,20	0,30
FORMA IGNEA			
SIT. ESTRUT.			
MATRIZ PREC.			
GRAU INTEMP.			
TIPO ALTER.			
TIPO MINER.			
DEP. CCCOR.			
LARGURA RIO			
PROFUND. RIO			
VELOC. CCRR.			
NIVEL AGLA			
AREA DRENAG.			
TURB. AGLA			
POS. COLETA			
COR AGLA			
GRAU ARREC.			
VOL. ORIGIN.			
PESO CCNC.			
GRANULOMET.			
TEXT. SECIM.	32221	32221	32311
COR SEC./SL.	C	D	C
HORIZ. SCLO	A	A	A
TIPO SCLO	F	F	F



SOLOS DE PERFIS HCR.A DE GRANITOS DE CAMPINAS

NUM. LAB. NUM. CAMPO CXC-CCL MET PES CO-CCL MO-CCL W-CCL P-CCL SE-CCL U-CCL TI-CCL % FG-INS F-INS S-INS % C-INS % PH AU-P GRG AU-P ANL	JAC422 RH0200	JAD424 RH0202	JAD426 RH0204	JAD426A RH0204	JAD428 RH0206	JAC430 RH0208	JAD432 RH0210	JAD434 RH0212	JAD436 RH0214	JAC438 RH0216
W-CCL	-20,000	20,000	20,000	20,000	-20,000	-20,000	-20,000	-20,000	-20,000	-20,000
F-INS	1300,000	1100,000	1400,000	1400,000	1200,000	1700,000	2000,000	1700,000	1000,000	1300,000

S E A G

PROJETO - LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

SOLOS DE PERFIS HCR.A DE GRANITOS DE CAMPINAS

NUM. LAB.	JAC422	JAD424	JAC426	JAC426A	JAC428	JAC43C	JAC422	JAD424	JAC436	JAC438
NUM. CAMPO	RH0200	RH0202	RH0204	RH0204	RH0206	RH0208	RH0210	RHC212	RHC214	RH0216
AMB. BIOTICO										

PARAMETROS ANALITICOS DE CAMPO

EH										
PH										
METAL TOTAL										
COCIF. LIVRE	F1161	F1181	F1201	F1201	F1221	F1241	F1002	F1C62	F1102	F1122

PARAMETROS ANALITICOS

FE-S %	3,000	3,000	5,000		5,000	7,000	3,000	3,000	2,000	3,000
MG-S %	0,500	0,500	0,500		0,700	1,000	0,500	0,700	0,200	0,500
CA-S %	0,050	0,070	0,100		0,150	0,100	0,050	0,100	0,100	0,150
TI-S %	1,000	1,000	1,000		1,000	1,000	0,700	0,700	0,500	0,700
MN-S	300,000	500,000	300,000		500,000	700,000	300,000	300,000	200,000	300,000
AG-S	NAO DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAO DET.	5,000	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	200,000	500,000	300,000		500,000	200,000	200,000	200,000	1000,000	500,000
BA-S	500,000	700,000	700,000		1000,000	1500,000	700,000	1000,000	700,000	700,000
BE-S	5,000	5,000	5,000		50,000	10,000	5,000	5,000	20,000	10,000
BI-S	-10,000	-10,000	-10,000		-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
CO-S	NAO DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	5,000	7,000	10,000		10,000	15,000	7,000	10,000	5,000	10,000
CR-S	30,000	50,000	50,000		50,000	50,000	50,000	50,000	30,000	30,000
CU-S	5,000	10,000	10,000		10,000	20,000	10,000	10,000	10,000	15,000
LA-S	50,000	50,000	50,000		50,000	20,000	50,000	100,000	20,000	70,000
MO-S	NAO DET.	NAO DET.	NAO DET.		5,000	5,000	NAO DET.	NAO DET.	NAO DET.	NAO DET.
NB-S	20,000	20,000	20,000		20,000	20,000	20,000	20,000	20,000	30,000
NI-S	15,000	15,000	15,000		15,000	15,000	15,000	15,000	5,000	10,000
PB-S	20,000	50,000	50,000		50,000	100,000	70,000	70,000	70,000	50,000
SB-S	NAO DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	5,000	7,000	10,000		10,000	10,000	10,000	10,000	5,000	10,000
SN-S	100,000	50,000	100,000		50,000	150,000	500,000	100,000	1000,000	100,000
SR-S	NAO DET.	NAO DET.	NAO DET.		100,000	NAO DET.	NAO DET.	100,000	NAO DET.	NAO DET.
V-S	70,000	70,000	70,000		70,000	50,000	50,000	50,000	30,000	100,000
W-S	NAO DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	10,000	20,000	20,000		20,000	10,000	20,000	30,000	15,000	20,000
ZN-S	NAO DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	700,000	700,000	700,000		700,000	500,000	500,000	300,000	500,000	700,000
CU-AA	5,000	5,000	5,000	5,000	5,000	10,000	10,000	5,000	5,000	10,000
PB-AA	25,000	30,000	25,000	25,000	30,000	30,000	30,000	30,000	20,000	25,000
ZN-AA	40,000	40,000	45,000	45,000	55,000	55,000	40,000	45,000	5,000	40,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CO-AA										
TE-AA										
AU-AA	NAO DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-COL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SB-CCL	-1,000	-1,000	-1,000	-1,000	NAO DET.	-1,000	-1,000	-1,000	-1,000	-1,000

S E A G

PROJETO - LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

SCLOS DE PERFIS HCR.A DE GRANITOS DE CAMPINAS

NUM. LAB.	JAC422	JAD424	JAE426	JAD426A	JAC428	JAE430	JAD422	JAD424	JAD436	JAD438
NUM. CAMPO	RH0200	RH0202	RH0204	RH0204	RH0206	RH0206	RH0210	RHC212	RHC214	RH0216
C. CLSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300
PROFICIENCIA	AD	AD	AD	AD	AD	AD	AD	AD	AD	AD
BASE CART.	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI
BASE CART.	3	3	3	3	3	3	3	3	3	3
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	312550	312550	312550	312550	312550	312550	312550	312550	312550	312550
UTM - LONG.	06579815	06579800	06579785	06579785	06579755	06579695	06579920	06579875	06579845	06579830
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	L	L	L	L	L	L	L	L	L	L
TIPO AMOST.	C	C	C	C	C	C	C	C	C	C
FONTE AMOST.	C	C	C	C	C	C	C	C	C	C
ROCHA REC.	S	S	S	S	S	S	S	S	S	S
ID. GEOLCG.	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
MAT. COLET.	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SCLC
PLUVIOSIDADE	B	B	B	B	B	B	B	B	B	B
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.	B	B	B	B	B	B	B	B	B	B
SIT. AMOST.										
ALTITUDE										
PROF. AMOST.	0,30	0,20	0,30	0,30	0,20	0,25	0,15	0,20	0,30	0,30
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PRED.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCR.										
LARGURA FIC										
PPCFUNC. RIO										
VELOC. CCRR.										
NIVEL AGUA										
AREA DRENAG.										
TURB. AGLA										
POS. COLETA										
COR AGLA										
GRAU ARREC.										
VCL. ORIGIN.										
PESO CCNC.										
GRANULOMET.										
TEXT. SECJM.	32311	51121	42121	42121	33121	32111	4311	32221	32221	32221
COR SEC./SL.	D	D	C	C	C	C	D	D	D	D
HORIZ. SCLO	A	A	A	A	A	A	A	A	A	A
TIPO SCLO	F	F	F	F	F	F	F	F	F	F





SOLDS DE FERFIS HCP.A DE GRANITOS DE CAMPINAS

NUM. LAB. NUM. CAMPO AME. BIOTICO	JAC402 RH0180	JAD404 RH0182	JAC406 RH0184	JAD408 RH0186	JAC410 RH0188	JAC412 RH0190	JAC414 RH0192	JAD416 RHC154	JAC418 RHC196	JAC420 RH0198
PARAMETROS ANALITICOS DE CAMPO										
EH										
PH										
METAL TOTAL										
CODIF. LIVRE	F1111	F1091	F1001	F1021	F1041	F1061	F1081	F1101	F1121	F1141
PARAMETROS ANALITICOS										
FE-S %	3,000	2,000	3,000	3,000	3,000	3,000	3,000	2,000	3,000	2,000
MG-S %	0,300	0,300	0,500	0,500	0,500	0,300	0,300	0,300	0,500	0,300
CA-S %	0,070	0,100	0,070	0,100	0,100	-0,050	0,100	0,100	0,100	0,150
TI-S %	0,700	0,700	0,500	0,700	0,700	0,700	0,700	0,500	1,000	0,700
MN-S	200,000	200,000	200,000	300,000	300,000	200,000	200,000	200,000	300,000	500,000
AG-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	1,000
AS-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
AL-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
B-S	1000,000	1000,000	500,000	200,000	200,000	200,000	700,000	500,000	500,000	1000,000
BA-S	500,000	300,000	200,000	500,000	500,000	500,000	500,000	500,000	700,000	700,000
BE-S	5,000	7,000	30,000	5,000	15,000	5,000	5,000	5,000	20,000	5,000
BI-S	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
CO-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
CO-S	7,000	10,000	5,000	5,000	5,000	15,000	5,000	5,000	5,000	5,000
CR-S	50,000	20,000	50,000	50,000	30,000	50,000	30,000	20,000	30,000	50,000
CU-S	5,000	5,000	10,000	10,000	7,000	10,000	10,000	5,000	15,000	15,000
LA-S	70,000	50,000	50,000	20,000	50,000	50,000	20,000	20,000	50,000	20,000
MO-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
NB-S	15,000	20,000	20,000	20,000	20,000	20,000	20,000	15,000	20,000	20,000
NI-S	15,000	15,000	10,000	10,000	10,000	15,000	10,000	10,000	10,000	10,000
PE-S	30,000	30,000	100,000	50,000	50,000	50,000	50,000	20,000	70,000	50,000
SE-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
SC-S	7,000	5,000	10,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
SN-S	50,000	100,000	100,000	150,000	70,000	70,000	50,000	50,000	70,000	100,000
SR-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
V-S	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
W-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
Y-S	20,000	20,000	20,000	10,000	10,000	20,000	20,000	10,000	20,000	10,000
ZN-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
ZR-S	700,000	500,000	500,000	500,000	300,000	500,000	700,000	500,000	700,000	500,000
CU-AA	10,000	5,000	10,000	10,000	5,000	5,000	10,000	10,000	10,000	10,000
PE-AA	25,000	30,000	30,000	25,000	25,000	25,000	20,000	25,000	25,000	20,000
ZN-AA	40,000	35,000	40,000	35,000	45,000	35,000	35,000	35,000	45,000	40,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CO-AA										
TE-AA										
AU-AA	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
AS-COL	-10,000	-10,000	-10,000	-10,000	10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SB-COL	-1,000	-1,000	NAD DET.	NAD DET.	-1,000	-1,000	-1,000	-1,000	-1,000	-1,000

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PROJETO - LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

SOLOS DE PERFIS HCR.A DE GRANITOS DE CAMPINAS

NUM. LAB.	JAC402	JAC404	JAC406	JAC408	JAC410	JAC412	JAC414	JAC416	JAC418	JAC420
NUM. CAMPO	RH0180	RH0182	RH0184	RH0186	RH0188	RH0190	RH0192	RH0194	RH0196	RH0198
C. CLSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300
PROCECENCIA	AD	AD	AD	AD	AD	AD	AD	AD	AD	AD
BASE CART.	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI
BASE CART.	3	3	3	3	3	3	3	3	3	3
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75	08/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENACA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	312632	312632	312550	312550	312550	312550	312550	312550	312550	312550
UTM - LONG.	06580092	06580077	06579920	06579905	06579890	06579875	06579860	06579845	06579830	06579822
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	L	L	L	L	L	L	L	L	L	L
TIPO AMOST.	C	C	C	C	C	C	C	C	C	C
FONTE AMOST.	C	C	C	C	C	C	C	C	C	C
ROCHA REG.	S	S	S	S	S	S	S	S	S	S
IC. GEOLG.	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
MAT. CCLET.	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO
PLUVIOSIDADE	B	B	B	B	B	B	B	B	B	B
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.	B	B	C	B	B	C	C	C	C	B
SIT. AMOST.										
ALTITUDE										
PROF. AMOST.	0,40	0,35	0,15	0,25	0,30	0,20	0,40	0,30	0,30	0,35
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCR.										
LARGURA FIC										
PROFUND. RIO										
VELOC. CRR.										
NIVEL AGUA										
AREA DRENAG.										
TURB. AGUA										
POS. CCLETA										
COR AGUA										
GRAU ARREC.										
VOL. CRIGIN.										
PESO CCNC.										
GRANULOMET.										
TEXT. SECIM.	42111	32221	4311	32221	42111	32221	32221	32221	32221	32122
COR SEC./SL.	C	C	D	D	D	C	D	D	D	C
HORIZ. SCLO	A	A	A	A	A	A	A	A	A	A
TIPO SCLO	F	F	F	F	F	F	F	F	F	F

SISTEMA DE ESTATISTICA DE AMOSTRAGEM

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FOLHA DE CONTROLE - PROGRAMA PRGQMCC7

\*\*\* OPCOES \*\*\*

0 0 0 0 0 0 0 0 0

ARQUIVO

FS193133

AMOSTRAS LIDAS 23

AMOSTRAS IMPRESSAS 23

N. INICIAL DA PAGINA 1

N. FINAL DA PAGINA 9

N. DE AMOSTRA INICIAL

N. DE AMOSTRAS FINAL





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PPCJETC LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

SOLOS DE BACKGROUND HOR. C DE XISTOS DE CAMPINAS

NUM. LAB.	JAE994	JAE003	JAE005	-K	I	0	J	W	C	J	K	WP	K	V	XC	I	H	SX8	A
NUM. CAMPO	CG0110	CG0118	CG0120	-K	I	0	J	W	0	J	K	WP	K	V	XC	I	H	9X8	A
AMB. BIOTICO																			

PARAMETROS ANALITICOS DE CAMPO

EF			
PF			
METAL TOTAL			
COCIF. LIVRE	FC421	F0461	FC471

PARAMETROS ANALITICOS

FE-S %	15,000	10,000	10,000
MG-S %	0,500	0,700	0,500
CA-S %	0,050	0,070	0,100
TI-S %	+1,000	+1,000	+1,000
MN-S	1000,000	300,000	300,000
AG-S	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.
AL-S	NAO DET.	NAO DET.	NAO DET.
B-S	500,000	1000,000	700,000
BA-S	1500,000	1000,000	1500,000
BF-S	3,000	7,000	3,000
BI-S	NAO DET.	NAO DET.	NAO DET.
CC-S	NAO DET.	NAO DET.	NAO DET.
CO-S	50,000	7,000	10,000
CR-S	200,000	150,000	150,000
CU-S	100,000	30,000	50,000
LA-S	-20,000	30,000	30,000
MO-S	NAO DET.	7,000	-5,000
NE-S	30,000	20,000	20,000
NI-S	200,000	70,000	70,000
PB-S	30,000	30,000	20,000
SB-S	NAO DET.	NAO DET.	NAO DET.
SC-S	50,000	20,000	30,000
SN-S	INTERFER.	INTERFER.	INTERFER.
SR-S	-100,000	-100,000	-100,000
V-S	200,000	300,000	200,000
W-S	NAO DET.	NAO DET.	NAO DET.
Y-S	70,000	50,000	50,000
ZN-S	200,000	200,000	200,000
ZR-S	500,000	700,000	1000,000
CU-AA	40,000	20,000	25,000
PE-AA	20,000	30,000	25,000
ZN-AA	55,000	60,000	45,000
AG-AA	INTERFER.	INTERFER.	INTERFER.
CO-AA			
NI-AA			
BI-AA			
CC-AA			
TE-AA			
AU-AA	NAO DET.	NAO DET.	NAO DET.
AS-CCL	10,000	20,000	10,000
SB-CCL	-1,000	-1,000	-1,000

S E A G

PROJETO - VANTAMENTO GEOQUIMICO DO RGS

ENTRO DE CUSTO - 1533.300

SCLOS DE BACKGROUND POR C DE XISTOS DE CAMPINAS

NUM. LAB.	JAD994	JAE003	JAF005	-K	I	0	J	W	C	J	K	WP	K	V	XC	I	H	9X8	N
NUM. CAMPO	CG0110	CG0118	CG0120	-K	I	0	J	W	0	J	K	WP	K	V	XC	I	H	9X8	N
C. CLSTO	1533	1533	1533	-K	I	0	J	W	0	J	K	WP	K	V	XC	I	H	9X8	N
S. CLSTO	300	300	300																
PROCEDENCIA	AD	AD	AD																
BASE CART.	SH.22-YA	SH.22-YA	SH.22-YA																
BASE CART.	-VI-3	-VI-3	-VI-3																
BASE CART.																			
ESCALA	0050	0050	0050																
DATA	10/75	10/75	10/75																
LATITUDE																			
LONGITUDE																			
ABCISSA - X	0000	0000	0000																
ORDENADA - Y	0000	0000	0000																
UTM - LAT.	314150	311800	310850																
UTM - LONG.	06583500	06579200	06580200																
MER. CENT.	51	51	51																

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	L	L	L
TIPC AMOST.	A	A	A
FONTE AMOST.	F	F	F
ROCHA REC.	N	N	N
IC. GEOLG.			
MAT. COLET.	SOLO	SOLC	SOLC
PLUVIOSTADE	A	A	A
TIPO VEGET.	A	A	A
SIT. TOPOG.	B	C	B
SIT. AMOST.			
ALTITUDE			
PROF. AMOST.	0,30	0,30	0,30
FORMA IGNEA			
SIT. ESTRUT.			
MATRIZ PRED.			
GRAU INTEMP.			
TIPC ALTER.			
TIPC MINER.			
DEF. CCCER.			
LARGURA FIO			
PROFUND. FIO			
VELOC. CORR.			
NIVEL AGUA			
AREA DRENAG.			
TURB. AGUA			
POS. COLETA			
COR AGUA			
GRAU ABREC.			
VCL. ORIGIN.			
PESO CCNC.			
GRANULOMET.			
TEXT. SEDIM.	352	5311	3421
COR SEC./SL.	B	C	B
HORIZ. SCLO	C	C	C
TIPC SCLO	G	G	G

SISTEMA DE ESTATISTICA DE AMOSTRAGEM

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FOLHA DE CONTROLE - PROGRAMA PRGOMC07

\*\*\* OPCOES \*\*\*

ARQUIVO

C O O O O O C C O O

FS193142

AMOSTRAS LIDAS 3

AMOSTRAS IMPRESSAS 2

N. INICIAL DA PAGINA 1

N. FINAL DA PAGINA 3

N. DE AMOSTRA INICIAL

N. DE AMOSTRAS FINAL





SOLOS DE BACKGROUND FOR. A DE XISTOS DE CAMPINAS

NUM. LAB.	JAC993	JAFCC2	JAFCC4	JAE010	0	J	W	C	J	K	WP	K	V	XC	I	H	9XB	N
NUM. CAMPO	CG0109	CGC117	CGC119	CG0003	0	J	W	C	J	K	WP	K	V	XC	I	H	9XB	N
AMB. BIOTICO																		

PARAMETROS ANALITICOS DE CAMPO

EH				
PH				
METAL TOTAL				
COCIF. LIVRE	FC421	FC461	FC471	F0011

PARAMETROS ANALITICOS

FE-S %	10,000	3,000	7,000	10,000
MG-S %	0,300	0,300	0,500	0,700
CA-S %	0,100	0,150	0,100	0,100
TI-S %	+1,000	+1,000	+1,000	+1,000
MN-S	1500,000	700,000	700,000	500,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	150,000	2000,000	1000,000	+2000,000
BA-S	1000,000	1000,000	1500,000	1000,000
BE-S	2,000	7,000	2,000	30,000
BI-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CE-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	20,000	5,000	10,000	20,000
CR-S	150,000	100,000	150,000	200,000
CU-S	70,000	20,000	50,000	50,000
LA-S	-20,000	30,000	30,000	70,000
MO-S	NAO DET.	-5,000	-5,000	5,000
NB-S	20,000	20,000	20,000	30,000
NI-S	100,000	20,000	50,000	70,000
PB-S	20,000	30,000	20,000	50,000
SE-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	20,000	10,000	20,000	50,000
SN-S	INTERFER.	10,000	20,000	70,000
SR-S	-100,000	-100,000	-100,000	-100,000
V-S	200,000	150,000	200,000	300,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	50,000	50,000	50,000	100,000
ZN-S	200,000	-200,000	-200,000	200,000
ZR-S	300,000	1000,000	700,000	1000,000
CU-AA	25,000	10,000	20,000	15,000
PE-AA	15,000	15,000	20,000	20,000
ZN-AA	45,000	35,000	30,000	45,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA				
NI-AA				
BI-AA				
CE-AA				
TE-AA				
AU-AA	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-CCL	10,000	-10,000	10,000	10,000
SB-CCL	NAO DET.	NAO DET.	-1,000	-1,000

S E A G

PROJETO - VANTAMENTO GEOQUIMICO DO RGS

DENTRO DE CUSTO - 1533.300

SOLOS DE BACKGROUND FORA DE XISTOS DE CAMPINAS

NUM. LAB.	JAC993	JAEC02	JAEC04	JAEC10	0	J	W	C	J	K	WP	K	V	XC	I	H	SX8	N
NUM. CAMPO	CG0109	CGC117	CG0119	CG0003	0	J	W	C	J	K	WP	K	V	XC	I	H	9X8	N
C. CLSTO	1533	1533	1533	1533	0	J	W	0	J	K	WP	K	V	XC	I	H	9X8	N
S. CLSTO	300	300	300	300														
PROCEENCIA	AD	AD	AD	AD														
EASE CART.	SH.22-YA	SH.22-YA	SH.22-YA	SH.22-Y-														
BASE CART.	-VI-2	-VI-3	-VI-3	A-V2-3														
BASE CART.																		
ESCALA	0050	0050	0050	0050														
DATA	10/75	10/75	10/75	09/75														
LATITUDE																		
LONGITUDE																		
ABCISSA - X	0000	0000	0000	0000														
ORDENADA - Y	0000	0000	0000	0000														
UTM - LAT.	314150	311800	310850	311970														
UTM - LONG.	06583500	06579200	06580200	06579150														
MER. CENT.	51	51	51	51														

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	L	L	L	L
TIPO AMOST.	A	A	A	A
FONTE AMOST.	F	F	F	F
ROCHA REC.	N	N	N	N
ID. GEOLG.				
MAT. COLET.	SOLO	SOLO	SOLO	SOLO
PLUVIOSIDADE	A	A	A	B
TIPO VEGET.	A	A	A	E
SIT. TOPOG.	B	C	E	A
SIT. AMOST.				B
ALTITUDE				
PROF. AMOST.	0,05	0,10	0,10	0,30
FORMA IGNEA				
SIT. ESTRUT.				
MATRIZ PRED.				
GRAU INTEMP.				
TIPO ALTER.				
TIPO MINER.				
DEP. CCCOR.				
LARGURA RIO				
PERFUN. RIO				
VELOC. CORR.				
NIVEL AGLA				
AREA CRENAC.				
TURB. AGLA				
POS. COLETA				
COR AGLA				
GRAU ARREC.				
VOL. EFICIN.				
PESC CCNC.				
GRANULOMET.				
TEXT. SEDIM.	1711	532	1621	541
COR SEC./SL.	B	C	B	C
HORIZ. SOLO	A	A	A	A
TIPO SOLO	G	G	G	G

SISTEMA DE ESTATISTICA DE AMOSTRAGEM

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FOLHA DE CONTROLE - PROGRAMA PRGCMC07

\*\*\* OPCOES \*\*\*

0 0 0 0 0 0 C 0 0 0

ARQUIVO

FS193141

AMOSTRAS LIDAS 4

AMOSTRAS IMPRESSAS 4

N. INICIAL DA PAGINA 1

N. FINAL DA PAGINA 2

N. DE AMOSTRA INICIAL

N. DE AMOSTRAS FINAL





SOLOS DE BACKGROUND FOR.C DE GRANITOS DE CAMPINAS

NUM. LAB.	JAD990	JAD992	JAD996	JAD998	JAD998A	JAF001	JAECC7	JAECCS	P	K	V	XC	I	H	SXB	N
NUM. CAMPO	CG0106	CG0108	CG0112	CG0114	CG0114	CG0116	CG0122	CG0124	P	K	V	XC	I	H	SXB	N
AMB. BIOTICO																

PARAMETROS ANALITICOS DE CAMPO

EH									
PF									
METAL TOTAL									
COCIF. LIVRE	F0401	F0411	F0431	F0441	F0441	F0451	F0481	F0491	

PARAMETROS ANALITICOS

FF-S %	3,000	10,000	5,000	5,000		5,000	15,000	15,000	
MG-S %	0,500	1,000	1,000	1,000		1,000	0,700	2,000	
CA-S %	0,150	-0,050	1,000	0,500		0,500	0,050	0,500	
TI-S %	0,500	+1,000	1,000	+1,000		1,000	+1,000	+1,000	
MN-S	300,000	1000,000	500,000	300,000		300,000	300,000	700,000	
AG-S	NAC DET.	NAO DET.	NAC DET.	NAC DET.		NAO DET.	NAO DET.	NAO DET.	
AS-S	NAC DET.	NAO DET.	NAC DET.	NAC DET.		NAO DET.	NAO DET.	NAO DET.	
AL-S	NAC DET.	NAO DET.	NAC DET.	NAO DET.		NAO DET.	NAO DET.	NAO DET.	
B-S	200,000	200,000	70,000	300,000		150,000	100,000	50,000	
BA-S	500,000	2000,000	5000,000	5000,000		5000,000	2000,000	2000,000	
BE-S	20,000	5,000	5,000	3,000		20,000	20,000	50,000	
BI-S	-10,000	NAO DET.	NAC DET.	NAC DET.		NAC DET.	NAO DET.	NAO DET.	
CC-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.		NAO DET.	NAC DET.	NAO DET.	
CO-S	5,000	30,000	10,000	15,000		15,000	15,000	30,000	
CR-S	50,000	70,000	100,000	100,000		100,000	150,000	200,000	
CU-S	10,000	15,000	7,000	10,000		7,000	20,000	15,000	
LA-S	20,000	100,000	100,000	50,000		100,000	30,000	100,000	
MO-S	-5,000	NAO DET.	NAC DET.	NAC DET.		NAC DET.	NAO DET.	NAO DET.	
NB-S	20,000	30,000	20,000	20,000		20,000	20,000	30,000	
NI-S	20,000	50,000	20,000	20,000		20,000	70,000	100,000	
PE-S	100,000	100,000	100,000	100,000		100,000	100,000	100,000	
SE-S	NAC DET.	NAO DET.	NAC DET.	NAC DET.		NAO DET.	NAO DET.	NAO DET.	
SC-S	10,000	20,000	10,000	15,000		10,000	20,000	30,000	
SN-S	50,000	50,000	20,000	20,000		100,000	100,000	150,000	
SR-S	-100,000	-100,000	300,000	200,000		200,000	-100,000	-100,000	
V-S	100,000	200,000	100,000	150,000		100,000	200,000	200,000	
W-S	NAC DET.	NAO DET.	NAC DET.	NAO DET.		NAC DET.	NAO DET.	NAO DET.	
Y-S	20,000	70,000	20,000	15,000		20,000	50,000	50,000	
ZN-S	-200,000	200,000	NAC DET.	-200,000		-200,000	200,000	200,000	
ZR-S	200,000	700,000	500,000	700,000		700,000	700,000	500,000	
CU-AA	5,000	10,000	5,000	5,000	5,000	5,000	10,000	10,000	
PE-AA	30,000	30,000	20,000	25,000	25,000	20,000	35,000	40,000	
ZN-AA	30,000	65,000	55,000	55,000	55,000	65,000	60,000	80,000	
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	
CO-AA									
NI-AA									
BI-AA									
CO-AA									
TE-AA									
AU-AA	NAO DET.	NAO DET.	NAC DET.	NAO DET.		NAO DET.	NAO DET.	NAO DET.	
AS-CDL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	
SR-CEL	-1,000	-1,000	NAC DET.	-1,000	-1,000	NAO DET.	-1,000	-1,000	

S E A G

PROJETO - LAVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

SOLOS DE BACKGROUND POR.C DE GRANITOS DE CAMPINAS

NUM. LAB.	JAD990	JAD992	JAD996	JAD998	JAD998A	JAEOC1	JAEOC7	JAEOC9	P	K	V	XC	I	H	9X8	N
NUM. CAMPO	CG0106	CG0108	CG0112	CG0114	CG0114	CG0116	CG0122	CG0124	P	K	V	XC	I	H	9X8	N
C. CUSTO	1533	1533	1533	1533	1533	1533	1533	1533P	K	V	XC	I	H	9X8	N	
S. CUSTO	300	300	300	300	300	300	300	300								
PROCECENCIA	AD	AD	AD	AD	AD	AD	AD	AD								
BASE CART.	SH.22-YA	SH.22-YA	SH.22-YA	SH.22-YA	SH.22-YA	SH.22-YA	SH.22-YA	SH.22-YA								
BASE CART.	-VI-3	-VI-3	-VI-3	-VI-3	-VI-3	-VI-3	-VI-3	-VI-3								
BASE CART.																
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050								
DATA	10/75	10/75	10/75	10/75	10/75	10/75	10/75	10/75								
LATITUDE																
LONGITUDE																
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000								
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000								
UTM - LAT.	317550	315300	314525	313625	313625	314850	314250	314700								
UTM - LONG.	06582100	06583000	06582900	06582500	06582500	06581850	06578650	06578750								
MER. CENT.	51	51	51	51	51	51	51	51								

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	L	L	L	L	L	L	L	L	L
TIPO AMOST.	A	A	A	A	A	A	A	A	A
FONTE AMOST.	F	F	F	F	F	F	F	F	F
ROCHA REC.	D	D	D	D	D	D	D	D	D
ID. CECLOG.									
MAT. COLET.	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO
PLUVIOSIDADE	A	A	A	A	A	A	A	A	A
TIPO VEGET.	A	A	A	A	A	A	A	A	A
SIT. TOPOG.	B	B	A	A	A	B	B	B	B
SIT. AMOST.									
ALTITUDE									
PROF. AMOST.	0,50	0,30	0,30	0,30	0,30	0,30	0,40	0,30	
FORMA IGNEA									
SIT. ESTRUT.									
MATRIZ PRED.									
GRAU INTEMP.									
TIPO ALTER.									
TIPO MINER.									
DEP. CCCR.									
LARGURA RIO									
PROFUND. RIO									
VELOC. CCCR.									
NIVEL AGLA									
AREA CRENAG.									
TURB. AGLA									
POS. CELETA									
CCR AGUA									
GRAU AFREC.									
VOL. CRICIN.									
PESO CCNC.									
GRANULOMET.									
TEXT. SECIM.	9	1423	271	91	91	181	136	514	
COR SEC./SL.	I	C	I	C	C	C	B	C	
HORIZ. SCLC	C	C	C	C	C	C	C	C	
TIPO SCLC	G	G	G	G	G	G	G	G	

FOLHA DE CONTROLE - PROGRAMA PRGOMC07

\*\*\* O P C D E S \*\*\*

ARCLIVE

0 0 0 0 0 0 0 0 0 0

FS193132

AMOSTRAS LIDAS 8

AMOSTRAS IMPRESSAS 8

N. INICIAL DA PAGINA 1

N. FINAL DA PAGINA 3

N. DE AMOSTRA INICIAL

N. DE AMOSTRAS FINAL





S E A G

PROJET LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

SOCS DE BACKGROUND HCR. A DE GRANITOS DE CAMPINAS

NUM. LAB.	JAD989	JAD991	JAD995	JAD997	JAD999	JAE006	JAE008	J K W P	K V X C	I	H	SX8	N
NUM. CAMPO	CG0105	CG0107	CG0111	CG0113	CG0115	CG0121	CG0123	J K W P	K V X C	I	H	9X8	N
AMB. BIOTICO													

PARAMETROS ANALITICOS DE CAMPO

EF							
PH							
METAL TOTAL							
COEF. LIVRE	F0401	F0411	F0431	F0441	F0451	F0481	F0491

PARAMETROS ANALITICOS

FE-S %	3,000	5,000	3,000	3,000	3,000	5,000	7,000
MG-S %	0,500	0,700	1,000	1,000	1,000	0,700	1,500
CA-S %	0,150	0,150	1,000	0,700	0,500	0,150	0,700
TI-S %	1,000	+1,000	1,000	1,000	1,000	+1,000	+1,000
MN-S	300,000	1500,000	700,000	700,000	500,000	300,000	1000,000
AG-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.
B-S	200,000	500,000	100,000	200,000	200,000	200,000	150,000
BA-S	700,000	3000,000	5000,000	5000,000	5000,000	3000,000	5000,000
BE-S	50,000	7,000	5,000	3,000	10,000	50,000	15,000
BI-S	-10,000	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.
CC-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.
CD-S	7,000	20,000	10,000	10,000	10,000	10,000	20,000
CR-S	100,000	50,000	70,000	70,000	70,000	100,000	150,000
CU-S	10,000	15,000	10,000	7,000	7,000	15,000	15,000
LA-S	-20,000	70,000	150,000	70,000	100,000	50,000	100,000
MO-S	-5,000	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.
NE-S	30,000	30,000	20,000	20,000	20,000	30,000	30,000
NI-S	20,000	20,000	15,000	20,000	20,000	20,000	50,000
PE-S	70,000	150,000	150,000	100,000	70,000	100,000	100,000
SE-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
SC-S	10,000	15,000	10,000	10,000	10,000	20,000	30,000
SN-S	50,000	30,000	15,000	15,000	70,000	100,000	100,000
SR-S	-100,000	150,000	500,000	300,000	200,000	100,000	200,000
V-S	150,000	150,000	100,000	150,000	100,000	150,000	150,000
W-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.
Y-S	20,000	50,000	30,000	20,000	20,000	20,000	70,000
ZN-S	-200,000	200,000	NAC DET.	NAC DET.	-200,000	-200,000	NAO DET.
ZR-S	500,000	700,000	500,000	700,000	700,000	1000,000	+1000,000
CU-AA	5,000	10,000	5,000	5,000	5,000	5,000	10,000
PB-AA	25,000	30,000	25,000	25,000	20,000	25,000	30,000
ZN-AA	30,000	55,000	50,000	50,000	45,000	25,000	55,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA							
NI-AA							
BI-AA							
CE-AA							
TE-AA							
AU-AA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.
AS-COL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SB-COL	NAO DET.	NAO DET.	NAC DET.	-1,000	-1,000	-1,000	-1,000

S E A G

PROJETO - VANTAMENTO GEOQUIMICO DO RGS

DENTRO DE CUSTO - 1533.300

SOLCS DE BACKGROUND HCR. A DE GRANITOS DE CAMPINAS

NUM. LAB.	JAD989	JAD991	JAD995	JAD997	JAD999	JAEOCE	JAEOC8	J K W P	K V X C	I	H	9X8	N
NUM. CAMPO	CG0105	CG0107	CG0111	CG0113	CG0115	CG0121	CG0123	J K W P	K V X C	I	H	9X8	N
C. CLSTO	1533	1533	1533	1533	1533	1533	1533	J K W P	K V X C	I	H	9X8	N
S. CLSTO	300	300	300	300	300	300	300						
PROCEDENCIA	AD	AD	AD	AD	AD	AD	AD						
EASE CART.	SH.22-YA	SH.22-YA	SH.22-YA	SH.22-YA	SH.22-YA	SH.22-YA	SH.22-YA						
BASE CART.	-VI-3	-VI-3	-VI-3	-VI-3	-VI-3	-VI-3	-VI-2						
BASE CART.													
ESCALA	0050	0050	0050	0050	0050	0050	0050						
DATA	10/75	10/75	10/75	10/75	10/75	10/75	10/75						
LATITUDE													
LONGITUDE													
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000						
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000						
UTM - LAT.	317550	315300	314525	313625	314850	314250	314700						
UTM - LONG.	06582100	06583000	06582900	06582500	06581850	06578650	06578750						
MER. CENT.	51	51	51	51	51	51	51						

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	L	L	L	L	L	L	L						
TIPO AMOST.	A	A	A	A	A	A	A						
FONTE AMOST.	F	F	F	F	F	F	F						
ROCHA REC.	D	D	D	D	D	D	D						
ID. CECLCC.													
MAT. COLET.	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO						
PLUVIOSIDADE	A	A	A	A	A	A	A						
TIPO VEGFT.	A	A	A	A	A	A	A						
SIT. TOPOG.	B	B	A	B	B	B	B						
SIT. AMOST.													
ALTITUDE													
PERF. AMOST.	0,20	0,10	0,10	0,10	0,10	0,10	0,10						
FORMA IGNEA													
SIT. ESTRUT.													
MATRIZ PREC.													
GRAU INTEMP.													
TIPO ALTER.													
TIPO MINER.													
DEP. CCCOR.													
LARGURA FIO													
PROFUND. FIO													
VELOC. CORR.													
NIVEL AGLA													
AREA EPENAG.													
TURB. AGLA													
POS. CELFTA													
COR AGLA													
GRAU ARREC.													
VEL. FRIGIN.													
PESO CONC.													
GRANULOMET.													
TEXT. SEDIM.	81 1	91	15211	81 1	721	1531	631						
COR SEC./SL.	E	D	E	C	C	C	C						
HORIZ. SOLC	A	A	A	A	A	A	A						
TIPO SOLC	G	G	G	G	G	G	G						

SISTEMA DE ESTATISTICA DE AMOSTRAGEM

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FOLHA DE CONTROLE - PROGRAMA PRGCMG07

\*\*\* OPCOES \*\*\*

0 0 0 0 0 0 0 0 0

ARQUIVO

FS193131

AMOSTRAS LIDAS 7

AMOSTRAS IMPRESSAS 7

N. INICIAL DA PAGINA 1

N. FINAL DA PAGINA 3

N. DE AMOSTRA INICIAL

N. DE AMOSTRAS FINAL

S E A G

PROJETO - LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

## CONCENTRADOS PROVENIENTES DE ROCHAS XISTOSAS DE CAMPINAS

NUM. LAB.	JAC964	JAD972	JAC973	JAC974	JAC975	JAC978	JAC979	JAD9EC
NUM. CAMPO	CG0037	CG0057	CGCC59	CG0061	CG0063	CG0074	CG0076	CGCC78
OX.FERRO	20%-5%	NAO DET.	NAC DET.	NAC DET.	NAO DET.	< 5%	20%-5%	< 5%
P TOT(G)	63,400	80,100	116,100	97,100	90,600	77,500	119,000	73,200
P QRT(G)	4,700	10,900	10,800	10,900	12,000	10,300	8,400	8,200
P COC(G)	1,300	2,600	2,600	1,800	2,200	1,100	2,200	1,200



CONCENTRACOES PROVENIENTES DE POCHAS XISTOSAS DE CAMPINAS

NUM. LAB.	JAC964	JAC972	JAC973	JAC974	JAC975	JAC978	JAC979	JAC980
NUM. CAMPO	CG0037	CG0057	CG0059	CG0061	CG0063	CG0074	CG0076	CG0078
ILMENITA	< 5%	< 5%	60%-20%	20%-5%	20%-5%	< 5%	< 5%	< 5%
LIMONITA	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.
CASSITA	20%-5%	< 5%	< 5%	NAC DET.	< 5%	NAC DET.	< 5%	< 5%
COL-TAN.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
VOLFRAM.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SCHFEEL.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
OX.-MAN.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
RUTILO	NAC DET.	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	NAO DET.
CRONITA	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
MCNAZITA	NAO DET.	< 5%	NAC DET.	NAO DET.	NAO DET.	NAC DET.	< 5%	< 5%
ZIRCON	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%
XENOT.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.
ANATASIO	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%
PIROCL.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.
MICROL.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
OURIO	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.
ARS.PIR.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.
PIRITA	< 5%	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	< 5%	NAO DET.
MARCASS.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.
CALCOP.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
GALENA	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.
ESFAPEL.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.
CINABRIO	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.
MOLIBD.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CIAMANTE	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
TOPAZIO	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.
GRANADA	< 5%	20%-5%	20%-5%	< 5%	< 5%	20%-5%	20%-5%	NAO DET.
PIROXEN.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.
ANFIBOL.	NAO DET.	NAO DET.	< 5%	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
MI-CLOF.	< 5%	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.
TURMAL.	60%-20%	60%-20%	60%-20%	60%-20%	60%-20%	20%-5%	20%-5%	< 5%
CIANITA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	< 5%	NAC DET.	NAO DET.	NAO DET.
ESTAURO	< 5%	60%-20%	20%-5%	20%-5%	20%-5%	NAO DET.	< 5%	< 5%
ANGALUZ.	NAO DET.	NAO DET.	< 5%	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SILIMAN.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.
EPIDOTO	NAO DET.	< 5%	NAC DET.	NAO DET.	NAO DET.	NAO DET.	< 5%	NAO DET.
CORINCON	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.
TITANITA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
GHANITA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.
ESPINEL.	NAO DET.	< 5%	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.
MIN-BER.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.
MIN-LIT.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
GLAUCCO.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.
FOSFATO	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.
OLIVINA	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.
LEUCOX.	NAO DET.	< 5%	< 5%	20%-5%	< 5%	< 5%	< 5%	< 5%
CARBON.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.
APATITA	NAO DET.	< 5%	< 5%	< 5%	< 5%	NAO DET.	NAO DET.	NAC DET.
BARITINA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.
FLUORITA	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
BROOKITA	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.
MICAS	NAO DET.	< 5%	< 5%	< 5%	< 5%	20%-5%	< 5%	60%-20%
FRAG. RCH	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.

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PROJETO - VANTAMENTO GEOQUIMICO DO RGS

ENTRO DE CUSTO - 1533.300

CONCENTRADOS PROVENIENTES DE ROCHAS XISTOSAS DE CAMPINAS

NUM. LAB.	JAD964	JAD972	JAD973	JAD974	JAD975	JAD978	JAD979	JAD980
NUM. CAMPO	CG0037	CG0057	CG0059	CG0061	CG0063	CG0074	CG0076	CG0078
AMB. BIOTICO								

PARAMETROS ANALITICOS DE CAMPO

EH								
PH			6,5					
METAL TOTAL								
CODIF. LIVRE	FB261	FB371	FB381	FB391	FB401	FB451	FB461	FB471

PARAMETROS ANALITICOS

FE-S %	10,000	3,000	10,000	5,000	3,000	7,000	5,000	7,000
MG-S %	0,300	0,500	0,300	0,300	0,500	0,200	0,150	0,200
CA-S %	0,100	0,150	0,150	0,150	0,150	0,200	0,100	0,100
TI-S %	0,700	0,500	+1,000	1,000	1,000	0,700	0,500	0,700
MN-S	1500,000	3000,000	2000,000	1000,000	1000,000	3000,000	700,000	300,000
AG-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	2000,000	2000,000	2000,000	2000,000	2000,000	500,000	2000,000	70,000
BA-S	300,000	500,000	700,000	1000,000	700,000	500,000	300,000	700,000
BE-S	100,000	150,000	30,000	70,000	50,000	10,000	70,000	2,000
BI-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	15,000	15,000	30,000	30,000	20,000	15,000	15,000	20,000
CR-S	70,000	50,000	70,000	50,000	50,000	50,000	50,000	70,000
CU-S	20,000	-5,000	15,000	15,000	7,000	10,000	15,000	15,000
LA-S	150,000	NAO DET.	200,000	30,000	50,000	20,000	50,000	150,000
MO-S	15,000	-5,000	10,000	7,000	5,000	-5,000	5,000	-5,000
NE-S	100,000	50,000	100,000	30,000	30,000	20,000	30,000	15,000
NI-S	30,000	20,000	50,000	50,000	30,000	30,000	50,000	50,000
PE-S	30,000	30,000	30,000	30,000	20,000	20,000	30,000	20,000
SE-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.
SC-S	15,000	10,000	15,000	15,000	10,000	15,000	10,000	15,000
SN-S	+1000,000	+1000,000	+1000,000	700,000	500,000	700,000	+1000,000	700,000
SR-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
V-S	150,000	50,000	100,000	70,000	70,000	70,000	70,000	70,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	-50,000
Y-S	70,000	70,000	70,000	30,000	30,000	20,000	50,000	30,000
ZN-S	200,000	300,000	300,000	200,000	300,000	NAC DET.	-200,000	-200,000
ZR-S	100,000	500,000	300,000	200,000	200,000	300,000	100,000	100,000
CU-AA								
PE-AA								
ZN-AA								
AG-AA								
CO-AA								
NI-AA								
BI-AA								
CD-AA								
TE-AA								
AU-AA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.
MAGNET.	20%-5%	20%-5%	< 5%	20%-5%	< 5%	20%-5%	< 5%	20%-5%
HEMATITA	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.

S E A G

PROJET LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

## CONCENTRADOS PROVENIENTES DE ROCHAS XISTOSAS DE CAMPINAS

NUM. LAB.	JAD964	JAD972	JAD973	JAD974	JAD975	JAD978	JAD979	JAD9EC
NUM. CAMPO	CG0037	CG0057	CG0059	CG0061	CG0063	CG0074	CG0076	CG0078
C. CUSTO	1533	1533	1533	1533	1533	1533	1533	1533
S. CUSTO	300	300	300	300	300	300	300	300
PROCECENCIA	AD	AD	AC	AD	AD	AC	AD	AD
BASE CART.	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI
BASE CART.	3	3	3	3	3	3	3	3
BASE CART.								
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050
DATA	09/75	09/75	09/75	09/75	09/75	09/75	09/75	09/75
LATITUDE								
LONGITUDE								
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	315170	312180	312180	311380	310550	315500	315580	312630
UTM - LONG.	06583250	06581380	06581600	06582000	06583250	06586100	06585320	06584730
MER. CENT.	51	51	51	51	51	51	51	51

## PARÂMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	B	B	B	B	B	B	B	B
TIPO AMOST.	A	A	A	A	B	A	A	A
FONTE AMOST.	L	L	L	L	L	L	L	L
ROCHA REC.	N	N	N	N	N	N	N	N
ID. GEOLÓG.								
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	C	D	D	D	D	B	B	B
TIPO VEGET.	E	E	E	E	E	C	D	D
SIT. TOPOG.	A	A	A	A	A	A	A	A
SIT. AMOST.	B	C	C	C	C	B	C	C
ALTITUDE								
PROF. AMOST.		0,30	0,30	0,30	0,30		0,30	0,30
FORMA IGNEA								
SIT. ESTRUT.								
MATRIZ PREC.								
GRAU INTEMP.								
TIPO ALTER.								
TIPO MINER.								
DEP. COCCO.								
LARGURA RIO	3	5	7	7	8	4	4	3
PROFUND. RIO	0,6	0,3	0,5	0,7	0,6	0,3	0,4	0,3
VELOC. CORR.	3	2	3	3	3	2	2	2
NIVEL AGUA	3	2	3	3	3	2	2	2
AREA DEFENAG.	1	1	2	2	2	1	1	1
TURB. AGUA	3	2	1	2	1	0	C	0
POS. COLETA	C	C	C	C	C	C	C	C
COR AGUA	C	D	C	C	C	A	A	A
GRAU ARRED.	B	B	B	B	B	B	C	B
VOL. CRIGIN.	6	6	6	6	6	6	6	6
PESC COCCO.	78	98	144	123	111	97	148	93
GRANULOMET.	AG	AG	AG	AG	AG	AG	AG	AG
TEXT. SEDIM.	181	37	28	19	28	15	28	15
COR SED./SL.								
HORIZ. SCLO								
TIPO SCLC								



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PROJETO - LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

## CONCENTRADOS PROVENIENTES DE ROCHAS XISTOSAS DE CAMPINAS

NUM. LAB.	JAC954	JAC955	JAC956	JAC957	JAC958	JAC959	JAC960	JAC961	JAC962	JAC963
NUM. CAMPO	CG0002	CG0006	CG0009	CG0015	CG0020	CG0025	CG0027	CG0029	CG0031	CG0035
OX. FERRO	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	< 5%	NAO DET.	20%-5%	NAC DET.	20%-5%
	< 5%	< 5%	20%-5%	20%-5%	20%-5%	20%-5%	20%-5%	< 5%	< 5%	20%-5%
P TOT(G)	126,400	159,500	78,400	183,700	91,600	56,500	64,900	50,900	139,500	72,600
P ORT(G)	3,000	3,900	2,500	4,600	3,900	6,200	9,700	8,500	3,400	5,400
P CQC(G)	1,100	2,200	1,300	1,900	1,200	0,900	0,600	0,900	1,000	1,600



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PROJETO LEVANTAMENTO GEOQUIMICO DO PGS

CENTRO DE CLUSTO - 1533.300

## CONCENTRAÇÕES PROVINIENTES DE ROCHAS XISTOSAS DE CAMPINAS

NUM. LAB.	JAC954	JAC955	JAC956	JAC957	JAC958	JAC959	JAC960	JAC961	JAC962	JAC963
NUM. CAMPO	CG0002	CG0006	CG0009	CG0015	CG0020	CG0025	CG0027	CG0029	CG0031	CG0035
ILMENITA	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	20%-5%	20%-5%	< 5%	20%-5%
LIMONITA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CASSIT.	20%-5%	20%-5%	20%-5%	20%-5%	20%-5%	20%-5%	NAO DET.	60%-20%	NAC DET.	< 5%
COL-TAN.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
VOLFRAM.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SCHEEL.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	< 5%	NAC DET.	NAO DET.	< 5%	NAC DET.
OX.-MAN.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
RUTILO	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	< 5%	< 5%	< 5%	NAC DET.	NAC DET.
CROMITA	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
MONAZITA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	< 5%	NAO DET.	NAO DET.	NAC DET.	< 5%
ZIRCON	NAO DET.	NAO DET.	< 5%	< 5%	< 5%	< 5%	< 5%	20%-5%	< 5%	< 5%
XENOT.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
ANATASIO	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%
PIROCL.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
MICROL.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
OUFO	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
ARS.PIR.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
PIRITA	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
MARCASS.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CALCOPI.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
GALENA	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
ESFAREL.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CINABRIO	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
MOLIBD.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
DIAMANTE	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
TOPAZIO	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
GRANADA	< 5%	< 5%	20%-5%	20%-5%	20%-5%	20%-5%	< 5%	< 5%	NAC DET.	< 5%
PIROXEN.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
ANFIBOL.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
MI-CLOP.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	< 5%	< 5%
TURMAL.	> 60%	> 60%	> 60%	> 60%	> 60%	> 60%	60%-20%	20%-5%	60%-20%	60%-20%
CIANITA	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
ESTAUR.	60%-20%	60%-20%	60%-20%	60%-20%	60%-20%	60%-20%	< 5%	< 5%	20%-5%	60%-20%
ANCALUZ.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SILIMAN.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
EPIDOTO	< 5%	< 5%	< 5%	NAC DET.	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%
CORINDON	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
TITANITA	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
GARNITA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
ESPIHEL.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
MIN-BER.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
MIN-LIT.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
GLAUCON.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
FOSFATO	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
OLIVINA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
LEUCOX.	20%-5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%
CARBON.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
APATITA	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	< 5%	NAC DET.
BARITINA	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
FLUORITA	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
BROCKITA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
MICAS	NAO DET.	< 5%	< 5%	< 5%	< 5%	< 5%	NAO DET.	NAO DET.	NAC DET.	NAC DET.
FRAG. RCH	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.





S E A G

PROJET LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

## CONCENTRADOS PROVENIENTES DE ROCHAS XISTOSAS DE CAMPINAS

NUM. LAB.	JAC954	JAC955	JAC956	JAC957	JAC958	JAC959	JAC960	JAC961	JAC962	JAC963
NUM. CAMPO	CG0002	CG0006	CG0009	CG0015	CG0020	CG0025	CG0027	CG0029	CG0031	CG0035
C. CUSTO	1533	1533	1533	1533	1533	1533	1522	1533	1533	1533
S. CUSTO	300	300	300	300	300	300	300	300	300	300
PRECEDENCIA	AD	AD	AD	AD	AD	AC	AD	AD	AD	AC
BASE CART.	SH-22-Y-	SB-22-Y-	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI
BASE CART.	A-VI-3	A-VI-3	3	3	3	3	3	3	3	3
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	09/75	09/75	09/75	09/75	09/75	09/75	09/75	09/75	09/75	09/75
LATITUDE										
LONGITUDE										
ABSCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	311970	311880	312050	311500	310880	310000	305000	310640	310940	314620
UTM - LONG.	06579150	06579430	06579750	06580650	06579620	06580330	06579750	06580880	06582030	06583340
MER. CENT.	51	51	51	51	51	51	51	51	51	51

## PARÂMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	B	B	B	B	B	B	B	B	B	B
TIPO AMOST.	A	A	A	A	A	A	A	A	A	A
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REC.	N	N	N	N	N	N	N	N	N	N
ID. CECLEG.										
MAT. CCLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	B	B	B	B	B	B	B	B	B	C
TIPO VEGET.	E	E	E	E	E	E	A	E	E	E
SIT. TOPOG.	A	A	A	A	A	A	A	A	A	A
SIT. AMOST.	B	B	C	C	B	C	B	C	C	C
ALTITUDE										
PROF. AMOST.	0,30	0,30	0,30		0,10				0,30	
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCC.										
LARGURA RIO	2	2	1	3	3	3	4	3	6	6
PROFUND. RIO	0,1	0,1	0,1	0,4	0,2	0,4	0,4	0,4	0,4	0,6
VELOC. CORR.	2	2	2	3	2	2	2	2	2	3
NIVEL AGUA	2	2	2	2	2	2	2	2	2	3
AREA DRENAG.	1	1	1	1	1	1	1	1	1	1
TURB. AGUA	0	0	0	0	0	0	C	0	0	3
POS. CCLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	A	A	A	A	A	A	A	A	C	C
GRAU ARREC.	B	B	B	B	B	B	B	C	B	B
VOL. ORIGIN.	6	6	6	6	6	6	6	6	6	6
PESO CCNC.	154	192	93	220	110	72	80	63	173	88
GRANULOMET.	AM	AG	AG	AG	AG	AG	AG	AG	AG	AG
TEXT. SEDIM.	2611	271	181	271	91	37	37	19	28	28
COR SEC./SL.										
HORIZ. SOLO										
TIPO SOLO										

CPRM

LISTAGEM DE AMOSTRAS

04.02.76

FLA. UNICA

SISTEMA DE ESTATISTICA DE AMOSTRAGEM

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FOLHA DE CONTROLE - PROGRAMA PRGCMCC7

\*\*\* OPCOES \*\*\*

0000000000

ARQUIVO

FS193420

AMOSTRAS LIDAS 18

AMOSTRAS IMPRESSAS 18

N. INICIAL DA PAGINA 1

N. FINAL DA PAGINA 8

N. DE AMOSTRA INICIAL

N. DE AMOSTRAS FINAL



S E A G

PROJETO - LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

CONCENTRACCS PROVINIENTES DE ROCHAS GRANITICAS

NUM. LAB.	JAD9E2
NUM. CAMFO	CG0088
	NAO DET.
OX.FERRO	20%-5%
P TOT(G)	93,800
P ORT(G)	15,900
P CO(G)	1,400

## CONCENTRACCS PRCVINIENTES DE ROCHAS GRANITICAS

NUM. LAB.	JAC982
NUM. CAMPO	CG0088
ILMENITA	20%-5%
LIMONITA	NAO DET.
CASSIT.	20%-5%
COL-TAN.	NAO DET.
VOLFRAM.	NAO DET.
SCHEEL.	NAO DET.
OX.-MAN.	NAO DET.
RUTILC	NAO DET.
CROMITA	NAO DET.
MONAZITA	< 5%
ZIRCO	< 5%
XENOT.	NAO DET.
ANATASIO	< 5%
PIROCL.	NAO DET.
MICROL.	NAO DET.
OUFO	NAO DET.
ARS.PIR.	NAO DET.
PIRITA	NAO DET.
MARCASS.	NAO DET.
CALCOP.	NAO DET.
GALENA	NAO DET.
ESFANEL.	NAO DET.
CINABRIO	NAO DET.
MOLIBD.	NAO DET.
DIAMANTE	NAO DET.
TOPAZIO	NAO DET.
GRANADA	60%-20%
PIROXEN.	NAO DET.
ANFIBOL.	NAO DET.
MI-CLOF.	NAO DET.
TURMAL.	20%-5%
CIANITA	< 5%
ESTAUR.	20%-5%
ANCALUZ.	NAO DET.
SILIMAN.	NAO DET.
EPIDOTO	< 5%
CORINECN	NAO DET.
TITANITA	NAO DET.
GARNITA	NAO DET.
ESPINEL.	20%-5%
MIN-BER.	NAO DET.
MIN-LIT.	NAO DET.
GLAUCCA.	NAO DET.
FOSFATO	NAO DET.
OLIVINA	NAO DET.
LEUCOX.	< 5%
CARBON.	NAO DET.
APATITA	NAO DET.
BARITINA	NAO DET.
FLUORITA	NAO DET.
BROCKITA	NAO DET.
MICAS	< 5%
FRAG. RCH	NAO DET.

CONCENTRACCS PROVINIENTES DE ROCHAS GRANITICAS

NUM. LAB. JAD9E2  
 NUM. CAMPO CG0088  
 AMB. BIOTICO

PARAMETROS ANALITICOS DE CAMPO

EH  
 PH  
 METAL TOTAL  
 CODIF. LIVRE FB541

PARAMETROS ANALITICOS

FE-S %	2,000
MG-S %	0,100
CA-S %	0,100
TI-S %	0,500
MN-S	3000,000
AG-S	NAC DET.
AS-S	NAC DET.
AU-S	NAC DET.
B-S	INTERFER.
BA-S	200,000
BE-S	70,000
BY-S	NAC DET.
CE-S	NAC DET.
CO-S	5,000
CR-S	15,000
CU-S	-5,000
LA-S	150,000
MC-S	NAC DET.
NE-S	30,000
NI-S	15,000
PB-S	30,000
SE-S	NAC DET.
SC-S	NAC DET.
SN-S	+1000,000
SR-S	NAC DET.
V-S	30,000
W-S	NAC DET.
Y-S	-10,000
ZN-S	NAC DET.
ZR-S	70,000
CU-AA	
PE-AA	
ZN-AA	
AG-AA	
CO-AA	
NI-AA	
BI-AA	
CE-AA	
TE-AA	
AU-AA	NAC DET.
MAGNET.	< 5%
HEMATITA	NAC DET.

S E A G

PROJETO - VANTAGEM GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

## CONCENTRADOS PROVENIENTES DE ROCHAS GRANITICAS

NUM. LAE.	JAC982
NUM. CAMPO	CG0088
C. CUSTO	1533
S. CUSTO	300
PROCECENCIA	AD
BASE CART.	SH22YAVI
BASE CART.	3
BASE CART.	
ESCALA	0050
DATA	09/75
LATITUDE	
LONGITUDE	
ABCISSA - X	0000
ORDENADA - Y	0000
UTM - LAT.	315750
UTM - LONG.	06575000
MER. CENT.	51

## PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	B
TIPO AMOST.	A
FONTE AMOST.	L
ROCHA REC.	S
TC. CECLEC.	
MAT. CCLET.	ALUV
PLUVIOSIDADE	B
TIPO VEGET.	D
SIT. TCPOG.	A
SIT. AMOST.	C
ALTITUDE	
PFCF. AMOST.	
FORMA IGNEA	
SIT. ESTRUT.	
MATRIZ PRED.	
GRAU INTEMP.	
TIPC ALTER.	
TIPC MINER.	
DEP. CCCC.	
LARGURA FIO	3
PROFUN. RIO	0,3
VELCC. CCCR.	2
NIVEL AGUA	2
AREA CFENAG.	1
TURB. AGUA	0
POS. CCLETA	C
COR AGLA	A
GRAU ARREC.	B
VOL. CRIGIN.	6
PESO CCNC.	89
GRANULOMET.	AG
TEXT. SECIM.	28
COR SEC./SL.	
HORIZ. SOLO	
TIPO SOLO	



CONCENTRADOS PROVENIENTES DE ROCHAS GRANITICAS

NUM. LAB.	JAC965	JAC966	JAC967	JAC968	JAC969	JAC970	JAC971	JAC976	JAC977	JAC981
NUM. CAMPO	CG0040	CG0042	CG0045	CG0047	CG0050	CG0052	CG0054	CG0066	CG0068	CG0085
OX. FERRO	NAC DET.	< 5%	NAC DET.	< 5%	< 5%	< 5%	20%-5%	NAC DET.	NAC DET.	NAC DET.
P TOT(G)	36,000	118,700	66,200	71,200	56,400	25,500	50,200	35,500	70,000	85,000
P ORT(G)	10,000	4,400	4,900	7,900	7,600	7,500	7,500	NAC DET.	10,500	5,000
P CO(G)	0,400	2,400	2,200	1,600	1,800	1,000	1,200	0,500	3,000	1,500

S E A G

PROJETO - VANTAGEM GEOQUIMICA DO RGS

CENTRO DE CUSTO - 1533.300

CONCENTRADOS PROVINIENTES DE ROCHAS GRANITICAS

NUM. LAB.	JAD965	JAD966	JAD967	JAD968	JAD969	JAD970	JAD971	JAD976	JAD977	JAD981
NUM. CAMPO	CG0040	CG0042	CG0045	CG0047	CG0050	CG0052	CG0054	CG0066	CG0068	CG0085
ILMENITA	< 5%	< 5%	< 5%	20%-5%	20%-5%	< 5%	< 5%	20%-5%	60%-20%	< 5%
LIMONITA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CASSIT.	< 5%	< 5%	20%-5%	< 5%	NAO DET.	< 5%	< 5%	NAO DET.	20%-5%	< 5%
COL-TAN.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
VOLFRAM.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SCHTEL.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
OX.-MAN.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
RUTILO	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	< 5%	< 5%	NAO DET.
CRIMITA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
MONAZITA	< 5%	NAO DET.	< 5%	NAO DET.	< 5%	< 5%	< 5%	NAO DET.	NAO DET.	< 5%
ZIRCO	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%
XENOT.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ANATASIO	< 5%	NAO DET.	NAO DET.	< 5%	< 5%	< 5%	NAO DET.	< 5%	NAO DET.	< 5%
PIROCL.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
MICROL.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
OUFO	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ARS-PIR.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
PIRITA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
MARCASS.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CALCCP.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
GALENA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ESFARL.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CINABRIO	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
MOLIBD.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
DIAMANTE	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
TOPAZIO	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
GRANADA	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	20%-5%	< 5%
PIROXEN.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ANFIBOL.	NAO DET.	< 5%	< 5%	< 5%	NAO DET.	NAO DET.	< 5%	NAO DET.	NAO DET.	NAO DET.
MI-CLOF.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
TURMAL.	> 60%	> 60%	60%-20%	20%-5%	60%-20%	60%-20%	60%-20%	> 60%	60%-20%	60%-20%
CIANITA	< 5%	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	< 5%
ESTAUR.	20%-5%	< 5%	20%-5%	> 60%	60%-20%	20%-5%	60%-20%	20%-5%	60%-20%	60%-20%
ANCALUZ.	< 5%	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	< 5%	NAO DET.	NAO DET.
SILIMAN.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
EPIDOTO	NAO DET.	< 5%	< 5%	< 5%	< 5%	< 5%	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CORINCON	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
TITANITA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
GARNITA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ESPIHEL.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	< 5%
MIN-BEP.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
MIN-LIT.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
GLAUCCN.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
FOSFATC	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
OLIVINA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
LEUCOX.	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%
CARBON.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
APATITA	NAO DET.	NAO DET.	< 5%	NAO DET.	< 5%	NAO DET.	< 5%	NAO DET.	NAO DET.	< 5%
BARITINA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
FLUORITA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
BROCKITA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
MICAS	NAO DET.	< 5%	< 5%	< 5%	< 5%	20%-5%	< 5%	< 5%	< 5%	< 5%
FRAG. RCH	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.

S E A G

PROJETO LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

CONCENTRACOES PROVENIENTES DE ROCHAS GRANITICAS

NUM. LAB.	JAD965	JAD966	JAD967	JAD968	JAD969	JAD970	JAD971	JAD976	JAD977	JAD981
NUM. CAMPO	CG0040	CG0042	CG0045	CG0047	CG0050	CG0052	CG0054	CG0066	CG0068	CG0085
AMB. BIOTICO										

PARAMETROS ANALITICOS DE CAMPO

EH										
PF										
METAL TOTAL										
CODIF. LIVRE	FB281	FB291	FB301	FB311	FB331	FB341	FB351	FB411	FB421	FB521

PARAMETROS ANALITICOS

FE-S %	1,500	15,000	15,000	3,000	10,000	3,000	2,000	1,000	10,000	3,000
MG-S %	0,100	1,500	0,700	0,300	0,500	0,500	0,300	0,070	0,300	0,500
CA-S %	0,150	0,150	0,150	0,100	0,150	0,150	0,150	0,100	0,100	0,070
TI-S %	0,150	1,000	0,700	1,000	+1,000	0,500	0,300	0,200	+1,000	1,000
MN-S	500,000	1000,000	3000,000	1500,000	1500,000	300,000	700,000	150,000	1500,000	2000,000
AG-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AU-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
B-S	2000,000	+2000,000	+2000,000	1000,000	2000,000	2000,000	2000,000	2000,000	2000,000	+2000,000
BA-S	150,000	300,000	1000,000	700,000	700,000	150,000	1000,000	150,000	300,000	150,000
BE-S	150,000	30,000	30,000	70,000	50,000	100,000	30,000	150,000	30,000	70,000
BI-S	-10,000	NAO DET.	-10,000	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CO-S	NAO DET.	30,000	100,000	20,000	30,000	20,000	15,000	NAO DET.	15,000	30,000
CR-S	-10,000	150,000	200,000	50,000	100,000	50,000	30,000	10,000	70,000	70,000
CU-S	-5,000	INTERFER.	INTERFER.	5,000	15,000	5,000	-5,000	-5,000	15,000	-5,000
LA-S	NAO DET.	300,000	100,000	70,000	200,000	70,000	NAO DET.	20,000	150,000	150,000
MO-S	NAO DET.	15,000	20,000	-5,000	10,000	10,000	NAO DET.	NAO DET.	-5,000	NAC DET.
NB-S	50,000	70,000	150,000	30,000	50,000	20,000	20,000	-10,000	50,000	50,000
NI-S	NAO DET.	100,000	100,000	20,000	70,000	30,000	15,000	NAO DET.	15,000	30,000
PE-S	30,000	50,000	70,000	20,000	30,000	30,000	30,000	10,000	30,000	20,000
SE-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SC-S	NAO DET.	30,000	30,000	5,000	15,000	15,000	5,000	NAO DET.	INTERFER.	7,000
SN-S	500,000	+1000,000	+1000,000	+1000,000	+1000,000	500,000	+1000,000	15,000	+1000,000	1000,000
SR-S	NAO DET.	-100,000	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
V-S	30,000	150,000	150,000	50,000	100,000	70,000	50,000	20,000	100,000	70,000
W-S	NAO DET.	100,000	50,000	-50,000	-50,000	NAO DET.	-50,000	NAO DET.	-50,000	NAC DET.
Y-S	NAO DET.	100,000	70,000	20,000	70,000	20,000	15,000	NAO DET.	70,000	50,000
ZN-S	NAO DET.	300,000	300,000	300,000	200,000	-200,000	-200,000	NAO DET.	300,000	300,000
ZR-S	50,000	200,000	200,000	70,000	150,000	300,000	200,000	50,000	+1000,000	500,000
CU-AA										
PE-AA										
ZN-AA										
AG-AA										
CO-AA										
NI-AA										
BI-AA										
CE-AA										
TE-AA										
AU-AA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
MAGNET.	< 5%	20%-5%	20%-5%	< 5%	20%-5%	< 5%	< 5%	NAO DET.	< 5%	NAC DET.
HEMATITA	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.



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PROJETO - VANTAMENTO GEOQUIMICO DO PGS

ZENTRO DE CLSTO - 1533.300

CONCENTRADOS PROVENIENTES DE ROCHAS GRANITICAS

NUM. LTB.	JAD965	JAD966	JAD967	JAD968	JAD969	JAE970	JAD971	JAD976	JAD977	JAD981
NUM. CAMPO	CG0040	CG0042	CG0045	CG0047	CG0050	CG0052	CG0054	CG0066	CG0068	CG0085
C. CLSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300
PROCEENCIA	AD	AD	AC	AD	AD	AC	AD	AD	AD	AC
PASE CART.	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI
BASE CART.	3	3	3	3	3	3	2	3	3	3
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	09/75	09/75	09/75	09/75	09/75	09/75	09/75	09/75	09/75	09/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	316000	314970	314450	314180	314210	314000	313560	317080	318830	314700
UTM - LONG.	06581650	06582300	06582680	06582800	06582300	06581970	06581770	06581950	06585950	06579530
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	B	B	B	B	B	B	B	B	B	B
TIPO AMOST.	A	A	A	A	A	A	A	A	A	A
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REC.	S	S	S	S	S	S	S	S	S	S
ID. CECLOG.										
MAT. CCLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	C	C	D	D	D	D	D	D	D	E
TIPO VEGET.	E	E	E	E	E	E	E	E	E	F
SIT. TOPOG.	A	A	A	A	A	A	A	A	A	A
SIT. AMOST.	C	C	C	C	C	C	C	C	C	B
ALTITUDE										
PROF. AMOST.	0,30	0,40	0,30	0,30	0,30	0,30	0,20	0,30	0,40	0,30
FORMA IGNEA										
SIT. ESTAB.										
MATRIZ PREC.										
GRAU INTENS.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCCR.										
LARGURA RIO	2	3	5	3	7	4	3	2	6	4
PROFUND. RIO	0,3	0,4	0,3	0,3	0,7	0,4	0,5	0,5	0,6	0,3
VELOC. CORR.	3	3	2	2	2	2	2	1	2	2
NIVEL AGUA	3	3	2	2	2	2	2	2	2	2
AREA CRENAG.	1	1	1	1	1	1	1	1	1	1
TURB. AGUA	1	1	1	1	1	1	1	0	0	0
POS. CCLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	A	A	A	A	A	A	A	A	A	A
GRAU ARREC.	B	B	B	B	B	B	B	C	C	B
VOL. ORIGIN.	6	6	6	6	6	6	6	6	6	6
PESO CONC.	46	137	77	66	68	32	61	44	85	104
GRANULEMET.	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG
TEXT. SEDIM.	91	19	37	19	19	19	19	9	28	19
COR SEC./SL.										
HORIZ. SCLD										



SISTEMA DE ESTATÍSTICA DE AMOSTRAGEM

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FOLHA DE CONTROLE - PROGRAMA PRGCMCC7

\*\*\* OPCOES \*\*\*

ARQUIVO

C O O O O O C O O O

FS193410

AMOSTRAS LIDAS 11

AMOSTRAS IMPRESSAS 11

N. INICIAL DA PAGINA 1

N. FINAL DA PAGINA 8

N. DE AMOSTRA INICIAL

N. DE AMOSTRAS FINAL



SEDIMENTOS DE CORRENTE DE XISTOS DE CAMPINAS

NUM. LAB.	JAC921	JAC926	JAC927	JAC928	JAC929	JAC930	JAC943	JAC946	JAC947	JAC953
NUM. CAMPO	CG0064	CG0072	CG0073	CG0075	CG0077	CG0079	CG0094	CG0097	CG0098	CG0104
AMB. BIOTICO										

PARÂMETROS ANALITICOS DE CAMPO

EH										
PH										
METAL TOTAL										
COEF. LIVRE	FS402	FS451	FS452	FS461	FS471	FS481	FS591	FS611	FS621	FS212

PARÂMETROS ANALITICOS

FE-S %	3,000	5,000	5,000	5,000	5,000	5,000	3,000	3,000	5,000	1,500
MG-S %	0,500	0,500	0,500	0,500	0,500	0,500	0,500	0,200	0,300	0,100
CA-S %	0,300	0,150	0,200	0,150	0,150	0,150	1,000	0,200	0,150	0,100
TI-S %	1,000	1,000	1,000	1,000	1,000	+1,000	0,700	1,000	1,000	0,700
MN-S	500,000	700,000	500,000	500,000	1000,000	1500,000	700,000	700,000	500,000	200,000
AG-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AS-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AL-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
B-S	+2000,000	2000,000	1000,000	+2000,000	100,000	200,000	1000,000	70,000	100,000	700,000
BA-S	1000,000	700,000	1000,000	700,000	1500,000	1000,000	2000,000	2000,000	1000,000	500,000
BE-S	70,000	30,000	30,000	50,000	2,000	1,000	15,000	5,000	2,000	1,000
BI-S	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	NAC DET.
CC-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
CO-S	15,000	20,000	20,000	30,000	30,000	30,000	20,000	20,000	20,000	5,000
CR-S	70,000	70,000	100,000	150,000	100,000	100,000	100,000	50,000	100,000	15,000
CU-S	5,000	15,000	15,000	15,000	20,000	20,000	10,000	10,000	15,000	15,000
LA-S	20,000	20,000	50,000	50,000	50,000	50,000	50,000	100,000	50,000	NAC DET.
MO-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	7,000	NAC DET.	NAC DET.
NE-S	20,000	30,000	20,000	20,000	20,000	30,000	20,000	30,000	20,000	20,000
NI-S	15,000	20,000	20,000	20,000	50,000	50,000	20,000	15,000	50,000	7,000
PE-S	20,000	20,000	15,000	30,000	15,000	15,000	50,000	30,000	20,000	10,000
SB-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
SC-S	10,000	15,000	15,000	15,000	20,000	20,000	20,000	15,000	20,000	5,000
SN-S	100,000	NAC DET.	NAC DET.	20,000	NAC DET.	NAC DET.	50,000	10,000	NAC DET.	NAC DET.
SR-S	100,000	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	200,000	100,000	NAC DET.	NAC DET.
V-S	100,000	100,000	100,000	100,000	150,000	150,000	100,000	70,000	100,000	50,000
W-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
Y-S	20,000	50,000	50,000	50,000	50,000	50,000	50,000	70,000	50,000	20,000
ZN-S	NAC DET.	NAC DET.	-200,000	-200,000	200,000	200,000	NAC DET.	NAC DET.	NAC DET.	NAC DET.
ZR-S	500,000	1000,000	700,000	500,000	500,000	500,000	1000,000	+1000,000	700,000	1000,000
CU-AA	5,000	10,000	10,000	5,000	15,000	20,000	10,000	5,000	15,000	-5,000
PE-AA	10,000	10,000	10,000	5,000	15,000	15,000	20,000	15,000	20,000	5,000
ZN-AA	20,000	35,000	35,000	25,000	60,000	50,000	35,000	30,000	50,000	10,000
AG-AA	NAC DET.	NAC DET.	NAC DET.	INTERFER.	INTERFER.	INTERFER.	NAC DET.	INTERFER.	INTERFER.	NAC DET.
CO-AA										
NI-AA										
BI-AA										
CD-AA										
TE-AA										
AU-AA	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AS-CCL	-10,000	-10,000	-10,000	-10,000	10,000	-10,000	-10,000	-10,000	10,000	-10,000
SR-CGL	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	-1,000	-1,000	-1,000	-1,000

S E A G

PROJETO - VANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

SEDIMENTOS DE CORRENTE DE XISTOS DE CAMPINAS

NUM. LAB.	JAC921	JAD926	JAD927	JAD928	JAD929	JAE930	JAD943	JAD946	JAD947	JAD953
NUM. CAMPO	CG0064	CG0072	CG0073	CG0075	CG0077	CG0079	CG0094	CG0097	CG0098	CG0104
C. CLSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300
PROCECENCIA	AD	AD	AD	AD	AD	AD	AD	AD	AD	AD
BASE CART.	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI
BASE CART.	3	3	3	3	3	3	3	3	3	3
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	09/75	09/75	09/75	09/75	09/75	09/75	09/75	09/75	09/75	09/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	310550	315500	315500	315580	313630	313400	315550	315510	314380	309000
UTM - LONG.	06583250	06586100	06586100	06585320	06584730	06584410	06575230	06571480	06571230	06779750
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FORTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REC.	N	N	N	N	N	N	N	N	N	N
ID. (ECLCC)										
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOLICIDADE	D	B	B	B	B	B	B	B	B	B
TIPO VEGET.	E	D	D	D	C	C	D	C	D	E
SIT. TERC.	A	A	A	A	A	A	A	A	A	A
SIT. AMOST.	B	B	B	B	C	B	B	B	B	B
ALTITUDE										
PROF. AMOST.										
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PPEC.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCOR.										
LARGURA FIC	8	4	4	4	3	3	3	3	2	4
PROFUND. RIO	0,6	0,3	0,3	0,4	0,3	0,2	0,3	0,4	0,3	0,4
VELOC. CORR.	3	2	2	2	2	2	3	3	3	2
NIVEL AGLA	3	2	2	2	2	2	3	3	3	2
APFA CRENAG.	2	1	1	1	1	1	1	1	1	1
TURB. AGLA	1	0	0	0	0	0	2	1	0	0
PCS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGLA	C	A	A	A	A	A	C	F	F	A
GRAU AFREC.	B	B	B	C	B	B	B	B	B	B
VCL. ORIGIN.										
PESO CCNC.										
GRANULOMET.										
TEXT. SEDIM.	91	91	91	82	91	91	91	91	433	82
COR SEC./SL.										
HORIZ. SCLC										
TIPO SCLC										





SEDIMENTOS DE CORRENTE DE XISTOS DE CAMPINAS

NUM. LAB.	JAC900	JAC901	JAC902	JAC903	JAC904	JAC905	JAC917	JAC918	JAC919	JAC920
NUM. CAMPO	CG0028	CG0030	CG0032	CG0033	CG0034	CG0036	CG0056	CG0058	CG0060	CG0062
AMB. EICITICO										

PARÂMETROS ANALITICOS DE CAMPO

EH						6,5						6,5
PH												
METAL TOTAL												
COCIF. LIVRE	FS211	FS221	FS241	FS231	FS251	FS261	FS371	FS381	FS391	FS401		

PARÂMETROS ANALITICOS

FF-S %	2,000	1,500	5,000	7,000	5,000	5,000	3,000	3,000	5,000	3,000
MG-S %	0,200	0,200	0,700	1,000	0,500	1,000	0,500	0,500	0,700	0,700
CA-S %	0,050	0,100	0,150	0,150	0,150	0,100	0,500	0,300	0,500	0,300
TI-S %	0,700	1,000	+1,000	+1,000	1,000	+1,000	0,700	0,700	1,000	1,000
MN-S	300,000	300,000	500,000	700,000	700,000	300,000	700,000	500,000	500,000	500,000
AG-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AS-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AL-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
B-S	500,000	1500,000	+2000,000	+2000,000	2000,000	+2000,000	1000,000	2000,000	2000,000	2000,000
BA-S	500,000	500,000	700,000	1500,000	1000,000	500,000	1500,000	1500,000	1500,000	1000,000
BE-S	1,000	5,000	50,000	50,000	70,000	50,000	100,000	70,000	70,000	50,000
BI-S	-10,000	-10,000	-10,000	-10,000	NAC DET.	NAC DET.	-10,000	-10,000	-10,000	-10,000
CC-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
CD-S	10,000	10,000	20,000	20,000	20,000	20,000	15,000	15,000	20,000	15,000
CR-S	50,000	50,000	150,000	150,000	70,000	100,000	50,000	50,000	100,000	70,000
CU-S	10,000	10,000	15,000	50,000	15,000	15,000	5,000	5,000	10,000	5,000
LA-S	20,000	20,000	50,000	70,000	NAC DET.	NAC DET.	50,000	150,000	20,000	20,000
MO-S	NAC DET.	NAC DET.	5,000	5,000	5,000	5,000	NAC DET.	NAC DET.	NAC DET.	NAC DET.
NE-S	20,000	20,000	30,000	30,000	30,000	30,000	20,000	20,000	20,000	30,000
NI-S	10,000	10,000	30,000	30,000	20,000	20,000	15,000	15,000	20,000	15,000
PE-S	10,000	10,000	20,000	50,000	15,000	15,000	70,000	50,000	50,000	30,000
SE-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
SC-S	5,000	5,000	15,000	20,000	10,000	10,000	10,000	10,000	15,000	10,000
SN-S	NAC DET.	300,000	500,000	300,000	100,000	50,000	300,000	70,000	30,000	500,000
SR-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	100,000	100,000	100,000	100,000
V-S	70,000	50,000	100,000	100,000	100,000	100,000	70,000	70,000	100,000	100,000
W-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
Y-S	20,000	20,000	30,000	50,000	20,000	20,000	20,000	30,000	50,000	20,000
ZN-S	NAC DET.	NAC DET.	200,000	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
ZR-S	300,000	1000,000	500,000	500,000	300,000	500,000	500,000	300,000	500,000	500,000
CU-AA	-5,000	5,000	5,000	5,000	10,000	5,000	5,000	5,000	5,000	5,000
PE-AA	5,000	5,000	10,000	15,000	10,000	10,000	15,000	10,000	10,000	10,000
ZN-AA	15,000	10,000	20,000	30,000	30,000	15,000	30,000	25,000	30,000	20,000
AG-AA	NAC DET.	NAC DET.	NAC DET.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	NAC DET.	NAC DET.	NAC DET.
CO-AA										
NI-AA										
BI-AA										
CD-AA										
TE-AA										
AU-AA	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AS-CCL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SB-CCL	-1,000	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.

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PROJET LEVANTAMENTO GEOQUIMICO DO PGS

CENTRO DE CUSTO - 1533.300

SECIMENTOS DE CORRENTE DE XISTOS DE CAMPINAS

NUM. LAB.	JAD900	JAD901	JAD902	JAD903	JAD904	JAD905	JAD917	JAD918	JAD919	JAD920
NUM. CAMPO	CG0028	CG0030	CG0032	CG0033	CG0034	CG0036	CG0056	CG0058	CG0060	CG0062
C. CUSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CUSTO	300	300	300	300	300	200	300	300	300	300
PRECEDENCIA	AD	AD	AD	AD	AD	AC	AD	AC	AD	AC
BASE CART.	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI
BASE CART.	3	3	3	3	3	3	3	3	3	3
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	09/75	09/75	09/75	09/75	09/75	09/75	09/75	09/75	09/75	09/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	309000	310640	311240	310940	314620	315170	312180	312180	311380	310550
UTM - LONG.	06779750	06580880	06581400	06582030	06583340	06583250	06581380	06581600	06582000	06583250
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	N	N	N	N	N	N	N	N	N	N
IC. CELEC.										
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	B	B	B	B	B	C	C	D	D	D
TIPO VEGET.	A	E	E	E	E	E	E	E	E	E
SIT. TOPOG.	A	A	A	A	A	A	A	A	A	A
SIT. AMOST.	B	B	B	B	B	C	B	C	A	B
ALTITUDE										
PROF. AMOST.										
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PROF.										
GRAU INTENS.										
TIPO ALTER.										
TIPO MINER.										
DEP. COCCR.										
LARGURA FIC	4	3	6	6	5	3	5	7	7	8
PROFUND. RIO	0,4	0,4	0,4	0,4	0,6	0,6	0,3	0,5	0,7	0,6
VELOC. CORR.	2	2	2	2	3	3	2	3	3	3
NIVEL AGLA	2	2	2	2	3	3	2	3	3	3
AREA DRENAG.	1	1	1	1	1	1	1	2	2	2
TURB. AGLA	C	0	2	0	3	3	2	1	1	1
PCS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGLA	A	A	C	C	C	C	D	C	C	C
GRAU ABREC.	B	C	B	B	B	B	B	B	B	B
VCL. OFICIN.										
PESO CONC.										
GRANULOMET.										
TEXT. SECIM.	91	91	91	82	91	82	82	622	82	91
COR SEC./SL.										
HORIZ. SCLC										





SEDIMENTOS DE CORRENTE DE XISTOS DE CAMPINAS

NUM. LAB.	JAC890A	JAC891	JAC892	JAC893	JAC894	JAC895	JAC896	JAC897	JAC898	JAC899
NUM. CAMPO	CG0014	CG0016	CG0017	CG0018	CG0019	CG0021	CG0022	CG0023	CG0024	CG0026
AMB. ELOTICO										

PARÂMETROS ANALITICOS DE CAMPO

EH										
PH							6,5			
METAL TOTAL										
COEF. LIVRE	FS101	FS111	FS121	FS131	FS141	FS161	FS171	FS181	FS191	FS201

PARÂMETROS ANALITICOS

FE-S %		5,000	10,000	5,000	5,000	5,000	3,000	3,000	5,000	3,000
MG-S %		0,500	1,000	0,500	0,700	0,500	0,200	0,300	0,500	0,200
CA-S %		0,100	0,150	0,050	0,100	0,100	0,050	0,050	0,050	0,100
TI-S %		+1,000	+1,000	1,000	1,000	1,000	1,000	1,000	+1,000	1,000
MN-S		700,000	500,000	500,000	1500,000	1000,000	500,000	500,000	500,000	500,000
AG-S		NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
AS-S		NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.
AL-S		NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
B-S		2000,000	+2000,000	+2000,000	+2000,000	+2000,000	2000,000	2000,000	2000,000	1000,000
BA-S		1000,000	1500,000	1000,000	1000,000	1000,000	700,000	700,000	700,000	700,000
BE-S		30,000	30,000	5,000	5,000	3,000	3,000	2,000	2,000	2,000
BT-S		-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
CD-S		NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CO-S		20,000	30,000	20,000	30,000	20,000	20,000	20,000	20,000	15,000
CR-S		100,000	150,000	100,000	150,000	150,000	100,000	100,000	100,000	70,000
CU-S		15,000	20,000	15,000	20,000	20,000	70,000	70,000	50,000	15,000
LA-S		50,000	100,000	50,000	70,000	70,000	50,000	50,000	50,000	50,000
MO-S		5,000	5,000	5,000	5,000	5,000	NAO DET.	5,000	5,000	NAC DET.
NB-S		50,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
NI-S		20,000	50,000	50,000	50,000	50,000	20,000	30,000	30,000	20,000
PE-S		20,000	50,000	10,000	20,000	20,000	20,000	20,000	20,000	15,000
SE-S		NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SC-S		15,000	20,000	10,000	20,000	20,000	10,000	10,000	15,000	10,000
SN-S		500,000	1000,000	+1000,000	20,000	50,000	50,000	1000,000	30,000	NAC DET.
SR-S		NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
V-S		100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
W-S		NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
Y-S		50,000	150,000	50,000	50,000	50,000	30,000	30,000	50,000	30,000
ZN-S		NAO DET.	200,000	NAC DET.	200,000	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
ZR-S		1000,000	1000,000	1000,000	500,000	500,000	500,000	200,000	700,000	700,000
CU-AA	5,000	10,000	5,000	10,000	15,000	10,000	10,000	10,000	5,000	5,000
PE-AA	10,000	15,000	15,000	10,000	10,000	10,000	10,000	5,000	5,000	5,000
ZN-AA	20,000	20,000	25,000	30,000	55,000	40,000	35,000	35,000	25,000	20,000
AG-AA	INTERFER.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	NAC DET.
CO-AA										
NI-AA										
BI-AA										
CC-AA										
TE-AA										
AU-AA		NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.
AS-CCL	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SR-COL	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	-1,000	NAO DET.	NAC DET.	-1,000

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PROJETO AVANTAMENTO GECQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

SEDIMENTOS DE CORRENTE DE XISTOS DE CAMPINAS

NUM. LAB.	JAC890A	JAC891	JAC892	JAC893	JAC894	JAC895	JAC896	JAC897	JAC898	JAC899
NUM. CAMPO	CG0014	CG0016	CG0017	CG0018	CG0019	CG0021	CG0022	CG0023	CG0024	CG0026
C. CLSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CLSTO	300	300	300	300	300	300	300	300	300	300
PROCEDENCIA	AD	AD	AC	AD	AD	AC	AD	AC	AD	AC
BASE CART.	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI
BASE CART.	3	3	3	3	3	3	3	3	3	3
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	09/75	09/75	09/75	09/75	09/75	09/75	09/75	09/75	09/75	09/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	311500	311550	311350	311030	310900	310680	310510	310190	310000	310550
UTM - LONG.	06580650	06580880	06581000	06579520	06579390	06579500	06579330	06579680	06580330	06580500
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARÂMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	N	N	N	N	N	N	N	N	N	N
ID. GEOLÓG.										
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	B	B	B	B	B	B	B	B	B	B
TIPO VEGET.	E	E	E	E	E	E	E	E	E	E
SIT. TOPOG.	A	A	A	A	A	A	A	A	A	A
SIT. AMOST.	B	B	B	B	B	B	C	C	B	B
ALTITUDE										
PROF. AMOST.										
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. COCOR.										
LARGURA RIO	3	1	3	1	1	3	2	4	3	1
PROFUND. RIO	0,4	0,1	0,4	0,2	0,2	0,2	0,2	0,5	0,4	0,2
VELOC. CORR.	3	2	3	2	2	2	2	2	2	2
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA CRENAG.	1	1	1	1	1	1	1	1	1	1
TURB. AGUA	0	0	0	0	0	0	0	0	0	0
POS. COLETA	C	C	C	C	C	C	C	C	C	C
COR. AGUA	A	C	C	A	A	A	A	A	A	A
GRAU ARREF.	B	B	B	B	B	B	B	B	B	C
VCL. CFICIN.										
PESO CONC.										
GRANULOMET.										
TEXT. SEDIM.	82	82	82	82	91	91	91	91	91	82
COR. SEC./SL.										
HORIZ. SCLC										
TIRC. SCLC										





SEDIMENTOS DE CORRENTE DE XISTOS DE CAMPINAS

NUM. LAB. NUM. CAMPO AMB. PICTICO	JAD881 CG0001	JADEE2 CG0004	JADEE3 CG0005	JAD884 CG0007	JAD885 CG0008	JAC886 CG0010	JAC887 CG0011	JADEE6 CG0012	JAC889 CG0013	JAC890 CG0014
PARAMETROS ANALITICOS DE CAMPO										
FH										
PH	6,5		6,5		6,5					
METAL TOTAL										
CODIF. LIVRE	FS011	FS021	FS031	FS041	FS051	FSC61	FS071	FSC81	FS091	FS101
PARAMETROS ANALITICOS										
FE-S %	5,000	10,000	10,000	7,000	5,000	5,000	5,000	5,000	5,000	5,000
MG-S %	0,700	1,000	1,500	1,000	0,700	0,700	0,700	0,700	0,700	0,700
CA-S %	0,150	0,150	0,150	0,150	0,100	0,150	0,100	0,100	0,200	0,150
TI-S %	1,000	1,000	1,000	1,000	1,000	+1,000	+1,000	+1,000	1,000	+1,000
MN-S	500,000	1000,000	1000,000	1000,000	500,000	500,000	500,000	300,000	500,000	500,000
AG-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AS-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AL-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
B-S	+2000,000	+2000,000	+2000,000	+2000,000	1000,000	+2000,000	+2000,000	+2000,000	2000,000	+2000,000
BA-S	1500,000	1500,000	1500,000	1000,000	2000,000	500,000	1000,000	700,000	1500,000	1000,000
BE-S	30,000	100,000	50,000	50,000	10,000	150,000	50,000	30,000	30,000	30,000
BI-S	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	10,000
CC-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
CO-S	20,000	50,000	50,000	30,000	20,000	20,000	20,000	20,000	20,000	20,000
CR-S	200,000	200,000	200,000	150,000	50,000	100,000	100,000	100,000	50,000	100,000
CU-S	50,000	70,000	70,000	20,000	15,000	15,000	50,000	15,000	20,000	20,000
LA-S	70,000	50,000	100,000	100,000	70,000	70,000	70,000	70,000	50,000	50,000
MO-S	NAC DET.	5,000	5,000	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	7,000	5,000
NE-S	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
NI-S	50,000	70,000	70,000	50,000	15,000	50,000	50,000	50,000	20,000	50,000
PE-S	50,000	70,000	70,000	20,000	100,000	20,000	30,000	20,000	50,000	50,000
SE-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
SC-S	20,000	30,000	30,000	20,000	10,000	15,000	20,000	20,000	10,000	15,000
SN-S	+1000,000	1000,000	150,000	200,000	200,000	700,000	300,000	50,000	+1000,000	+1000,000
SR-S	100,000	NAC DET.	100,000	100,000	NAC DET.	NAC DET.	NAC DET.	NAC DET.	100,000	NAC DET.
V-S	200,000	200,000	200,000	200,000	100,000	100,000	100,000	100,000	100,000	100,000
W-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
Y-S	50,000	50,000	70,000	70,000	20,000	50,000	70,000	100,000	30,000	70,000
ZN-S	200,000	NAC DET.	200,000	-200,000	NAC DET.	200,000	-200,000	NAC DET.	NAC DET.	NAC DET.
ZR-S	700,000	500,000	500,000	500,000	300,000	300,000	500,000	1000,000	1000,000	1000,000
CU-AA	15,000	15,000	15,000	15,000	5,000	5,000	5,000	5,000	5,000	5,000
PE-AA	15,000	20,000	15,000	15,000	25,000	10,000	10,000	10,000	20,000	10,000
ZN-AA	40,000	40,000	35,000	35,000	45,000	20,000	25,000	20,000	30,000	20,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	NAC DET.	INTERFER.	NAC DET.	NAC DET.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CD-AA										
TE-AA										
AU-AA	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AS-CC	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SB-CC	NAC DET.	NAC DET.	NAC DET.	NAC DET.	-1,000	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.



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PROJETO LEVANTAMENTO GEOQUIMICO DO RGS

CENTRO DE CUSTO - 1533.300

SEDIMENTOS DE CORRENTE DE XISTOS DE CAMPINAS

NUM. LAB.	JAC881	JAC882	JAC883	JAC884	JAC885	JAC886	JAC887	JAC888	JAC889	JAC890
NUM. CAMPO	CG0001	CG0004	CG0005	CG0007	CG0008	CG0010	CG0011	CG0012	CG0013	CG0014
C. CUSTO	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
S. CUSTO	300	300	300	300	300	300	300	300	300	300
PRECISEZINHA	AD	AD	AD	AD	AD	AD	AD	AD	AD	AD
BASE CART.	SH.22-Y-	SH.22-Y-	SH.22-Y-	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI	SH22YAVI
BASE CART.	A-VI-3	A-VI-3	A-VI-3	3	3	3	3	3	3	3
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	09/75	09/75	09/75	09/75	09/75	09/75	09/75	09/75	09/75	09/75
LATITUDE										
LONGITUDE										
ABSCISSA - X	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ORDENADA - Y	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
UTM - LAT.	311970	311900	311880	311880	312050	312050	311760	311660	311700	311500
UTM - LONG.	06579150	06579300	06579430	06579600	06579750	06579620	06579800	06580200	06580360	06580650
MER. CENT.	51	51	51	51	51	51	51	51	51	51

PARÂMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	A	B	B	B	B	B	A	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REC.	N	N	N	N	N	N	N	N	N	N
IC. CECLOG.										
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	B	B	B	B	B	B	B	B	B	B
TIPO VEGET.	E	E	E	E	E	E	E	E	E	E
SIT. TOPOG.	A	A	A	A	A	A	A	A	A	A
SIT. AMOST.	B	B	B	B	B	C	B	B	B	B
ALTITUDE										
PREC. AMOST.										
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREG.										
GRAU INTENS.										
TIPO ALTER.										
TIPO MINER.										
DEP. COCCO.										
LARGURA RIO	2	2	2	3	1	1	3	3	1	3
PROFUND. RIO	0,1	0,1	0,1	0,2	0,1	0,1	0,2	0,2	0,1	0,4
VELOC. CORR.	2	2	2	2	2	2	2	2	2	3
NIVEL AGLA	2	2	2	2	2	2	2	2	2	2
AREA DEENAG.	1	1	1	1	1	1	1	1	1	1
TURB. AGLA	0	0	0	0	0	0	0	0	0	0
PCS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGLA	A	A	A	A	A	A	A	A	A	A
GRAU ARREC.	B	B	B	B	B	B	B	B	B	B
VCL. CRIGIN.										
PESO COCCO.										
GRANULOMET.										
TEXT. SEDIM.	2611	91	91	622	82	82	91	91	91	82
COR SEC./SL.										
HORIZ. SCLO										
TIPO SCLO										

FOLHA DE CONTROLE - PROGRAMA PRCMC07

\*\*\* OPCOES \*\*\*

ARQUIV

C O O C C O C C O O

FS193140

AMOSTRAS LIDAS 40

AMOSTRAS IMPRESSAS 40

N. INICIAL DA PAGINA 1

N. FINAL DA PAGINA 12

N. DE AMOSTRA INICIAL

N. DE AMOSTRAS FINAL