PRELIMINARY REPORT ON GRAPHITE MINERALIZATION AT WELANRUPPA POTHUHENA AREA IN DODANGASLANDA

(KURUNEGALA DISTRICT)

BY

A.S JAYAKODY

(GEOLOGIST)

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GEOLOGICAL SURVEY & MINES BUREAU

NO: 569, EPITAMULLA ROAD

PITAKOTTE

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PRELIMINARY REPORT ON GRAPHITE MINERALIZATION AT WELANRUPPA POTHUHENA AREA IN DODANGASLANDA

(KURUNEGALA DISTRICT)

1. Introduction

As per the request made by the CEO RS Mines Mr Ranjith Wijekoon, Geological Survey and Mines Bureau (GSMB) has conducted a drilling investigation for the development of graphite mine at Dodangaslanda (Figure1).

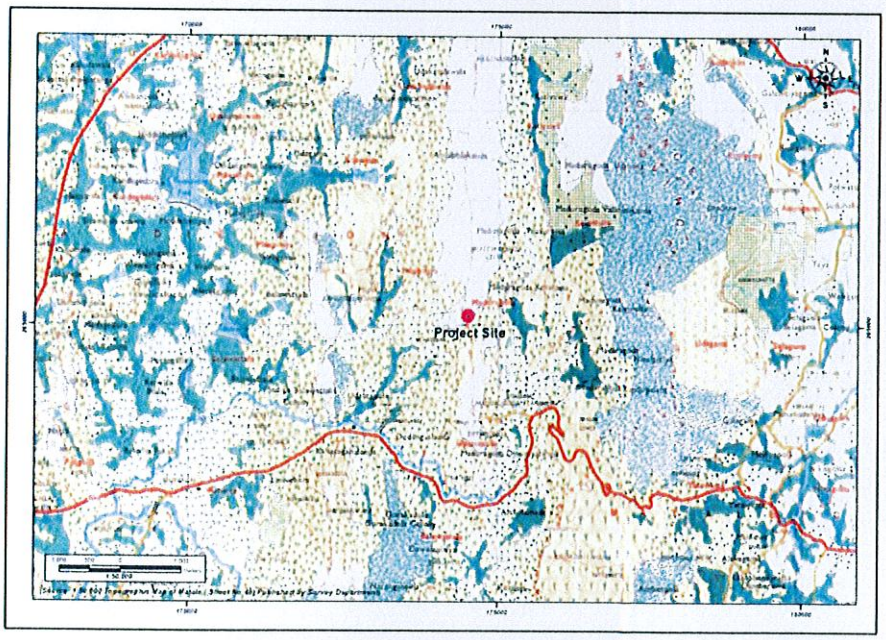

Figure 1 - Location map of the survey area in 1:50,000 topographic sheet

Under this drilling investigation, initially proposed three drill holes were put down to a depth of 200m each. Co-ordinates of these three drill holes locations are given in Table- 1 and drill hole location map is given in Figure- 2. All three drill holes situated along the abandoned tunnel trace at Pothuhena, Welanruppa in Dodangaslanda area.

Table No: 01- Co-ordinates of Drill hole Locations

Drill Hole No	Co-ordinates	
	East	North
DH1	174501	265218
DH2	174500	265224
DH3	174535	265109

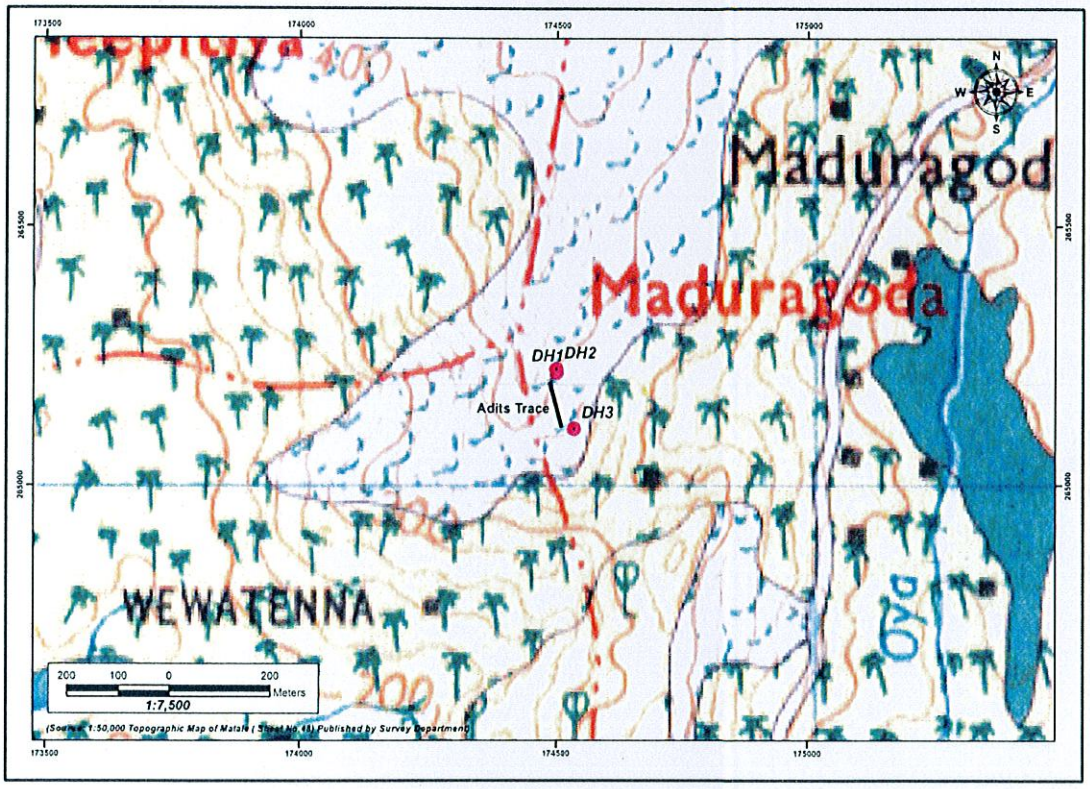

Figure 2- Drill hole Locations and adit

2. Drilling Work

The Drilling crew of the GSMB comprises of an experienced Driller (Mr. Chandima Paliyadeniya- Technical Officer) and skilled drilling assistants.

The total core length of 416.6 m (mainly NQ size - 52 mm diameter) has been drilled under this project. Of this total drilling depth, initial 15m depth was gone through the overburden soil cover while the rest was in moderately weathered and fresh rock formations. Details of the overburden drilling, rock drilling, bearing, inclination and final depths of drill holes are given in log sheets in Annex- 1 and Table - 2.

Table 2. Summary Bore hole Description

DH No	Overburden Depth(m)	Rock drilling depth(m)	Bearing	Inclination	Final depth of drill holes (m)
DH 1	5	61.5	330^0	60^0	66.6
DH 2	3	147	280^0	60^0	150
DH 3	7	193	317^0	60^0	200

DH 1 was contacted with few graphite veins which was mineralized along the drill hole direction. Therefore DH1 was terminated at 66.6m under the instruction of Mr Ranjith Wijekoon. The DH 2 was carried out at the same location in 280^0 direction with 60^0 inclinations. Total drilling depth of the of the DH 2 was 150m. Within this 150m depth, very thin graphite veins were found between 29m and 30m depth and also at 44.9m depth. Details of the identified veins are given in the Table-3. The DH2 was terminated at 150m depth due to the request of CEO, RS mines.

The DH 3 was put down in 317^0 direction with 60^0 inclination. Three graphite mineralization could be observed in DH 3 drill hole and are as follows (Table-3)

1. 48m depth to 49m depth
2. 86m depth to 93m depth
3. 107m depth to 114m depth

Graphite mineralization observed between 107m and 114m depth in DH 3 is located mainly in high possibility zone. It contains somewhat promising economically viable graphite mineralization than the rest of the survey area. According to the drill hole logs (Annex-I) and sections of the boreholes (Annex -II), identified crosscut graphite veins could be summarized as follows.

Table -3 Description of the graphite veins in drill holes

Drill Hole No	Vein depth (m)	Vein Thickness (cm)	Graphite vein type	Comment
DH 1	49.3	1cm	mixed with pyrite	The hole was along the veins
	49.5	13cm	graphite	
DH2	29	0.5	graphite	
	30	0.5	graphite	
	49	1	graphite	
DH3	48.28	2	graphite	
	48.73	1	graphite	
	48.79	13	graphite	
	55.15	1	graphite	
	86.64	14	graphite	
	87.05	0.5	graphite	
	93.35	1	graphite	
	107.12	22	graphite	
	109.2	0.5	graphite veinlet	
	109.77	16	graphite vein	
	110	60	graphite vein	
	110.6	10	graphite vein	
	111	3	graphite vein	
	112	10	graphite vein	
	114	2	vein let	

3. Summary of Findings

1. According to the drilling data of DH 1, DH 2 and DH3, considerable number of graphite veins (having thicknesses varying from 0.5-60 cm) can be observed in DH3 drill hole between 107m and 114m depth. These veins could be considered as economically viable graphite veins.

2. The three dimensional module (Figure-3) from cross cut graphite veins could be interpreted and extrapolate as follows.

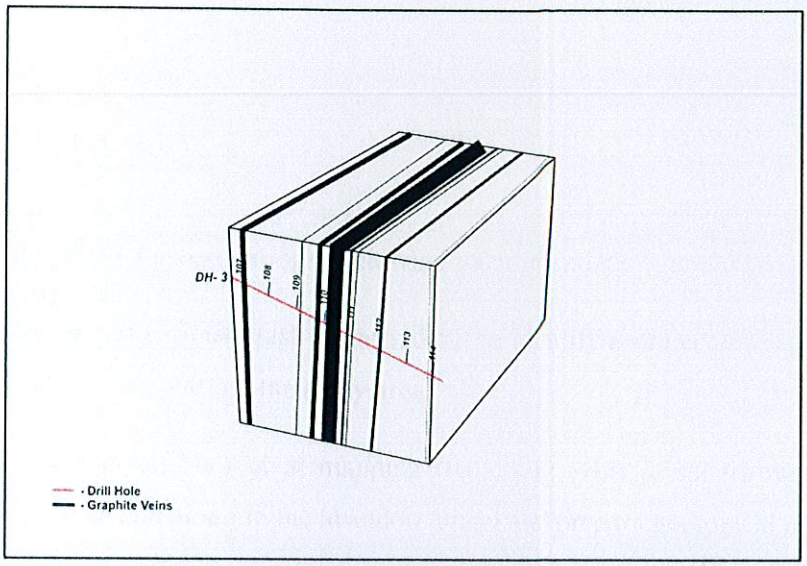

Figure 3- Cross cut graphite veins

3. By observing graphite veins at Dodangaslanda and Kahatagaha mine and considering the geology of the survey area (Figure-4), the graphite vein could be located in dilatational jugs structures. Therefore very thick graphite portions could be found along the veins. Three bore hole data were not adequate to identify this type of formation.

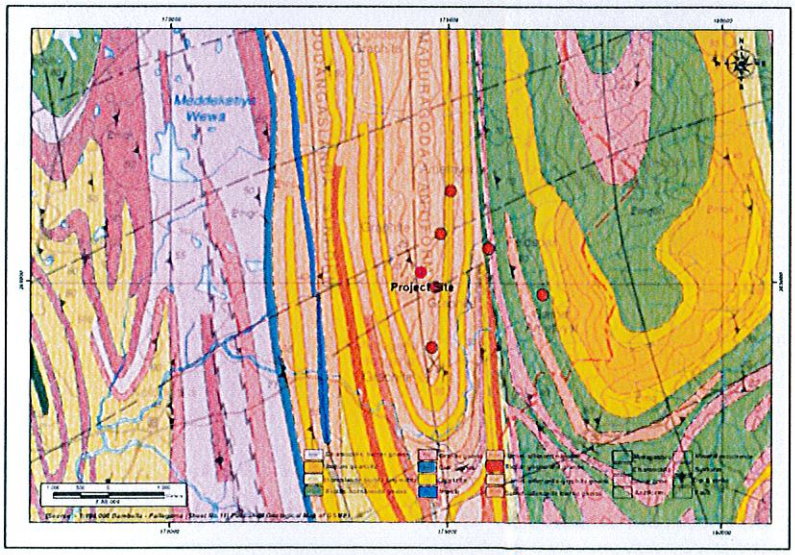

Figure 4 - Geology of the survey area

4. Nearly about 200m distance away from the abandoned tunnel trace, more promising areas for graphite mineralization could be recognized.

4. Recommendations

Based on the drilling investigations, following recommendations could be made.

1. Further investigations must be carried out to identify more economically viable graphite veins covering the study area.
2. Carry out detail geological mapping (including veins joints fractures) in the surface area and along in the abandon tunnel and prepare geological module.
3. Using the 3D geological module, it could be possible to locate further drill holes in order to identify economically viable additional graphite vein systems.

5. Acknowledgments

I would like to thank CEO RS Mines Mr Ranjith Wijekoon for awarding this project to the GSMB.

Mr. H.S Lasantha (geologist) is thanked for giving his assistance for the investigations and preparation of Bore Hole Log Sheets.

Mr. Chandima Paliyadeniya (Technical Officer of GSMB) gave an invaluable service during the entire drilling work. I would also like to thank Mr. Priyanga for the preparation of cross sections and Ms. A.M Dhananjaya helped during the report compilation within very short period of time.

Annex-I

Bore Hole Log Sheets

PROJECT :- DODANGASLANDE GEAPHITE EXPLORATION PROJECT.

GSMB
GEOLOGICAL SURVEY AND MINES BUREAU
Telephone +94-11-2868269 / 2865295
Fax +94-11-2868273
E-mail : info@gsmb.gov.lk

DRILLING AND BOREHOLE DATA

LOCATION	:- Dodangaslande	BORE HOLE No.	:- DH01	FINAL DEPTH	:- 66.60 m
DRILLING METHOD	:- Rotary	X-COORDINATE	:- 174501	CASING DEPTH	:- 8.00 m
MACHING TYPE	:- XY-42	Y-COORDINATE	:- 265218	INCLINATION	:- -60°
GEOLOGIST	:- H.S.Lasantha	ELEVATION (COLLAR)	:- 388.60 m	BEARING	:- 330°
TECHNICAL OFFICER	:- Palihawadana/ Chamara	CORE BARREL, BIT	:- NQ		

LEGEND FOR GRAPHIC LOG

- weathered rock overburden
- Gt-Bt Gneiss
- Pegmatite
- Vein
- Vn

REF. DEPTH (m)	ELEVATION (m)	DEPTH (m)	GENERAL DESCRIPTIONAND REMARKS	GRAPHICAL LOG	GRAPHITE MINERALIZATION: MINERALIZATION	DEPTH (m): FROM TOP	DEPTH (m): TO BOTTOM	VEIN TYPE	FILLING MATERIALS	THICKNESS (m)	COMMENT	QUALITY OF SOIL OR ROCK: CORE RECOVERY %	ROD %	WEATHERING	COMPACTION
			Rock type, colour, grain size, texture and structure (compaction, solussion cavities, cavity fillings etc.)												
0			weathered rock overburden									0	0		
		7.05										100	94		
10			Quartz rich slightly weathered Gt-Bt Gneiss.Gneissic texture occationally changed into pegmatitic texture.									100	100		
		14.98										100	100		
15			slightly weathered Gt-Bt Gneiss. Comparatively mafic mineral content incresed.Gneissic texture occationally changed into pegmatitic and granitic texture.									100	99		
20		21.10										100	100		
			slightly weathered Gt-Bt Gneiss. Well defined gneissic texture observed.Gneissic texture occationally changed into pegmatitic and granitic texture.small amount of pyrite obsed as veinlets.									100	100		
25		29.30										100	100		
30			at 29.30 m depth graphite vein mixed with pyrite observed.core went along the vein and wall to wall vein thickness is 2cm.			29.30	30.24	Vein	Grp:Py	0.020	Graphite vein	100	100		
		32.70										100	100		
		34.00	pegmatitic layer									100	100		
35		36.80	slightly weathered Gt-Bt Gneiss. small amount of disseminated pyrite observed.									100	100		
			pegmatitic layer with small amount of disseminated graphite observed.									100	100		
40		42.50										100	100		
			slightly weathered Gt-Bt Gneiss. Comparatively mafic mineral content incresed.Gneissic texture occationally changed into pegmatitic and granitic texture.small amount of disseminated graphite and pyrite observed.									100	100		
45		49.30										68	100		
		49.50	at 49.30 m depth graphite veinlet (1mm thickness) observed.			49.30	49.30	Vn	Grp:Py	0.001	Graphite veinlet				
50		50.30	at 49.50 m depth graphite vein observed.core went along the vein and wall to wall vein thickness is 13cm.			49.50	50.30	Vein	Grp:Py	0.130	Graphite vein				
												100	100		
55						55.68	55.68	Vn	Grp:Fe	0.001	Graphite veinlet	100	100		
			slightly weathered Gt-Bt Gneiss. Comparatively mafic mineral content incresed.Gneissic texture occationally changed into pegmatitic and granitic texture.small amount of disseminated graphite and pyrite observed. Hole was terminated at 66.60 m depth.									100	100		
60															

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GSMB
GEOLOGICAL SYRVEY AND MINES BUREAU
Telephone +94-11-2565289 / 2586290
Fax +94-11-2502273
E-mail : info@gsmb.gov.lk

REF. DEPTH (m)	ELEVATION (m)	DEPTH (m)	GENERAL DESCRIPTIONAND REMARKS	GRAPHICAL LOG	GRAPHITE MINERALIZATION								QUALITY OF SOIL OR ROCK			WEATHERING	COMPACTION
					MINERALIZATION	DEPTH (m) FROM TOP	DEPTH (m) TO BOTTOM	VEIN TYPE	FILLING MATERIALS	THICKNESS (m)	COMMENT	CORE RECOVERY %	CORE RECOVERY %	ROD %			
			Rock type, colour, grain size, texture and structure (compaction, sclussion cavities, cavity filings etc.)														
65		66.60				62.45	62.47	Vn	Grp	0.010	Graphite veinlet	100	100	100			

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DRILLING AND BOREHOLE DATA

LOCATION	:- Dodangaslande	BORE HOLE No.	:- DH02	FINAL DEPTH	:- 150.00 m
DRILLING METHOD	:- Rotary	X-COORDINATE	:- 174500	CASING DEPTH	:- 5.00 m
MACHING TYPE	:- XY-42	Y-COORDINATE	:- 255224	INCLINATION	:- -60°
GEOLOGIST	:- H.S.Lasantha	ELEVATION (COLLAR)	:- 388.00 m	BEARING	:- 280°
TECHNICAL OFFICER	:- Palihawadana/ Chamara	CORE BARREL, BIT	:- NQ		

LEGEND FOR GRAPHIC LOG

weathered rock overburden
Gt-Bt Gneiss
Vein
Vn

REF. DEPTH (m)	ELEVATION (m)	DEPTH (m)	GENERAL DESCRIPTIONAND REMARKS	GRAPHICAL LOG	GRAPHITE MINERALIZATION: MINERALIZATION	DEPTH (m): FROM TOP	DEPTH (m): TO BOTTOM	VEIN TYPE	FILLING MATERIALS	THICKNESS (m)	COMMENT	QUALITY OF SOIL OR ROCK: CORE RECOVERY %	CORE RECOVERY %	QUALITY OF SOIL OR ROCK: RQD %	RQD %	WEATHERING	COMPACTION
			Rock type, colour, grain size, texture and structure (compaction, solussion cavities, cavity fillings etc.)														
0			weathered rock overburden									0		0			
		4.20										100		87			
5												100		93			
												100		96			
10			Slightly weathered Gt-Bt Gneiss.Gneissic texture occationally changed into pegmatitic texture.									100		100			
												100		95			
15												100		100			
												100		100			
20		20.80										100		99			
			slightly weathered Gt-Bt Gneiss. small amount of disseminated pyrite observed.									100		100			
		24.30										100		94			
25			Slightly weathered Gt-Bt Gneiss.Gneissic texture occationally changed into pegmatitic texture.			29.00	29.00	Vn	Grp/Fe	0.005	Graphite veinlet						
		30.20				30.00	30.00	Vn	Grp	0.005	Graphite veinlet	57		100			
30												100		95			
			slightly weathered Gt-Bt Gneiss. Comparatively mafic mineral content incresed.Gneissic texture less dominant.									100		99			
35		39.20										100		87			
			slightly weathered Gt-Bt Gneiss. small amount of disseminated pyrite observed.									100		85			
40						44.99	45.23	Vein	grp /Fe/Py	0.010	Graphite vein						
		43.20										100		94			
45			slightly weathered Gt-Bt Gneiss. Comparatively mafic mineral content incresed.Gneissic texture less dominant.									100		97			
												100		86			
50												100		93			
		57.20										100		88			
55			slightly weathered Gt-Bt Gneiss. Comparatively mafic mineral content incresed.Gneissic texture dominant.														
60																	

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GSMB
GEOLOGICAL SYRVEY AND MINES BUREAU
Telephone +94-11-2686289 / 2686290
Fax +94-11-2686273
E-mail : info@gsmb.gov.lk

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					MINERALIZATION	DEPTH (m) FROM TOP	DEPTH (m) TO BOTTOM	VEIN TYPE	FILLING MATERIALS	THICKNESS (m)	COMMENT	CORE RECOVERY %	RQD %			
			Rock type, colour, grain size, texture and structure (compaction, sclussion cavities, cavity fillings etc.)													
		63.20										100	97			
65			Quartz rich slightly weathered Gt-Bt Gneiss.Gneissic texture less dominant.small amount of dissaminated pyrite observed.									100	100			
												100	98			
70												100	98			
												100	97			
75												100	95			
												100	100			
80												100	97			
												100	100			
85												100	93			
												100	100			
90		92.20										100	100			
			slightly weathered Gt-Bt Gneiss. Comparatively mafic mineral content incresed.Gneissic texture dominant.									100	98			
95		99.20										100	59			
			slightly weathered Gt-Bt Gneiss. Comparatively felsic mineral content incresed.Gneissic texture dominant.									100	100			
100												100	100			
												88	100			
105												100	100			
												97	100			
110		114.20										100	100			
			slightly weathered Gt-Bt Gneiss. Comparatively mafic mineral content incresed.Gneissic texture dominant.									100	97			
115		117.20										100	100			
			slightly weathered Gt-Bt Gneiss. Comparatively felsic mineral content incresed.Gneissic texture dominant.									100	100			
120												100	100			
												100	100			
125		126.20														

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GEOLOGICAL SYRVEY AND MINES BUREAU
Telephone +94-11-2595289 / 2596290
Fax +94-11-2592273
E-mail : info@gsmb.gov.lk

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					MINERALIZATION	DEPTH (m) FROM TOP	DEPTH (m) TO BOTTOM	VEIN TYPE	FILLING MATERIALS	THICKNESS (m)	COMMENT	CORE RECOVERY %	CORE RECOVERY %	ROD %		
130			slightly weathered Gt-Bt Gneiss. Comparatively mafic mineral content incresad.Gneissic texture dominant.small amount of dissominated pyrite observed.									100	100	100		
135	135.20		slightly weathered Gt-Bt Gnaiss. Comparatively felsic mineral content incresed.Gneissic texture dominant.									100	100	100		
	139.20											100	100	100		
140			slightly weathered Gt-Bt Gneiss. Comparatively mafic mineral content incresed.Gneissic texture dominant. Hole was terminated at 150.00 m depth.									80	100	100		
145												83	100	100		
												100	100	100		
150	150.00											100	98	100		

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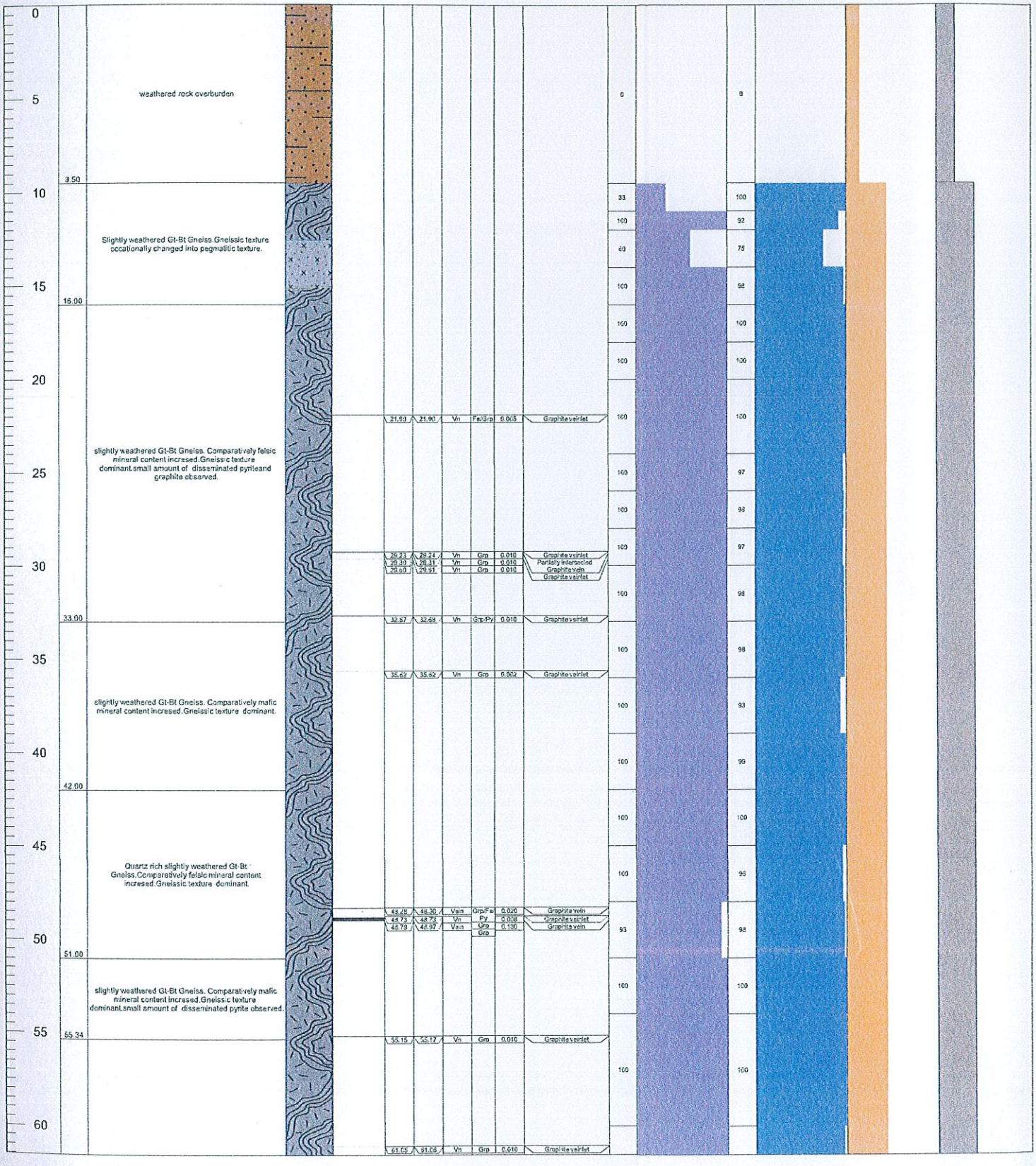
GSMB
GEOLOGICAL SURVEY AND MINES BUREAU
Telephone +94-11-2555279 / 2555295
Fax:+94-11-2555273
E-mail : info@gsmb.gov.lk

DRILLING AND BOREHOLE DATA

LOCATION	:- Dodangaslande	BORE HOLE No.	:- DH03	FINAL DEPTH	:- 199.80 m
DRILLING METHOD	:- Rotary	X-COORDINATE	:- 174535	CASING DEPTH	:- 10.00 m
MACHING TYPE	:- XY-42	Y-COORDINATE	:- 255109	INCLINATION	:- -60°
GEOLOGIST	:- H.S.Lasantha	ELEVATION (COLLAR)	:- 353.00 m	BEARING	:- 317°
TECHNICAL OFFICER	:- Palihawadana/ Chamara	CORE BARREL, BIT	:- NQ		

LEGEND FOR GRAPHIC LOG

- weathered rock overburden
- Gt-Bt Gneiss
- Pegmatite
- Vein
- Vn



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GEOLOGICAL SURVEY AND MINES BUREAU.
Telephone +94-11-2695269 / 2695299
Fax +94-11-2695273
E-mail : info@gsmb.gov.lk

REF. DEPTH (m)	ELEVATION (m)	DEPTH (m)	GENERAL DESCRIPTIONAND REMARKS	GRAPHICAL LOG
		75.00	slightly weathered Gt-Bt Gneiss. Comparatively felsic mineral content incresed.Gneissic texture dominant.small amount of disseminated pyrite observed	
		82.00	pegmatitic rock layer.coarse grained pegmatitic texture dominant	
		99.30	slightly weathered Gt-Bt Gneiss. Comparatively felsic mineral content incresed.Gneissic texture dominant.small amount of disseminated pyrite observed	
		108.30	slightly weathered Gt-Bt Gneiss. Comparatively mafic mineral content incresed.Gneissic texture dominant.small amount of disseminated pyrite observed	
		123.30	slightly weathered Gt-Bt Gneiss. Comparatively felsic mineral content incresed.Gneissic texture dominant.small amount of disseminated graphite observed.	
			slightly weathered Gt-Bt Gneiss. Comparatively mafic mineral content incresed.Gneissic texture dominant.small amount of disseminated graphite and	

GRAPHITE MINERALIZATION								QUALITY OF SOIL OR ROCK			WEATHERING	COMPACTION
MINERALIZATION	DEPTH (m) FROM TOP	DEPTH (m) TO BOTTOM	VEIN TYPE	FILLING MATERIALS	THICKNESS (m)	COMMENT	CORE RECOVERY %	CORE RECOVERY %	ROD %	ROD %		
	88.84	88.75	Vein	Grp/Py	0.140	Graphite vein	100		97			
	87.05	87.05	Vn	Grp/Py	0.005	Graphite veinlet	100		100			
							100		100			
							100		84			
							100		92			
							100		98			
							83		100			
							100		100			
							100		95			
	93.35	93.35	Vn	Py/Grp	0.010	Graphite veinlet	100		94			
							100		100			
							100		99			
	107.12	107.64	Vein	Grp	0.220	Graphite vein	100		97			
							100		100			
	109.20	109.20	Vn	Grp	0.005	Graphite veinlet	100		94			
	109.77	109.93	Vein	Grp	0.160	Partially intersected Graphite vein	100		98			
	110.00	110.60	Vein	Grp/Qtz	0.600	Graphite vein						
	110.50	110.74	Vn	z	0.010	Graphite veinlet						
	111.00	111.10	Vein	Grp	0.030	Graphite vein						
				Grp								
	112.00	112.10	Vein	Grp	0.100	Partially intersected Graphite vein	100		98			
	114.16	114.18	Vn	Grp/Fe	0.002	Graphite veinlet	100		100			
							100		100			
							100		100			
							100		100			

GSMB
GEOLOGICAL SURVEY AND MINES BUREAU
Telephone +94-11-2666289 / 2695290
Fax +94-11-2600213
E-mail : info@gsmb.gov.lk

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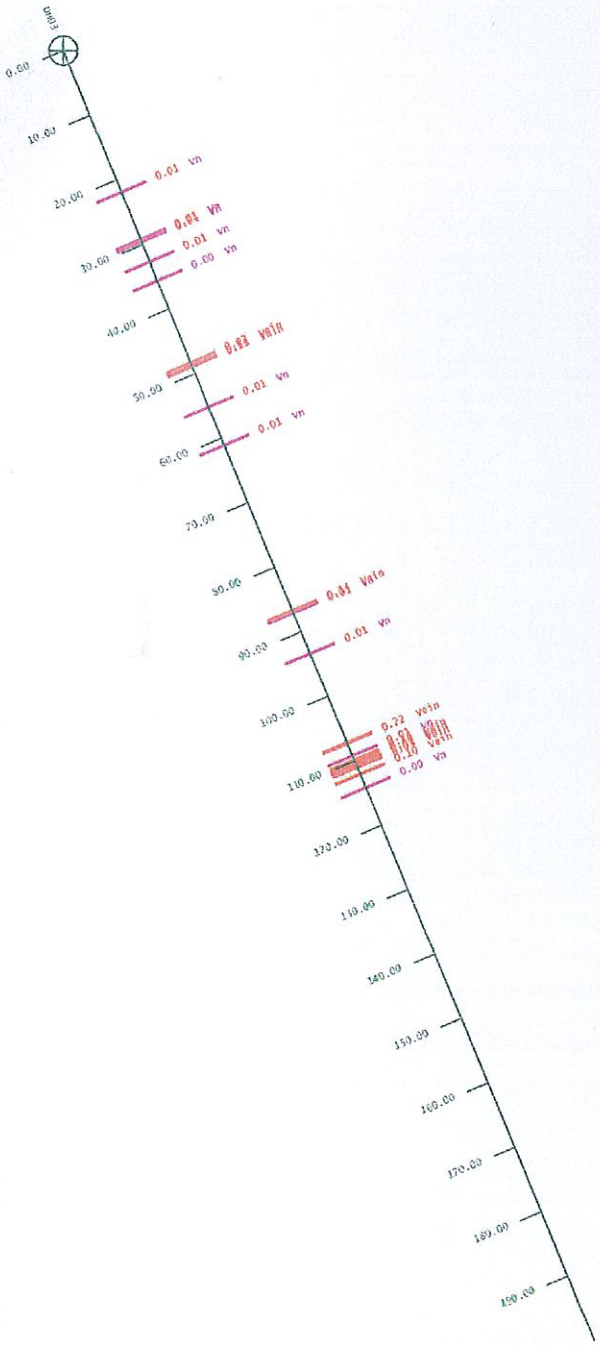
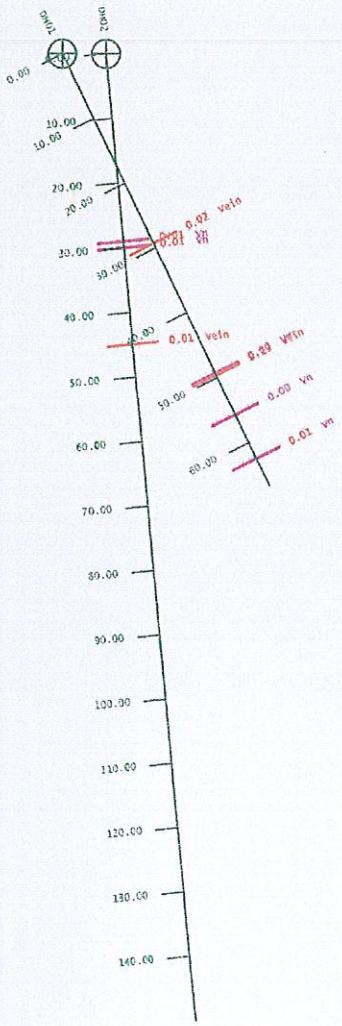
					MINERALIZATION	DEPTH (m) FROM TOP	DEPTH (m) TO BOTTOM	VEIN TYPE	FILLING MATERIALS	THICKNESS (m)	COMMENT	CORE RECOVERY %	ROD %			
			Rock type, colour, grain size, texture and structure (compaction, solussion cavities, cavity fillings etc.)									CORE RECOVERY %	ROD %		FRESH; SLIGHTLY WEATHERED; MODERATELY WEATHERED; HIGHLY WEATHERED	VERY HARD; HARD; MODERATELY HARD; SOFT
130		130.30	pyrite observed.									100	100			
135		139.34	pegmatitic rock layer.coarse grained pegmatitic texture dominant.									100	100			
140			slightly weathered Gt-Bt Gneiss. Comparatively mafic mineral content incresed.Gneissic texture dominant.Comparatively gamet content is decreased.small amount of disseminated graphite and pyrite observed.									100	100			
145												100	100			
150												100	100			
155		159.30										100	100			
160			slightly weathered Gt-Bt Gneiss. Comparatively felsic mineral content incresed.Gneissic texture dominant.Comparatively gamet content is incresed.small amount of disseminated pyrite observed.									100	100			
165		165.30										100	100			
170		171.30	slightly weathered Gt-Bt Gneiss. Comparatively mafic mineral content incresed.Gneissic texture dominant.Comparatively gamet content is decreased.									100	100			
175		177.30	slightly weathered Gt-Bt Gneiss. Comparatively felsic mineral content incresed.Gneissic texture dominant.									100	100			
180												100	100			
185			slightly weathered Gt-Bt Gneiss. Comparatively mafic mineral content incresed.Gneissic texture less dominant.Comparatively gamet content is decreased.									100	100			
190		192.30										100	100			

Annex-II

Cross Sections


DH03
0.00
10.00
20.00
30.00
40.00
50.00
60.00
70.00
80.00
90.00
100.00
110.00
120.00
130.00
140.00
150.00
160.00
170.00
180.00
190.00
0.01 Vn
0.01 Vn
0.01 Vn
0.00 Vn
0.01 Vein
0.01 Vn
0.01 Vn
0.01 Vein
0.01 Vn
0.22 Vein
0.00 Vn


DH01
DH02
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10.00
20.00
30.00
40.00
50.00
60.00
70.00
80.00
90.00
100.00
110.00
120.00
130.00
140.00
0.02 Vein
0.01 Vn
0.01 Vein
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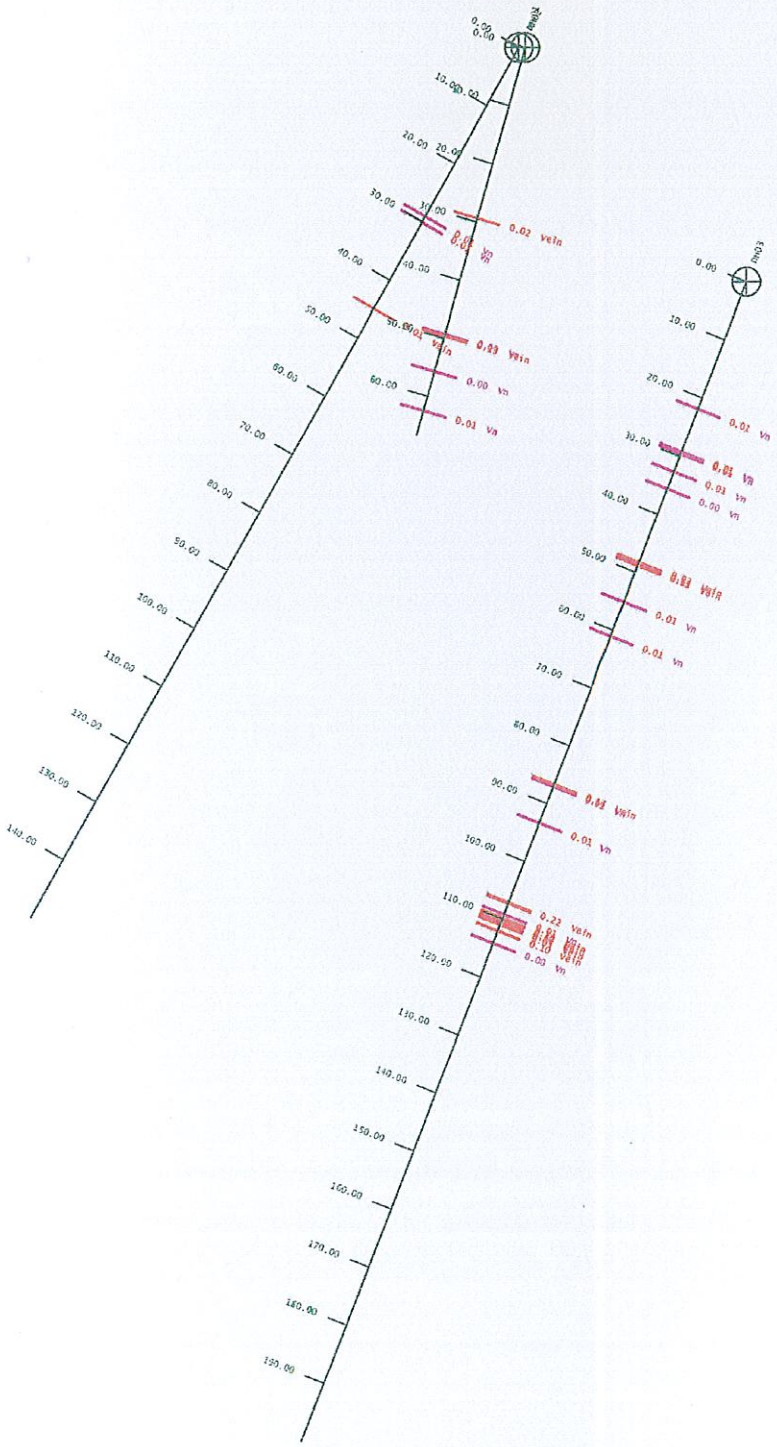
0.01 Vn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110.00
120.00
130.00
140.00
0.02 Vein
0.01 Vn
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0.01 Vn
0.00
node3
10.00
20.00
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160.00
170.00
180.00
190.00
0.01 Vn
0.01 Vn
0.01 Vn
0.00 Vn
0.01 Vein
0.01 Vn
0.01 Vn
0.01 Vein
0.01 Vn
0.22 Vein
0.03 Vn

DH03
0.00
10.00
20.00
30.00
40.00
50.00
60.00
70.00
80.00
90.00
100.00
110.00
120.00
130.00
140.00
150.00
160.00
170.00
180.00
190.00
0.01 Vn
0.01 Vn
0.00 Vn
0.01 Vn
0.03 Vein
0.01 Vn
0.01 Vn
0.04 Vein
0.00 Vn
0.22 Vein
DH02
0.00
10.00
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80.00
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110.00
120.00
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140.00
0.02 Vein
0.01 Vn
0.00 Vn
0.00 Vein
0.01 Vn