**APPENDIX**

ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่

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LITHOLOGIC LOG DATA
 OF
 GROUNDWATER INVESTIGATION SECTION
 DEPARTMENT OF GROUNDWATER RESOURCES

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DG0001CM1

BAN SI DON CHAI SMALL. TAMBON SAN SAI AMPHOE SARAPHI
CHANGWAT CHIANG MAI

Depth 30 m. Aquifer type sand, gravel

Perforation interval 21-27 m.

	Depth (m.) from-to
SAND & GRAVEL : various colors, medium sand to fine gravel, angular to subrounded, poorly sorted, consists of 60% sand, 40% gravel, composed of quartz, quartzite, laterite.	0 - 3
CLAY : light brownish gray, slightly plastic.	3-12
SAND & GRAVEL : black, medium sand to very fine gravel, angular to subrounded, poorly sorted, consists of 60% sand, 40% gravel, composed of quartz, feldspars, chert.	12 - 27
CLAY : yellowish brown, sandy, gravelly.	27 - 30

DG0002CM2

WAT SI MUNG MUANG MU THI TAMBON LUANG NUA AMPHOE DOI SAKET
CHANGWAT CHIANG MAI

Depth 24 m. Aquifer type gravel

Perforation interval 19.5-22.5 m.

	Depth(m.) from-to
CLAY : light brownish gray.	0 - 11
GRAVEL : gray and white, medium gravel to coarse gravel, angular to subrounded, well sorted, composed of quartz with quartzite with sandstone.	11 - 20
GRAVEL : brownish orange, clayey, medium gravel to coarse gravel, angular to subrounded, well sorted, composed of quartz , quartzite , sandstone.	20 - 24

DG0031CM31

BAN MAE PONG SCHOOL MU THI 4 TAMBON MAE PONG AMPHOE DOI SAKET
CHANGWAT CHIANG MAI

Depth 33 m. Aquifer type limestone

Perforation interval 18-30 m.

	Depth(m.) from-to
ROCK : light brownish orange, slightly weathered to moderately weathered, hard to very hard.	0 - 2

LIMESTONE : 2 - 33
white, partially vitreous luster, microcrystalline, fresh to slightly weathered, very hard, uncertain rock type.

DG0032CM32

WAT BAN PA TUNG MU THI 7 TAMBON ON TAI AMPHOE SAN KAMPHAENG
CHANGWAT CHIANG MAI

Depth 47 m. Aquifer type shale Depth to bed rock 11 m.

Perforation interval 18-30,36-42 m.

	Depth(m.) from-to
CLAY : orangish red, sandy, gravelly, slightly plastic to plastic.	0 - 11
SHALE : dark black, friable, moderately weathered to highly weathered, soft.	11 - 18
SHALE : black, brittle, friable, fresh to slightly weathered, moderately hard.	18 - 47

DG0033CM33

BAN WAT BAN SI BUNRUANG MU THI 13 TAMBON MAE SAO AMPHOE MAE AI
CHANGWAT CHIANG MAI

Depth 48 m. Aquifer type gravel Perforation interval 39-45 m.

	Depth(m.) from-to
SAND : light brownish gray, gravelly, clayey, fine sand to very fine gravel, subangular to subrounded, poorly sorted, composed of quartz , feldspars , rock fragments.	0 - 9
SAND & GRAVEL : light brownish gray, medium sand to fine gravel, angular to subrounded, poorly sorted, composed of quartz , feldspars , rock fragments.	9 - 12
CLAY : dark yellowish brown, sandy, gravelly.	12 - 20
GRAVEL : light brownish gray, sandy, medium sand to medium gravel, angular to subrounded, poorly sorted, composed of quartz , feldspars , various.	20 - 21

DG0034CM34

BAN MUANG NGAM SCHOOL MU THI 9 TAMBON THA TON AMPHOE MAE AI
CHANGWAT CHIANG MAI

Depth 27 m. Aquifer type granite washed Depth to bed rock 8 m.

Perforation interval 18-24 m.

	Depth(m.) from-to
CLAY : brownish orange, sandy, slightly plastic to plastic.	0 - 6
GRAVEL : light yellowish brown, medium gravel to coarse gravel,	6 - 8

angular to subangular, moderately sorted, composed of quartz, various kinds of rock fragments.

GRANITE WASHED :

8 - 27

light brownish gray, composed of quartz , feldspars , biotite.

DG0035CM35

BAN THA PU MU THI 2 TAMBON MAE NA WANG AMPHOE MAE AI
CHANGWAT CHIANG MAI

Depth 35 m. Aquifer type tuff Depth to bed rock 21 m.

Perforation interval 24-30 m.

CLAY :

Depth(m.) from-to
0 - 5

grayish brown, sandy, slightly plastic to plastic.

CLAY :

5 - 8

light yellowish brown, sandy, slightly plastic to plastic.

GRAVEL:

8 - 21

light brownish gray and light yellowish brown, very fine gravel to medium gravel, angular to subrounded, poorly sorted, composed of quartz , quartzite , schist fragments.

TUFF :

21 - 35

grayish green, aphanitic, slightly weathered to moderately weathered, hard.

DG0036CM36

BAN WAT MUANG SAM HOI BAN MAI MU THI TAMBON BAN LUANG AMPHOE MAE AI
CHANGWAT CHIANG MAI

Depth 35 m. Aquifer type gravel

Perforation interval 21-27 m.

CLAY :

Depth(m.) from-to
0 - 6

yellowish brown, slightly plastic to plastic.

GRAVEL :

6 - 9

very fine gravel to medium gravel, angular to subrounded, moderately sorted, composed of quartz , feldspars , rock fragments.

CLAY :

9 - 12

light brownish gray, slightly plastic to plastic.

GRAVEL :

12 - 14

sandy, clayey, coarse sand to medium gravel, angular to subrounded, poorly sorted, composed of quartz , feldspars , rock fragments.

CLAY :

14 - 24

yellowish brown, slightly plastic to plastic.

GRAVEL :

24 - 27

sandy, clayey, coarse sand to medium gravel, angular to subrounded, poorly sorted, composed of quartz , feldspars , rock fragments.

CLAY : 27 - 35
yellowish brown, slightly plastic to plastic.

DG0037CM37

BAN WAT SAN PA SAK MU THI 2 TAMBON MAE SAO AMPHOE MAE AI
CHANGWAT CHIANG MAI

Depth 59 m. Aquifer type gravel

Perforation interval 48-54 m.

	Depth(m.) from-to
CLAY : dark yellowish brown, sandy.	0 - 5
SAND & GRAVEL : fine sand to fine gravel, angular to subrounded, poorly sorted, composed of quartz , feldspars.	5 - 9
CLAY : light grayish green, sandy, gravelly.	9 - 11
GRAVEL : sandy, very coarse sand to coarse gravel, angular to subrounded, poorly sorted, composed of quartz , feldspars , quartzite.	11 - 20
CLAY : grayish green, sandy, slightly plastic to plastic.	20 - 41
GRAVEL : sandy, very coarse sand to coarse gravel, angular to subrounded, poorly sorted, composed of quartz , feldspars , quartzite.	41 - 54
CLAY : grayish green, sandy, slightly plastic to plastic.	54 - 59

DG0038CM38

BAN SAN TON MU TAMBON SAN TON MU AMPHOE MAE AI
CHANGWAT CHIANG MAI

Depth 47 m. Aquifer type sand

Perforation interval 36-42 m.

	Depth(m.) from-to
CLAY : light brownish gray, gravelly, sandy.	0 - 3
GRAVEL : sandy, coarse sand to medium gravel, subangular to subrounded, poorly sorted, composed of quartz , feldspars.	3 - 6
CLAY : light reddish brown, sandy, gravelly, slightly plastic.	6 - 17
GRAVEL : black, fine gravel to coarse gravel, subangular to subrounded, moderately sorted, composed of quartz , various kinds of rock fragments.	17 - 23

GRAVEL & SAND :	23 - 38
light yellowish brown, clayey, medium sand to fine gravel, angular to subrounded, poorly sorted, composed of quartz , feldspars , ferromagnesian minerals.	
SAND :	38 - 42
light brownish gray, medium sand to coarse sand, angular to subrounded, well sorted, composed of quartz , dark minerals.	
GRAVEL & SAND :	42 - 47
light yellowish brown, clayey, medium sand to fine gravel, angular to subrounded, poorly sorted, composed of quartz , feldspars , ferromagnesian minerals.	

DG0039CM39

WAT CHAIYASATHAN TAMBON MAE AI A MPHOE MAE AI
CHANGWAT CHIANG MAI

Depth 71 m. Aquifer type sand

Perforation interval 30-36, 42-48,60-66 m.

	Depth(m.) from-to
SAND :	0 - 2
dark yellowish brown, gravelly, clayey, coarse sand to fine gravel, angular to subrounded, poorly sorted, composed of quartz , sandstone.	
CLAY :	2 - 12
orangish red, slightly plastic to plastic.	
SAND :	12 - 17
yellowish brown, gravelly, coarse sand to medium gravel, angular to subangular, poorly sorted, composed of quartz , quartzite , sandstone.	
CLAY :	17 - 32
orangish red, sandy, gravelly, slightly plastic to plastic.	
SAND :	32 - 33
orangish red, gravelly, clayey, medium sand to very fine gravel, subangular, poorly sorted, composed of quartz , various kinds of rock fragments.	
CLAY :	33 - 45
reddish brown, plastic.	
SAND :	45 - 71
orangish red, fine sand to very coarse sand, angular to subangular, poorly sorted, composed of quartz , feldspars , various kinds of rock fragments.	

DG0040CM40

BAN WAT SI SONG MUANG MU THI 4 TAMBON BAN LUANG AMPHOE MAE AI
CHANGWAT CHIANG MAI

Depth 38 m. Aquifer type granite Depth to bed rock 6 m.

Perforation interval 24-36 m.

	Depth(m.) from-to
CLAY :	0 - 6
dark brown, sandy, slightly plastic.	
GRANITE WASHED :	6 - 24
light yellowish orange.	
GRANITE :	24 - 38
gray and dark gray, composed of quartz , feldspars , micas, moderately weathered, hard.	

DG0041CM41

WAT DOI KAEU MU THI 1 TAMBON NONG KHWAI AMPHOE HANG DONG
CHANGWAT CHIANG MAI

Depth 101 m. Aquifer type gravel, sand

Perforation interval 36-42,66-72,84-96 m.

	Depth(m.) from-to
CLAY :	0 - 3
light reddish brown, sandy, plastic to high plastic.	
CLAY :	3 - 6
light yellowish brown, sandy, plastic.	
CLAY :	6 - 35
dark yellowish brown, sandy, gravelly, slightly plastic to plastic.	
GRAVEL :	35 - 41
various colors, sandy, clayey, coarse sand to medium gravel, angular to subangular, poorly sorted, composed of quartz , feldspars , shale fragments with sandstone fragments.	
SAND :	41 - 56
various colors, gravelly, medium sand to very fine gravel, angular to subangular, poorly sorted, composed of quartz , feldspars , shale fragments with sandstone fragments.	
GRAVEL :	56 - 71
various colors, sandy, clayey, coarse sand to medium gravel, angular to subangular, poorly sorted, composed of quartz , feldspars , shale fragments with sandstone fragments.	
GRAVEL :	71 - 74
various colors, sandy, very coarse sand to medium gravel, angular to subangular, poorly sorted, composed of quartz , quartzite , shale fragments with sandstone fragments.	
SAND :	74 - 101
various colors, gravelly, medium sand to very fine gravel, angular to subangular, poorly sorted, composed of quartz , shale fragments, sandstone fragments.	

DG0043CM43

WAT HUAI KAE MU THI 3 TAMBON MAE FAEK AMPHOE SAN SAI
CHANGWAT CHIANG MAI

Depth 24 m. Aquifer type gravel

Perforation interval 15-19.5 m.

	Depth(m.) from-to
CLAY : light yellowish orange, gravelly, slightly plastic.	0 - 2
CLAY : light yellowish brown, gravelly, slightly plastic.	2 - 9
GRAVEL : various colors, sandy, coarse sand to very fine gravel, subrounded, moderately sorted, composed of quartz , feldspars , rock fragments.	9 - 11
CLAY : light yellowish orange, sandy, slightly plastic.	11 - 12
GRAVEL : various colors, sandy, very fine gravel to medium gravel, subangular, poorly sorted, composed of quartz , feldspars , rock fragments.	12 - 14
GRAVEL : fine gravel to medium gravel, subrounded, moderately sorted, composed of quartz , siltstone , sandstone.	14 - 18
GRAVEL : various colors, clayey, fine gravel to medium gravel, angular, moderately sorted, composed of quartz , siltstone , sandstone.	18 - 21
CLAY : brownish orange, gravelly, slightly plastic.	21 - 24

DG0044CM44

BAN MAKHAM WAN MU THI 10 TAMBON MAKHAM LUANG AMPHOE SAN PA TONG
CHANGWAT CHIANG MAI

Depth 29 m. Aquifer type gravel

Perforation interval 18-24 m

	Depth(m.) from-to
CLAY : light grayish, slightly plastic.	0 - 2
SAND : grayish brown, very fine sand to medium sand, subrounded, well sorted.	2 - 3
CLAY : black, plastic.	3 - 5
GRAVEL & SAND : various colors, coarse sand to medium gravel, subangular to rounded, moderately sorted to well sorted, composed of quartz , feldspars , various kinds of rock fragments.	5 - 14
SAMPLE LOST :	14 - 15

CLAY :	15 - 18
yellowish brown, gravelly, slightly plastic.	
GRAVEL :	18 - 23
various colors, sandy, very coarse sand to coarse gravel, subangular to rounded, moderately sorted, composed of quartz , dark rocks , feldspars.	
CLAY :	23 - 29
yellowish brown, gravelly, slightly plastic.	

DG0045CM45

WAT THUNG SILA MU THI 1 TAMBON BAN KAT AMPHOE MAE WANG

CHANGWAT CHIANG MAI

Depth 35 m.

	Depth(m.) from-to
CLAY :	0 - 8
light brownish orange, sandy, plastic.	
CLAY :	8 - 15
light yellowish brown, gravelly, slightly plastic.	
CLAY :	15 - 17
light brownish orange, sandy, plastic.	
GRAVEL :	17 - 20
various colors, sandy, very fine gravel to fine gravel, subangular, moderately sorted, composed of quartz , chert.	
SAND :	20 - 21
yellowish olive, gravelly, coarse sand to very coarse sand, subrounded, moderately sorted, composed of quartz.	
GRAVEL :	21 - 35
various colors, sandy, very fine gravel to medium gravel, subrounded, poorly sorted, composed of quartz , chert , sandstone.	

REMARK : ABNADONED DRY HOLE

DG0047CM47

WAT BAN DONG BAN PA DAENG MU THI 8 TAMBON BAN PONG AMPHOE PHRAO

CHANGWAT CHIANG MAI

Depth 29 m. Aquifer type filled

Perforation interval 18-24 m.

	Depth(m.) from-to
TOP SOIL :	0 - 3
light yellowish olive.	
GRAVEL :	3 - 6
very fine gravel to fine gravel, subangular to subrounded, moderately sorted to well sorted, composed of sandstone , quartz , feldspars, size decreased with depth.	
CLAY :	6 - 18

light grayish orange and dark brownish orange, slightly sandy,
slightly gravelly, plastic.

FILLED DEPOSIT : 18 - 26

various colors, composed of sandstone , shale.

FILLED DEPOSIT : 26 - 29

white, composed of shale , sandstone, size decreased with depth.

DG0048CM48

BAN NA PAK MU THI 6 TAMBON MAE HO PHRA AMPHOE MAE TAENG

CHANGWAT CHIANG MAI

Depth 23 m. Aquifer type sand

Perforation interval 21-27 m.

	Depth(m.) from-to
CLAY : yellowish brown, plastic.	0 - 2
CLAY : light brownish orange, sandy, nonplastic.	2 - 3
SAND : light brownish orange, clayey.	3 - 6
CLAY : various colors, slightly plastic to plastic.	6 - 8
SAMPLE LOST :	8 - 12
SAND : brown, clayey.	12 - 14
SAMPLE LOST :	14 - 15
CLAY : white, slightly plastic.	15 - 17
SAMPLE LOST :	17 - 20
SAND : brown, gravelly, fine sand to medium sand, subangular to subrounded, well sorted to very well sorted.	20 - 23

DG0050CM50

WAT SAN KHWANG MU THI 3 TAMBON NAM PHRAE AMPHOE PHRAO

CHANGWAT CHIANG MAI

Depth 47 m. Aquifer type gravel

Perforation interval 27-33 m.

	Depth(m.) from-to
CLAY : dark gray, plastic.	0 - 3
SAND : gray, very fine sand to medium sand, subangular to subrounded, moderately sorted, composed of quartz , feldspars , dark minerals.	3 - 6
GRAVEL: various colors, medium sand to fine gravel, subangular to subrounded, poorly sorted, composed of quartz , feldspars ,	6 - 8

quartzite.	
GRAVEL :	8 - 12
various colors, fine gravel to medium gravel, subrounded to rounded, well sorted, composed of quartz , sandstone , quartzite.	
GRAVEL :	12 - 15
various colors, clayey, fine gravel to medium gravel, subrounded to rounded, poorly sorted, composed of quartz , sandstone , quartzite with clay.	
GRAVEL & CLAY :	15 - 20
various colors, fine gravel to medium gravel, subrounded to rounded, poorly sorted, consists of 60% gravel, 40% clay, composed of quartz, sandstone, clay.	
GRAVEL :	20 - 24
various colors, clayey, fine gravel to medium gravel, subrounded to rounded, moderately sorted, composed of quartz , sandstone , quartzite with clay.	
GRAVEL & CLAY :	24 - 26
various colors, fine gravel to medium gravel, subrounded to rounded, poorly sorted, consists of 60% gravel, 40% clay, composed of quartz , clay.	
GRAVEL :	26 - 33
various colors, fine gravel to medium gravel, subrounded to rounded, well sorted, composed of quartz , sandstone , quartzite with siltstone.	
GRAVEL :	33 - 35
various colors, fine gravel to medium gravel, subrounded to rounded, poorly sorted, composed of quartz , sandstone , quartzite with clay.	
CLAY :	35 - 36
light orangish brown, fine gravel to medium gravel, slightly plastic.	
GRAVEL :	36 - 39
various colors, sandy, fine gravel to medium gravel, subrounded to rounded, poorly sorted, composed of quartz , sandstone , siltstone with feldspars with clay.	
GRAVEL & CLAY :	39 - 45
various colors, fine gravel to medium gravel, subrounded to rounded, poorly sorted, consists of 60% gravel, 40% clay, composed of quartz , sandstone , siltstone with feldspars with clay.	
GRAVEL :	45 - 47
fine gravel to medium gravel, subrounded to rounded, moderately sorted, composed of quartz , sandstone , quartzite.	

G0438CM133

BAN SAN SAI KHONG NOI MU THI 6 TAMBON WIANG AMPHOE FANG
CHANGWAT CHIANG MAI

Depth 90 m. Aquifer type sand, gravel
Perforation interval 21-27, 54-60,69-81 m.

Depth(m.) from-to

CLAY :	0 - 3
orange, composed of sand presented in places, plastic, soft.	
SAND & GRAVEL :	3 - 90
white, very coarse sand to very fine gravel, subangular to subrounded, moderately sorted, consists of 70% sand, 30% gravel, composed of quartz , feldspars.	

G0439CM134

WAT BAN NONG TUM MU THI 1 TAMBON WIANG AMPHOE FANG CHANGWAT
CHIANG MAI

Depth 90 m. Aquifer type gravel, sand
Perforation interval 24-36 m.

	Depth(m.) from-to
CLAY :	0 - 3
yellow, plastic, soft.	
GRAVEL :	3 - 29
white and light yellow, sandy, very coarse sand to very fine gravel, subrounded, moderately sorted, composed of quartz.	
SAND :	29 - 48
white, very coarse sand, subrounded, well sorted, composed of quartz.	
CLAY :	48 - 56
gray, high plastic, soft.	
SAND :	6 - 60
white, very coarse sand, subrounded, well sorted, composed of quartz.	
CLAY :	60 - 86
gray, high plastic, soft.	
SAND : 86 - 90	
white, medium sand to very coarse sand, subrounded, well sorted, composed of quartz , clay presented in places.	

G0440CM135

BAN SAN MUANG SCHOOL MU THI 3 TAMBON MAE NGON AMPHOE FANG
CHANGWAT CHIANG MAI

Depth 120 m. Aquifer type sand, gravel
Perforation interval 18-24,48-54,72-78 m.

	Depth(m.) from-to
CLAY :	0 - 8
brownish yellow, high plastic, soft.	
CLAY :	8 - 15
pink, high plastic, soft.	
SAND & GRAVEL :	15 - 39
various colors, clayey, fine sand to very fine gravel, angular to subrounded, moderately sorted, consists of 60% sand, 40% gravel, composed of quartz , feldspars, loose.	
SAND & GRAVEL :	39 - 80
various colors, clayey, very coarse sand to very fine gravel, angular to subrounded, moderately sorted, consists of 60% sand, 40% gravel,	

composed of quartz , feldspars.

SAND : 80 - 104
SAND : 104 - 120

white and light gray, coarse sand to very coarse sand, subangular, moderately sorted to well sorted, composed of quartz , feldspars , dark minerals, loose.

G0445CM140

BAN CHIANG MAI MU THI 3 TAMBON MAE SA AMPHOE MAE RIM
CHANGWAT CHIANG MAI

Depth 84 m. Aquifer type sand, gravel
Perforation interval 18-30 m.

	Depth(m.) from-to
CLAY : brown, sandy, plastic, compacted.	0 - 3
CLAY : light yellow, high plastic.	3 - 12
SAND & GRAVEL : various colors, very fine sand to very fine gravel, angular to well rounded, poorly sorted, consists of 60% sand, 40% gravel, composed of quartz , chert fragments.	12 - 32
CLAY : light greenish gray, plastic.	32 - 41
SAND : light brown, gravelly, very fine sand to coarse sand, angular to well rounded, moderately sorted, composed of quartz , feldspars.	41 - 51
CLAY : light greenish gray, plastic.	51 - 56
SAND : light brown, gravelly, very fine sand to coarse sand, angular to well rounded, moderately sorted, composed of quartz , feldspars.	56 - 62
CLAY : light greenish gray, plastic, compacted.	62 - 63
SAND : light brown, gravelly, very fine sand to very coarse sand, angular to well rounded, poorly sorted, composed of quartz , feldspars , laterite fragments with chert fragments.	63 - 84

G0440CM135

BAN SAN MUANG SCHOOL MU THI 3 TAMBON MAE NGON AMPHOE FANG
CHANGWAT CHIANG MAI

Depth 120 m.

	Depth(m.) from-to
CLAY : brownish yellow, high plastic, soft.	0 - 8

CLAY :	8 - 15
pink, high plastic, soft.	
SAND & GRAVEL :	15 - 39
various colors, clayey, fine sand to very fine gravel, angular to subrounded, moderately sorted, consists of 60% sand, 40% gravel, composed of quartz , feldspars, loose.	
SAND & GRAVEL :	39 - 80
various colors, clayey, very coarse sand to very fine gravel, angular to subrounded, moderately sorted, consists of 60% sand, 40% gravel, composed of quartz , feldspars.	
SAND :	80 - 104
SAND :	104 - 120
white and light gray, coarse sand to very coarse sand, subangular, moderately sorted to well sorted, composed of quartz , feldspars , dark minerals, loose.	

G0500CM178

BAN PING KHONG PUBLIC ARE MU THI 2 TAMBON PING KHONG AMPHOE CHIANG DAO
CHANGWAT CHIANG MAI

Depth 35 m. Depth to bed rock 3 m.

	Depth(m.) from-to
CLAY :	0 - 3
brown, silty, compacted.	
SHALE :	3 - 35
black, slaty cleavage, massive, hard to dense.	

G0501CM179

WAT PHRATHAT CHOM THAM MU THI 5 TAMBON MAE TAENG AMPHOE MAE TAENG
CHANGWAT CHIANG MAI

Depth 32 m. Perforation interval 9-15,21-27 m.

	Depth(m.) from-to
GRAVEL:	0 - 3
brown, fine gravel to very coarse gravel, angular to rounded, poorly sorted, composed of quartz, feldspars, sandstone with quartzite fragments.	
SAND :	3 - 9
brown, gravelly, fine sand to very coarse sand, angular to rounded, poorly sorted, composed of quartz , feldspars , chert fragments.	
GRAVEL :	9 - 15
brown, fine gravel to very coarse gravel, angular to rounded, poorly sorted, composed of quartz , feldspars , sandstone with quartzite fragments.	
SAND :	15 - 20
brown, fine gravel to very coarse gravel, angular to rounded, poorly sorted, composed of quartz , feldspars , sandstone with quartzite fragments.	

SAND :	20 - 23
brown, fine sand to very coarse sand, subrounded, poorly sorted, composed of quartz , chert fragments.	
CLAY :	23 - 27
yellowish brown, silty, sandy, plastic, compacted.	
SAND :	27 - 32
brown, fine gravel to very coarse gravel, angular to rounded, poorly sorted, composed of quartz , feldspars , sandstone with quartzite fragments.	

G0438CM133

BAN SAN SAI KHONG NOI MU THI 6 TAMBON WIANG AMPHOE FANG
CHANGWAT CHIANG MAI

Depth 90 m. Aquifer type sand, gravel
Perforation interval 21-27,54-60,69-81 m.

	Depth(m.) from-to
CLAY :	0 - 3
orange, composed of sand presented in places, plastic, soft.	
SAND & GRAVEL :	3 - 90
white, very coarse sand to very fine gravel, subangular to subrounded, moderately sorted, consists of 70% sand, 30% gravel, composed of quartz , feldspars.	

G0439CM134

WAT BAN NONG TUM MU THI 1 TAMBON WIANG AMPHOE FANG CHANGWAT
CHIANG MAI

Depth 90 m. Aquifer type gravel, sand
Perforation interval 24-36 m.

	Depth(m.) from-to
CLAY :	0 - 3
yellow, plastic, soft.	
GRAVEL :	3 - 29
white and light yellow, sandy, very coarse sand to very fine gravel, subrounded, moderately sorted, composed of quartz.	
SAND :	29 - 48
white, very coarse sand, subrounded, well sorted, composed of quartz.	
CLAY :	48 - 56
gray, high plastic, soft.	
SAND :	6 - 60
white, very coarse sand, subrounded, well sorted, composed of quartz.	
CLAY :	60 - 86
gray, high plastic, soft.	
SAND :	86 - 90
white, medium sand to very coarse sand, subrounded, well sorted, composed of quartz , clay presented in places.	

G0440CM135

BAN SAN MUANG SCHOOL MU THI 3 TAMBON MAE NGON AMPHOE FANG
CHANGWAT CHIANG MAI

Depth 120 m. Aquifer type sand, gravel
Perforation interval 18-24,48-54,72-78 m.

	Depth(m.) from-to
CLAY : brownish yellow, high plastic, soft.	0 - 8
CLAY : pink, high plastic, soft.	8 - 15
SAND & GRAVEL : various colors, clayey, fine sand to very fine gravel, angular to subrounded, moderately sorted, consists of 60% sand, 40% gravel, composed of quartz , feldspars, loose.	15 - 39
SAND & GRAVEL : various colors, clayey, very coarse sand to very fine gravel, angular to subrounded, moderately sorted, consists of 60% sand, 40% gravel.	39 - 80
SAND : composed of quartz , feldspars.	80 - 104
SAND : white and light gray, coarse sand to very coarse sand, subangular, moderately sorted to well sorted, composed of quartz , feldspars , dark minerals, loose.	104 - 120

G0442CM137

WAT PHRA CHAO PHROM MAHAR MU THI 11 TAMBON PONG TAM AMPHOE FANG
CHANGWAT CHIANG MAI

Depth 16 m. Perforation interval 12-24 m.

	Depth(m.) from-to
CLAY : yellowish orange and orange, slightly plastic, soft.	0 - 134
GRAVEL : brown, clayey, very fine gravel, angular to subangular, moderately sorted, composed of quartz , feldspars , rock fragments, loose.	134 - 141
SAND : brown, lateritic, coarse sand to very coarse sand, subangular, well sorted, composed of quartz , feldspars , chert with rock fragments, loose.	141 - 159

G0445CM140

BAN CHIANG MAI YOUTH EXAMINE MU THI 3 TAMBON MAE SA AMPHOE MAE RIM
CHANGWAT CHIANG MAI

Depth 84 m. Aquifer type sand, gravel

Perforation interval 18-30 m.

	Depth(m.) from-to
CLAY : brown, sandy, plastic, compacted.	0 - 3
CLAY : light yellow, high plastic.	3 - 12
SAND & GRAVEL : various colors, very fine sand to very fine gravel, angular to well rounded, poorly sorted, consists of 60% sand, 40% gravel, composed of quartz , chert fragments.	12 - 32
CLAY : light greenish gray, plastic.	32 - 41
SAND : light brown, gravelly, very fine sand to coarse sand, angular to well rounded, moderately sorted, composed of quartz , feldspars.	41 - 51
CLAY : light greenish gray, plastic.	51 - 56
SAND : light brown, gravelly, very fine sand to coarse sand, angular to well rounded, moderately sorted, composed of quartz , feldspars.	56 - 62
CLAY : light greenish gray, plastic, compacted.	62 - 63
SAND : light brown, gravelly, very fine sand to very coarse sand, angular to well rounded, poorly sorted, composed of quartz , feldspars , laterite fragments with chert fragments.	63 - 84

G0448CM142

WAT CHANG KHOENG MU THI 4 TAMBON SARAPHI AMPHOE SARAPHI
CHANGWAT CHIANG MAI

Depth 86 m. Aquifer type sand

Perforation interval 42-60 m.

	Depth(m.) from-to
CLAY : brown, high plastic, compacted.	0 - 5
SAND : light brown, gravelly, clayey, very fine sand to coarse sand, angular to subrounded, poorly sorted, composed of quartz , feldspars.	5 - 9
CLAY : light yellow, high plastic, compacted.	9 - 14
SAND : light brown, clayey, very fine sand to coarse sand, angular to well rounded, moderately sorted, composed of quartz , feldspars.	14 - 23

CLAY :	23 - 39
yellowish brown, plastic, compacted.	
SAND :	39 - 69
light gray, gravelly, very fine sand to very coarse sand, angular to well rounded, poorly sorted, composed of quartz , feldspars.	
CLAY :	69 - 75
yellowish brown, sandy, plastic, compacted.	
SAND & GRAVEL :	75 - 86
light brown, fine sand to very fine gravel, subangular to well rounded, poorly sorted, composed of quartz , feldspars.	

G0440CM135

BAN SAN MUANG SCHOOL MU THI 3 TAMBON MAE NGON AMPHOE FANG
CHANGWAT CHIANG MAI
Depth 120 m.

	Depth(m.) from-to
CLAY :	0 - 8
brownish yellow, high plastic, soft.	
CLAY :	8 - 15
pink, high plastic, soft.	
SAND & GRAVEL :	15 - 39
various colors, clayey, fine sand to very fine gravel, angular to subrounded, moderately sorted, consists of 60% sand, 40% gravel, composed of quartz , feldspars, loose.	
SAND & GRAVEL :	39 - 80
various colors, clayey, very coarse sand to very fine gravel, angular to subrounded, moderately sorted, consists of 60% sand, 40% gravel, composed of quartz , feldspars.	
SAND:	80 - 104
SAND :	104 - 120
white and light gray, coarse sand to very coarse sand, subangular, moderately sorted to well sorted, composed of quartz , feldspars , dark minerals, loose.	

G0450CM144

BAN NONG PHUNG PUBLIC ARE MU THI 1 TAMBON NONG PHUNG AMPHOE SARAPHI
CHANGWAT CHIANG MAI
Depth 92 m. Aquifer type gravel
Perforation interval 54-72 m.

	Depth(m.) from-to
CLAY :	0 - 2 dark
brown, silty, sandy, slightly plastic, compacted.	
SAND :	2 - 3
various colors, gravelly, very fine sand to very coarse sand, angular to well rounded, poorly sorted, composed of quartz ,	

feldspars with chert fragments.	
CLAY :	3 - 9
brown, silty, sandy, plastic, compacted.	
SAND & GRAVEL :	9 - 20
light gray, very fine sand to very fine gravel, subangular to well rounded, poorly sorted, consists of 60% sand, 30% gravel, composed of quartz , feldspars.	
GRAVEL :	20 - 92
various colors, sandy, fine gravel to medium gravel, subangular to subrounded, poorly sorted, composed of quartz , feldspars.	

G0451CM145

WAT TON PHUNG PUBLIC AREA MU THI 4 TAMBON SAN THAWAI AMPHOE SARAPHI
CHANGWAT CHIANG MAI

Depth 56 m. Aquifer type gravel

Perforation interval 36-54 m

	Depth(m.) from-to
CLAY :	0 - 3
brown, high plastic, compacted.	
SAND :	3 - 6
brown, gravelly, very fine sand to very coarse sand, angular to well rounded, poorly sorted, composed of quartz , feldspars with chert fragments.	
CLAY :	6 - 11
greenish gray, plastic, compacted.	
SAND :	11 - 14
gray, gravelly, very fine sand to very coarse sand, angular to well rounded, poorly sorted, composed of quartz , feldspars with siltstone fragments with chert fragments.	
CLAY :	14 - 15
greenish brown, gravelly, slightly plastic, compacted.	
SAND :	15 - 26
light brown, gravelly, very fine sand to very coarse sand, angular to well rounded, poorly sorted, composed of quartz , feldspars with chert fragments with micas ?.	
GRAVEL :	26 - 56
various colors, sandy, clayey, fine gravel to coarse gravel, angular to well rounded, poorly sorted, composed of quartz.	

G0463CM157

BAN NONG PLA MAN PUBLIC A MU THI 2 TAMBON HUAI SAI AMPHOE MAE RIM
CHANGWAT CHIANG MAI

Depth 32 m. Aquifer type sand

Perforation interval 18-30 m.

	Depth(m.) from-to
CLAY :	0 - 6
orangish brown, silty, lateritic, plastic, compacted.	
FILLED DEPOSIT :	6 - 12
various colors, very coarse sand to medium gravel, angular to subrounded, poorly sorted, composed of quartz , sandstone , chert with granite fragments.	
SAND :	12 - 15
light brown, fine sand to coarse sand, subangular to subrounded, moderately sorted, composed of quartz , feldspars with chert fragments with laterite fragments.	
FILLED DEPOSIT :	15 - 17
various colors, very coarse sand to very fine gravel, angular to subrounded, moderately sorted, composed of quartz , feldspars , schist with phyllite with laterite fragments.	
SAND :	17 - 32
light brown, fine sand to coarse sand, subangular to subrounded, moderately sorted, composed of quartz , feldspars with chert fragments with laterite fragments.	

G0751CM396

BAN HUAI MAE TAO HAI PUBL MU THI 1 TAMBON NONG HAN AMPHOE SAN SAI
CHANGWAT CHIANG MAI

Depth 65 m. Aquifer type sand, gravel

Perforation interval 42-48, 54-60 m.

	Depth(m.) from-to
CLAY :	0 - 8
reddish brown, sandy, limonite stained, nonplastic, compacted.	
SAND & GRAVEL :	8 - 65
various colors, very coarse sand to fine gravel, subrounded to rounded, poorly sorted, consists of 60% gravel, 40% sand, composed of quartz.	

G0752CM397

BAN PA NGAE PUBLIC AREA MU THI 10 TAMBON NONG HAN AMPHOE SAN SAI
CHANGWAT CHIANG MAI

Depth 83 m. Perforation interval 57-63, 69-75 m.

	Depth(m.) from-to
CLAY :	0 - 23
yellowish brown, limonite stained, nonplastic, compacted.	

GRAVEL :	23 - 24
yellowish brown, very fine gravel to fine gravel, subangular, moderately sorted, composed of quartz.	
CLAY :	24 - 45
yellowish brown, limonite stained, nonplastic, compacted.	
SAMPLE LOST :	45 - 83

G0753CM398

BAN RONG KHUN PUBLIC AREA MU THI 7 TAMBON BAN MAE AMPHOE SAN PA TONG
CHANGWAT CHIANG MAI

Depth 18 m. Aquifer type gravel

Perforation interval 12-15 m.

	Depth(m.) from-to
GRAVEL :	0 - 5
various colors, very fine gravel to fine gravel, subangular, poorly sorted, composed of quartz.	
CLAY :	5 - 6
yellowish brown, silty, limonitic, nonplastic, compacted.	
GRAVEL :	6 - 18
yellowish white and light gray, fine gravel, subrounded to rounded, well sorted, composed of quartz , rock fragments, sandstone.	

G0757CM402

BAN MUANG PHI NONG MU THI 11 TAMBON MAKHAM LUANG AMPHOE SAN PA TONG
CHANGWAT CHIANG MAI

Depth 60 m. Aquifer type gravel, sand

Perforation interval 30-36, 48-54 m.

	Depth(m.) from-to
CLAY :	0 - 5
yellowish brown, silty, limonite stained, nonplastic, compacted.	
GRAVEL :	5 - 11
various colors, very fine gravel, subangular to rounded, well sorted, composed of quartz.	
GRAVEL :	11 - 15
various colors, very fine gravel to medium gravel, subangular to rounded, poorly sorted, composed of quartz.	
CLAY :	15 - 20
yellowish brown, silty, limonite stained, nonplastic, compacted.	
GRAVEL :	20 - 45
various colors, clayey, very fine gravel to medium gravel, subangular to rounded, poorly sorted, composed of quartz.	
SAND & GRAVEL :	45 - 60
yellowish brown, medium sand to very fine gravel, subangular, moderately sorted, consists of 60% sand, 40% gravel, composed of quartz.	

G0759CM404

WAT BAN PA LAN MU THI 2 TAMBON THUNG TOM AMPHOE SAN PA TONG
CHANGWAT CHIANG MAI

Depth 60 m. Aquifer type sand, gravel
Perforation interval 12-18, 24-30, 42-48 m.

	Depth(m.) from-to
CLAY :	0 - 14
brown and yellowish brown, silty, limonite stained, nonplastic, compacted.	
SAND :	14 - 17
yellowish white, medium sand to coarse sand, subangular, moderately sorted, composed of quartz.	
GRAVEL & SAND :	17 - 29
various colors, clayey, medium sand to very fine gravel, subangular, poorly sorted, consists of 60% gravel, 35% sand, composed of quartz.	
CLAY :	29 - 42
brown and yellowish brown, silty, limonite stained, nonplastic, compacted.	
GRAVEL & SAND :	42 - 45
various colors, clayey, medium sand to very fine gravel, subangular, poorly sorted, consists of 60% gravel, 35% sand, composed of quartz.	
CLAY :	45 - 60
brown and yellowish brown, silty, limonite stained, nonplastic, compacted.	

G0760CM405

BAN MAE KHONG PUBLIC AREA MU THI 9 TAMBON MAE KA AMPHOE SAN PA TONG
CHANGWAT CHIANG MAI

Depth 68 m. Aquifer type gravel
Perforation interval 30-33 m.

	Depth(m.) from-to
CLAY :	0 - 9
dark brown, silty, limonite stained, nonplastic, compacted.	
GRAVEL :	9 - 36
white and light gray, medium gravel, well rounded, well sorted, composed of quartz, chert, sandstone with igneous.	
CLAY :	36 - 42
dark brown, silty, limonite stained, nonplastic, compacted.	
GRAVEL :	42 - 65
yellowish brown, very fine gravel to fine gravel, rounded, poorly sorted, composed of quartz.	
SAND :	65 - 68
yellowish brown, clayey, gravelly, medium sand to coarse sand, angular to subangular, poorly sorted, composed of quartz.	

G0761CM406

BAN RONG NAM SCHOOL MU THI 7 TAMBON MAKHAM LUANG AMPHOE SAN PA TONG
CHANGWAT CHIANG MAI

Depth 54 m. Aquifer type gravel

Perforation interval 24-27 m.

	Depth(m.) from-to
CLAY : dark brown, limonite stained, nonplastic, compacted.	0 - 3
SAND : brown and dark brown, gravelly, medium sand to very coarse sand, subangular, moderately sorted, composed of quartz.	3 - 11
GRAVEL : various colors, coarse gravel, rounded to well rounded, well sorted, composed of quartz , feldspars.	11 - 17
CLAY : dark brown, limonite stained, nonplastic, compacted.	17 - 23
GRAVEL : various colors, coarse gravel, rounded to well rounded, well sorted, composed of quartz.	23 - 29
GRAVEL : various colors, coarse gravel, rounded to well rounded, well sorted, composed of quartz , feldspars.	29 - 44
GRAVEL : various colors, very fine gravel, subangular to subrounded, moderately sorted, composed of quartz.	44 - 54

G0762CM407

BAN MAE KUNG LUANG PUBLIC TAMBON THUNG TOM AMPHOE SAN PA TONG
CHANGWAT CHIANG MAI

Depth 53 m. Aquifer type gravel

Perforation interval 30-33 m.

	Depth(m.) from-to
CLAY : brown and yellowish brown, silty, limonite stained, nonplastic, compact.	0 - 23
GRAVEL : yellowish white, sandy, very fine gravel, rounded, moderately sorted, composed of quartz.	23 - 29
GRAVEL : various colors, very fine gravel to fine gravel, subangular to rounded, poorly sorted, composed of quartz.	29 - 35
GRAVEL : various colors, clayey, fine gravel to medium gravel, subrounded, moderately sorted, composed of quartz.	35 - 51
CLAY : brown and yellowish brown, silty, limonite stained, nonplastic, compact.	51 - 53

G0764CM409

BAN HANG DONG RAT MU THI 7 TAMBON HANG DONG AMPHOE HANG DONG
CHANGWAT CHIANG MAI

Depth 48 m. Aquifer type sand, gravel

Perforation interval 18-24,30-42 m.

	Depth(m.) from-to
CLAY :	0 - 11
brown and yellowish brown, silty, sandy, nonplastic.	
SAND :	11 - 26
brown and dark brown, medium sand to coarse sand, subangular, moderately sorted to well sorted, composed of quartz.	
GRAVEL :	26 - 45
various colors, sandy, clayey, very fine gravel, subangular, poorly sorted, composed of quartz.	
CLAY :	45 - 48
brown and yellowish brown, silty, sandy, nonplastic.	

G0765CM410

WAT CHAROEN RAT BAN RONG MU THI 5 TAMBON NONG KAEO AMPHOE HANG DONG
CHANGWAT CHIANG MAI

Depth 48 m. Aquifer type gravel

Perforation interval 36-39 m.

	Depth(m.) from-to
CLAY :	0 - 35
brown and yellowish brown, silty, limonite stained, nonplastic, compacted.	
GRAVEL :	35 - 42
white and yellowish white, sandy, very fine gravel, subangular to subrounded, moderately sorted, composed of quartz.	
CLAY :	42 - 48
brown and yellowish brown, silty, limonite stained, nonplastic, compacted.	

G0766CM411

WAT CHAI SATHAM (BAN KO) MU THI 3 TAMBON SOP MAE KHA AMPHOE HANG DONG
CHANGWAT CHIANG MAI

Depth 66 m. Aquifer type gravel, sand

Perforation interval 42-48,54-60 m.

	Depth(m.) from-to
SAND :	0 - 6
brown and dark brown, clayey, fine sand to medium sand, subangular, poorly sorted, composed of quartz.	
GRAVEL & SAND :	6 - 17
yellowish brown, clayey, medium sand to very fine gravel, subangular, poorly sorted, consists of 60% gravel, 35% sand, composed of quartz.	
GRAVEL :	17 - 29
white, very fine gravel, subangular, well sorted, composed of quartz.	

GRAVEL :	29 - 42
various colors, fine gravel to medium gravel, rounded to well rounded, moderately sorted, composed of quartz , feldspars with sandstone.	
GRAVEL :	42 - 47
white, very fine gravel, subangular, well sorted, composed of quartz.	
GRAVEL :	47 - 59
various colors, fine gravel to medium gravel, rounded, moderately sorted, composed of quartz , feldspars.	
SAND :	59 - 63
yellowish brown, gravelly, medium sand to coarse sand, subangular, moderately sorted, composed of quartz.	
GRAVEL :	63 - 66
various colors, fine gravel to medium gravel, rounded to well rounded, moderately sorted, composed of quartz , feldspars with sandstone.	

G0767CM412

BAN MAI DEN CHAI MU THI 5 TAMBON YANG KHRAM AMPHOE CHOM THONG
CHANGWAT CHIANG MAI

Depth 39 m. Aquifer type sand, gravel
Perforation interval 18-24,30-39 m.

	Depth(m.) from-to
GRAVEL :	0 - 11
brown, sandy, clayey, very fine gravel, angular to subangular, poorly sorted, composed of quartz.	
GRAVEL :	11 - 14
various colors, very fine gravel, subrounded to rounded, well sorted, composed of quartz.	
CLAY :	14 - 15
yellowish brown, silty, limonite stained, nonplastic, compacted.	
SAND & GRAVEL :	15 - 39
yellowish brown, medium sand to very fine gravel, subangular to subrounded, moderately sorted, consists of 70% sand, 30% gravel, composed of quartz.	

G0768CM413

BAN WAT BAN THAM MU THI 9 TAMBON BAN KLANG AMPHOE SAN PA TONG
CHANGWAT CHIANG MAI

Depth 42 m. Aquifer type gravel
Perforation interval 24-36 m.

	Depth(m.) from-to
GRAVEL :	0 - 2
brown, very fine gravel to fine gravel, subrounded to rounded, moderately sorted, composed of sandstone , quartz.	
GRAVEL :	2 - 6
brown, gravelly, fine gravel to medium gravel, subangular to subrounded, poorly sorted, composed of quartz , sandstone.	

CLAY :	6 - 20
yellowish brown, silty, limonite stained, nonplastic, compacted.	
GRAVEL :	20 - 24
various colors, very fine gravel, subrounded, moderately sorted, composed of quartz.	
GRAVEL :	24 - 29
various colors, fine gravel to medium gravel, rounded to well rounded, well sorted, composed of quartz , sandstone , igneous.	
GRAVEL :	29 - 33
various colors, very fine gravel, subangular to subrounded, poorly sorted to moderately sorted, composed of quartz.	
GRAVEL :	33 - 35
various colors, fine gravel to medium gravel, rounded, poorly sorted, composed of sandstone , chert , quartz.	
GRAVEL & SAND :	35 - 42
various colors, coarse sand to very fine gravel, subrounded to rounded, moderately sorted, consists of 70% sand, 30% gravel, composed of quartz.	

G0771CM416

BAN MAI SAN TUNG MU THI 8 TAMBON KHUANG PAO AMPHOE CHOM THONG
CHANGWAT CHIANG MAI

Depth 48 m. Aquifer type gravel
Perforation interval 33-45 m.

	Depth(m.) from-to
CLAY :	0 - 2
gray, silty, limonite stained, nonplastic, compacted.	
GRAVEL :	2 - 3
whitish yellow, sandy, very fine gravel, rounded to subrounded, well sorted, composed of quartz.	
CLAY :	3 - 17
gray, silty, limonite stained, nonplastic, compacted.	
GRAVEL :	17 - 18
whitish yellow, sandy, very fine gravel, rounded, well sorted, composed of quartz.	
CLAY :	18 - 24
gray, silty, limonite stained, nonplastic, compacted.	
GRAVEL & SAND :	24 - 29
light gray, coarse sand to very fine gravel, subrounded to rounded, well sorted, consists of 60% gravel, 40% sand, composed of quartz.	
CLAY :	29 - 30
light gray and greenish gray, silty, sandy, nonplastic, compacted.	
GRAVEL & SAND :	30 - 48
light gray, coarse sand to very fine gravel, subrounded to rounded, well sorted, consists of 60% gravel, 40% sand, composed of quartz.	

G0801CM446

WAT SAI MUN MU THI 2 TAMBON RIM TAI AMPHOE MAE RIM
CHANGWAT CHIANG MAI

Depth 38 m. Aquifer type gravel

Perforation interval 24-30 m.

	Depth(m.) from-to
CLAY :	0 - 6
brownish gray, silty, limonite stained, plastic, compacted.	
SAND :	6 - 11
light brown, gravelly, medium sand to coarse sand, subangular to subrounded, moderately sorted, composed of quartz , feldspars with chert fragments with granite fragments.	
GRAVEL :	11 - 38
light gray and gray, very fine gravel, subrounded, moderately sorted, composed of sandstone , chert , granite with diorite with quartz fragments.	

G0802CM447

WAT SAI MUN MU THI 6 TAMBON MAE FAEK AMPHOE SAN SAI
CHANGWAT CHIANG MAI

Depth 30 m. Aquifer type gravel

Perforation interval 18-24 m.

	Depth(m.) from-to
SAND :	0 - 6
light brown, gravelly, fine sand to coarse sand, subangular to subrounded, poorly sorted, composed of quartz , feldspars with chert fragments with sandstone fragments.	
GRAVEL :	6 - 30
light gray and gray, very fine gravel, subangular to subrounded, moderately sorted to well sorted, composed of sandstone , chert , diorite with granite fragments.	

G0803CM448

BAN MAE TAE SCHOOL MU THI 6 TAMBON MAE FAEK AMPHOE SAN SAI
CHANGWAT CHIANG MAI

Depth 23 m. Aquifer type gravel

Perforation interval 12-18 m.

	Depth(m.) from-to
GRAVEL:	0 - 2
brown, very fine gravel, subrounded, poorly sorted, composed of quartz , sandstone fragments.	
GRAVEL :	2 - 3
brownish gray, very fine gravel, subrounded, poorly sorted, composed of quartz , chert , sandstone fragments.	

GRAVEL : 3 - 5
brownish gray, fine gravel to medium gravel, subrounded, poorly sorted,
composed of sandstone , chert , quartz fragments.

GRAVEL : 5 - 23
gray, fine gravel, rounded, moderately sorted, composed of chert ,
diorite , sandstone

G0805CM450

WAT THIPWANARAM MU THI 7 TAMBON NONG HAN AMPHOE SAN SAI
CHANGWAT CHIANG MAI

Depth 23 m. Aquifer type gravel

Perforation interval 12-18 m.

CLAY : Depth(m.) from-to
0 - 3

light brownish gray, sandy, limonite stained, slightly plastic,
compacted.

GRAVEL : 3 - 8
light yellowish white and gray, sandy, very fine gravel, subangular,
moderately sorted, composed of quartz , chert , sandstone fragments,
loose.

GRAVEL : 8 - 23
white and dark gray, fine gravel to coarse gravel, rounded, poorly
sorted, composed of quartz , chert , sandstone, loose.

G0806CM451

BAN WAT SAN SAI MUN MU THI 3 TAMBON SAN SAI NOI AMPHOE SAN SAI
CHANGWAT CHIANG MAI

Depth 35 m. Aquifer type gravel

Perforation interval 21-27 m

CLAY : Depth(m.) from-to
0 - 2

brownish gray, silty, limonite stained, plastic, compacted.

CLAY : 2 - 3
gray, sandy, slightly limonite stained, slightly plastic, compacted.

CLAY & SAND : 3 - 6
light yellowish gray, limonite stained, gravelly, fine sand to medium
sand, consists of 60% clay, 35% sand, composed of quartz, plastic,
compacted.

GRAVEL : 6 - 35
white and dark gray, fine gravel to coarse gravel, rounded, poorly sorted,
composed of quartz , chert , sandstone.

G0807CM452

WAT KHAO THAEN NOI MU THI 3 TAMBON SAN SAI LUANG AMPHOE SAN SAI
CHANGWAT CHIANG MAI

Depth 41 m. Aquifer type gravel

Perforation interval 27-33 m.

	Depth(m.) from-to
CLAY : gray, silty, limonite stained, plastic, compacted.	0 - 3
GRAVEL : whitish gray and light brown, very fine gravel to coarse gravel, subrounded, poorly sorted, composed of quartz , chert , sandstone with laterite fragments with fragments.	3 - 11
CLAY : light yellowish brown, gravelly, sandy, slightly plastic, compacted.	11 - 14
GRAVEL : light yellowish brown, sandy, very fine gravel to fine gravel, subangular, moderately sorted, composed of quartz , sandstone with laterite fragments.	14 - 15
SAND : whitish yellow, fine sand to very coarse sand, subangular, poorly sorted, composed of quartz, slightly compacted.	15 - 17
GRAVEL : whitish gray and yellowish gray, clayey, fine gravel to medium gravel, subangular, poorly sorted, composed of quartz , sandstone , chert with laterite fragments with igneous fragments.	17 - 20
GRAVEL & CLAY : light yellowish gray and reddish gray, limonite stained, consists of 60% gravel, 40% clay, slightly plastic, moderately compacted.	20 - 27
GRAVEL : light yellowish brown, sandy, very fine gravel to medium gravel, subangular, moderately sorted, composed of quartz , sandstone with laterite fragments.	27 - 30
GRAVEL : white, medium gravel to coarse gravel, subrounded, moderately sorted, composed of quartz , sandstone , chert with laterite fragments with igneous fragments.	30 - 35
CLAY : grayish brown and dark brown, gravelly, slightly limonite stained, plastic, compacted.	35 - 38
GRAVEL : light yellowish brown, limonite stained, sandy, very fine gravel to fine gravel, subangular, moderately sorted, composed of quartz , sandstone with laterite fragments.	38 - 41

G0808CM453

WAT BAN MAE YOI MU THI 9 TAMBON SAN SAI NOI AMPHOE SAN SAI
CHANGWAT CHIANG MAI

Depth 41 m. Aquifer type gravel

Perforation interval 27-33 m.

	Depth(m.) from-to
CLAY :	0 - 2
brownish gray, silty, limonite stained, plastic, compacted.	
CLAY :	2 - 9
light yellowish gray, silty, gravelly, plastic, compacted.	
GRAVEL :	9 - 15
whitish gray and dark gray, sandy, very fine gravel to fine gravel, subangular, well sorted, composed of quartz with chert fragments with sandstone fragments.	
GRAVEL :	15 - 17
whitish gray and brownish gray, sandy, very fine gravel to medium gravel, subrounded, moderately sorted, composed of quartz , feldspars with laterite fragments.	
GRAVEL :	17 - 23
white and dark gray, medium gravel to very coarse gravel, subrounded, moderately sorted, composed of quartz , chert with igneous fragments.	
CLAY :	23 - 26
brownish gray, silty, limonite stained, plastic, compacted.	
GRAVEL :	26 - 29
whitish gray and dark gray, sandy, very fine gravel to fine gravel, subangular, very well sorted, composed of quartz with chert fragments with sandstone fragments.	
GRAVEL :	29 - 35
whitish gray and brownish gray, fine gravel to coarse gravel, subrounded, poorly sorted, composed of quartz , chert , sandstone with igneous fragments.	
SAND :	35 - 41
whitish brown, gravelly, medium sand to very coarse sand, subangular, poorly sorted, composed of quartz with chert fragments with feldspars fragments.	

G0809CM454

CHUM CHON BAN CHOENG DOI MU THI 3 TAMBON CHOENG DOI AMPHOE DOI SAKET
CHANGWAT CHIANG MAI

Depth 45 m. Aquifer type gravel

Perforation interval 15-21, 27-33 m.

	Depth(m.) from-to
CLAY :	0 - 3
pinkish gray, silty, gravelly, plastic, compacted.	
GRAVEL :	3 - 6
whitish gray, clayey, fine gravel to medium gravel, subangular, poorly sorted, composed of quartzite , quartz , feldspars.	

CLAY & SAND :	6 - 11
pinkish gray, limonite stained, gravelly, fine sand to medium sand, subangular, consists of 60% clay, 35% sand, composed of quartz, slightly plastic, moderately compacted.	
GRAVEL & CLAY :	11 - 17
light yellowish gray, sandy, fine gravel to medium gravel, subangular, consists of 65% gravel, 30% clay, composed of quartz with feldspars, slightly plastic, moderately compacted.	
GRAVEL :	17 - 23
light yellowish white and dark gray, medium gravel to coarse gravel, subrounded, moderately sorted, composed of quartz , siltstone , sandstone with chert fragments with shale fragments.	
CLAY & SAND :	23 - 30
brownish yellow, limonitic, limonite stained, fine sand to medium sand, subangular, consists of 65% clay, 30% sand, composed of quartz, slightly plastic, moderately compacted.	
CLAY & GRAVEL :	30 - 44
brownish yellow, limonite stained, sandy, fine gravel to coarse gravel, subangular, consists of 60% clay, 30% gravel, composed of quartz with rock fragments, plastic, moderately compacted.	
GRAVEL :	44 - 45
brownish gray, fine gravel to coarse gravel, subangular, moderately sorted, composed of quartz , feldspars with sandstone fragments with laterite fragments, loose.	

G0810CM455

RONG THAN PUBLIC AREA MU THI 1 TAMBON BAN KLANG AMPHOE SAN PA TONG
CHANGWAT CHIANG MAI

Depth 62 m. Aquifer type gravel, sand
Perforation interval 33-39, 51-57 m.

	Depth(m.) from-to
GRAVEL :	0 - 11
yellowish brown and brown, clayey, limonite stained, very fine gravel to fine gravel, angular to subangular, poorly sorted, composed of quartz , sandstone fragments.	
SAND :	11 - 17
brown, clayey, gravelly, medium sand, moderately sorted, composed of quartz.	
GRAVEL :	17 - 32
various colors, sandy, very fine gravel to fine gravel, subangular, moderately sorted, composed of quartz , chert with shale fragments, size increased with depth.	
GRAVEL & SAND :	32 - 41
various colors, limonite stained, very coarse sand to very fine gravel, subangular, moderately sorted, consists of 50% gravel, 50% sand, composed of quartz , sandstone , shale fragments.	

SAND : 41 - 44
brown, clayey, sandy, very coarse sand, moderately sorted,
composed of quartz.

SAND : 44 - 62
various colors, gravelly, limonite stained, medium sand to coarse sand,
subangular, moderately sorted, composed of quartz , chert,
size decreased with depth.

G0811CM456

WAT NONG PHAN NGAEN MU THI 6 TAMBON YUWA AMPHOE SAN PA TONG
CHANGWAT CHIANG MAI

Depth 54 m. Aquifer type gravel, sand

Perforation interval 36-48 m.

GRAVEL : Depth(m.) from-to
0 - 5

brown, sandy, very fine gravel to fine gravel, subangular,
moderately sorted, composed of quartz , sandstone fragments, loose.

GRAVEL : 5 - 9

brown, clayey, sandy, very fine gravel to fine gravel, subangular,
poorly sorted, composed of quartz , sandstone , shale fragments,
slightly compacted.

SAND : 9 - 12

brown and gray, gravelly, coarse sand to very coarse sand,
subangular, moderately sorted, composed of quartz with shale
fragments with laterite fragments, loose.

GRAVEL : 12 - 15

brown, clayey, sandy, very fine gravel to fine gravel, subangular,
poorly sorted, composed of quartz , sandstone , shale fragments
with laterite presented in places.

SAND : 15 - 18

various colors, gravelly, medium sand to coarse sand, well sorted,
composed of quartz with shale fragments with laterite fragments.

GRAVEL : 18 - 23

various colors, sandy, very fine gravel, subangular, well sorted,
composed of quartz with shale fragments with laterite fragments.

SAND : 23 - 27

various colors, gravelly, medium sand to very coarse sand, subangular,
moderately sorted, composed of quartz with shale fragments with
laterite fragments.

SAND : 27 - 30

yellowish brown, clayey, gravelly, fine sand to coarse sand,
poorly sorted, composed of quartz with shale fragments with
laterite fragments.

SAND : 30 - 33

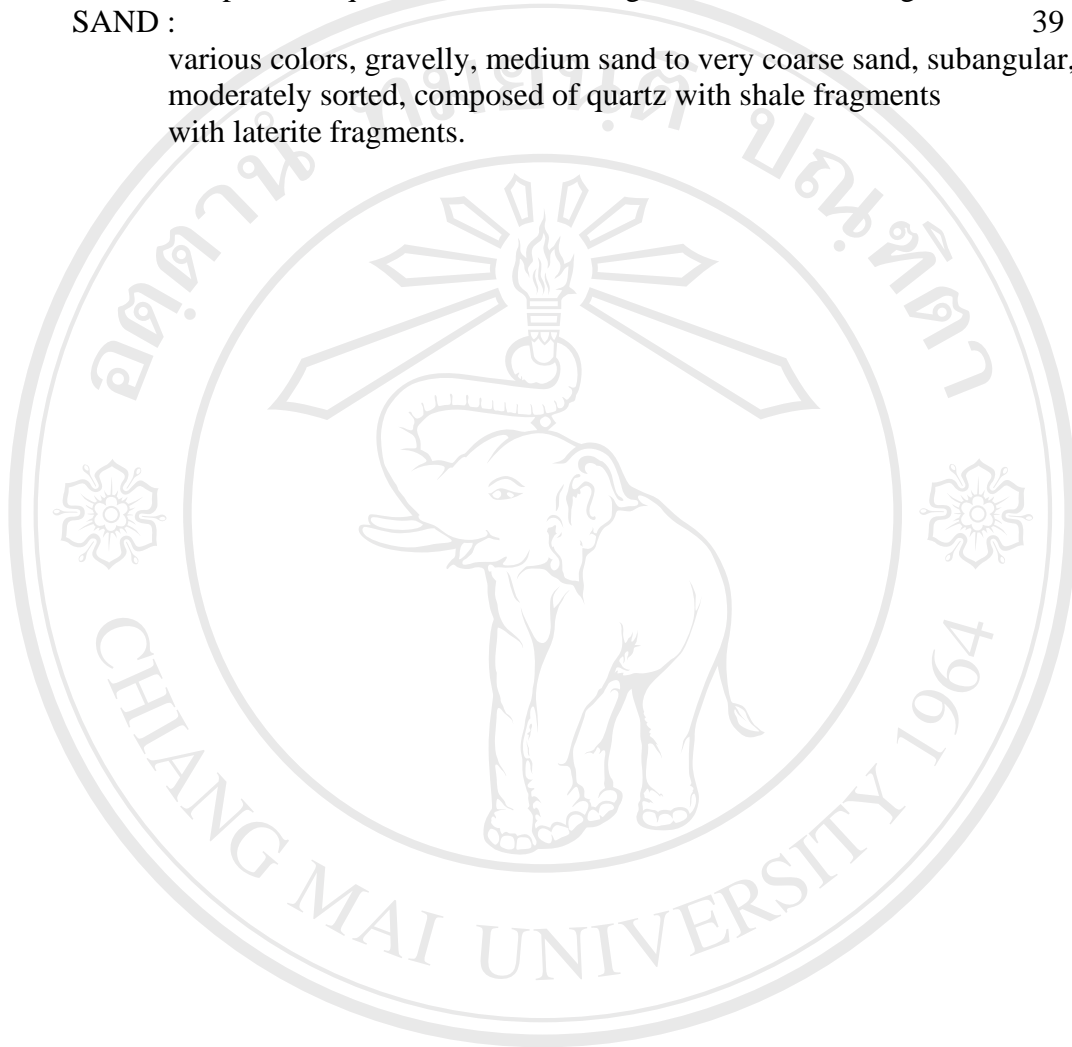
brown and gray, gravelly, coarse sand to very coarse sand, subangular,
moderately sorted, composed of quartz with shale fragments
with laterite fragments.

GRAVEL & SAND : 33 - 39

various colors, limonite stained, medium sand to very fine gravel, subangular, poorly sorted, consists of 50% gravel, 50% sand, composed of quartz with laterite fragments with shale fragments.

SAND : 39 - 54

various colors, gravelly, medium sand to very coarse sand, subangular, moderately sorted, composed of quartz with shale fragments with laterite fragments.



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