

Regione
Emilia-Romagna



Provincia di
Ferrara



Comune di
Mesola



PARCO FOTOVOLTAICO E RELATIVE OPERE DI CONNESSIONE ALLA RTN DI POTENZA PARI A 6,29 MW NEL COMUNE DI MESOLA (FE).

PROGETTISTA INCARICATO:

Ing. Giovanni Cis

Tel. 3490737323

Pec: giovanni.cis@ingpec.eu



Ing. Francesca Domeneghetti

Tel. 3343716779

Pec: planum@legalmail.it



Dott. Pian. Alberto Azzolina

Tel. 3476498669

Pec: planum@legalmail.it



Scala

-

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e indagini geotecniche

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TECNICI COINVOLTI

Ing. Giovanni Cis

Ing. Francesca Domeneghetti

Ing. Sara Domeneghetti

Ing. Rossana Basileo

Dott.ssa Geol. Sara Bedeschi

Dott. Pian. Alberto Azzolina

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SOCIETA' PROPONENTE:

OPR SUN 31 SRL

Via Ceresio, 7 - 20154 Milano

PEC: oprsun31@legalmail.it

REA: MI - 2702823 P.iva 13086470963

SOCIETA' di PROGETTAZIONE:

RENVALUE SRL

Via Ceresio, 7 - 20154 Milano

P.iva 05418080288

PLANUM SRL

Via Daniele Manin, 53 - 30174 Venezia

P.iva 04480300278

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**COMUNE DI MESOLA
PROVINCIA DI FERRARA**

**PARCO FOTOVOLTAICO E RELATIVE OPERE DI
CONNESSIONE ALLA RTN DI POTENZA PARI A 5,12 MW
NEL COMUNE DI MESOLA (FE)**

Proponente

OPR SUN 31 SRL

Oggetto

**RELAZIONE DI MODELLAZIONE GEOLOGICA, SISMICA
E DI PRIME CONSIDERAZIONI GEOTECNICHE**

rev. 0

del 25/10/2023

Tecnico

Dott.ssa Geol. Sara Bedeschi
Via Mameli, 13
48011 – Alfonsine (RA)
cell. 340 2756654
email: sarabedeschi.geologo@gmail.com
pec: sara.bedeschi@pec.epap.it

Proponente

OPR SUN 31 SRL
Via Ceresio, 7
20154 Milano (MI)

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1. PREMESSA

Su incarico ricevuto dalla Planum s.r.l., si redige la presente Relazione geologica, sismica e di prime considerazioni geotecniche, relativa al progetto di parco fotovoltaico e relative opere di connessione alla RTN di potenza pari a 5,12 MW proposto dalla OPR SUN 31 SRL.

La Società intende realizzare nel Comune di Mesola (FE) impianto fotovoltaico per la produzione di energia da fonte solare, di potenza di picco pari a 6.291,04 kWp, con tracker ad inseguimento mono-assiale (est-ovest), nel Comune di Mesola (Provincia di Ferrara) e delle opere connesse ed infrastrutture indispensabili alla costruzione e all'esercizio dell'impianto.

L'impianto in questione sarà del tipo a pannelli fotovoltaici su strutture ad inseguimento infisse nel terreno, esso sarà essenzialmente composto dai seguenti elementi:

- Strutture di sostegno ad inseguimento mono assiale "tracker";
- Pannelli fotovoltaici;
- Quadri Elettrici BT;
- Inverter di stringa per la conversione CC/CA;
- Cabina utente di misura e di trasformazione BT/MT;
- Cabina Consegna MT;
- Fanno parte dell'impianto elementi ausiliari e complementari:
- Impianti ausiliari;
- Sistema di sicurezza e sorveglianza;
- Viabilità di accesso e strade di servizio;
- Recinzione perimetrale;

Il posizionamento delle apparecchiature e delle strutture dell'impianto, nonché il tracciamento delle opere edili, è stato eseguito partendo dalla superficie complessivamente disponibile all'interno dell'area adibita ad attività produttive.

1.1 AREA IN ESAME

L'area oggetto di intervento per la realizzazione dell'impianto fotovoltaico è ubicata nel comune di Mesola in provincia di Ferrara, in un terreno di circa 9,27 ha, sito nei pressi della zona produttiva.

Nello specifico il sito si trova, in un raggio di entro 500 metri dal terreno censito industriale. Il sito risulta progettato su un lotto per il quale il è prevista l'installazione di tracker inseguitori. L'impianto è accessibile da S.P. 68.

Le coordinate geografiche di riferimento, latitudine e longitudine (WGS84) sono:

- Latitudine Nord del centro: 44,92866722219214
- Longitudine Est del centro: 12,117174640701682

Il terreno è censito al Foglio: 4, Mappali: 93,95.

L'impianto sarà connesso alla rete e-distribuzione tramite la realizzazione di una nuova cabina di consegna collegata in antenna da cabina primaria AT/MT ARIANO.



Figura 1 - Inquadramento parco fotovoltaico su ortofoto Google Earth © in scala libera.

1.2 SCOPO DELLA PRESENTE DOCUMENTAZIONE

La presente relazione di Modellazione Geologica e sismica è basata su di una campagna di indagini atta ad acquisire le necessarie conoscenze geologiche, litostratigrafiche, geotecniche e di caratterizzazione sismica dell'area in esame (anche sulla base di riscontri su dati relativi ad aree prossime ed assimilabili quella in esame, conoscenze in possesso di bibliografia).

La presente modellazione è stata condotta nello spirito delle NTC vigenti e dell'O.P.C.M. 3274/2003 e seguenti.

1.3 INDAGINI GEOGNOSTICHE DI RIFERIMENTO

Si è eseguita, in accordo con il gruppo di progettazione, una indagine stratigrafica, sismica e geotecnica locale che è consistita nell'esecuzione di:

- n. 4 prove CPTU;
- n. 2 indagine sismica di tipo tromografico (TR).

Per l'espletamento delle prove sono stati utilizzati:

- CPTe e CPTU: penetrometro Tecnopenta;
- Indagine tromografica TR: tromografo TROMINO ® e l'apposito software GRILLA ® di costruzione Micromed.

Ci si è ulteriormente basati su alcune indagini stratigrafiche e penetrometriche di bibliografia come raffronto a quanto puntualmente rilevato.



Figura 2 – Perimetro del parco fotovoltaico e ubicazione dei punti di indagine su ortofoto Google Earth © in scala libera.

2. QUADRO NORMATIVO DI RIFERIMENTO

Per l'esecuzione dell'incarico si è fatto riferimento alle seguenti leggi nazionali e regionali:

- D.M. 11/03/1988 "Norme tecniche riguardanti le indagini sui terreni e sulle rocce, la stabilità dei pendii naturali e delle scarpate, ed i criteri generali e le prescrizioni per la progettazione, l'esecuzione e il collaudo delle opere di sostegno delle terre e delle opere di fondazione" in particolare per quanto attiene alla sezione H;
- L. 02/02/1974 n. 64 "Provvedimenti per le costruzioni con particolare riferimento alle prescrizioni per le zone sismiche" (art.13);
- D.M. 16/01/1996 "Norme tecniche per le costruzioni in zone sismiche" in particolare al punto C.6.1.1.: Azioni orizzontali – coefficiente di fondazione "ε";
- O.P.C.M. 3274/2003 "Primi elementi in materia di criteri generali per la classificazione sismica del territorio nazionale e di normative tecniche per le costruzioni in zona sismica" e s.m.i. e decreti attuativi;
- L.R. 30/10/2008 n.19 "Norme per la riduzione del rischio sismico" e s.m.i. e circolari illustrative;
- D.G.R. 1373/2011 "Atto di indirizzo recante l'individuazione della documentazione attinente alla riduzione del rischio sismico necessaria per il rilascio del permesso di costruire e per gli altri titoli edilizi, alla individuazione degli elaborati costitutivi e dei contenuti del progetto esecutivo riguardante le strutture e alla definizione delle modalità di controllo degli stessi, ai sensi dell'art. 12, comma 1, e dell'art. 4, comma 1, della L.R. n. 19 del 2008;
- D.M.17/01/18 "Norme tecniche per le costruzioni";
- D.G.R. 630/2019 "Atto di coordinamento tecnico sugli studi di microzonazione sismica per la pianificazione territoriale e urbanistica (artt. 22 e 49, L.R. n.24/2017)" e smi.

Si è fatto altresì riferimento a varia e numerosa bibliografia tecnica.

3. VINCOLISTICA

Per la valutazione degli strumenti di pianificazione sovraordinati che quelli comunali si rimanda allo Studio di Impatto Ambientale, in particolare si fa riferimento al documento RV-FV-ER-37-R01-00.

4. RELAZIONE GEOLOGICA SULLE INDAGINI, CARATTERIZZAZIONE E MODELLAZIONE GEOLOGICA DEL SITO

4.1 ASSETTO GEOLOGICO GENERALE

L'assetto geologico complessivo dell'area in esame è legato all'evoluzione del grande bacino subsidente padano di riempimento detritico ed all'evoluzione tettonica compressiva e convergente fra il dominio Sud- alpino ed il dominio appenninico. Ciò ha comportato la formazione di un complesso sistema di pieghe e faglie, orientate da NNO a SSE, ovvero da ONO a ESE o ancora Nord-Sud. Per la porzione settentrionale della Provincia di Ferrara e quindi anche per il territorio del Comune di Mesola, nonché ovviamente per l'area in esame la situazione può essere descritta in maniera molto semplificata con la presenza di un notevole "pacco" di deposizioni alluvionali sciolte e/o fini, d'età Pleistocenica (dal Pleistocene Medio - Olocene: 0,45 Milioni di anni-presente, al Pleistocene Medio-Superiore: 4,1-1,8 Milioni di anni) sovrastanti le strutture appenniniche sepolte, d'età Miocenica (2,4-5,4 Milioni di Anni fa), quali sovrascorrimenti e/o fronti dai accavallamento (dalla successione carbonatica Meso-Cenozoica fino al Basamento - Accavallamento profondo d'età Post-Tortoniana).

Considerato che nel tempo si sono registrate ricadute sismiche locali, tali strutture risultano essere potenziali sedi di riattivazione di eventi sismici dell'area padana e dell'area in esame, e se ne darà rapido conto al paragrafo 6 "Relazione sulla modellazione sismica concernente la pericolosità sismica di base del sito di costruzione".

Nelle vicinanze dell'area di studio si rilevano sovrascorrimenti attivi nel basamento e nella successione carbonatica e strutture neogeniche senza evidenza di attività recente.

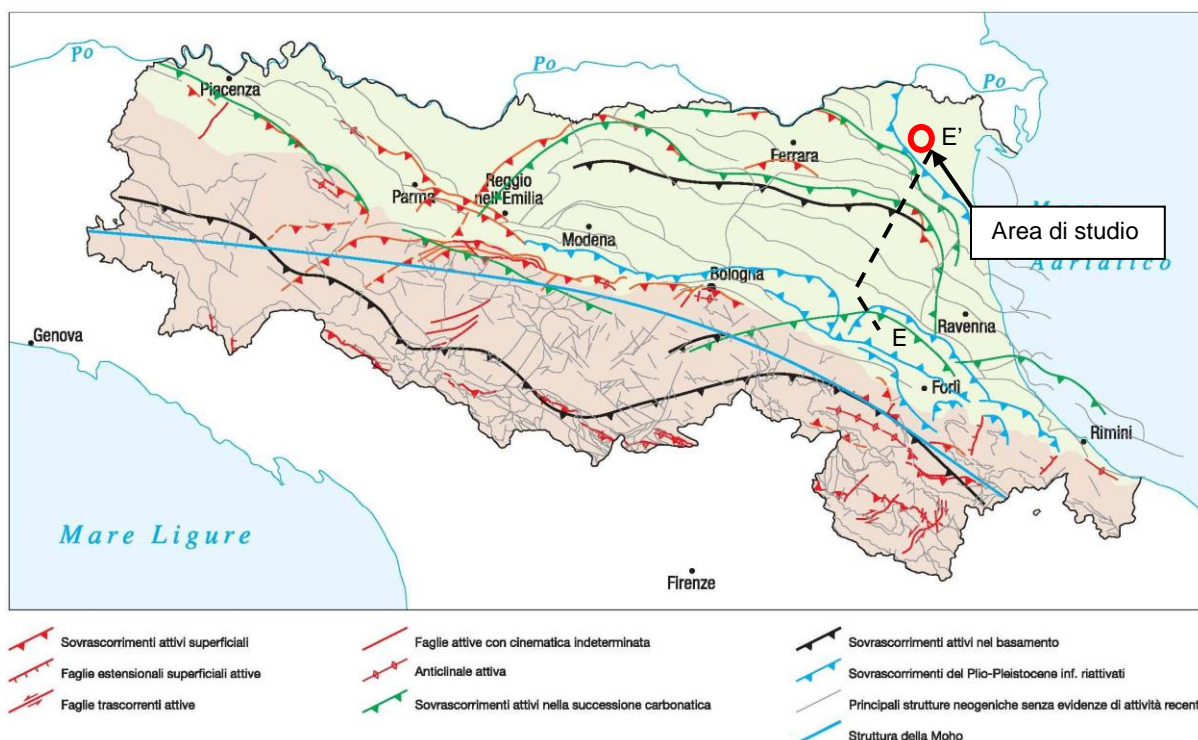


Figura 3 – Schema geologico tratto Carta Sismotettonica dell'Emilia-Romagna

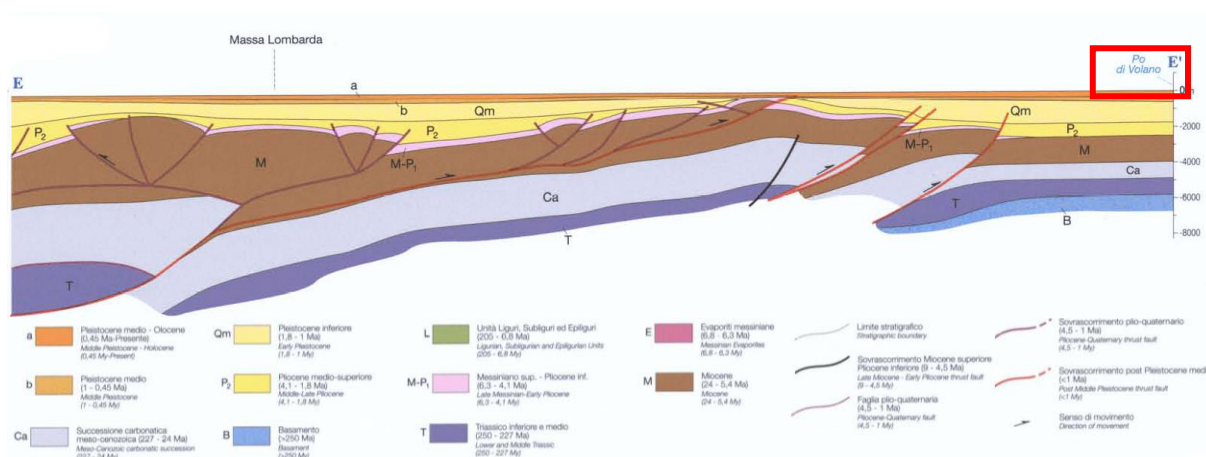


Figura 4 – Sezione geologica E-E', con l'andamento delle pieghe e delle faglie del substrato

4.2 ASSETTO GEOLOGICO E GEOMORFOLOGICO DELL'AREA IN ESAME

Dal punto di vista geologico latu- sensu e sulla base delle apposite cartografie di riferimento locale e regionale, è possibile ascrivere i terreni di fondazione, caratterizzanti l'area in esame, ai terreni sciolti sabbio-limosi di conoide e terrazzo alluvionale.

Dalla Carta Geologica di pianura dell'Emilia – Romagna si evince come per l'area in oggetto si trova su depositi di natura granulare ovvero sabbie medie e fini in strati di spessore decimetrico passanti lateralmente ed intercalate a sabbie fini e finissime limose, subordinatamente limi argillosi; localmente sabbie medie e grossolane in corpi lenticolari e nastriformi.

Tali depositi sono ascrivibili a depositi di canale e argine prossimale depositati del Po di Goro e di Volano quando divagavano in quei territori.

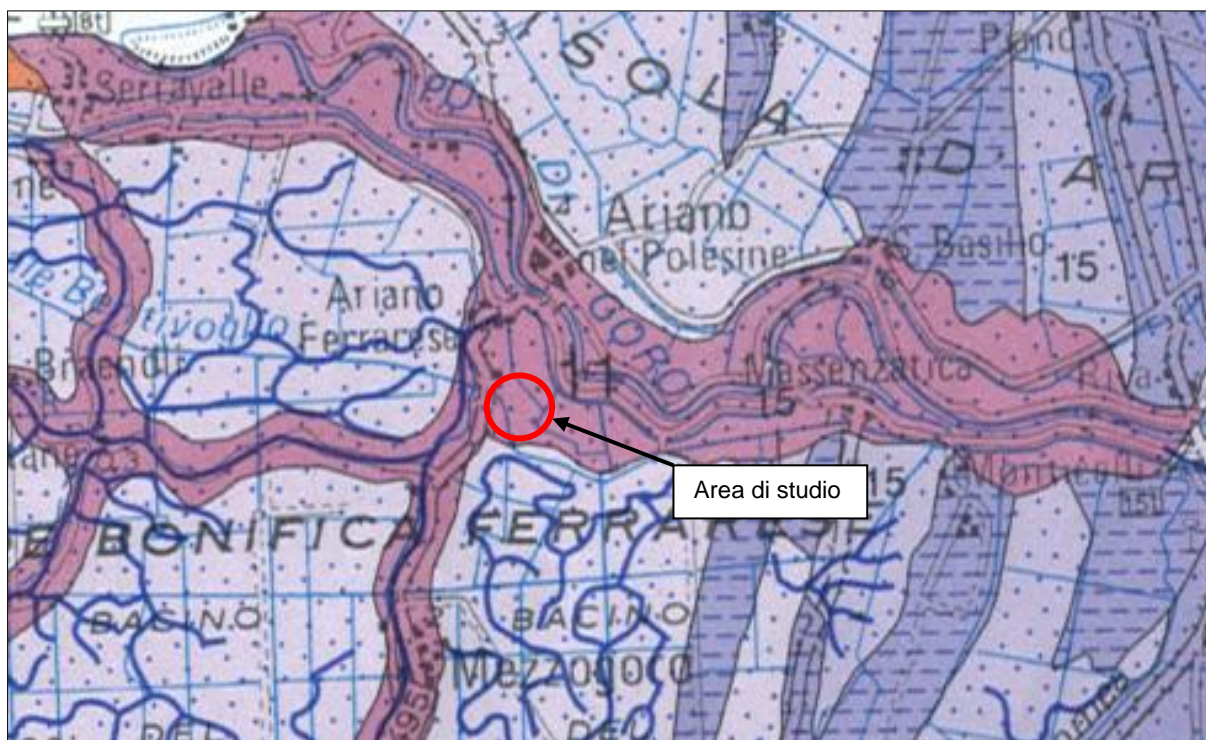


Figura 5 – Estratto della Carta geologica di pianura in scala libera

La Carta Geologica dell'Emilia-Romagna in scala 1: 10 000 (disponibile dal sito del Servizio Geologico, Sismico e dei Suoli) indica che l'area di studio ricade in ambiente di piana alluvionale e nello specifico al limite tra litotipi sabbio-limosi tipici di deposito di canale distributore, argine e rotta e argille limose con torba tipici di deposito di palude in area interdistributrice. Sull'area inoltre viene evidenziata la presenza di una traccia antica certa di canale di area interdistributrice e una traccia certa di ventaglio di esondazione.

L'unità geologica è la AES8a, ovvero l'unità di Modena, in particolare trattasi del Sintema emiliano-romagnolo superiore - Subsintema di Ravenna. La AES8a è un'unità costituita da ghiaie e ghiaie sabbiose o da sabbie con livelli e lenti di ghiaie ricoperte da una coltre limoso argillosa discontinua, in contesti di conoide alluvionale, canale fluviale e piana alluvionale intravalliva. Al tetto l'unità presenta localmente un suolo calcareo poco sviluppato di colore grigio-giallastro.

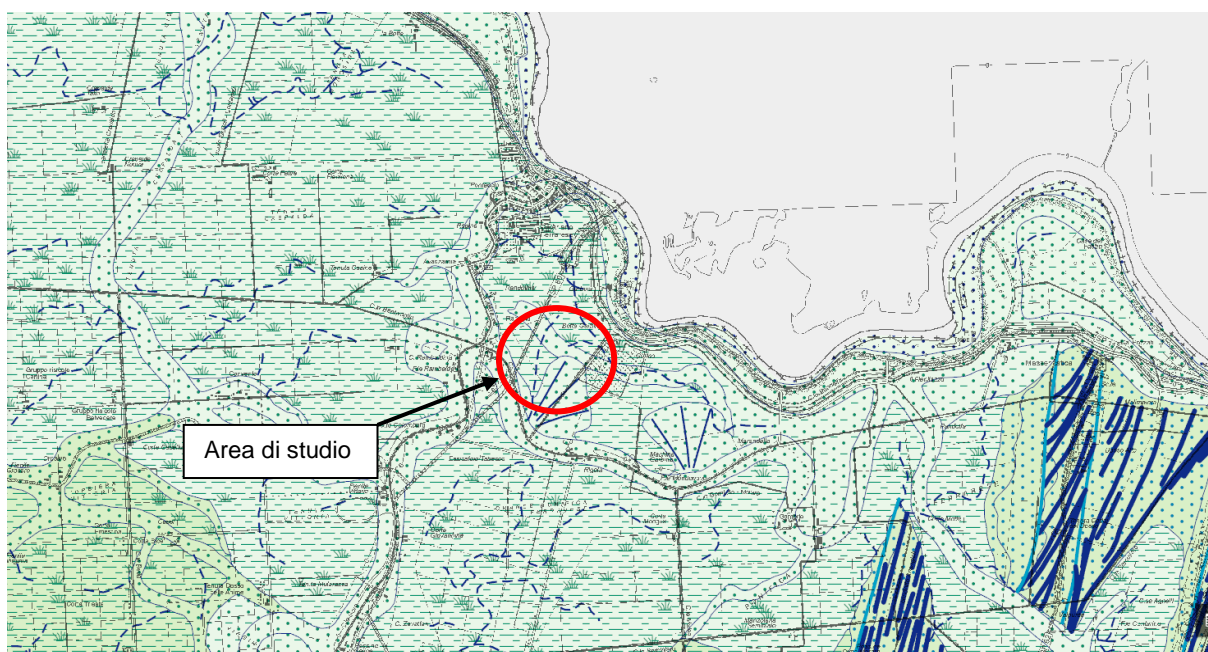


Figura 6 – Estratto della Carta geologica dell'Emilia-Romagna

La condizione litologica superficiale, riscontrata in fase di indagine penetrometrica, è pienamente conforme con quanto indicato dalle cartografie tematiche di cui sopra che sostanzialmente considerano la litologia di superficie ovvero dei primi decimetri di spessore. Dall'analisi delle risultanze delle prove penetrometriche eseguite e delle indagini bibliografiche, nella sequenza deposizionale si è potuto rilevare che:

- CPTU1, CPTU2 e CPTU3 (eseguite nell'area caratterizzata da depositi di palude in area interdistributrice) si rileva sostanzialmente la presenza di litotipi argillo-limosi fino a -10,00/-11,00 m dal p.c. e a seguire una alternanza di litotipi maggiormente sabbiosi e sabbio-limosi intercalati a livelli argillo-limosi.
- CPTU4 (eseguita nell'area caratterizzata da depositi di canale distributore, argine e rotta) si rileva sostanzialmente la presenza di litotipi argillo-limosi fino a -4,00 m dal p.c. e a seguire

una alternanza di litotipi maggiormente sabbiosi e sabbio-limosi intercalati a livelli argillo-limosi.

4.3 ASSETTO IDROLOGICO ED IDROGEOLOGICO LOCALE

L'area è sita a circa 500 m a Sud-Ovest del canale Pandolfi e a 700 m a Sud-Ovest del Po di Goro. Non si rilevano altri corpi idrici se non fossi e scoli in quanto l'area si trova in area agricola.

La falda freatica locale, o almeno la prima falda sospesa, è stata rilevata, nel foro di esecuzione delle CPTU alla profondità di circa -1,00 m dal p.c.

Durante la fase esecutiva dei lavori di realizzazione della rete scolante dell'impianto si ritiene opportuno approfondire il tema al fine di avere la conferma di quanto sopra esposto.

Per l'area in esame è normale attendersi oscillazioni della falda (che caratterizzano un'ampia fascia della Pianura Padana). È cioè naturale/normale registrare variazioni del livello della falda fra i periodi estivi/caldi e "siccitosi" e quelli invernali/freddi e piovosi. Il regime delle precipitazioni atmosferiche ed il regime termico locale determina la più o meno veloce ricarica (per semplice infiltrazione diretta) o depressione (relativamente ai fenomeni evapo-traspirativi) della prima falda freatica locale. Dalla misura sopra riportata si potranno registrare nei periodi caldi/siccitosi un approfondimento del livello della prima tavola d'acqua rispetto al piano campagna. È plausibile, pertanto, ipotizzare una risalita sino a profondità di -1,00 m circa dal p.c., che rappresenta un dato comunque molto penalizzante, ed un abbassamento sino a 4,00 m circa dal p.c.

Chiaramente di tali variazioni della prima falda occorrerà tenere debito conto relativamente alla progettazione delle strutture previste sull'area in esame in quanto potranno originare fenomeni di rigonfiamento e/o di ritiro dei terreni di fondazione, poiché le variazioni del livello della falda potrebbero svilupparsi anche non in forma ciclica e/o regolare, anche le eventuali variazioni di volume potrebbero avere andamento imprevedibile. Le variazioni del livello della prima tavola d'acqua potranno poi sensibilmente modificare le caratteristiche geotecniche dei terreni interessati a tale variazione. L'imbibimento infatti, sviluppandosi su terreni superficiali che presentano una non trascurabile frazione "coesiva" che è per natura più sensibile a tale fenomeni, potrà comunque diminuire le caratteristiche di compressibilità dei terreni.

Relativamente alle falde profonde, queste non verranno ad essere interessate e/o modificate dalla realizzazione delle opere in oggetto.

4.4 LITOSTRATIGRAFIA DELL'AREA IN ESAME E PRIME CONSIDERAZIONE GEOTECNICHE DI MASSIMA

Sulla base della prova eseguita, si riportano le seguenti caratteristiche litostratigrafiche caratterizzanti, dal punto di vista geologico, l'area in esame.

- **Orizzonte 1:** da -0,00 m a -10,00/-11,00 m dal p.c.

Litotipi argillosi e limo-argillosi con probabile presenza di sostanza organica/torba a componente coesiva prevalente. Nella CPTU4 lo spessore risulta raggiungere soltanto la quota di circa -4,00 m dal p.c.

(a conferma della presenza di un ventaglio di rotta fluviale). I valori di Q_c sono mediamente compresi tra 5 e 15 kg/cm²

- **Orizzonte 2:** da -10,00/-11,00 m a -20,00 m dal p.c.

Alternanza di litotipi maggiormente sabbiosi e sabbio-limosi intercalati a livelli argillo-limosi con probabile presenza di sostanza organica/torba a componente sia granulare che coesiva. Si rileva la presenza prevalente di spessori sabbiosi e limo-sabbiosi nella CPTU2 e CPTU4. I valori di Q_c sono mediamente compresi tra 40 e 80 kg/cm² negli spessori maggiormente limo-sabbiosi e tra 10 e 20 kg/cm² negli spessori maggiormente argillo-limosi

Tale assetto litostratigrafico si inserisce correttamente nel quadro geologico ed evolutivo (geomorfologico) locale già descritto, come confermato anche dall'analisi delle indagini bibliografiche in possesso nelle dintorni dell'area di studio.

Data la presenza dei terreni coesivi, ovvero di argille e limi, è perciò normale attendersi compressibilità/cedevolezza elevata ed una maturazione dei cedimenti che potrà avvenire in tempi anche lunghi. Circa l'entità dei cedimenti e le metodologie e tempistiche di maturazione degli stessi, allo stato attuale delle conoscenze, non avendo a disposizione dati edometrici di laboratorio (derivanti da analisi dirette su campioni di terreno indisturbati raccolti in loco), non è possibile aggiungere niente di più preciso; tale tematica dovrà comunque essere attentamente considerata. In tutti i casi occorrerà attentamente valutare le modalità di interazione fra la struttura da realizzare, le derivanti sovrappressioni che saranno trasmesse ai terreni fondali e le caratteristiche geotecniche dei terreni stessi.

Tale assetto litostratigrafico si inserisce correttamente nel quadro geologico ed evolutivo (geomorfologico) locale già descritto, come confermato anche dall'analisi delle indagini bibliografiche, la cui ubicazione è riportata in allegato.

Nel dettaglio si può osservare quanto segue:

- I litotipi coesivi sono quelli che, dal punto di vista di un intervento di edificazione caratterizzano l'area in esame dal punto di vista fisico-geotecnico, per tali litotipi le condizioni sature (non drenate, $\phi = 0$) caratterizzanti l'area in esame costituiscono particolare aggravio per la stabilità delle strutture e/o per l'insorgenza dei cedimenti, nonché per la prolungata durata nel tempo dello svilupparsi di tali cedimenti. Infatti la natura stessa dei litotipi argillosi non consente la rapida dissipazione delle sovrappressioni (date dai carichi gravanti). Il tema dei cedimenti secondari/o a lungo termine dovrà essere attentamente considerato.
- Le eventuali e normali/naturali variazioni del livello della falda freatica potranno dar origine a fenomeni di rigonfiamenti e ritiri per i terreni in oggetto. Si ritiene che tale fenomeno debba essere tenuto in considerazione e controllato. Le strutture fondali dovranno essere sufficientemente rigide da supportare le suddette variazioni di volume (che potranno svilupparsi in maniera "ritmica" o regolare, ma anche in maniera imprevedibile) e le strutture in elevazione dovranno essere dotate di accorgimenti che consentano di non danneggiarsi (anche relativamente a finiture e/o impianti) in caso delle citate variazioni di volume dei terreni fondali.

- Le variazioni del livello della falda superficiale potranno anche causare variazioni delle caratteristiche geomeccaniche dei terreni interessati a queste stesse variazioni, che normalmente si svilupperanno in penalizzazioni in caso di imbibimento, ovvero di avvicinamento del livello della falda al p.c.
- Nel complesso, si ritiene che l'area in esame non presenti rischi derivanti da fenomeni di liquefazione all'atto di un eventuale episodio sismico se non trascurabili. L'argomento verrà comunque trattato all'apposito punto della presente relazione, al quale si rimanda.

Per una puntuale individuazione della stratigrafia rilevata si rimanda alle apposite schede e per una puntuale individuazione della stratigrafia rilevata si rimanda all'allegato cui sono presenti le schede di restituzione stratigrafica. Più approfondite considerazioni di natura geotecnica sono proprie e saranno quindi riportate nella successiva fase di Modellazione Geotecnica.

È comunque raccomandabile porre attenzione, durante la fase esecutiva alla validazione del modello testè descritto. E cioè verificare se quanto rilevabile anche solo superficialmente, in fase di scavo delle eventuali strutture fondali sia sufficientemente aderente a quanto descritto. Nel caso invece si individuasse la presenza di situazioni anomale localizzate e non previste, sarà opportuno e doveroso procedere ad una rivisitazione critica del modello proposto e/o individuare opportuni provvedimenti atti a "recuperare" la funzionalità di ogni eventuale fase progettuale/ realizzativa.

5. PRIME CONSIDERAZIONI GEOTECNICHE SULLE INDAGINI, CARATTERIZZAZIONE E MODELLAZIONE DEL VOLUME SIGNIFICATIVO DI TERRENO

Il piano di posa delle strutture fondali dovrà essere posto al di fuori della fascia di terreno di fondazione che può significativamente risentire e/o essere interessata dalle oscillazioni (anche dal fenomeno del gelo, che per le latitudini ed il clima in questione può determinare i propri effetti sino alla profondità di 60 cm circa dal p.c.) del contenuto di acqua. Per l'area oggetto della presente relazione occorre ricordare la superficialità della falda durante il periodo invernale/piovoso. Quindi se gli scavi per realizzare le strutture fondali dovessero superare la profondità di -1,00 m dal p.c. potrebbero, se eseguiti in periodo piovoso, dover essere eseguiti in falda o comunque in presenza di acqua ed occorrerà provvedere al mantenimento degli stessi "fronti" di scavo (seppure di modestissima altezza), durante l'esecuzione delle stesse strutture fondali. Occorrerà poi tenere in conto della sottospinta idraulica e del fatto che tale sottospinta potrà essere variabile ovvero anche del tutto assente. Occorrerà infatti tenere conto delle naturali/normali oscillazioni della falda, tali oscillazioni potranno essere indicativamente comprese fra 1,00 e 4,00 m circa dal p.c. e oltre (come riportato al § 4 al quale si rimanda). Le oscillazioni potranno seguire o meno il regime termico e pluviometrico atmosferico. La variazione del livello della falda causerà ritiri e rigonfiamenti (anche centimetrici) degli stessi terreni di fondazione e potrà notevolmente variare le caratteristiche geomeccaniche dei terreni che subiranno tali effetti. Dette variazioni si svilupperanno in maniera più o meno ciclica, si necessiterà quindi di opportuna rigidità strutturale (soprattutto fondale) e di strutture in elevazione che non si danneggino, nemmeno relativamente a finiture e/o impianti. Le variazioni di livello della falda porteranno poi anche a sensibili variazioni delle caratteristiche geotecniche dei terreni che subiscono tali variazioni. Ci si potrà pertanto attendere qualche variazione rispetto ai valori dei parametri geotecnici di cui al paragrafo 5.2 - Caratterizzazione meccanica dei terreni e definizione dei parametri geotecnici caratteristici. Questo dovrà essere opportunamente preso in considerazione in fase di progettazione esecutiva geotecnica dell'impianto.

Per una più attenta descrizione dell'assetto idrogeologico locale si rimanda al paragrafo 4.3 - Assetto idrologico ed idrogeologico locale.

5.1 CARATTERIZZAZIONE FISICA DEI TERRENI

Le condizioni dei terreni di fondazione sono **non drenate** da una profondità variabile indicativamente compresa fra -1,00/-4,00 m circa dal p.c., (come riportato al § 4 al quale si rimanda).

Condizioni drenate non sono significative per l'area in esame.

5.2 CARATTERIZZAZIONE MECCANICA DEI TERRENI

5.2.1 CONSIDERAZIONI GEOTECNICHE ED ALTRE CONSIDERAZIONI LOCALI RELATIVE AI TERRENI DELL'AREA IN ESAME

Le peculiarità geotecniche dell'area in esame, sono caratterizzate dalla presenza fino a -10,00/-11,00 m dal p.c. di litotipi argillo-limosi (tranne nella prova CPTU4 che vengono rilevati più superficialmente già a -4,00 m dal p.c.) e a seguire una alternanza di litotipi maggiormente sabbiosi e sabbio-limosi intercalati a livelli argillo-limosi di spessore variabile.

Possono quindi rilevarsi le seguenti peculiarità geotecniche (latu sensu):

- I terreni presentano compressibilità/cedevolezza non del tutto trascurabile, causato dalla presenza di terreni argillosi e argillo limosi fino alla quota sopra indicata. Si ricorda che l'eventuale presenza di torbe, oltre a presentare caratteristiche geotecniche e capacità portante scarsissime sono altresì caratterizzate da anisotropia spazio/temporale dell'insorgere e della maturazione dei cedimenti che potrebbero essere anche differenziali e/o "improvvisi". Normalmente tali effetti negativi potrebbero essere "controllati" da una debita rigidità delle strutture fondali.
- I terreni di fondazioni sono in condizioni NON drenate, la maturazione dei cedimenti (all'assunzione dei carichi) potrà prolungarsi lungamente nel tempo. Le condizioni non drenate (connesse alla natura argillosa) non consentono infatti la rapida dissipazione dei sovraccarichi derivanti dall'edificazione delle strutture.
- Condizioni drenate non sono complessivamente significative per l'area in esame.
- Le naturali/normali oscillazioni della falda freatica potranno far variare il volume dei terreni di fondazione (interessati appunto alla variazione della falda). Si potranno instaurare fenomeni di rigonfiamento/ritiro che potranno svolgersi con modalità più o meno cicliche (in connessione alla variabilità/stagionalità delle condizioni climatiche), ovvero con modalità molto meno prevedibili.
- Largamente trascurabile è anche la presenza di litotipi granulari per i quali si possano ipotizzare fenomeni di liquefazione all'atto di uno scuotimento sismico.

Relativamente alla valutazione della natura degli interventi in oggetto dovranno eseguire apposite valutazioni strutturali e geotecniche, come previsto dalle NTC vigenti.

5.2.2 DEFINIZIONE DEI PARAMETRI GEOTECNICI CARATTERISTICI

Si propone la seguente caratterizzazione dei terreni, sulla base dell'indagine penetrometrica eseguita (l'indagine eseguita è stata anche raffrontata ad indagini di bibliografia relative alla caratterizzazione geologica, in senso lato, locale e quindi ad aree prossime a quella in esame ed ad essa assimilabili dal punto di vista dell'origine geologica e lito-deposizionale). La Modellazione Geotecnica è proposta nella tabella seguente ed è relativa ai parametri indicati dalle NTC vigenti. Evidentemente è riportata sulla base di ipotesi che si ritengono congrue alle opere da realizzare.

Si è quindi proceduto all'individuazione di valori geotecnici caratteristici delle CPTU che saranno di seguito tabellati; tali valori potranno essere suscettibili di riconsiderazione da parte dei progettisti, sulla base di eventuali considerazioni diverse da quelle adottate nella presente relazione. L'intera progetta-

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zione geotecnica delle strutture dovrà comunque essere attentamente valutata in relazione alla funzionalità ed alle "richieste" (carichi, cedimenti ammissibili, altri requisiti funzionali ecc.) delle strutture. Dovranno altresì, logicamente, valutarsi i singoli cedimenti assoluti per le singole strutture da realizzarsi e nei vari punti caratteristici di tali strutture (centro fondazione, margini fondazione ecc.).

Dell'indagine eseguita si riportano in allegato i moduli relativi alle tabelle dei parametri geotecnici derivati alle quali si rimanda per una puntuale individuazione di tali parametri.

| | | | | | | | | | | | | | |
|---|--|------------------------------------|------------------|--|---|---|--------------------------------|---------------------------|--------------------------------------|--|----------------------|----------------------------|--|
| ANGOLO DI ATTRITO Searly (argille) e Kulhawy Mayne (sabbie) | ANGOLO DI ATTRITO A VOLUME COSTANTE | DENSITA' RELATIVA Taisioka 1990 | COESIONE DRENATA | COESIONE NON DRENATA programma Robertson 2013 | COEFFICIENTE DI POISSON Manuale di uso C.D.G. | MODULO DI TAGLIO INIZIALE Robertson 2013 | MODULO ELASTICO autori vari | MODULO EDOMETRICO Benassi | Ki di Winkler per piastra di 30cm | Kh di Winkler per pali di diametro 30cm | DENSITA' DEL TERRENO | DENSITA' DEL TERRENO SECCO | OVER CONSOLIDATION RATIO Mench / SGT 2014 |
|---|--|------------------------------------|------------------|--|---|---|--------------------------------|---------------------------|--------------------------------------|--|----------------------|----------------------------|--|

VALORI CARATTERISTICI PER PICCOLI VOLUMI

| UNITA' GEOTECNICA | CPT 1 | | Ic MEDIANA | ZONA ROBERTSON | LITOTIPO PREVALENTE ROBERTSON 1990 | ϕ | ϕ_{cv} | Dr | C' | Cu | P valori medie | Go | E | M | Ki | Kh | γ valori medie | γ_s valori medie | OCR valori medie |
|-------------------|-------|-------|---------------|-------------------|---------------------------------------|--------|-------------|------|---------------------|---------------------|----------------------|---------------------|---------------------|---------------------|--------------------|--------------------|-----------------------------|-------------------------------|------------------------|
| | DA | A | | | | ° | ° | % | daN/cm ² | daN/cm ² | | daN/cm ² | daN/cm ² | daN/cm ² | kg/cm ² | kg/cm ² | kg/m ³ | kg/m ³ | |
| A | 0.00 | 0.72 | 2.87 | 4 | limo argilloso-argilla limosa | 19.2 | | | 0.49 | 0.51 | 0.24 | 342 | 144 | 48 | 2.12 | 2.12 | 1844 | 1444 | 49.70 |
| B | 0.72 | 3.00 | 3.35 | 3 | argilla-argilla limosa | 20.3 | | | 0.00 | 0.11 | 0.39 | 91 | 34 | 11 | 0.52 | 0.52 | 1516 | 1116 | 2.55 |
| C | 3.00 | 9.90 | 3.09 | 3 | argilla-argilla limosa | 21.8 | | | 0.00 | 0.17 | 0.40 | 113 | 54 | 18 | 0.89 | 0.89 | 1608 | 1208 | 2.12 |
| D | 9.90 | 11.00 | 2.78 | 4 | limo argilloso-argilla limosa | 22.5 | | | 0.00 | 0.43 | 0.39 | 192 | 106 | 36 | 1.78 | 1.47 | 1712 | 1312 | 2.98 |
| E | 11.00 | 11.80 | 2.43 | 5 | sabbia limosa-limo sabbioso | 25.6 | 24.4 | 21.9 | | | 0.32 | 399 | 149 | 100 | 2.03 | 0.35 | 1836 | 1436 | 5.27 |
| F | 11.80 | 12.10 | 2.87 | 4 | limo argilloso-argilla limosa | 22.8 | | | 0.00 | 0.52 | 0.40 | 196 | 98 | 33 | 2.14 | 2.14 | 1670 | 1270 | 2.08 |
| G | 12.10 | 12.30 | 1.77 | 6 | sabbia-sabbia limosa | 39.1 | 32.5 | 63.6 | | | 0.37 | 639 | 683 | 267 | 21.65 | 8.02 | 1943 | 1543 | |
| H | 12.30 | 13.90 | 2.89 | 4 | limo argilloso-argilla limosa | 22.2 | | | 0.00 | 0.34 | 0.40 | 176 | 85 | 28 | 1.80 | 1.80 | 1695 | 1295 | 2.10 |
| I | 13.90 | 17.90 | 2.01 | 6 | sabbia-sabbia limosa | 36.8 | 32.8 | 47.5 | | | 0.35 | 575 | 427 | 191 | 7.57 | 3.33 | 1889 | 1489 | |
| J | 17.90 | 20.00 | 2.94 | 4 | limo argilloso-argilla limosa | 22.4 | | | 0.00 | 0.47 | 0.40 | 275 | 158 | 53 | 2.43 | 2.43 | 1768 | 1368 | 1.99 |

VALORI CARATTERISTICI PER GRANDI VOLUMI

| UNITA' GEOTECNICA | CPT 1 | | Ic MEDIANA | ZONA ROBERTSON | LITOTIPO PREVALENTE ROBERTSON 1990 | ϕ | ϕ_{cv} | Dr | C' | Cu | P valori medie | Go | E | M | Ki | Kh | γ valori medie | γ_s valori medie | OCR valori medie |
|-------------------|-------|-------|---------------|-------------------|---------------------------------------|--------|-------------|------|---------------------|---------------------|----------------------|---------------------|---------------------|---------------------|--------------------|--------------------|-----------------------------|-------------------------------|------------------------|
| | DA | A | | | | ° | ° | % | daN/cm ² | daN/cm ² | | daN/cm ² | daN/cm ² | daN/cm ² | kg/cm ² | kg/cm ² | kg/m ³ | kg/m ³ | |
| A | 0.00 | 0.72 | 2.87 | 4 | limo argilloso-argilla limosa | 20.5 | | | 0.49 | 0.79 | 0.24 | 371 | 212 | 71 | 2.67 | 2.67 | 1844 | 1444 | 49.70 |
| B | 0.72 | 3.00 | 3.35 | 3 | argilla-argilla limosa | 22.3 | | | 0.02 | 0.15 | 0.39 | 112 | 44 | 15 | 0.66 | 0.66 | 1516 | 1116 | 2.55 |
| C | 3.00 | 9.90 | 3.09 | 3 | argilla-argilla limosa | 23.4 | | | 0.00 | 0.30 | 0.40 | 154 | 91 | 30 | 1.32 | 1.32 | 1608 | 1208 | 2.12 |
| D | 9.90 | 11.00 | 2.78 | 4 | limo argilloso-argilla limosa | 25.3 | | | 0.04 | 0.73 | 0.39 | 257 | 163 | 55 | 2.43 | 2.32 | 1712 | 1312 | 2.98 |
| E | 11.00 | 11.80 | 2.43 | 5 | sabbia limosa-limo sabbioso | 30.3 | 28.5 | 28.0 | | | 0.32 | 442 | 238 | 117 | 3.31 | 1.64 | 1836 | 1436 | 5.27 |
| F | 11.80 | 12.10 | 2.87 | 4 | limo argilloso-argilla limosa | 24.4 | | | 0.00 | 0.58 | 0.40 | 220 | 125 | 42 | 2.22 | 2.22 | 1670 | 1270 | 2.08 |
| G | 12.10 | 12.30 | 1.77 | 6 | sabbia-sabbia limosa | 39.8 | 32.4 | 68.7 | | | 0.37 | 724 | 808 | 321 | 32.56 | 11.16 | 1943 | 1543 | |
| H | 12.30 | 13.90 | 2.89 | 4 | limo argilloso-argilla limosa | 24.5 | | | 0.00 | 0.62 | 0.40 | 250 | 153 | 51 | 2.34 | 2.34 | 1695 | 1295 | 2.10 |
| I | 13.90 | 17.90 | 2.01 | 6 | sabbia-sabbia limosa | 38.1 | 32.7 | 56.4 | | | 0.35 | 668 | 589 | 247 | 16.33 | 6.15 | 1889 | 1489 | |
| J | 17.90 | 20.00 | 2.94 | 4 | limo argilloso-argilla limosa | 24.5 | | | 0.00 | 0.86 | 0.40 | 371 | 243 | 81 | 3.08 | 3.08 | 1768 | 1368 | 1.99 |

VALORI MEDI

| UNITA' GEOTECNICA | CPT 1 | | Ic MEDIANA | ZONA ROBERTSON | LITOTIPO PREVALENTE ROBERTSON 1990 | ϕ | ϕ_{cv} | Dr | C' | Cu | P valori medie | Go | E | M | Ki | Kh | γ valori medie | γ_s valori medie | OCR valori medie |
|-------------------|-------|-------|---------------|-------------------|---------------------------------------|--------|-------------|------|---------------------|---------------------|----------------------|---------------------|---------------------|---------------------|--------------------|--------------------|-----------------------------|-------------------------------|------------------------|
| | DA | A | | | | ° | ° | % | daN/cm ² | daN/cm ² | | daN/cm ² | daN/cm ² | daN/cm ² | kg/cm ² | kg/cm ² | kg/m ³ | kg/m ³ | |
| A | 0.00 | 0.72 | 2.87 | 4 | limo argilloso-argilla limosa | 21.6 | | | 0.50 | 1.01 | 0.24 | 392 | 263 | 88 | 3.09 | 3.09 | 1844 | 1444 | 49.70 |
| B | 0.72 | 3.00 | 3.35 | 3 | argilla-argilla limosa | 22.6 | | | 0.02 | 0.15 | 0.39 | 115 | 46 | 15 | 0.68 | 0.68 | 1516 | 1116 | 2.55 |
| C | 3.00 | 9.90 | 3.09 | 3 | argilla-argilla limosa | 23.5 | | | 0.01 | 0.30 | 0.40 | 157 | 94 | 31 | 1.35 | 1.35 | 1608 | 1208 | 2.12 |
| D | 9.90 | 11.00 | 2.78 | 4 | limo argilloso-argilla limosa | 25.9 | | | 0.08 | 0.80 | 0.39 | 271 | 176 | 60 | 2.58 | 2.51 | 1712 | 1312 | 2.98 |
| E | 11.00 | 11.80 | 2.43 | 5 | sabbia limosa-limo sabbioso | 32.4 | 30.3 | 31.4 | | | 0.32 | 461 | 278 | 125 | 3.88 | 2.22 | 1836 | 1436 | 5.27 |
| F | 11.80 | 12.10 | 2.87 | 4 | limo argilloso-argilla limosa | 25.3 | | | 0.00 | 0.61 | 0.40 | 233 | 140 | 47 | 2.27 | 2.27 | 1670 | 1270 | 2.08 |
| G | 12.10 | 12.30 | 1.77 | 6 | sabbia-sabbia limosa | 40.6 | 32.1 | 73.8 | | | 0.37 | 808 | 930 | 375 | 43.28 | 14.24 | 1943 | 1543 | |
| H | 12.30 | 13.90 | 2.89 | 4 | limo argilloso-argilla limosa | 24.9 | | | 0.01 | 0.67 | 0.40 | 263 | 165 | 55 | 2.44 | 2.44 | 1695 | 1295 | 2.10 |
| I | 13.90 | 17.90 | 2.01 | 6 | sabbia-sabbia limosa | 38.2 | 32.7 | 57.5 | | | 0.35 | 679 | 609 | 254 | 17.44 | 6.50 | 1889 | 1489 | |
| J | 17.90 | 20.00 | 2.94 | 4 | limo argilloso-argilla limosa | 24.8 | | | 0.00 | 0.92 | 0.40 | 385 | 255 | 85 | 3.18 | 3.18 | 1768 | 1368 | 1.99 |

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DI POTENZA PARI A 5,12 MW NEL COMUNE DI MESOLA (FE)
RELAZIONE DI MODELLAZIONE GEOLOGICA E SISMICA E DI PRIME CONSIDERAZIONE GEOTECNICHE

| | | | | | | | | | | | | | |
|---|--|------------------------------------|------------------|--|---|---|--------------------------------|------------------------------|--------------------------------------|--|----------------------|----------------------------|---|
| ANGOLO DI ATTRITO Searly (argille) e Kulhavy Mayne (sabbie) | ANGOLO DI ATTRITO A VOLUME COSTANTE | DENSITA' RELATIVA Tatsuoka 1960 | COESIONE DRENATA | COESIONE NON DRENATA programma Robertson 2013 | COEFFICIENTE DI POISSON Manuale di Leo C.D.G. | MODULO DI TAGLIO INIZIALE Robertson 2013 | MODULO ELASTICO autori vari | MODULO EDOMETRICO Benassi | Ki di Winkler per piastra di 30cm | Kh di Winkler per pali di diametro 30cm | DENSITA' DEL TERRENO | DENSITA' DEL TERRENO SECCO | OVER CONSOLIDATION RATIO Marchi / SGT 2014 |
|---|--|------------------------------------|------------------|--|---|---|--------------------------------|------------------------------|--------------------------------------|--|----------------------|----------------------------|---|

VALORI CARATTERISTICI PER PICCOLI VOLUMI

| UNITA' GEOTECNICA | CPT 2 | | Ic | ZONA | LITOTIPO PREVALENTE | ϕ | ϕ_{cv} | Dr | C' | Cu | P valori medie | Go | E | M | Ki | Kh | γ' valori medie | γ'_s valori medie | OCR valori medie |
|-------------------|-------|-------|------|------|-------------------------------|--------|-------------|------|---------------------|---------------------|----------------------|---------------------|---------------------|---------------------|--------------------|--------------------|------------------------------|--------------------------------|------------------------|
| | DA | A | | | | ° | ° | % | daN/cm ² | daN/cm ² | | daN/cm ² | daN/cm ² | daN/cm ² | kg/cm ² | kg/cm ² | kg/mc | kg/mc | |
| A | 0.00 | 0.70 | 2.51 | 5 | sabbia limosa-limo sabbioso | 20.7 | 19.0 | 26.7 | | | 0.29 | 285 | 223 | 65 | 2.40 | 0.82 | 1785 | 1385 | 52.98 |
| B | 0.70 | 2.80 | 3.54 | 3 | argilla-argilla limosa | 19.1 | | | 0.00 | 0.07 | 0.28 | 76 | 26 | 9 | 0.38 | 0.38 | 1514 | 1114 | 2.16 |
| C | 2.80 | 3.90 | 3.20 | 3 | argilla-argilla limosa | 23.1 | | | 0.00 | 0.13 | 0.40 | 101 | 46 | 15 | 0.68 | 0.68 | 1536 | 1136 | 2.28 |
| D | 3.90 | 4.60 | 2.06 | 5 | sabbia limosa-limo sabbioso | 35.2 | 32.6 | 36.6 | | | 0.35 | 261 | 330 | 70 | 4.05 | 1.88 | 1732 | 1332 | |
| E | 4.60 | 6.00 | 3.00 | 3 | argilla-argilla limosa | 22.4 | | | 0.00 | 0.18 | 0.40 | 128 | 64 | 21 | 0.97 | 0.97 | 1621 | 1221 | 2.59 |
| F | 6.00 | 9.80 | 3.08 | 3 | argilla-argilla limosa | 22.7 | | | 0.00 | 0.19 | 0.40 | 126 | 77 | 26 | 1.06 | 1.06 | 1601 | 1201 | 1.69 |
| G | 9.80 | 10.30 | 2.29 | 5 | sabbia limosa-limo sabbioso | 33.2 | 31.9 | 22.9 | | | 0.32 | 324 | 190 | 73 | 1.78 | 0.86 | 1750 | 1350 | |
| H | 10.30 | 12.70 | 2.72 | 4 | limo argilloso-argilla limosa | 21.8 | | | 0.00 | 0.46 | 0.37 | 210 | 108 | 37 | 1.78 | 0.82 | 1756 | 1356 | 3.16 |
| I | 12.70 | 15.00 | 2.58 | 5 | sabbia limosa-limo sabbioso | 22.1 | 21.7 | 9.4 | | | 0.35 | 205 | 86 | 18 | 0.54 | 0.41 | 1812 | 1412 | 3.51 |
| J | 15.00 | 16.50 | 2.99 | 3 | argilla-argilla limosa | 22.4 | | | 0.00 | 0.49 | 0.40 | 243 | 161 | 54 | 2.23 | 2.23 | 1736 | 1336 | 1.87 |
| K | 16.50 | 17.00 | 2.18 | 5 | sabbia limosa-limo sabbioso | 35.0 | 32.5 | 35.4 | | | 0.33 | 505 | 316 | 139 | 4.51 | 1.98 | 1819 | 1419 | |

VALORI CARATTERISTICI PER GRANDI VOLUMI

| UNITA' GEOTECNICA | CPT 2 | | Ic | ZONA | LITOTIPO PREVALENTE | ϕ | ϕ_{cv} | Dr | C' | Cu | P valori medie | Go | E | M | Ki | Kh | γ' valori medie | γ'_s valori medie | OCR valori medie |
|-------------------|-------|-------|------|------|-------------------------------|--------|-------------|------|---------------------|---------------------|----------------------|---------------------|---------------------|---------------------|--------------------|--------------------|------------------------------|--------------------------------|------------------------|
| | DA | A | | | | ° | ° | % | daN/cm ² | daN/cm ² | | daN/cm ² | daN/cm ² | daN/cm ² | kg/cm ² | kg/cm ² | kg/mc | kg/mc | |
| A | 0.00 | 0.70 | 2.51 | 5 | sabbia limosa-limo sabbioso | 25.7 | 24.0 | 28.1 | | | 0.29 | 313 | 246 | 75 | 3.70 | 1.61 | 1785 | 1385 | 52.98 |
| B | 0.70 | 2.80 | 3.54 | 3 | argilla-argilla limosa | 20.7 | | | 0.01 | 0.10 | 0.28 | 106 | 38 | 13 | 0.52 | 0.52 | 1514 | 1114 | 2.16 |
| C | 2.80 | 3.90 | 3.20 | 3 | argilla-argilla limosa | 24.0 | | | 0.00 | 0.19 | 0.40 | 119 | 56 | 19 | 0.87 | 0.87 | 1536 | 1136 | 2.28 |
| D | 3.90 | 4.60 | 2.06 | 5 | sabbia limosa-limo sabbioso | 36.4 | 32.7 | 44.6 | | | 0.35 | 301 | 446 | 97 | 8.36 | 3.41 | 1732 | 1332 | |
| E | 4.60 | 6.00 | 3.00 | 3 | argilla-argilla limosa | 23.7 | | | 0.01 | 0.33 | 0.40 | 160 | 93 | 31 | 1.37 | 1.37 | 1621 | 1221 | 2.59 |
| F | 6.00 | 9.80 | 3.08 | 3 | argilla-argilla limosa | 23.6 | | | 0.00 | 0.28 | 0.40 | 147 | 91 | 30 | 1.33 | 1.33 | 1601 | 1201 | 1.69 |
| G | 9.80 | 10.30 | 2.29 | 5 | sabbia limosa-limo sabbioso | 34.0 | 32.2 | 28.3 | | | 0.32 | 346 | 252 | 85 | 3.06 | 1.38 | 1750 | 1350 | |
| H | 10.30 | 12.70 | 2.72 | 4 | limo argilloso-argilla limosa | 26.9 | | | 0.09 | 0.88 | 0.37 | 323 | 198 | 75 | 2.67 | 2.25 | 1756 | 1356 | 3.16 |
| I | 12.70 | 15.00 | 2.58 | 5 | sabbia limosa-limo sabbioso | 28.0 | 26.8 | 21.9 | | | 0.35 | 409 | 227 | 99 | 3.03 | 2.15 | 1812 | 1412 | 3.51 |
| J | 15.00 | 16.50 | 2.99 | 3 | argilla-argilla limosa | 23.6 | | | 0.00 | 0.65 | 0.40 | 303 | 201 | 67 | 2.58 | 2.58 | 1736 | 1336 | 1.87 |
| K | 16.50 | 17.00 | 2.18 | 5 | sabbia limosa-limo sabbioso | 35.4 | 32.6 | 37.9 | | | 0.33 | 523 | 347 | 148 | 5.30 | 2.29 | 1819 | 1419 | |

VALORI MEDI

| UNITA' GEOTECNICA | CPT 2 | | Ic | ZONA | LITOTIPO PREVALENTE | ϕ | ϕ_{cv} | Dr | C' | Cu | P valori medie | Go | E | M | Ki | Kh | γ' valori medie | γ'_s valori medie | OCR valori medie |
|-------------------|-------|-------|------|------|-------------------------------|--------|-------------|------|---------------------|---------------------|----------------------|---------------------|---------------------|---------------------|--------------------|--------------------|------------------------------|--------------------------------|------------------------|
| | DA | A | | | | ° | ° | % | daN/cm ² | daN/cm ² | | daN/cm ² | daN/cm ² | daN/cm ² | kg/cm ² | kg/cm ² | kg/mc | kg/mc | |
| A | 0.00 | 0.70 | 2.51 | 5 | sabbia limosa-limo sabbioso | 30.0 | 28.0 | 31.2 | | | 0.29 | 337 | 265 | 83 | 4.80 | 2.29 | 1785 | 1385 | 52.98 |
| B | 0.70 | 2.80 | 3.54 | 3 | argilla-argilla limosa | 21.0 | | | 0.02 | 0.11 | 0.28 | 110 | 40 | 13 | 0.54 | 0.54 | 1514 | 1114 | 2.16 |
| C | 2.80 | 3.90 | 3.20 | 3 | argilla-argilla limosa | 24.2 | | | 0.01 | 0.21 | 0.40 | 123 | 58 | 19 | 0.91 | 0.91 | 1536 | 1136 | 2.28 |
| D | 3.90 | 4.60 | 2.06 | 5 | sabbia limosa-limo sabbioso | 36.8 | 32.8 | 47.4 | | | 0.35 | 314 | 485 | 106 | 9.84 | 3.94 | 1732 | 1332 | |
| E | 4.60 | 6.00 | 3.00 | 3 | argilla-argilla limosa | 24.0 | | | 0.03 | 0.36 | 0.40 | 166 | 98 | 33 | 1.45 | 1.45 | 1621 | 1221 | 2.59 |
| F | 6.00 | 9.80 | 3.08 | 3 | argilla-argilla limosa | 23.7 | | | 0.00 | 0.29 | 0.40 | 149 | 92 | 31 | 1.36 | 1.36 | 1601 | 1201 | 1.69 |
| G | 9.80 | 10.30 | 2.29 | 5 | sabbia limosa-limo sabbioso | 34.4 | 32.4 | 31.1 | | | 0.32 | 357 | 283 | 92 | 3.71 | 1.64 | 1750 | 1350 | |
| H | 10.30 | 12.70 | 2.72 | 4 | limo argilloso-argilla limosa | 27.7 | | | 0.13 | 0.95 | 0.37 | 339 | 211 | 80 | 2.80 | 2.46 | 1756 | 1356 | 3.16 |
| I | 12.70 | 15.00 | 2.58 | 5 | sabbia limosa-limo sabbioso | 29.8 | 28.0 | 28.6 | | | 0.35 | 470 | 269 | 123 | 3.77 | 2.67 | 1812 | 1412 | 3.51 |
| J | 15.00 | 16.50 | 2.99 | 3 | argilla-argilla limosa | 23.7 | | | 0.00 | 0.67 | 0.40 | 313 | 208 | 69 | 2.63 | 2.63 | 1736 | 1336 | 1.87 |
| K | 16.50 | 17.00 | 2.18 | 5 | sabbia limosa-limo sabbioso | 35.5 | 32.6 | 38.7 | | | 0.33 | 529 | 358 | 152 | 5.58 | 2.40 | 1819 | 1419 | |

OPR SUN 31 SRL
PARCO FOTOVOLTAICO E RELATIVE OPERE DI CONNESSIONE ALLA RTN
DI POTENZA PARI A 5,12 MW NEL COMUNE DI MESOLA (FE)
RELAZIONE DI MODELLAZIONE GEOLOGICA E SISMICA E DI PRIME CONSIDERAZIONE GEOTECNICHE

| | | | | | | | | | | | | | |
|---|--|----------------------------------|-------------------|---|---|---|--------------------------------|------------------------------|--------------------------------------|--|----------------------|----------------------------|--|
| ANGOLO DI ATTRITO Searly (argille) e Kulhawy Mayne (sabbie) | ANGOLO DI ATTRITO A VOLUME COSTANTE | DENSITA' RELATIVA Tsuoka 1990 | COESIONE DRENVATA | COESIONE NON DRENVATA programma Robertson 2013 | COEFFICIENTE DI POISSON Manuale di uso C.D.G. | MODULO DI TAGLIO INIZIALE Robertson 2013 | MODULO ELASTICO autori vari | MODULO EDOMETRICO Benassi | Ki di Winkler per piastra di 30cm | Kh di Winkler per pali di diametro 30cm | DENSITA' DEL TERRENO | DENSITA' DEL TERRENO SECCO | OVER CONSOLIDATION RATIO March / SGT 2014 |
|---|--|----------------------------------|-------------------|---|---|---|--------------------------------|------------------------------|--------------------------------------|--|----------------------|----------------------------|--|

VALORI CARATTERISTICI PER PICCOLI VOLUMI

| UNITA' GEOTECNICA | CPT 3 | | Ic | ZONA | LITOTIPO PREVALENTE | ϕ | ϕ_{cv} | Dr | C' | Cu | P valori medie | Go | E | M | Ki | Kh | γ valori medie | γ_s valori medie | OCR valori medie |
|-------------------|-------|-------|------|------|-------------------------------|--------|-------------|------|---------|---------|----------------------|---------|---------|---------|--------------------|--------------------|-----------------------------|-------------------------------|------------------------|
| | DA | A | | | | ° | ° | % | daN/cmq | daN/cmq | | daN/cmq | daN/cmq | daN/cmq | kg/cm ² | kg/cm ² | kg/m ³ | kg/m ³ | |
| A | 0.00 | 0.90 | 2.98 | 3 | argilla-argilla limosa | 18.2 | | | 0.32 | 0.18 | 0.21 | 166 | 51 | 17 | 1.00 | 1.00 | 1771 | 1371 | 34.73 |
| B | 0.90 | 1.20 | 3.43 | 3 | argilla-argilla limosa | 18.3 | | | 0.06 | 0.13 | 0.31 | 155 | 57 | 19 | 0.67 | 0.67 | 1658 | 1258 | 4.23 |
| C | 1.20 | 3.00 | 3.38 | 3 | argilla-argilla limosa | 21.2 | | | 0.00 | 0.10 | 0.40 | 90 | 35 | 12 | 0.50 | 0.50 | 1498 | 1098 | 2.02 |
| D | 3.00 | 5.00 | 3.14 | 3 | argilla-argilla limosa | 24.0 | | | 0.00 | 0.18 | 0.40 | 102 | 39 | 13 | 0.77 | 0.77 | 1511 | 1111 | 2.03 |
| E | 5.00 | 6.00 | 3.00 | 3 | argilla-argilla limosa | 22.7 | | | 0.00 | 0.20 | 0.40 | 114 | 51 | 17 | 0.98 | 0.98 | 1611 | 1211 | 2.58 |
| F | 6.00 | 10.00 | 3.10 | 3 | argilla-argilla limosa | 22.6 | | | 0.00 | 0.19 | 0.40 | 123 | 76 | 25 | 1.06 | 1.06 | 1600 | 1200 | 1.66 |
| G | 10.00 | 15.20 | 2.52 | 5 | sabbia limosa-limo sabbioso | 25.2 | 24.2 | 19.5 | | | 0.33 | 319 | 148 | 70 | 1.84 | 0.26 | 1808 | 1408 | 3.81 |
| H | 15.20 | 16.30 | 3.05 | 3 | argilla-argilla limosa | 23.1 | | | 0.00 | 0.46 | 0.40 | 233 | 151 | 50 | 2.09 | 2.09 | 1699 | 1299 | 1.56 |
| I | 16.30 | 17.50 | 2.95 | 3 | argilla-argilla limosa | 22.2 | | | 0.00 | 0.35 | 0.40 | 270 | 161 | 54 | 2.11 | 2.11 | 1753 | 1353 | 1.97 |
| J | 17.50 | 19.30 | 3.08 | 3 | argilla-argilla limosa | 22.1 | | | 0.00 | 0.40 | 0.40 | 237 | 138 | 46 | 2.11 | 2.11 | 1726 | 1326 | 1.53 |
| K | 19.30 | 20.00 | 2.87 | 4 | limo argilloso-argilla limosa | 23.7 | | | 0.00 | 0.84 | 0.40 | 389 | 255 | 85 | 3.18 | 3.18 | 1788 | 1388 | 2.26 |

VALORI CARATTERISTICI PER GRANDI VOLUMI

| UNITA' GEOTECNICA | CPT 3 | | Ic | ZONA | LITOTIPO PREVALENTE | ϕ | ϕ_{cv} | Dr | C' | Cu | P valori medie | Go | E | M | Ki | Kh | γ valori medie | γ_s valori medie | OCR valori medie |
|-------------------|-------|-------|------|------|-------------------------------|--------|-------------|------|---------|---------|----------------------|---------|---------|---------|--------------------|--------------------|-----------------------------|-------------------------------|------------------------|
| | DA | A | | | | ° | ° | % | daN/cmq | daN/cmq | | daN/cmq | daN/cmq | daN/cmq | kg/cm ² | kg/cm ² | kg/m ³ | kg/m ³ | |
| A | 0.00 | 0.90 | 2.98 | 3 | argilla-argilla limosa | 20.3 | | | 0.42 | 0.51 | 0.21 | 276 | 138 | 46 | 1.88 | 1.88 | 1771 | 1371 | 34.73 |
| B | 0.90 | 1.20 | 3.43 | 3 | argilla-argilla limosa | 18.8 | | | 0.10 | 0.17 | 0.31 | 174 | 69 | 23 | 0.81 | 0.81 | 1658 | 1258 | 4.23 |
| C | 1.20 | 3.00 | 3.38 | 3 | argilla-argilla limosa | 22.6 | | | 0.01 | 0.13 | 0.40 | 104 | 42 | 14 | 0.62 | 0.62 | 1498 | 1098 | 2.02 |
| D | 3.00 | 5.00 | 3.14 | 3 | argilla-argilla limosa | 24.6 | | | 0.00 | 0.22 | 0.40 | 113 | 49 | 16 | 0.92 | 0.92 | 1511 | 1111 | 2.03 |
| E | 5.00 | 6.00 | 3.00 | 3 | argilla-argilla limosa | 24.0 | | | 0.01 | 0.33 | 0.40 | 154 | 86 | 29 | 1.37 | 1.37 | 1611 | 1211 | 2.58 |
| F | 6.00 | 10.00 | 3.10 | 3 | argilla-argilla limosa | 23.3 | | | 0.00 | 0.27 | 0.40 | 145 | 92 | 31 | 1.30 | 1.30 | 1600 | 1200 | 1.66 |
| G | 10.00 | 15.20 | 2.52 | 5 | sabbia limosa-limo sabbioso | 31.0 | 29.3 | 27.7 | | | 0.33 | 423 | 247 | 106 | 3.28 | 1.98 | 1808 | 1408 | 3.81 |
| H | 15.20 | 16.30 | 3.05 | 3 | argilla-argilla limosa | 23.8 | | | 0.00 | 0.52 | 0.40 | 260 | 171 | 57 | 2.26 | 2.26 | 1699 | 1299 | 1.56 |
| I | 16.30 | 17.50 | 2.95 | 3 | argilla-argilla limosa | 23.9 | | | 0.00 | 0.70 | 0.40 | 327 | 213 | 71 | 2.72 | 2.72 | 1753 | 1353 | 1.97 |
| J | 17.50 | 19.30 | 3.08 | 3 | argilla-argilla limosa | 23.6 | | | 0.00 | 0.57 | 0.40 | 298 | 187 | 62 | 2.49 | 2.49 | 1726 | 1326 | 1.53 |
| K | 19.30 | 20.00 | 2.87 | 4 | limo argilloso-argilla limosa | 25.0 | | | 0.00 | 1.04 | 0.40 | 412 | 283 | 94 | 3.45 | 3.45 | 1788 | 1388 | 2.26 |

VALORI MEDI

| UNITA' GEOTECNICA | CPT 3 | | Ic | ZONA | LITOTIPO PREVALENTE | ϕ | ϕ_{cv} | Dr | C' | Cu | P valori medie | Go | E | M | Ki | Kh | γ valori medie | γ_s valori medie | OCR valori medie |
|-------------------|-------|-------|------|------|-------------------------------|--------|-------------|------|---------|---------|----------------------|---------|---------|---------|--------------------|--------------------|-----------------------------|-------------------------------|------------------------|
| | DA | A | | | | ° | ° | % | daN/cmq | daN/cmq | | daN/cmq | daN/cmq | daN/cmq | kg/cm ² | kg/cm ² | kg/m ³ | kg/m ³ | |
| A | 0.00 | 0.90 | 2.98 | 3 | argilla-argilla limosa | 21.0 | | | 0.44 | 0.61 | 0.21 | 308 | 164 | 55 | 2.14 | 2.14 | 1771 | 1371 | 34.73 |
| B | 0.90 | 1.20 | 3.43 | 3 | argilla-argilla limosa | 19.1 | | | 0.12 | 0.19 | 0.31 | 184 | 75 | 25 | 0.88 | 0.88 | 1658 | 1258 | 4.23 |
| C | 1.20 | 3.00 | 3.38 | 3 | argilla-argilla limosa | 22.8 | | | 0.01 | 0.14 | 0.40 | 106 | 43 | 14 | 0.64 | 0.64 | 1498 | 1098 | 2.02 |
| D | 3.00 | 5.00 | 3.14 | 3 | argilla-argilla limosa | 24.7 | | | 0.00 | 0.22 | 0.40 | 114 | 50 | 17 | 0.94 | 0.94 | 1511 | 1111 | 2.03 |
| E | 5.00 | 6.00 | 3.00 | 3 | argilla-argilla limosa | 24.3 | | | 0.02 | 0.36 | 0.40 | 163 | 95 | 32 | 1.46 | 1.46 | 1611 | 1211 | 2.58 |
| F | 6.00 | 10.00 | 3.10 | 3 | argilla-argilla limosa | 23.4 | | | 0.00 | 0.28 | 0.40 | 147 | 93 | 31 | 1.32 | 1.32 | 1600 | 1200 | 1.66 |
| G | 10.00 | 15.20 | 2.52 | 5 | sabbia limosa-limo sabbioso | 31.6 | 29.8 | 28.8 | | | 0.33 | 434 | 257 | 110 | 3.43 | 2.16 | 1808 | 1408 | 3.81 |
| H | 15.20 | 16.30 | 3.05 | 3 | argilla-argilla limosa | 23.9 | | | 0.00 | 0.53 | 0.40 | 265 | 175 | 58 | 2.29 | 2.29 | 1699 | 1299 | 1.56 |
| I | 16.30 | 17.50 | 2.95 | 3 | argilla-argilla limosa | 24.3 | | | 0.00 | 0.77 | 0.40 | 340 | 225 | 75 | 2.85 | 2.85 | 1753 | 1353 | 1.97 |
| J | 17.50 | 19.30 | 3.08 | 3 | argilla-argilla limosa | 23.8 | | | 0.00 | 0.60 | 0.40 | 307 | 194 | 65 | 2.55 | 2.55 | 1726 | 1326 | 1.53 |
| K | 19.30 | 20.00 | 2.87 | 4 | limo argilloso-argilla limosa | 25.4 | | | 0.00 | 1.10 | 0.40 | 419 | 291 | 97 | 3.53 | 3.53 | 1788 | 1388 | 2.26 |

OPR SUN 31 SRL
PARCO FOTOVOLTAICO E RELATIVE OPERE DI CONNESSIONE ALLA RTN
DI POTENZA PARI A 5,12 MW NEL COMUNE DI MESOLA (FE)
RELAZIONE DI MODELLAZIONE GEOLOGICA E SISMICA E DI PRIME CONSIDERAZIONE GEOTECNICHE

| | | | | | | | | | | | | | |
|---|--|------------------------------------|------------------|--|---|---|--------------------------------|------------------------------|--------------------------------------|--|----------------------|----------------------------|---|
| ANGOLO DI ATTRITO Searly (argille) e Kulhavy Mayne (sabbie) | ANGOLO DI ATTRITO A VOLUME COSTANTE | DENSITA' RELATIVA Tatsuoka 1960 | COESIONE DRENATA | COESIONE NON DRENATA programma Robertson 2013 | COEFFICIENTE DI POISSON Manuale di Leo C.D.G. | MODULO DI TAGLIO INIZIALE Robertson 2013 | MODULO ELASTICO autori vari | MODULO EDOMETRICO Benassi | Ki di Winkler per piastra di 30cm | Kh di Winkler per pali di diametro 30cm | DENSITA' DEL TERRENO | DENSITA' DEL TERRENO SECCO | OVER CONSOLIDATION RATIO Marchi / SGT 2014 |
|---|--|------------------------------------|------------------|--|---|---|--------------------------------|------------------------------|--------------------------------------|--|----------------------|----------------------------|---|

VALORI CARATTERISTICI PER PICCOLI VOLUMI

| UNITA' GEOTECNICA | CPT 4 | | Ic | ZONA | LITOTIPO PREVALENTE | ϕ | ϕ_{cv} | Dr | C' | Cu | P valori medie | Go | E | M | Ki | Kh | γ' valori medie | γ'_s valori medie | OCR valori medie |
|-------------------|-------|-------|------|------|-------------------------------|--------|-------------|------|---------------------|---------------------|----------------------|---------------------|---------------------|---------------------|--------------------|--------------------|------------------------------|--------------------------------|------------------------|
| | DA | A | | | | ° | ° | % | daN/cm ² | daN/cm ² | | daN/cm ² | daN/cm ² | daN/cm ² | kg/cm ² | kg/cm ² | kg/mc | kg/mc | |
| A | 0.00 | 1.00 | 2.48 | 5 | sabbia limosa-limo sabbioso | 26.7 | 24.7 | 30.4 | | | 0.30 | 274 | 182 | 50 | 0.00 | 1.05 | 1889 | 1489 | 28.16 |
| B | 1.00 | 3.00 | 3.17 | 3 | argilla-argilla limosa | 22.2 | | | 0.00 | 0.15 | 0.39 | 74 | 19 | 6 | 0.61 | 0.61 | 1465 | 1065 | 2.43 |
| C | 3.00 | 5.10 | 2.67 | 4 | limo argilloso-argilla limosa | 25.0 | | | 0.12 | 0.41 | 0.35 | 118 | 45 | 15 | 0.99 | 0.38 | 1615 | 1215 | 4.43 |
| D | 5.10 | 5.90 | 2.19 | 5 | sabbia limosa-limo sabbioso | 33.9 | 32.2 | 27.7 | | | 0.33 | 257 | 225 | 59 | 1.93 | 1.00 | 1736 | 1336 | |
| E | 5.90 | 9.00 | 1.92 | 6 | sabbia-sabbia limosa | 36.7 | 32.8 | 47.1 | | | 0.36 | 389 | 453 | 123 | 7.88 | 3.37 | 1807 | 1407 | |
| F | 9.00 | 10.00 | 2.98 | 3 | argilla-argilla limosa | 23.4 | | | 0.00 | 0.25 | 0.40 | 136 | 62 | 21 | 1.34 | 1.34 | 1636 | 1236 | 1.87 |
| G | 10.00 | 11.10 | 2.38 | 5 | sabbia limosa-limo sabbioso | 31.8 | 30.3 | 25.0 | | | 0.31 | 402 | 188 | 95 | 2.00 | 0.88 | 1826 | 1426 | 5.58 |
| H | 11.10 | 13.00 | 2.87 | 4 | limo argilloso-argilla limosa | 23.6 | | | 0.00 | 0.33 | 0.40 | 195 | 98 | 33 | 1.78 | 1.78 | 1713 | 1313 | 2.36 |
| I | 13.00 | 16.90 | 2.08 | 5 | sabbia limosa-limo sabbioso | 35.0 | 32.5 | 35.2 | | | 0.34 | 483 | 292 | 131 | 2.25 | 1.32 | 1867 | 1467 | |
| J | 16.90 | 18.30 | 2.90 | 4 | limo argilloso-argilla limosa | 23.9 | | | 0.00 | 0.58 | 0.40 | 267 | 134 | 45 | 2.55 | 2.55 | 1698 | 1298 | 1.73 |
| K | 18.30 | 18.90 | 2.65 | 4 | limo argilloso-argilla limosa | 23.0 | | | 0.00 | 1.01 | 0.39 | 325 | 153 | 52 | 3.04 | 2.20 | 1806 | 1406 | 2.72 |

VALORI CARATTERISTICI PER GRANDI VOLUMI

| UNITA' GEOTECNICA | CPT 4 | | Ic | ZONA | LITOTIPO PREVALENTE | ϕ | ϕ_{cv} | Dr | C' | Cu | P valori medie | Go | E | M | Ki | Kh | γ' valori medie | γ'_s valori medie | OCR valori medie |
|-------------------|-------|-------|------|------|-------------------------------|--------|-------------|------|---------------------|---------------------|----------------------|---------------------|---------------------|---------------------|--------------------|--------------------|------------------------------|--------------------------------|------------------------|
| | DA | A | | | | ° | ° | % | daN/cm ² | daN/cm ² | | daN/cm ² | daN/cm ² | daN/cm ² | kg/cm ² | kg/cm ² | kg/mc | kg/mc | |
| A | 0.00 | 1.00 | 2.48 | 5 | sabbia limosa-limo sabbioso | 33.0 | 29.6 | 43.0 | | | 0.30 | 464 | 299 | 143 | 11.17 | 3.33 | 1889 | 1489 | 28.16 |
| B | 1.00 | 3.00 | 3.17 | 3 | argilla-argilla limosa | 24.9 | | | 0.02 | 0.20 | 0.39 | 102 | 36 | 12 | 0.76 | 0.76 | 1465 | 1065 | 2.43 |
| C | 3.00 | 5.10 | 2.67 | 4 | limo argilloso-argilla limosa | 28.8 | | | 0.26 | 0.58 | 0.35 | 180 | 113 | 33 | 1.67 | 1.28 | 1615 | 1215 | 4.43 |
| D | 5.10 | 5.90 | 2.19 | 5 | sabbia limosa-limo sabbioso | 35.2 | 32.6 | 36.8 | | | 0.33 | 306 | 341 | 85 | 5.31 | 2.27 | 1736 | 1336 | |
| E | 5.90 | 9.00 | 1.92 | 6 | sabbia-sabbia limosa | 37.8 | 32.7 | 54.9 | | | 0.36 | 461 | 592 | 174 | 14.85 | 5.66 | 1807 | 1407 | |
| F | 9.00 | 10.00 | 2.98 | 3 | argilla-argilla limosa | 24.6 | | | 0.00 | 0.43 | 0.40 | 187 | 107 | 36 | 1.76 | 1.76 | 1636 | 1236 | 1.87 |
| G | 10.00 | 11.10 | 2.38 | 5 | sabbia limosa-limo sabbioso | 34.2 | 31.9 | 33.2 | | | 0.31 | 461 | 281 | 121 | 4.27 | 1.90 | 1826 | 1426 | 5.58 |
| H | 11.10 | 13.00 | 2.87 | 4 | limo argilloso-argilla limosa | 25.1 | | | 0.01 | 0.72 | 0.40 | 277 | 175 | 58 | 2.54 | 2.54 | 1713 | 1313 | 2.36 |
| I | 13.00 | 16.90 | 2.08 | 5 | sabbia limosa-limo sabbioso | 36.9 | 32.8 | 48.5 | | | 0.34 | 618 | 479 | 206 | 11.18 | 4.37 | 1867 | 1467 | |
| J | 16.90 | 18.30 | 2.90 | 4 | limo argilloso-argilla limosa | 25.7 | | | 0.00 | 0.79 | 0.40 | 301 | 175 | 58 | 2.81 | 2.81 | 1698 | 1298 | 1.73 |
| K | 18.30 | 18.90 | 2.65 | 4 | limo argilloso-argilla limosa | 25.3 | | | 0.00 | 1.25 | 0.39 | 409 | 234 | 84 | 3.50 | 3.03 | 1806 | 1406 | 2.72 |

VALORI MEDI

| UNITA' GEOTECNICA | CPT 4 | | Ic | ZONA | LITOTIPO PREVALENTE | ϕ | ϕ_{cv} | Dr | C' | Cu | P valori medie | Go | E | M | Ki | Kh | γ' valori medie | γ'_s valori medie | OCR valori medie |
|-------------------|-------|-------|------|------|-------------------------------|--------|-------------|------|---------------------|---------------------|----------------------|---------------------|---------------------|---------------------|--------------------|--------------------|------------------------------|--------------------------------|------------------------|
| | DA | A | | | | ° | ° | % | daN/cm ² | daN/cm ² | | daN/cm ² | daN/cm ² | daN/cm ² | kg/cm ² | kg/cm ² | kg/mc | kg/mc | |
| A | 0.00 | 1.00 | 2.48 | 5 | sabbia limosa-limo sabbioso | 34.7 | 30.8 | 46.6 | | | 0.30 | 512 | 328 | 167 | 14.18 | 3.91 | 1889 | 1489 | 28.16 |
| B | 1.00 | 3.00 | 3.17 | 3 | argilla-argilla limosa | 25.3 | | | 0.03 | 0.20 | 0.39 | 106 | 38 | 13 | 0.78 | 0.78 | 1465 | 1065 | 2.43 |
| C | 3.00 | 5.10 | 2.67 | 4 | limo argilloso-argilla limosa | 29.5 | | | 0.30 | 0.63 | 0.35 | 192 | 126 | 37 | 1.80 | 1.45 | 1615 | 1215 | 4.43 |
| D | 5.10 | 5.90 | 2.19 | 5 | sabbia limosa-limo sabbioso | 35.6 | 32.6 | 39.4 | | | 0.33 | 319 | 374 | 93 | 6.26 | 2.63 | 1736 | 1336 | |
| E | 5.90 | 9.00 | 1.92 | 6 | sabbia-sabbia limosa | 38.0 | 32.7 | 55.8 | | | 0.36 | 469 | 607 | 180 | 15.61 | 5.91 | 1807 | 1407 | |
| F | 9.00 | 10.00 | 2.98 | 3 | argilla-argilla limosa | 24.9 | | | 0.01 | 0.46 | 0.40 | 198 | 117 | 39 | 1.86 | 1.86 | 1636 | 1236 | 1.87 |
| G | 10.00 | 11.10 | 2.38 | 5 | sabbia limosa-limo sabbioso | 34.8 | 32.3 | 35.3 | | | 0.31 | 475 | 303 | 127 | 4.82 | 2.14 | 1826 | 1426 | 5.58 |
| H | 11.10 | 13.00 | 2.87 | 4 | limo argilloso-argilla limosa | 25.3 | | | 0.04 | 0.78 | 0.40 | 289 | 187 | 62 | 2.65 | 2.65 | 1713 | 1313 | 2.36 |
| I | 13.00 | 16.90 | 2.08 | 5 | sabbia limosa-limo sabbioso | 37.2 | 32.8 | 50.1 | | | 0.34 | 633 | 501 | 215 | 12.23 | 4.73 | 1867 | 1467 | |
| J | 16.90 | 18.30 | 2.90 | 4 | limo argilloso-argilla limosa | 26.0 | | | 0.00 | 0.83 | 0.40 | 307 | 182 | 61 | 2.86 | 2.86 | 1698 | 1298 | 1.73 |
| K | 18.30 | 18.90 | 2.65 | 4 | limo argilloso-argilla limosa | 27.3 | | | 0.05 | 1.48 | 0.39 | 480 | 303 | 112 | 3.89 | 3.73 | 1806 | 1406 | 2.72 |

6. RELAZIONE SULLA MODELLAZIONE SISMICA CONCERNENTE LA “PERICOLOSITÀ SISMICA DI BASE” DEL SITO DI COSTRUZIONE

La classificazione sismica dell'area in esame è basata sui contenuti delle NTV vigenti ed è stata individuata sulla base di n.2 misure sismiche passive locali, di tipo H/V (di cui si dirà oltre) realizzata tramite apparecchiatura tromografica TROMINO © di costruzione MICROMED (e restituzione dei dati mediante apposito software GRILLA ©- MICROMED).

6.1 DESCRIZIONE DELLA METODOLOGIA TROMOGRAFICA E HVSR E SCOPO DELL'INDAGINE

La metodologia tromografica si basa sulla misura diretta delle frequenze di naturale vibrazione dei suoli (e/o di altri oggetti poggianti direttamente o indirettamente sul suolo), sfruttando in pratica l'effetto pendolo. Nel dominio della frequenza vengono coinvolti quattro spettri rappresentati dalle componenti orizzontali e verticali del moto in superficie (HS e VS) e alla base dello strato (HB e VB).

La tecnica di Nakamura si basa sulle seguenti ipotesi: le sorgenti dei microtremori sono locali, trascurando qualsiasi contributo dovuto a sorgenti profonde; le sorgenti dei microtremori in superficie non influenzano i microtremori alla base; la componente verticale del moto non risente di effetti di amplificazione locale.

Sotto queste ipotesi, il rapporto fra le componenti verticali del moto in superficie ed alla base contiene solo termini delle sorgenti locali AS(f) e delle sorgenti alla base AB(f), ed è pari a:

$$R_v(f) = V_s(f)/V_b(f) = A_s(f)/A_b(f).$$

Mentre il rapporto fra l'ampiezza dello spettro della componente orizzontale del moto in superficie (HS) e alla base dello strato (HB), contiene oltre che il termine di sorgente anche il termine di amplificazione di sito in superficie S(f) e può essere espresso nel seguente modo:

$$R_h(f) = H_s(f)/H_b(f) = [A_s(f) * S_s(f)] / A_b(f).$$

Per rimuovere l'effetto di sorgente dai segnali, Nakamura divide i due rapporti R fra loro ottenendo così la seguente espressione per la funzione trasferimento di sito:

$$R_h(f)/R_v(f) = S_s(\omega) = H_s(f)/H_b(f) * V_b(f)/V_s(f).$$

Ipotizzando infine che alla base dei sedimenti l'ampiezza spettrale della componente verticale e di quella orizzontale siano uguali e cioè:

$$V_b(f)/H_b(f) = 1.$$

Il fattore di amplificazione del moto orizzontale in superficie potrà essere valutato direttamente nel seguente modo:

$$S(f) = H_s(f)/V_s(f).$$

Le varie ipotesi sono state verificate dallo stesso Nakamura (1989) con misure di microtremori in superficie e in pozzo.

Le stesse assunzioni sono state verificate anche da altri autori confrontando i risultati ottenuti con modelli di propagazione di onde di Rayleigh, modelli di propagazione 1-D di onde S e con modelli di generazione sintetica di rumore. Le conclusioni a cui sono giunti gli studi suddetti sono che il picco visibi-

le nei rapporti H/V ottenuti con il rumore simulato è indipendente dalle caratteristiche della sorgente del rumore e che dipende invece fortemente dalla stratigrafia del terreno.

Tale picco è inoltre ben correlato con la frequenza fondamentale di risonanza del terreno soggetto alla propagazione di onde S verticali e con il picco fondamentale delle curve di dispersione delle onde di Rayleigh.

La misura è stata eseguita con un apparecchio portatile compatto (TROMINO MICROMED) che alloggia in un unico contenitore rigido metallico tre sensori sismometrici, un digitalizzatore a 24 bit ed il sistema di archiviazione su flash memory. Tutte le operazioni descritte sono state fatte prevalentemente in campagna, mediante un programma applicativo appositamente implementato. Questo ha permesso di avere già al sito la possibilità di verificare le misure effettuate ed eventualmente ripeterle. La misura di microtremori è infatti soggetta ad influenze ambientali (vento, pioggia, copertura artificiale dei terreni, ecc.): per una descrizione dettagliata dei problemi legati alla corretta effettuazione delle misure si veda Mucciarelli (1998).

Di seguito si riporta una succinta bibliografia di riferimento circa metodologia, utilizzo e restituzione della metodologia tromografica: Mucciarelli, M. (1998). Reliability and applicability range of Nakamura's technique using microtremors: an experimental approach, J. Earthquake Engin., Vol. 2, n. 4, 1-14. Nakamura, Y. (1989). A method for dynamic characteristics estimation of subsurface using microtremor on the ground surface. QR Railway Tech. Res. Inst. 30, 1.

Lo scopo della misura eseguita è l'individuazione dei seguenti parametri caratteristici dell'area in esame:

- Vs e conseguente categoria sismica dei suoli di fondazione, secondo i contenuti del D.M. - N.T.C.;
- Frequenza propria (di vibrazione) dei suoli di fondazione.

Nel prossimo paragrafo si riportano anche gli altri parametri di caratterizzazione sismica per l'area in esame, come "richiesti" dalle N.T.C..

L'indagine tromografica si è appoggiata alle conoscenze stratigrafiche locali derivanti dall'esecuzione dell'indagine penetrometrica statica. Ciò è indispensabile data la natura della strumentazione utilizzata e date le possibilità offerte dalle esperienze di Nakamura (et Alii), di cui si è sopra già ampiamente riportato.

È importante far osservare come uno strumento tromografico sia l'unica strumentazione in grado di misurare la frequenza propria di oscillazione dei terreni. Da tali dati si possono poi ricostruire tutte le altre componenti caratterizzanti dal punto di vista sismico i terreni di un'area (e sopra indicati).

La possibilità di risalire ai dati di Vs30 conoscendo le frequenze tipiche di un suolo e gli spessori (profondità) dei suoi riflettori sismici, discende dalle esperienze di Nakamura e del derivato metodo HSVR precedentemente descritto.

Il metodo di indagine utilizzato presuppone alcune approssimazioni legate ad esempio al fatto che le velocità di propagazione delle onde sismiche provocate aumentano dall'alto verso il basso (per questo il metodo consente la determinazione delle velocità intese come medie del volume di terra indagato non avendo un grado di definizione elevato); le velocità Vs così misurate sono comunque significative,

trattandosi pur sempre di una misura diretta. Nei grafici $H/V - f$, che verranno in seguito riportati, si individuano le varie frequenze tipiche dei terreni di fondazione, dato di notevole importanza per una accurata progettazione delle strutture da realizzarsi sull'area in esame.

Soprattutto in considerazione della tipologia strutturale da realizzarsi, si dovranno evitare accoppiamenti fra le modalità di vibrazione delle strutture (prevedibili in fase di progettazione) e le modalità di vibrazione dei terreni di fondazione, di cui sopra.

6.2 RISULTATI DELL'INDAGINE SISMICA

La misura sismica di tipo tromografico ha individuato valori di **Vs** pari a **214 m/sec (TR1)** e **235 m/s (TR2)**.

Le misure individuano quindi i terreni di fondazione come classificabili nella **categoria** di riferimento **C**. Tale categoria è descritta come: "Depositi di terreni a grana grossa mediamente addensati o terreni a grana fine mediamente consistenti, con spessori superiori a 30 m, caratterizzati da un graduale miglioramento delle proprietà meccaniche con la profondità e da valori di Vs30 compresi fra 180 e 360 m/s (ovvero $15 < N_{SPT} < 50$ nei terreni a grana grossa e $70 < Cu_{30} < 250$ KPa (0,70- 2,50 Kg/cm² circa).

Pertanto di seguito si assumerà la categoria C proposta dalle indagini sismiche.

Relativamente all'attendibilità del suddetto valore di Vs, è comunque chiaro che ogni metodologia d'indagine che attiene al "campo" geologico (ancor più se si tratta di un metodo geofisico) è normalmente/fisiologicamente "afflitta" da una aliquota di imprecisione/indeterminatezza e poiché per il metodo in oggetto Autori quali S. Castellaro riportano valori pari al $\pm 15/20\%$, sarà il caso di valutare l'influenza di tale errore sui valori sopra riportati.

In relazione quindi ai valori di Vs, questi potrebbero essere compresi fra 171 m/s nel peggiore dei casi (e quindi Categoria D) circa e 282 m/s circa (e quindi sempre Categoria C).

Pertanto di seguito si assumerà la categoria C proposta (ferma restando la possibilità di una differente valutazione da parte del Progettista, nel qual caso quanto riportato all'apposito paragrafo di individuazione dei parametri sismici perderà ogni validità).

6.3 ULTERIORI ELEMENTI DI CARATTERIZZAZIONE

Si è provveduto a caratterizzare l'area d'indagine secondo i contenuti delle N.T.C., tale caratterizzazione viene riportata di seguito, fra gli altri si è utilizzato il Software Geostru PS® (free- share disponibile on- line).

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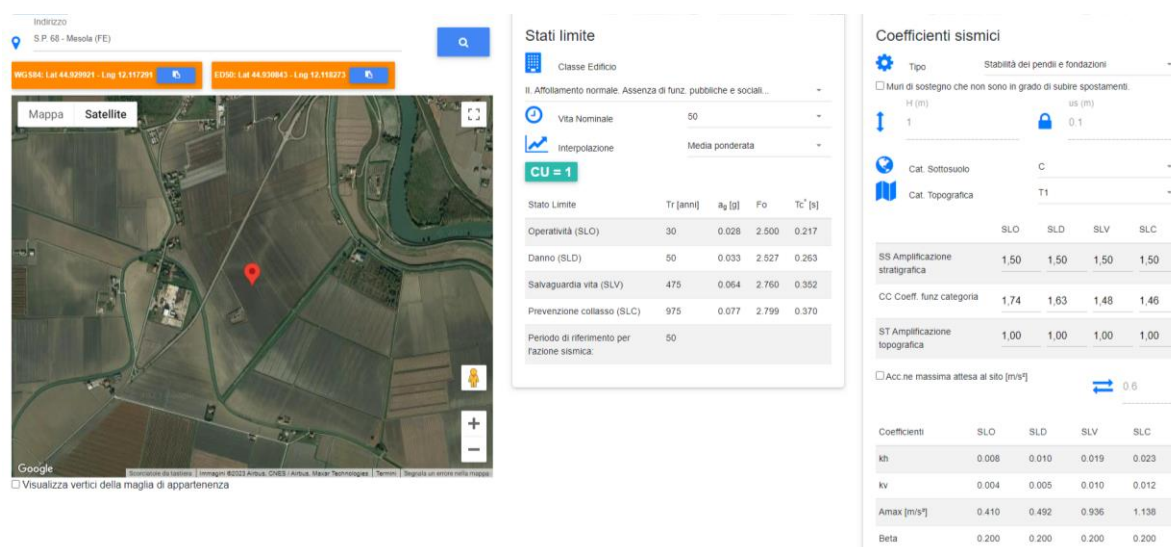


Figura 7 - Ubicazione area ed individuazione dei parametri sismici.

6.4 STORIA SISMICA LOCALE

L'Emilia-Romagna è interessata da una sismicità che può essere definita media relativamente alla sismicità nazionale, con terremoti storici di magnitudo massima compresa tra 5,50 e 6 e intensità massime risentite del IX-X grado della scala MCS. I maggiori terremoti si sono verificati nel settore sud-orientale, in particolare nell'Appennino romagnolo e lungo la costa riminese. Altri settori interessati da sismicità frequente ma generalmente di minore energia sono il margine appenninico-padano tra la Val d'Arda e Bologna, l'arco della dorsale ferrarese e il crinale appenninico. Tale sismicità è dovuta al processo ancora attivo di costruzione della catena appenninica. In particolare risultano attivi i sovrascorimenti sepolti che danno luogo agli archi di Piacenza- Parma, Reggio Emilia e di Ferrara. (Boccaletti et al., 2004).

A seguito del terremoto del Molise del 2002, è stata elaborata una nuova Mappa di pericolosità sismica del territorio nazionale e la progettazione in zona sismica non è più effettuata secondo zone di pari sismicità ma viene effettuata a partire dai valori assoluti di scuotimento del suolo attesi secondo la nuova mappa di pericolosità sismica (che verranno riportate alle figure seguenti).

L'Intensità Massima I_{Max} attesa è pari a 9. L'area si trova in prossimità Zona Sismogenetica (ZS9) di riferimento 912, come verrà illustrato di seguito.

Il territorio del Comune di Mesola è correttamente classificato come zona sismica 3 e ad esso (per la maggior parte) è associato un valore di accelerazione massima al suolo compreso tra 0,050 e 0,075g.

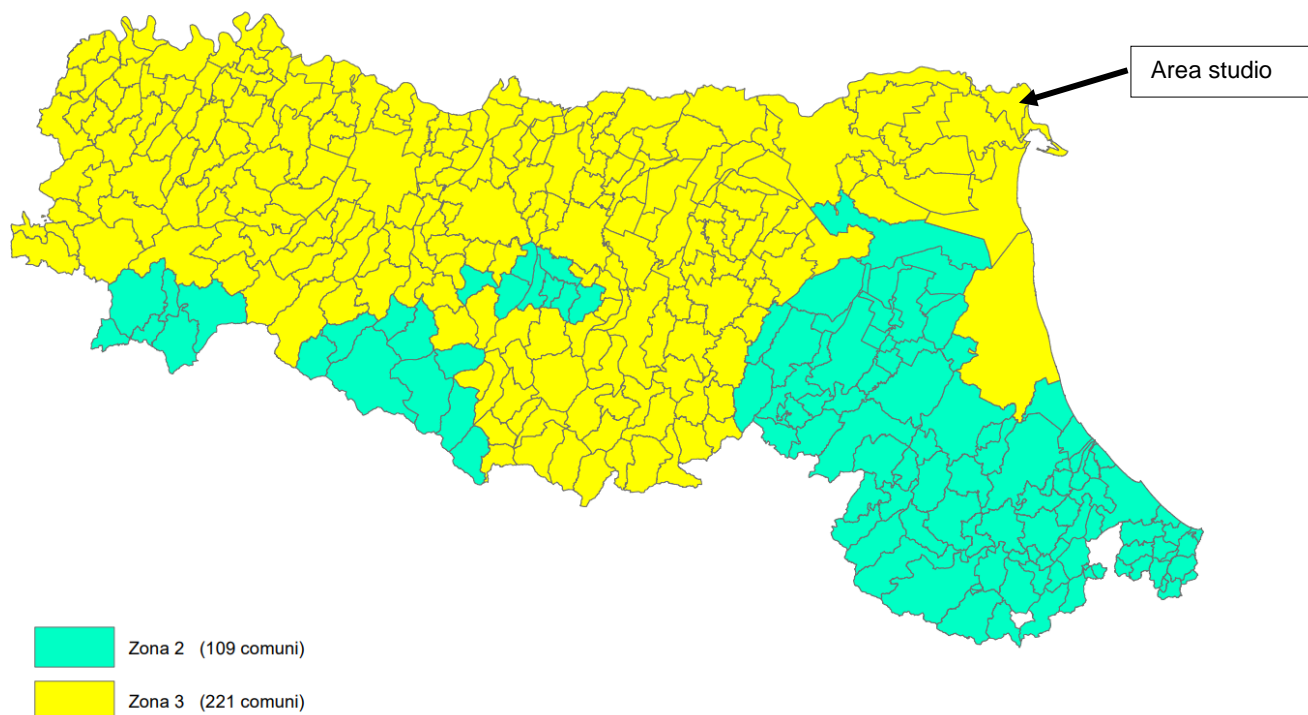


Figura 8 – Classificazione sismica del territorio regionale secondo l'OPCM 3274/2003. Il Comune di Mesola viene attribuito alla zona 3.

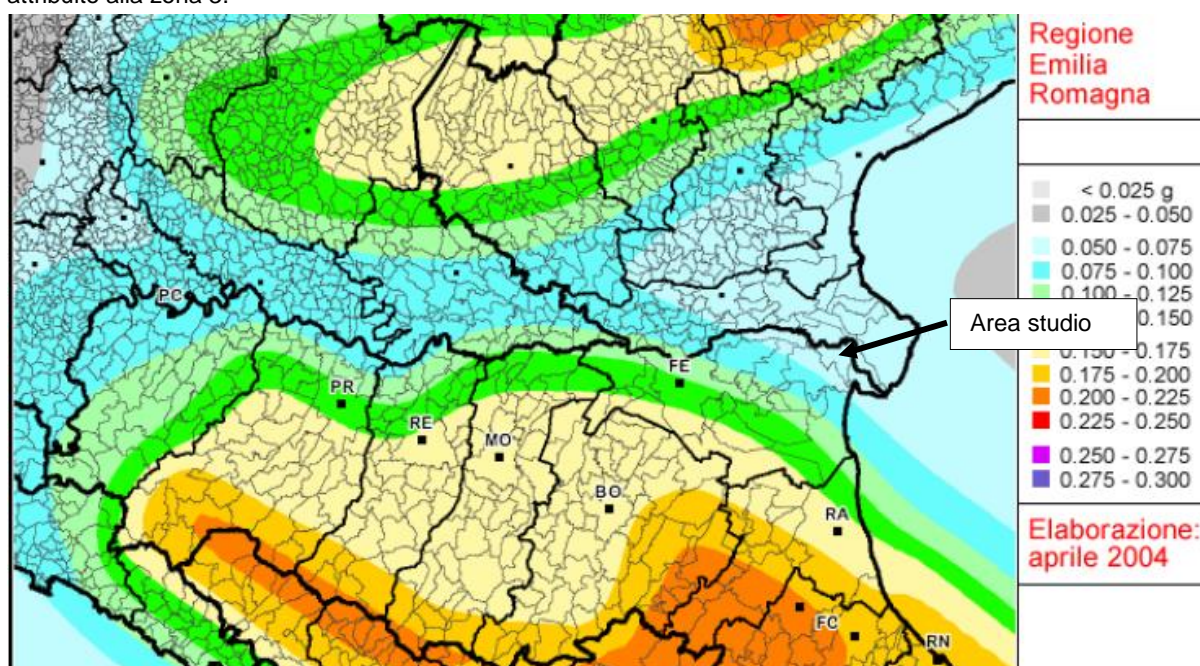


Figura 9 – Mappa di pericolosità sismica della Regione Emilia-Romagna espressa in termini di accelerazione massima al suolo con probabilità di eccedenza del 10% in 50 anni riferita a suoli rigidi (Cat. A). All'area del Comune di Mesola è associata un'accelerazione compresa tra 0,050 e 0,075 g. (Meletti & Montalbo, 2007).

Di seguito si riporta una mappa degli epicentri dei terremoti avvenuti nella Regione Emilia-Romagna dal 1000 ad oggi. Si può osservare che la maggior sismicità è concentrata nella zona dell'Appennino Romagnolo. Relativamente ai pressi (molto allargati invero) dell'area in esame non si osservano eventi sismici di magnitudo rilevante.

La città di Mesola, in particolare, è stata colpita dai seguenti terremoti all'interno della medesima ZS912:

- nel 1895 – Villanova Marchesana (Intensità 4-5, $M 3.98 \pm 0.56$);
- nel 2002 – Ferrarese (Intensità 4, $M 4.21 \pm 0.10$)

La magnitudo attesa per la ZS 912 è pari a $M=6,1$ circa, ciò sulla base di considerazioni statistico-probabilistiche (determinazioni tramite il Metodo di Gumbel, 1997) che tengono in considerazione distanza epicentrale degli eventi dall'area in esame e della regressione temporale degli stessi, per le ZS 912/914. Questo valore è molto penalizzante per l'area in esame, ricordando le magnitudo storiche sopra citate e considerando che la scala di misura della magnitudo è logaritmica.

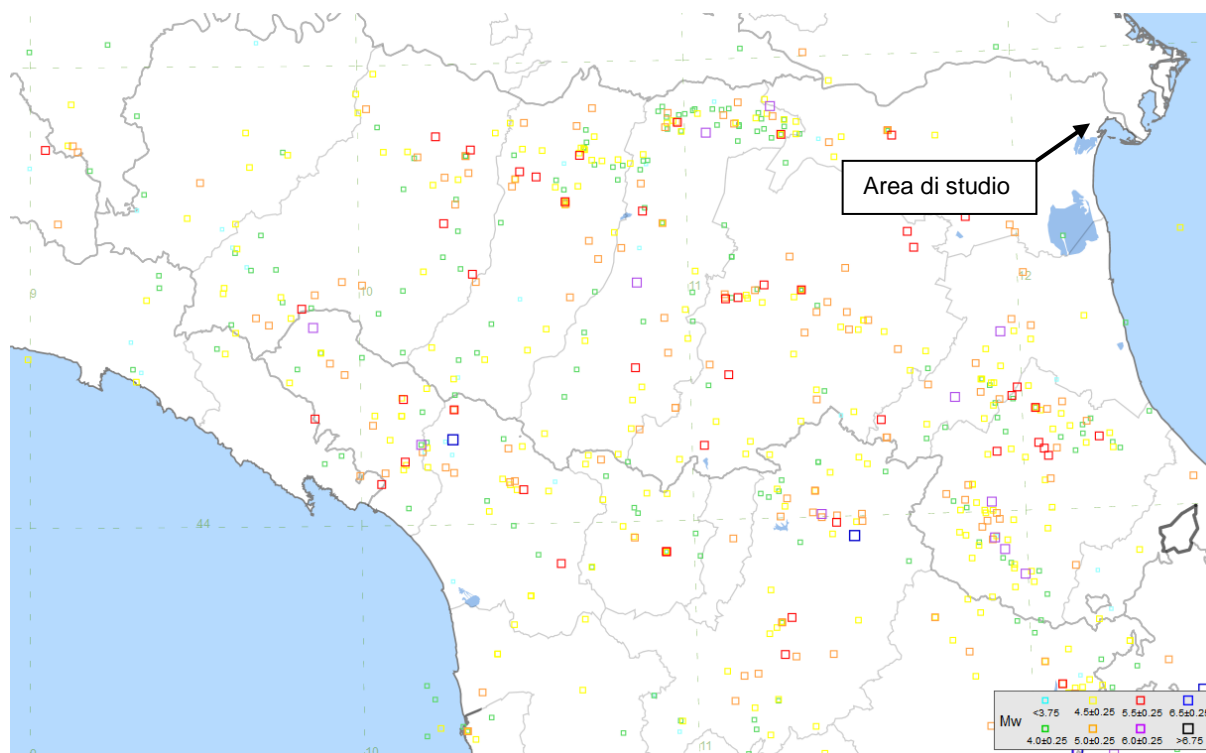


Figura 10 – Mappa degli epicentri dei terremoti avvenuti in Emilia Romagna dal 1200 ad oggi (CPTI2015).

Dalla consultazione del Catalogo Parametrico dei Terremoti Italiani CPTI15, l'area del Comune Mesola ha registrato nel tempo gli eventi sismici riportati nelle figure di seguito.



Figura 11 – Storia sismica del Comune di Mesola . L'Intensità Sismica (Is) massima registrata è 4.

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| Effects | Reported earthquakes | | | | | | | | | |
|---------|----------------------|----|----|----|----|----|-----------------------------|------|-----|------|
| Int. | Year | Mo | Da | Ho | Mi | Se | Epicentral area | NMDP | Io | Mw |
| 3-4 | 1895 | 05 | 25 | 12 | 42 | | Villanova Marchesana | 11 | 4-5 | 3.98 |
| NF | 1898 | 01 | 16 | 13 | 10 | | Romagna settentrionale | 110 | 6 | 4.59 |
| NF | 1898 | 03 | 09 | 11 | 43 | | Romagna settentrionale | 68 | 6 | 4.59 |
| NF | 1986 | 12 | 06 | 17 | 07 | 1 | Ferrarese | 604 | 6 | 4.43 |
| NF | 1987 | 05 | 02 | 20 | 43 | 5 | Reggiano | 802 | 6 | 4.71 |
| 3-4 | 1989 | 09 | 13 | 21 | 54 | 0 | Prealpi Vicentine | 779 | 6-7 | 4.85 |
| 4 | 1998 | 03 | 26 | 16 | 26 | 1 | Appennino umbro-marchigiano | 409 | | 5.26 |
| 3 | 2002 | 11 | 02 | 10 | 57 | 4 | Ferrarese | 79 | 4 | 4.21 |

Figura 12 – Elenco dei terremoti per il Comune di Mesola

Il territorio del comune di Mesola, è stato colpito dal terremoto del 1895 (IS= 4-5, Mw 3.98 ± 0.56); per tale evento il valore di IS è 3-4.

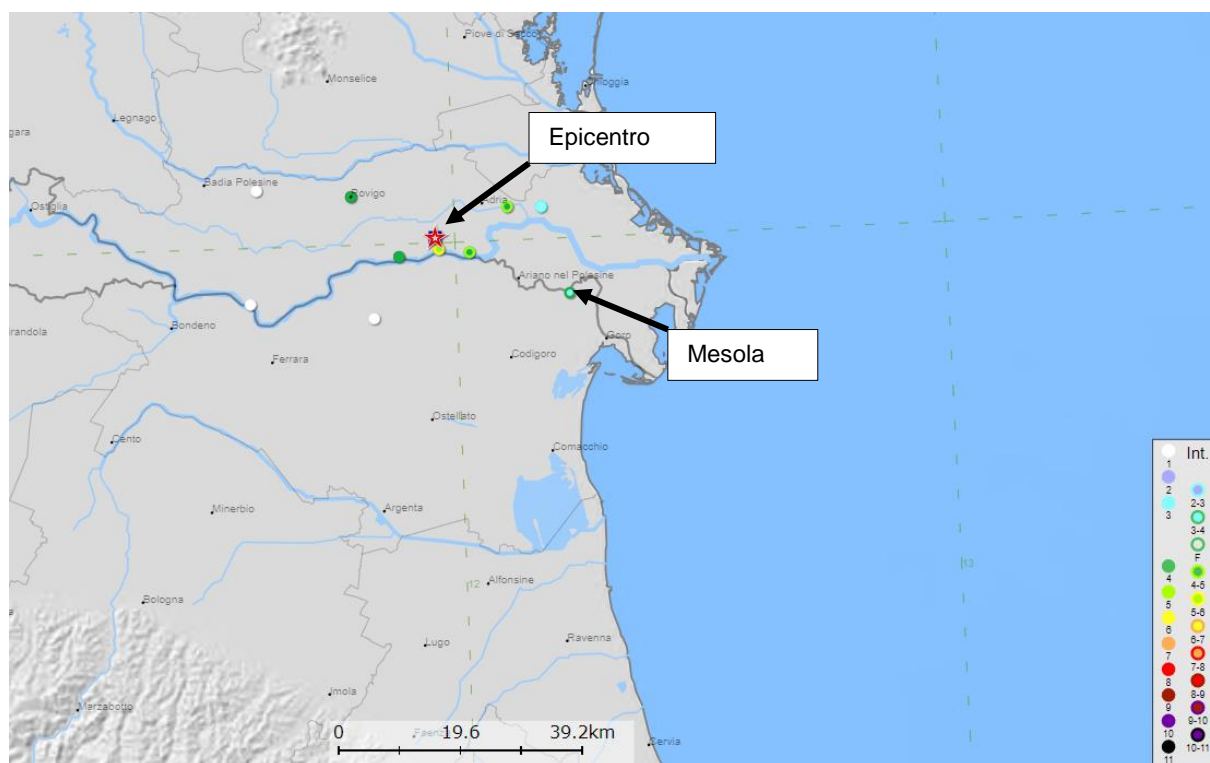


Figura 13 – distribuzione dei risentimenti dell'evento del 1895 – Villanova Marchesana in scala libera. Come tratto dal sito dell'I.N.G.V. (DBMI15).

Durante il terremoto del 2002 – Ferrarese (IS 4, M 4.21 ± 0.10), il Comune di Mesola ha avuto un valore di IS di 3.

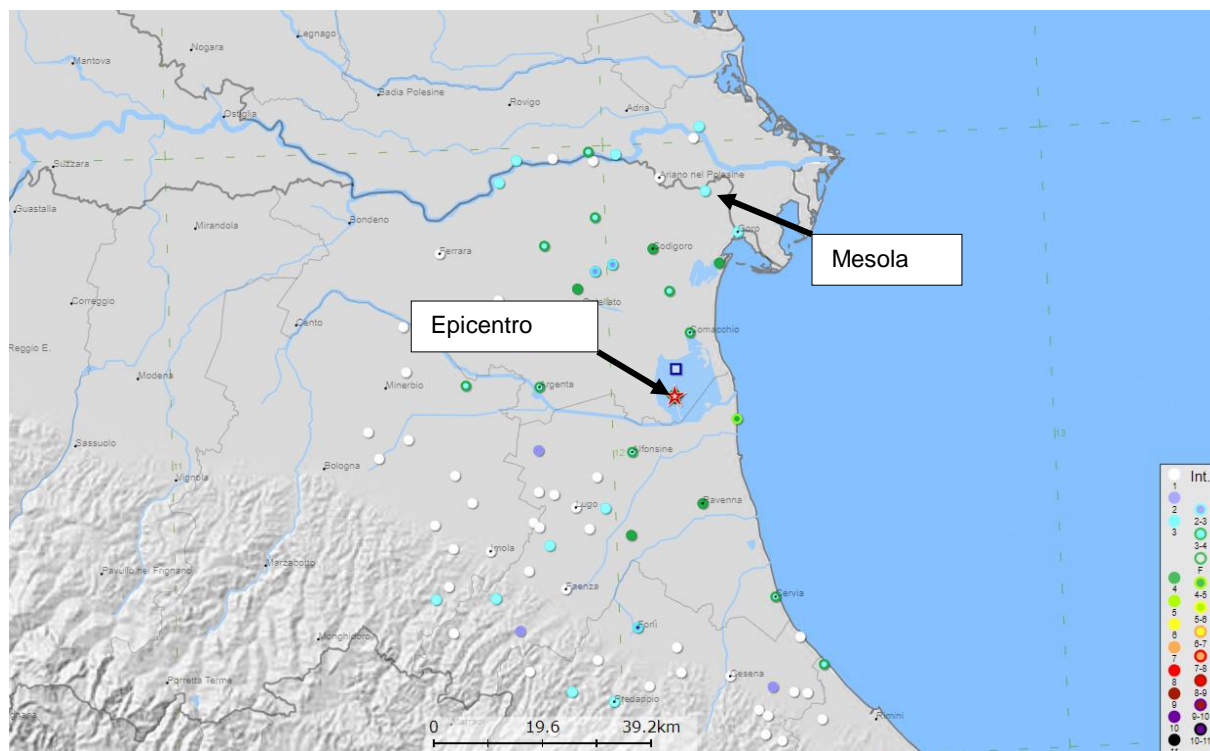


Figura 14 – distribuzione dei risentimenti dell'evento del 1781 – Faentino in scala libera. Come tratto dal sito dell'I.N.G.V. (DBMI15).

Evidentemente occorrerà aggiungere come gli eventi sismici del 20-29/05/2012, nonché la prolungata sequenza sismica annessa, abbiano profondamente “aggiornato” la sismicità della Pianura Padana.

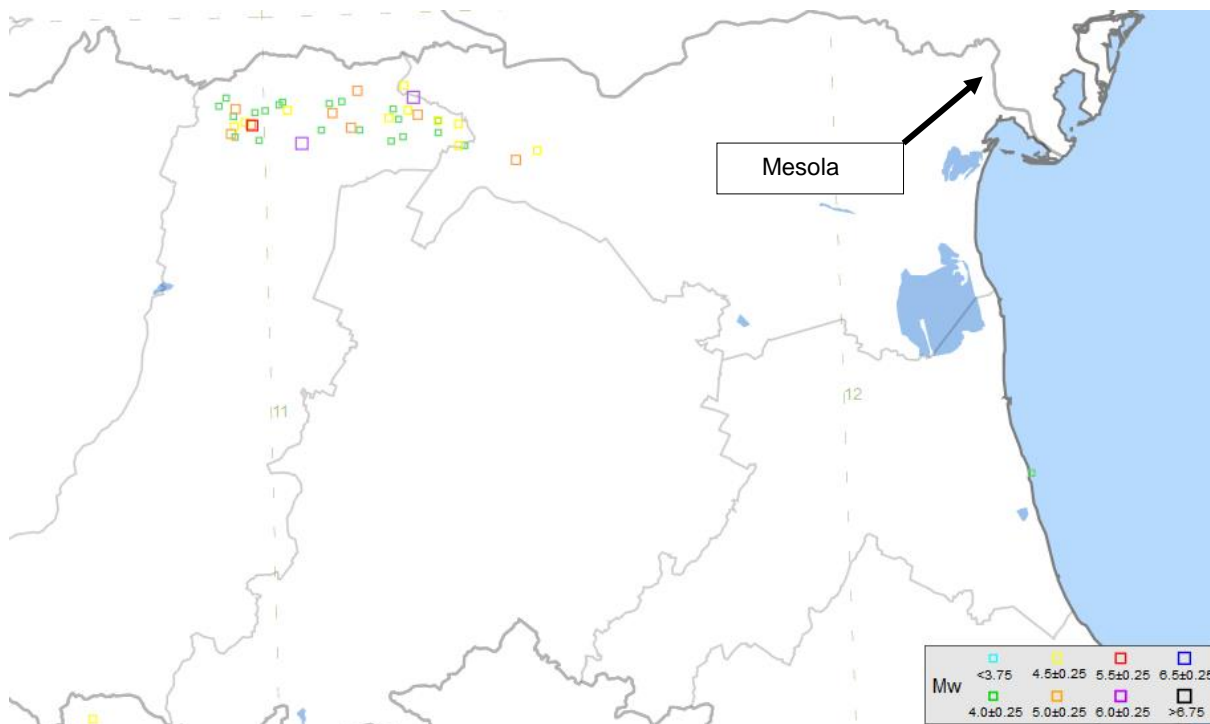


Figura 15 – Sismicità recente in Emilia-Romagna in scala libera

6.5 DISAGGREGAZIONE STATISTICO- PROBABILISTICA DEI DATI SISMICI

Come visto nel capitolo precedente, il territorio del Comune di Mesola non è stato sede di epicentri di eventi sismici e si è già potuta constatare la complessità geologica profonda, caratterizzata da sovrascorrimenti riattivati nel territorio della provincia di Ferrara.

Da una analisi di disaggregazione statistico- probabilistica dei dati sismici relativi a distanza e valori di magnitudo ed avente come riferimento l'area in esame (analisi che verrà di seguito riportata) si può evincere che, con un tempo di ritorno di 50 anni:

1. il valore di M avente localmente maggiori probabilità di ripetersi è pari a 5,00 e ha una probabilità di accadimento del 9-11% tra 20-30 km;
2. i valori di M =5,50 hanno una probabilità di accadimento di 5-7% tra 20-30 km;
3. i valori di M =4,50 hanno una probabilità di accadimento di 4-5% tra 20-30 km;
4. i valori di M=6 ha una probabilità di accadimento del 3-4% tra 20-30 km;

Si ricorda l'evento con magnitudo massima del 2002 con un valore di M pari a 4,21.

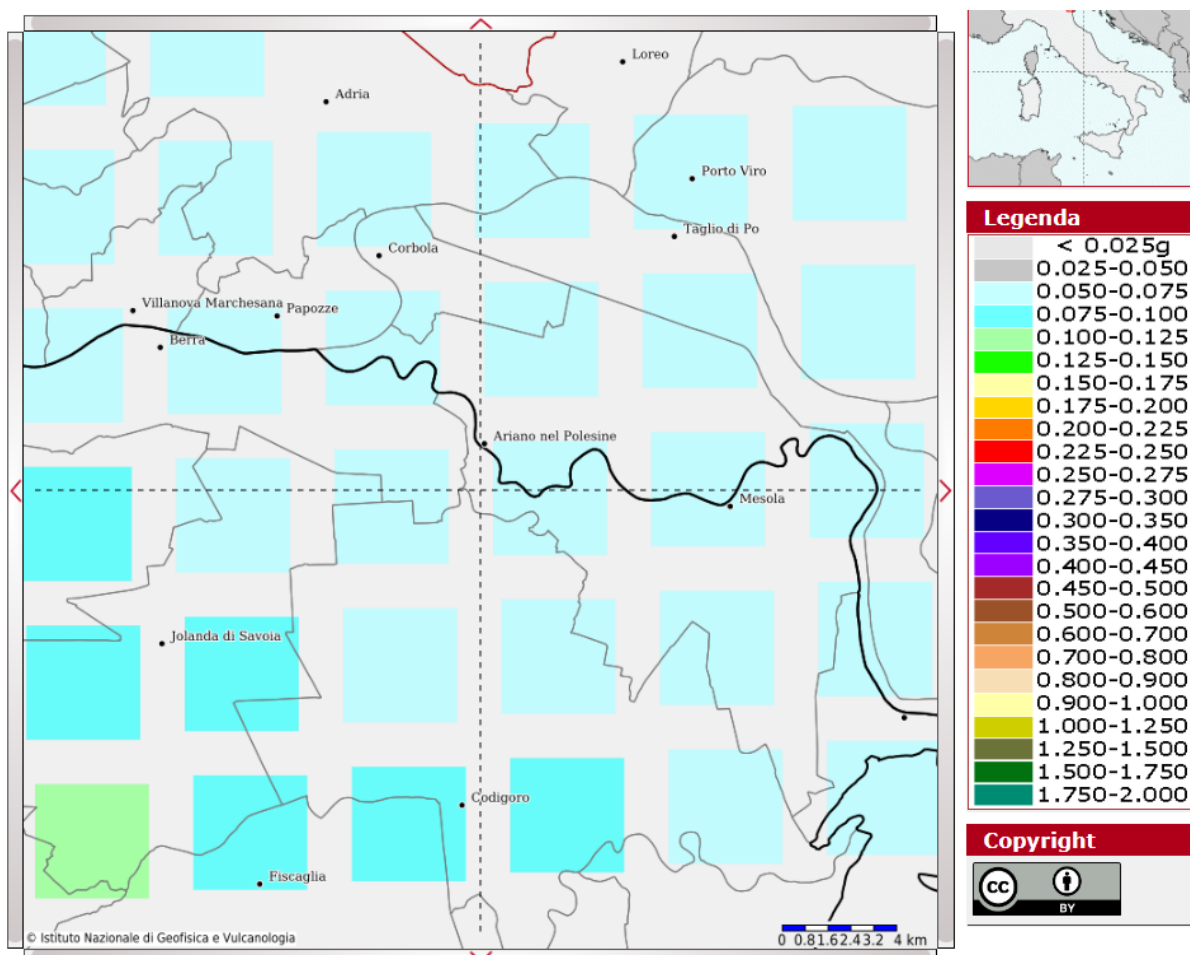


Figura 16 – Pericolosità sismica in prossimità dell'area di studio

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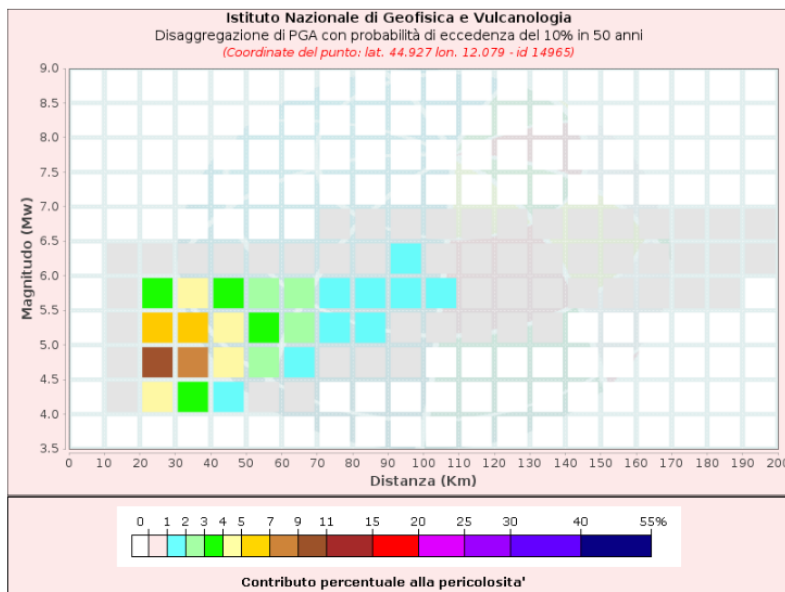


Figura 17 – Probabilità del verificarsi di un evento sismico in prossimità dell'area di studio

| Disaggregazione di PGA con probabilità di eccedenza del 10% in 50 anni (Coordinate del punto: lat. 44.927 lon. 12.079 - id 14965) | | | | | | | | | | | |
|--|----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Distanza (Km) | Magnitudo (Mw) | | | | | | | | | | |
| | 3.5- 4.0 | 4.0- 4.5 | 4.5- 5.0 | 5.0- 5.5 | 5.5- 6.0 | 6.0- 6.5 | 6.5- 7.0 | 7.0- 7.5 | 7.5- 8.0 | 8.0- 8.5 | 8.5- 9.0 |
| 0-10 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 10-20 | 0.0000 | 0.0354 | 0.0679 | 0.0390 | 0.0185 | 0.0021 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 20-30 | 0.0000 | 4.5400 | 9.8000 | 6.6200 | 3.6400 | 0.4560 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 30-40 | 0.0000 | 3.1100 | 8.0300 | 6.7800 | 4.5300 | 0.6380 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 40-50 | 0.0000 | 1.4700 | 4.6800 | 4.8800 | 3.8800 | 0.6050 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 50-60 | 0.0000 | 0.5330 | 2.4700 | 3.2000 | 2.9800 | 0.5070 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 60-70 | 0.0000 | 0.0564 | 1.1500 | 2.3800 | 2.3700 | 0.3130 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 70-80 | 0.0000 | 0.0000 | 0.3750 | 1.6900 | 1.9700 | 0.4010 | 0.0317 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 80-90 | 0.0000 | 0.0000 | 0.1030 | 1.2400 | 1.9000 | 0.8560 | 0.1280 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 90-100 | 0.0000 | 0.0000 | 0.0072 | 0.6900 | 1.5500 | 1.0100 | 0.1730 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 100-110 | 0.0000 | 0.0000 | 0.0000 | 0.2890 | 1.1100 | 0.9950 | 0.1830 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 110-120 | 0.0000 | 0.0000 | 0.0000 | 0.0908 | 0.7040 | 0.9400 | 0.1860 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 120-130 | 0.0000 | 0.0000 | 0.0000 | 0.0182 | 0.4040 | 0.7430 | 0.1570 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 130-140 | 0.0000 | 0.0000 | 0.0000 | 0.0006 | 0.2070 | 0.4940 | 0.1070 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 140-150 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0982 | 0.3320 | 0.0754 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 150-160 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0453 | 0.2340 | 0.0589 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 160-170 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0228 | 0.2070 | 0.0603 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 170-180 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0062 | 0.1300 | 0.0426 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 180-190 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0006 | 0.0790 | 0.0299 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 190-200 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0342 | 0.0154 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

| Valori Medi | | |
|-------------|----------|---------|
| Magnitudo | Distanza | Epsilon |
| 5.26 | 50.8 | 1.49 |

Figura 18 – Probabilità del verificarsi di un evento sismico

6.6 SUSCETTIBILITA' ALLA LIQUEFAZIONE DEGLI ORIZZONTI SATURI GRANULARI LOCALMENTE RILEVATI

Il fenomeno della liquefazione determina una diminuzione della resistenza al taglio e/o della rigidità, nei litotipi granulari, causata dall'aumento di pressione interstiziale in un terreno saturo non coesivo durante lo scuotimento sismico e tale da generare deformazioni permanenti significative o persino l'annullamento degli sforzi efficaci nel terreno. Le Norme Tecniche annesse alla vigente Normativa Sismica (NTA 2018 capitolo 7.11.3.4) permettono di omettere la verifica a liquefazione quando si manifesti almeno una delle seguenti circostanze:

1. accelerazioni massime attese al piano campagna in assenza di manufatti (condizioni di campo libero) minori di 0,1g;
2. profondità media stagionale della falda superiore a 15 m dal piano campagna, per piano campagna sub-orizzontale e strutture con fondazioni superficiali;
3. depositi costituiti da sabbie pulite con resistenza penetrometrica normalizzata $(N1)_{60} > 30$ oppure $qc_{1N} > 180$ dove $(N1)_{60}$ è il valore della resistenza determinata in prove penetrometriche dinamiche (Standard Penetration Test) normalizzata ad una tensione efficace verticale di 100 kPa e qc_{1N} è il valore della resistenza determinata in prove penetrometriche statiche (Cone Penetration Test) normalizzata ad una tensione efficace verticale di 100 kPa;
4. distribuzione granulometrica esterna alle zone indicate nella Figura 7.11.1(a) nel caso di terreni con coefficiente di uniformità $U_c < 3,5$ ed in Figura 7.11.1(b) nel caso di terreni con coefficiente di uniformità $U_c > 3,5$.

Inoltre secondo l'Ordinanza 3274, 3316 e s.m.i. impongono detta verifica quando *"la falda freatica si trovi in prossimità della superficie (p.c.) ed il terreno di fondazione comprenda **strati estesi o lenti spesse di sabbie sciolte sotto falda**, anche se contenenti una frazione fine limo-argillosa"*.

"Nel caso di edifici con fondazioni superficiali tale verifica può essere omessa per litotipi suscettibili che si trovino a profondità maggiore di 15 m dal p.c.".

"Tale verifica si può altresì omettere nel caso $S_a < 0,15$ g e contemporaneamente il litotipo potenzialmente liquefacibile soddisfi almeno una delle seguenti condizioni:

1. *contenuto d'argilla $> 20\%$ con IP (Indice Plastico) > 10 ;*
2. *contenuto di limo $> 35\%$ e $N_{spt} > 20$;*
3. *frazione fine trascurabile e $N_{spt} > 25$ ",*

(dove IP =Indice Plastico, N_{spt} =Resistenza Penetrometrica normalizzata alla prova N_{spt} in foro)

Da quanto emerso da ricostruzione lito-stratigrafica delle prove eseguite, si rileva la presenza fino a -10,00/-11,00 m dal p.c. di litotipi argillo-limosi (tranne nella prova CPTU4 che vengono rilevati più superficialmente già a -4,00 m dal p.c.) e a seguire una alternanza di litotipi maggiormente sabbiosi e sabbio-limosi, risultati avere un valore di F_s prossimo a 1, intercalati a livelli argillo-limosi di spessore variabile.

Autori quali Crespellani, Sheriff, Ishibashi ed altri riportano che, per le energie sismiche attese per l'area in esame, uno spessore pari a circa cinque metri di materiale non liquefacibile sovrastante la

lente granulare eventualmente liquefacibile, svolge un'azione di contrasto sufficiente a far sì che gli effetti di una eventuale liquefazione non vengano trasmessi alla superficie.

A questo punto occorre riportare alcune considerazioni circa la determinazione del terremoto di progetto, a partire dal valore di M utilizzato per il calcolo in esame. Per la presente verifica si adatterà il valore di 6,1 precedentemente descritto. Sulla scorta del Catalogo CTPI15 si potrà rilevare come il Comune di Mesola sia stato sottoposto ad eventi sismici di Magnitudo (Richter) massima pari a 4,21.

Si osservi che essendo la scala di M logaritmica, il valore di 6,14 risulta quindi essere estremamente penalizzante.

Ad ulteriore penalizzazione nella verifica la falda è stata posta alla profondità assolutamente penalizzante di -1,00 m dal p.c.

La verifica alla liquefazione è stata eseguita mediante il metodo di calcolo Robertson et Al. (1998) per il calcolo dell'indice di potenziale liquefazione (LPI) sia per la magnitudo massima attesa per la ZS 912/914 (M=6.14) che per valori inferiori con maggior probabilità di accadimento con indicato al paragrafo precedente (M=5.00) fino alla profondità di -15 m dal p.c. per tutte le CPTU eseguite.

Inoltre, si è provveduto ad un approfondimento sismico di III livello con la redazione dello studio di risposta sismica locale (Allegato 3). È stato calcolato un valore di $S^*_{ag/g}$ pari a 0,170 (valore del 90° percentile che deriva dallo studio RSL)

Il calcolo del LPI utilizza la metodologia sviluppata da Iwasaki (1982) ed è adottata da AFPS. Per stimare la gravità della liquefazione in un dato sito, LPI è calcolato in base alla seguente equazione:

$$LPI = \int_0^{20} (10 - 0,5z) \times F_z \times dz$$

- $FL = 1 - F.S.$ quando F.S. è inferiore a 1;
- $FL = 0$ quando F.S. è superiore a 1;
- Z = profondità (m).

Il valore di LPI può variare tra 0 (quando non ci sono spessori in cui si rileva liquefazione) e 100 (tutti gli spessori sono caratterizzati da una suscettibilità alla liquefazione). Iwasaki propone 4 categorie basate sul valore di LPI:

- $LPI = 0$ Rischio di liquefazione è molto basso;
- $0 < LPI \leq 5$ Rischio di liquefazione è basso;
- $5 < LPI \leq 15$ Rischio di liquefazione è alto;
- $LPI > 15$ Rischio di liquefazione è molto alto.

La D.G.R. 467/2021, delibera di aggiornamento della D.G.R. 630/2019, in base al valore stimato dell'indice del potenziale di liquefazione IL si definisce le classi di pericolosità (Sonmez, 2003):

| | |
|------------------|-------------------------------------|
| IL = 0 | Non liquefacibile ($FL \geq 1.2$) |
| $0 < IL \leq 2$ | Potenziale basso |
| $2 < IL \leq 5$ | Potenziale moderato |
| $5 < IL \leq 15$ | Potenziale alto |
| $15 < IL$ | Potenziale molto alto |

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PARCO FOTOVOLTAICO E RELATIVE OPERE DI CONNESSIONE ALLA RTN
DI POTENZA PARI A 5,12 MW NEL COMUNE DI MESOLA (FE)
RELAZIONE DI MODELLAZIONE GEOLOGICA E SISMICA E DI PRIME CONSIDERAZIONE GEOTECNICHE

Si riporta una tabella di sintesi i valori dell'indice del potenziale di liquefazione ILP mentre in Allegato 4 vengono riportate le risultanze delle verifiche effettuate.

| CPTU | M=6.14 | M=6.00 | M=5.75 | M=5.50 | M=5.00 |
|-------|--------|--------|--------|--------|--------|
| CPTU1 | 0,24 | 0,12 | 0,02 | 0,00 | 0,00 |
| CPTU2 | 1,48 | 1,04 | 0,39 | 0,05 | 0,00 |
| CPTU3 | 1,04 | 0,64 | 0,16 | 0,02 | 0,00 |
| CPTU4 | 2,05 | 1,33 | 0,51 | 0,07 | 0,00 |

Si può concludere quanto segue:

- Sulla scorta del Catalogo degli eventi sismici succedutisi in Italia dal 1000 ad oggi si potrà rilevare come il Comune di Mesola in realtà sia stato sottoposto ad eventi sismici di Magnitudo (Richter) **massima pari a 4,21** (2002) e che il valore di M avente localmente **maggiori probabilità di ripetersi è pari a 5,00**;
- **Si osservi che essendo la scala di M logaritmica, il valore di 6,14 risulta quindi essere estremamente penalizzante;**
- **È stata ipotizzata una profondità del livello della falda freatica a -1,00 m dal p.c. per effetto della sua risalita in caso di evento sismico e quindi essere estremamente penalizzante in quanto mediamente le oscillazioni stagionali si attesterebbero mediamente tra -1,50/-4,00 m dal p.c. come riportato al paragrafo 5;**
- Autori quali Crespellani, Sheriff, Ishibashi ed altri riportano che, per le energie sismiche attese per l'area in esame, uno spessore pari a circa tre/cinque metri di materiale non liquefacibile sovrastante la lente granulare eventualmente liquefacibile, svolge un'azione di contrasto sufficiente a far sì che gli effetti di una eventuale liquefazione non vengano trasmessi alla superficie come indicato nella figura successive;
- Nelle CPTU1, CPTU2 e CPTU3 si sono rilevati sostanzialmente livelli potenzialmente liquefacibili nell'orizzonte sabbioso e sabbio-limoso posto da -10,00/-11,00 m dal p.c. e i terreni sovrastanti fungeranno da azione di contrasto alla trasmissione in superficie degli effetti di una eventuale liquefazione.
- Nella CPTU4 si sono rilevati sostanzialmente livelli potenzialmente liquefacibili nell'orizzonte sabbioso e sabbio-limoso posto da -4,00 m dal p.c. e i terreni sovrastanti fungeranno da azione di contrasto alla trasmissione in superficie degli effetti di una eventuale liquefazione.
- L'indice ILP è risultato BASSO nella CPTU1, CPTU2 e CPTU3 e al limite del BASSO per M=6.14 (ILP=2,05) nella CPTU4.

Qui sotto viene inoltre riportato il Metodo di Sherif e Ishibashi (1978), fonte bibliografica di riferimento per le prime valutazioni sul tema della liquefazione che indica che gli strati non sono liquefacibili.

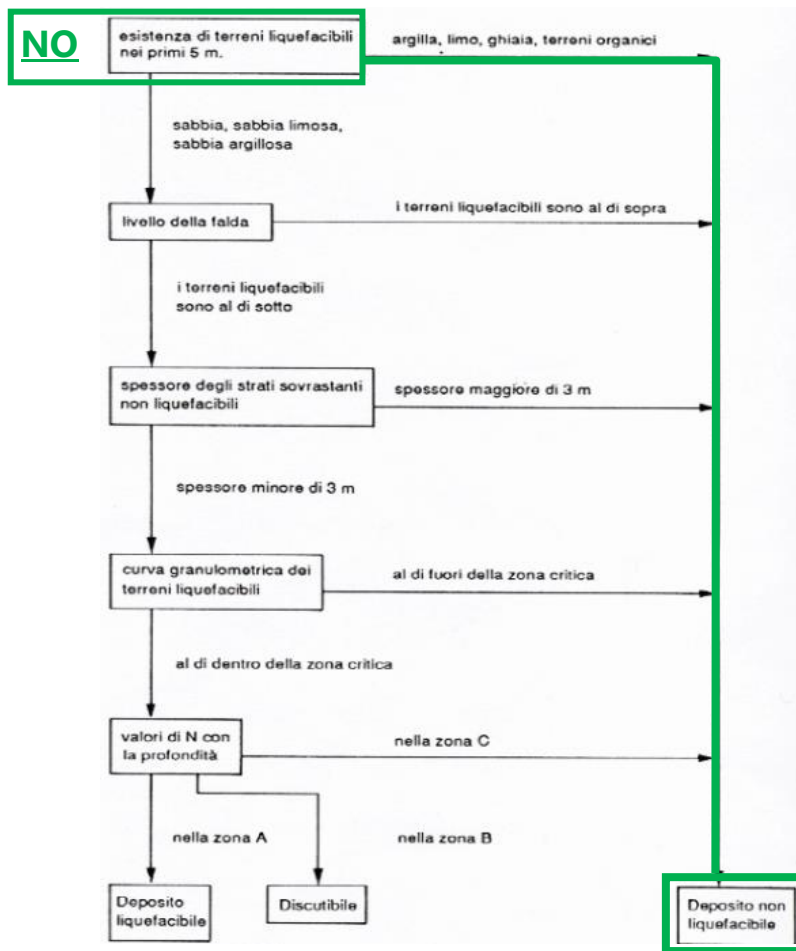


Figura 19 – Metodo Sherif-Ishibashi (1978) – Tabella A

Allegato 1

**Ubicazione prove e restituzione
grafica**

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Azzeramento
Ultimo taratura guadagno
Ultimo taratura per deriva termica

Tecnopenta 100707
Inizio prova
12-apr-2023
12-apr-2023



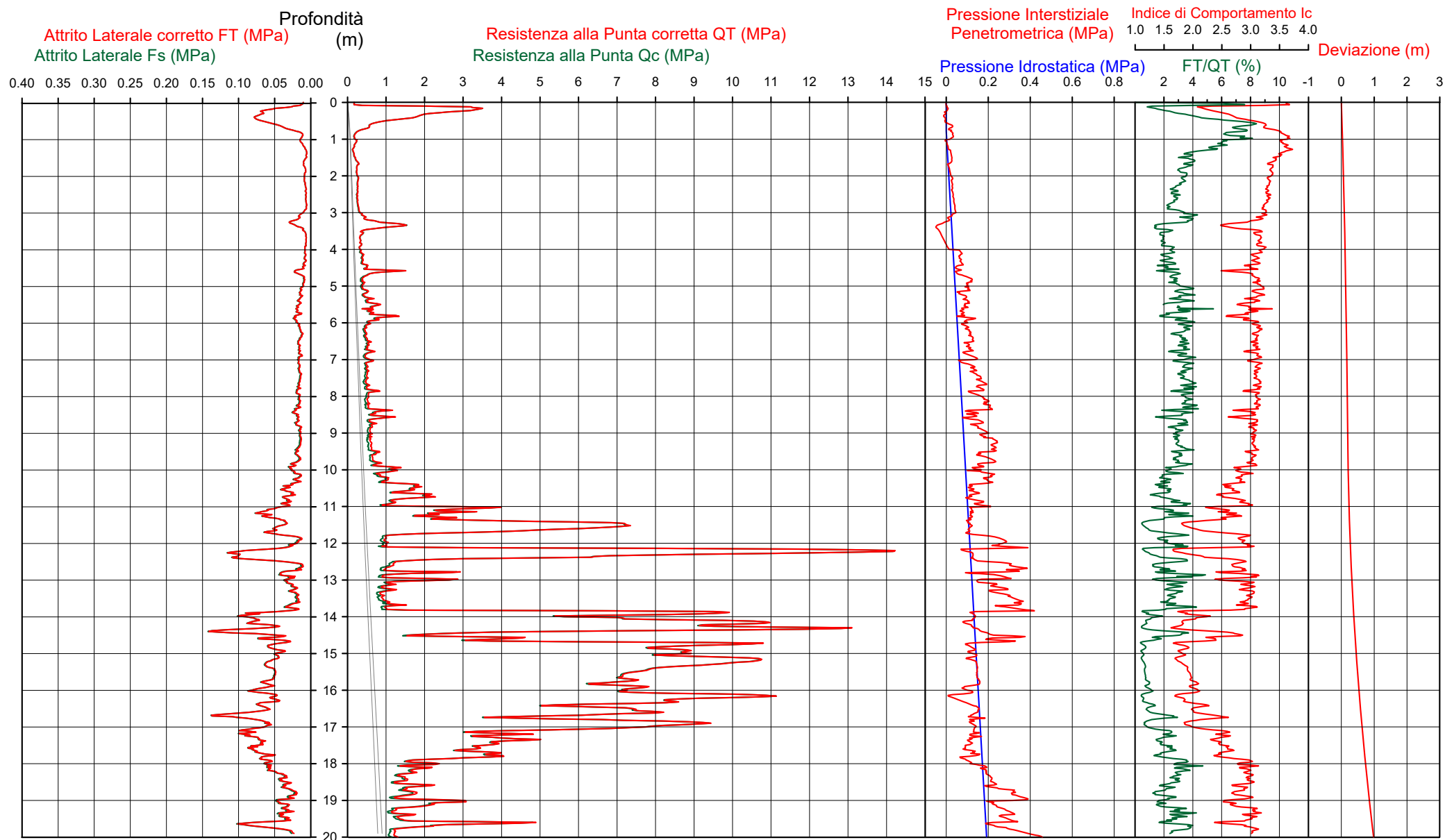
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| 125 |

| qt | Qc1N Idriss & Boulanger 2004 | ft | FT/Qnet | lc | Litologia Idriss iterazione basato su Fr vs Qc1N | H | Litologia grafica | Falda idrica | Addensamento (Sabbia) Consistenza (Argilla) | Densità Relativa Tatsuoka 1990 | Angolo Attrito φ' Kulhawy & Mayne 1990 | Coesione non drenato Cu Benassi | OCR Marchi / SGT | Modulo Edometrico M Benassi | Velocità Vs Robertson & Cabal 2009 |
|---------|------------------------------------|---------|---------|-------------------|---|------|-------------------------|-----------------|--|---|---|--|------------------------|--------------------------------------|---|
| daN/cm² | | daN/cm² | % | Idriss iterazione | | m | | | | % | | daN/cm² | | daN/cm² | m/sec |
| 21.9 | 37.2 | 0.42 | 3.0 | 2.64 | limo argilloso-argilla limosa | 0.00 | ===== | | Solido-plastica (Duro) | . | . | 1.13 | 49.07 | 128.3 | 152 |
| | | | | | | 0.30 | ===== | | | | | | | | |
| 16.0 | 27.1 | 0.74 | 4.9 | 2.79 | limo argilloso-argilla limosa | 0.50 | ===== | | Plastica | . | . | 0.92 | 58.56 | 91.4 | 160 |
| 6.3 | 10.8 | 0.48 | 7.7 | 3.22 | argilla-argilla limosa | 0.70 | ===== | | Molle-plastica (Soffice) | . | . | 0.45 | 14.82 | 47.2 | 132 |
| 2.7 | 4.5 | 0.18 | 7.0 | 3.51 | argilla-argilla limosa | 0.90 | ===== | H2O | Fluido-plastica (Molto Soffice) | . | . | 0.21 | 5.40 | 19.2 | 99 |
| 1.9 | 3.2 | 0.11 | 6.7 | 3.61 | terreni organici-torbe | 1.30 | ----- ----- ----- | | Fluida | . | . | 0.15 | 2.51 | 13.3 | 87 |
| 2.5 | 4.2 | 0.07 | 3.4 | 3.34 | argilla-argilla limosa | 2.90 | ===== | | Fluido-plastica (Molto Soffice) | . | . | 0.19 | 1.52 | 15.2 | 84 |
| 3.9 | 6.6 | 0.14 | 3.9 | 3.21 | argilla-argilla limosa | 3.20 | ===== | | Fluido-plastica (Molto Soffice) | . | . | 0.29 | 2.27 | 24.4 | 97 |
| 11.3 | 19.1 | 0.24 | 2.4 | 2.71 | limo argilloso-argilla limosa | 3.40 | ===== | | Plastica | . | . | 0.72 | 6.44 | 53.9 | 125 |
| 3.9 | 6.6 | 0.08 | 2.5 | 3.11 | argilla-argilla limosa | 4.50 | ===== | | Fluido-plastica (Molto Soffice) | . | . | 0.29 | 3.22 | 18.9 | 88 |
| 9.2 | 15.6 | 0.17 | 2.3 | 2.81 | limo argilloso-argilla limosa | 4.60 | ===== | | Molle-plastica (Soffice) | . | . | 0.61 | 4.89 | 41.9 | 119 |
| 4.7 | 8.0 | 0.13 | 3.3 | 3.10 | argilla-argilla limosa | 5.40 | ===== | | Fluido-plastica (Molto Soffice) | . | . | 0.35 | 3.16 | 28.5 | 97 |
| 7.3 | 12.4 | 0.18 | 3.0 | 2.93 | limo argilloso-argilla limosa | 5.90 | ===== | | Molle-plastica (Soffice) | . | . | 0.51 | 2.94 | 43.2 | 110 |
| 5.7 | 9.7 | 0.18 | 3.8 | 3.07 | argilla-argilla limosa | 6.10 | ===== | | Molle-plastica (Soffice) | . | . | 0.41 | 2.56 | 35.4 | 105 |
| 4.7 | 8.0 | 0.13 | 3.5 | 3.12 | argilla-argilla limosa | 6.40 | ===== | | Fluido-plastica (Molto Soffice) | . | . | 0.35 | 1.85 | 29.0 | 96 |
| 5.3 | 8.9 | 0.16 | 3.8 | 3.10 | argilla-argilla limosa | 8.30 | ===== | | Molle-plastica (Soffice) | . | . | 0.39 | 1.80 | 33.2 | 100 |
| 8.1 | 12.3 | 0.20 | 3.2 | 2.93 | limo argilloso-argilla limosa | 8.60 | ===== | | Molle-plastica (Soffice) | . | . | 0.55 | 2.45 | 47.5 | 115 |
| 6.5 | 9.3 | 0.17 | 3.3 | 3.05 | argilla-argilla limosa | 9.90 | ===== | | Molle-plastica (Soffice) | . | . | 0.46 | 1.64 | 39.2 | 106 |
| 10.9 | 14.2 | 0.21 | 2.3 | 2.81 | limo argilloso-argilla limosa | | ===== | | Plastica | . | . | 0.70 | 3.09 | 49.8 | 123 |

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| 125 |

| qt | Qc1N Idriss & Boulanger 2004 | ft | FT/Qnet | lc | Litologia Idriss iterazione basato su Fr vs Qc1N | H m | Litologia grafica | Falda idrica | Addensamento (Sabbia) Consistenza (Argilla) | Densità Relativa Tatsuoka 1990 % | Angolo Attrito φ' Kulhawy & Mayne 1990 | Coesione non drenato Cu Benassi daN/cm ² | OCR Marchi / SGT | Modulo Edometrico M Benassi daN/cm ² | Velocità Vs Robertson & Cabal 2009 m/sec |
|---------------------|---------------------------------------|---------------------|---------|-------------------|---|--------|-------------------|-----------------|--|--|---|---|------------------------|---|--|
| daN/cm ² | | daN/cm ² | % | Idriss iterazione | | | | | | | | | | | |
| | | | | | | 10.40 | | | | | | | | | |
| 18.0 | 22.5 | 0.31 | 1.9 | 2.60 | sabbia limosa-limo sabbioso | 10.50 | | | Sciolti | 17.8 | 32.2 | | | 73.4 | 145 |
| 15.5 | 19.4 | 0.35 | 2.6 | 2.73 | limo argilloso-argilla limosa | 10.60 | | | Plastica | | | 0.90 | 3.75 | 77.6 | 144 |
| 18.2 | 22.4 | 0.25 | 1.6 | 2.55 | sabbia limosa-limo sabbioso | 10.70 | | | Sciolti | 17.6 | 32.2 | | | 67.3 | 141 |
| 14.5 | 17.8 | 0.33 | 2.9 | 2.79 | limo argilloso-argilla limosa | | | | Plastica | | | 0.86 | 4.30 | 81.4 | 143 |
| | | | | | | 11.00 | | | | | | | | | |
| 31.2 | 36.5 | 0.52 | 1.9 | 2.42 | sabbia limosa-limo sabbioso | 11.10 | | | Sciolti | 33.7 | 34.7 | | | 126.1 | 174 |
| 24.1 | 28.3 | 0.64 | 3.0 | 2.64 | limo argilloso-argilla limosa | 11.30 | | | Solido-plastica (Duro) | | | 1.20 | 5.89 | 141.2 | 173 |
| 53.1 | 58.9 | 0.44 | 1.0 | 2.09 | sabbia limosa-limo sabbioso | | | | Mediamente Addensata | 49.6 | 37.1 | | | 173.5 | 181 |
| | | | | | | 11.70 | | | | | | | | | |
| 11.4 | 13.1 | 0.26 | 2.7 | 2.88 | limo argilloso-argilla limosa | | | | Plastica | | | 0.72 | 3.35 | 59.4 | 129 |
| | | | | | | 12.10 | | | | | | | | | |
| 95.0 | 99.9 | 0.90 | 1.1 | 1.94 | sabbia-sabbia limosa | | | | Addensata | 67.0 | 39.7 | | | 314.9 | 224 |
| | | | | | | 12.40 | | | | | | | | | |
| 13.8 | 14.9 | 0.30 | 2.7 | 2.83 | limo argilloso-argilla limosa | | | | Plastica | | | 0.83 | 3.79 | 72.2 | 138 |
| | | | | | | 13.30 | | | | | | | | | |
| 8.9 | 9.3 | 0.19 | 2.9 | 3.01 | argilla-argilla limosa | 13.50 | | | Molle-plastica (Soffice) | | | 0.59 | 1.61 | 49.9 | 120 |
| 10.6 | 11.0 | 0.22 | 2.7 | 2.93 | limo argilloso-argilla limosa | | | | Plastica | | | 0.68 | 1.81 | 55.7 | 128 |
| | | | | | | 13.80 | | | | | | | | | |
| 75.0 | 75.6 | 0.71 | 1.1 | 2.03 | sabbia-sabbia limosa | | | | Mediamente Addensata | 57.7 | 38.3 | | | 246.6 | 213 |
| | | | | | | 14.10 | | | | | | | | | |
| 101.9 | 101.6 | 0.82 | 0.9 | 1.85 | sabbia-sabbia limosa | | | | Addensata | 67.5 | 39.7 | | | 326.8 | 223 |
| | | | | | | 14.40 | | | | | | | | | |
| 25.8 | 25.3 | 0.83 | 3.5 | 2.73 | limo argilloso-argilla limosa | 14.50 | | | Solido-plastica (Duro) | | | 1.25 | 4.40 | 150.1 | 189 |
| 43.1 | 42.2 | 0.44 | 1.3 | 2.29 | sabbia limosa-limo sabbioso | 14.70 | | | Mediamente Addensata | 38.5 | 35.5 | | | 149.6 | 186 |
| 88.7 | 86.6 | 0.48 | 0.6 | 1.81 | sabbia-sabbia limosa | | | | Mediamente Addensata | 62.2 | 38.9 | | | 272.5 | 202 |
| | | | | | | 15.10 | | | | | | | | | |
| 103.0 | 99.9 | 0.56 | 0.6 | 1.76 | sabbia-sabbia limosa | 15.30 | | | Addensata | 67.0 | 39.5 | | | 316.2 | 211 |
| 79.2 | 74.8 | 0.57 | 0.8 | 1.94 | sabbia-sabbia limosa | | | | Mediamente Addensata | 57.4 | 38.2 | | | 248.4 | 205 |
| | | | | | | 16.30 | | | | | | | | | |
| 68.1 | 62.7 | 0.66 | 1.1 | 2.08 | sabbia limosa-limo sabbioso | 16.50 | | | Mediamente Addensata | 51.6 | 37.3 | | | 223.2 | 209 |
| 77.4 | 71.2 | 0.68 | 0.9 | 2.00 | sabbia-sabbia limosa | 16.60 | | | Mediamente Addensata | 55.8 | 37.9 | | | 247.9 | 212 |
| 57.1 | 51.7 | 1.06 | 2.1 | 2.33 | sabbia limosa-limo sabbioso | 16.80 | | | Mediamente Addensata | 45.2 | 36.4 | | | 243.7 | 222 |
| 84.6 | 77.3 | 0.61 | 0.8 | 1.93 | sabbia-sabbia limosa | 17.00 | | | Mediamente Addensata | 58.5 | 38.3 | | | 265.2 | 212 |
| 41.7 | 36.2 | 0.79 | 2.1 | 2.46 | sabbia limosa-limo sabbioso | | | | Sciolti | 33.5 | 34.8 | | | 181.2 | 203 |
| | | | | | | 17.60 | | | | | | | | | |
| 33.0 | 27.8 | 0.76 | 2.6 | 2.60 | limo argilloso-argilla limosa | 17.70 | | | Semi solida (Molto duro) | | | 1.43 | 4.44 | 167.1 | 197 |
| 32.6 | 27.3 | 0.63 | 2.4 | 2.58 | sabbia limosa-limo sabbioso | 17.90 | | | Sciolti | 24.2 | 33.6 | | | 152.0 | 191 |
| 18.3 | 14.7 | 0.57 | 3.9 | 2.93 | limo argilloso-argilla limosa | | | | Plastica | | | 1.01 | 2.48 | 105.8 | 173 |
| | | | | | | 18.20 | | | | | | | | | |
| 14.9 | 11.7 | 0.39 | 3.4 | 2.97 | argilla-argilla limosa | | | | Plastica | | | 0.88 | 2.05 | 86.6 | 155 |
| | | | | | | 18.50 | | | | | | | | | |
| 18.5 | 14.4 | 0.32 | 2.2 | 2.80 | limo argilloso-argilla limosa | | | | Plastica | | | 1.02 | 2.22 | 81.4 | 157 |
| | | | | | | 19.20 | | | | | | | | | |
| 13.4 | 10.0 | 0.35 | 3.6 | 3.04 | argilla-argilla limosa | | | | Plastica | | | 0.81 | 1.51 | 77.7 | 150 |
| | | | | | | 19.50 | | | | | | | | | |
| 28.0 | 21.8 | 0.68 | 3.0 | 2.75 | limo argilloso-argilla limosa | 19.70 | | | Solido-plastica (Duro) | | | 1.31 | 3.12 | 161.6 | 195 |
| 13.4 | 9.8 | 0.37 | 3.6 | 3.05 | argilla-argilla limosa | | | | Plastica | | | 0.82 | 1.74 | 78.2 | 150 |

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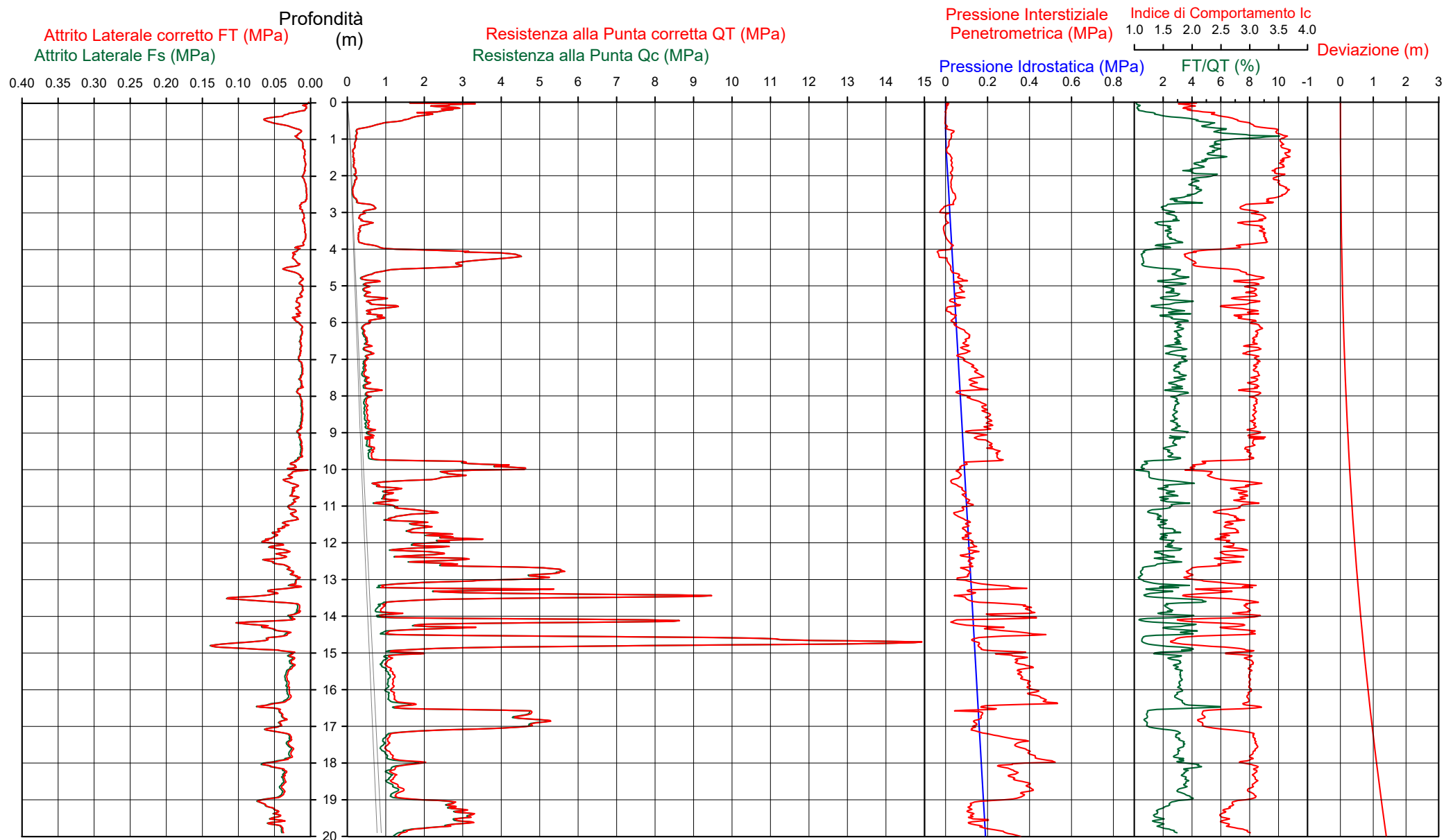


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| qt | Qc1N Idriss & Boulanger 2004 | ft | FT/Qnet | lc | Litologia Idriss iterazione basato su Fr vs Qc1N | H m | Litologia grafica | Falda idrica | Addensamento (Sabbia) Consistenza (Argilla) | Densità Relativa Tatsuoka 1990 % | Angolo Attrito ϕ' Kulhawy & Mayne 1990 | Coesione non drenato Cu Benassi | OCR Marchi / SGT | Modulo Edometrico M Benassi | Velocità Vs Robertson & Cabal 2009 m/sec |
|---------------------|------------------------------------|------|---------|-------------------|---|--------|-------------------|-----------------|--|--|---|--|------------------------|--------------------------------------|---|
| daN/cm ² | daN/cm ² | % | | Idriss iterazione | | | | | | | | daN/cm ² | | daN/cm ² | |
| 25.8 | 43.9 | 0.06 | 0.2 | 1.93 | sabbia-sabbia limosa | 0.00 | | | Mediamente Addensata | 39.8 | 42.8 | . | . | 77.7 | 119 |
| 21.0 | 35.8 | 0.29 | 1.5 | 2.33 | sabbia limosa-limo sabbioso | 0.20 | | | Scioltà | 33.1 | 39.3 | . | . | 75.1 | 139 |
| 15.5 | 26.4 | 0.62 | 4.0 | 2.74 | limo argilloso-argilla limosa | 0.40 | | | Plastica | . | . | 0.90 | 46.00 | 89.8 | 154 |
| 7.9 | 13.4 | 0.40 | 5.2 | 3.06 | argilla-argilla limosa | 0.50 | | | Molle-plastica (Soffice) | . | . | 0.54 | 21.96 | 44.9 | 131 |
| 2.3 | 3.9 | 0.14 | 6.7 | 3.53 | argilla-argilla limosa | 0.70 | | | Fluido-plastica (Molto Soffice) | . | . | 0.18 | 3.73 | 16.4 | 94 |
| 1.6 | 2.7 | 0.09 | 6.3 | 3.64 | terreni organici-torbe | 1.20 | | | Fluida | . | . | 0.13 | 2.05 | 11.3 | 82 |
| 1.8 | 3.0 | 0.07 | 5.0 | 3.58 | argilla-argilla limosa | 1.50 | | | Fluida | . | . | 0.14 | 1.87 | 11.6 | 80 |
| 2.2 | 3.8 | 0.09 | 4.8 | 3.46 | argilla-argilla limosa | 1.80 | | | Fluido-plastica (Molto Soffice) | . | . | 0.18 | 2.13 | 14.6 | 86 |
| 1.9 | 3.2 | 0.07 | 4.7 | 3.52 | argilla-argilla limosa | 2.10 | | | Fluida | . | . | 0.15 | 1.78 | 12.2 | 79 |
| 1.4 | 2.5 | 0.06 | 5.3 | 3.64 | terreni organici-torbe | 2.30 | | | Fluida | . | . | 0.12 | 1.21 | 9.7 | 72 |
| 3.8 | 6.5 | 0.09 | 3.0 | 3.17 | argilla-argilla limosa | 2.50 | | | Fluido-plastica (Molto Soffice) | . | . | 0.29 | 1.19 | 22.1 | 90 |
| 19.4 | 32.7 | 0.19 | 1.4 | 2.41 | sabbia limosa-limo sabbioso | 3.90 | | | Scioltà | 30.1 | 34.4 | . | . | 68.4 | 127 |
| 37.5 | 61.4 | 0.22 | 0.6 | 1.96 | sabbia-sabbia limosa | 4.10 | | | Mediamente Addensata | 50.9 | 37.5 | . | . | 115.5 | 144 |
| 20.6 | 35.0 | 0.28 | 1.9 | 2.42 | sabbia limosa-limo sabbioso | 4.40 | | | Scioltà | 32.4 | 34.5 | . | . | 82.6 | 137 |
| 5.5 | 9.3 | 0.13 | 3.0 | 3.03 | argilla-argilla limosa | 4.60 | | | Molle-plastica (Soffice) | . | . | 0.40 | 3.33 | 31.9 | 101 |
| 7.0 | 12.0 | 0.17 | 3.0 | 2.93 | limo argilloso-argilla limosa | 5.10 | | | Molle-plastica (Soffice) | . | . | 0.49 | 2.20 | 40.5 | 107 |
| 4.5 | 7.6 | 0.12 | 3.6 | 3.14 | argilla-argilla limosa | 6.00 | | | Fluido-plastica (Molto Soffice) | . | . | 0.33 | 1.85 | 27.5 | 94 |
| 5.3 | 9.1 | 0.14 | 3.3 | 3.06 | argilla-argilla limosa | 6.40 | | | Molle-plastica (Soffice) | . | . | 0.39 | 1.86 | 32.4 | 99 |
| 5.5 | 8.3 | 0.13 | 3.2 | 3.07 | argilla-argilla limosa | 7.00 | | | Molle-plastica (Soffice) | . | . | 0.40 | 1.40 | 32.9 | 98 |
| 27.2 | 33.7 | 0.22 | 1.2 | 2.34 | sabbia limosa-limo sabbioso | 9.70 | | | Scioltà | 31.1 | 34.3 | . | . | 91.6 | 150 |
| 44.0 | 52.6 | 0.25 | 0.6 | 2.01 | sabbia-sabbia limosa | 10.00 | | | Mediamente Addensata | 45.8 | 36.5 | . | . | 135.2 | 160 |

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12 ottobre 2023
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| Vs20 |
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| 120 |

| qt | Qc1N Idriss & Boulanger 2004 | ft | FT/Qnet | lc | Litologia Idriss iterazione basato su Fr vs Qc1N | H | Litologia grafica | Falda idrica | Addensamento (Sabbia) | Densità Relativa Tatsuoka 1990 | Angolo Attrito φ' Kulhawy & Mayne 1990 | Coesione non drenato Cu Benassi | OCR Marchi / SGT | Modulo Edometrico M Benassi | Velocità Vs Robertson & Cabal 2009 |
|---------|------------------------------------|---------|---------|-------------------|---|-------|-------------------|-----------------|--------------------------|---|---|--|------------------------|--------------------------------------|---|
| daN/cm² | | daN/cm² | % | Idriss iterazione | | m | | | Consistenza (Argilla) | % | | daN/cm² | | daN/cm² | m/sec |
| 25.9 | 31.8 | 0.26 | 1.2 | 2.33 | sabbia limosa-limo sabbioso | 10.30 | ===== | | Scioltissima | 29.2 | 34.0 | . | . | 86.8 | 149 |
| 8.9 | 11.3 | 0.24 | 3.5 | 2.99 | argilla-argilla limosa | 10.50 | ===== | | Molle-plastica (Soffice) | . | . | 0.59 | 2.07 | 51.6 | 123 |
| 11.3 | 13.9 | 0.24 | 2.7 | 2.85 | limo argilloso-argilla limosa | 11.10 | ===== | | Plastica | . | . | 0.72 | 2.74 | 58.4 | 129 |
| 21.7 | 25.4 | 0.23 | 1.1 | 2.43 | sabbia limosa-limo sabbioso | 11.20 | ===== | | Scioltissima | 21.8 | 32.9 | . | . | 72.4 | 143 |
| 14.7 | 17.2 | 0.26 | 2.1 | 2.72 | limo argilloso-argilla limosa | 11.50 | ===== | | Plastica | . | . | 0.87 | 3.17 | 62.2 | 136 |
| 19.6 | 22.4 | 0.43 | 2.5 | 2.66 | limo argilloso-argilla limosa | 11.80 | ===== | | Plastica | . | . | 1.06 | 4.34 | 95.3 | 156 |
| 27.1 | 30.1 | 0.58 | 2.3 | 2.55 | sabbia limosa-limo sabbioso | 12.00 | ===== | | Scioltissima | 27.4 | 33.8 | . | . | 125.4 | 174 |
| 18.0 | 20.0 | 0.45 | 2.9 | 2.75 | limo argilloso-argilla limosa | 12.20 | ===== | | Plastica | . | . | 1.00 | 4.03 | 101.6 | 158 |
| 22.2 | 24.3 | 0.36 | 1.8 | 2.55 | sabbia limosa-limo sabbioso | 12.30 | ===== | | Scioltissima | 20.4 | 32.7 | . | . | 87.0 | 157 |
| 17.7 | 19.4 | 0.37 | 2.5 | 2.72 | limo argilloso-argilla limosa | 12.40 | ===== | | Plastica | . | . | 0.99 | 3.57 | 85.5 | 153 |
| 27.9 | 30.1 | 0.55 | 2.2 | 2.53 | sabbia limosa-limo sabbioso | 12.50 | ===== | | Scioltissima | 27.3 | 33.8 | . | . | 124.3 | 175 |
| 23.3 | 25.1 | 0.46 | 2.3 | 2.60 | limo argilloso-argilla limosa | 12.60 | ===== | | Solido-plastica (Duro) | . | . | 1.18 | 4.61 | 107.8 | 166 |
| 44.4 | 46.5 | 0.24 | 0.6 | 2.07 | sabbia limosa-limo sabbioso | 13.10 | ===== | | Mediamente Addensata | 41.7 | 35.9 | . | . | 137.4 | 164 |
| 10.4 | 10.9 | 0.20 | 2.6 | 2.92 | limo argilloso-argilla limosa | 13.20 | ===== | | Plastica | . | . | 0.67 | 1.95 | 51.8 | 126 |
| 35.1 | 36.2 | 0.46 | 1.7 | 2.42 | sabbia limosa-limo sabbioso | 13.40 | ===== | | Scioltissima | 33.4 | 34.7 | . | . | 134.6 | 184 |
| 80.2 | 81.4 | 0.83 | 1.2 | 2.00 | sabbia-sabbia limosa | 13.50 | ===== | | Mediamente Addensata | 60.2 | 38.6 | . | . | 269.0 | 217 |
| 21.5 | 22.0 | 0.87 | 4.8 | 2.87 | limo argilloso-argilla limosa | 13.60 | ===== | | Solido-plastica (Duro) | . | . | 1.12 | 3.91 | 123.4 | 188 |
| 9.7 | 9.8 | 0.20 | 2.7 | 2.97 | argilla-argilla limosa | 14.00 | ===== | | Molle-plastica (Soffice) | . | . | 0.64 | 1.75 | 51.4 | 124 |
| 50.6 | 50.4 | 0.52 | 1.6 | 2.28 | sabbia limosa-limo sabbioso | 14.20 | ===== | | Mediamente Addensata | 44.4 | 36.3 | . | . | 188.6 | 199 |
| 20.7 | 20.4 | 0.59 | 3.5 | 2.80 | limo argilloso-argilla limosa | 14.40 | ===== | | Solido-plastica (Duro) | . | . | 1.10 | 3.79 | 120.7 | 174 |
| 10.9 | 10.5 | 0.31 | 3.6 | 3.03 | argilla-argilla limosa | 14.50 | ===== | | Plastica | . | . | 0.70 | 1.84 | 63.1 | 137 |
| 105.1 | 103.3 | 0.78 | 0.8 | 1.86 | sabbia-sabbia limosa | 14.80 | ===== | | Addensata | 68.1 | 39.7 | . | . | 332.4 | 223 |
| 20.9 | 19.8 | 0.56 | 3.1 | 2.81 | limo argilloso-argilla limosa | 15.10 | ===== | | Solido-plastica (Duro) | . | . | 1.10 | 5.63 | 121.9 | 162 |
| 12.0 | 10.8 | 0.32 | 3.4 | 3.00 | argilla-argilla limosa | 16.50 | ===== | | Plastica | . | . | 0.75 | 1.72 | 70.1 | 141 |
| 44.0 | 39.3 | 0.43 | 1.1 | 2.26 | sabbia limosa-limo sabbioso | 17.10 | ===== | | Mediamente Addensata | 36.2 | 35.2 | . | . | 146.8 | 185 |
| 11.4 | 9.4 | 0.29 | 3.5 | 3.06 | argilla-argilla limosa | 17.90 | ===== | | Plastica | . | . | 0.72 | 2.08 | 66.4 | 139 |
| 17.6 | 14.4 | 0.49 | 3.4 | 2.90 | limo argilloso-argilla limosa | 18.00 | ===== | | Plastica | . | . | 0.98 | 2.37 | 102.4 | 166 |
| 13.1 | 10.3 | 0.41 | 4.1 | 3.06 | argilla-argilla limosa | 19.00 | ===== | | Plastica | . | . | 0.80 | 1.97 | 75.9 | 152 |
| 27.0 | 21.6 | 0.65 | 2.7 | 2.70 | limo argilloso-argilla limosa | 19.20 | ===== | | Solido-plastica (Duro) | . | . | 1.29 | 3.40 | 144.2 | 187 |
| 28.6 | 22.5 | 0.46 | 1.9 | 2.59 | sabbia limosa-limo sabbioso | 19.80 | ===== | | Scioltissima | 17.8 | 32.8 | . | . | 114.0 | 179 |
| 15.4 | 11.5 | 0.38 | 3.2 | 2.96 | argilla-argilla limosa | | ===== | | Plastica | . | . | 0.90 | 1.86 | 90.0 | 157 |

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Ariano Ferrarese
Dott.ssa Geol. Sara Bedeschi
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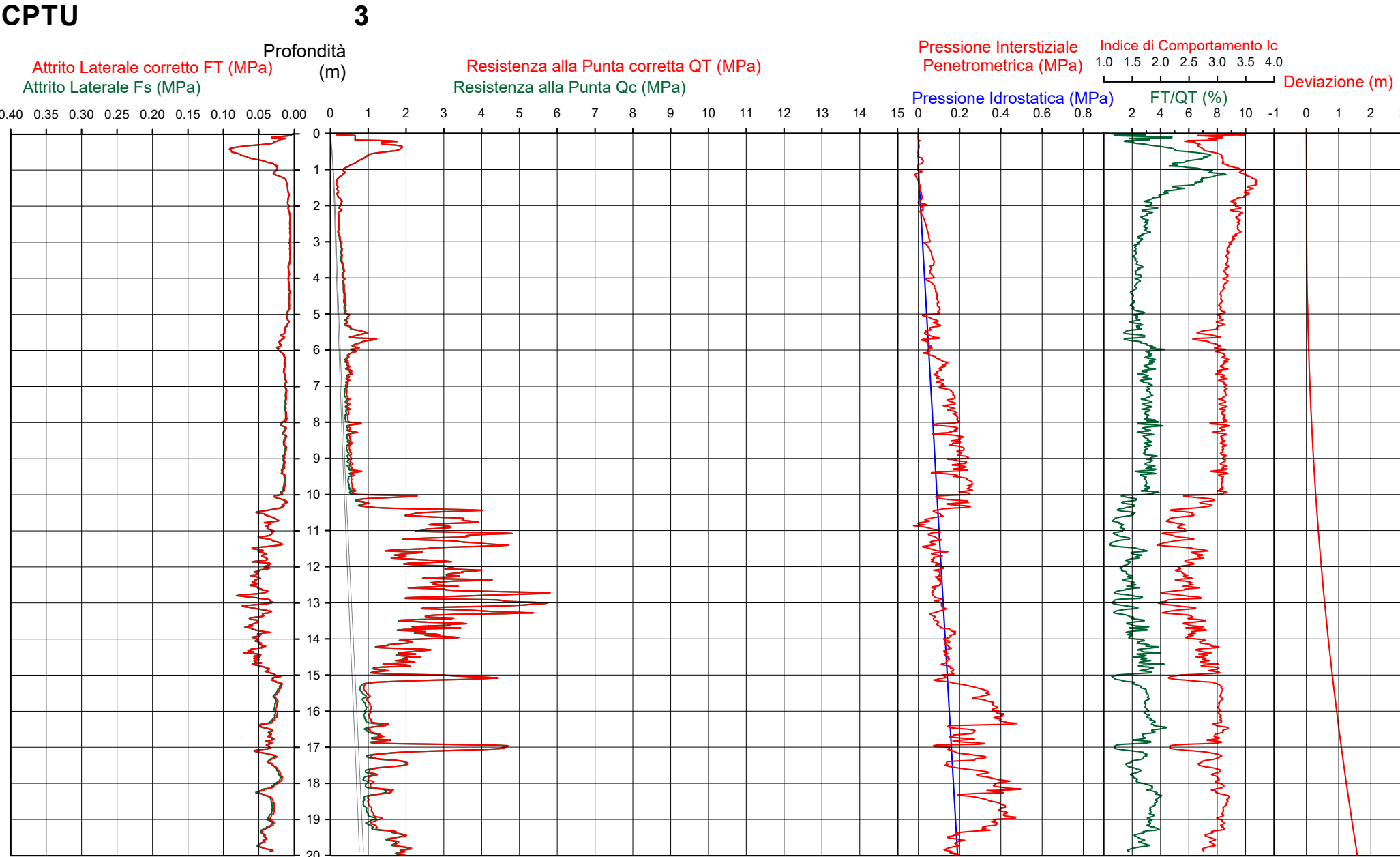
| | |
|------------------------------------|--------------------------------|
| Falda | foro chiuso e asciutto a 1.00m |
| Sigla della Punta | Tecnopenta 100707 |
| Azzeramento | Inizio prova |
| Ultimo taratura guadagno | 12-apr-2023 |
| Ultimo taratura per deriva termica | 12-apr-2023 |



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Vs20
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| qt | Qc1N Idriss & Boulanger 2004 | ft | FT/Qnet | lc | Litologia Idriss iterazione basato su Fr vs Qc1N | H | Litologia grafica | Falda idrica | Addensamento (Sabbia) Consistenza (Argilla) | Densità Relativa Tatsuoka 1990 | Angolo Attrito ϕ' Kulhawy & Mayne 1990 | Coesione non drenato Cu Benassi | OCR Marchi / SGT | Modulo Edometrico M Benassi | Velocità Vs Robertson & Cabal 2009 |
|---------------------|---------------------------------------|---------------------|---------|-----------------|---|-------|-------------------|-----------------|--|---|--|--|------------------------|--------------------------------------|---|
| daN/cm ² | | daN/cm ² | % | Idriss iterazio | | m | | | | % | | daN/cm ² | | daN/cm ² | m/sec |
| 6.4 | 10.9 | 0.16 | 2.6 | 2.98 | argilla-argilla limosa | 0.00 | ===== | | Molle-plastica (Soffice) | . | . | 0.45 | 61.36 | 32.7 | 112 |
| 16.8 | 28.6 | 0.65 | 3.8 | 2.68 | limo argilloso-argilla limosa | 0.20 | ===== | | Plastica | . | . | 0.96 | 54.86 | 97.8 | 154 |
| 8.5 | 14.4 | 0.54 | 6.3 | 3.08 | argilla-argilla limosa | 0.50 | ===== | | Molle-plastica (Soffice) | . | . | 0.57 | 21.06 | 47.3 | 138 |
| 3.5 | 5.9 | 0.25 | 7.8 | 3.43 | argilla-argilla limosa | 0.90 | ===== | H2O | Fluido-plastica (Molto Soffice) | . | . | 0.26 | 4.94 | 26.1 | 110 |
| 1.8 | 3.0 | 0.12 | 7.9 | 3.67 | terreni organici-torbe | 1.20 | ----- | | Fluida | . | . | 0.14 | 2.16 | 13.3 | 87 |
| 1.9 | 3.2 | 0.09 | 5.6 | 3.56 | argilla-argilla limosa | 1.40 | ----- | | Fluida | . | . | 0.15 | 1.89 | 12.7 | 84 |
| 2.6 | 4.4 | 0.08 | 3.7 | 3.35 | argilla-argilla limosa | 1.70 | ===== | | Fluido-plastica (Molto Soffice) | . | . | 0.20 | 2.07 | 16.1 | 87 |
| 2.3 | 4.0 | 0.06 | 3.2 | 3.35 | argilla-argilla limosa | 2.10 | ===== | | Fluido-plastica (Molto Soffice) | . | . | 0.18 | 1.97 | 14.1 | 80 |
| 3.7 | 6.3 | 0.07 | 2.4 | 3.12 | argilla-argilla limosa | 3.00 | ===== | | Fluido-plastica (Molto Soffice) | . | . | 0.28 | 1.60 | 17.6 | 86 |
| 8.3 | 14.1 | 0.16 | 2.3 | 2.81 | limo argilloso-argilla limosa | 5.40 | ===== | | Molle-plastica (Soffice) | . | . | 0.56 | 3.32 | 37.7 | 111 |
| 5.4 | 9.1 | 0.16 | 3.6 | 3.08 | argilla-argilla limosa | 5.80 | ===== | | Molle-plastica (Soffice) | . | . | 0.39 | 2.55 | 33.0 | 101 |
| 4.6 | 7.8 | 0.12 | 3.4 | 3.11 | argilla-argilla limosa | 6.70 | ===== | | Fluido-plastica (Molto Soffice) | . | . | 0.34 | 1.63 | 28.2 | 93 |
| 5.6 | 8.3 | 0.14 | 3.3 | 3.08 | argilla-argilla limosa | 8.00 | ===== | | Molle-plastica (Soffice) | . | . | 0.41 | 1.86 | 34.1 | 100 |
| | | | | | | 10.00 | ===== | | | | | | | | |

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| qt | Qc1N Idriss & Boulanger 2004 | ft | FT/Qnet | lc | Litologia Idriss iterazione basato su Fr vs Qc1N | H m | Litologia grafica | Falda Idrica | Addensamento (Sabbia) Consistenza (Argilla) | Densità Relativa Tatsuoka 1990 % | Angolo Attrito φ' Kulhawy & Mayne 1990 | Coesione non drenato Cu Benassi daN/cm ² | OCR Marchi / SGT | Modulo Edometrico M Benassi daN/cm ² | Velocità Vs Robertson & Cabal 2009 m/sec |
|------|---------------------------------------|------|---------|------|---|--------|-------------------|-----------------|--|--|---|---|------------------------|---|--|
| 18.0 | 23.1 | 0.25 | 1.6 | 2.55 | sabbia limosa-limo sabbioso | 10.10 | | | Sciolti | 18.6 | 32.3 | . | . | 66.9 | 141 |
| 10.5 | 13.7 | 0.15 | 1.8 | 2.78 | limo argilloso-argilla limosa | 10.40 | | | Plastica | . | . | 0.68 | 2.03 | 41.8 | 117 |
| 30.0 | 35.9 | 0.36 | 1.3 | 2.33 | sabbia limosa-limo sabbioso | 11.00 | | | Sciolti | 33.2 | 34.6 | . | . | 104.5 | 160 |
| 33.0 | 38.3 | 0.35 | 1.2 | 2.29 | sabbia limosa-limo sabbioso | 11.30 | | | Mediamente Addensata | 35.3 | 34.9 | . | . | 111.7 | 164 |
| 41.0 | 46.6 | 0.19 | 0.5 | 2.02 | sabbia-sabbia limosa | 11.40 | | | Mediamente Addensata | 41.8 | 35.9 | . | . | 125.3 | 156 |
| 33.4 | 38.1 | 0.46 | 1.6 | 2.35 | sabbia limosa-limo sabbioso | 11.50 | | | Mediamente Addensata | 35.2 | 34.9 | . | . | 124.8 | 172 |
| 19.3 | 22.3 | 0.43 | 2.5 | 2.67 | limo argilloso-argilla limosa | 11.80 | | | Plastica | . | . | 1.05 | 4.13 | 95.7 | 157 |
| 30.3 | 33.4 | 0.49 | 1.8 | 2.44 | sabbia limosa-limo sabbioso | 12.60 | | | Sciolti | 30.8 | 34.3 | . | . | 117.9 | 172 |
| 39.4 | 41.3 | 0.48 | 1.5 | 2.30 | sabbia limosa-limo sabbioso | 13.40 | | | Mediamente Addensata | 37.8 | 35.4 | . | . | 140.9 | 178 |
| 25.2 | 26.0 | 0.58 | 2.6 | 2.63 | limo argilloso-argilla limosa | 13.50 | | | Solido-plastica (Duro) | . | . | 1.24 | 4.65 | 129.1 | 176 |
| 29.6 | 30.1 | 0.59 | 2.2 | 2.54 | sabbia limosa-limo sabbioso | 13.70 | | | Sciolti | 27.4 | 33.9 | . | . | 132.9 | 180 |
| 22.4 | 22.7 | 0.52 | 2.6 | 2.67 | limo argilloso-argilla limosa | 13.80 | | | Solido-plastica (Duro) | . | . | 1.15 | 4.02 | 114.9 | 169 |
| 27.8 | 27.9 | 0.49 | 1.9 | 2.53 | sabbia limosa-limo sabbioso | 14.00 | | | Sciolti | 24.8 | 33.5 | . | . | 113.3 | 173 |
| 18.6 | 18.4 | 0.50 | 3.2 | 2.80 | limo argilloso-argilla limosa | 14.30 | | | Plastica | . | . | 1.02 | 3.57 | 108.7 | 164 |
| 21.2 | 20.7 | 0.57 | 3.1 | 2.75 | limo argilloso-argilla limosa | 14.50 | | | Solido-plastica (Duro) | . | . | 1.11 | 3.67 | 126.3 | 171 |
| 17.0 | 16.3 | 0.44 | 3.2 | 2.84 | limo argilloso-argilla limosa | 15.00 | | | Plastica | . | . | 0.96 | 3.25 | 99.5 | 159 |
| 31.0 | 29.5 | 0.27 | 1.2 | 2.38 | sabbia limosa-limo sabbioso | 15.20 | | | Sciolti | 26.7 | 33.8 | . | . | 103.6 | 163 |
| 10.0 | 9.1 | 0.24 | 3.2 | 3.05 | argilla-argilla limosa | 16.30 | | | Plastica | . | . | 0.65 | 1.48 | 58.6 | 130 |
| 12.5 | 10.9 | 0.36 | 3.7 | 3.02 | argilla-argilla limosa | 16.90 | | | Plastica | . | . | 0.77 | 2.04 | 72.7 | 146 |
| 41.1 | 36.5 | 0.40 | 1.1 | 2.28 | sabbia limosa-limo sabbioso | 17.10 | | | Sciolti | 33.8 | 34.9 | . | . | 136.2 | 182 |
| 14.0 | 11.9 | 0.35 | 3.2 | 2.97 | argilla-argilla limosa | 17.30 | | | Plastica | . | . | 0.84 | 2.40 | 81.7 | 148 |
| 17.1 | 14.4 | 0.30 | 2.2 | 2.80 | limo argilloso-argilla limosa | 17.60 | | | Plastica | . | . | 0.97 | 2.32 | 76.3 | 152 |
| 10.8 | 8.8 | 0.21 | 2.7 | 3.02 | argilla-argilla limosa | 18.10 | | | Plastica | . | . | 0.69 | 1.43 | 57.1 | 130 |
| 14.6 | 11.8 | 0.43 | 3.8 | 3.00 | argilla-argilla limosa | 18.30 | | | Plastica | . | . | 0.87 | 1.89 | 84.7 | 157 |
| 11.2 | 8.7 | 0.32 | 4.0 | 3.11 | argilla-argilla limosa | 19.30 | | | Plastica | . | . | 0.71 | 1.35 | 65.0 | 141 |
| 18.3 | 14.1 | 0.42 | 2.9 | 2.86 | limo argilloso-argilla limosa | | | | Plastica | . | . | 1.01 | 2.16 | 101.2 | 164 |

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Ariano Ferrarese
Dott.ssa Geol. Sara Bedeschi
12-ott-23

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1.10 m

Sigla della Punta
Azzeramento
Ultimo taratura guadagno
Ultimo taratura per deriva termica

Tecnopenta 100707
Inizio prova
12-apr-2023
12-apr-2023



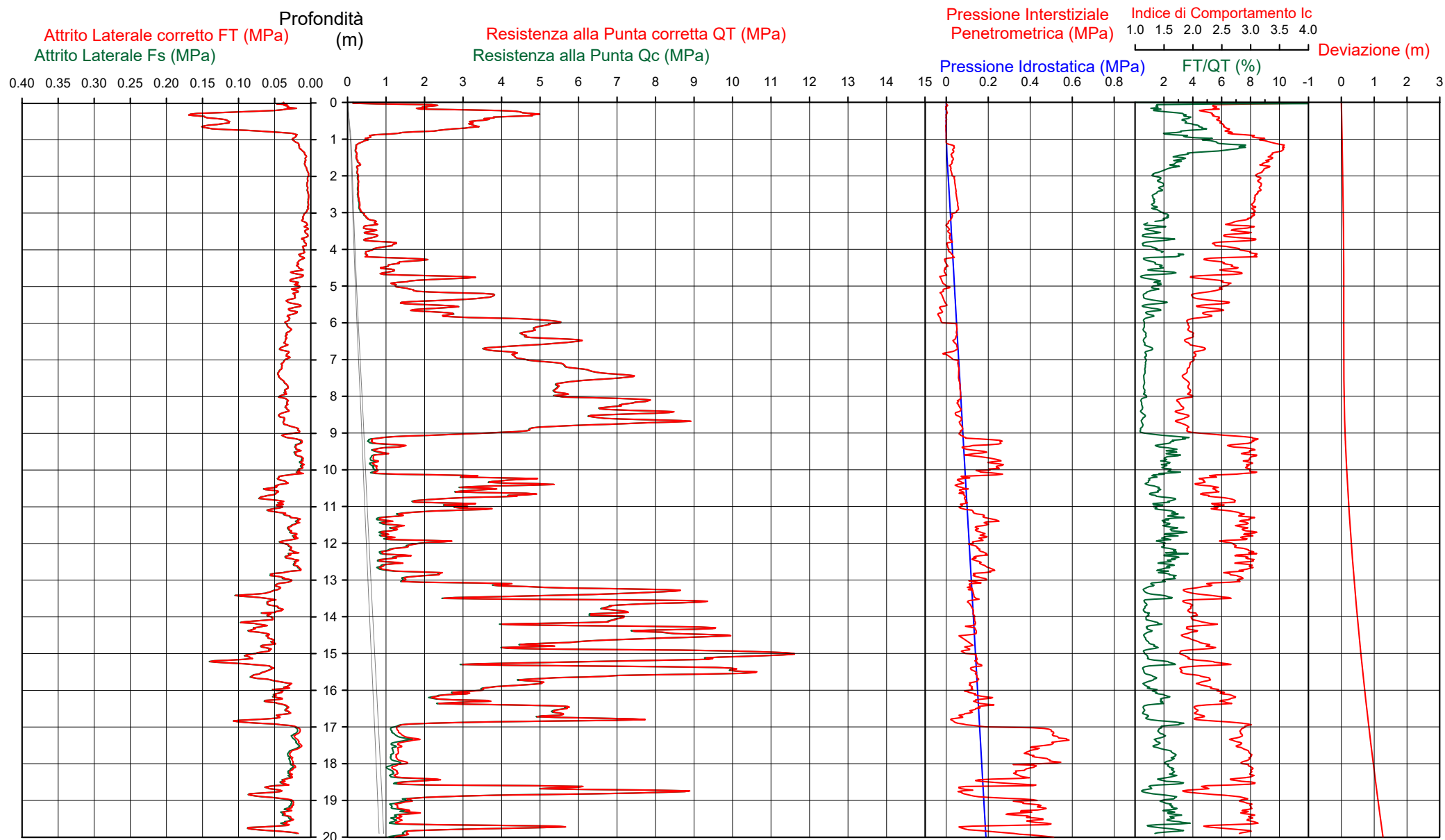
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| qt | Qc1N Idriss & Boulanger 2004 | ft | FT/Qnet | lc | Litologia Idriss iterazione basato su Fr vs Qc1N | H m | Litologia grafica | Falda idrica | Addensamento (Sabbia) Consistenza (Argilla) | Densità Relativa Tatsuoka 1990 % | Angolo Attrito φ' Kulhawy & Mayne 1990 | Coesione non drenato Cu Benassi | OCR Marchi / SGT | Modulo Edometrico M Benassi | Velocità Vs Robertson & Cabal 2009 m/sec |
|---------------------|---------------------------------------|------|---------|-------------------|---|--------|-------------------|------------------|--|--|---|--|------------------------|--------------------------------------|--|
| daN/cm ² | daN/cm ² | % | | Idriss iterazione | | | | | | | | daN/cm ² | | daN/cm ² | |
| 15.3 | 26.0 | 0.37 | 7.5 | 2.84 | limo argilloso-argilla limosa | 0.00 | | | Plastica | - | - | 0.89 | 334.69 | 83.4 | 163 |
| 33.5 | 56.9 | 1.11 | 3.3 | 2.44 | sabbia limosa-limo sabbioso | 0.10 | | | Mediamente Addensata | 48.4 | 40.2 | - | - | 195.3 | 183 |
| | | | | | | 0.80 | | | | | | | | | |
| 7.9 | 13.4 | 0.24 | 3.6 | 2.95 | argilla-argilla limosa | 1.00 | | | Molle-plastica (Soffice) | - | - | 0.54 | 13.84 | 45.7 | 121 |
| 2.7 | 4.6 | 0.10 | 4.0 | 3.33 | argilla-argilla limosa | | | H ₂ O | Fluido-plastica (Molto Soffice) | - | - | 0.21 | 4.08 | 17.0 | 88 |
| | | | | | | 2.00 | | | | | | | | | |
| 3.3 | 5.6 | 0.05 | 1.7 | 3.09 | argilla-argilla limosa | | | | Fluido-plastica (Molto Soffice) | - | - | 0.25 | 2.05 | 12.5 | 81 |
| | | | | | | 3.20 | | | | | | | | | |
| 6.2 | 10.6 | 0.07 | 1.4 | 2.79 | limo argilloso-argilla limosa | | | | Molle-plastica (Soffice) | - | - | 0.44 | 4.43 | 21.9 | 96 |
| | | | | | | 3.80 | | | | | | | | | |
| 12.1 | 20.6 | 0.07 | 0.6 | 2.37 | sabbia limosa-limo sabbioso | 3.90 | | | Molto Sciolta | 14.8 | 32.1 | - | - | 37.2 | 105 |
| 6.7 | 11.3 | 0.10 | 1.7 | 2.63 | limo argilloso-argilla limosa | | | | Molle-plastica (Soffice) | - | - | 0.47 | 4.46 | 25.6 | 100 |
| | | | | | | 4.10 | | | | | | | | | |
| 4.9 | 8.3 | 0.15 | 3.4 | 3.09 | argilla-argilla limosa | 4.20 | | | Fluido-plastica (Molto Soffice) | - | - | 0.36 | 2.64 | 29.9 | 101 |
| 15.2 | 25.9 | 0.15 | 1.1 | 2.41 | sabbia limosa-limo sabbioso | 4.40 | | | Sciolta | 22.4 | 33.0 | - | - | 50.1 | 121 |
| | | | | | | 4.70 | | | | | | | | | |
| 10.5 | 17.8 | 0.18 | 1.9 | 2.67 | limo argilloso-argilla limosa | | | | Plastica | - | - | 0.68 | 4.97 | 42.4 | 117 |
| | | | | | | 4.80 | | | | | | | | | |
| 28.7 | 46.7 | 0.16 | 0.6 | 2.05 | sabbia limosa-limo sabbioso | 5.10 | | | Mediamente Addensata | 41.9 | 35.9 | - | - | 88.3 | 134 |
| 14.7 | 24.9 | 0.22 | 1.6 | 2.51 | sabbia limosa-limo sabbioso | | | | Sciolta | 21.1 | 32.6 | - | - | 53.9 | 126 |
| | | | | | | 5.30 | | | | | | | | | |
| 23.8 | 38.5 | 0.20 | 0.9 | 2.23 | sabbia limosa-limo sabbioso | 5.90 | | | Mediamente Addensata | 35.5 | 34.8 | - | - | 76.5 | 136 |
| 37.7 | 56.7 | 0.22 | 0.6 | 1.99 | sabbia-sabbia limosa | | | | Mediamente Addensata | 48.3 | 37.0 | - | - | 116.1 | 148 |
| 25.2 | 39.0 | 0.26 | 1.2 | 2.27 | sabbia limosa-limo sabbioso | | | | Mediamente Addensata | 35.9 | 34.9 | - | - | 84.9 | 141 |
| | | | | | | 5.90 | | | | | | | | | |
| 51.2 | 69.0 | 0.33 | 0.7 | 1.93 | sabbia-sabbia limosa | | | | Mediamente Addensata | 54.8 | 38.0 | - | - | 158.5 | 166 |
| | | | | | | 6.60 | | | | | | | | | |
| 39.2 | 53.2 | 0.37 | 1.0 | 2.13 | sabbia limosa-limo sabbioso | 6.80 | | | Mediamente Addensata | 46.1 | 36.6 | - | - | 127.3 | 164 |
| 59.5 | 71.8 | 0.35 | 0.7 | 1.92 | sabbia-sabbia limosa | | | | Mediamente Addensata | 56.1 | 38.2 | - | - | 184.7 | 174 |
| | | | | | | 9.10 | | | | | | | | | |
| 7.3 | 9.3 | 0.17 | 2.9 | 3.02 | argilla-argilla limosa | 9.30 | | | Molle-plastica (Soffice) | - | - | 0.51 | 1.82 | 42.0 | 112 |
| 13.2 | 16.3 | 0.20 | 1.8 | 2.70 | limo argilloso-argilla limosa | 9.40 | | | Plastica | - | - | 0.81 | 3.21 | 52.1 | 131 |
| 7.5 | 9.2 | 0.15 | 2.5 | 2.98 | argilla-argilla limosa | | | | Molle-plastica (Soffice) | - | - | 0.52 | 1.74 | 36.7 | 110 |
| | | | | | | | | | | | | | | | |

CPTU

4

Data
Cantiere / Via
Località
Comune
Profondità falda idrica m.

12 ottobre 2023
SP 68
Ariano Ferrarese
Mesola
1.10



Società di
Geologia
Territoriale

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di Van Zutphen Albert & C.

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| Vs20 |
|------|
| 140 |

| qt | Qc1N Idriss & Boulanger 2004 | ft | FT/Qnet | lc | Litologia Idriss iterazione basato su Fr vs Qc1N | H m | Litologia grafica | Falda idrica | Addensamento (Sabbia) Consistenza (Argilla) | Densità Relativa Tatsuoka 1990 % | Angolo Attrito φ' Kulhawy & Mayne 1990 | Coesione non drenato Cu Benassi daN/cm ² | OCR Marchi / SGT | Modulo Edometrico M Benassi daN/cm ² | Velocità Vs Robertson & Cabal 2009 m/sec |
|-------|---------------------------------------|------|---------|------|---|--------|-------------------|-----------------|--|--|---|---|------------------------|---|--|
| 37.0 | 41.0 | 0.48 | 1.4 | 2.31 | sabbia limosa-limo sabbioso | 10.10 | ===== | | Mediamente Addensata | 37.6 | 35.3 | . | . | 131.9 | 176 |
| 19.3 | 21.4 | 0.43 | 2.5 | 2.69 | limo argilloso-argilla limosa | 10.80 | ===== | | Plastica | . | . | 1.05 | 4.07 | 95.2 | 159 |
| 30.6 | 33.2 | 0.46 | 1.6 | 2.42 | sabbia limosa-limo sabbioso | 10.90 | ===== | | Scioltà | 30.6 | 34.3 | . | . | 114.3 | 171 |
| 12.5 | 13.5 | 0.28 | 2.7 | 2.87 | limo argilloso-argilla limosa | 11.10 | ===== | | Plastica | . | . | 0.77 | 3.52 | 64.6 | 136 |
| 10.6 | 11.2 | 0.24 | 2.8 | 2.94 | limo argilloso-argilla limosa | 11.60 | ===== | | Plastica | . | . | 0.68 | 2.15 | 57.9 | 130 |
| 22.8 | 23.7 | 0.39 | 1.9 | 2.57 | sabbia limosa-limo sabbioso | 11.90 | ===== | | Scioltà | 19.5 | 32.7 | . | . | 91.5 | 161 |
| 13.4 | 13.6 | 0.28 | 2.6 | 2.86 | limo argilloso-argilla limosa | 12.00 | ===== | | Plastica | . | . | 0.81 | 3.00 | 67.7 | 138 |
| 34.2 | 33.7 | 0.40 | 1.4 | 2.40 | sabbia limosa-limo sabbioso | 13.00 | ===== | | Scioltà | 31.1 | 34.4 | . | . | 121.6 | 175 |
| 74.6 | 73.3 | 0.57 | 0.8 | 1.96 | sabbia-sabbia limosa | 13.20 | ===== | | Mediamente Addensata | 56.7 | 38.1 | . | . | 235.4 | 203 |
| 37.5 | 36.4 | 0.82 | 2.4 | 2.51 | sabbia limosa-limo sabbioso | 13.40 | ===== | | Scioltà | 33.6 | 34.8 | . | . | 178.5 | 201 |
| 71.4 | 68.9 | 0.53 | 0.8 | 1.97 | sabbia-sabbia limosa | 13.50 | ===== | | Mediamente Addensata | 54.7 | 37.8 | . | . | 224.6 | 200 |
| 57.7 | 54.7 | 0.84 | 1.6 | 2.24 | sabbia limosa-limo sabbioso | 14.10 | ===== | | Mediamente Addensata | 47.1 | 36.7 | . | . | 211.7 | 212 |
| 83.3 | 79.0 | 0.68 | 0.9 | 1.95 | sabbia-sabbia limosa | 14.20 | ===== | | Mediamente Addensata | 59.2 | 38.4 | . | . | 265.2 | 214 |
| 54.8 | 50.6 | 0.57 | 1.1 | 2.18 | sabbia limosa-limo sabbioso | 14.60 | ===== | | Mediamente Addensata | 44.5 | 36.3 | . | . | 182.6 | 198 |
| 101.0 | 94.7 | 0.84 | 0.9 | 1.89 | sabbia-sabbia limosa | 14.90 | ===== | | Addensata | 65.2 | 39.2 | . | . | 322.5 | 226 |
| 45.4 | 40.8 | 1.11 | 2.7 | 2.49 | sabbia limosa-limo sabbioso | 15.20 | ===== | | Mediamente Addensata | 37.4 | 35.4 | . | . | 234.4 | 220 |
| 89.3 | 82.3 | 0.63 | 0.8 | 1.91 | sabbia-sabbia limosa | 15.30 | ===== | | Mediamente Addensata | 60.6 | 38.6 | . | . | 281.1 | 215 |
| 50.0 | 44.2 | 0.50 | 1.0 | 2.20 | sabbia limosa-limo sabbioso | 15.60 | ===== | | Mediamente Addensata | 40.0 | 35.7 | . | . | 163.4 | 190 |
| 33.1 | 28.4 | 0.41 | 1.4 | 2.43 | sabbia limosa-limo sabbioso | 15.90 | ===== | | Scioltà | 25.4 | 33.7 | . | . | 115.9 | 177 |
| 23.7 | 19.9 | 0.49 | 2.4 | 2.69 | limo argilloso-argilla limosa | 16.10 | ===== | | Solido-plastica (Duro) | . | . | 1.19 | 3.31 | 111.0 | 174 |
| 30.3 | 25.6 | 0.48 | 1.8 | 2.54 | sabbia limosa-limo sabbioso | 16.20 | ===== | | Scioltà | 22.0 | 33.3 | . | . | 119.0 | 181 |
| 54.3 | 46.7 | 0.50 | 1.1 | 2.17 | sabbia limosa-limo sabbioso | 16.40 | ===== | | Mediamente Addensata | 41.9 | 36.0 | . | . | 180.2 | 195 |
| 13.6 | 10.4 | 0.23 | 2.2 | 2.90 | limo argilloso-argilla limosa | 16.90 | ===== | | Plastica | . | . | 0.82 | 1.80 | 60.6 | 141 |
| 21.2 | 16.2 | 0.38 | 2.5 | 2.80 | limo argilloso-argilla limosa | 18.40 | ===== | | Solido-plastica (Duro) | . | . | 1.11 | 2.46 | 104.1 | 172 |
| 60.3 | 49.5 | 0.62 | 1.3 | 2.21 | sabbia limosa-limo sabbioso | 18.60 | ===== | | Mediamente Addensata | 43.8 | 36.2 | . | . | 209.6 | 208 |
| 14.6 | 10.5 | 0.30 | 2.7 | 2.95 | argilla-argilla limosa | 18.90 | ===== | | Plastica | . | . | 0.87 | 2.02 | 76.3 | 150 |
| 35.0 | 26.6 | 0.57 | 2.2 | 2.60 | sabbia limosa-limo sabbioso | 19.60 | ===== | | Scioltà | 23.3 | 33.5 | . | . | 157.3 | 199 |
| 15.9 | 11.2 | 0.34 | 2.6 | 2.91 | limo argilloso-argilla limosa | 19.80 | ===== | | Plastica | . | . | 0.92 | 1.81 | 81.8 | 154 |

Allegato 2
Indagine sismica

PROGETTO DI PARCO FOTOVOLTAICO - S.P. 68 DI CODIGORO - OPR SUN31 SRL - TR1

Instrument: TEB-0704/01-22

Data format: 32 bit

Full scale [mV]: 89

Start recording: 12/10/2023 13:04:00 End recording: 12/10/2023 13:24:00

Channel labels: NORTH SOUTH; EAST WEST ; UP DOWN

GPS data not available

Trace length: 0h20'00". Analyzed 52% trace (manual window selection)

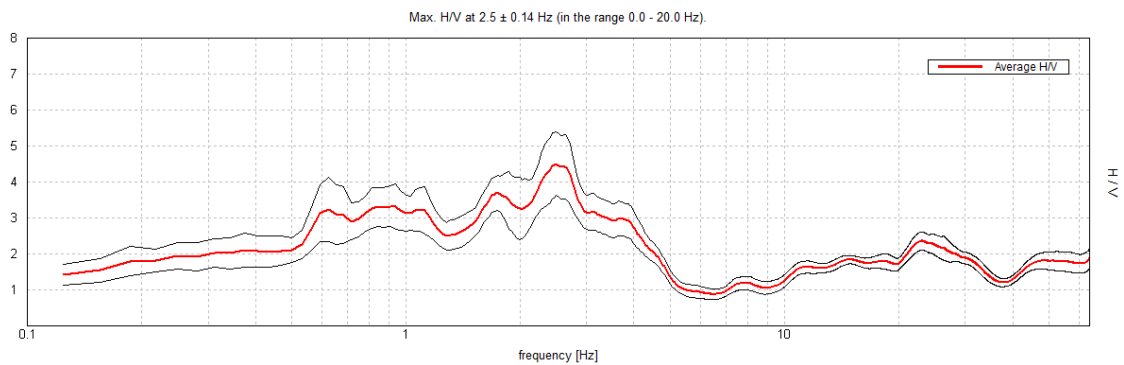
Sampling rate: 128 Hz

Window size: 20 s

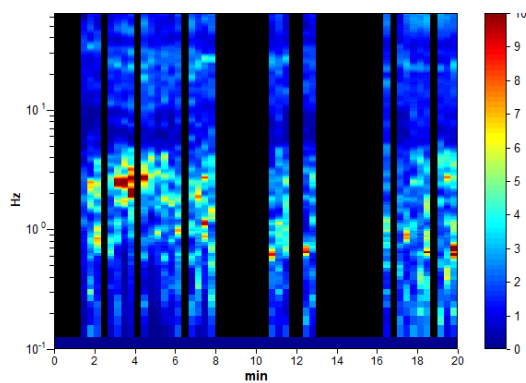
Smoothing type: Triangular window

Smoothing: 10%

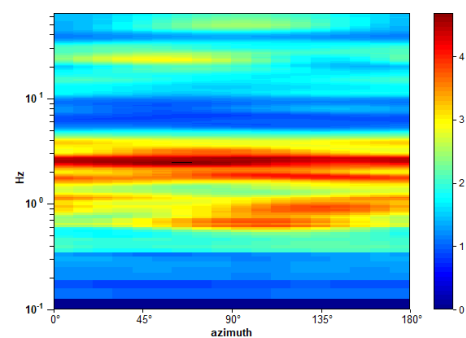
HORIZONTAL TO VERTICAL SPECTRAL RATIO



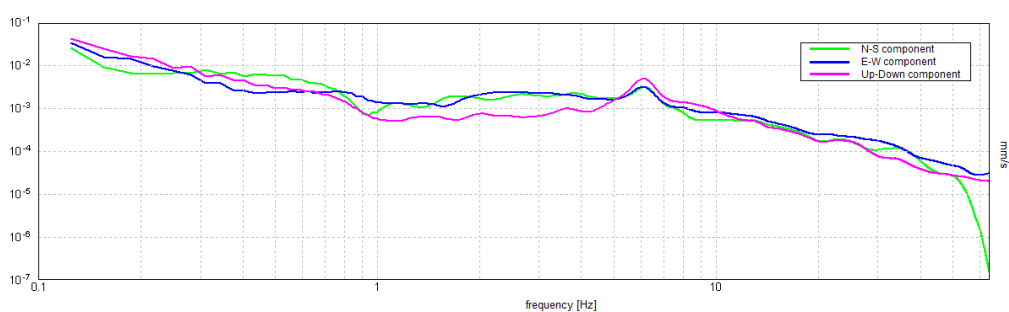
H/V TIME HISTORY



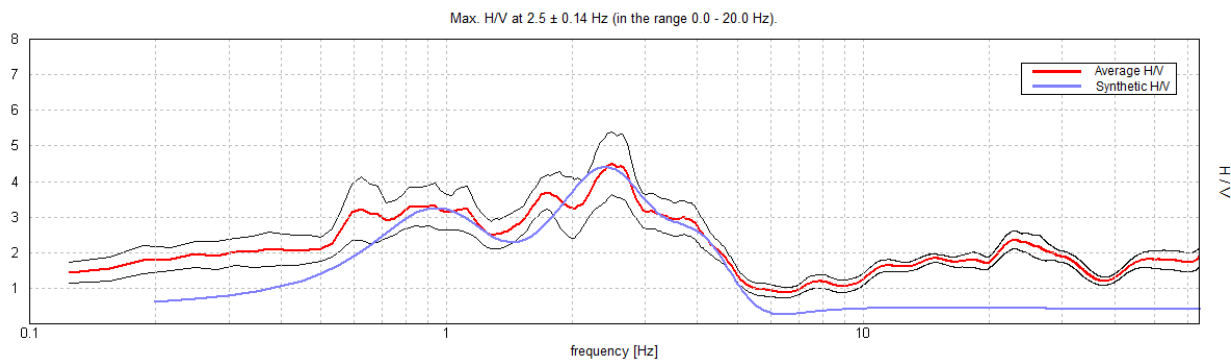
DIRECTIONAL H/V



SINGLE COMPONENT SPECTRA

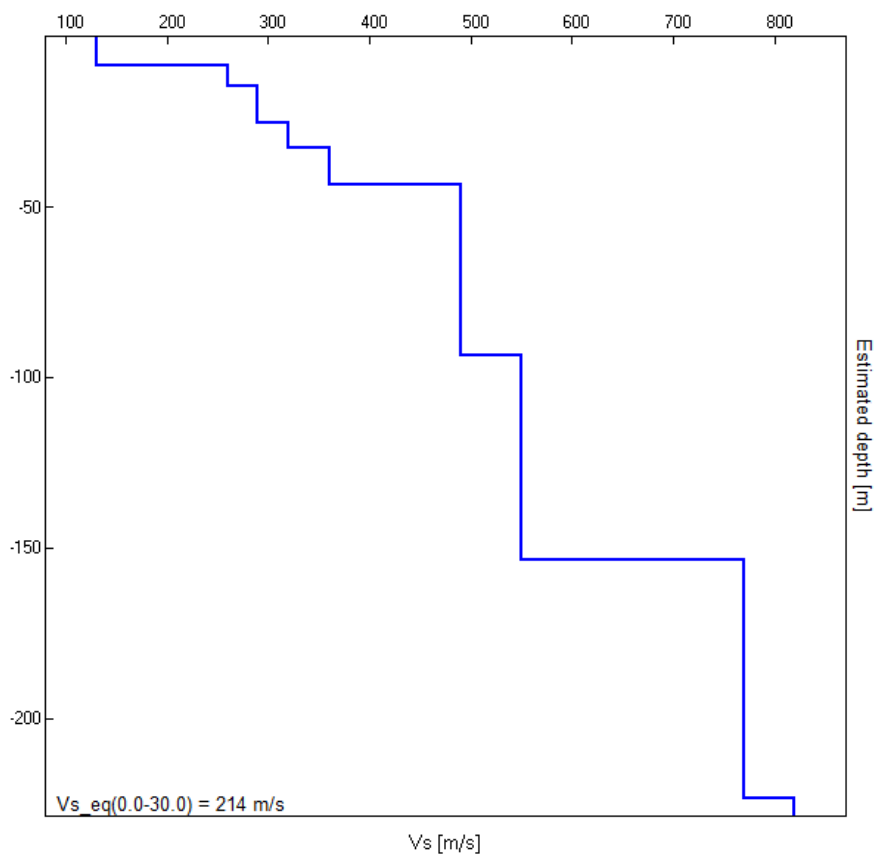


EXPERIMENTAL vs. SYNTHETIC H/V



| Depth at the bottom of the layer [m] | Thickness [m] | Vs [m/s] | Poisson ratio |
|--------------------------------------|---------------|----------|---------------|
| 8.50 | 8.50 | 130 | 0.42 |
| 14.50 | 6.00 | 260 | 0.35 |
| 25.50 | 11.00 | 290 | 0.42 |
| 32.50 | 7.00 | 320 | 0.42 |
| 43.50 | 11.00 | 360 | 0.42 |
| 93.50 | 50.00 | 490 | 0.42 |
| 153.50 | 60.00 | 550 | 0.42 |
| 223.50 | 70.00 | 770 | 0.42 |
| inf. | inf. | 820 | 0.42 |

$Vs_{eq}(0.0-30.0) = 214$ m/s



[According to the SESAME, 2005 guidelines. **Please read carefully the *Grilla* manual before interpreting the following tables.**]

Max. H/V at 2.5 ± 0.14 Hz (in the range 0.0 - 20.0 Hz).

Criteria for a reliable H/V curve

[All 3 should be fulfilled]

| | | | |
|--|-----------------------------|----|--|
| $f_0 > 10 / L_w$ | $2.50 > 0.50$ | OK | |
| $n_c(f_0) > 200$ | $1550.0 > 200$ | OK | |
| $\sigma_A(f) < 2$ for $0.5f_0 < f < 2f_0$ if $f_0 > 0.5\text{Hz}$ $\sigma_A(f) < 3$ for $0.5f_0 < f < 2f_0$ if $f_0 < 0.5\text{Hz}$ | Exceeded 0 out of 121 times | OK | |

Criteria for a clear H/V peak

[At least 5 out of 6 should be fulfilled]

| | | | |
|---|--------------------|----|----|
| Exists f^- in $[f_0/4, f_0]$ $A_{H/V}(f^-) < A_0 / 2$ | | | NO |
| Exists f^+ in $[f_0, 4f_0]$ $A_{H/V}(f^+) < A_0 / 2$ | 4.313 Hz | OK | |
| $A_0 > 2$ | $4.51 > 2$ | OK | |
| $f_{\text{peak}}[A_{H/V}(f) \pm \sigma_A(f)] = f_0 \pm 5\%$ | $ 0.05486 < 0.05$ | | NO |
| $\sigma_f < \varepsilon(f_0)$ | $0.13714 < 0.125$ | | NO |
| $\sigma_A(f_0) < \theta(f_0)$ | $0.8864 < 1.58$ | OK | |

| | |
|------------------------|---|
| L_w | window length |
| n_w | number of windows used in the analysis |
| $n_c = L_w n_w f_0$ | number of significant cycles |
| f | current frequency |
| f_0 | H/V peak frequency |
| σ_f | standard deviation of H/V peak frequency |
| $\varepsilon(f_0)$ | threshold value for the stability condition $\sigma_f < \varepsilon(f_0)$ |
| A_0 | H/V peak amplitude at frequency f_0 |
| $A_{H/V}(f)$ | H/V curve amplitude at frequency f |
| f^- | frequency between $f_0/4$ and f_0 for which $A_{H/V}(f^-) < A_0/2$ |
| f^+ | frequency between f_0 and $4f_0$ for which $A_{H/V}(f^+) < A_0/2$ |
| $\sigma_A(f)$ | standard deviation of $A_{H/V}(f)$, $\sigma_A(f)$ is the factor by which the mean $A_{H/V}(f)$ curve should be multiplied or divided |
| $\sigma_{\log H/V}(f)$ | standard deviation of $\log A_{H/V}(f)$ curve |
| $\theta(f_0)$ | threshold value for the stability condition $\sigma_A(f) < \theta(f_0)$ |

Threshold values for σ_f and $\sigma_A(f_0)$

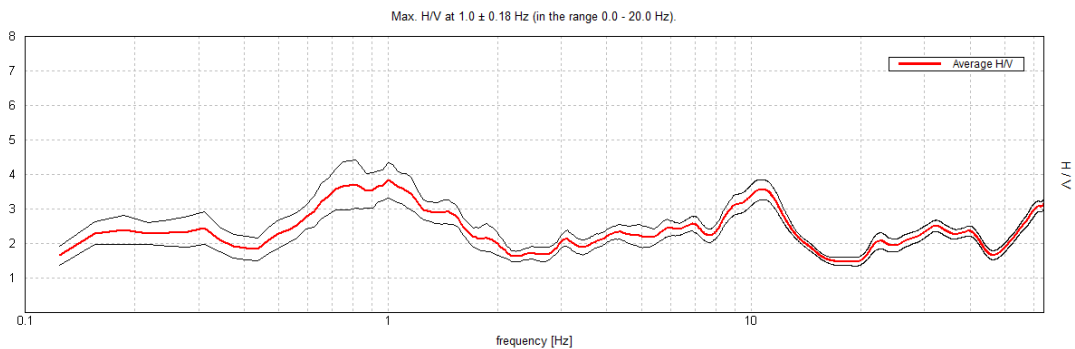
| Freq. range [Hz] | < 0.2 | 0.2 – 0.5 | 0.5 – 1.0 | 1.0 – 2.0 | > 2.0 |
|---|------------|-----------|------------|------------|------------|
| $\varepsilon(f_0)$ [Hz] | $0.25 f_0$ | $0.2 f_0$ | $0.15 f_0$ | $0.10 f_0$ | $0.05 f_0$ |
| $\theta(f_0)$ for $\sigma_A(f_0)$ | 3.0 | 2.5 | 2.0 | 1.78 | 1.58 |
| $\log \theta(f_0)$ for $\sigma_{\log H/V}(f_0)$ | 0.48 | 0.40 | 0.30 | 0.25 | 0.20 |

PROGETTO DI PARCO FOTOVOLTAICO - S.P. 68 DI CODIGORO - OPR SUN31 SRL - TR2

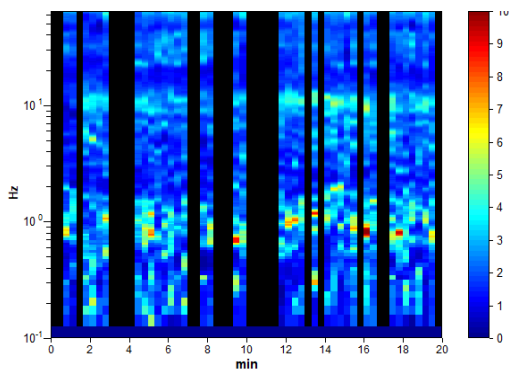
Instrument: TEB-0704/01-22
Data format: 32 bit
Full scale [mV]: 89
Start recording: 12/10/2023 11:29:54 End recording: 12/10/2023 11:49:54
Channel labels: NORTH SOUTH; EAST WEST ; UP DOWN
GPS data not available

Trace length: 0h20'00". Analyzed 62% trace (manual window selection)
Sampling rate: 128 Hz
Window size: 20 s
Smoothing type: Triangular window
Smoothing: 10%

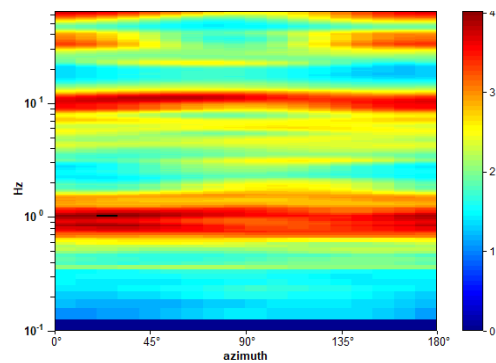
HORIZONTAL TO VERTICAL SPECTRAL RATIO



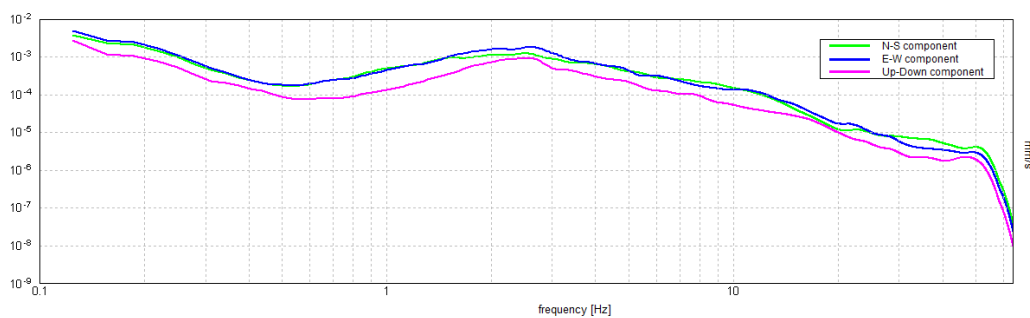
H/V TIME HISTORY



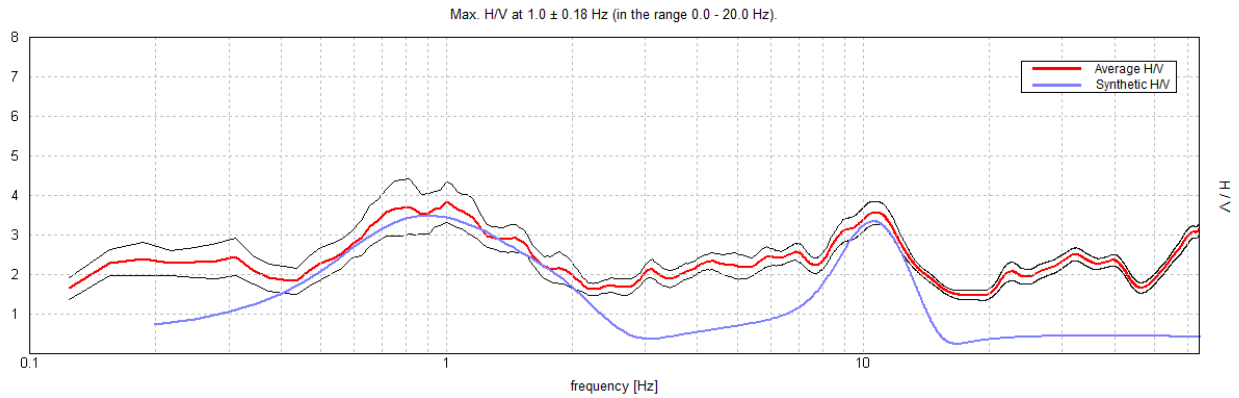
DIRECTIONAL H/V



SINGLE COMPONENT SPECTRA

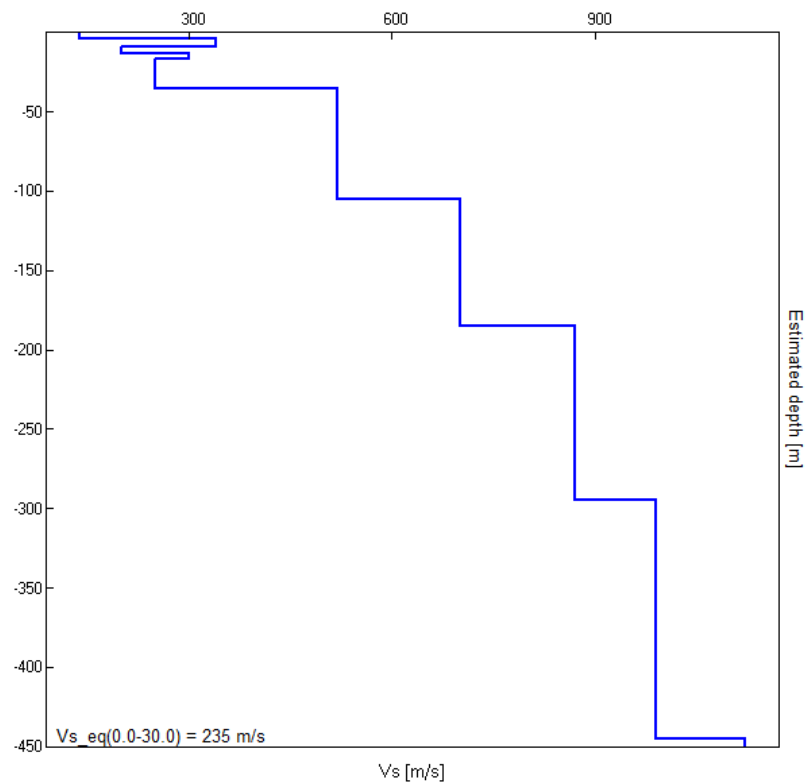


EXPERIMENTAL vs. SYNTHETIC H/V



| Depth at the bottom of the layer [m] | Thickness [m] | Vs [m/s] | Poisson ratio |
|--------------------------------------|---------------|----------|---------------|
| 3.80 | 3.80 | 140 | 0.42 |
| 9.00 | 5.20 | 340 | 0.35 |
| 13.00 | 4.00 | 200 | 0.42 |
| 17.00 | 4.00 | 300 | 0.35 |
| 35.00 | 18.00 | 250 | 0.42 |
| 105.00 | 70.00 | 520 | 0.42 |
| 185.00 | 80.00 | 700 | 0.42 |
| 295.00 | 110.00 | 870 | 0.42 |
| 445.00 | 150.00 | 990 | 0.42 |
| inf. | inf. | 1120 | 0.42 |

$$V_{s_eq}(0.0-30.0) = 235 \text{ m/s}$$



[According to the SESAME, 2005 guidelines. **Please read carefully the *Grilla* manual before interpreting the following tables.**]

Max. H/V at 1.0 ± 0.18 Hz (in the range 0.0 - 20.0 Hz).

Criteria for a reliable H/V curve

[All 3 should be fulfilled]

| | | | |
|--|----------------------------|----|--|
| $f_0 > 10 / L_w$ | $1.00 > 0.50$ | OK | |
| $n_c(f_0) > 200$ | $740.0 > 200$ | OK | |
| $\sigma_A(f) < 2$ for $0.5f_0 < f < 2f_0$ if $f_0 > 0.5\text{Hz}$ $\sigma_A(f) < 3$ for $0.5f_0 < f < 2f_0$ if $f_0 < 0.5\text{Hz}$ | Exceeded 0 out of 49 times | OK | |

Criteria for a clear H/V peak

[At least 5 out of 6 should be fulfilled]

| | | | |
|---|--------------------|----|----|
| Exists f^- in $[f_0/4, f_0]$ $A_{H/V}(f^-) < A_0 / 2$ | 0.438 Hz | OK | |
| Exists f^+ in $[f_0, 4f_0]$ $A_{H/V}(f^+) < A_0 / 2$ | 2.063 Hz | OK | |
| $A_0 > 2$ | $3.83 > 2$ | OK | |
| $f_{\text{peak}}[A_{H/V}(f) \pm \sigma_A(f)] = f_0 \pm 5\%$ | $ 0.17774 < 0.05$ | | NO |
| $\sigma_f < \varepsilon(f_0)$ | $0.17774 < 0.1$ | | NO |
| $\sigma_A(f_0) < \theta(f_0)$ | $0.5105 < 1.78$ | OK | |

| | |
|------------------------|---|
| L_w | window length |
| n_w | number of windows used in the analysis |
| $n_c = L_w n_w f_0$ | number of significant cycles |
| f | current frequency |
| f_0 | H/V peak frequency |
| σ_f | standard deviation of H/V peak frequency |
| $\varepsilon(f_0)$ | threshold value for the stability condition $\sigma_f < \varepsilon(f_0)$ |
| A_0 | H/V peak amplitude at frequency f_0 |
| $A_{H/V}(f)$ | H/V curve amplitude at frequency f |
| f^- | frequency between $f_0/4$ and f_0 for which $A_{H/V}(f^-) < A_0/2$ |
| f^+ | frequency between f_0 and $4f_0$ for which $A_{H/V}(f^+) < A_0/2$ |
| $\sigma_A(f)$ | standard deviation of $A_{H/V}(f)$, $\sigma_A(f)$ is the factor by which the mean $A_{H/V}(f)$ curve should be multiplied or divided |
| $\sigma_{\log H/V}(f)$ | standard deviation of $\log A_{H/V}(f)$ curve |
| $\theta(f_0)$ | threshold value for the stability condition $\sigma_A(f) < \theta(f_0)$ |

Threshold values for σ_f and $\sigma_A(f_0)$

| Freq. range [Hz] | < 0.2 | 0.2 – 0.5 | 0.5 – 1.0 | 1.0 – 2.0 | > 2.0 |
|---|------------|-----------|------------|------------|------------|
| $\varepsilon(f_0)$ [Hz] | $0.25 f_0$ | $0.2 f_0$ | $0.15 f_0$ | $0.10 f_0$ | $0.05 f_0$ |
| $\theta(f_0)$ for $\sigma_A(f_0)$ | 3.0 | 2.5 | 2.0 | 1.78 | 1.58 |
| $\log \theta(f_0)$ for $\sigma_{\log H/V}(f_0)$ | 0.48 | 0.40 | 0.30 | 0.25 | 0.20 |

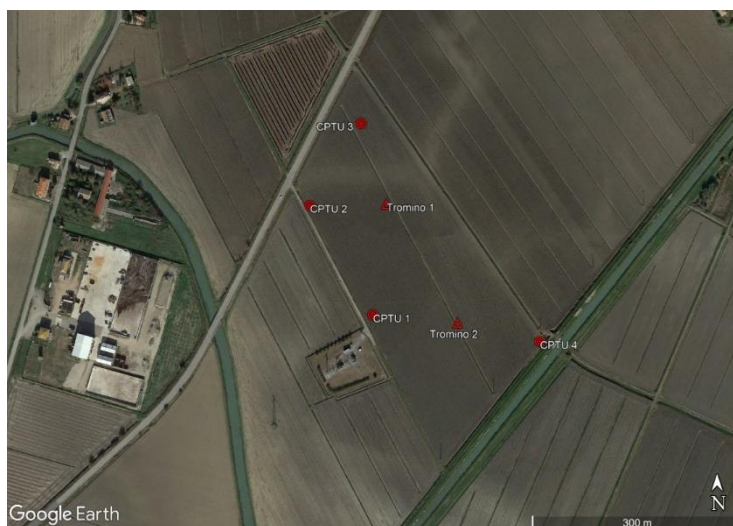
Allegato 3

Studio di Risposta Sismica Locale

COMUNE DI MESOLA

Provincia di Ferrara

Analisi di Risposta Sismica Locale



Committente: Geol. Sara Bedeschi



**Società di
Geologia
Territoriale**

S.G.T. sas.
di Van Zutphen Albert & C.
Via Matteotti 50
48012 Bagnacavallo (RA)
www.geo55.com

Ottobre, 2023



ANALISI DI RISPOSTA SISMICA LOCALE

LA MODELLAZIONE STRATA

La modellazione numerica dei dati, ottenuti dalle diverse prove dirette ed indirette, è stata realizzata tramite l'ausilio del software STRATA (2008), sviluppato da Albert Kottke.

Nel corso dei passati terremoti, si è osservato che il comportamento dei terreni dipende dalle condizioni locali. Le amplificazioni, dovute agli effetti locali, sono simulate usando numerosi programmi che assumono condizioni di suolo semplificate, come strati di terreno orizzontali ed estesi infinitamente.

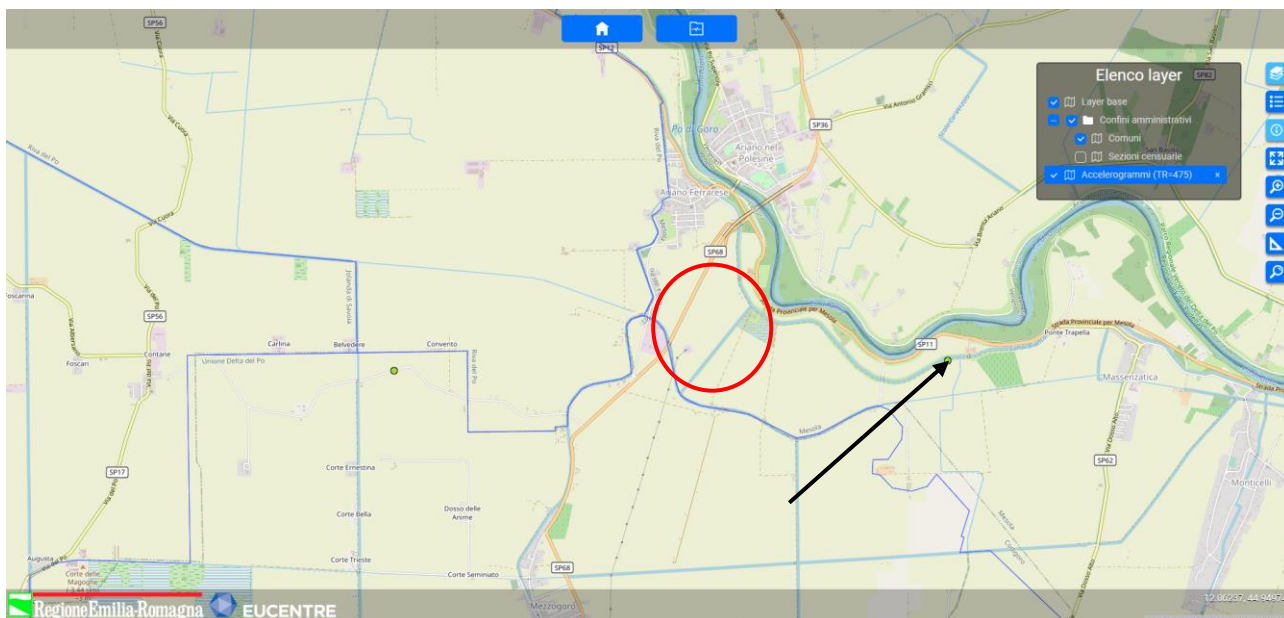
Uno dei programmi sviluppati per questo scopo è stato STRATA che calcola la risposta dinamica monodimensionale (1D) di una colonna di terreno utilizzando un modello di propagazione lineare delle onde, con proprietà variabili in funzione del livello deformativo. Il programma permette di eseguire analisi lineari elastiche (EL), dove le proprietà elastiche e lo smorzamento sono mantenuti costanti, o analisi equivalenti lineari (EQL) dove le proprietà elastiche e lo smorzamento vengono fatti variare in funzione del livello deformativo.

Il progenitore dei programmi 1D che utilizzano il metodo EQL è il programma SHAKE di Schnabel et al. (1972).

La verifica monodimensionale dell'amplificazione locale, tramite l'utilizzo di STRATA si compone di due fasi: elaborazione del modello, simulazione degli effetti indotti dal sisma di progetto. La prima fase consiste nell'inserire i dati (accelerazione, intervalli di tempo), relativi ai segnali di riferimento.

Le analisi di RSL sono state condotte considerando lo SLV con $TR=475$ anni e coefficiente $C_u=0.7$.

Per lo SLV si è fatto riferimento ai sette accelerogrammi selezionati dalla Regione Emilia-Romagna in un nodo più prossimo al sito di interesse TR475_ID14966.



| N. | Magnitude (Mw) | Epic. Distance (km) | Scalin Factor | Source file name |
|-----------|---------------------------|------------------------------------|--------------------------|---|
| 1 | 6.9 | 62.90 | 0.40 % | ESM EU.HRZ..HNE.D.19790415.061941.C.ACC.ASC |
| 2 | 6.93 | 94.31 | 1.24 % | NGA RSN797_LOMAP_RIN000.AT2 |
| 3 | 5.9 | 50.00 | 1.85 % | ESM FC.ALG..HNE.D.19891029.190913.C.ACC.ASC |
| 4 | 6.2 | 81.40 | 1.84 % | NGA RSN2929_CHICHI.04_TTN042W.AT2 |
| 5 | 6.5 | 57.74 | 1.51 % | NGA RSN8167_SANSIMEO_DCPP337.AT2 |
| 6 | 6.6 | 62 | 0.78 % | KiKnet SAGH050503201053.EW2 |
| 7 | 6.5 | 51.3 | 1.08 % | ESM IT.TER..HGN.D.20161030.064018.C.ACC.ASC |

Dopo aver determinato gli input sismici, si è proceduto alla costruzione della colonna di sottosuolo di riferimento rappresentata da strati (layer) a differente tessitura e da diversi valori delle onde di taglio S (Vs).

La stratigrafia che caratterizza il profilo stratigrafico è stata derivata dalle indagini geognostiche e geofisiche realizzate nel sito di interesse e ricavate dai dati del sottosuolo della zona in esame riportati in letteratura.

Dopo aver determinato gli input sismici, si è proceduto alla costruzione della colonna di riferimento rappresentata da strati (layer) a differente tessitura e da diversi valori delle onde di taglio S (Vs).

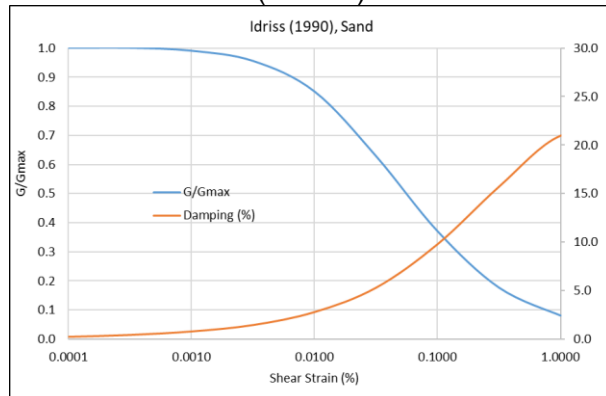
La stratigrafia di input che caratterizza il profilo stratigrafico è stata derivata dalle indagini geognostiche e geofisiche realizzate sul sito di interesse e ricavate dai dati del sottosuolo della zona in esame riportati in letteratura.

Nel caso specifico, in considerazione delle caratteristiche litologiche delle formazioni della zona di interesse, si è fatto riferimento al seguente modello litostratigrafico.

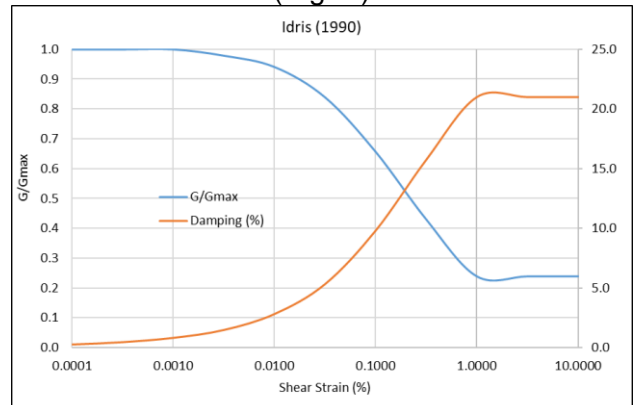
Stratigrafia di input:

| Site Profile | | | | | | | |
|--------------|-----------|---------------|---|----------|--|--|-------------------------------------|
| | Depth (m) | Thickness (m) | Soil Type | Vs (m/s) | Minimum (m/s) | Maximum (m/s) | Varied |
| 1 | 0.00 | 10.00 | argille | 130.00 | <input checked="" type="checkbox"/> 120.00 | <input checked="" type="checkbox"/> 150.00 | <input checked="" type="checkbox"/> |
| 2 | 10.00 | 5.00 | sabbie | 260.00 | <input checked="" type="checkbox"/> 220.00 | <input checked="" type="checkbox"/> 300.00 | <input checked="" type="checkbox"/> |
| 3 | 15.00 | 11.00 | suoli medio bassa prof. (EPRI 120-250 ft) | 290.00 | <input checked="" type="checkbox"/> 250.00 | <input checked="" type="checkbox"/> 300.00 | <input checked="" type="checkbox"/> |
| 4 | 26.00 | 7.00 | sabbie | 320.00 | <input checked="" type="checkbox"/> 280.00 | <input checked="" type="checkbox"/> 350.00 | <input checked="" type="checkbox"/> |
| 5 | 33.00 | 11.00 | suoli medio bassa prof. (EPRI 120-250 ft) | 360.00 | <input checked="" type="checkbox"/> 300.00 | <input checked="" type="checkbox"/> 390.00 | <input checked="" type="checkbox"/> |
| 6 | 44.00 | 50.00 | suoli medio bassa prof. (EPRI 120-250 ft) | 490.00 | <input checked="" type="checkbox"/> 400.00 | <input checked="" type="checkbox"/> 530.00 | <input checked="" type="checkbox"/> |
| 7 | 94.00 | 60.00 | suoli media prof (GEI 250 - 500 ft) | 550.00 | <input checked="" type="checkbox"/> 500.00 | <input checked="" type="checkbox"/> 600.00 | <input checked="" type="checkbox"/> |
| 8 | 154.00 | 70.00 | suoli prof. (EPRI 500-1000 ft) | 770.00 | <input checked="" type="checkbox"/> 700.00 | <input checked="" type="checkbox"/> 800.00 | <input checked="" type="checkbox"/> |
| 9 | 224.00 | Half-Space | Bedrock | 820.00 | <input checked="" type="checkbox"/> 800.00 | <input checked="" type="checkbox"/> 850.00 | <input checked="" type="checkbox"/> |

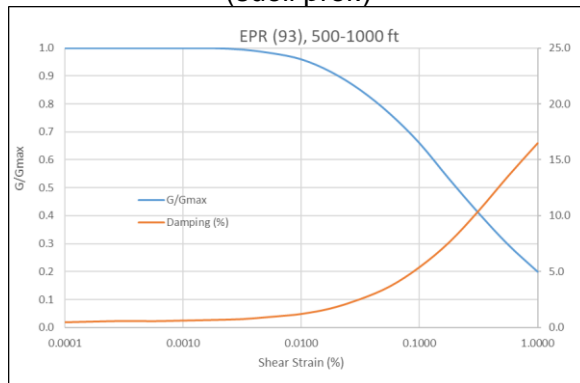
Sand Mean (Seed & Idriss) (Sabbia)



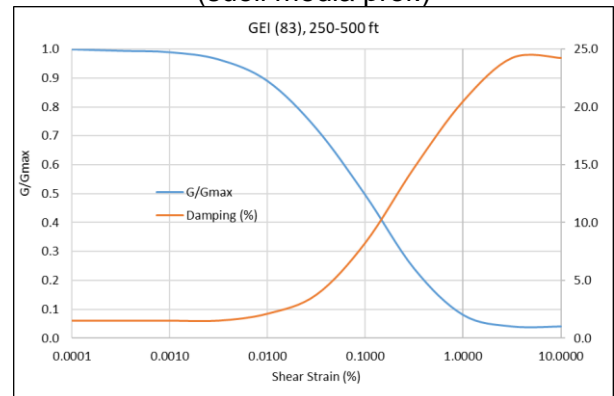
Clay (Seed & Idriss) (argilla)



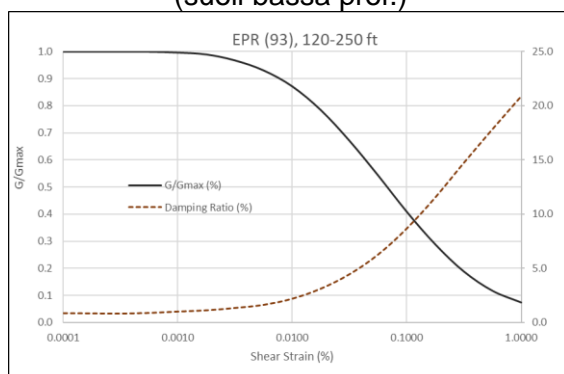
EPR(93), 500-1000 ft (suoli prof.)



GEI (83), 250-500 ft (suoli media prof.)



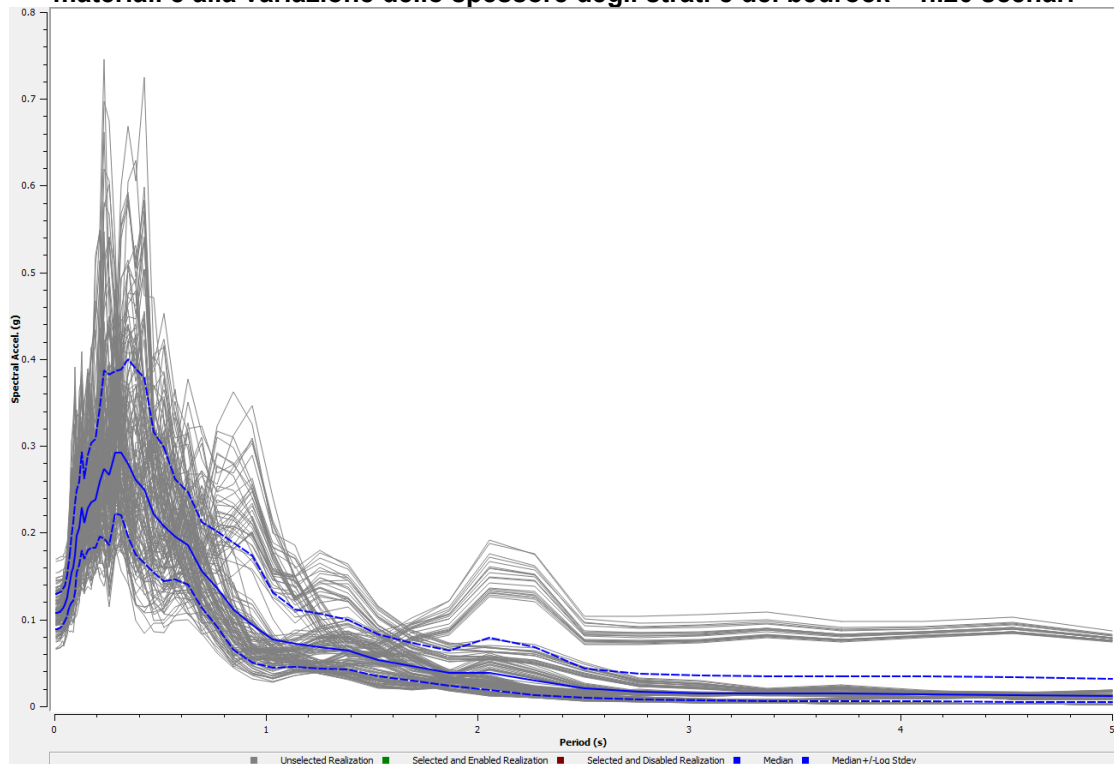
EPR(93), 120-250 ft (suoli bassa prof.)



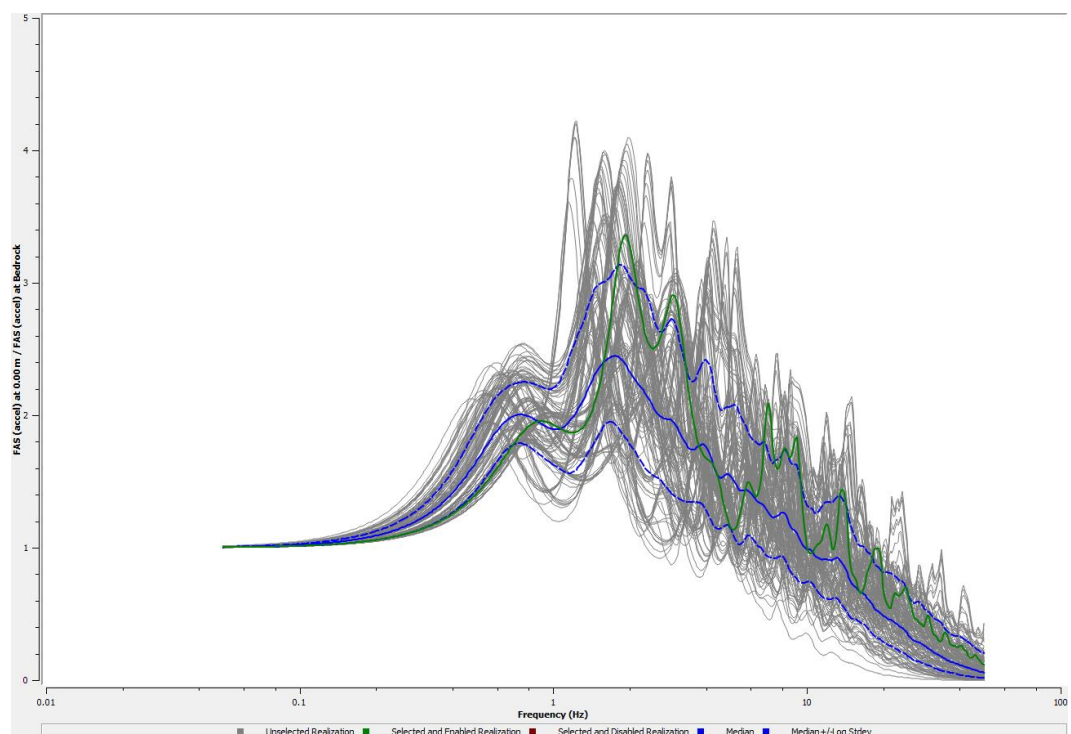
Utilizzando il programma STRATA si riportano i dati ricavati dalla modellazione numerica monodimensionale. Nella modellazione si è proceduto ad una analisi probabilistica facendo variare in modo automatico le velocità delle onde di taglio per ogni strato, il profilo stratigrafico, le caratteristiche dei terreni. Sono stati elaborati n. 20 scenari.

Stato Limite della Vita – SLV

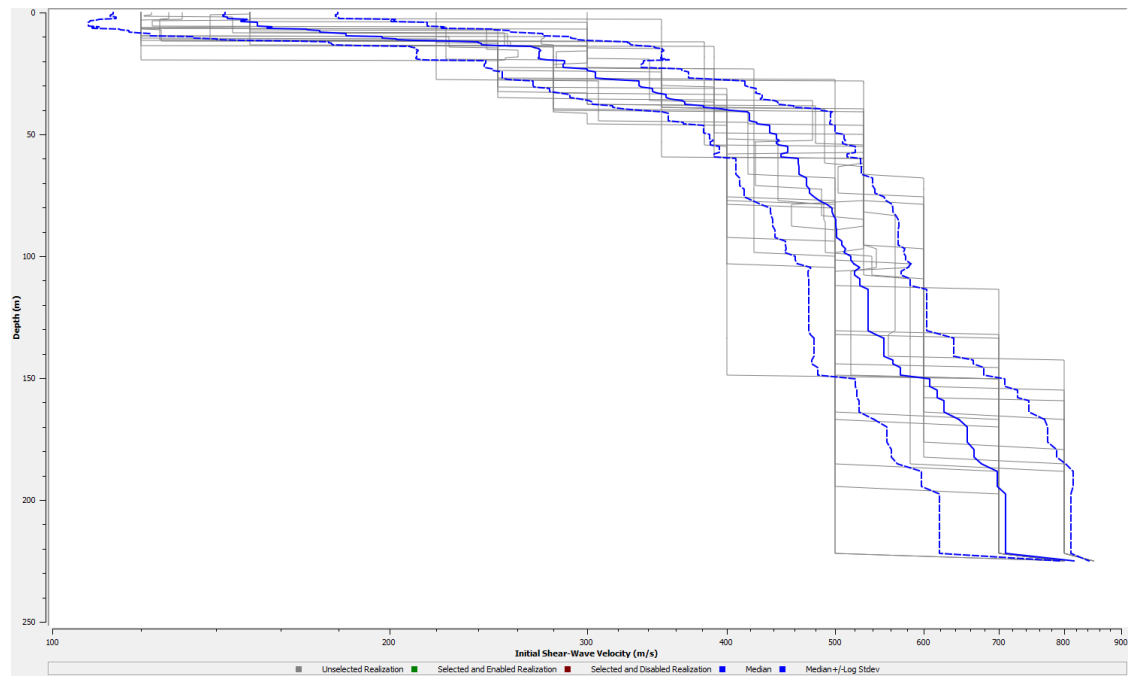
Spettri elastici relativi ai possibili scenari in base alla variazione della V_s , delle curve di smorzamento dei materiali e alla variazione dello spessore degli strati e del bedrock – n.20 scenari



Funzione di trasferimento substrato sismico- superficie



Profilo di Vs iniziale considerato nel Modello STRATA

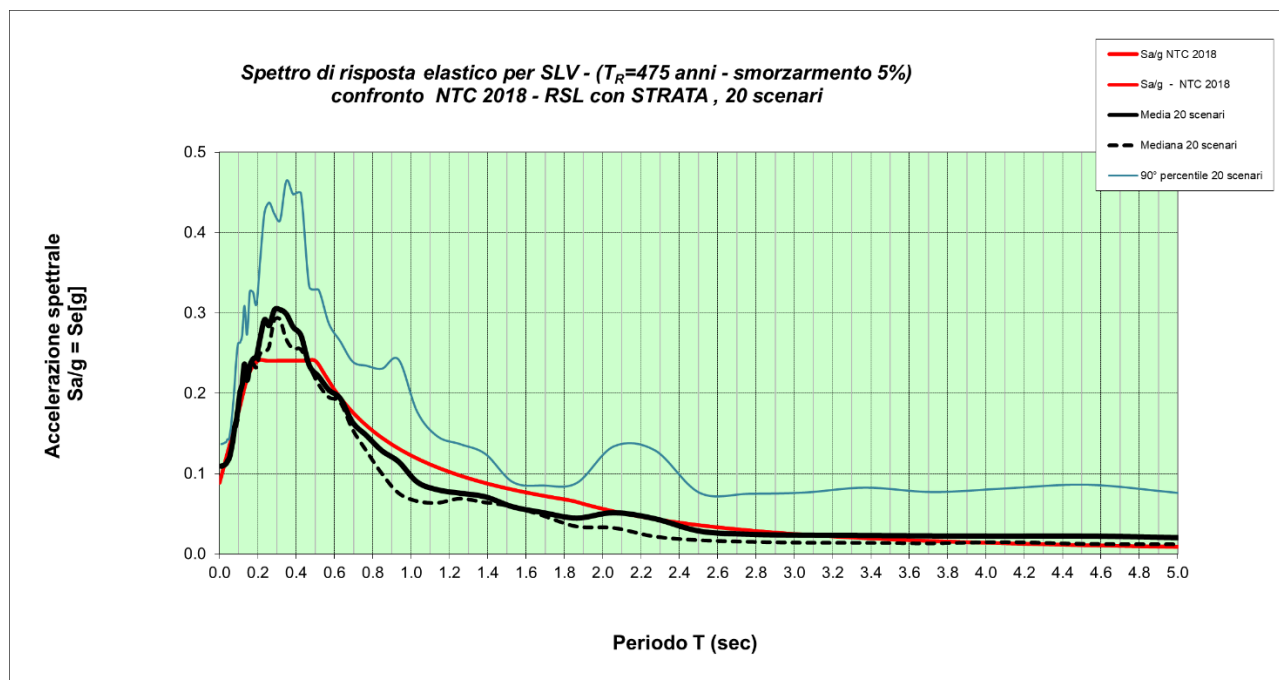


Profilo di Vs finale considerato nel Modello STRATA



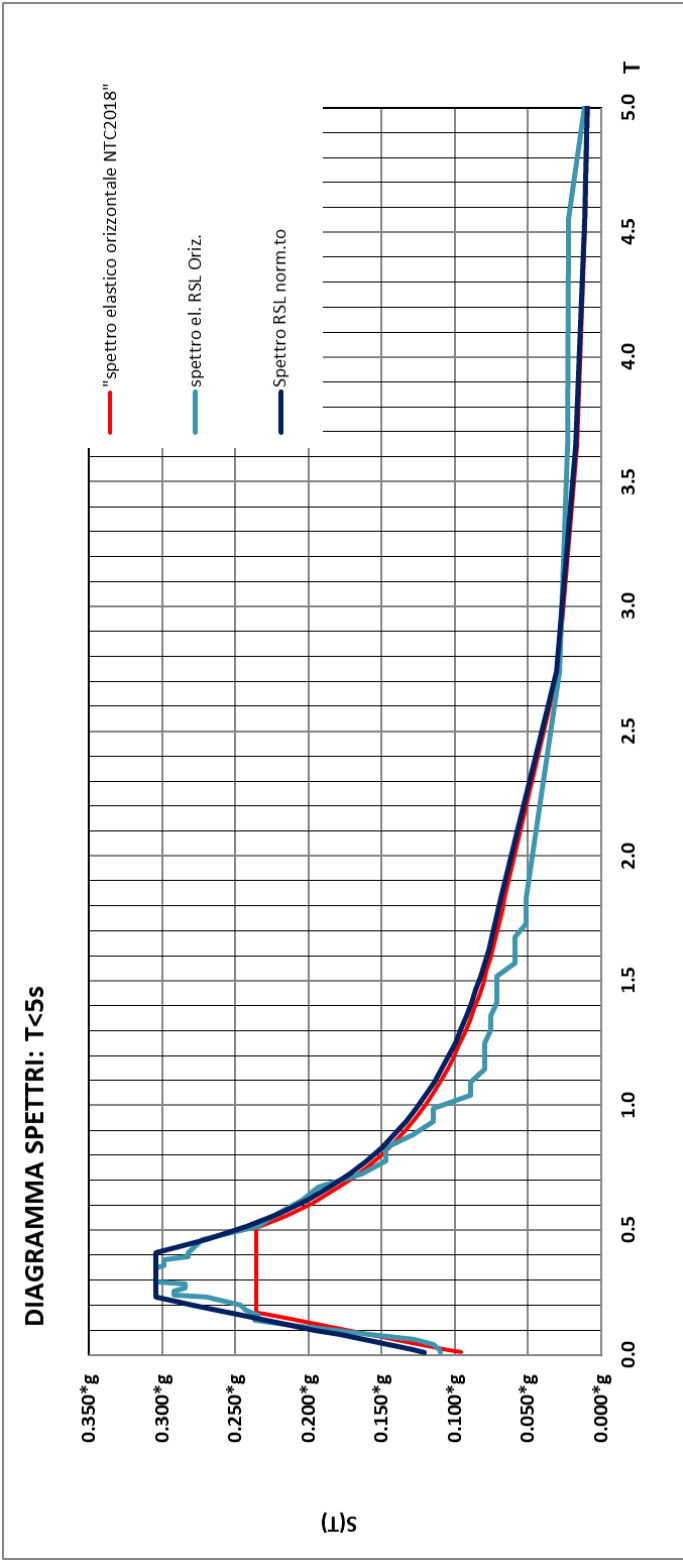
Facendo riferimento ai venti scenari elaborati, si osserva che lo spettro elastico orizzontale medio risulta sempre inferiore, al massimo uguale, allo spettro elastico semplificato proposto dalle NTC2018.

| periodo al suolo T_0 (sec) | mediana | media | Stdev (σ) | media + σ | 90° percentile |
|------------------------------------|---------|--------|--------------------|------------------|-------------------|
| 0 | 0.108g | 0.109g | 0.020g | 0.137g | 0.170g |



Normalizzazione dello scenario media dei 20 scenari elaborati da RSL.

| | T | Se(T)rsi | Se(T)norm |
|----------|-------|----------|-----------|
| 0s<T<Tb | 0.01 | 0.109*g | 0.121*g |
| | 0.020 | 0.110*g | 0.129*g |
| | 0.04 | 0.115*g | 0.146*g |
| | 0.06 | 0.128*g | 0.162*g |
| | 0.08 | 0.159*g | 0.179*g |
| | 0.10 | 0.182*g | 0.196*g |
| | 0.12 | 0.211*g | 0.212*g |
| | 0.14 | 0.236*g | 0.229*g |
| | 0.16 | 0.234*g | 0.246*g |
| | 0.18 | 0.243*g | 0.263*g |
| Tbs<T<Tc | 0.20 | 0.246*g | 0.279*g |
| | 0.23 | 0.270*g | 0.304*g |
| | 0.009 | 0.292*g | 0.304*g |
| | 0.25 | 0.292*g | 0.304*g |
| | 0.26 | 0.292*g | 0.304*g |
| | 0.27 | 0.285*g | 0.304*g |
| | 0.28 | 0.285*g | 0.304*g |
| | 0.28 | 0.285*g | 0.304*g |
| | 0.29 | 0.304*g | 0.304*g |
| | 0.30 | 0.304*g | 0.304*g |
| Tcs<T<Td | 0.31 | 0.304*g | 0.304*g |
| | 0.32 | 0.304*g | 0.304*g |
| | 0.33 | 0.304*g | 0.304*g |
| | 0.34 | 0.304*g | 0.304*g |
| | 0.35 | 0.304*g | 0.304*g |
| | 0.36 | 0.299*g | 0.304*g |
| | 0.37 | 0.299*g | 0.304*g |
| | 0.37 | 0.299*g | 0.304*g |
| | 0.38 | 0.299*g | 0.304*g |
| | 0.39 | 0.282*g | 0.304*g |
| Tds<T | 0.40 | 0.282*g | 0.304*g |
| | 0.41 | 0.282*g | 0.304*g |
| | 0.053 | 0.272*g | 0.270*g |
| | 0.52 | 0.235*g | 0.242*g |
| | 0.57 | 0.221*g | 0.220*g |
| | 0.62 | 0.204*g | 0.201*g |
| | 0.67 | 0.194*g | 0.185*g |
| | 0.73 | 0.163*g | 0.172*g |
| | 0.78 | 0.147*g | 0.160*g |
| | 0.83 | 0.147*g | 0.150*g |
| | 0.88 | 0.128*g | 0.141*g |
| | 0.94 | 0.115*g | 0.133*g |
| | 0.99 | 0.115*g | 0.126*g |
| | 1.04 | 0.089*g | 0.120*g |
| | 1.09 | 0.089*g | 0.114*g |
| | 1.15 | 0.080*g | 0.109*g |
| | 1.20 | 0.080*g | 0.104*g |
| | 1.25 | 0.080*g | 0.100*g |
| | 1.31 | 0.075*g | 0.096*g |
| | 1.36 | 0.075*g | 0.092*g |
| | 1.41 | 0.071*g | 0.088*g |
| | 1.46 | 0.071*g | 0.085*g |
| | 1.52 | 0.071*g | 0.082*g |
| | 1.57 | 0.058*g | 0.080*g |
| | 1.62 | 0.058*g | 0.077*g |
| | 1.67 | 0.058*g | 0.075*g |
| | 1.73 | 0.051*g | 0.072*g |
| | 1.78 | 0.051*g | 0.070*g |
| | 1.83 | 0.051*g | 0.068*g |
| | 0.908 | 0.028*g | 0.030*g |
| | 3.65 | 0.023*g | 0.017*g |
| | 4.55 | 0.022*g | 0.011*g |



Novembre, 2023

Allegato 4

Verifica potenziale liquefazione

LIQUEFACTION ANALYSIS REPORT

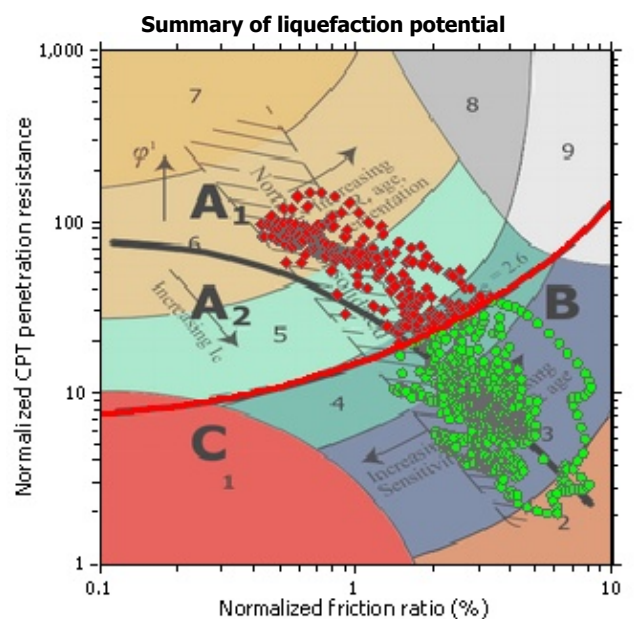
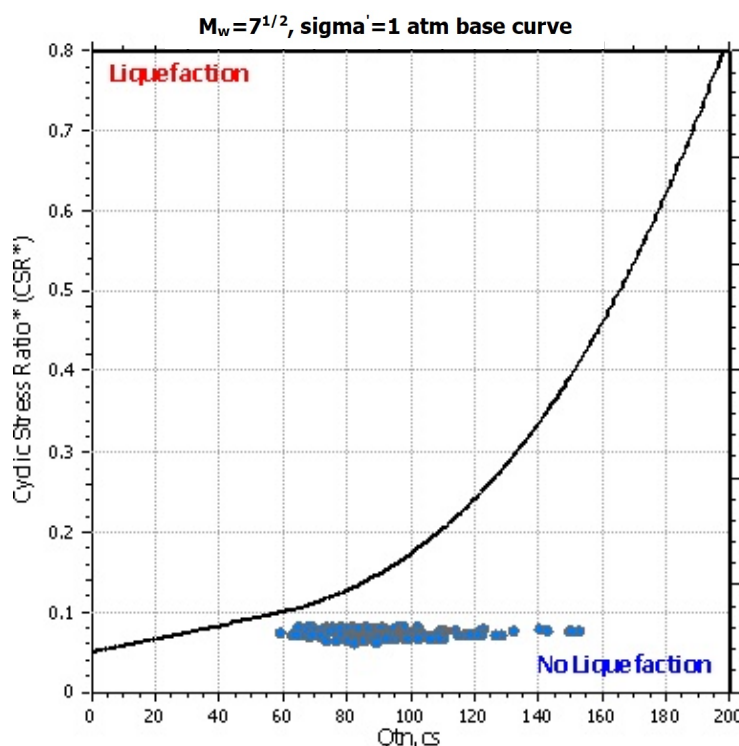
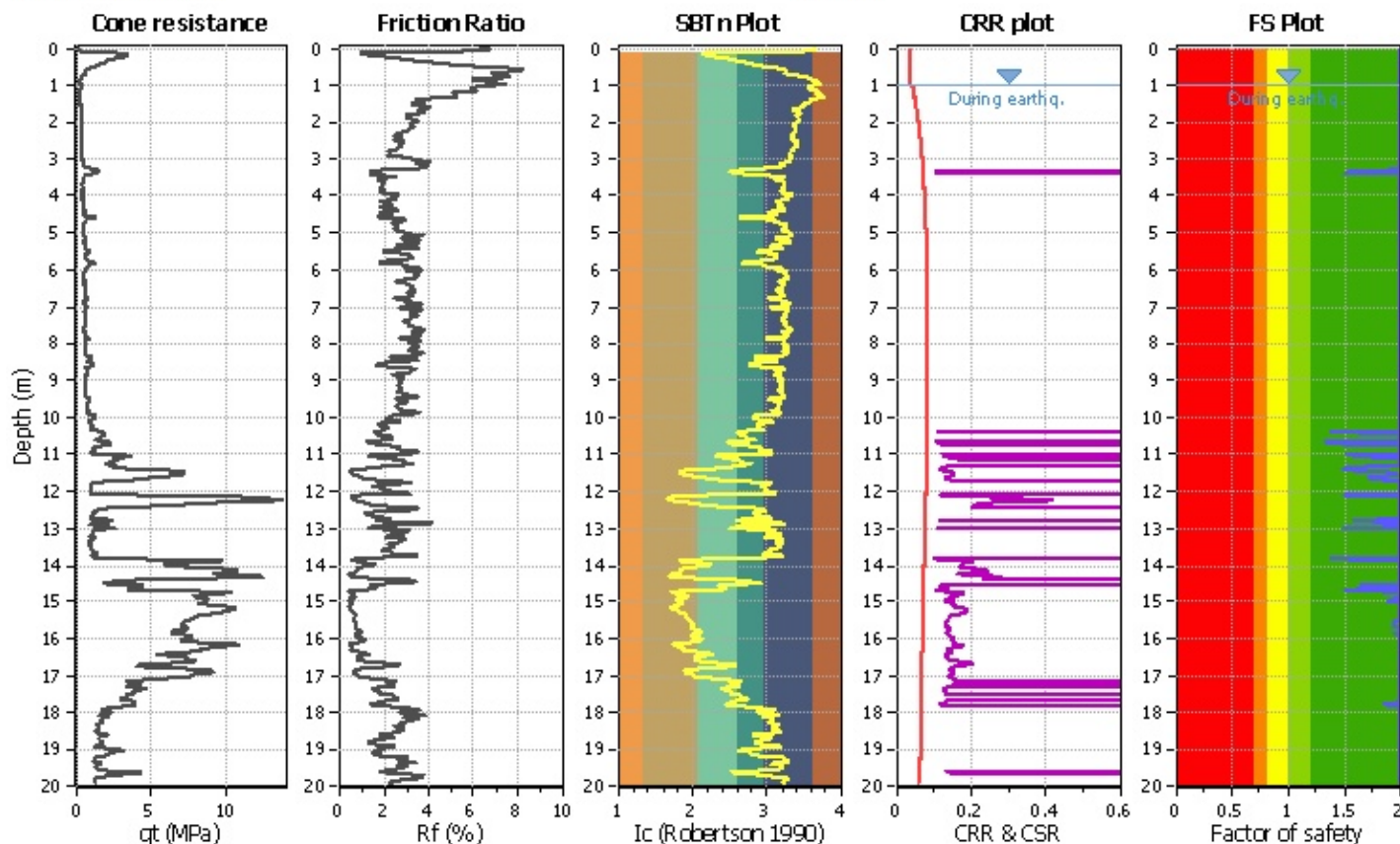
Project title :

Location :

CPT file : CPTU1

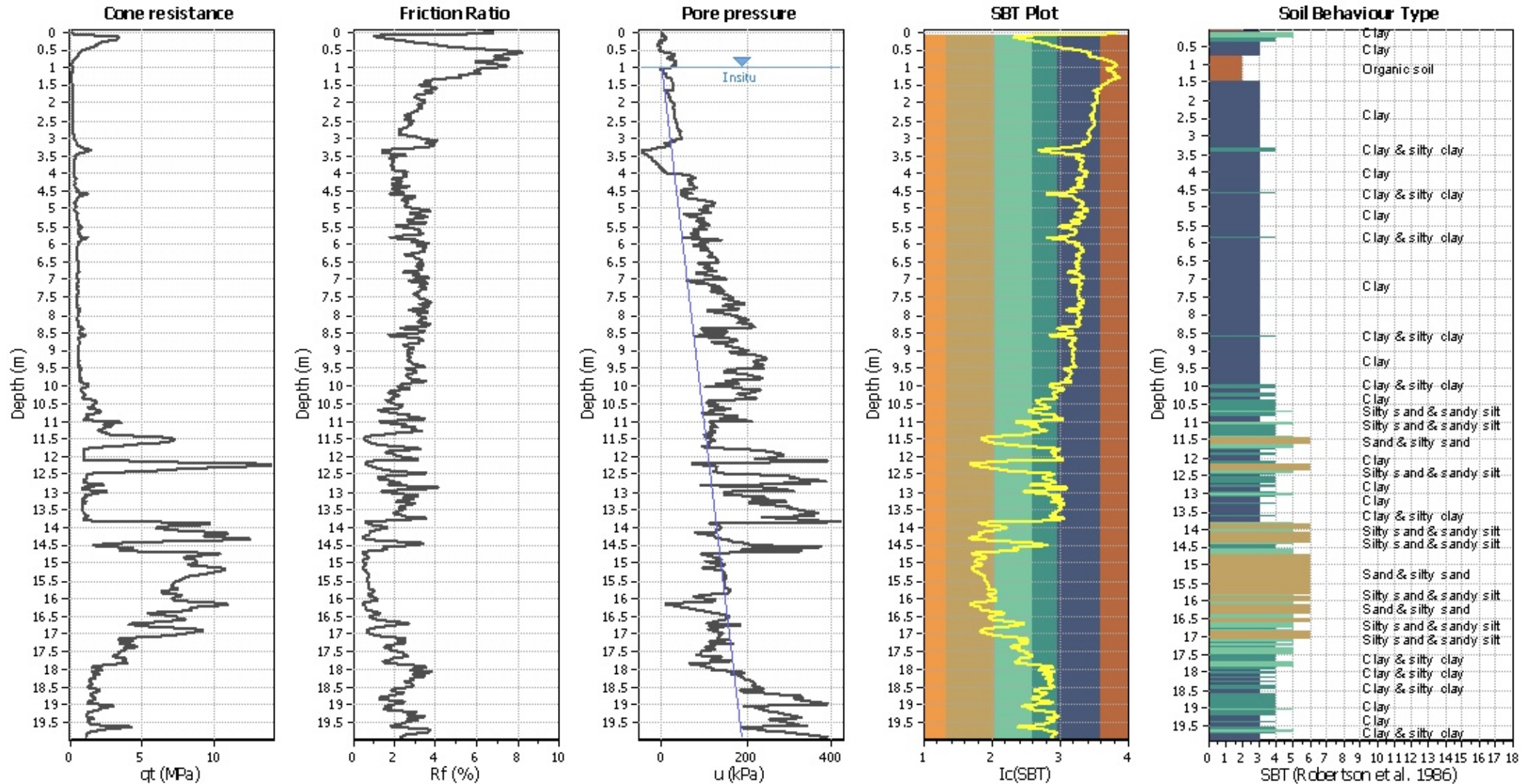
Input parameters and analysis data

| | | | | | | | |
|------------------------------|-------------------|---------------------------|--------------|-------------------------|-----|----------------------|--------------|
| Analysis method: | NCEER (1998) | G.W.T. (in-situ): | 1.00 m | Use fill: | No | Clay like behavior | |
| Fines correction method: | NCEER (1998) | G.W.T. (earthq.): | 1.00 m | Fill height: | N/A | applied: | Sands only |
| Points to test: | Based on Ic value | Average results interval: | 3 | Fill weight: | N/A | Limit depth applied: | No |
| Earthquake magnitude M_w : | 5.00 | Ic cut-off value: | 2.60 | Trans. detect. applied: | No | Limit depth: | N/A |
| Peak ground acceleration: | 0.17 | Unit weight calculation: | Based on SBT | K_0 applied: | Yes | MSF method: | Method based |



Zone A₁: Cyclic liquefaction likely depending on size and duration of cyclic loading
 Zone A₂: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
 Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
 Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

CPT basic interpretation plo



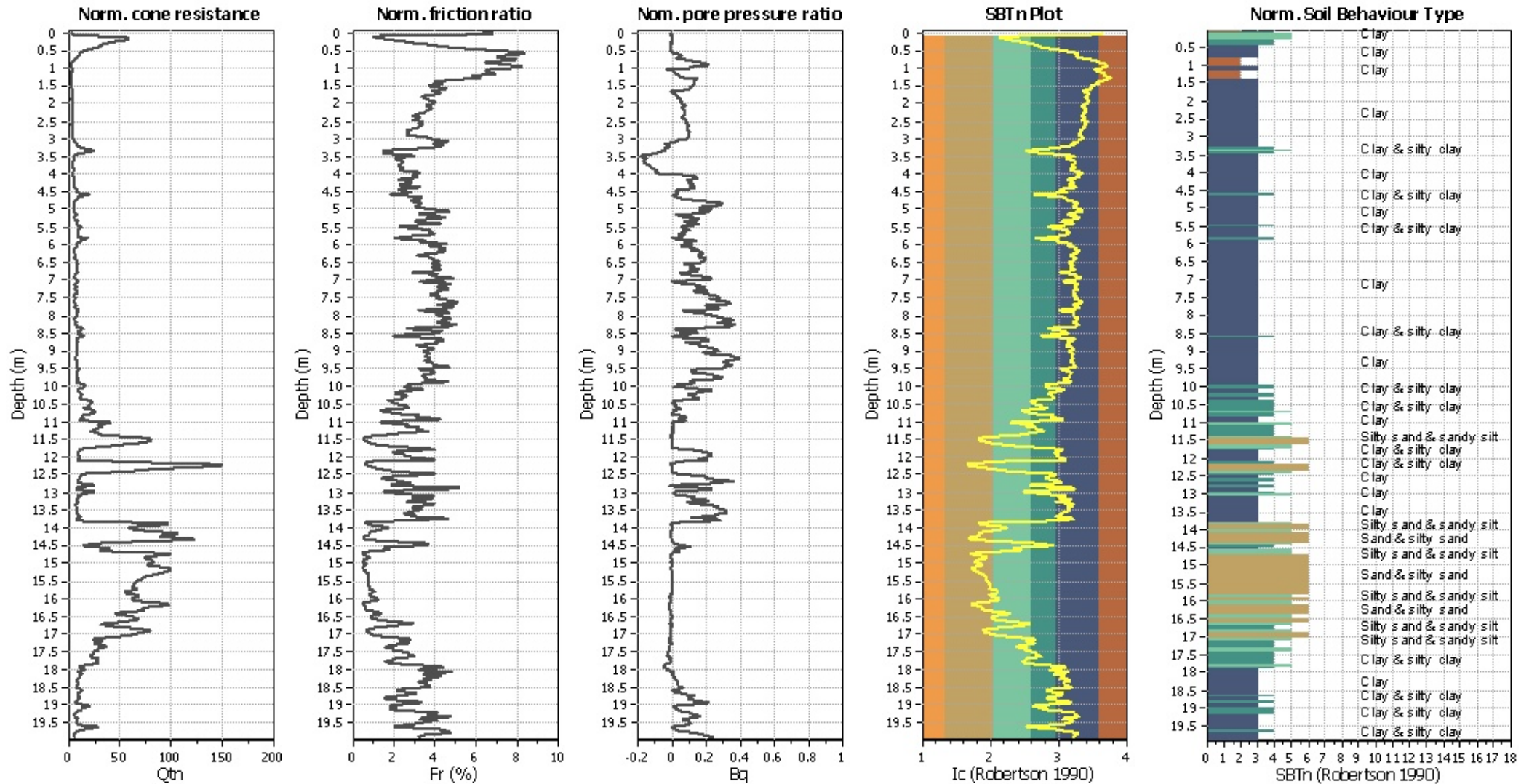
Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 5.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

SBT legend

| | | |
|---------------------------|-----------------------------|----------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty | 7. Gravely sand to sand |
| 2. Organic material | 5. Silty sand to sandy silt | 8. Very stiff sand to |
| 3. Clay to silty clay | 6. Clean sand to silty sand | 9. Very stiff fine grained |

CPT basic interpretation plots (normaliz



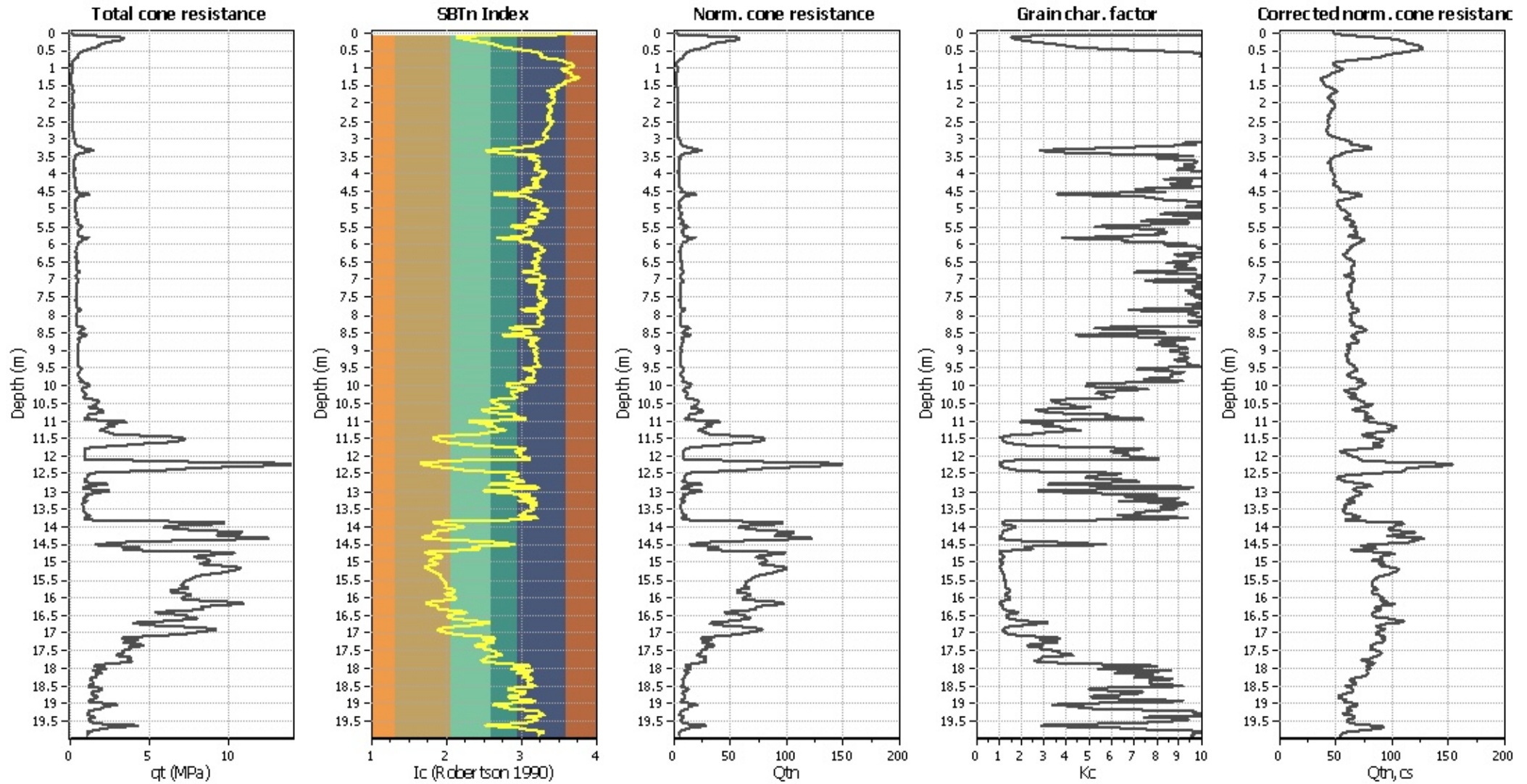
Input parameters and analysis data

| | | | | | |
|---------------------------------------|-------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K ₀ applied: | Yes |
| Earthquake magnitude M _w : | 5.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

SBTn legend

| | | |
|---------------------------|-----------------------------|----------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty | 7. Gravely sand to sand |
| 2. Organic material | 5. Silty sand to sandy silt | 8. Very stiff sand to |
| 3. Clay to silty clay | 6. Clean sand to silty sand | 9. Very stiff fine grained |

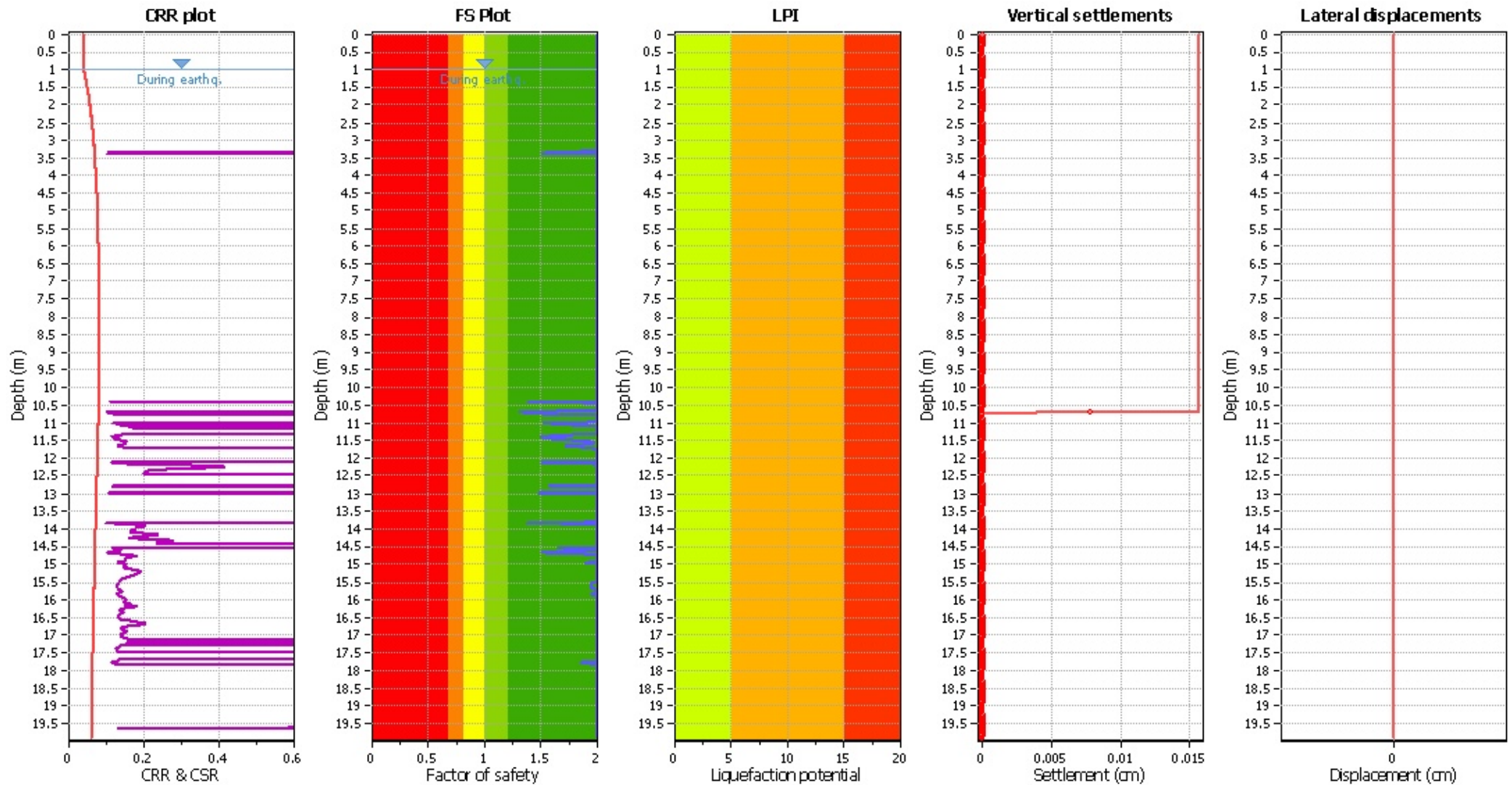
Liquefaction analysis overall plots (intermediate res)



Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_{σ} applied: | Yes |
| Earthquake magnitude M_w : | 5.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

Liquefaction analysis overall plot



Input parameters and analysis data

| | | | | | |
|--------------------------------|-------------------|---------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (earthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 5.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

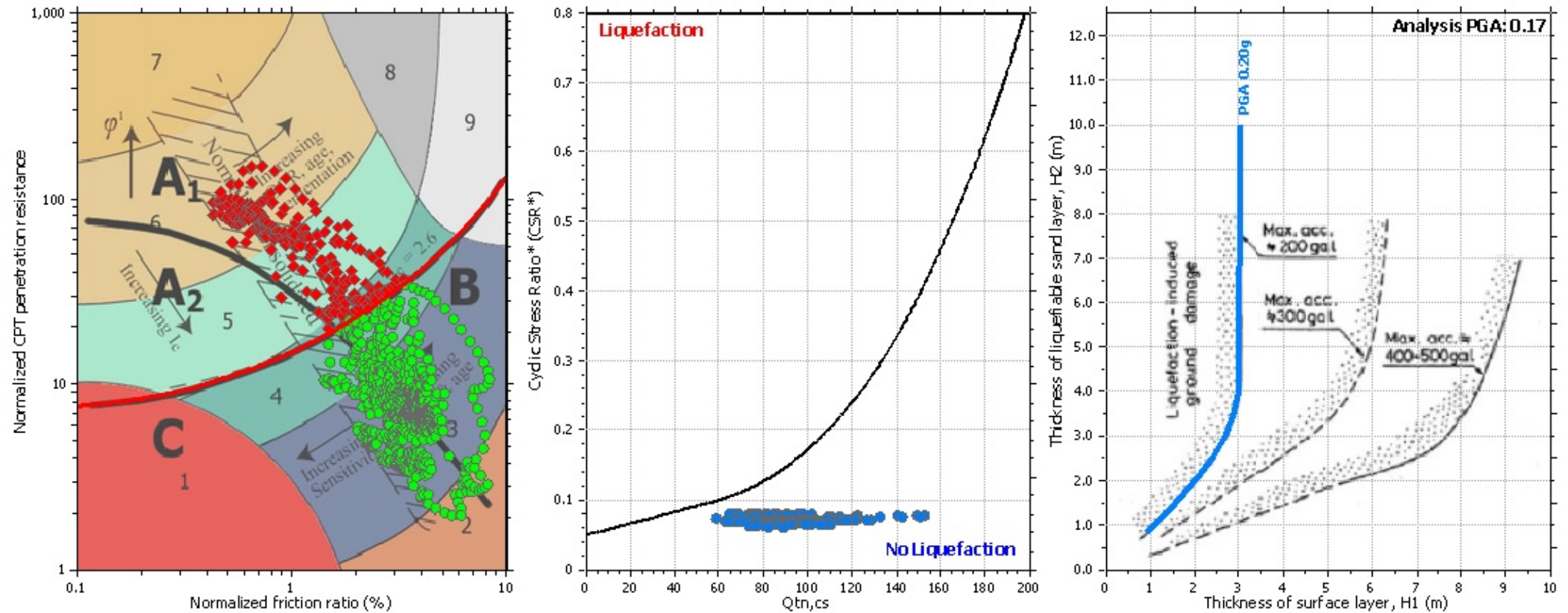
F.S. color scheme

| | |
|---|---|
| ■ | Almost certain it will liquefy |
| ■ | Very likely to liquefy |
| ■ | Liquefaction and no liq. are equally likely |
| ■ | Unlike to liquefy |
| ■ | Almost certain it will not liquefy |

LPI color scheme

| | |
|---------------------------------------|----------------|
| ■ | Very high risk |
| ■ | High risk |
| ■ | Low risk |

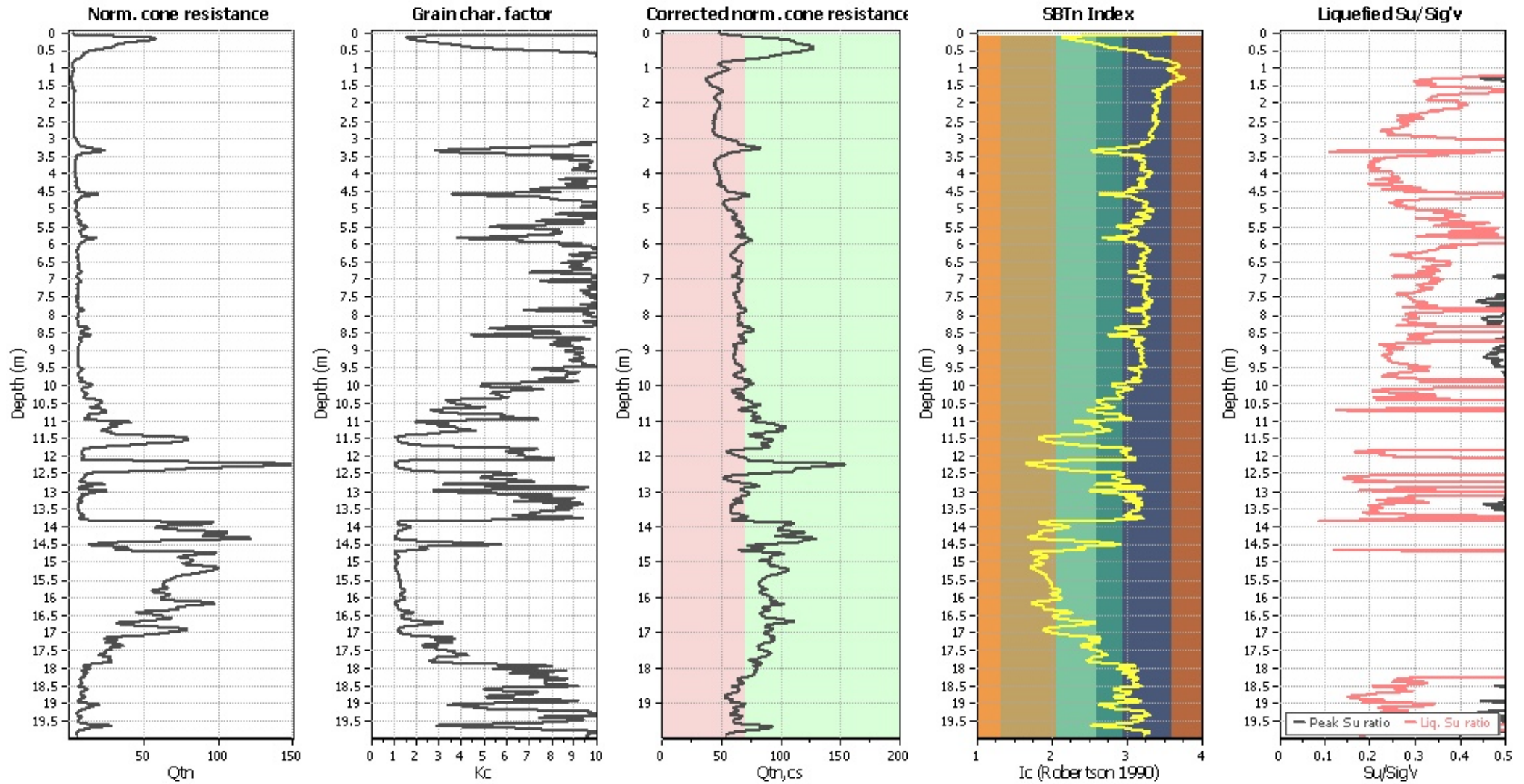
Liquefaction analysis summary plo



Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 5.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

Check for strength loss plots (Robertson (2010))



Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 5.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

| :: Liquefaction Potential Index calculation data :: | | | | | | | | | | | |
|---|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
| 0.02 | 2.00 | 0.00 | 9.99 | 0.02 | 0.00 | 0.04 | 2.00 | 0.00 | 9.98 | 0.02 | 0.00 |
| 0.06 | 2.00 | 0.00 | 9.97 | 0.02 | 0.00 | 0.08 | 2.00 | 0.00 | 9.96 | 0.02 | 0.00 |
| 0.10 | 2.00 | 0.00 | 9.95 | 0.02 | 0.00 | 0.12 | 2.00 | 0.00 | 9.94 | 0.02 | 0.00 |
| 0.14 | 2.00 | 0.00 | 9.93 | 0.02 | 0.00 | 0.16 | 2.00 | 0.00 | 9.92 | 0.02 | 0.00 |
| 0.18 | 2.00 | 0.00 | 9.91 | 0.02 | 0.00 | 0.20 | 2.00 | 0.00 | 9.90 | 0.02 | 0.00 |
| 0.22 | 2.00 | 0.00 | 9.89 | 0.02 | 0.00 | 0.24 | 2.00 | 0.00 | 9.88 | 0.02 | 0.00 |
| 0.26 | 2.00 | 0.00 | 9.87 | 0.02 | 0.00 | 0.28 | 2.00 | 0.00 | 9.86 | 0.02 | 0.00 |
| 0.30 | 2.00 | 0.00 | 9.85 | 0.02 | 0.00 | 0.32 | 2.00 | 0.00 | 9.84 | 0.02 | 0.00 |
| 0.34 | 2.00 | 0.00 | 9.83 | 0.02 | 0.00 | 0.36 | 2.00 | 0.00 | 9.82 | 0.02 | 0.00 |
| 0.38 | 2.00 | 0.00 | 9.81 | 0.02 | 0.00 | 0.40 | 2.00 | 0.00 | 9.80 | 0.02 | 0.00 |
| 0.42 | 2.00 | 0.00 | 9.79 | 0.02 | 0.00 | 0.44 | 2.00 | 0.00 | 9.78 | 0.02 | 0.00 |
| 0.46 | 2.00 | 0.00 | 9.77 | 0.02 | 0.00 | 0.48 | 2.00 | 0.00 | 9.76 | 0.02 | 0.00 |
| 0.50 | 2.00 | 0.00 | 9.75 | 0.02 | 0.00 | 0.52 | 2.00 | 0.00 | 9.74 | 0.02 | 0.00 |
| 0.54 | 2.00 | 0.00 | 9.73 | 0.02 | 0.00 | 0.56 | 2.00 | 0.00 | 9.72 | 0.02 | 0.00 |
| 0.58 | 2.00 | 0.00 | 9.71 | 0.02 | 0.00 | 0.60 | 2.00 | 0.00 | 9.70 | 0.02 | 0.00 |
| 0.62 | 2.00 | 0.00 | 9.69 | 0.02 | 0.00 | 0.64 | 2.00 | 0.00 | 9.68 | 0.02 | 0.00 |
| 0.66 | 2.00 | 0.00 | 9.67 | 0.02 | 0.00 | 0.68 | 2.00 | 0.00 | 9.66 | 0.02 | 0.00 |
| 0.70 | 2.00 | 0.00 | 9.65 | 0.02 | 0.00 | 0.72 | 2.00 | 0.00 | 9.64 | 0.02 | 0.00 |
| 0.74 | 2.00 | 0.00 | 9.63 | 0.02 | 0.00 | 0.76 | 2.00 | 0.00 | 9.62 | 0.02 | 0.00 |
| 0.78 | 2.00 | 0.00 | 9.61 | 0.02 | 0.00 | 0.80 | 2.00 | 0.00 | 9.60 | 0.02 | 0.00 |
| 0.82 | 2.00 | 0.00 | 9.59 | 0.02 | 0.00 | 0.84 | 2.00 | 0.00 | 9.58 | 0.02 | 0.00 |
| 0.86 | 2.00 | 0.00 | 9.57 | 0.02 | 0.00 | 0.88 | 2.00 | 0.00 | 9.56 | 0.02 | 0.00 |
| 0.90 | 2.00 | 0.00 | 9.55 | 0.02 | 0.00 | 0.92 | 2.00 | 0.00 | 9.54 | 0.02 | 0.00 |
| 0.94 | 2.00 | 0.00 | 9.53 | 0.02 | 0.00 | 0.96 | 2.00 | 0.00 | 9.52 | 0.02 | 0.00 |
| 0.98 | 2.00 | 0.00 | 9.51 | 0.02 | 0.00 | 1.00 | 2.00 | 0.00 | 9.50 | 0.02 | 0.00 |
| 1.02 | 2.00 | 0.00 | 9.49 | 0.02 | 0.00 | 1.04 | 2.00 | 0.00 | 9.48 | 0.02 | 0.00 |
| 1.06 | 2.00 | 0.00 | 9.47 | 0.02 | 0.00 | 1.08 | 2.00 | 0.00 | 9.46 | 0.02 | 0.00 |
| 1.10 | 2.00 | 0.00 | 9.45 | 0.02 | 0.00 | 1.12 | 2.00 | 0.00 | 9.44 | 0.02 | 0.00 |
| 1.14 | 2.00 | 0.00 | 9.43 | 0.02 | 0.00 | 1.16 | 2.00 | 0.00 | 9.42 | 0.02 | 0.00 |
| 1.18 | 2.00 | 0.00 | 9.41 | 0.02 | 0.00 | 1.20 | 2.00 | 0.00 | 9.40 | 0.02 | 0.00 |
| 1.22 | 2.00 | 0.00 | 9.39 | 0.02 | 0.00 | 1.24 | 2.00 | 0.00 | 9.38 | 0.02 | 0.00 |
| 1.26 | 2.00 | 0.00 | 9.37 | 0.02 | 0.00 | 1.28 | 2.00 | 0.00 | 9.36 | 0.02 | 0.00 |
| 1.30 | 2.00 | 0.00 | 9.35 | 0.02 | 0.00 | 1.32 | 2.00 | 0.00 | 9.34 | 0.02 | 0.00 |
| 1.34 | 2.00 | 0.00 | 9.33 | 0.02 | 0.00 | 1.36 | 2.00 | 0.00 | 9.32 | 0.02 | 0.00 |
| 1.38 | 2.00 | 0.00 | 9.31 | 0.02 | 0.00 | 1.40 | 2.00 | 0.00 | 9.30 | 0.02 | 0.00 |
| 1.42 | 2.00 | 0.00 | 9.29 | 0.02 | 0.00 | 1.44 | 2.00 | 0.00 | 9.28 | 0.02 | 0.00 |
| 1.46 | 2.00 | 0.00 | 9.27 | 0.02 | 0.00 | 1.48 | 2.00 | 0.00 | 9.26 | 0.02 | 0.00 |
| 1.50 | 2.00 | 0.00 | 9.25 | 0.02 | 0.00 | 1.52 | 2.00 | 0.00 | 9.24 | 0.02 | 0.00 |
| 1.54 | 2.00 | 0.00 | 9.23 | 0.02 | 0.00 | 1.56 | 2.00 | 0.00 | 9.22 | 0.02 | 0.00 |
| 1.58 | 2.00 | 0.00 | 9.21 | 0.02 | 0.00 | 1.60 | 2.00 | 0.00 | 9.20 | 0.02 | 0.00 |
| 1.62 | 2.00 | 0.00 | 9.19 | 0.02 | 0.00 | 1.64 | 2.00 | 0.00 | 9.18 | 0.02 | 0.00 |
| 1.66 | 2.00 | 0.00 | 9.17 | 0.02 | 0.00 | 1.68 | 2.00 | 0.00 | 9.16 | 0.02 | 0.00 |
| 1.70 | 2.00 | 0.00 | 9.15 | 0.02 | 0.00 | 1.72 | 2.00 | 0.00 | 9.14 | 0.02 | 0.00 |
| 1.74 | 2.00 | 0.00 | 9.13 | 0.02 | 0.00 | 1.76 | 2.00 | 0.00 | 9.12 | 0.02 | 0.00 |
| 1.78 | 2.00 | 0.00 | 9.11 | 0.02 | 0.00 | 1.80 | 2.00 | 0.00 | 9.10 | 0.02 | 0.00 |
| 1.82 | 2.00 | 0.00 | 9.09 | 0.02 | 0.00 | 1.84 | 2.00 | 0.00 | 9.08 | 0.02 | 0.00 |
| 1.86 | 2.00 | 0.00 | 9.07 | 0.02 | 0.00 | 1.88 | 2.00 | 0.00 | 9.06 | 0.02 | 0.00 |
| 1.90 | 2.00 | 0.00 | 9.05 | 0.02 | 0.00 | 1.92 | 2.00 | 0.00 | 9.04 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 1.94 | 2.00 | 0.00 | 9.03 | 0.02 | 0.00 | 1.96 | 2.00 | 0.00 | 9.02 | 0.02 | 0.00 |
| 1.98 | 2.00 | 0.00 | 9.01 | 0.02 | 0.00 | 2.00 | 2.00 | 0.00 | 9.00 | 0.02 | 0.00 |
| 2.02 | 2.00 | 0.00 | 8.99 | 0.02 | 0.00 | 2.04 | 2.00 | 0.00 | 8.98 | 0.02 | 0.00 |
| 2.06 | 2.00 | 0.00 | 8.97 | 0.02 | 0.00 | 2.08 | 2.00 | 0.00 | 8.96 | 0.02 | 0.00 |
| 2.10 | 2.00 | 0.00 | 8.95 | 0.02 | 0.00 | 2.12 | 2.00 | 0.00 | 8.94 | 0.02 | 0.00 |
| 2.14 | 2.00 | 0.00 | 8.93 | 0.02 | 0.00 | 2.16 | 2.00 | 0.00 | 8.92 | 0.02 | 0.00 |
| 2.18 | 2.00 | 0.00 | 8.91 | 0.02 | 0.00 | 2.20 | 2.00 | 0.00 | 8.90 | 0.02 | 0.00 |
| 2.22 | 2.00 | 0.00 | 8.89 | 0.02 | 0.00 | 2.24 | 2.00 | 0.00 | 8.88 | 0.02 | 0.00 |
| 2.26 | 2.00 | 0.00 | 8.87 | 0.02 | 0.00 | 2.28 | 2.00 | 0.00 | 8.86 | 0.02 | 0.00 |
| 2.30 | 2.00 | 0.00 | 8.85 | 0.02 | 0.00 | 2.32 | 2.00 | 0.00 | 8.84 | 0.02 | 0.00 |
| 2.34 | 2.00 | 0.00 | 8.83 | 0.02 | 0.00 | 2.36 | 2.00 | 0.00 | 8.82 | 0.02 | 0.00 |
| 2.38 | 2.00 | 0.00 | 8.81 | 0.02 | 0.00 | 2.40 | 2.00 | 0.00 | 8.80 | 0.02 | 0.00 |
| 2.42 | 2.00 | 0.00 | 8.79 | 0.02 | 0.00 | 2.44 | 2.00 | 0.00 | 8.78 | 0.02 | 0.00 |
| 2.46 | 2.00 | 0.00 | 8.77 | 0.02 | 0.00 | 2.48 | 2.00 | 0.00 | 8.76 | 0.02 | 0.00 |
| 2.50 | 2.00 | 0.00 | 8.75 | 0.02 | 0.00 | 2.52 | 2.00 | 0.00 | 8.74 | 0.02 | 0.00 |
| 2.54 | 2.00 | 0.00 | 8.73 | 0.02 | 0.00 | 2.56 | 2.00 | 0.00 | 8.72 | 0.02 | 0.00 |
| 2.58 | 2.00 | 0.00 | 8.71 | 0.02 | 0.00 | 2.60 | 2.00 | 0.00 | 8.70 | 0.02 | 0.00 |
| 2.62 | 2.00 | 0.00 | 8.69 | 0.02 | 0.00 | 2.64 | 2.00 | 0.00 | 8.68 | 0.02 | 0.00 |
| 2.66 | 2.00 | 0.00 | 8.67 | 0.02 | 0.00 | 2.68 | 2.00 | 0.00 | 8.66 | 0.02 | 0.00 |
| 2.70 | 2.00 | 0.00 | 8.65 | 0.02 | 0.00 | 2.72 | 2.00 | 0.00 | 8.64 | 0.02 | 0.00 |
| 2.74 | 2.00 | 0.00 | 8.63 | 0.02 | 0.00 | 2.76 | 2.00 | 0.00 | 8.62 | 0.02 | 0.00 |
| 2.78 | 2.00 | 0.00 | 8.61 | 0.02 | 0.00 | 2.80 | 2.00 | 0.00 | 8.60 | 0.02 | 0.00 |
| 2.82 | 2.00 | 0.00 | 8.59 | 0.02 | 0.00 | 2.84 | 2.00 | 0.00 | 8.58 | 0.02 | 0.00 |
| 2.86 | 2.00 | 0.00 | 8.57 | 0.02 | 0.00 | 2.88 | 2.00 | 0.00 | 8.56 | 0.02 | 0.00 |
| 2.90 | 2.00 | 0.00 | 8.55 | 0.02 | 0.00 | 2.92 | 2.00 | 0.00 | 8.54 | 0.02 | 0.00 |
| 2.94 | 2.00 | 0.00 | 8.53 | 0.02 | 0.00 | 2.96 | 2.00 | 0.00 | 8.52 | 0.02 | 0.00 |
| 2.98 | 2.00 | 0.00 | 8.51 | 0.02 | 0.00 | 3.00 | 2.00 | 0.00 | 8.50 | 0.02 | 0.00 |
| 3.02 | 2.00 | 0.00 | 8.49 | 0.02 | 0.00 | 3.04 | 2.00 | 0.00 | 8.48 | 0.02 | 0.00 |
| 3.06 | 2.00 | 0.00 | 8.47 | 0.02 | 0.00 | 3.08 | 2.00 | 0.00 | 8.46 | 0.02 | 0.00 |
| 3.10 | 2.00 | 0.00 | 8.45 | 0.02 | 0.00 | 3.12 | 2.00 | 0.00 | 8.44 | 0.02 | 0.00 |
| 3.14 | 2.00 | 0.00 | 8.43 | 0.02 | 0.00 | 3.16 | 2.00 | 0.00 | 8.42 | 0.02 | 0.00 |
| 3.18 | 2.00 | 0.00 | 8.41 | 0.02 | 0.00 | 3.20 | 2.00 | 0.00 | 8.40 | 0.02 | 0.00 |
| 3.22 | 2.00 | 0.00 | 8.39 | 0.02 | 0.00 | 3.24 | 2.00 | 0.00 | 8.38 | 0.02 | 0.00 |
| 3.26 | 2.00 | 0.00 | 8.37 | 0.02 | 0.00 | 3.28 | 2.00 | 0.00 | 8.36 | 0.02 | 0.00 |
| 3.30 | 2.00 | 0.00 | 8.35 | 0.02 | 0.00 | 3.32 | 1.67 | 0.00 | 8.34 | 0.02 | 0.00 |
| 3.34 | 1.61 | 0.00 | 8.33 | 0.02 | 0.00 | 3.36 | 1.56 | 0.00 | 8.32 | 0.02 | 0.00 |
| 3.38 | 1.51 | 0.00 | 8.31 | 0.02 | 0.00 | 3.40 | 2.00 | 0.00 | 8.30 | 0.02 | 0.00 |
| 3.42 | 2.00 | 0.00 | 8.29 | 0.02 | 0.00 | 3.44 | 2.00 | 0.00 | 8.28 | 0.02 | 0.00 |
| 3.46 | 2.00 | 0.00 | 8.27 | 0.02 | 0.00 | 3.48 | 2.00 | 0.00 | 8.26 | 0.02 | 0.00 |
| 3.50 | 2.00 | 0.00 | 8.25 | 0.02 | 0.00 | 3.52 | 2.00 | 0.00 | 8.24 | 0.02 | 0.00 |
| 3.54 | 2.00 | 0.00 | 8.23 | 0.02 | 0.00 | 3.56 | 2.00 | 0.00 | 8.22 | 0.02 | 0.00 |
| 3.58 | 2.00 | 0.00 | 8.21 | 0.02 | 0.00 | 3.60 | 2.00 | 0.00 | 8.20 | 0.02 | 0.00 |
| 3.62 | 2.00 | 0.00 | 8.19 | 0.02 | 0.00 | 3.64 | 2.00 | 0.00 | 8.18 | 0.02 | 0.00 |
| 3.66 | 2.00 | 0.00 | 8.17 | 0.02 | 0.00 | 3.68 | 2.00 | 0.00 | 8.16 | 0.02 | 0.00 |
| 3.70 | 2.00 | 0.00 | 8.15 | 0.02 | 0.00 | 3.72 | 2.00 | 0.00 | 8.14 | 0.02 | 0.00 |
| 3.74 | 2.00 | 0.00 | 8.13 | 0.02 | 0.00 | 3.76 | 2.00 | 0.00 | 8.12 | 0.02 | 0.00 |
| 3.78 | 2.00 | 0.00 | 8.11 | 0.02 | 0.00 | 3.80 | 2.00 | 0.00 | 8.10 | 0.02 | 0.00 |
| 3.82 | 2.00 | 0.00 | 8.09 | 0.02 | 0.00 | 3.84 | 2.00 | 0.00 | 8.08 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 3.86 | 2.00 | 0.00 | 8.07 | 0.02 | 0.00 | 3.88 | 2.00 | 0.00 | 8.06 | 0.02 | 0.00 |
| 3.90 | 2.00 | 0.00 | 8.05 | 0.02 | 0.00 | 3.92 | 2.00 | 0.00 | 8.04 | 0.02 | 0.00 |
| 3.94 | 2.00 | 0.00 | 8.03 | 0.02 | 0.00 | 3.96 | 2.00 | 0.00 | 8.02 | 0.02 | 0.00 |
| 3.98 | 2.00 | 0.00 | 8.01 | 0.02 | 0.00 | 4.00 | 2.00 | 0.00 | 8.00 | 0.02 | 0.00 |
| 4.02 | 2.00 | 0.00 | 7.99 | 0.02 | 0.00 | 4.04 | 2.00 | 0.00 | 7.98 | 0.02 | 0.00 |
| 4.06 | 2.00 | 0.00 | 7.97 | 0.02 | 0.00 | 4.08 | 2.00 | 0.00 | 7.96 | 0.02 | 0.00 |
| 4.10 | 2.00 | 0.00 | 7.95 | 0.02 | 0.00 | 4.12 | 2.00 | 0.00 | 7.94 | 0.02 | 0.00 |
| 4.14 | 2.00 | 0.00 | 7.93 | 0.02 | 0.00 | 4.16 | 2.00 | 0.00 | 7.92 | 0.02 | 0.00 |
| 4.18 | 2.00 | 0.00 | 7.91 | 0.02 | 0.00 | 4.20 | 2.00 | 0.00 | 7.90 | 0.02 | 0.00 |
| 4.22 | 2.00 | 0.00 | 7.89 | 0.02 | 0.00 | 4.24 | 2.00 | 0.00 | 7.88 | 0.02 | 0.00 |
| 4.26 | 2.00 | 0.00 | 7.87 | 0.02 | 0.00 | 4.28 | 2.00 | 0.00 | 7.86 | 0.02 | 0.00 |
| 4.30 | 2.00 | 0.00 | 7.85 | 0.02 | 0.00 | 4.32 | 2.00 | 0.00 | 7.84 | 0.02 | 0.00 |
| 4.34 | 2.00 | 0.00 | 7.83 | 0.02 | 0.00 | 4.36 | 2.00 | 0.00 | 7.82 | 0.02 | 0.00 |
| 4.38 | 2.00 | 0.00 | 7.81 | 0.02 | 0.00 | 4.40 | 2.00 | 0.00 | 7.80 | 0.02 | 0.00 |
| 4.42 | 2.00 | 0.00 | 7.79 | 0.02 | 0.00 | 4.44 | 2.00 | 0.00 | 7.78 | 0.02 | 0.00 |
| 4.46 | 2.00 | 0.00 | 7.77 | 0.02 | 0.00 | 4.48 | 2.00 | 0.00 | 7.76 | 0.02 | 0.00 |
| 4.50 | 2.00 | 0.00 | 7.75 | 0.02 | 0.00 | 4.52 | 2.00 | 0.00 | 7.74 | 0.02 | 0.00 |
| 4.54 | 2.00 | 0.00 | 7.73 | 0.02 | 0.00 | 4.56 | 2.00 | 0.00 | 7.72 | 0.02 | 0.00 |
| 4.58 | 2.00 | 0.00 | 7.71 | 0.02 | 0.00 | 4.60 | 2.00 | 0.00 | 7.70 | 0.02 | 0.00 |
| 4.62 | 2.00 | 0.00 | 7.69 | 0.02 | 0.00 | 4.64 | 2.00 | 0.00 | 7.68 | 0.02 | 0.00 |
| 4.66 | 2.00 | 0.00 | 7.67 | 0.02 | 0.00 | 4.68 | 2.00 | 0.00 | 7.66 | 0.02 | 0.00 |
| 4.70 | 2.00 | 0.00 | 7.65 | 0.02 | 0.00 | 4.72 | 2.00 | 0.00 | 7.64 | 0.02 | 0.00 |
| 4.74 | 2.00 | 0.00 | 7.63 | 0.02 | 0.00 | 4.76 | 2.00 | 0.00 | 7.62 | 0.02 | 0.00 |
| 4.78 | 2.00 | 0.00 | 7.61 | 0.02 | 0.00 | 4.80 | 2.00 | 0.00 | 7.60 | 0.02 | 0.00 |
| 4.82 | 2.00 | 0.00 | 7.59 | 0.02 | 0.00 | 4.84 | 2.00 | 0.00 | 7.58 | 0.02 | 0.00 |
| 4.86 | 2.00 | 0.00 | 7.57 | 0.02 | 0.00 | 4.88 | 2.00 | 0.00 | 7.56 | 0.02 | 0.00 |
| 4.90 | 2.00 | 0.00 | 7.55 | 0.02 | 0.00 | 4.92 | 2.00 | 0.00 | 7.54 | 0.02 | 0.00 |
| 4.94 | 2.00 | 0.00 | 7.53 | 0.02 | 0.00 | 4.96 | 2.00 | 0.00 | 7.52 | 0.02 | 0.00 |
| 4.98 | 2.00 | 0.00 | 7.51 | 0.02 | 0.00 | 5.00 | 2.00 | 0.00 | 7.50 | 0.02 | 0.00 |
| 5.02 | 2.00 | 0.00 | 7.49 | 0.02 | 0.00 | 5.04 | 2.00 | 0.00 | 7.48 | 0.02 | 0.00 |
| 5.06 | 2.00 | 0.00 | 7.47 | 0.02 | 0.00 | 5.08 | 2.00 | 0.00 | 7.46 | 0.02 | 0.00 |
| 5.10 | 2.00 | 0.00 | 7.45 | 0.02 | 0.00 | 5.12 | 2.00 | 0.00 | 7.44 | 0.02 | 0.00 |
| 5.14 | 2.00 | 0.00 | 7.43 | 0.02 | 0.00 | 5.16 | 2.00 | 0.00 | 7.42 | 0.02 | 0.00 |
| 5.18 | 2.00 | 0.00 | 7.41 | 0.02 | 0.00 | 5.20 | 2.00 | 0.00 | 7.40 | 0.02 | 0.00 |
| 5.22 | 2.00 | 0.00 | 7.39 | 0.02 | 0.00 | 5.24 | 2.00 | 0.00 | 7.38 | 0.02 | 0.00 |
| 5.26 | 2.00 | 0.00 | 7.37 | 0.02 | 0.00 | 5.28 | 2.00 | 0.00 | 7.36 | 0.02 | 0.00 |
| 5.30 | 2.00 | 0.00 | 7.35 | 0.02 | 0.00 | 5.32 | 2.00 | 0.00 | 7.34 | 0.02 | 0.00 |
| 5.34 | 2.00 | 0.00 | 7.33 | 0.02 | 0.00 | 5.36 | 2.00 | 0.00 | 7.32 | 0.02 | 0.00 |
| 5.38 | 2.00 | 0.00 | 7.31 | 0.02 | 0.00 | 5.40 | 2.00 | 0.00 | 7.30 | 0.02 | 0.00 |
| 5.42 | 2.00 | 0.00 | 7.29 | 0.02 | 0.00 | 5.44 | 2.00 | 0.00 | 7.28 | 0.02 | 0.00 |
| 5.46 | 2.00 | 0.00 | 7.27 | 0.02 | 0.00 | 5.48 | 2.00 | 0.00 | 7.26 | 0.02 | 0.00 |
| 5.50 | 2.00 | 0.00 | 7.25 | 0.02 | 0.00 | 5.52 | 2.00 | 0.00 | 7.24 | 0.02 | 0.00 |
| 5.54 | 2.00 | 0.00 | 7.23 | 0.02 | 0.00 | 5.56 | 2.00 | 0.00 | 7.22 | 0.02 | 0.00 |
| 5.58 | 2.00 | 0.00 | 7.21 | 0.02 | 0.00 | 5.60 | 2.00 | 0.00 | 7.20 | 0.02 | 0.00 |
| 5.62 | 2.00 | 0.00 | 7.19 | 0.02 | 0.00 | 5.64 | 2.00 | 0.00 | 7.18 | 0.02 | 0.00 |
| 5.66 | 2.00 | 0.00 | 7.17 | 0.02 | 0.00 | 5.68 | 2.00 | 0.00 | 7.16 | 0.02 | 0.00 |
| 5.70 | 2.00 | 0.00 | 7.15 | 0.02 | 0.00 | 5.72 | 2.00 | 0.00 | 7.14 | 0.02 | 0.00 |
| 5.74 | 2.00 | 0.00 | 7.13 | 0.02 | 0.00 | 5.76 | 2.00 | 0.00 | 7.12 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 5.78 | 2.00 | 0.00 | 7.11 | 0.02 | 0.00 | 5.80 | 2.00 | 0.00 | 7.10 | 0.02 | 0.00 |
| 5.82 | 2.00 | 0.00 | 7.09 | 0.02 | 0.00 | 5.84 | 2.00 | 0.00 | 7.08 | 0.02 | 0.00 |
| 5.86 | 2.00 | 0.00 | 7.07 | 0.02 | 0.00 | 5.88 | 2.00 | 0.00 | 7.06 | 0.02 | 0.00 |
| 5.90 | 2.00 | 0.00 | 7.05 | 0.02 | 0.00 | 5.92 | 2.00 | 0.00 | 7.04 | 0.02 | 0.00 |
| 5.94 | 2.00 | 0.00 | 7.03 | 0.02 | 0.00 | 5.96 | 2.00 | 0.00 | 7.02 | 0.02 | 0.00 |
| 5.98 | 2.00 | 0.00 | 7.01 | 0.02 | 0.00 | 6.00 | 2.00 | 0.00 | 7.00 | 0.02 | 0.00 |
| 6.02 | 2.00 | 0.00 | 6.99 | 0.02 | 0.00 | 6.04 | 2.00 | 0.00 | 6.98 | 0.02 | 0.00 |
| 6.06 | 2.00 | 0.00 | 6.97 | 0.02 | 0.00 | 6.08 | 2.00 | 0.00 | 6.96 | 0.02 | 0.00 |
| 6.10 | 2.00 | 0.00 | 6.95 | 0.02 | 0.00 | 6.12 | 2.00 | 0.00 | 6.94 | 0.02 | 0.00 |
| 6.14 | 2.00 | 0.00 | 6.93 | 0.02 | 0.00 | 6.16 | 2.00 | 0.00 | 6.92 | 0.02 | 0.00 |
| 6.18 | 2.00 | 0.00 | 6.91 | 0.02 | 0.00 | 6.20 | 2.00 | 0.00 | 6.90 | 0.02 | 0.00 |
| 6.22 | 2.00 | 0.00 | 6.89 | 0.02 | 0.00 | 6.24 | 2.00 | 0.00 | 6.88 | 0.02 | 0.00 |
| 6.26 | 2.00 | 0.00 | 6.87 | 0.02 | 0.00 | 6.28 | 2.00 | 0.00 | 6.86 | 0.02 | 0.00 |
| 6.30 | 2.00 | 0.00 | 6.85 | 0.02 | 0.00 | 6.32 | 2.00 | 0.00 | 6.84 | 0.02 | 0.00 |
| 6.34 | 2.00 | 0.00 | 6.83 | 0.02 | 0.00 | 6.36 | 2.00 | 0.00 | 6.82 | 0.02 | 0.00 |
| 6.38 | 2.00 | 0.00 | 6.81 | 0.02 | 0.00 | 6.40 | 2.00 | 0.00 | 6.80 | 0.02 | 0.00 |
| 6.42 | 2.00 | 0.00 | 6.79 | 0.02 | 0.00 | 6.44 | 2.00 | 0.00 | 6.78 | 0.02 | 0.00 |
| 6.46 | 2.00 | 0.00 | 6.77 | 0.02 | 0.00 | 6.48 | 2.00 | 0.00 | 6.76 | 0.02 | 0.00 |
| 6.50 | 2.00 | 0.00 | 6.75 | 0.02 | 0.00 | 6.52 | 2.00 | 0.00 | 6.74 | 0.02 | 0.00 |
| 6.54 | 2.00 | 0.00 | 6.73 | 0.02 | 0.00 | 6.56 | 2.00 | 0.00 | 6.72 | 0.02 | 0.00 |
| 6.58 | 2.00 | 0.00 | 6.71 | 0.02 | 0.00 | 6.60 | 2.00 | 0.00 | 6.70 | 0.02 | 0.00 |
| 6.62 | 2.00 | 0.00 | 6.69 | 0.02 | 0.00 | 6.64 | 2.00 | 0.00 | 6.68 | 0.02 | 0.00 |
| 6.66 | 2.00 | 0.00 | 6.67 | 0.02 | 0.00 | 6.68 | 2.00 | 0.00 | 6.66 | 0.02 | 0.00 |
| 6.70 | 2.00 | 0.00 | 6.65 | 0.02 | 0.00 | 6.72 | 2.00 | 0.00 | 6.64 | 0.02 | 0.00 |
| 6.74 | 2.00 | 0.00 | 6.63 | 0.02 | 0.00 | 6.76 | 2.00 | 0.00 | 6.62 | 0.02 | 0.00 |
| 6.78 | 2.00 | 0.00 | 6.61 | 0.02 | 0.00 | 6.80 | 2.00 | 0.00 | 6.60 | 0.02 | 0.00 |
| 6.82 | 2.00 | 0.00 | 6.59 | 0.02 | 0.00 | 6.84 | 2.00 | 0.00 | 6.58 | 0.02 | 0.00 |
| 6.86 | 2.00 | 0.00 | 6.57 | 0.02 | 0.00 | 6.88 | 2.00 | 0.00 | 6.56 | 0.02 | 0.00 |
| 6.90 | 2.00 | 0.00 | 6.55 | 0.02 | 0.00 | 6.92 | 2.00 | 0.00 | 6.54 | 0.02 | 0.00 |
| 6.94 | 2.00 | 0.00 | 6.53 | 0.02 | 0.00 | 6.96 | 2.00 | 0.00 | 6.52 | 0.02 | 0.00 |
| 6.98 | 2.00 | 0.00 | 6.51 | 0.02 | 0.00 | 7.00 | 2.00 | 0.00 | 6.50 | 0.02 | 0.00 |
| 7.02 | 2.00 | 0.00 | 6.49 | 0.02 | 0.00 | 7.04 | 2.00 | 0.00 | 6.48 | 0.02 | 0.00 |
| 7.06 | 2.00 | 0.00 | 6.47 | 0.02 | 0.00 | 7.08 | 2.00 | 0.00 | 6.46 | 0.02 | 0.00 |
| 7.10 | 2.00 | 0.00 | 6.45 | 0.02 | 0.00 | 7.12 | 2.00 | 0.00 | 6.44 | 0.02 | 0.00 |
| 7.14 | 2.00 | 0.00 | 6.43 | 0.02 | 0.00 | 7.16 | 2.00 | 0.00 | 6.42 | 0.02 | 0.00 |
| 7.18 | 2.00 | 0.00 | 6.41 | 0.02 | 0.00 | 7.20 | 2.00 | 0.00 | 6.40 | 0.02 | 0.00 |
| 7.22 | 2.00 | 0.00 | 6.39 | 0.02 | 0.00 | 7.24 | 2.00 | 0.00 | 6.38 | 0.02 | 0.00 |
| 7.26 | 2.00 | 0.00 | 6.37 | 0.02 | 0.00 | 7.28 | 2.00 | 0.00 | 6.36 | 0.02 | 0.00 |
| 7.30 | 2.00 | 0.00 | 6.35 | 0.02 | 0.00 | 7.32 | 2.00 | 0.00 | 6.34 | 0.02 | 0.00 |
| 7.34 | 2.00 | 0.00 | 6.33 | 0.02 | 0.00 | 7.36 | 2.00 | 0.00 | 6.32 | 0.02 | 0.00 |
| 7.38 | 2.00 | 0.00 | 6.31 | 0.02 | 0.00 | 7.40 | 2.00 | 0.00 | 6.30 | 0.02 | 0.00 |
| 7.42 | 2.00 | 0.00 | 6.29 | 0.02 | 0.00 | 7.44 | 2.00 | 0.00 | 6.28 | 0.02 | 0.00 |
| 7.46 | 2.00 | 0.00 | 6.27 | 0.02 | 0.00 | 7.48 | 2.00 | 0.00 | 6.26 | 0.02 | 0.00 |
| 7.50 | 2.00 | 0.00 | 6.25 | 0.02 | 0.00 | 7.52 | 2.00 | 0.00 | 6.24 | 0.02 | 0.00 |
| 7.54 | 2.00 | 0.00 | 6.23 | 0.02 | 0.00 | 7.56 | 2.00 | 0.00 | 6.22 | 0.02 | 0.00 |
| 7.58 | 2.00 | 0.00 | 6.21 | 0.02 | 0.00 | 7.60 | 2.00 | 0.00 | 6.20 | 0.02 | 0.00 |
| 7.62 | 2.00 | 0.00 | 6.19 | 0.02 | 0.00 | 7.64 | 2.00 | 0.00 | 6.18 | 0.02 | 0.00 |
| 7.66 | 2.00 | 0.00 | 6.17 | 0.02 | 0.00 | 7.68 | 2.00 | 0.00 | 6.16 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 7.70 | 2.00 | 0.00 | 6.15 | 0.02 | 0.00 | 7.72 | 2.00 | 0.00 | 6.14 | 0.02 | 0.00 |
| 7.74 | 2.00 | 0.00 | 6.13 | 0.02 | 0.00 | 7.76 | 2.00 | 0.00 | 6.12 | 0.02 | 0.00 |
| 7.78 | 2.00 | 0.00 | 6.11 | 0.02 | 0.00 | 7.80 | 2.00 | 0.00 | 6.10 | 0.02 | 0.00 |
| 7.82 | 2.00 | 0.00 | 6.09 | 0.02 | 0.00 | 7.84 | 2.00 | 0.00 | 6.08 | 0.02 | 0.00 |
| 7.86 | 2.00 | 0.00 | 6.07 | 0.02 | 0.00 | 7.88 | 2.00 | 0.00 | 6.06 | 0.02 | 0.00 |
| 7.90 | 2.00 | 0.00 | 6.05 | 0.02 | 0.00 | 7.92 | 2.00 | 0.00 | 6.04 | 0.02 | 0.00 |
| 7.94 | 2.00 | 0.00 | 6.03 | 0.02 | 0.00 | 7.96 | 2.00 | 0.00 | 6.02 | 0.02 | 0.00 |
| 7.98 | 2.00 | 0.00 | 6.01 | 0.02 | 0.00 | 8.00 | 2.00 | 0.00 | 6.00 | 0.02 | 0.00 |
| 8.02 | 2.00 | 0.00 | 5.99 | 0.02 | 0.00 | 8.04 | 2.00 | 0.00 | 5.98 | 0.02 | 0.00 |
| 8.06 | 2.00 | 0.00 | 5.97 | 0.02 | 0.00 | 8.08 | 2.00 | 0.00 | 5.96 | 0.02 | 0.00 |
| 8.10 | 2.00 | 0.00 | 5.95 | 0.02 | 0.00 | 8.12 | 2.00 | 0.00 | 5.94 | 0.02 | 0.00 |
| 8.14 | 2.00 | 0.00 | 5.93 | 0.02 | 0.00 | 8.16 | 2.00 | 0.00 | 5.92 | 0.02 | 0.00 |
| 8.18 | 2.00 | 0.00 | 5.91 | 0.02 | 0.00 | 8.20 | 2.00 | 0.00 | 5.90 | 0.02 | 0.00 |
| 8.22 | 2.00 | 0.00 | 5.89 | 0.02 | 0.00 | 8.24 | 2.00 | 0.00 | 5.88 | 0.02 | 0.00 |
| 8.26 | 2.00 | 0.00 | 5.87 | 0.02 | 0.00 | 8.28 | 2.00 | 0.00 | 5.86 | 0.02 | 0.00 |
| 8.30 | 2.00 | 0.00 | 5.85 | 0.02 | 0.00 | 8.32 | 2.00 | 0.00 | 5.84 | 0.02 | 0.00 |
| 8.34 | 2.00 | 0.00 | 5.83 | 0.02 | 0.00 | 8.36 | 2.00 | 0.00 | 5.82 | 0.02 | 0.00 |
| 8.38 | 2.00 | 0.00 | 5.81 | 0.02 | 0.00 | 8.40 | 2.00 | 0.00 | 5.80 | 0.02 | 0.00 |
| 8.42 | 2.00 | 0.00 | 5.79 | 0.02 | 0.00 | 8.44 | 2.00 | 0.00 | 5.78 | 0.02 | 0.00 |
| 8.46 | 2.00 | 0.00 | 5.77 | 0.02 | 0.00 | 8.48 | 2.00 | 0.00 | 5.76 | 0.02 | 0.00 |
| 8.50 | 2.00 | 0.00 | 5.75 | 0.02 | 0.00 | 8.52 | 2.00 | 0.00 | 5.74 | 0.02 | 0.00 |
| 8.54 | 2.00 | 0.00 | 5.73 | 0.02 | 0.00 | 8.56 | 2.00 | 0.00 | 5.72 | 0.02 | 0.00 |
| 8.58 | 2.00 | 0.00 | 5.71 | 0.02 | 0.00 | 8.60 | 2.00 | 0.00 | 5.70 | 0.02 | 0.00 |
| 8.62 | 2.00 | 0.00 | 5.69 | 0.02 | 0.00 | 8.64 | 2.00 | 0.00 | 5.68 | 0.02 | 0.00 |
| 8.66 | 2.00 | 0.00 | 5.67 | 0.02 | 0.00 | 8.68 | 2.00 | 0.00 | 5.66 | 0.02 | 0.00 |
| 8.70 | 2.00 | 0.00 | 5.65 | 0.02 | 0.00 | 8.72 | 2.00 | 0.00 | 5.64 | 0.02 | 0.00 |
| 8.74 | 2.00 | 0.00 | 5.63 | 0.02 | 0.00 | 8.76 | 2.00 | 0.00 | 5.62 | 0.02 | 0.00 |
| 8.78 | 2.00 | 0.00 | 5.61 | 0.02 | 0.00 | 8.80 | 2.00 | 0.00 | 5.60 | 0.02 | 0.00 |
| 8.82 | 2.00 | 0.00 | 5.59 | 0.02 | 0.00 | 8.84 | 2.00 | 0.00 | 5.58 | 0.02 | 0.00 |
| 8.86 | 2.00 | 0.00 | 5.57 | 0.02 | 0.00 | 8.88 | 2.00 | 0.00 | 5.56 | 0.02 | 0.00 |
| 8.90 | 2.00 | 0.00 | 5.55 | 0.02 | 0.00 | 8.92 | 2.00 | 0.00 | 5.54 | 0.02 | 0.00 |
| 8.94 | 2.00 | 0.00 | 5.53 | 0.02 | 0.00 | 8.96 | 2.00 | 0.00 | 5.52 | 0.02 | 0.00 |
| 8.98 | 2.00 | 0.00 | 5.51 | 0.02 | 0.00 | 9.00 | 2.00 | 0.00 | 5.50 | 0.02 | 0.00 |
| 9.02 | 2.00 | 0.00 | 5.49 | 0.02 | 0.00 | 9.04 | 2.00 | 0.00 | 5.48 | 0.02 | 0.00 |
| 9.06 | 2.00 | 0.00 | 5.47 | 0.02 | 0.00 | 9.08 | 2.00 | 0.00 | 5.46 | 0.02 | 0.00 |
| 9.10 | 2.00 | 0.00 | 5.45 | 0.02 | 0.00 | 9.12 | 2.00 | 0.00 | 5.44 | 0.02 | 0.00 |
| 9.14 | 2.00 | 0.00 | 5.43 | 0.02 | 0.00 | 9.16 | 2.00 | 0.00 | 5.42 | 0.02 | 0.00 |
| 9.18 | 2.00 | 0.00 | 5.41 | 0.02 | 0.00 | 9.20 | 2.00 | 0.00 | 5.40 | 0.02 | 0.00 |
| 9.22 | 2.00 | 0.00 | 5.39 | 0.02 | 0.00 | 9.24 | 2.00 | 0.00 | 5.38 | 0.02 | 0.00 |
| 9.26 | 2.00 | 0.00 | 5.37 | 0.02 | 0.00 | 9.28 | 2.00 | 0.00 | 5.36 | 0.02 | 0.00 |
| 9.30 | 2.00 | 0.00 | 5.35 | 0.02 | 0.00 | 9.32 | 2.00 | 0.00 | 5.34 | 0.02 | 0.00 |
| 9.34 | 2.00 | 0.00 | 5.33 | 0.02 | 0.00 | 9.36 | 2.00 | 0.00 | 5.32 | 0.02 | 0.00 |
| 9.38 | 2.00 | 0.00 | 5.31 | 0.02 | 0.00 | 9.40 | 2.00 | 0.00 | 5.30 | 0.02 | 0.00 |
| 9.42 | 2.00 | 0.00 | 5.29 | 0.02 | 0.00 | 9.44 | 2.00 | 0.00 | 5.28 | 0.02 | 0.00 |
| 9.46 | 2.00 | 0.00 | 5.27 | 0.02 | 0.00 | 9.48 | 2.00 | 0.00 | 5.26 | 0.02 | 0.00 |
| 9.50 | 2.00 | 0.00 | 5.25 | 0.02 | 0.00 | 9.52 | 2.00 | 0.00 | 5.24 | 0.02 | 0.00 |
| 9.54 | 2.00 | 0.00 | 5.23 | 0.02 | 0.00 | 9.56 | 2.00 | 0.00 | 5.22 | 0.02 | 0.00 |
| 9.58 | 2.00 | 0.00 | 5.21 | 0.02 | 0.00 | 9.60 | 2.00 | 0.00 | 5.20 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 9.62 | 2.00 | 0.00 | 5.19 | 0.02 | 0.00 | 9.64 | 2.00 | 0.00 | 5.18 | 0.02 | 0.00 |
| 9.66 | 2.00 | 0.00 | 5.17 | 0.02 | 0.00 | 9.68 | 2.00 | 0.00 | 5.16 | 0.02 | 0.00 |
| 9.70 | 2.00 | 0.00 | 5.15 | 0.02 | 0.00 | 9.72 | 2.00 | 0.00 | 5.14 | 0.02 | 0.00 |
| 9.74 | 2.00 | 0.00 | 5.13 | 0.02 | 0.00 | 9.76 | 2.00 | 0.00 | 5.12 | 0.02 | 0.00 |
| 9.78 | 2.00 | 0.00 | 5.11 | 0.02 | 0.00 | 9.80 | 2.00 | 0.00 | 5.10 | 0.02 | 0.00 |
| 9.82 | 2.00 | 0.00 | 5.09 | 0.02 | 0.00 | 9.84 | 2.00 | 0.00 | 5.08 | 0.02 | 0.00 |
| 9.86 | 2.00 | 0.00 | 5.07 | 0.02 | 0.00 | 9.88 | 2.00 | 0.00 | 5.06 | 0.02 | 0.00 |
| 9.90 | 2.00 | 0.00 | 5.05 | 0.02 | 0.00 | 9.92 | 2.00 | 0.00 | 5.04 | 0.02 | 0.00 |
| 9.94 | 2.00 | 0.00 | 5.03 | 0.02 | 0.00 | 9.96 | 2.00 | 0.00 | 5.02 | 0.02 | 0.00 |
| 9.98 | 2.00 | 0.00 | 5.01 | 0.02 | 0.00 | 10.00 | 2.00 | 0.00 | 5.00 | 0.02 | 0.00 |
| 10.02 | 2.00 | 0.00 | 4.99 | 0.02 | 0.00 | 10.04 | 2.00 | 0.00 | 4.98 | 0.02 | 0.00 |
| 10.06 | 2.00 | 0.00 | 4.97 | 0.02 | 0.00 | 10.08 | 2.00 | 0.00 | 4.96 | 0.02 | 0.00 |
| 10.10 | 2.00 | 0.00 | 4.95 | 0.02 | 0.00 | 10.12 | 2.00 | 0.00 | 4.94 | 0.02 | 0.00 |
| 10.14 | 2.00 | 0.00 | 4.93 | 0.02 | 0.00 | 10.16 | 2.00 | 0.00 | 4.92 | 0.02 | 0.00 |
| 10.18 | 2.00 | 0.00 | 4.91 | 0.02 | 0.00 | 10.20 | 2.00 | 0.00 | 4.90 | 0.02 | 0.00 |
| 10.22 | 2.00 | 0.00 | 4.89 | 0.02 | 0.00 | 10.24 | 2.00 | 0.00 | 4.88 | 0.02 | 0.00 |
| 10.26 | 2.00 | 0.00 | 4.87 | 0.02 | 0.00 | 10.28 | 2.00 | 0.00 | 4.86 | 0.02 | 0.00 |
| 10.30 | 2.00 | 0.00 | 4.85 | 0.02 | 0.00 | 10.32 | 2.00 | 0.00 | 4.84 | 0.02 | 0.00 |
| 10.34 | 2.00 | 0.00 | 4.83 | 0.02 | 0.00 | 10.36 | 2.00 | 0.00 | 4.82 | 0.02 | 0.00 |
| 10.38 | 2.00 | 0.00 | 4.81 | 0.02 | 0.00 | 10.40 | 1.38 | 0.00 | 4.80 | 0.02 | 0.00 |
| 10.42 | 2.00 | 0.00 | 4.79 | 0.02 | 0.00 | 10.44 | 2.00 | 0.00 | 4.78 | 0.02 | 0.00 |
| 10.46 | 2.00 | 0.00 | 4.77 | 0.02 | 0.00 | 10.48 | 2.00 | 0.00 | 4.76 | 0.02 | 0.00 |
| 10.50 | 2.00 | 0.00 | 4.75 | 0.02 | 0.00 | 10.52 | 2.00 | 0.00 | 4.74 | 0.02 | 0.00 |
| 10.54 | 2.00 | 0.00 | 4.73 | 0.02 | 0.00 | 10.56 | 2.00 | 0.00 | 4.72 | 0.02 | 0.00 |
| 10.58 | 2.00 | 0.00 | 4.71 | 0.02 | 0.00 | 10.60 | 2.00 | 0.00 | 4.70 | 0.02 | 0.00 |
| 10.62 | 2.00 | 0.00 | 4.69 | 0.02 | 0.00 | 10.64 | 2.00 | 0.00 | 4.68 | 0.02 | 0.00 |
| 10.66 | 1.33 | 0.00 | 4.67 | 0.02 | 0.00 | 10.68 | 1.33 | 0.00 | 4.66 | 0.02 | 0.00 |
| 10.70 | 1.38 | 0.00 | 4.65 | 0.02 | 0.00 | 10.72 | 1.48 | 0.00 | 4.64 | 0.02 | 0.00 |
| 10.74 | 1.56 | 0.00 | 4.63 | 0.02 | 0.00 | 10.76 | 2.00 | 0.00 | 4.62 | 0.02 | 0.00 |
| 10.78 | 2.00 | 0.00 | 4.61 | 0.02 | 0.00 | 10.80 | 2.00 | 0.00 | 4.60 | 0.02 | 0.00 |
| 10.82 | 2.00 | 0.00 | 4.59 | 0.02 | 0.00 | 10.84 | 2.00 | 0.00 | 4.58 | 0.02 | 0.00 |
| 10.86 | 2.00 | 0.00 | 4.57 | 0.02 | 0.00 | 10.88 | 2.00 | 0.00 | 4.56 | 0.02 | 0.00 |
| 10.90 | 2.00 | 0.00 | 4.55 | 0.02 | 0.00 | 10.92 | 2.00 | 0.00 | 4.54 | 0.02 | 0.00 |
| 10.94 | 2.00 | 0.00 | 4.53 | 0.02 | 0.00 | 10.96 | 2.00 | 0.00 | 4.52 | 0.02 | 0.00 |
| 10.98 | 2.00 | 0.00 | 4.51 | 0.02 | 0.00 | 11.00 | 1.52 | 0.00 | 4.50 | 0.02 | 0.00 |
| 11.02 | 1.59 | 0.00 | 4.49 | 0.02 | 0.00 | 11.04 | 1.66 | 0.00 | 4.48 | 0.02 | 0.00 |
| 11.06 | 1.77 | 0.00 | 4.47 | 0.02 | 0.00 | 11.08 | 1.91 | 0.00 | 4.46 | 0.02 | 0.00 |
| 11.10 | 2.00 | 0.00 | 4.45 | 0.02 | 0.00 | 11.12 | 2.00 | 0.00 | 4.44 | 0.02 | 0.00 |
| 11.14 | 2.00 | 0.00 | 4.43 | 0.02 | 0.00 | 11.16 | 2.00 | 0.00 | 4.42 | 0.02 | 0.00 |
| 11.18 | 2.00 | 0.00 | 4.41 | 0.02 | 0.00 | 11.20 | 2.00 | 0.00 | 4.40 | 0.02 | 0.00 |
| 11.22 | 2.00 | 0.00 | 4.39 | 0.02 | 0.00 | 11.24 | 2.00 | 0.00 | 4.38 | 0.02 | 0.00 |
| 11.26 | 2.00 | 0.00 | 4.37 | 0.02 | 0.00 | 11.28 | 2.00 | 0.00 | 4.36 | 0.02 | 0.00 |
| 11.30 | 1.90 | 0.00 | 4.35 | 0.02 | 0.00 | 11.32 | 1.76 | 0.00 | 4.34 | 0.02 | 0.00 |
| 11.34 | 1.66 | 0.00 | 4.33 | 0.02 | 0.00 | 11.36 | 1.55 | 0.00 | 4.32 | 0.02 | 0.00 |
| 11.38 | 1.50 | 0.00 | 4.31 | 0.02 | 0.00 | 11.40 | 1.52 | 0.00 | 4.30 | 0.02 | 0.00 |
| 11.42 | 1.63 | 0.00 | 4.29 | 0.02 | 0.00 | 11.44 | 1.76 | 0.00 | 4.28 | 0.02 | 0.00 |
| 11.46 | 1.60 | 0.00 | 4.27 | 0.02 | 0.00 | 11.48 | 1.88 | 0.00 | 4.26 | 0.02 | 0.00 |
| 11.50 | 1.93 | 0.00 | 4.25 | 0.02 | 0.00 | 11.52 | 1.96 | 0.00 | 4.24 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 11.54 | 1.98 | 0.00 | 4.23 | 0.02 | 0.00 | 11.56 | 1.95 | 0.00 | 4.22 | 0.02 | 0.00 |
| 11.58 | 1.91 | 0.00 | 4.21 | 0.02 | 0.00 | 11.60 | 1.85 | 0.00 | 4.20 | 0.02 | 0.00 |
| 11.62 | 1.77 | 0.00 | 4.19 | 0.02 | 0.00 | 11.64 | 1.72 | 0.00 | 4.18 | 0.02 | 0.00 |
| 11.66 | 1.74 | 0.00 | 4.17 | 0.02 | 0.00 | 11.68 | 1.83 | 0.00 | 4.16 | 0.02 | 0.00 |
| 11.70 | 1.91 | 0.00 | 4.15 | 0.02 | 0.00 | 11.72 | 1.94 | 0.00 | 4.14 | 0.02 | 0.00 |
| 11.74 | 2.00 | 0.00 | 4.13 | 0.02 | 0.00 | 11.76 | 2.00 | 0.00 | 4.12 | 0.02 | 0.00 |
| 11.78 | 2.00 | 0.00 | 4.11 | 0.02 | 0.00 | 11.80 | 2.00 | 0.00 | 4.10 | 0.02 | 0.00 |
| 11.82 | 2.00 | 0.00 | 4.09 | 0.02 | 0.00 | 11.84 | 2.00 | 0.00 | 4.08 | 0.02 | 0.00 |
| 11.86 | 2.00 | 0.00 | 4.07 | 0.02 | 0.00 | 11.88 | 2.00 | 0.00 | 4.06 | 0.02 | 0.00 |
| 11.90 | 2.00 | 0.00 | 4.05 | 0.02 | 0.00 | 11.92 | 2.00 | 0.00 | 4.04 | 0.02 | 0.00 |
| 11.94 | 2.00 | 0.00 | 4.03 | 0.02 | 0.00 | 11.96 | 2.00 | 0.00 | 4.02 | 0.02 | 0.00 |
| 11.98 | 2.00 | 0.00 | 4.01 | 0.02 | 0.00 | 12.00 | 2.00 | 0.00 | 4.00 | 0.02 | 0.00 |
| 12.02 | 2.00 | 0.00 | 3.99 | 0.02 | 0.00 | 12.04 | 2.00 | 0.00 | 3.98 | 0.02 | 0.00 |
| 12.06 | 2.00 | 0.00 | 3.97 | 0.02 | 0.00 | 12.08 | 2.00 | 0.00 | 3.96 | 0.02 | 0.00 |
| 12.10 | 2.00 | 0.00 | 3.95 | 0.02 | 0.00 | 12.12 | 1.51 | 0.00 | 3.94 | 0.02 | 0.00 |
| 12.14 | 2.00 | 0.00 | 3.93 | 0.02 | 0.00 | 12.16 | 2.00 | 0.00 | 3.92 | 0.02 | 0.00 |
| 12.18 | 2.00 | 0.00 | 3.91 | 0.02 | 0.00 | 12.20 | 2.00 | 0.00 | 3.90 | 0.02 | 0.00 |
| 12.22 | 2.00 | 0.00 | 3.89 | 0.02 | 0.00 | 12.24 | 2.00 | 0.00 | 3.88 | 0.02 | 0.00 |
| 12.26 | 2.00 | 0.00 | 3.87 | 0.02 | 0.00 | 12.28 | 2.00 | 0.00 | 3.86 | 0.02 | 0.00 |
| 12.30 | 2.00 | 0.00 | 3.85 | 0.02 | 0.00 | 12.32 | 2.00 | 0.00 | 3.84 | 0.02 | 0.00 |
| 12.34 | 2.00 | 0.00 | 3.83 | 0.02 | 0.00 | 12.36 | 2.00 | 0.00 | 3.82 | 0.02 | 0.00 |
| 12.38 | 2.00 | 0.00 | 3.81 | 0.02 | 0.00 | 12.40 | 2.00 | 0.00 | 3.80 | 0.02 | 0.00 |
| 12.42 | 2.00 | 0.00 | 3.79 | 0.02 | 0.00 | 12.44 | 2.00 | 0.00 | 3.78 | 0.02 | 0.00 |
| 12.46 | 2.00 | 0.00 | 3.77 | 0.02 | 0.00 | 12.48 | 2.00 | 0.00 | 3.76 | 0.02 | 0.00 |
| 12.50 | 2.00 | 0.00 | 3.75 | 0.02 | 0.00 | 12.52 | 2.00 | 0.00 | 3.74 | 0.02 | 0.00 |
| 12.54 | 2.00 | 0.00 | 3.73 | 0.02 | 0.00 | 12.56 | 2.00 | 0.00 | 3.72 | 0.02 | 0.00 |
| 12.58 | 2.00 | 0.00 | 3.71 | 0.02 | 0.00 | 12.60 | 2.00 | 0.00 | 3.70 | 0.02 | 0.00 |
| 12.62 | 2.00 | 0.00 | 3.69 | 0.02 | 0.00 | 12.64 | 2.00 | 0.00 | 3.68 | 0.02 | 0.00 |
| 12.66 | 2.00 | 0.00 | 3.67 | 0.02 | 0.00 | 12.68 | 2.00 | 0.00 | 3.66 | 0.02 | 0.00 |
| 12.70 | 2.00 | 0.00 | 3.65 | 0.02 | 0.00 | 12.72 | 2.00 | 0.00 | 3.64 | 0.02 | 0.00 |
| 12.74 | 2.00 | 0.00 | 3.63 | 0.02 | 0.00 | 12.76 | 2.00 | 0.00 | 3.62 | 0.02 | 0.00 |
| 12.78 | 1.58 | 0.00 | 3.61 | 0.02 | 0.00 | 12.80 | 1.62 | 0.00 | 3.60 | 0.02 | 0.00 |
| 12.82 | 2.00 | 0.00 | 3.59 | 0.02 | 0.00 | 12.84 | 2.00 | 0.00 | 3.58 | 0.02 | 0.00 |
| 12.86 | 2.00 | 0.00 | 3.57 | 0.02 | 0.00 | 12.88 | 2.00 | 0.00 | 3.56 | 0.02 | 0.00 |
| 12.90 | 2.00 | 0.00 | 3.55 | 0.02 | 0.00 | 12.92 | 2.00 | 0.00 | 3.54 | 0.02 | 0.00 |
| 12.94 | 2.00 | 0.00 | 3.53 | 0.02 | 0.00 | 12.96 | 2.00 | 0.00 | 3.52 | 0.02 | 0.00 |
| 12.98 | 1.48 | 0.00 | 3.51 | 0.02 | 0.00 | 13.00 | 1.52 | 0.00 | 3.50 | 0.02 | 0.00 |
| 13.02 | 2.00 | 0.00 | 3.49 | 0.02 | 0.00 | 13.04 | 2.00 | 0.00 | 3.48 | 0.02 | 0.00 |
| 13.06 | 2.00 | 0.00 | 3.47 | 0.02 | 0.00 | 13.08 | 2.00 | 0.00 | 3.46 | 0.02 | 0.00 |
| 13.10 | 2.00 | 0.00 | 3.45 | 0.02 | 0.00 | 13.12 | 2.00 | 0.00 | 3.44 | 0.02 | 0.00 |
| 13.14 | 2.00 | 0.00 | 3.43 | 0.02 | 0.00 | 13.16 | 2.00 | 0.00 | 3.42 | 0.02 | 0.00 |
| 13.18 | 2.00 | 0.00 | 3.41 | 0.02 | 0.00 | 13.20 | 2.00 | 0.00 | 3.40 | 0.02 | 0.00 |
| 13.22 | 2.00 | 0.00 | 3.39 | 0.02 | 0.00 | 13.24 | 2.00 | 0.00 | 3.38 | 0.02 | 0.00 |
| 13.26 | 2.00 | 0.00 | 3.37 | 0.02 | 0.00 | 13.28 | 2.00 | 0.00 | 3.36 | 0.02 | 0.00 |
| 13.30 | 2.00 | 0.00 | 3.35 | 0.02 | 0.00 | 13.32 | 2.00 | 0.00 | 3.34 | 0.02 | 0.00 |
| 13.34 | 2.00 | 0.00 | 3.33 | 0.02 | 0.00 | 13.36 | 2.00 | 0.00 | 3.32 | 0.02 | 0.00 |
| 13.38 | 2.00 | 0.00 | 3.31 | 0.02 | 0.00 | 13.40 | 2.00 | 0.00 | 3.30 | 0.02 | 0.00 |
| 13.42 | 2.00 | 0.00 | 3.29 | 0.02 | 0.00 | 13.44 | 2.00 | 0.00 | 3.28 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 13.46 | 2.00 | 0.00 | 3.27 | 0.02 | 0.00 | 13.48 | 2.00 | 0.00 | 3.26 | 0.02 | 0.00 |
| 13.50 | 2.00 | 0.00 | 3.25 | 0.02 | 0.00 | 13.52 | 2.00 | 0.00 | 3.24 | 0.02 | 0.00 |
| 13.54 | 2.00 | 0.00 | 3.23 | 0.02 | 0.00 | 13.56 | 2.00 | 0.00 | 3.22 | 0.02 | 0.00 |
| 13.58 | 2.00 | 0.00 | 3.21 | 0.02 | 0.00 | 13.60 | 2.00 | 0.00 | 3.20 | 0.02 | 0.00 |
| 13.62 | 2.00 | 0.00 | 3.19 | 0.02 | 0.00 | 13.64 | 2.00 | 0.00 | 3.18 | 0.02 | 0.00 |
| 13.66 | 2.00 | 0.00 | 3.17 | 0.02 | 0.00 | 13.68 | 2.00 | 0.00 | 3.16 | 0.02 | 0.00 |
| 13.70 | 2.00 | 0.00 | 3.15 | 0.02 | 0.00 | 13.72 | 2.00 | 0.00 | 3.14 | 0.02 | 0.00 |
| 13.74 | 2.00 | 0.00 | 3.13 | 0.02 | 0.00 | 13.76 | 2.00 | 0.00 | 3.12 | 0.02 | 0.00 |
| 13.78 | 2.00 | 0.00 | 3.11 | 0.02 | 0.00 | 13.80 | 2.00 | 0.00 | 3.10 | 0.02 | 0.00 |
| 13.82 | 1.38 | 0.00 | 3.09 | 0.02 | 0.00 | 13.84 | 1.64 | 0.00 | 3.08 | 0.02 | 0.00 |
| 13.86 | 2.00 | 0.00 | 3.07 | 0.02 | 0.00 | 13.88 | 2.00 | 0.00 | 3.06 | 0.02 | 0.00 |
| 13.90 | 2.00 | 0.00 | 3.05 | 0.02 | 0.00 | 13.92 | 2.00 | 0.00 | 3.04 | 0.02 | 0.00 |
| 13.94 | 2.00 | 0.00 | 3.03 | 0.02 | 0.00 | 13.96 | 2.00 | 0.00 | 3.02 | 0.02 | 0.00 |
| 13.98 | 2.00 | 0.00 | 3.01 | 0.02 | 0.00 | 14.00 | 2.00 | 0.00 | 3.00 | 0.02 | 0.00 |
| 14.02 | 2.00 | 0.00 | 2.99 | 0.02 | 0.00 | 14.04 | 2.00 | 0.00 | 2.98 | 0.02 | 0.00 |
| 14.06 | 2.00 | 0.00 | 2.97 | 0.02 | 0.00 | 14.08 | 2.00 | 0.00 | 2.96 | 0.02 | 0.00 |
| 14.10 | 2.00 | 0.00 | 2.95 | 0.02 | 0.00 | 14.12 | 2.00 | 0.00 | 2.94 | 0.02 | 0.00 |
| 14.14 | 2.00 | 0.00 | 2.93 | 0.02 | 0.00 | 14.16 | 2.00 | 0.00 | 2.92 | 0.02 | 0.00 |
| 14.18 | 2.00 | 0.00 | 2.91 | 0.02 | 0.00 | 14.20 | 2.00 | 0.00 | 2.90 | 0.02 | 0.00 |
| 14.22 | 2.00 | 0.00 | 2.89 | 0.02 | 0.00 | 14.24 | 2.00 | 0.00 | 2.88 | 0.02 | 0.00 |
| 14.26 | 2.00 | 0.00 | 2.87 | 0.02 | 0.00 | 14.28 | 2.00 | 0.00 | 2.86 | 0.02 | 0.00 |
| 14.30 | 2.00 | 0.00 | 2.85 | 0.02 | 0.00 | 14.32 | 2.00 | 0.00 | 2.84 | 0.02 | 0.00 |
| 14.34 | 2.00 | 0.00 | 2.83 | 0.02 | 0.00 | 14.36 | 2.00 | 0.00 | 2.82 | 0.02 | 0.00 |
| 14.38 | 2.00 | 0.00 | 2.81 | 0.02 | 0.00 | 14.40 | 2.00 | 0.00 | 2.80 | 0.02 | 0.00 |
| 14.42 | 2.00 | 0.00 | 2.79 | 0.02 | 0.00 | 14.44 | 2.00 | 0.00 | 2.78 | 0.02 | 0.00 |
| 14.46 | 2.00 | 0.00 | 2.77 | 0.02 | 0.00 | 14.48 | 2.00 | 0.00 | 2.76 | 0.02 | 0.00 |
| 14.50 | 2.00 | 0.00 | 2.75 | 0.02 | 0.00 | 14.52 | 2.00 | 0.00 | 2.74 | 0.02 | 0.00 |
| 14.54 | 1.65 | 0.00 | 2.73 | 0.02 | 0.00 | 14.56 | 1.80 | 0.00 | 2.72 | 0.02 | 0.00 |
| 14.58 | 1.97 | 0.00 | 2.71 | 0.02 | 0.00 | 14.60 | 1.98 | 0.00 | 2.70 | 0.02 | 0.00 |
| 14.62 | 1.81 | 0.00 | 2.69 | 0.02 | 0.00 | 14.64 | 1.60 | 0.00 | 2.68 | 0.02 | 0.00 |
| 14.66 | 1.51 | 0.00 | 2.67 | 0.02 | 0.00 | 14.68 | 1.65 | 0.00 | 2.66 | 0.02 | 0.00 |
| 14.70 | 1.87 | 0.00 | 2.65 | 0.02 | 0.00 | 14.72 | 2.00 | 0.00 | 2.64 | 0.02 | 0.00 |
| 14.74 | 2.00 | 0.00 | 2.63 | 0.02 | 0.00 | 14.76 | 2.00 | 0.00 | 2.62 | 0.02 | 0.00 |
| 14.78 | 2.00 | 0.00 | 2.61 | 0.02 | 0.00 | 14.80 | 2.00 | 0.00 | 2.60 | 0.02 | 0.00 |
| 14.82 | 2.00 | 0.00 | 2.59 | 0.02 | 0.00 | 14.84 | 2.00 | 0.00 | 2.58 | 0.02 | 0.00 |
| 14.86 | 2.00 | 0.00 | 2.57 | 0.02 | 0.00 | 14.88 | 2.00 | 0.00 | 2.56 | 0.02 | 0.00 |
| 14.90 | 2.00 | 0.00 | 2.55 | 0.02 | 0.00 | 14.92 | 1.92 | 0.00 | 2.54 | 0.02 | 0.00 |
| 14.94 | 1.91 | 0.00 | 2.53 | 0.02 | 0.00 | 14.96 | 1.90 | 0.00 | 2.52 | 0.02 | 0.00 |
| 14.98 | 2.00 | 0.00 | 2.51 | 0.02 | 0.00 | 15.00 | 2.00 | 0.00 | 2.50 | 0.02 | 0.00 |
| 15.02 | 2.00 | 0.00 | 2.49 | 0.02 | 0.00 | 15.04 | 2.00 | 0.00 | 2.48 | 0.02 | 0.00 |
| 15.06 | 2.00 | 0.00 | 2.47 | 0.02 | 0.00 | 15.08 | 2.00 | 0.00 | 2.46 | 0.02 | 0.00 |
| 15.10 | 2.00 | 0.00 | 2.45 | 0.02 | 0.00 | 15.12 | 2.00 | 0.00 | 2.44 | 0.02 | 0.00 |
| 15.14 | 2.00 | 0.00 | 2.43 | 0.02 | 0.00 | 15.16 | 2.00 | 0.00 | 2.42 | 0.02 | 0.00 |
| 15.18 | 2.00 | 0.00 | 2.41 | 0.02 | 0.00 | 15.20 | 2.00 | 0.00 | 2.40 | 0.02 | 0.00 |
| 15.22 | 2.00 | 0.00 | 2.39 | 0.02 | 0.00 | 15.24 | 2.00 | 0.00 | 2.38 | 0.02 | 0.00 |
| 15.26 | 2.00 | 0.00 | 2.37 | 0.02 | 0.00 | 15.28 | 2.00 | 0.00 | 2.36 | 0.02 | 0.00 |
| 15.30 | 2.00 | 0.00 | 2.35 | 0.02 | 0.00 | 15.32 | 2.00 | 0.00 | 2.34 | 0.02 | 0.00 |
| 15.34 | 2.00 | 0.00 | 2.33 | 0.02 | 0.00 | 15.36 | 2.00 | 0.00 | 2.32 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 15.38 | 2.00 | 0.00 | 2.31 | 0.02 | 0.00 | 15.40 | 2.00 | 0.00 | 2.30 | 0.02 | 0.00 |
| 15.42 | 2.00 | 0.00 | 2.29 | 0.02 | 0.00 | 15.44 | 2.00 | 0.00 | 2.28 | 0.02 | 0.00 |
| 15.46 | 2.00 | 0.00 | 2.27 | 0.02 | 0.00 | 15.48 | 2.00 | 0.00 | 2.26 | 0.02 | 0.00 |
| 15.50 | 1.98 | 0.00 | 2.25 | 0.02 | 0.00 | 15.52 | 1.97 | 0.00 | 2.24 | 0.02 | 0.00 |
| 15.54 | 1.95 | 0.00 | 2.23 | 0.02 | 0.00 | 15.56 | 1.94 | 0.00 | 2.22 | 0.02 | 0.00 |
| 15.58 | 1.94 | 0.00 | 2.21 | 0.02 | 0.00 | 15.60 | 1.95 | 0.00 | 2.20 | 0.02 | 0.00 |
| 15.62 | 1.95 | 0.00 | 2.19 | 0.02 | 0.00 | 15.64 | 1.95 | 0.00 | 2.18 | 0.02 | 0.00 |
| 15.66 | 1.95 | 0.00 | 2.17 | 0.02 | 0.00 | 15.68 | 1.97 | 0.00 | 2.16 | 0.02 | 0.00 |
| 15.70 | 2.00 | 0.00 | 2.15 | 0.02 | 0.00 | 15.72 | 2.00 | 0.00 | 2.14 | 0.02 | 0.00 |
| 15.74 | 2.00 | 0.00 | 2.13 | 0.02 | 0.00 | 15.76 | 2.00 | 0.00 | 2.12 | 0.02 | 0.00 |
| 15.78 | 2.00 | 0.00 | 2.11 | 0.02 | 0.00 | 15.80 | 2.00 | 0.00 | 2.10 | 0.02 | 0.00 |
| 15.82 | 1.98 | 0.00 | 2.09 | 0.02 | 0.00 | 15.84 | 1.95 | 0.00 | 2.08 | 0.02 | 0.00 |
| 15.86 | 1.95 | 0.00 | 2.07 | 0.02 | 0.00 | 15.88 | 2.00 | 0.00 | 2.06 | 0.02 | 0.00 |
| 15.90 | 2.00 | 0.00 | 2.05 | 0.02 | 0.00 | 15.92 | 2.00 | 0.00 | 2.04 | 0.02 | 0.00 |
| 15.94 | 2.00 | 0.00 | 2.03 | 0.02 | 0.00 | 15.96 | 2.00 | 0.00 | 2.02 | 0.02 | 0.00 |
| 15.98 | 2.00 | 0.00 | 2.01 | 0.02 | 0.00 | 16.00 | 2.00 | 0.00 | 2.00 | 0.02 | 0.00 |
| 16.02 | 2.00 | 0.00 | 1.99 | 0.02 | 0.00 | 16.04 | 2.00 | 0.00 | 1.98 | 0.02 | 0.00 |
| 16.06 | 2.00 | 0.00 | 1.97 | 0.02 | 0.00 | 16.08 | 2.00 | 0.00 | 1.96 | 0.02 | 0.00 |
| 16.10 | 2.00 | 0.00 | 1.95 | 0.02 | 0.00 | 16.12 | 2.00 | 0.00 | 1.94 | 0.02 | 0.00 |
| 16.14 | 2.00 | 0.00 | 1.93 | 0.02 | 0.00 | 16.16 | 2.00 | 0.00 | 1.92 | 0.02 | 0.00 |
| 16.18 | 2.00 | 0.00 | 1.91 | 0.02 | 0.00 | 16.20 | 2.00 | 0.00 | 1.90 | 0.02 | 0.00 |
| 16.22 | 2.00 | 0.00 | 1.89 | 0.02 | 0.00 | 16.24 | 2.00 | 0.00 | 1.88 | 0.02 | 0.00 |
| 16.26 | 2.00 | 0.00 | 1.87 | 0.02 | 0.00 | 16.28 | 2.00 | 0.00 | 1.86 | 0.02 | 0.00 |
| 16.30 | 2.00 | 0.00 | 1.85 | 0.02 | 0.00 | 16.32 | 2.00 | 0.00 | 1.84 | 0.02 | 0.00 |
| 16.34 | 2.00 | 0.00 | 1.83 | 0.02 | 0.00 | 16.36 | 2.00 | 0.00 | 1.82 | 0.02 | 0.00 |
| 16.38 | 2.00 | 0.00 | 1.81 | 0.02 | 0.00 | 16.40 | 2.00 | 0.00 | 1.80 | 0.02 | 0.00 |
| 16.42 | 2.00 | 0.00 | 1.79 | 0.02 | 0.00 | 16.44 | 2.00 | 0.00 | 1.78 | 0.02 | 0.00 |
| 16.46 | 2.00 | 0.00 | 1.77 | 0.02 | 0.00 | 16.48 | 2.00 | 0.00 | 1.76 | 0.02 | 0.00 |
| 16.50 | 2.00 | 0.00 | 1.75 | 0.02 | 0.00 | 16.52 | 2.00 | 0.00 | 1.74 | 0.02 | 0.00 |
| 16.54 | 2.00 | 0.00 | 1.73 | 0.02 | 0.00 | 16.56 | 2.00 | 0.00 | 1.72 | 0.02 | 0.00 |
| 16.58 | 2.00 | 0.00 | 1.71 | 0.02 | 0.00 | 16.60 | 2.00 | 0.00 | 1.70 | 0.02 | 0.00 |
| 16.62 | 2.00 | 0.00 | 1.69 | 0.02 | 0.00 | 16.64 | 2.00 | 0.00 | 1.68 | 0.02 | 0.00 |
| 16.66 | 2.00 | 0.00 | 1.67 | 0.02 | 0.00 | 16.68 | 2.00 | 0.00 | 1.66 | 0.02 | 0.00 |
| 16.70 | 2.00 | 0.00 | 1.65 | 0.02 | 0.00 | 16.72 | 2.00 | 0.00 | 1.64 | 0.02 | 0.00 |
| 16.74 | 2.00 | 0.00 | 1.63 | 0.02 | 0.00 | 16.76 | 2.00 | 0.00 | 1.62 | 0.02 | 0.00 |
| 16.78 | 2.00 | 0.00 | 1.61 | 0.02 | 0.00 | 16.80 | 2.00 | 0.00 | 1.60 | 0.02 | 0.00 |
| 16.82 | 2.00 | 0.00 | 1.59 | 0.02 | 0.00 | 16.84 | 2.00 | 0.00 | 1.58 | 0.02 | 0.00 |
| 16.86 | 2.00 | 0.00 | 1.57 | 0.02 | 0.00 | 16.88 | 2.00 | 0.00 | 1.56 | 0.02 | 0.00 |
| 16.90 | 2.00 | 0.00 | 1.55 | 0.02 | 0.00 | 16.92 | 2.00 | 0.00 | 1.54 | 0.02 | 0.00 |
| 16.94 | 2.00 | 0.00 | 1.53 | 0.02 | 0.00 | 16.96 | 2.00 | 0.00 | 1.52 | 0.02 | 0.00 |
| 16.98 | 2.00 | 0.00 | 1.51 | 0.02 | 0.00 | 17.00 | 2.00 | 0.00 | 1.50 | 0.02 | 0.00 |
| 17.02 | 2.00 | 0.00 | 1.49 | 0.02 | 0.00 | 17.04 | 2.00 | 0.00 | 1.48 | 0.02 | 0.00 |
| 17.06 | 2.00 | 0.00 | 1.47 | 0.02 | 0.00 | 17.08 | 2.00 | 0.00 | 1.46 | 0.02 | 0.00 |
| 17.10 | 2.00 | 0.00 | 1.45 | 0.02 | 0.00 | 17.12 | 2.00 | 0.00 | 1.44 | 0.02 | 0.00 |
| 17.14 | 2.00 | 0.00 | 1.43 | 0.02 | 0.00 | 17.16 | 2.00 | 0.00 | 1.42 | 0.02 | 0.00 |
| 17.18 | 2.00 | 0.00 | 1.41 | 0.02 | 0.00 | 17.20 | 2.00 | 0.00 | 1.40 | 0.02 | 0.00 |
| 17.22 | 2.00 | 0.00 | 1.39 | 0.02 | 0.00 | 17.24 | 2.00 | 0.00 | 1.38 | 0.02 | 0.00 |
| 17.26 | 2.00 | 0.00 | 1.37 | 0.02 | 0.00 | 17.28 | 2.00 | 0.00 | 1.36 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 17.30 | 2.00 | 0.00 | 1.35 | 0.02 | 0.00 | 17.32 | 2.00 | 0.00 | 1.34 | 0.02 | 0.00 |
| 17.34 | 2.00 | 0.00 | 1.33 | 0.02 | 0.00 | 17.36 | 2.00 | 0.00 | 1.32 | 0.02 | 0.00 |
| 17.38 | 2.00 | 0.00 | 1.31 | 0.02 | 0.00 | 17.40 | 2.00 | 0.00 | 1.30 | 0.02 | 0.00 |
| 17.42 | 2.00 | 0.00 | 1.29 | 0.02 | 0.00 | 17.44 | 2.00 | 0.00 | 1.28 | 0.02 | 0.00 |
| 17.46 | 2.00 | 0.00 | 1.27 | 0.02 | 0.00 | 17.48 | 2.00 | 0.00 | 1.26 | 0.02 | 0.00 |
| 17.50 | 2.00 | 0.00 | 1.25 | 0.02 | 0.00 | 17.52 | 2.00 | 0.00 | 1.24 | 0.02 | 0.00 |
| 17.54 | 2.00 | 0.00 | 1.23 | 0.02 | 0.00 | 17.56 | 2.00 | 0.00 | 1.22 | 0.02 | 0.00 |
| 17.58 | 2.00 | 0.00 | 1.21 | 0.02 | 0.00 | 17.60 | 2.00 | 0.00 | 1.20 | 0.02 | 0.00 |
| 17.62 | 2.00 | 0.00 | 1.19 | 0.02 | 0.00 | 17.64 | 2.00 | 0.00 | 1.18 | 0.02 | 0.00 |
| 17.66 | 2.00 | 0.00 | 1.17 | 0.02 | 0.00 | 17.68 | 2.00 | 0.00 | 1.16 | 0.02 | 0.00 |
| 17.70 | 2.00 | 0.00 | 1.15 | 0.02 | 0.00 | 17.72 | 2.00 | 0.00 | 1.14 | 0.02 | 0.00 |
| 17.74 | 1.94 | 0.00 | 1.13 | 0.02 | 0.00 | 17.76 | 1.86 | 0.00 | 1.12 | 0.02 | 0.00 |
| 17.78 | 1.86 | 0.00 | 1.11 | 0.02 | 0.00 | 17.80 | 1.95 | 0.00 | 1.10 | 0.02 | 0.00 |
| 17.82 | 2.00 | 0.00 | 1.09 | 0.02 | 0.00 | 17.84 | 2.00 | 0.00 | 1.08 | 0.02 | 0.00 |
| 17.86 | 2.00 | 0.00 | 1.07 | 0.02 | 0.00 | 17.88 | 2.00 | 0.00 | 1.06 | 0.02 | 0.00 |
| 17.90 | 2.00 | 0.00 | 1.05 | 0.02 | 0.00 | 17.92 | 2.00 | 0.00 | 1.04 | 0.02 | 0.00 |
| 17.94 | 2.00 | 0.00 | 1.03 | 0.02 | 0.00 | 17.96 | 2.00 | 0.00 | 1.02 | 0.02 | 0.00 |
| 17.98 | 2.00 | 0.00 | 1.01 | 0.02 | 0.00 | 18.00 | 2.00 | 0.00 | 1.00 | 0.02 | 0.00 |
| 18.02 | 2.00 | 0.00 | 0.99 | 0.02 | 0.00 | 18.04 | 2.00 | 0.00 | 0.98 | 0.02 | 0.00 |
| 18.06 | 2.00 | 0.00 | 0.97 | 0.02 | 0.00 | 18.08 | 2.00 | 0.00 | 0.96 | 0.02 | 0.00 |
| 18.10 | 2.00 | 0.00 | 0.95 | 0.02 | 0.00 | 18.12 | 2.00 | 0.00 | 0.94 | 0.02 | 0.00 |
| 18.14 | 2.00 | 0.00 | 0.93 | 0.02 | 0.00 | 18.16 | 2.00 | 0.00 | 0.92 | 0.02 | 0.00 |
| 18.18 | 2.00 | 0.00 | 0.91 | 0.02 | 0.00 | 18.20 | 2.00 | 0.00 | 0.90 | 0.02 | 0.00 |
| 18.22 | 2.00 | 0.00 | 0.89 | 0.02 | 0.00 | 18.24 | 2.00 | 0.00 | 0.88 | 0.02 | 0.00 |
| 18.26 | 2.00 | 0.00 | 0.87 | 0.02 | 0.00 | 18.28 | 2.00 | 0.00 | 0.86 | 0.02 | 0.00 |
| 18.30 | 2.00 | 0.00 | 0.85 | 0.02 | 0.00 | 18.32 | 2.00 | 0.00 | 0.84 | 0.02 | 0.00 |
| 18.34 | 2.00 | 0.00 | 0.83 | 0.02 | 0.00 | 18.36 | 2.00 | 0.00 | 0.82 | 0.02 | 0.00 |
| 18.38 | 2.00 | 0.00 | 0.81 | 0.02 | 0.00 | 18.40 | 2.00 | 0.00 | 0.80 | 0.02 | 0.00 |
| 18.42 | 2.00 | 0.00 | 0.79 | 0.02 | 0.00 | 18.44 | 2.00 | 0.00 | 0.78 | 0.02 | 0.00 |
| 18.46 | 2.00 | 0.00 | 0.77 | 0.02 | 0.00 | 18.48 | 2.00 | 0.00 | 0.76 | 0.02 | 0.00 |
| 18.50 | 2.00 | 0.00 | 0.75 | 0.02 | 0.00 | 18.52 | 2.00 | 0.00 | 0.74 | 0.02 | 0.00 |
| 18.54 | 2.00 | 0.00 | 0.73 | 0.02 | 0.00 | 18.56 | 2.00 | 0.00 | 0.72 | 0.02 | 0.00 |
| 18.58 | 2.00 | 0.00 | 0.71 | 0.02 | 0.00 | 18.60 | 2.00 | 0.00 | 0.70 | 0.02 | 0.00 |
| 18.62 | 2.00 | 0.00 | 0.69 | 0.02 | 0.00 | 18.64 | 2.00 | 0.00 | 0.68 | 0.02 | 0.00 |
| 18.66 | 2.00 | 0.00 | 0.67 | 0.02 | 0.00 | 18.68 | 2.00 | 0.00 | 0.66 | 0.02 | 0.00 |
| 18.70 | 2.00 | 0.00 | 0.65 | 0.02 | 0.00 | 18.72 | 2.00 | 0.00 | 0.64 | 0.02 | 0.00 |
| 18.74 | 2.00 | 0.00 | 0.63 | 0.02 | 0.00 | 18.76 | 2.00 | 0.00 | 0.62 | 0.02 | 0.00 |
| 18.78 | 2.00 | 0.00 | 0.61 | 0.02 | 0.00 | 18.80 | 2.00 | 0.00 | 0.60 | 0.02 | 0.00 |
| 18.82 | 2.00 | 0.00 | 0.59 | 0.02 | 0.00 | 18.84 | 2.00 | 0.00 | 0.58 | 0.02 | 0.00 |
| 18.86 | 2.00 | 0.00 | 0.57 | 0.02 | 0.00 | 18.88 | 2.00 | 0.00 | 0.56 | 0.02 | 0.00 |
| 18.90 | 2.00 | 0.00 | 0.55 | 0.02 | 0.00 | 18.92 | 2.00 | 0.00 | 0.54 | 0.02 | 0.00 |
| 18.94 | 2.00 | 0.00 | 0.53 | 0.02 | 0.00 | 18.96 | 2.00 | 0.00 | 0.52 | 0.02 | 0.00 |
| 18.98 | 2.00 | 0.00 | 0.51 | 0.02 | 0.00 | 19.00 | 2.00 | 0.00 | 0.50 | 0.02 | 0.00 |
| 19.02 | 2.00 | 0.00 | 0.49 | 0.02 | 0.00 | 19.04 | 2.00 | 0.00 | 0.48 | 0.02 | 0.00 |
| 19.06 | 2.00 | 0.00 | 0.47 | 0.02 | 0.00 | 19.08 | 2.00 | 0.00 | 0.46 | 0.02 | 0.00 |
| 19.10 | 2.00 | 0.00 | 0.45 | 0.02 | 0.00 | 19.12 | 2.00 | 0.00 | 0.44 | 0.02 | 0.00 |
| 19.14 | 2.00 | 0.00 | 0.43 | 0.02 | 0.00 | 19.16 | 2.00 | 0.00 | 0.42 | 0.02 | 0.00 |
| 19.18 | 2.00 | 0.00 | 0.41 | 0.02 | 0.00 | 19.20 | 2.00 | 0.00 | 0.40 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 19.22 | 2.00 | 0.00 | 0.39 | 0.02 | 0.00 | 19.24 | 2.00 | 0.00 | 0.38 | 0.02 | 0.00 |
| 19.26 | 2.00 | 0.00 | 0.37 | 0.02 | 0.00 | 19.28 | 2.00 | 0.00 | 0.36 | 0.02 | 0.00 |
| 19.30 | 2.00 | 0.00 | 0.35 | 0.02 | 0.00 | 19.32 | 2.00 | 0.00 | 0.34 | 0.02 | 0.00 |
| 19.34 | 2.00 | 0.00 | 0.33 | 0.02 | 0.00 | 19.36 | 2.00 | 0.00 | 0.32 | 0.02 | 0.00 |
| 19.38 | 2.00 | 0.00 | 0.31 | 0.02 | 0.00 | 19.40 | 2.00 | 0.00 | 0.30 | 0.02 | 0.00 |
| 19.42 | 2.00 | 0.00 | 0.29 | 0.02 | 0.00 | 19.44 | 2.00 | 0.00 | 0.28 | 0.02 | 0.00 |
| 19.46 | 2.00 | 0.00 | 0.27 | 0.02 | 0.00 | 19.48 | 2.00 | 0.00 | 0.26 | 0.02 | 0.00 |
| 19.50 | 2.00 | 0.00 | 0.25 | 0.02 | 0.00 | 19.52 | 2.00 | 0.00 | 0.24 | 0.02 | 0.00 |
| 19.54 | 2.00 | 0.00 | 0.23 | 0.02 | 0.00 | 19.56 | 2.00 | 0.00 | 0.22 | 0.02 | 0.00 |
| 19.58 | 2.00 | 0.00 | 0.21 | 0.02 | 0.00 | 19.60 | 2.00 | 0.00 | 0.20 | 0.02 | 0.00 |
| 19.62 | 2.00 | 0.00 | 0.19 | 0.02 | 0.00 | 19.64 | 2.00 | 0.00 | 0.18 | 0.02 | 0.00 |
| 19.66 | 2.00 | 0.00 | 0.17 | 0.02 | 0.00 | 19.68 | 2.00 | 0.00 | 0.16 | 0.02 | 0.00 |
| 19.70 | 2.00 | 0.00 | 0.15 | 0.02 | 0.00 | 19.72 | 2.00 | 0.00 | 0.14 | 0.02 | 0.00 |
| 19.74 | 2.00 | 0.00 | 0.13 | 0.02 | 0.00 | 19.76 | 2.00 | 0.00 | 0.12 | 0.02 | 0.00 |
| 19.78 | 2.00 | 0.00 | 0.11 | 0.02 | 0.00 | 19.80 | 2.00 | 0.00 | 0.10 | 0.02 | 0.00 |
| 19.82 | 2.00 | 0.00 | 0.09 | 0.02 | 0.00 | 19.84 | 2.00 | 0.00 | 0.08 | 0.02 | 0.00 |
| 19.86 | 2.00 | 0.00 | 0.07 | 0.02 | 0.00 | 19.88 | 2.00 | 0.00 | 0.06 | 0.02 | 0.00 |
| 19.90 | 2.00 | 0.00 | 0.05 | 0.02 | 0.00 | | | | | | |

Overall liquefaction potential: 0.00

LPI = 0.00 - Liquefaction risk very low

LPI between 0.00 and 5.00 - Liquefaction risk low

LPI between 5.00 and 15.00 - Liquefaction risk high

LPI > 15.00 - Liquefaction risk very high

Abbreviations

FS: Calculated factor of safety for test point

F_L: 1 - FSw_z: Function value of the extend of soil liquefaction according to depthd_z: Layer thickness (m)

LPI: Liquefaction potential index value for test point

LIQUEFACTION ANALYSIS REPORT

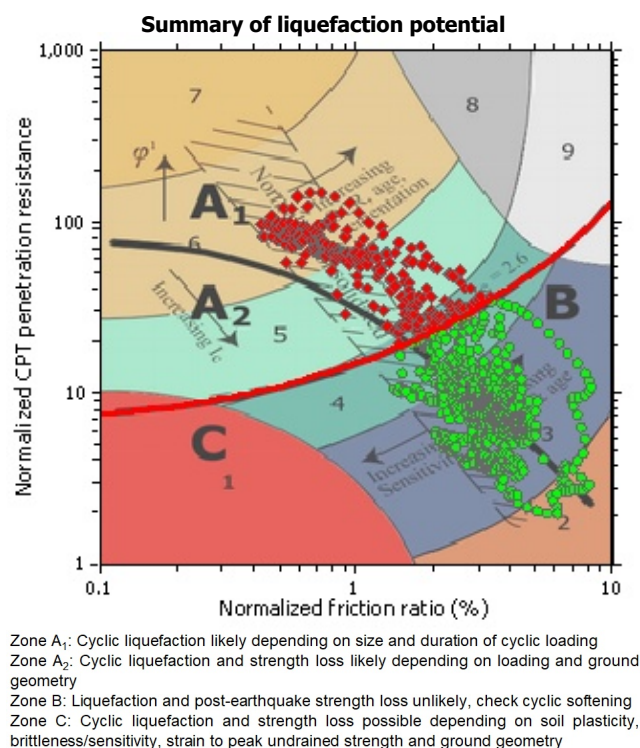
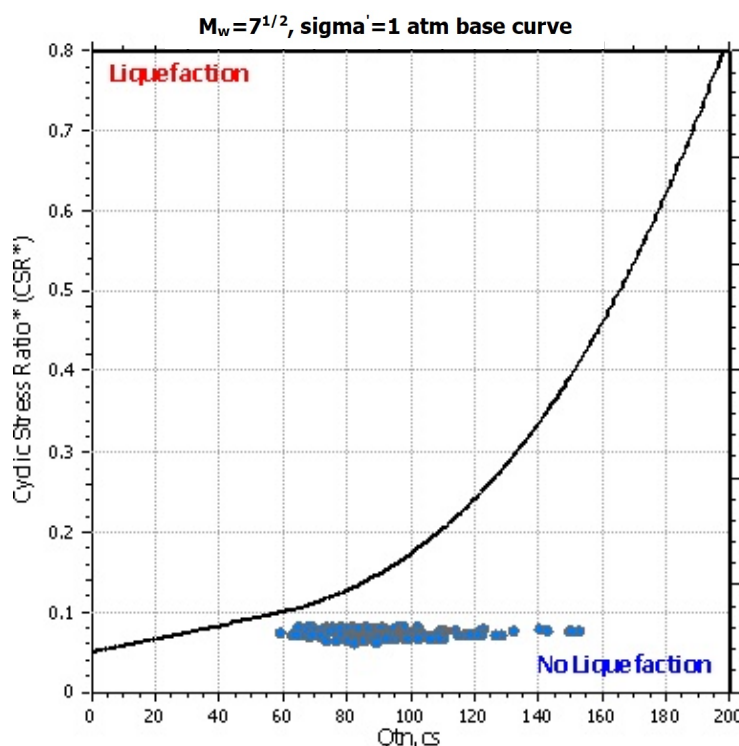
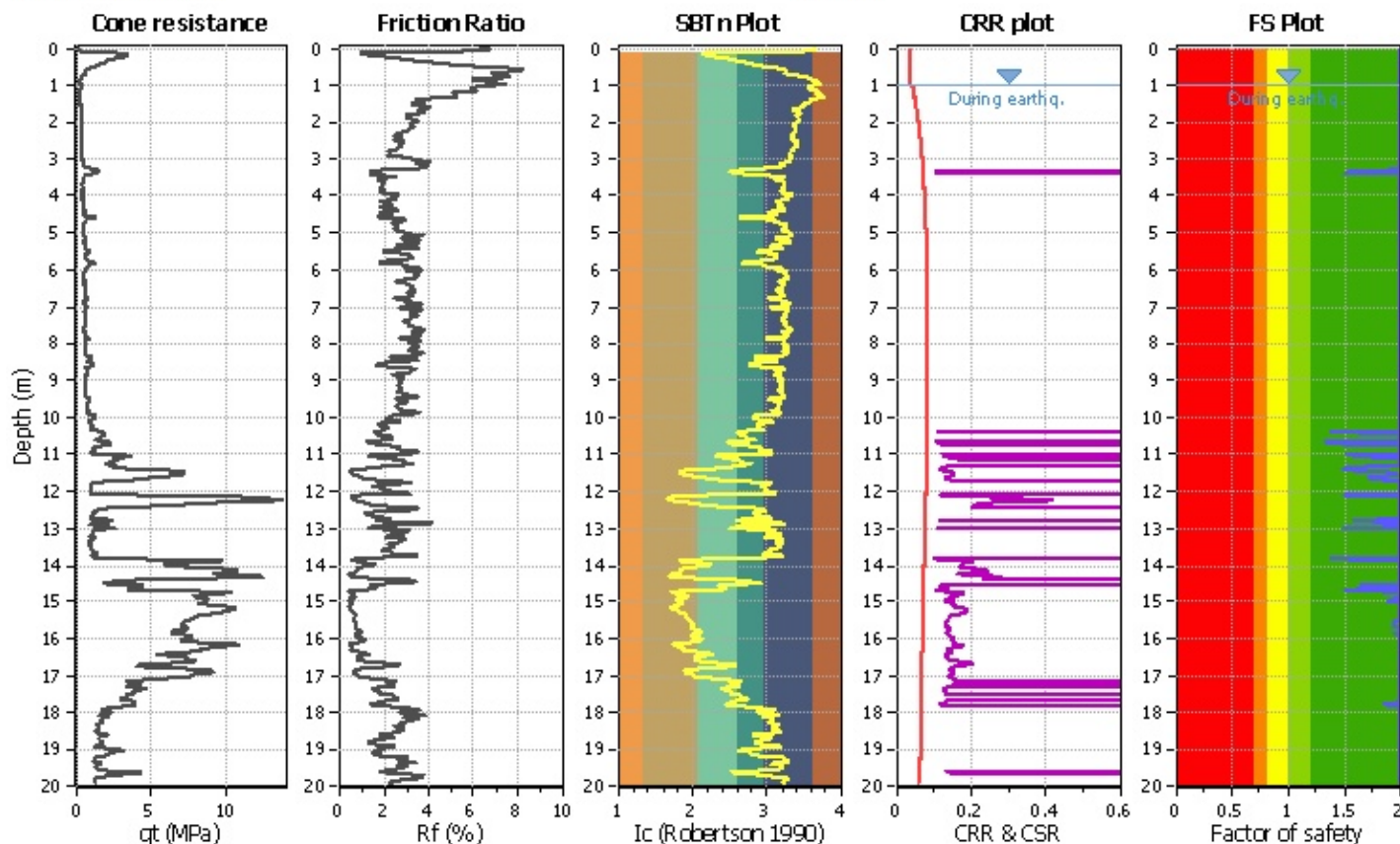
Project title :

Location :

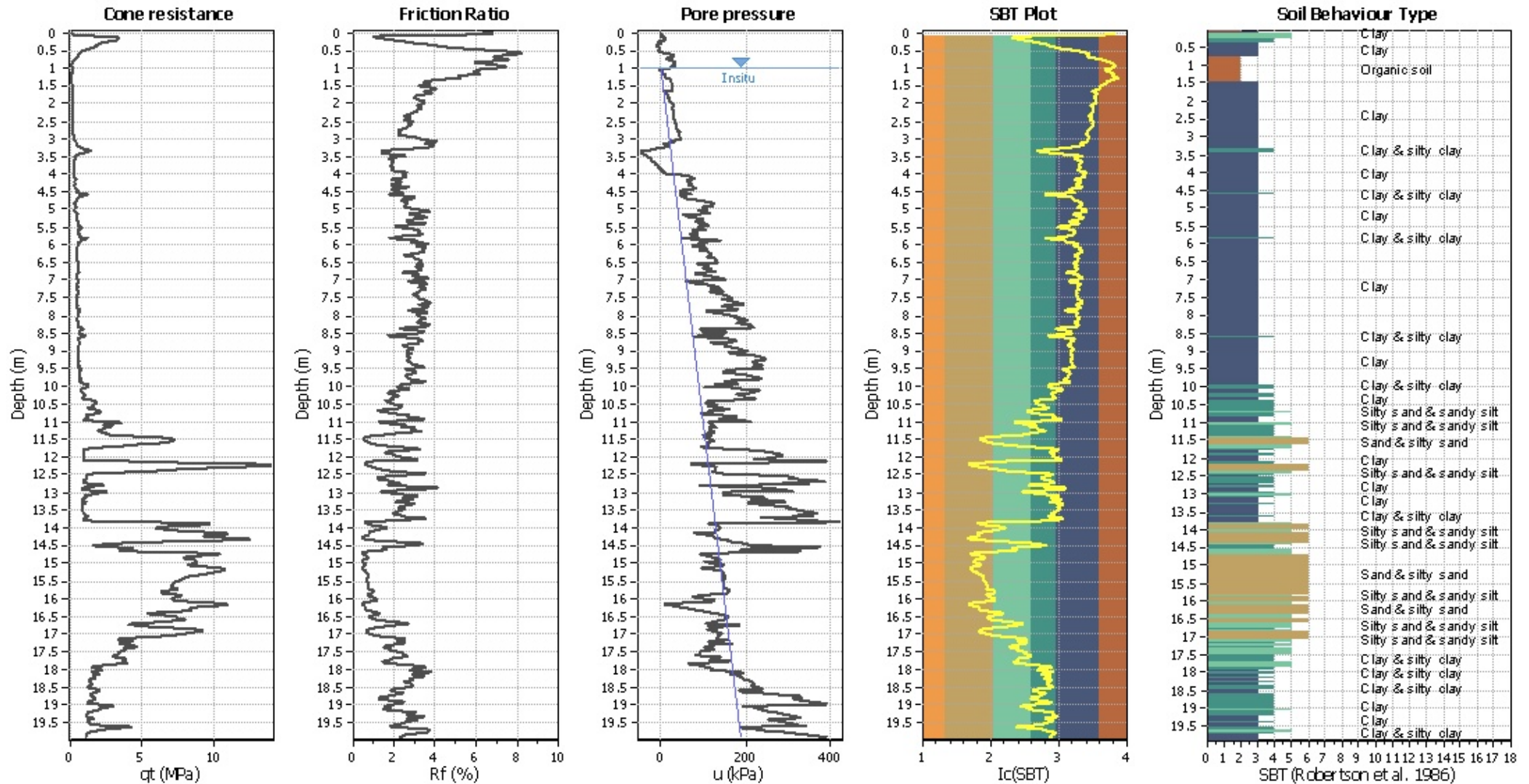
CPT file : CPTU1

Input parameters and analysis data

| | | | | | | | |
|------------------------------|-------------------|---------------------------|--------------|-------------------------|-----|----------------------|--------------|
| Analysis method: | NCEER (1998) | G.W.T. (in-situ): | 1.00 m | Use fill: | No | Clay like behavior | |
| Fines correction method: | NCEER (1998) | G.W.T. (earthq.): | 1.00 m | Fill height: | N/A | applied: | Sands only |
| Points to test: | Based on Ic value | Average results interval: | 3 | Fill weight: | N/A | Limit depth applied: | No |
| Earthquake magnitude M_w : | 5.00 | Ic cut-off value: | 2.60 | Trans. detect. applied: | No | Limit depth: | N/A |
| Peak ground acceleration: | 0.17 | Unit weight calculation: | Based on SBT | K_0 applied: | Yes | MSF method: | Method based |



CPT basic interpretation plo



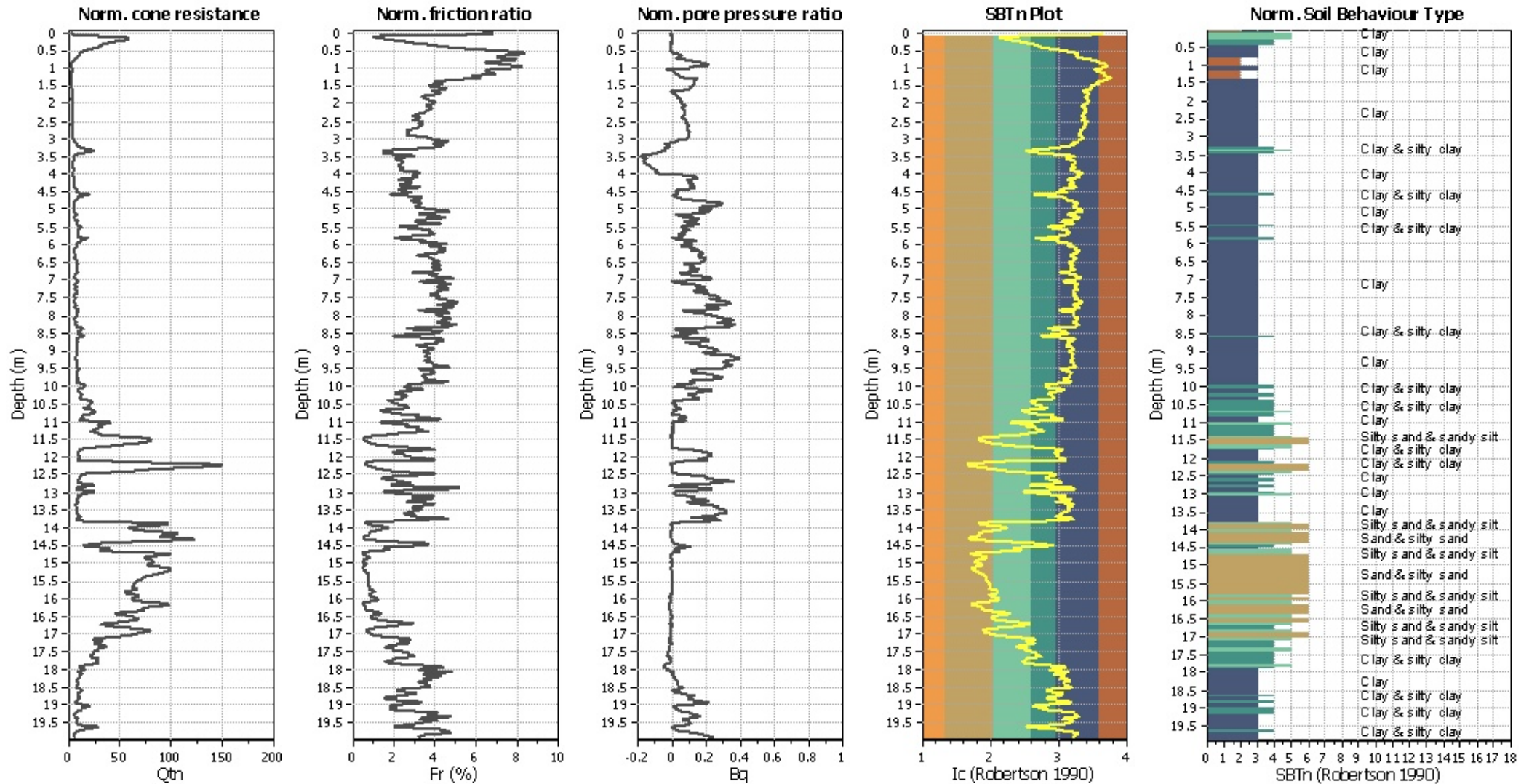
Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 5.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

SBT legend

| | | |
|---------------------------|-----------------------------|----------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty | 7. Gravely sand to sand |
| 2. Organic material | 5. Silty sand to sandy silt | 8. Very stiff sand to |
| 3. Clay to silty clay | 6. Clean sand to silty sand | 9. Very stiff fine grained |

CPT basic interpretation plots (normaliz



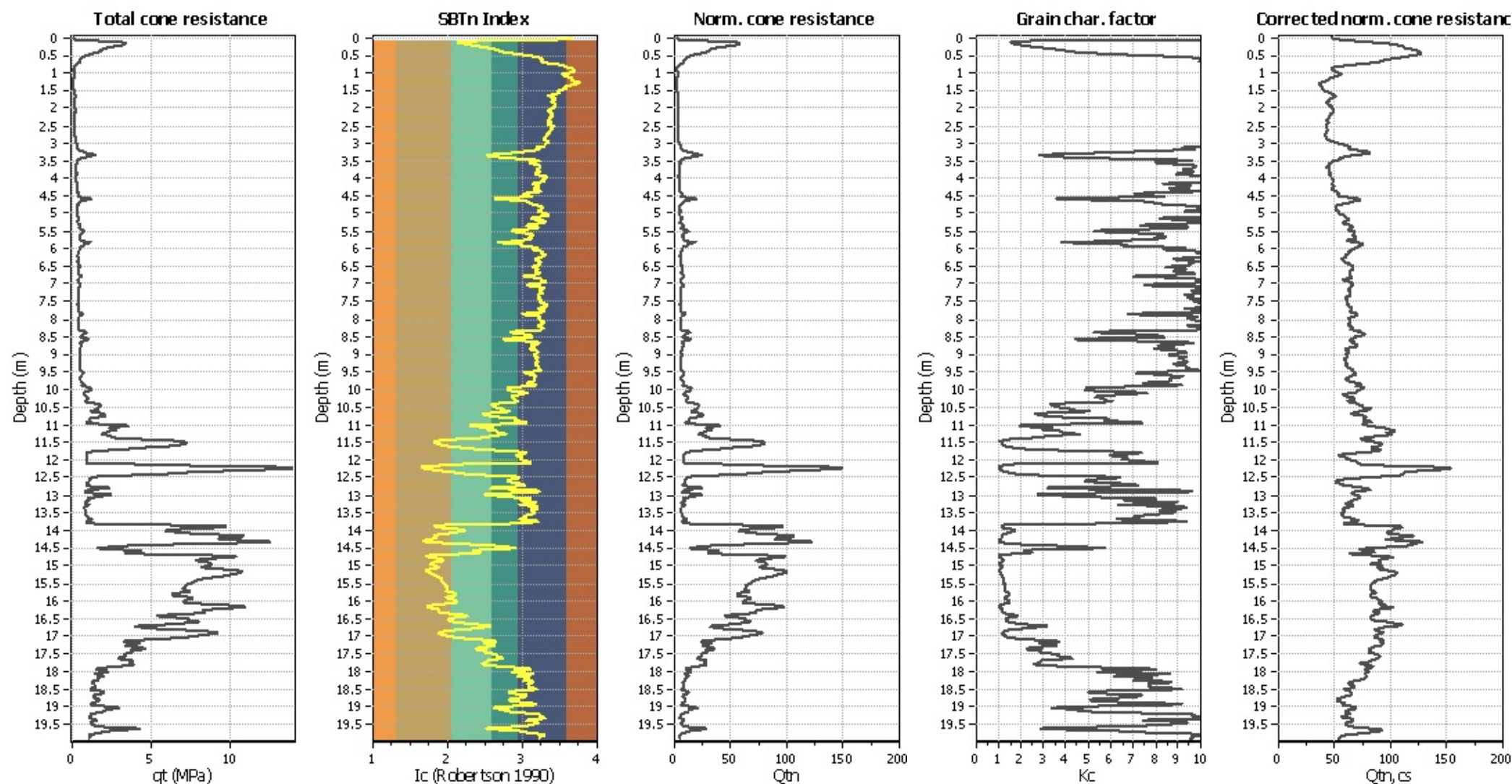
Input parameters and analysis data

| | | | | | |
|---------------------------------------|-------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K ₀ applied: | Yes |
| Earthquake magnitude M _w : | 5.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

SBTn legend

| | | |
|---------------------------|-----------------------------|----------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty | 7. Gravely sand to sand |
| 2. Organic material | 5. Silty sand to sandy silt | 8. Very stiff sand to |
| 3. Clay to silty clay | 6. Clean sand to silty sand | 9. Very stiff fine grained |

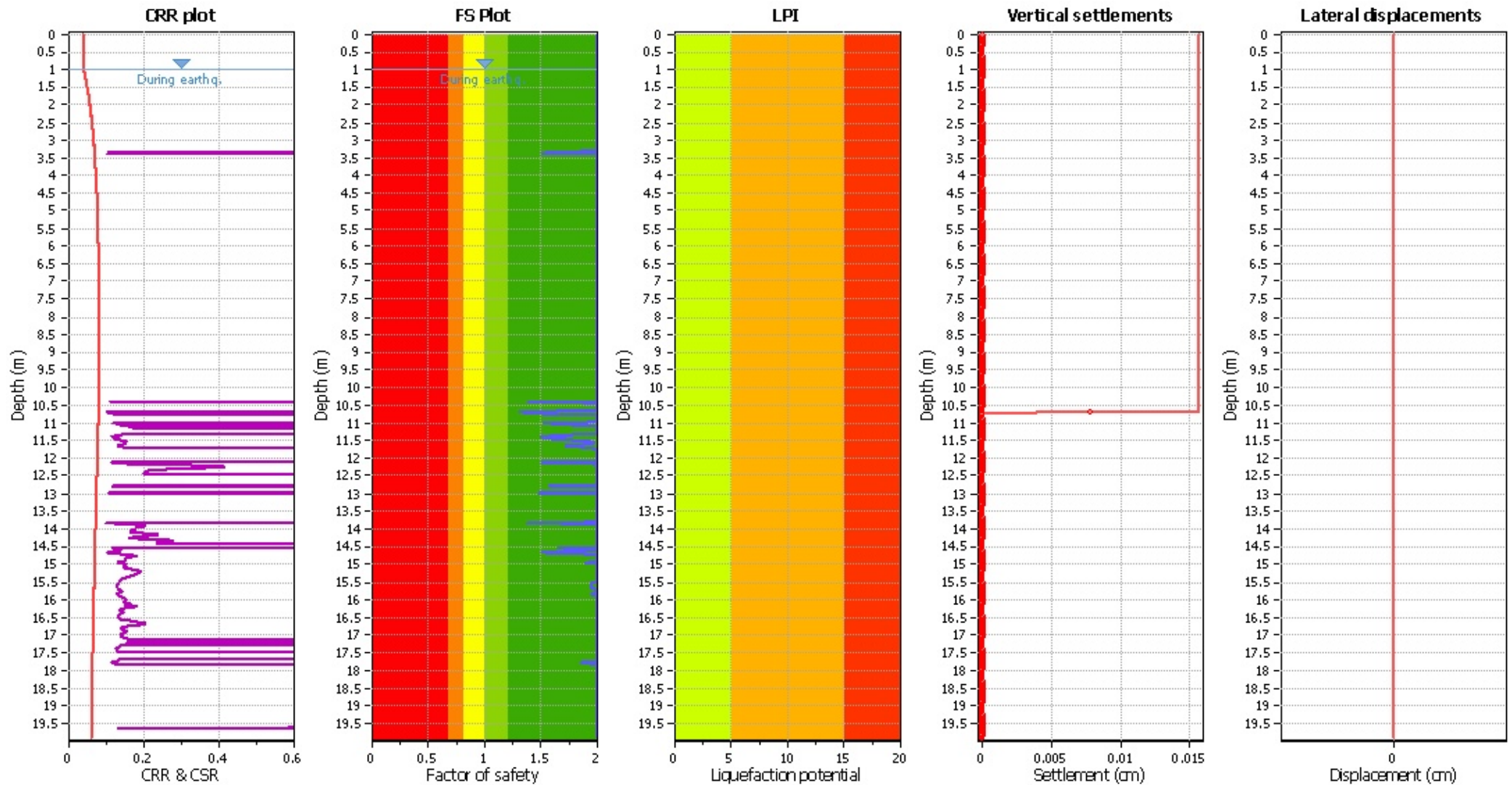
Liquefaction analysis overall plots (intermediate res)



Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_{σ} applied: | Yes |
| Earthquake magnitude M_w : | 5.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

Liquefaction analysis overall plot



Input parameters and analysis data

| | | | | | |
|--------------------------------|-------------------|---------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (earthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 5.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

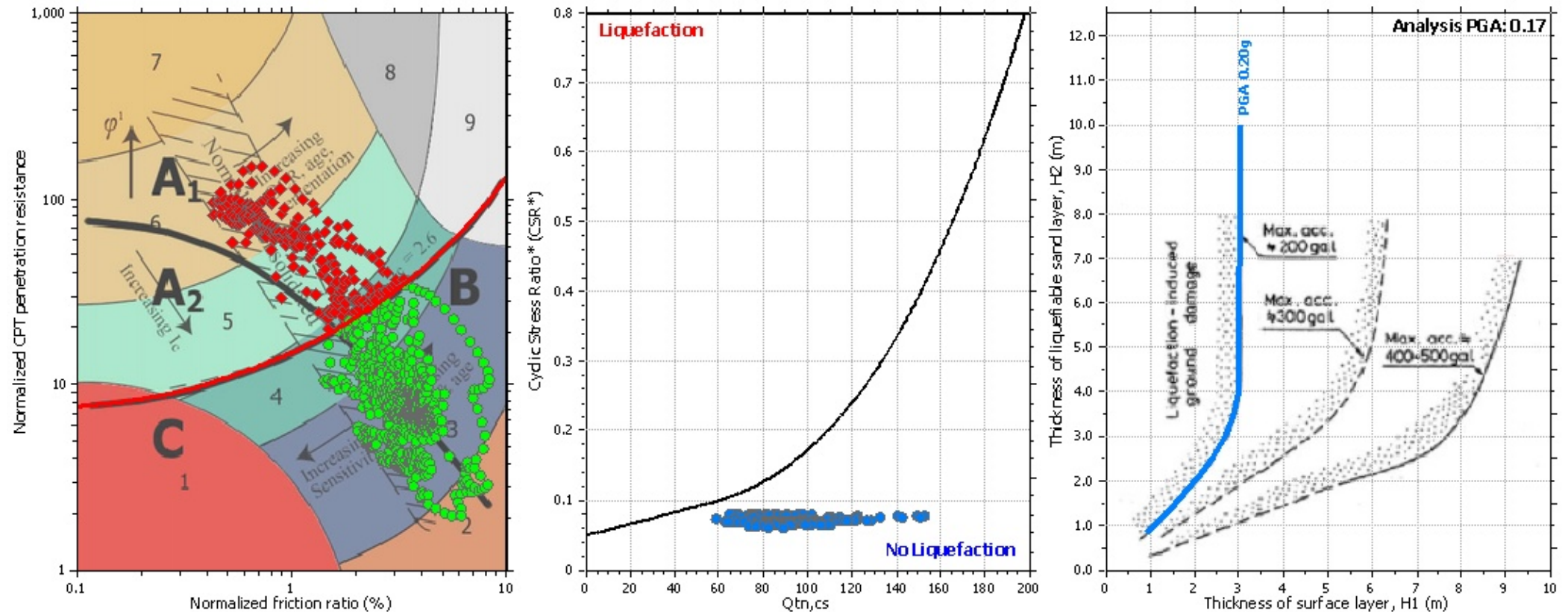
F.S. color scheme

| | |
|---|---|
| ■ | Almost certain it will liquefy |
| ■ | Very likely to liquefy |
| ■ | Liquefaction and no liq. are equally likely |
| ■ | Unlike to liquefy |
| ■ | Almost certain it will not liquefy |

LPI color scheme

| | |
|---------------------------------------|----------------|
| ■ | Very high risk |
| ■ | High risk |
| ■ | Low risk |

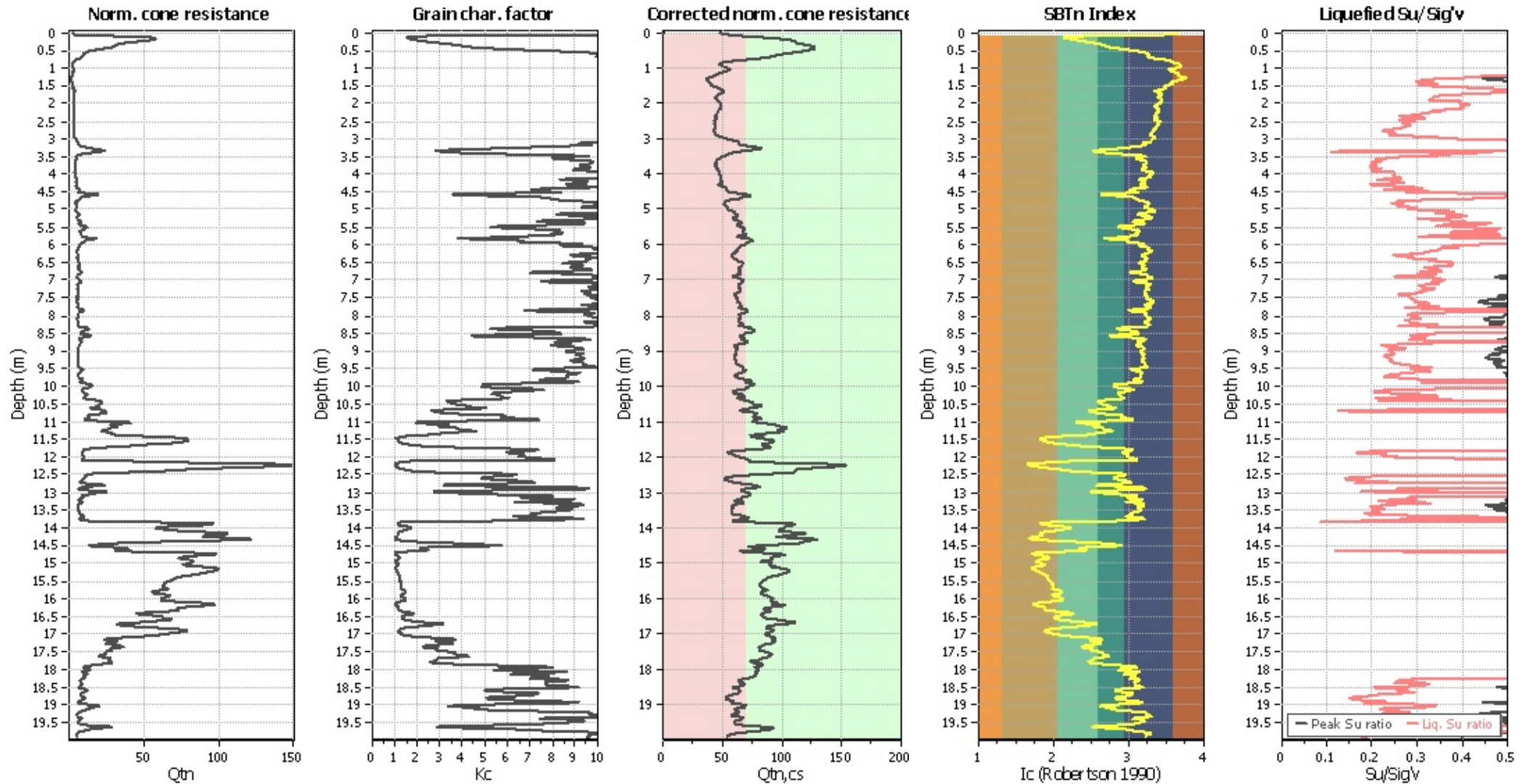
Liquefaction analysis summary plo



Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|---------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (earthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 5.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

Check for strength loss plots (Robertson (2010))



Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 5.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

| :: Liquefaction Potential Index calculation data :: | | | | | | | | | | | |
|---|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
| 0.02 | 2.00 | 0.00 | 9.99 | 0.02 | 0.00 | 0.04 | 2.00 | 0.00 | 9.98 | 0.02 | 0.00 |
| 0.06 | 2.00 | 0.00 | 9.97 | 0.02 | 0.00 | 0.08 | 2.00 | 0.00 | 9.96 | 0.02 | 0.00 |
| 0.10 | 2.00 | 0.00 | 9.95 | 0.02 | 0.00 | 0.12 | 2.00 | 0.00 | 9.94 | 0.02 | 0.00 |
| 0.14 | 2.00 | 0.00 | 9.93 | 0.02 | 0.00 | 0.16 | 2.00 | 0.00 | 9.92 | 0.02 | 0.00 |
| 0.18 | 2.00 | 0.00 | 9.91 | 0.02 | 0.00 | 0.20 | 2.00 | 0.00 | 9.90 | 0.02 | 0.00 |
| 0.22 | 2.00 | 0.00 | 9.89 | 0.02 | 0.00 | 0.24 | 2.00 | 0.00 | 9.88 | 0.02 | 0.00 |
| 0.26 | 2.00 | 0.00 | 9.87 | 0.02 | 0.00 | 0.28 | 2.00 | 0.00 | 9.86 | 0.02 | 0.00 |
| 0.30 | 2.00 | 0.00 | 9.85 | 0.02 | 0.00 | 0.32 | 2.00 | 0.00 | 9.84 | 0.02 | 0.00 |
| 0.34 | 2.00 | 0.00 | 9.83 | 0.02 | 0.00 | 0.36 | 2.00 | 0.00 | 9.82 | 0.02 | 0.00 |
| 0.38 | 2.00 | 0.00 | 9.81 | 0.02 | 0.00 | 0.40 | 2.00 | 0.00 | 9.80 | 0.02 | 0.00 |
| 0.42 | 2.00 | 0.00 | 9.79 | 0.02 | 0.00 | 0.44 | 2.00 | 0.00 | 9.78 | 0.02 | 0.00 |
| 0.46 | 2.00 | 0.00 | 9.77 | 0.02 | 0.00 | 0.48 | 2.00 | 0.00 | 9.76 | 0.02 | 0.00 |
| 0.50 | 2.00 | 0.00 | 9.75 | 0.02 | 0.00 | 0.52 | 2.00 | 0.00 | 9.74 | 0.02 | 0.00 |
| 0.54 | 2.00 | 0.00 | 9.73 | 0.02 | 0.00 | 0.56 | 2.00 | 0.00 | 9.72 | 0.02 | 0.00 |
| 0.58 | 2.00 | 0.00 | 9.71 | 0.02 | 0.00 | 0.60 | 2.00 | 0.00 | 9.70 | 0.02 | 0.00 |
| 0.62 | 2.00 | 0.00 | 9.69 | 0.02 | 0.00 | 0.64 | 2.00 | 0.00 | 9.68 | 0.02 | 0.00 |
| 0.66 | 2.00 | 0.00 | 9.67 | 0.02 | 0.00 | 0.68 | 2.00 | 0.00 | 9.66 | 0.02 | 0.00 |
| 0.70 | 2.00 | 0.00 | 9.65 | 0.02 | 0.00 | 0.72 | 2.00 | 0.00 | 9.64 | 0.02 | 0.00 |
| 0.74 | 2.00 | 0.00 | 9.63 | 0.02 | 0.00 | 0.76 | 2.00 | 0.00 | 9.62 | 0.02 | 0.00 |
| 0.78 | 2.00 | 0.00 | 9.61 | 0.02 | 0.00 | 0.80 | 2.00 | 0.00 | 9.60 | 0.02 | 0.00 |
| 0.82 | 2.00 | 0.00 | 9.59 | 0.02 | 0.00 | 0.84 | 2.00 | 0.00 | 9.58 | 0.02 | 0.00 |
| 0.86 | 2.00 | 0.00 | 9.57 | 0.02 | 0.00 | 0.88 | 2.00 | 0.00 | 9.56 | 0.02 | 0.00 |
| 0.90 | 2.00 | 0.00 | 9.55 | 0.02 | 0.00 | 0.92 | 2.00 | 0.00 | 9.54 | 0.02 | 0.00 |
| 0.94 | 2.00 | 0.00 | 9.53 | 0.02 | 0.00 | 0.96 | 2.00 | 0.00 | 9.52 | 0.02 | 0.00 |
| 0.98 | 2.00 | 0.00 | 9.51 | 0.02 | 0.00 | 1.00 | 2.00 | 0.00 | 9.50 | 0.02 | 0.00 |
| 1.02 | 2.00 | 0.00 | 9.49 | 0.02 | 0.00 | 1.04 | 2.00 | 0.00 | 9.48 | 0.02 | 0.00 |
| 1.06 | 2.00 | 0.00 | 9.47 | 0.02 | 0.00 | 1.08 | 2.00 | 0.00 | 9.46 | 0.02 | 0.00 |
| 1.10 | 2.00 | 0.00 | 9.45 | 0.02 | 0.00 | 1.12 | 2.00 | 0.00 | 9.44 | 0.02 | 0.00 |
| 1.14 | 2.00 | 0.00 | 9.43 | 0.02 | 0.00 | 1.16 | 2.00 | 0.00 | 9.42 | 0.02 | 0.00 |
| 1.18 | 2.00 | 0.00 | 9.41 | 0.02 | 0.00 | 1.20 | 2.00 | 0.00 | 9.40 | 0.02 | 0.00 |
| 1.22 | 2.00 | 0.00 | 9.39 | 0.02 | 0.00 | 1.24 | 2.00 | 0.00 | 9.38 | 0.02 | 0.00 |
| 1.26 | 2.00 | 0.00 | 9.37 | 0.02 | 0.00 | 1.28 | 2.00 | 0.00 | 9.36 | 0.02 | 0.00 |
| 1.30 | 2.00 | 0.00 | 9.35 | 0.02 | 0.00 | 1.32 | 2.00 | 0.00 | 9.34 | 0.02 | 0.00 |
| 1.34 | 2.00 | 0.00 | 9.33 | 0.02 | 0.00 | 1.36 | 2.00 | 0.00 | 9.32 | 0.02 | 0.00 |
| 1.38 | 2.00 | 0.00 | 9.31 | 0.02 | 0.00 | 1.40 | 2.00 | 0.00 | 9.30 | 0.02 | 0.00 |
| 1.42 | 2.00 | 0.00 | 9.29 | 0.02 | 0.00 | 1.44 | 2.00 | 0.00 | 9.28 | 0.02 | 0.00 |
| 1.46 | 2.00 | 0.00 | 9.27 | 0.02 | 0.00 | 1.48 | 2.00 | 0.00 | 9.26 | 0.02 | 0.00 |
| 1.50 | 2.00 | 0.00 | 9.25 | 0.02 | 0.00 | 1.52 | 2.00 | 0.00 | 9.24 | 0.02 | 0.00 |
| 1.54 | 2.00 | 0.00 | 9.23 | 0.02 | 0.00 | 1.56 | 2.00 | 0.00 | 9.22 | 0.02 | 0.00 |
| 1.58 | 2.00 | 0.00 | 9.21 | 0.02 | 0.00 | 1.60 | 2.00 | 0.00 | 9.20 | 0.02 | 0.00 |
| 1.62 | 2.00 | 0.00 | 9.19 | 0.02 | 0.00 | 1.64 | 2.00 | 0.00 | 9.18 | 0.02 | 0.00 |
| 1.66 | 2.00 | 0.00 | 9.17 | 0.02 | 0.00 | 1.68 | 2.00 | 0.00 | 9.16 | 0.02 | 0.00 |
| 1.70 | 2.00 | 0.00 | 9.15 | 0.02 | 0.00 | 1.72 | 2.00 | 0.00 | 9.14 | 0.02 | 0.00 |
| 1.74 | 2.00 | 0.00 | 9.13 | 0.02 | 0.00 | 1.76 | 2.00 | 0.00 | 9.12 | 0.02 | 0.00 |
| 1.78 | 2.00 | 0.00 | 9.11 | 0.02 | 0.00 | 1.80 | 2.00 | 0.00 | 9.10 | 0.02 | 0.00 |
| 1.82 | 2.00 | 0.00 | 9.09 | 0.02 | 0.00 | 1.84 | 2.00 | 0.00 | 9.08 | 0.02 | 0.00 |
| 1.86 | 2.00 | 0.00 | 9.07 | 0.02 | 0.00 | 1.88 | 2.00 | 0.00 | 9.06 | 0.02 | 0.00 |
| 1.90 | 2.00 | 0.00 | 9.05 | 0.02 | 0.00 | 1.92 | 2.00 | 0.00 | 9.04 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 1.94 | 2.00 | 0.00 | 9.03 | 0.02 | 0.00 | 1.96 | 2.00 | 0.00 | 9.02 | 0.02 | 0.00 |
| 1.98 | 2.00 | 0.00 | 9.01 | 0.02 | 0.00 | 2.00 | 2.00 | 0.00 | 9.00 | 0.02 | 0.00 |
| 2.02 | 2.00 | 0.00 | 8.99 | 0.02 | 0.00 | 2.04 | 2.00 | 0.00 | 8.98 | 0.02 | 0.00 |
| 2.06 | 2.00 | 0.00 | 8.97 | 0.02 | 0.00 | 2.08 | 2.00 | 0.00 | 8.96 | 0.02 | 0.00 |
| 2.10 | 2.00 | 0.00 | 8.95 | 0.02 | 0.00 | 2.12 | 2.00 | 0.00 | 8.94 | 0.02 | 0.00 |
| 2.14 | 2.00 | 0.00 | 8.93 | 0.02 | 0.00 | 2.16 | 2.00 | 0.00 | 8.92 | 0.02 | 0.00 |
| 2.18 | 2.00 | 0.00 | 8.91 | 0.02 | 0.00 | 2.20 | 2.00 | 0.00 | 8.90 | 0.02 | 0.00 |
| 2.22 | 2.00 | 0.00 | 8.89 | 0.02 | 0.00 | 2.24 | 2.00 | 0.00 | 8.88 | 0.02 | 0.00 |
| 2.26 | 2.00 | 0.00 | 8.87 | 0.02 | 0.00 | 2.28 | 2.00 | 0.00 | 8.86 | 0.02 | 0.00 |
| 2.30 | 2.00 | 0.00 | 8.85 | 0.02 | 0.00 | 2.32 | 2.00 | 0.00 | 8.84 | 0.02 | 0.00 |
| 2.34 | 2.00 | 0.00 | 8.83 | 0.02 | 0.00 | 2.36 | 2.00 | 0.00 | 8.82 | 0.02 | 0.00 |
| 2.38 | 2.00 | 0.00 | 8.81 | 0.02 | 0.00 | 2.40 | 2.00 | 0.00 | 8.80 | 0.02 | 0.00 |
| 2.42 | 2.00 | 0.00 | 8.79 | 0.02 | 0.00 | 2.44 | 2.00 | 0.00 | 8.78 | 0.02 | 0.00 |
| 2.46 | 2.00 | 0.00 | 8.77 | 0.02 | 0.00 | 2.48 | 2.00 | 0.00 | 8.76 | 0.02 | 0.00 |
| 2.50 | 2.00 | 0.00 | 8.75 | 0.02 | 0.00 | 2.52 | 2.00 | 0.00 | 8.74 | 0.02 | 0.00 |
| 2.54 | 2.00 | 0.00 | 8.73 | 0.02 | 0.00 | 2.56 | 2.00 | 0.00 | 8.72 | 0.02 | 0.00 |
| 2.58 | 2.00 | 0.00 | 8.71 | 0.02 | 0.00 | 2.60 | 2.00 | 0.00 | 8.70 | 0.02 | 0.00 |
| 2.62 | 2.00 | 0.00 | 8.69 | 0.02 | 0.00 | 2.64 | 2.00 | 0.00 | 8.68 | 0.02 | 0.00 |
| 2.66 | 2.00 | 0.00 | 8.67 | 0.02 | 0.00 | 2.68 | 2.00 | 0.00 | 8.66 | 0.02 | 0.00 |
| 2.70 | 2.00 | 0.00 | 8.65 | 0.02 | 0.00 | 2.72 | 2.00 | 0.00 | 8.64 | 0.02 | 0.00 |
| 2.74 | 2.00 | 0.00 | 8.63 | 0.02 | 0.00 | 2.76 | 2.00 | 0.00 | 8.62 | 0.02 | 0.00 |
| 2.78 | 2.00 | 0.00 | 8.61 | 0.02 | 0.00 | 2.80 | 2.00 | 0.00 | 8.60 | 0.02 | 0.00 |
| 2.82 | 2.00 | 0.00 | 8.59 | 0.02 | 0.00 | 2.84 | 2.00 | 0.00 | 8.58 | 0.02 | 0.00 |
| 2.86 | 2.00 | 0.00 | 8.57 | 0.02 | 0.00 | 2.88 | 2.00 | 0.00 | 8.56 | 0.02 | 0.00 |
| 2.90 | 2.00 | 0.00 | 8.55 | 0.02 | 0.00 | 2.92 | 2.00 | 0.00 | 8.54 | 0.02 | 0.00 |
| 2.94 | 2.00 | 0.00 | 8.53 | 0.02 | 0.00 | 2.96 | 2.00 | 0.00 | 8.52 | 0.02 | 0.00 |
| 2.98 | 2.00 | 0.00 | 8.51 | 0.02 | 0.00 | 3.00 | 2.00 | 0.00 | 8.50 | 0.02 | 0.00 |
| 3.02 | 2.00 | 0.00 | 8.49 | 0.02 | 0.00 | 3.04 | 2.00 | 0.00 | 8.48 | 0.02 | 0.00 |
| 3.06 | 2.00 | 0.00 | 8.47 | 0.02 | 0.00 | 3.08 | 2.00 | 0.00 | 8.46 | 0.02 | 0.00 |
| 3.10 | 2.00 | 0.00 | 8.45 | 0.02 | 0.00 | 3.12 | 2.00 | 0.00 | 8.44 | 0.02 | 0.00 |
| 3.14 | 2.00 | 0.00 | 8.43 | 0.02 | 0.00 | 3.16 | 2.00 | 0.00 | 8.42 | 0.02 | 0.00 |
| 3.18 | 2.00 | 0.00 | 8.41 | 0.02 | 0.00 | 3.20 | 2.00 | 0.00 | 8.40 | 0.02 | 0.00 |
| 3.22 | 2.00 | 0.00 | 8.39 | 0.02 | 0.00 | 3.24 | 2.00 | 0.00 | 8.38 | 0.02 | 0.00 |
| 3.26 | 2.00 | 0.00 | 8.37 | 0.02 | 0.00 | 3.28 | 2.00 | 0.00 | 8.36 | 0.02 | 0.00 |
| 3.30 | 2.00 | 0.00 | 8.35 | 0.02 | 0.00 | 3.32 | 1.67 | 0.00 | 8.34 | 0.02 | 0.00 |
| 3.34 | 1.61 | 0.00 | 8.33 | 0.02 | 0.00 | 3.36 | 1.56 | 0.00 | 8.32 | 0.02 | 0.00 |
| 3.38 | 1.51 | 0.00 | 8.31 | 0.02 | 0.00 | 3.40 | 2.00 | 0.00 | 8.30 | 0.02 | 0.00 |
| 3.42 | 2.00 | 0.00 | 8.29 | 0.02 | 0.00 | 3.44 | 2.00 | 0.00 | 8.28 | 0.02 | 0.00 |
| 3.46 | 2.00 | 0.00 | 8.27 | 0.02 | 0.00 | 3.48 | 2.00 | 0.00 | 8.26 | 0.02 | 0.00 |
| 3.50 | 2.00 | 0.00 | 8.25 | 0.02 | 0.00 | 3.52 | 2.00 | 0.00 | 8.24 | 0.02 | 0.00 |
| 3.54 | 2.00 | 0.00 | 8.23 | 0.02 | 0.00 | 3.56 | 2.00 | 0.00 | 8.22 | 0.02 | 0.00 |
| 3.58 | 2.00 | 0.00 | 8.21 | 0.02 | 0.00 | 3.60 | 2.00 | 0.00 | 8.20 | 0.02 | 0.00 |
| 3.62 | 2.00 | 0.00 | 8.19 | 0.02 | 0.00 | 3.64 | 2.00 | 0.00 | 8.18 | 0.02 | 0.00 |
| 3.66 | 2.00 | 0.00 | 8.17 | 0.02 | 0.00 | 3.68 | 2.00 | 0.00 | 8.16 | 0.02 | 0.00 |
| 3.70 | 2.00 | 0.00 | 8.15 | 0.02 | 0.00 | 3.72 | 2.00 | 0.00 | 8.14 | 0.02 | 0.00 |
| 3.74 | 2.00 | 0.00 | 8.13 | 0.02 | 0.00 | 3.76 | 2.00 | 0.00 | 8.12 | 0.02 | 0.00 |
| 3.78 | 2.00 | 0.00 | 8.11 | 0.02 | 0.00 | 3.80 | 2.00 | 0.00 | 8.10 | 0.02 | 0.00 |
| 3.82 | 2.00 | 0.00 | 8.09 | 0.02 | 0.00 | 3.84 | 2.00 | 0.00 | 8.08 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 3.86 | 2.00 | 0.00 | 8.07 | 0.02 | 0.00 | 3.88 | 2.00 | 0.00 | 8.06 | 0.02 | 0.00 |
| 3.90 | 2.00 | 0.00 | 8.05 | 0.02 | 0.00 | 3.92 | 2.00 | 0.00 | 8.04 | 0.02 | 0.00 |
| 3.94 | 2.00 | 0.00 | 8.03 | 0.02 | 0.00 | 3.96 | 2.00 | 0.00 | 8.02 | 0.02 | 0.00 |
| 3.98 | 2.00 | 0.00 | 8.01 | 0.02 | 0.00 | 4.00 | 2.00 | 0.00 | 8.00 | 0.02 | 0.00 |
| 4.02 | 2.00 | 0.00 | 7.99 | 0.02 | 0.00 | 4.04 | 2.00 | 0.00 | 7.98 | 0.02 | 0.00 |
| 4.06 | 2.00 | 0.00 | 7.97 | 0.02 | 0.00 | 4.08 | 2.00 | 0.00 | 7.96 | 0.02 | 0.00 |
| 4.10 | 2.00 | 0.00 | 7.95 | 0.02 | 0.00 | 4.12 | 2.00 | 0.00 | 7.94 | 0.02 | 0.00 |
| 4.14 | 2.00 | 0.00 | 7.93 | 0.02 | 0.00 | 4.16 | 2.00 | 0.00 | 7.92 | 0.02 | 0.00 |
| 4.18 | 2.00 | 0.00 | 7.91 | 0.02 | 0.00 | 4.20 | 2.00 | 0.00 | 7.90 | 0.02 | 0.00 |
| 4.22 | 2.00 | 0.00 | 7.89 | 0.02 | 0.00 | 4.24 | 2.00 | 0.00 | 7.88 | 0.02 | 0.00 |
| 4.26 | 2.00 | 0.00 | 7.87 | 0.02 | 0.00 | 4.28 | 2.00 | 0.00 | 7.86 | 0.02 | 0.00 |
| 4.30 | 2.00 | 0.00 | 7.85 | 0.02 | 0.00 | 4.32 | 2.00 | 0.00 | 7.84 | 0.02 | 0.00 |
| 4.34 | 2.00 | 0.00 | 7.83 | 0.02 | 0.00 | 4.36 | 2.00 | 0.00 | 7.82 | 0.02 | 0.00 |
| 4.38 | 2.00 | 0.00 | 7.81 | 0.02 | 0.00 | 4.40 | 2.00 | 0.00 | 7.80 | 0.02 | 0.00 |
| 4.42 | 2.00 | 0.00 | 7.79 | 0.02 | 0.00 | 4.44 | 2.00 | 0.00 | 7.78 | 0.02 | 0.00 |
| 4.46 | 2.00 | 0.00 | 7.77 | 0.02 | 0.00 | 4.48 | 2.00 | 0.00 | 7.76 | 0.02 | 0.00 |
| 4.50 | 2.00 | 0.00 | 7.75 | 0.02 | 0.00 | 4.52 | 2.00 | 0.00 | 7.74 | 0.02 | 0.00 |
| 4.54 | 2.00 | 0.00 | 7.73 | 0.02 | 0.00 | 4.56 | 2.00 | 0.00 | 7.72 | 0.02 | 0.00 |
| 4.58 | 2.00 | 0.00 | 7.71 | 0.02 | 0.00 | 4.60 | 2.00 | 0.00 | 7.70 | 0.02 | 0.00 |
| 4.62 | 2.00 | 0.00 | 7.69 | 0.02 | 0.00 | 4.64 | 2.00 | 0.00 | 7.68 | 0.02 | 0.00 |
| 4.66 | 2.00 | 0.00 | 7.67 | 0.02 | 0.00 | 4.68 | 2.00 | 0.00 | 7.66 | 0.02 | 0.00 |
| 4.70 | 2.00 | 0.00 | 7.65 | 0.02 | 0.00 | 4.72 | 2.00 | 0.00 | 7.64 | 0.02 | 0.00 |
| 4.74 | 2.00 | 0.00 | 7.63 | 0.02 | 0.00 | 4.76 | 2.00 | 0.00 | 7.62 | 0.02 | 0.00 |
| 4.78 | 2.00 | 0.00 | 7.61 | 0.02 | 0.00 | 4.80 | 2.00 | 0.00 | 7.60 | 0.02 | 0.00 |
| 4.82 | 2.00 | 0.00 | 7.59 | 0.02 | 0.00 | 4.84 | 2.00 | 0.00 | 7.58 | 0.02 | 0.00 |
| 4.86 | 2.00 | 0.00 | 7.57 | 0.02 | 0.00 | 4.88 | 2.00 | 0.00 | 7.56 | 0.02 | 0.00 |
| 4.90 | 2.00 | 0.00 | 7.55 | 0.02 | 0.00 | 4.92 | 2.00 | 0.00 | 7.54 | 0.02 | 0.00 |
| 4.94 | 2.00 | 0.00 | 7.53 | 0.02 | 0.00 | 4.96 | 2.00 | 0.00 | 7.52 | 0.02 | 0.00 |
| 4.98 | 2.00 | 0.00 | 7.51 | 0.02 | 0.00 | 5.00 | 2.00 | 0.00 | 7.50 | 0.02 | 0.00 |
| 5.02 | 2.00 | 0.00 | 7.49 | 0.02 | 0.00 | 5.04 | 2.00 | 0.00 | 7.48 | 0.02 | 0.00 |
| 5.06 | 2.00 | 0.00 | 7.47 | 0.02 | 0.00 | 5.08 | 2.00 | 0.00 | 7.46 | 0.02 | 0.00 |
| 5.10 | 2.00 | 0.00 | 7.45 | 0.02 | 0.00 | 5.12 | 2.00 | 0.00 | 7.44 | 0.02 | 0.00 |
| 5.14 | 2.00 | 0.00 | 7.43 | 0.02 | 0.00 | 5.16 | 2.00 | 0.00 | 7.42 | 0.02 | 0.00 |
| 5.18 | 2.00 | 0.00 | 7.41 | 0.02 | 0.00 | 5.20 | 2.00 | 0.00 | 7.40 | 0.02 | 0.00 |
| 5.22 | 2.00 | 0.00 | 7.39 | 0.02 | 0.00 | 5.24 | 2.00 | 0.00 | 7.38 | 0.02 | 0.00 |
| 5.26 | 2.00 | 0.00 | 7.37 | 0.02 | 0.00 | 5.28 | 2.00 | 0.00 | 7.36 | 0.02 | 0.00 |
| 5.30 | 2.00 | 0.00 | 7.35 | 0.02 | 0.00 | 5.32 | 2.00 | 0.00 | 7.34 | 0.02 | 0.00 |
| 5.34 | 2.00 | 0.00 | 7.33 | 0.02 | 0.00 | 5.36 | 2.00 | 0.00 | 7.32 | 0.02 | 0.00 |
| 5.38 | 2.00 | 0.00 | 7.31 | 0.02 | 0.00 | 5.40 | 2.00 | 0.00 | 7.30 | 0.02 | 0.00 |
| 5.42 | 2.00 | 0.00 | 7.29 | 0.02 | 0.00 | 5.44 | 2.00 | 0.00 | 7.28 | 0.02 | 0.00 |
| 5.46 | 2.00 | 0.00 | 7.27 | 0.02 | 0.00 | 5.48 | 2.00 | 0.00 | 7.26 | 0.02 | 0.00 |
| 5.50 | 2.00 | 0.00 | 7.25 | 0.02 | 0.00 | 5.52 | 2.00 | 0.00 | 7.24 | 0.02 | 0.00 |
| 5.54 | 2.00 | 0.00 | 7.23 | 0.02 | 0.00 | 5.56 | 2.00 | 0.00 | 7.22 | 0.02 | 0.00 |
| 5.58 | 2.00 | 0.00 | 7.21 | 0.02 | 0.00 | 5.60 | 2.00 | 0.00 | 7.20 | 0.02 | 0.00 |
| 5.62 | 2.00 | 0.00 | 7.19 | 0.02 | 0.00 | 5.64 | 2.00 | 0.00 | 7.18 | 0.02 | 0.00 |
| 5.66 | 2.00 | 0.00 | 7.17 | 0.02 | 0.00 | 5.68 | 2.00 | 0.00 | 7.16 | 0.02 | 0.00 |
| 5.70 | 2.00 | 0.00 | 7.15 | 0.02 | 0.00 | 5.72 | 2.00 | 0.00 | 7.14 | 0.02 | 0.00 |
| 5.74 | 2.00 | 0.00 | 7.13 | 0.02 | 0.00 | 5.76 | 2.00 | 0.00 | 7.12 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 5.78 | 2.00 | 0.00 | 7.11 | 0.02 | 0.00 | 5.80 | 2.00 | 0.00 | 7.10 | 0.02 | 0.00 |
| 5.82 | 2.00 | 0.00 | 7.09 | 0.02 | 0.00 | 5.84 | 2.00 | 0.00 | 7.08 | 0.02 | 0.00 |
| 5.86 | 2.00 | 0.00 | 7.07 | 0.02 | 0.00 | 5.88 | 2.00 | 0.00 | 7.06 | 0.02 | 0.00 |
| 5.90 | 2.00 | 0.00 | 7.05 | 0.02 | 0.00 | 5.92 | 2.00 | 0.00 | 7.04 | 0.02 | 0.00 |
| 5.94 | 2.00 | 0.00 | 7.03 | 0.02 | 0.00 | 5.96 | 2.00 | 0.00 | 7.02 | 0.02 | 0.00 |
| 5.98 | 2.00 | 0.00 | 7.01 | 0.02 | 0.00 | 6.00 | 2.00 | 0.00 | 7.00 | 0.02 | 0.00 |
| 6.02 | 2.00 | 0.00 | 6.99 | 0.02 | 0.00 | 6.04 | 2.00 | 0.00 | 6.98 | 0.02 | 0.00 |
| 6.06 | 2.00 | 0.00 | 6.97 | 0.02 | 0.00 | 6.08 | 2.00 | 0.00 | 6.96 | 0.02 | 0.00 |
| 6.10 | 2.00 | 0.00 | 6.95 | 0.02 | 0.00 | 6.12 | 2.00 | 0.00 | 6.94 | 0.02 | 0.00 |
| 6.14 | 2.00 | 0.00 | 6.93 | 0.02 | 0.00 | 6.16 | 2.00 | 0.00 | 6.92 | 0.02 | 0.00 |
| 6.18 | 2.00 | 0.00 | 6.91 | 0.02 | 0.00 | 6.20 | 2.00 | 0.00 | 6.90 | 0.02 | 0.00 |
| 6.22 | 2.00 | 0.00 | 6.89 | 0.02 | 0.00 | 6.24 | 2.00 | 0.00 | 6.88 | 0.02 | 0.00 |
| 6.26 | 2.00 | 0.00 | 6.87 | 0.02 | 0.00 | 6.28 | 2.00 | 0.00 | 6.86 | 0.02 | 0.00 |
| 6.30 | 2.00 | 0.00 | 6.85 | 0.02 | 0.00 | 6.32 | 2.00 | 0.00 | 6.84 | 0.02 | 0.00 |
| 6.34 | 2.00 | 0.00 | 6.83 | 0.02 | 0.00 | 6.36 | 2.00 | 0.00 | 6.82 | 0.02 | 0.00 |
| 6.38 | 2.00 | 0.00 | 6.81 | 0.02 | 0.00 | 6.40 | 2.00 | 0.00 | 6.80 | 0.02 | 0.00 |
| 6.42 | 2.00 | 0.00 | 6.79 | 0.02 | 0.00 | 6.44 | 2.00 | 0.00 | 6.78 | 0.02 | 0.00 |
| 6.46 | 2.00 | 0.00 | 6.77 | 0.02 | 0.00 | 6.48 | 2.00 | 0.00 | 6.76 | 0.02 | 0.00 |
| 6.50 | 2.00 | 0.00 | 6.75 | 0.02 | 0.00 | 6.52 | 2.00 | 0.00 | 6.74 | 0.02 | 0.00 |
| 6.54 | 2.00 | 0.00 | 6.73 | 0.02 | 0.00 | 6.56 | 2.00 | 0.00 | 6.72 | 0.02 | 0.00 |
| 6.58 | 2.00 | 0.00 | 6.71 | 0.02 | 0.00 | 6.60 | 2.00 | 0.00 | 6.70 | 0.02 | 0.00 |
| 6.62 | 2.00 | 0.00 | 6.69 | 0.02 | 0.00 | 6.64 | 2.00 | 0.00 | 6.68 | 0.02 | 0.00 |
| 6.66 | 2.00 | 0.00 | 6.67 | 0.02 | 0.00 | 6.68 | 2.00 | 0.00 | 6.66 | 0.02 | 0.00 |
| 6.70 | 2.00 | 0.00 | 6.65 | 0.02 | 0.00 | 6.72 | 2.00 | 0.00 | 6.64 | 0.02 | 0.00 |
| 6.74 | 2.00 | 0.00 | 6.63 | 0.02 | 0.00 | 6.76 | 2.00 | 0.00 | 6.62 | 0.02 | 0.00 |
| 6.78 | 2.00 | 0.00 | 6.61 | 0.02 | 0.00 | 6.80 | 2.00 | 0.00 | 6.60 | 0.02 | 0.00 |
| 6.82 | 2.00 | 0.00 | 6.59 | 0.02 | 0.00 | 6.84 | 2.00 | 0.00 | 6.58 | 0.02 | 0.00 |
| 6.86 | 2.00 | 0.00 | 6.57 | 0.02 | 0.00 | 6.88 | 2.00 | 0.00 | 6.56 | 0.02 | 0.00 |
| 6.90 | 2.00 | 0.00 | 6.55 | 0.02 | 0.00 | 6.92 | 2.00 | 0.00 | 6.54 | 0.02 | 0.00 |
| 6.94 | 2.00 | 0.00 | 6.53 | 0.02 | 0.00 | 6.96 | 2.00 | 0.00 | 6.52 | 0.02 | 0.00 |
| 6.98 | 2.00 | 0.00 | 6.51 | 0.02 | 0.00 | 7.00 | 2.00 | 0.00 | 6.50 | 0.02 | 0.00 |
| 7.02 | 2.00 | 0.00 | 6.49 | 0.02 | 0.00 | 7.04 | 2.00 | 0.00 | 6.48 | 0.02 | 0.00 |
| 7.06 | 2.00 | 0.00 | 6.47 | 0.02 | 0.00 | 7.08 | 2.00 | 0.00 | 6.46 | 0.02 | 0.00 |
| 7.10 | 2.00 | 0.00 | 6.45 | 0.02 | 0.00 | 7.12 | 2.00 | 0.00 | 6.44 | 0.02 | 0.00 |
| 7.14 | 2.00 | 0.00 | 6.43 | 0.02 | 0.00 | 7.16 | 2.00 | 0.00 | 6.42 | 0.02 | 0.00 |
| 7.18 | 2.00 | 0.00 | 6.41 | 0.02 | 0.00 | 7.20 | 2.00 | 0.00 | 6.40 | 0.02 | 0.00 |
| 7.22 | 2.00 | 0.00 | 6.39 | 0.02 | 0.00 | 7.24 | 2.00 | 0.00 | 6.38 | 0.02 | 0.00 |
| 7.26 | 2.00 | 0.00 | 6.37 | 0.02 | 0.00 | 7.28 | 2.00 | 0.00 | 6.36 | 0.02 | 0.00 |
| 7.30 | 2.00 | 0.00 | 6.35 | 0.02 | 0.00 | 7.32 | 2.00 | 0.00 | 6.34 | 0.02 | 0.00 |
| 7.34 | 2.00 | 0.00 | 6.33 | 0.02 | 0.00 | 7.36 | 2.00 | 0.00 | 6.32 | 0.02 | 0.00 |
| 7.38 | 2.00 | 0.00 | 6.31 | 0.02 | 0.00 | 7.40 | 2.00 | 0.00 | 6.30 | 0.02 | 0.00 |
| 7.42 | 2.00 | 0.00 | 6.29 | 0.02 | 0.00 | 7.44 | 2.00 | 0.00 | 6.28 | 0.02 | 0.00 |
| 7.46 | 2.00 | 0.00 | 6.27 | 0.02 | 0.00 | 7.48 | 2.00 | 0.00 | 6.26 | 0.02 | 0.00 |
| 7.50 | 2.00 | 0.00 | 6.25 | 0.02 | 0.00 | 7.52 | 2.00 | 0.00 | 6.24 | 0.02 | 0.00 |
| 7.54 | 2.00 | 0.00 | 6.23 | 0.02 | 0.00 | 7.56 | 2.00 | 0.00 | 6.22 | 0.02 | 0.00 |
| 7.58 | 2.00 | 0.00 | 6.21 | 0.02 | 0.00 | 7.60 | 2.00 | 0.00 | 6.20 | 0.02 | 0.00 |
| 7.62 | 2.00 | 0.00 | 6.19 | 0.02 | 0.00 | 7.64 | 2.00 | 0.00 | 6.18 | 0.02 | 0.00 |
| 7.66 | 2.00 | 0.00 | 6.17 | 0.02 | 0.00 | 7.68 | 2.00 | 0.00 | 6.16 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 7.70 | 2.00 | 0.00 | 6.15 | 0.02 | 0.00 | 7.72 | 2.00 | 0.00 | 6.14 | 0.02 | 0.00 |
| 7.74 | 2.00 | 0.00 | 6.13 | 0.02 | 0.00 | 7.76 | 2.00 | 0.00 | 6.12 | 0.02 | 0.00 |
| 7.78 | 2.00 | 0.00 | 6.11 | 0.02 | 0.00 | 7.80 | 2.00 | 0.00 | 6.10 | 0.02 | 0.00 |
| 7.82 | 2.00 | 0.00 | 6.09 | 0.02 | 0.00 | 7.84 | 2.00 | 0.00 | 6.08 | 0.02 | 0.00 |
| 7.86 | 2.00 | 0.00 | 6.07 | 0.02 | 0.00 | 7.88 | 2.00 | 0.00 | 6.06 | 0.02 | 0.00 |
| 7.90 | 2.00 | 0.00 | 6.05 | 0.02 | 0.00 | 7.92 | 2.00 | 0.00 | 6.04 | 0.02 | 0.00 |
| 7.94 | 2.00 | 0.00 | 6.03 | 0.02 | 0.00 | 7.96 | 2.00 | 0.00 | 6.02 | 0.02 | 0.00 |
| 7.98 | 2.00 | 0.00 | 6.01 | 0.02 | 0.00 | 8.00 | 2.00 | 0.00 | 6.00 | 0.02 | 0.00 |
| 8.02 | 2.00 | 0.00 | 5.99 | 0.02 | 0.00 | 8.04 | 2.00 | 0.00 | 5.98 | 0.02 | 0.00 |
| 8.06 | 2.00 | 0.00 | 5.97 | 0.02 | 0.00 | 8.08 | 2.00 | 0.00 | 5.96 | 0.02 | 0.00 |
| 8.10 | 2.00 | 0.00 | 5.95 | 0.02 | 0.00 | 8.12 | 2.00 | 0.00 | 5.94 | 0.02 | 0.00 |
| 8.14 | 2.00 | 0.00 | 5.93 | 0.02 | 0.00 | 8.16 | 2.00 | 0.00 | 5.92 | 0.02 | 0.00 |
| 8.18 | 2.00 | 0.00 | 5.91 | 0.02 | 0.00 | 8.20 | 2.00 | 0.00 | 5.90 | 0.02 | 0.00 |
| 8.22 | 2.00 | 0.00 | 5.89 | 0.02 | 0.00 | 8.24 | 2.00 | 0.00 | 5.88 | 0.02 | 0.00 |
| 8.26 | 2.00 | 0.00 | 5.87 | 0.02 | 0.00 | 8.28 | 2.00 | 0.00 | 5.86 | 0.02 | 0.00 |
| 8.30 | 2.00 | 0.00 | 5.85 | 0.02 | 0.00 | 8.32 | 2.00 | 0.00 | 5.84 | 0.02 | 0.00 |
| 8.34 | 2.00 | 0.00 | 5.83 | 0.02 | 0.00 | 8.36 | 2.00 | 0.00 | 5.82 | 0.02 | 0.00 |
| 8.38 | 2.00 | 0.00 | 5.81 | 0.02 | 0.00 | 8.40 | 2.00 | 0.00 | 5.80 | 0.02 | 0.00 |
| 8.42 | 2.00 | 0.00 | 5.79 | 0.02 | 0.00 | 8.44 | 2.00 | 0.00 | 5.78 | 0.02 | 0.00 |
| 8.46 | 2.00 | 0.00 | 5.77 | 0.02 | 0.00 | 8.48 | 2.00 | 0.00 | 5.76 | 0.02 | 0.00 |
| 8.50 | 2.00 | 0.00 | 5.75 | 0.02 | 0.00 | 8.52 | 2.00 | 0.00 | 5.74 | 0.02 | 0.00 |
| 8.54 | 2.00 | 0.00 | 5.73 | 0.02 | 0.00 | 8.56 | 2.00 | 0.00 | 5.72 | 0.02 | 0.00 |
| 8.58 | 2.00 | 0.00 | 5.71 | 0.02 | 0.00 | 8.60 | 2.00 | 0.00 | 5.70 | 0.02 | 0.00 |
| 8.62 | 2.00 | 0.00 | 5.69 | 0.02 | 0.00 | 8.64 | 2.00 | 0.00 | 5.68 | 0.02 | 0.00 |
| 8.66 | 2.00 | 0.00 | 5.67 | 0.02 | 0.00 | 8.68 | 2.00 | 0.00 | 5.66 | 0.02 | 0.00 |
| 8.70 | 2.00 | 0.00 | 5.65 | 0.02 | 0.00 | 8.72 | 2.00 | 0.00 | 5.64 | 0.02 | 0.00 |
| 8.74 | 2.00 | 0.00 | 5.63 | 0.02 | 0.00 | 8.76 | 2.00 | 0.00 | 5.62 | 0.02 | 0.00 |
| 8.78 | 2.00 | 0.00 | 5.61 | 0.02 | 0.00 | 8.80 | 2.00 | 0.00 | 5.60 | 0.02 | 0.00 |
| 8.82 | 2.00 | 0.00 | 5.59 | 0.02 | 0.00 | 8.84 | 2.00 | 0.00 | 5.58 | 0.02 | 0.00 |
| 8.86 | 2.00 | 0.00 | 5.57 | 0.02 | 0.00 | 8.88 | 2.00 | 0.00 | 5.56 | 0.02 | 0.00 |
| 8.90 | 2.00 | 0.00 | 5.55 | 0.02 | 0.00 | 8.92 | 2.00 | 0.00 | 5.54 | 0.02 | 0.00 |
| 8.94 | 2.00 | 0.00 | 5.53 | 0.02 | 0.00 | 8.96 | 2.00 | 0.00 | 5.52 | 0.02 | 0.00 |
| 8.98 | 2.00 | 0.00 | 5.51 | 0.02 | 0.00 | 9.00 | 2.00 | 0.00 | 5.50 | 0.02 | 0.00 |
| 9.02 | 2.00 | 0.00 | 5.49 | 0.02 | 0.00 | 9.04 | 2.00 | 0.00 | 5.48 | 0.02 | 0.00 |
| 9.06 | 2.00 | 0.00 | 5.47 | 0.02 | 0.00 | 9.08 | 2.00 | 0.00 | 5.46 | 0.02 | 0.00 |
| 9.10 | 2.00 | 0.00 | 5.45 | 0.02 | 0.00 | 9.12 | 2.00 | 0.00 | 5.44 | 0.02 | 0.00 |
| 9.14 | 2.00 | 0.00 | 5.43 | 0.02 | 0.00 | 9.16 | 2.00 | 0.00 | 5.42 | 0.02 | 0.00 |
| 9.18 | 2.00 | 0.00 | 5.41 | 0.02 | 0.00 | 9.20 | 2.00 | 0.00 | 5.40 | 0.02 | 0.00 |
| 9.22 | 2.00 | 0.00 | 5.39 | 0.02 | 0.00 | 9.24 | 2.00 | 0.00 | 5.38 | 0.02 | 0.00 |
| 9.26 | 2.00 | 0.00 | 5.37 | 0.02 | 0.00 | 9.28 | 2.00 | 0.00 | 5.36 | 0.02 | 0.00 |
| 9.30 | 2.00 | 0.00 | 5.35 | 0.02 | 0.00 | 9.32 | 2.00 | 0.00 | 5.34 | 0.02 | 0.00 |
| 9.34 | 2.00 | 0.00 | 5.33 | 0.02 | 0.00 | 9.36 | 2.00 | 0.00 | 5.32 | 0.02 | 0.00 |
| 9.38 | 2.00 | 0.00 | 5.31 | 0.02 | 0.00 | 9.40 | 2.00 | 0.00 | 5.30 | 0.02 | 0.00 |
| 9.42 | 2.00 | 0.00 | 5.29 | 0.02 | 0.00 | 9.44 | 2.00 | 0.00 | 5.28 | 0.02 | 0.00 |
| 9.46 | 2.00 | 0.00 | 5.27 | 0.02 | 0.00 | 9.48 | 2.00 | 0.00 | 5.26 | 0.02 | 0.00 |
| 9.50 | 2.00 | 0.00 | 5.25 | 0.02 | 0.00 | 9.52 | 2.00 | 0.00 | 5.24 | 0.02 | 0.00 |
| 9.54 | 2.00 | 0.00 | 5.23 | 0.02 | 0.00 | 9.56 | 2.00 | 0.00 | 5.22 | 0.02 | 0.00 |
| 9.58 | 2.00 | 0.00 | 5.21 | 0.02 | 0.00 | 9.60 | 2.00 | 0.00 | 5.20 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 9.62 | 2.00 | 0.00 | 5.19 | 0.02 | 0.00 | 9.64 | 2.00 | 0.00 | 5.18 | 0.02 | 0.00 |
| 9.66 | 2.00 | 0.00 | 5.17 | 0.02 | 0.00 | 9.68 | 2.00 | 0.00 | 5.16 | 0.02 | 0.00 |
| 9.70 | 2.00 | 0.00 | 5.15 | 0.02 | 0.00 | 9.72 | 2.00 | 0.00 | 5.14 | 0.02 | 0.00 |
| 9.74 | 2.00 | 0.00 | 5.13 | 0.02 | 0.00 | 9.76 | 2.00 | 0.00 | 5.12 | 0.02 | 0.00 |
| 9.78 | 2.00 | 0.00 | 5.11 | 0.02 | 0.00 | 9.80 | 2.00 | 0.00 | 5.10 | 0.02 | 0.00 |
| 9.82 | 2.00 | 0.00 | 5.09 | 0.02 | 0.00 | 9.84 | 2.00 | 0.00 | 5.08 | 0.02 | 0.00 |
| 9.86 | 2.00 | 0.00 | 5.07 | 0.02 | 0.00 | 9.88 | 2.00 | 0.00 | 5.06 | 0.02 | 0.00 |
| 9.90 | 2.00 | 0.00 | 5.05 | 0.02 | 0.00 | 9.92 | 2.00 | 0.00 | 5.04 | 0.02 | 0.00 |
| 9.94 | 2.00 | 0.00 | 5.03 | 0.02 | 0.00 | 9.96 | 2.00 | 0.00 | 5.02 | 0.02 | 0.00 |
| 9.98 | 2.00 | 0.00 | 5.01 | 0.02 | 0.00 | 10.00 | 2.00 | 0.00 | 5.00 | 0.02 | 0.00 |
| 10.02 | 2.00 | 0.00 | 4.99 | 0.02 | 0.00 | 10.04 | 2.00 | 0.00 | 4.98 | 0.02 | 0.00 |
| 10.06 | 2.00 | 0.00 | 4.97 | 0.02 | 0.00 | 10.08 | 2.00 | 0.00 | 4.96 | 0.02 | 0.00 |
| 10.10 | 2.00 | 0.00 | 4.95 | 0.02 | 0.00 | 10.12 | 2.00 | 0.00 | 4.94 | 0.02 | 0.00 |
| 10.14 | 2.00 | 0.00 | 4.93 | 0.02 | 0.00 | 10.16 | 2.00 | 0.00 | 4.92 | 0.02 | 0.00 |
| 10.18 | 2.00 | 0.00 | 4.91 | 0.02 | 0.00 | 10.20 | 2.00 | 0.00 | 4.90 | 0.02 | 0.00 |
| 10.22 | 2.00 | 0.00 | 4.89 | 0.02 | 0.00 | 10.24 | 2.00 | 0.00 | 4.88 | 0.02 | 0.00 |
| 10.26 | 2.00 | 0.00 | 4.87 | 0.02 | 0.00 | 10.28 | 2.00 | 0.00 | 4.86 | 0.02 | 0.00 |
| 10.30 | 2.00 | 0.00 | 4.85 | 0.02 | 0.00 | 10.32 | 2.00 | 0.00 | 4.84 | 0.02 | 0.00 |
| 10.34 | 2.00 | 0.00 | 4.83 | 0.02 | 0.00 | 10.36 | 2.00 | 0.00 | 4.82 | 0.02 | 0.00 |
| 10.38 | 2.00 | 0.00 | 4.81 | 0.02 | 0.00 | 10.40 | 1.38 | 0.00 | 4.80 | 0.02 | 0.00 |
| 10.42 | 2.00 | 0.00 | 4.79 | 0.02 | 0.00 | 10.44 | 2.00 | 0.00 | 4.78 | 0.02 | 0.00 |
| 10.46 | 2.00 | 0.00 | 4.77 | 0.02 | 0.00 | 10.48 | 2.00 | 0.00 | 4.76 | 0.02 | 0.00 |
| 10.50 | 2.00 | 0.00 | 4.75 | 0.02 | 0.00 | 10.52 | 2.00 | 0.00 | 4.74 | 0.02 | 0.00 |
| 10.54 | 2.00 | 0.00 | 4.73 | 0.02 | 0.00 | 10.56 | 2.00 | 0.00 | 4.72 | 0.02 | 0.00 |
| 10.58 | 2.00 | 0.00 | 4.71 | 0.02 | 0.00 | 10.60 | 2.00 | 0.00 | 4.70 | 0.02 | 0.00 |
| 10.62 | 2.00 | 0.00 | 4.69 | 0.02 | 0.00 | 10.64 | 2.00 | 0.00 | 4.68 | 0.02 | 0.00 |
| 10.66 | 1.33 | 0.00 | 4.67 | 0.02 | 0.00 | 10.68 | 1.33 | 0.00 | 4.66 | 0.02 | 0.00 |
| 10.70 | 1.38 | 0.00 | 4.65 | 0.02 | 0.00 | 10.72 | 1.48 | 0.00 | 4.64 | 0.02 | 0.00 |
| 10.74 | 1.56 | 0.00 | 4.63 | 0.02 | 0.00 | 10.76 | 2.00 | 0.00 | 4.62 | 0.02 | 0.00 |
| 10.78 | 2.00 | 0.00 | 4.61 | 0.02 | 0.00 | 10.80 | 2.00 | 0.00 | 4.60 | 0.02 | 0.00 |
| 10.82 | 2.00 | 0.00 | 4.59 | 0.02 | 0.00 | 10.84 | 2.00 | 0.00 | 4.58 | 0.02 | 0.00 |
| 10.86 | 2.00 | 0.00 | 4.57 | 0.02 | 0.00 | 10.88 | 2.00 | 0.00 | 4.56 | 0.02 | 0.00 |
| 10.90 | 2.00 | 0.00 | 4.55 | 0.02 | 0.00 | 10.92 | 2.00 | 0.00 | 4.54 | 0.02 | 0.00 |
| 10.94 | 2.00 | 0.00 | 4.53 | 0.02 | 0.00 | 10.96 | 2.00 | 0.00 | 4.52 | 0.02 | 0.00 |
| 10.98 | 2.00 | 0.00 | 4.51 | 0.02 | 0.00 | 11.00 | 1.52 | 0.00 | 4.50 | 0.02 | 0.00 |
| 11.02 | 1.59 | 0.00 | 4.49 | 0.02 | 0.00 | 11.04 | 1.66 | 0.00 | 4.48 | 0.02 | 0.00 |
| 11.06 | 1.77 | 0.00 | 4.47 | 0.02 | 0.00 | 11.08 | 1.91 | 0.00 | 4.46 | 0.02 | 0.00 |
| 11.10 | 2.00 | 0.00 | 4.45 | 0.02 | 0.00 | 11.12 | 2.00 | 0.00 | 4.44 | 0.02 | 0.00 |
| 11.14 | 2.00 | 0.00 | 4.43 | 0.02 | 0.00 | 11.16 | 2.00 | 0.00 | 4.42 | 0.02 | 0.00 |
| 11.18 | 2.00 | 0.00 | 4.41 | 0.02 | 0.00 | 11.20 | 2.00 | 0.00 | 4.40 | 0.02 | 0.00 |
| 11.22 | 2.00 | 0.00 | 4.39 | 0.02 | 0.00 | 11.24 | 2.00 | 0.00 | 4.38 | 0.02 | 0.00 |
| 11.26 | 2.00 | 0.00 | 4.37 | 0.02 | 0.00 | 11.28 | 2.00 | 0.00 | 4.36 | 0.02 | 0.00 |
| 11.30 | 1.90 | 0.00 | 4.35 | 0.02 | 0.00 | 11.32 | 1.76 | 0.00 | 4.34 | 0.02 | 0.00 |
| 11.34 | 1.66 | 0.00 | 4.33 | 0.02 | 0.00 | 11.36 | 1.55 | 0.00 | 4.32 | 0.02 | 0.00 |
| 11.38 | 1.50 | 0.00 | 4.31 | 0.02 | 0.00 | 11.40 | 1.52 | 0.00 | 4.30 | 0.02 | 0.00 |
| 11.42 | 1.63 | 0.00 | 4.29 | 0.02 | 0.00 | 11.44 | 1.76 | 0.00 | 4.28 | 0.02 | 0.00 |
| 11.46 | 1.60 | 0.00 | 4.27 | 0.02 | 0.00 | 11.48 | 1.88 | 0.00 | 4.26 | 0.02 | 0.00 |
| 11.50 | 1.93 | 0.00 | 4.25 | 0.02 | 0.00 | 11.52 | 1.96 | 0.00 | 4.24 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 11.54 | 1.98 | 0.00 | 4.23 | 0.02 | 0.00 | 11.56 | 1.95 | 0.00 | 4.22 | 0.02 | 0.00 |
| 11.58 | 1.91 | 0.00 | 4.21 | 0.02 | 0.00 | 11.60 | 1.85 | 0.00 | 4.20 | 0.02 | 0.00 |
| 11.62 | 1.77 | 0.00 | 4.19 | 0.02 | 0.00 | 11.64 | 1.72 | 0.00 | 4.18 | 0.02 | 0.00 |
| 11.66 | 1.74 | 0.00 | 4.17 | 0.02 | 0.00 | 11.68 | 1.83 | 0.00 | 4.16 | 0.02 | 0.00 |
| 11.70 | 1.91 | 0.00 | 4.15 | 0.02 | 0.00 | 11.72 | 1.94 | 0.00 | 4.14 | 0.02 | 0.00 |
| 11.74 | 2.00 | 0.00 | 4.13 | 0.02 | 0.00 | 11.76 | 2.00 | 0.00 | 4.12 | 0.02 | 0.00 |
| 11.78 | 2.00 | 0.00 | 4.11 | 0.02 | 0.00 | 11.80 | 2.00 | 0.00 | 4.10 | 0.02 | 0.00 |
| 11.82 | 2.00 | 0.00 | 4.09 | 0.02 | 0.00 | 11.84 | 2.00 | 0.00 | 4.08 | 0.02 | 0.00 |
| 11.86 | 2.00 | 0.00 | 4.07 | 0.02 | 0.00 | 11.88 | 2.00 | 0.00 | 4.06 | 0.02 | 0.00 |
| 11.90 | 2.00 | 0.00 | 4.05 | 0.02 | 0.00 | 11.92 | 2.00 | 0.00 | 4.04 | 0.02 | 0.00 |
| 11.94 | 2.00 | 0.00 | 4.03 | 0.02 | 0.00 | 11.96 | 2.00 | 0.00 | 4.02 | 0.02 | 0.00 |
| 11.98 | 2.00 | 0.00 | 4.01 | 0.02 | 0.00 | 12.00 | 2.00 | 0.00 | 4.00 | 0.02 | 0.00 |
| 12.02 | 2.00 | 0.00 | 3.99 | 0.02 | 0.00 | 12.04 | 2.00 | 0.00 | 3.98 | 0.02 | 0.00 |
| 12.06 | 2.00 | 0.00 | 3.97 | 0.02 | 0.00 | 12.08 | 2.00 | 0.00 | 3.96 | 0.02 | 0.00 |
| 12.10 | 2.00 | 0.00 | 3.95 | 0.02 | 0.00 | 12.12 | 1.51 | 0.00 | 3.94 | 0.02 | 0.00 |
| 12.14 | 2.00 | 0.00 | 3.93 | 0.02 | 0.00 | 12.16 | 2.00 | 0.00 | 3.92 | 0.02 | 0.00 |
| 12.18 | 2.00 | 0.00 | 3.91 | 0.02 | 0.00 | 12.20 | 2.00 | 0.00 | 3.90 | 0.02 | 0.00 |
| 12.22 | 2.00 | 0.00 | 3.89 | 0.02 | 0.00 | 12.24 | 2.00 | 0.00 | 3.88 | 0.02 | 0.00 |
| 12.26 | 2.00 | 0.00 | 3.87 | 0.02 | 0.00 | 12.28 | 2.00 | 0.00 | 3.86 | 0.02 | 0.00 |
| 12.30 | 2.00 | 0.00 | 3.85 | 0.02 | 0.00 | 12.32 | 2.00 | 0.00 | 3.84 | 0.02 | 0.00 |
| 12.34 | 2.00 | 0.00 | 3.83 | 0.02 | 0.00 | 12.36 | 2.00 | 0.00 | 3.82 | 0.02 | 0.00 |
| 12.38 | 2.00 | 0.00 | 3.81 | 0.02 | 0.00 | 12.40 | 2.00 | 0.00 | 3.80 | 0.02 | 0.00 |
| 12.42 | 2.00 | 0.00 | 3.79 | 0.02 | 0.00 | 12.44 | 2.00 | 0.00 | 3.78 | 0.02 | 0.00 |
| 12.46 | 2.00 | 0.00 | 3.77 | 0.02 | 0.00 | 12.48 | 2.00 | 0.00 | 3.76 | 0.02 | 0.00 |
| 12.50 | 2.00 | 0.00 | 3.75 | 0.02 | 0.00 | 12.52 | 2.00 | 0.00 | 3.74 | 0.02 | 0.00 |
| 12.54 | 2.00 | 0.00 | 3.73 | 0.02 | 0.00 | 12.56 | 2.00 | 0.00 | 3.72 | 0.02 | 0.00 |
| 12.58 | 2.00 | 0.00 | 3.71 | 0.02 | 0.00 | 12.60 | 2.00 | 0.00 | 3.70 | 0.02 | 0.00 |
| 12.62 | 2.00 | 0.00 | 3.69 | 0.02 | 0.00 | 12.64 | 2.00 | 0.00 | 3.68 | 0.02 | 0.00 |
| 12.66 | 2.00 | 0.00 | 3.67 | 0.02 | 0.00 | 12.68 | 2.00 | 0.00 | 3.66 | 0.02 | 0.00 |
| 12.70 | 2.00 | 0.00 | 3.65 | 0.02 | 0.00 | 12.72 | 2.00 | 0.00 | 3.64 | 0.02 | 0.00 |
| 12.74 | 2.00 | 0.00 | 3.63 | 0.02 | 0.00 | 12.76 | 2.00 | 0.00 | 3.62 | 0.02 | 0.00 |
| 12.78 | 1.58 | 0.00 | 3.61 | 0.02 | 0.00 | 12.80 | 1.62 | 0.00 | 3.60 | 0.02 | 0.00 |
| 12.82 | 2.00 | 0.00 | 3.59 | 0.02 | 0.00 | 12.84 | 2.00 | 0.00 | 3.58 | 0.02 | 0.00 |
| 12.86 | 2.00 | 0.00 | 3.57 | 0.02 | 0.00 | 12.88 | 2.00 | 0.00 | 3.56 | 0.02 | 0.00 |
| 12.90 | 2.00 | 0.00 | 3.55 | 0.02 | 0.00 | 12.92 | 2.00 | 0.00 | 3.54 | 0.02 | 0.00 |
| 12.94 | 2.00 | 0.00 | 3.53 | 0.02 | 0.00 | 12.96 | 2.00 | 0.00 | 3.52 | 0.02 | 0.00 |
| 12.98 | 1.48 | 0.00 | 3.51 | 0.02 | 0.00 | 13.00 | 1.52 | 0.00 | 3.50 | 0.02 | 0.00 |
| 13.02 | 2.00 | 0.00 | 3.49 | 0.02 | 0.00 | 13.04 | 2.00 | 0.00 | 3.48 | 0.02 | 0.00 |
| 13.06 | 2.00 | 0.00 | 3.47 | 0.02 | 0.00 | 13.08 | 2.00 | 0.00 | 3.46 | 0.02 | 0.00 |
| 13.10 | 2.00 | 0.00 | 3.45 | 0.02 | 0.00 | 13.12 | 2.00 | 0.00 | 3.44 | 0.02 | 0.00 |
| 13.14 | 2.00 | 0.00 | 3.43 | 0.02 | 0.00 | 13.16 | 2.00 | 0.00 | 3.42 | 0.02 | 0.00 |
| 13.18 | 2.00 | 0.00 | 3.41 | 0.02 | 0.00 | 13.20 | 2.00 | 0.00 | 3.40 | 0.02 | 0.00 |
| 13.22 | 2.00 | 0.00 | 3.39 | 0.02 | 0.00 | 13.24 | 2.00 | 0.00 | 3.38 | 0.02 | 0.00 |
| 13.26 | 2.00 | 0.00 | 3.37 | 0.02 | 0.00 | 13.28 | 2.00 | 0.00 | 3.36 | 0.02 | 0.00 |
| 13.30 | 2.00 | 0.00 | 3.35 | 0.02 | 0.00 | 13.32 | 2.00 | 0.00 | 3.34 | 0.02 | 0.00 |
| 13.34 | 2.00 | 0.00 | 3.33 | 0.02 | 0.00 | 13.36 | 2.00 | 0.00 | 3.32 | 0.02 | 0.00 |
| 13.38 | 2.00 | 0.00 | 3.31 | 0.02 | 0.00 | 13.40 | 2.00 | 0.00 | 3.30 | 0.02 | 0.00 |
| 13.42 | 2.00 | 0.00 | 3.29 | 0.02 | 0.00 | 13.44 | 2.00 | 0.00 | 3.28 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 13.46 | 2.00 | 0.00 | 3.27 | 0.02 | 0.00 | 13.48 | 2.00 | 0.00 | 3.26 | 0.02 | 0.00 |
| 13.50 | 2.00 | 0.00 | 3.25 | 0.02 | 0.00 | 13.52 | 2.00 | 0.00 | 3.24 | 0.02 | 0.00 |
| 13.54 | 2.00 | 0.00 | 3.23 | 0.02 | 0.00 | 13.56 | 2.00 | 0.00 | 3.22 | 0.02 | 0.00 |
| 13.58 | 2.00 | 0.00 | 3.21 | 0.02 | 0.00 | 13.60 | 2.00 | 0.00 | 3.20 | 0.02 | 0.00 |
| 13.62 | 2.00 | 0.00 | 3.19 | 0.02 | 0.00 | 13.64 | 2.00 | 0.00 | 3.18 | 0.02 | 0.00 |
| 13.66 | 2.00 | 0.00 | 3.17 | 0.02 | 0.00 | 13.68 | 2.00 | 0.00 | 3.16 | 0.02 | 0.00 |
| 13.70 | 2.00 | 0.00 | 3.15 | 0.02 | 0.00 | 13.72 | 2.00 | 0.00 | 3.14 | 0.02 | 0.00 |
| 13.74 | 2.00 | 0.00 | 3.13 | 0.02 | 0.00 | 13.76 | 2.00 | 0.00 | 3.12 | 0.02 | 0.00 |
| 13.78 | 2.00 | 0.00 | 3.11 | 0.02 | 0.00 | 13.80 | 2.00 | 0.00 | 3.10 | 0.02 | 0.00 |
| 13.82 | 1.38 | 0.00 | 3.09 | 0.02 | 0.00 | 13.84 | 1.64 | 0.00 | 3.08 | 0.02 | 0.00 |
| 13.86 | 2.00 | 0.00 | 3.07 | 0.02 | 0.00 | 13.88 | 2.00 | 0.00 | 3.06 | 0.02 | 0.00 |
| 13.90 | 2.00 | 0.00 | 3.05 | 0.02 | 0.00 | 13.92 | 2.00 | 0.00 | 3.04 | 0.02 | 0.00 |
| 13.94 | 2.00 | 0.00 | 3.03 | 0.02 | 0.00 | 13.96 | 2.00 | 0.00 | 3.02 | 0.02 | 0.00 |
| 13.98 | 2.00 | 0.00 | 3.01 | 0.02 | 0.00 | 14.00 | 2.00 | 0.00 | 3.00 | 0.02 | 0.00 |
| 14.02 | 2.00 | 0.00 | 2.99 | 0.02 | 0.00 | 14.04 | 2.00 | 0.00 | 2.98 | 0.02 | 0.00 |
| 14.06 | 2.00 | 0.00 | 2.97 | 0.02 | 0.00 | 14.08 | 2.00 | 0.00 | 2.96 | 0.02 | 0.00 |
| 14.10 | 2.00 | 0.00 | 2.95 | 0.02 | 0.00 | 14.12 | 2.00 | 0.00 | 2.94 | 0.02 | 0.00 |
| 14.14 | 2.00 | 0.00 | 2.93 | 0.02 | 0.00 | 14.16 | 2.00 | 0.00 | 2.92 | 0.02 | 0.00 |
| 14.18 | 2.00 | 0.00 | 2.91 | 0.02 | 0.00 | 14.20 | 2.00 | 0.00 | 2.90 | 0.02 | 0.00 |
| 14.22 | 2.00 | 0.00 | 2.89 | 0.02 | 0.00 | 14.24 | 2.00 | 0.00 | 2.88 | 0.02 | 0.00 |
| 14.26 | 2.00 | 0.00 | 2.87 | 0.02 | 0.00 | 14.28 | 2.00 | 0.00 | 2.86 | 0.02 | 0.00 |
| 14.30 | 2.00 | 0.00 | 2.85 | 0.02 | 0.00 | 14.32 | 2.00 | 0.00 | 2.84 | 0.02 | 0.00 |
| 14.34 | 2.00 | 0.00 | 2.83 | 0.02 | 0.00 | 14.36 | 2.00 | 0.00 | 2.82 | 0.02 | 0.00 |
| 14.38 | 2.00 | 0.00 | 2.81 | 0.02 | 0.00 | 14.40 | 2.00 | 0.00 | 2.80 | 0.02 | 0.00 |
| 14.42 | 2.00 | 0.00 | 2.79 | 0.02 | 0.00 | 14.44 | 2.00 | 0.00 | 2.78 | 0.02 | 0.00 |
| 14.46 | 2.00 | 0.00 | 2.77 | 0.02 | 0.00 | 14.48 | 2.00 | 0.00 | 2.76 | 0.02 | 0.00 |
| 14.50 | 2.00 | 0.00 | 2.75 | 0.02 | 0.00 | 14.52 | 2.00 | 0.00 | 2.74 | 0.02 | 0.00 |
| 14.54 | 1.65 | 0.00 | 2.73 | 0.02 | 0.00 | 14.56 | 1.80 | 0.00 | 2.72 | 0.02 | 0.00 |
| 14.58 | 1.97 | 0.00 | 2.71 | 0.02 | 0.00 | 14.60 | 1.98 | 0.00 | 2.70 | 0.02 | 0.00 |
| 14.62 | 1.81 | 0.00 | 2.69 | 0.02 | 0.00 | 14.64 | 1.60 | 0.00 | 2.68 | 0.02 | 0.00 |
| 14.66 | 1.51 | 0.00 | 2.67 | 0.02 | 0.00 | 14.68 | 1.65 | 0.00 | 2.66 | 0.02 | 0.00 |
| 14.70 | 1.87 | 0.00 | 2.65 | 0.02 | 0.00 | 14.72 | 2.00 | 0.00 | 2.64 | 0.02 | 0.00 |
| 14.74 | 2.00 | 0.00 | 2.63 | 0.02 | 0.00 | 14.76 | 2.00 | 0.00 | 2.62 | 0.02 | 0.00 |
| 14.78 | 2.00 | 0.00 | 2.61 | 0.02 | 0.00 | 14.80 | 2.00 | 0.00 | 2.60 | 0.02 | 0.00 |
| 14.82 | 2.00 | 0.00 | 2.59 | 0.02 | 0.00 | 14.84 | 2.00 | 0.00 | 2.58 | 0.02 | 0.00 |
| 14.86 | 2.00 | 0.00 | 2.57 | 0.02 | 0.00 | 14.88 | 2.00 | 0.00 | 2.56 | 0.02 | 0.00 |
| 14.90 | 2.00 | 0.00 | 2.55 | 0.02 | 0.00 | 14.92 | 1.92 | 0.00 | 2.54 | 0.02 | 0.00 |
| 14.94 | 1.91 | 0.00 | 2.53 | 0.02 | 0.00 | 14.96 | 1.90 | 0.00 | 2.52 | 0.02 | 0.00 |
| 14.98 | 2.00 | 0.00 | 2.51 | 0.02 | 0.00 | 15.00 | 2.00 | 0.00 | 2.50 | 0.02 | 0.00 |
| 15.02 | 2.00 | 0.00 | 2.49 | 0.02 | 0.00 | 15.04 | 2.00 | 0.00 | 2.48 | 0.02 | 0.00 |
| 15.06 | 2.00 | 0.00 | 2.47 | 0.02 | 0.00 | 15.08 | 2.00 | 0.00 | 2.46 | 0.02 | 0.00 |
| 15.10 | 2.00 | 0.00 | 2.45 | 0.02 | 0.00 | 15.12 | 2.00 | 0.00 | 2.44 | 0.02 | 0.00 |
| 15.14 | 2.00 | 0.00 | 2.43 | 0.02 | 0.00 | 15.16 | 2.00 | 0.00 | 2.42 | 0.02 | 0.00 |
| 15.18 | 2.00 | 0.00 | 2.41 | 0.02 | 0.00 | 15.20 | 2.00 | 0.00 | 2.40 | 0.02 | 0.00 |
| 15.22 | 2.00 | 0.00 | 2.39 | 0.02 | 0.00 | 15.24 | 2.00 | 0.00 | 2.38 | 0.02 | 0.00 |
| 15.26 | 2.00 | 0.00 | 2.37 | 0.02 | 0.00 | 15.28 | 2.00 | 0.00 | 2.36 | 0.02 | 0.00 |
| 15.30 | 2.00 | 0.00 | 2.35 | 0.02 | 0.00 | 15.32 | 2.00 | 0.00 | 2.34 | 0.02 | 0.00 |
| 15.34 | 2.00 | 0.00 | 2.33 | 0.02 | 0.00 | 15.36 | 2.00 | 0.00 | 2.32 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 15.38 | 2.00 | 0.00 | 2.31 | 0.02 | 0.00 | 15.40 | 2.00 | 0.00 | 2.30 | 0.02 | 0.00 |
| 15.42 | 2.00 | 0.00 | 2.29 | 0.02 | 0.00 | 15.44 | 2.00 | 0.00 | 2.28 | 0.02 | 0.00 |
| 15.46 | 2.00 | 0.00 | 2.27 | 0.02 | 0.00 | 15.48 | 2.00 | 0.00 | 2.26 | 0.02 | 0.00 |
| 15.50 | 1.98 | 0.00 | 2.25 | 0.02 | 0.00 | 15.52 | 1.97 | 0.00 | 2.24 | 0.02 | 0.00 |
| 15.54 | 1.95 | 0.00 | 2.23 | 0.02 | 0.00 | 15.56 | 1.94 | 0.00 | 2.22 | 0.02 | 0.00 |
| 15.58 | 1.94 | 0.00 | 2.21 | 0.02 | 0.00 | 15.60 | 1.95 | 0.00 | 2.20 | 0.02 | 0.00 |
| 15.62 | 1.95 | 0.00 | 2.19 | 0.02 | 0.00 | 15.64 | 1.95 | 0.00 | 2.18 | 0.02 | 0.00 |
| 15.66 | 1.95 | 0.00 | 2.17 | 0.02 | 0.00 | 15.68 | 1.97 | 0.00 | 2.16 | 0.02 | 0.00 |
| 15.70 | 2.00 | 0.00 | 2.15 | 0.02 | 0.00 | 15.72 | 2.00 | 0.00 | 2.14 | 0.02 | 0.00 |
| 15.74 | 2.00 | 0.00 | 2.13 | 0.02 | 0.00 | 15.76 | 2.00 | 0.00 | 2.12 | 0.02 | 0.00 |
| 15.78 | 2.00 | 0.00 | 2.11 | 0.02 | 0.00 | 15.80 | 2.00 | 0.00 | 2.10 | 0.02 | 0.00 |
| 15.82 | 1.98 | 0.00 | 2.09 | 0.02 | 0.00 | 15.84 | 1.95 | 0.00 | 2.08 | 0.02 | 0.00 |
| 15.86 | 1.95 | 0.00 | 2.07 | 0.02 | 0.00 | 15.88 | 2.00 | 0.00 | 2.06 | 0.02 | 0.00 |
| 15.90 | 2.00 | 0.00 | 2.05 | 0.02 | 0.00 | 15.92 | 2.00 | 0.00 | 2.04 | 0.02 | 0.00 |
| 15.94 | 2.00 | 0.00 | 2.03 | 0.02 | 0.00 | 15.96 | 2.00 | 0.00 | 2.02 | 0.02 | 0.00 |
| 15.98 | 2.00 | 0.00 | 2.01 | 0.02 | 0.00 | 16.00 | 2.00 | 0.00 | 2.00 | 0.02 | 0.00 |
| 16.02 | 2.00 | 0.00 | 1.99 | 0.02 | 0.00 | 16.04 | 2.00 | 0.00 | 1.98 | 0.02 | 0.00 |
| 16.06 | 2.00 | 0.00 | 1.97 | 0.02 | 0.00 | 16.08 | 2.00 | 0.00 | 1.96 | 0.02 | 0.00 |
| 16.10 | 2.00 | 0.00 | 1.95 | 0.02 | 0.00 | 16.12 | 2.00 | 0.00 | 1.94 | 0.02 | 0.00 |
| 16.14 | 2.00 | 0.00 | 1.93 | 0.02 | 0.00 | 16.16 | 2.00 | 0.00 | 1.92 | 0.02 | 0.00 |
| 16.18 | 2.00 | 0.00 | 1.91 | 0.02 | 0.00 | 16.20 | 2.00 | 0.00 | 1.90 | 0.02 | 0.00 |
| 16.22 | 2.00 | 0.00 | 1.89 | 0.02 | 0.00 | 16.24 | 2.00 | 0.00 | 1.88 | 0.02 | 0.00 |
| 16.26 | 2.00 | 0.00 | 1.87 | 0.02 | 0.00 | 16.28 | 2.00 | 0.00 | 1.86 | 0.02 | 0.00 |
| 16.30 | 2.00 | 0.00 | 1.85 | 0.02 | 0.00 | 16.32 | 2.00 | 0.00 | 1.84 | 0.02 | 0.00 |
| 16.34 | 2.00 | 0.00 | 1.83 | 0.02 | 0.00 | 16.36 | 2.00 | 0.00 | 1.82 | 0.02 | 0.00 |
| 16.38 | 2.00 | 0.00 | 1.81 | 0.02 | 0.00 | 16.40 | 2.00 | 0.00 | 1.80 | 0.02 | 0.00 |
| 16.42 | 2.00 | 0.00 | 1.79 | 0.02 | 0.00 | 16.44 | 2.00 | 0.00 | 1.78 | 0.02 | 0.00 |
| 16.46 | 2.00 | 0.00 | 1.77 | 0.02 | 0.00 | 16.48 | 2.00 | 0.00 | 1.76 | 0.02 | 0.00 |
| 16.50 | 2.00 | 0.00 | 1.75 | 0.02 | 0.00 | 16.52 | 2.00 | 0.00 | 1.74 | 0.02 | 0.00 |
| 16.54 | 2.00 | 0.00 | 1.73 | 0.02 | 0.00 | 16.56 | 2.00 | 0.00 | 1.72 | 0.02 | 0.00 |
| 16.58 | 2.00 | 0.00 | 1.71 | 0.02 | 0.00 | 16.60 | 2.00 | 0.00 | 1.70 | 0.02 | 0.00 |
| 16.62 | 2.00 | 0.00 | 1.69 | 0.02 | 0.00 | 16.64 | 2.00 | 0.00 | 1.68 | 0.02 | 0.00 |
| 16.66 | 2.00 | 0.00 | 1.67 | 0.02 | 0.00 | 16.68 | 2.00 | 0.00 | 1.66 | 0.02 | 0.00 |
| 16.70 | 2.00 | 0.00 | 1.65 | 0.02 | 0.00 | 16.72 | 2.00 | 0.00 | 1.64 | 0.02 | 0.00 |
| 16.74 | 2.00 | 0.00 | 1.63 | 0.02 | 0.00 | 16.76 | 2.00 | 0.00 | 1.62 | 0.02 | 0.00 |
| 16.78 | 2.00 | 0.00 | 1.61 | 0.02 | 0.00 | 16.80 | 2.00 | 0.00 | 1.60 | 0.02 | 0.00 |
| 16.82 | 2.00 | 0.00 | 1.59 | 0.02 | 0.00 | 16.84 | 2.00 | 0.00 | 1.58 | 0.02 | 0.00 |
| 16.86 | 2.00 | 0.00 | 1.57 | 0.02 | 0.00 | 16.88 | 2.00 | 0.00 | 1.56 | 0.02 | 0.00 |
| 16.90 | 2.00 | 0.00 | 1.55 | 0.02 | 0.00 | 16.92 | 2.00 | 0.00 | 1.54 | 0.02 | 0.00 |
| 16.94 | 2.00 | 0.00 | 1.53 | 0.02 | 0.00 | 16.96 | 2.00 | 0.00 | 1.52 | 0.02 | 0.00 |
| 16.98 | 2.00 | 0.00 | 1.51 | 0.02 | 0.00 | 17.00 | 2.00 | 0.00 | 1.50 | 0.02 | 0.00 |
| 17.02 | 2.00 | 0.00 | 1.49 | 0.02 | 0.00 | 17.04 | 2.00 | 0.00 | 1.48 | 0.02 | 0.00 |
| 17.06 | 2.00 | 0.00 | 1.47 | 0.02 | 0.00 | 17.08 | 2.00 | 0.00 | 1.46 | 0.02 | 0.00 |
| 17.10 | 2.00 | 0.00 | 1.45 | 0.02 | 0.00 | 17.12 | 2.00 | 0.00 | 1.44 | 0.02 | 0.00 |
| 17.14 | 2.00 | 0.00 | 1.43 | 0.02 | 0.00 | 17.16 | 2.00 | 0.00 | 1.42 | 0.02 | 0.00 |
| 17.18 | 2.00 | 0.00 | 1.41 | 0.02 | 0.00 | 17.20 | 2.00 | 0.00 | 1.40 | 0.02 | 0.00 |
| 17.22 | 2.00 | 0.00 | 1.39 | 0.02 | 0.00 | 17.24 | 2.00 | 0.00 | 1.38 | 0.02 | 0.00 |
| 17.26 | 2.00 | 0.00 | 1.37 | 0.02 | 0.00 | 17.28 | 2.00 | 0.00 | 1.36 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 17.30 | 2.00 | 0.00 | 1.35 | 0.02 | 0.00 | 17.32 | 2.00 | 0.00 | 1.34 | 0.02 | 0.00 |
| 17.34 | 2.00 | 0.00 | 1.33 | 0.02 | 0.00 | 17.36 | 2.00 | 0.00 | 1.32 | 0.02 | 0.00 |
| 17.38 | 2.00 | 0.00 | 1.31 | 0.02 | 0.00 | 17.40 | 2.00 | 0.00 | 1.30 | 0.02 | 0.00 |
| 17.42 | 2.00 | 0.00 | 1.29 | 0.02 | 0.00 | 17.44 | 2.00 | 0.00 | 1.28 | 0.02 | 0.00 |
| 17.46 | 2.00 | 0.00 | 1.27 | 0.02 | 0.00 | 17.48 | 2.00 | 0.00 | 1.26 | 0.02 | 0.00 |
| 17.50 | 2.00 | 0.00 | 1.25 | 0.02 | 0.00 | 17.52 | 2.00 | 0.00 | 1.24 | 0.02 | 0.00 |
| 17.54 | 2.00 | 0.00 | 1.23 | 0.02 | 0.00 | 17.56 | 2.00 | 0.00 | 1.22 | 0.02 | 0.00 |
| 17.58 | 2.00 | 0.00 | 1.21 | 0.02 | 0.00 | 17.60 | 2.00 | 0.00 | 1.20 | 0.02 | 0.00 |
| 17.62 | 2.00 | 0.00 | 1.19 | 0.02 | 0.00 | 17.64 | 2.00 | 0.00 | 1.18 | 0.02 | 0.00 |
| 17.66 | 2.00 | 0.00 | 1.17 | 0.02 | 0.00 | 17.68 | 2.00 | 0.00 | 1.16 | 0.02 | 0.00 |
| 17.70 | 2.00 | 0.00 | 1.15 | 0.02 | 0.00 | 17.72 | 2.00 | 0.00 | 1.14 | 0.02 | 0.00 |
| 17.74 | 1.94 | 0.00 | 1.13 | 0.02 | 0.00 | 17.76 | 1.86 | 0.00 | 1.12 | 0.02 | 0.00 |
| 17.78 | 1.86 | 0.00 | 1.11 | 0.02 | 0.00 | 17.80 | 1.95 | 0.00 | 1.10 | 0.02 | 0.00 |
| 17.82 | 2.00 | 0.00 | 1.09 | 0.02 | 0.00 | 17.84 | 2.00 | 0.00 | 1.08 | 0.02 | 0.00 |
| 17.86 | 2.00 | 0.00 | 1.07 | 0.02 | 0.00 | 17.88 | 2.00 | 0.00 | 1.06 | 0.02 | 0.00 |
| 17.90 | 2.00 | 0.00 | 1.05 | 0.02 | 0.00 | 17.92 | 2.00 | 0.00 | 1.04 | 0.02 | 0.00 |
| 17.94 | 2.00 | 0.00 | 1.03 | 0.02 | 0.00 | 17.96 | 2.00 | 0.00 | 1.02 | 0.02 | 0.00 |
| 17.98 | 2.00 | 0.00 | 1.01 | 0.02 | 0.00 | 18.00 | 2.00 | 0.00 | 1.00 | 0.02 | 0.00 |
| 18.02 | 2.00 | 0.00 | 0.99 | 0.02 | 0.00 | 18.04 | 2.00 | 0.00 | 0.98 | 0.02 | 0.00 |
| 18.06 | 2.00 | 0.00 | 0.97 | 0.02 | 0.00 | 18.08 | 2.00 | 0.00 | 0.96 | 0.02 | 0.00 |
| 18.10 | 2.00 | 0.00 | 0.95 | 0.02 | 0.00 | 18.12 | 2.00 | 0.00 | 0.94 | 0.02 | 0.00 |
| 18.14 | 2.00 | 0.00 | 0.93 | 0.02 | 0.00 | 18.16 | 2.00 | 0.00 | 0.92 | 0.02 | 0.00 |
| 18.18 | 2.00 | 0.00 | 0.91 | 0.02 | 0.00 | 18.20 | 2.00 | 0.00 | 0.90 | 0.02 | 0.00 |
| 18.22 | 2.00 | 0.00 | 0.89 | 0.02 | 0.00 | 18.24 | 2.00 | 0.00 | 0.88 | 0.02 | 0.00 |
| 18.26 | 2.00 | 0.00 | 0.87 | 0.02 | 0.00 | 18.28 | 2.00 | 0.00 | 0.86 | 0.02 | 0.00 |
| 18.30 | 2.00 | 0.00 | 0.85 | 0.02 | 0.00 | 18.32 | 2.00 | 0.00 | 0.84 | 0.02 | 0.00 |
| 18.34 | 2.00 | 0.00 | 0.83 | 0.02 | 0.00 | 18.36 | 2.00 | 0.00 | 0.82 | 0.02 | 0.00 |
| 18.38 | 2.00 | 0.00 | 0.81 | 0.02 | 0.00 | 18.40 | 2.00 | 0.00 | 0.80 | 0.02 | 0.00 |
| 18.42 | 2.00 | 0.00 | 0.79 | 0.02 | 0.00 | 18.44 | 2.00 | 0.00 | 0.78 | 0.02 | 0.00 |
| 18.46 | 2.00 | 0.00 | 0.77 | 0.02 | 0.00 | 18.48 | 2.00 | 0.00 | 0.76 | 0.02 | 0.00 |
| 18.50 | 2.00 | 0.00 | 0.75 | 0.02 | 0.00 | 18.52 | 2.00 | 0.00 | 0.74 | 0.02 | 0.00 |
| 18.54 | 2.00 | 0.00 | 0.73 | 0.02 | 0.00 | 18.56 | 2.00 | 0.00 | 0.72 | 0.02 | 0.00 |
| 18.58 | 2.00 | 0.00 | 0.71 | 0.02 | 0.00 | 18.60 | 2.00 | 0.00 | 0.70 | 0.02 | 0.00 |
| 18.62 | 2.00 | 0.00 | 0.69 | 0.02 | 0.00 | 18.64 | 2.00 | 0.00 | 0.68 | 0.02 | 0.00 |
| 18.66 | 2.00 | 0.00 | 0.67 | 0.02 | 0.00 | 18.68 | 2.00 | 0.00 | 0.66 | 0.02 | 0.00 |
| 18.70 | 2.00 | 0.00 | 0.65 | 0.02 | 0.00 | 18.72 | 2.00 | 0.00 | 0.64 | 0.02 | 0.00 |
| 18.74 | 2.00 | 0.00 | 0.63 | 0.02 | 0.00 | 18.76 | 2.00 | 0.00 | 0.62 | 0.02 | 0.00 |
| 18.78 | 2.00 | 0.00 | 0.61 | 0.02 | 0.00 | 18.80 | 2.00 | 0.00 | 0.60 | 0.02 | 0.00 |
| 18.82 | 2.00 | 0.00 | 0.59 | 0.02 | 0.00 | 18.84 | 2.00 | 0.00 | 0.58 | 0.02 | 0.00 |
| 18.86 | 2.00 | 0.00 | 0.57 | 0.02 | 0.00 | 18.88 | 2.00 | 0.00 | 0.56 | 0.02 | 0.00 |
| 18.90 | 2.00 | 0.00 | 0.55 | 0.02 | 0.00 | 18.92 | 2.00 | 0.00 | 0.54 | 0.02 | 0.00 |
| 18.94 | 2.00 | 0.00 | 0.53 | 0.02 | 0.00 | 18.96 | 2.00 | 0.00 | 0.52 | 0.02 | 0.00 |
| 18.98 | 2.00 | 0.00 | 0.51 | 0.02 | 0.00 | 19.00 | 2.00 | 0.00 | 0.50 | 0.02 | 0.00 |
| 19.02 | 2.00 | 0.00 | 0.49 | 0.02 | 0.00 | 19.04 | 2.00 | 0.00 | 0.48 | 0.02 | 0.00 |
| 19.06 | 2.00 | 0.00 | 0.47 | 0.02 | 0.00 | 19.08 | 2.00 | 0.00 | 0.46 | 0.02 | 0.00 |
| 19.10 | 2.00 | 0.00 | 0.45 | 0.02 | 0.00 | 19.12 | 2.00 | 0.00 | 0.44 | 0.02 | 0.00 |
| 19.14 | 2.00 | 0.00 | 0.43 | 0.02 | 0.00 | 19.16 | 2.00 | 0.00 | 0.42 | 0.02 | 0.00 |
| 19.18 | 2.00 | 0.00 | 0.41 | 0.02 | 0.00 | 19.20 | 2.00 | 0.00 | 0.40 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 19.22 | 2.00 | 0.00 | 0.39 | 0.02 | 0.00 | 19.24 | 2.00 | 0.00 | 0.38 | 0.02 | 0.00 |
| 19.26 | 2.00 | 0.00 | 0.37 | 0.02 | 0.00 | 19.28 | 2.00 | 0.00 | 0.36 | 0.02 | 0.00 |
| 19.30 | 2.00 | 0.00 | 0.35 | 0.02 | 0.00 | 19.32 | 2.00 | 0.00 | 0.34 | 0.02 | 0.00 |
| 19.34 | 2.00 | 0.00 | 0.33 | 0.02 | 0.00 | 19.36 | 2.00 | 0.00 | 0.32 | 0.02 | 0.00 |
| 19.38 | 2.00 | 0.00 | 0.31 | 0.02 | 0.00 | 19.40 | 2.00 | 0.00 | 0.30 | 0.02 | 0.00 |
| 19.42 | 2.00 | 0.00 | 0.29 | 0.02 | 0.00 | 19.44 | 2.00 | 0.00 | 0.28 | 0.02 | 0.00 |
| 19.46 | 2.00 | 0.00 | 0.27 | 0.02 | 0.00 | 19.48 | 2.00 | 0.00 | 0.26 | 0.02 | 0.00 |
| 19.50 | 2.00 | 0.00 | 0.25 | 0.02 | 0.00 | 19.52 | 2.00 | 0.00 | 0.24 | 0.02 | 0.00 |
| 19.54 | 2.00 | 0.00 | 0.23 | 0.02 | 0.00 | 19.56 | 2.00 | 0.00 | 0.22 | 0.02 | 0.00 |
| 19.58 | 2.00 | 0.00 | 0.21 | 0.02 | 0.00 | 19.60 | 2.00 | 0.00 | 0.20 | 0.02 | 0.00 |
| 19.62 | 2.00 | 0.00 | 0.19 | 0.02 | 0.00 | 19.64 | 2.00 | 0.00 | 0.18 | 0.02 | 0.00 |
| 19.66 | 2.00 | 0.00 | 0.17 | 0.02 | 0.00 | 19.68 | 2.00 | 0.00 | 0.16 | 0.02 | 0.00 |
| 19.70 | 2.00 | 0.00 | 0.15 | 0.02 | 0.00 | 19.72 | 2.00 | 0.00 | 0.14 | 0.02 | 0.00 |
| 19.74 | 2.00 | 0.00 | 0.13 | 0.02 | 0.00 | 19.76 | 2.00 | 0.00 | 0.12 | 0.02 | 0.00 |
| 19.78 | 2.00 | 0.00 | 0.11 | 0.02 | 0.00 | 19.80 | 2.00 | 0.00 | 0.10 | 0.02 | 0.00 |
| 19.82 | 2.00 | 0.00 | 0.09 | 0.02 | 0.00 | 19.84 | 2.00 | 0.00 | 0.08 | 0.02 | 0.00 |
| 19.86 | 2.00 | 0.00 | 0.07 | 0.02 | 0.00 | 19.88 | 2.00 | 0.00 | 0.06 | 0.02 | 0.00 |
| 19.90 | 2.00 | 0.00 | 0.05 | 0.02 | 0.00 | | | | | | |

Overall liquefaction potential: 0.00

LPI = 0.00 - Liquefaction risk very low

LPI between 0.00 and 5.00 - Liquefaction risk low

LPI between 5.00 and 15.00 - Liquefaction risk high

LPI > 15.00 - Liquefaction risk very high

Abbreviations

FS: Calculated factor of safety for test point

F_L: 1 - FSw_z: Function value of the extend of soil liquefaction according to depthd_z: Layer thickness (m)

LPI: Liquefaction potential index value for test point

LIQUEFACTION ANALYSIS REPORT

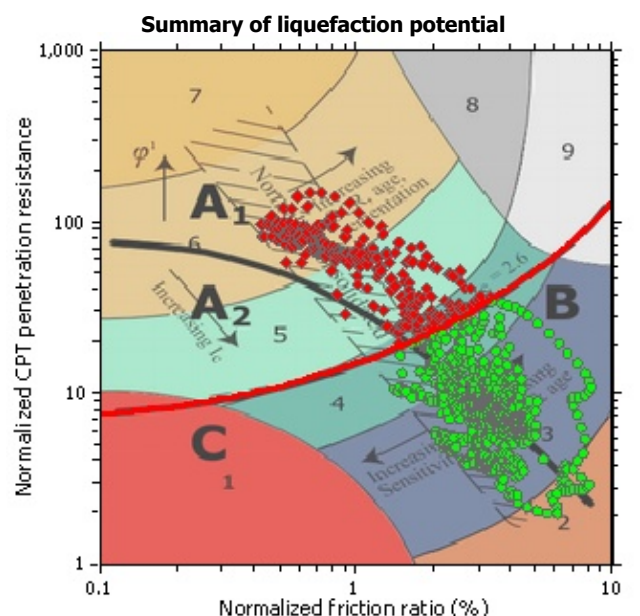
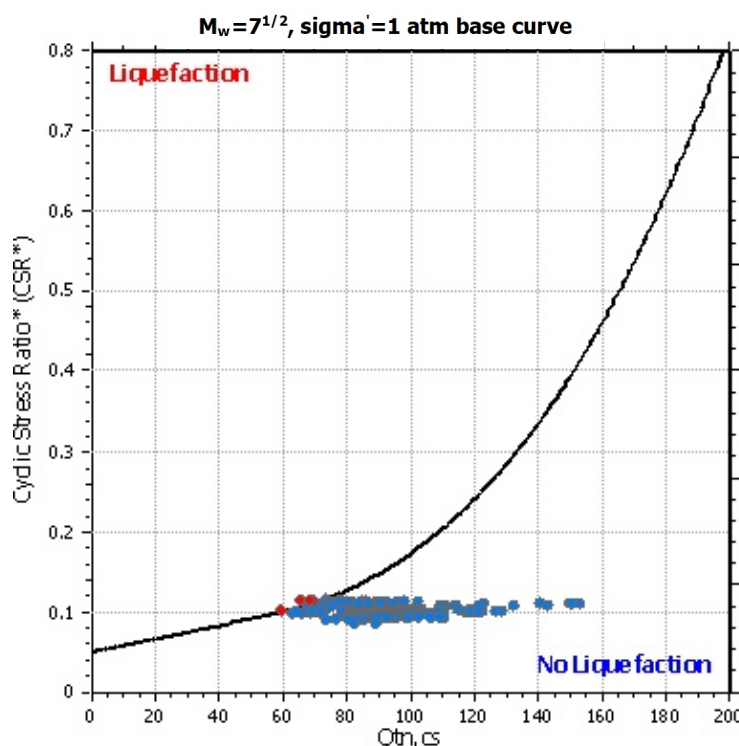
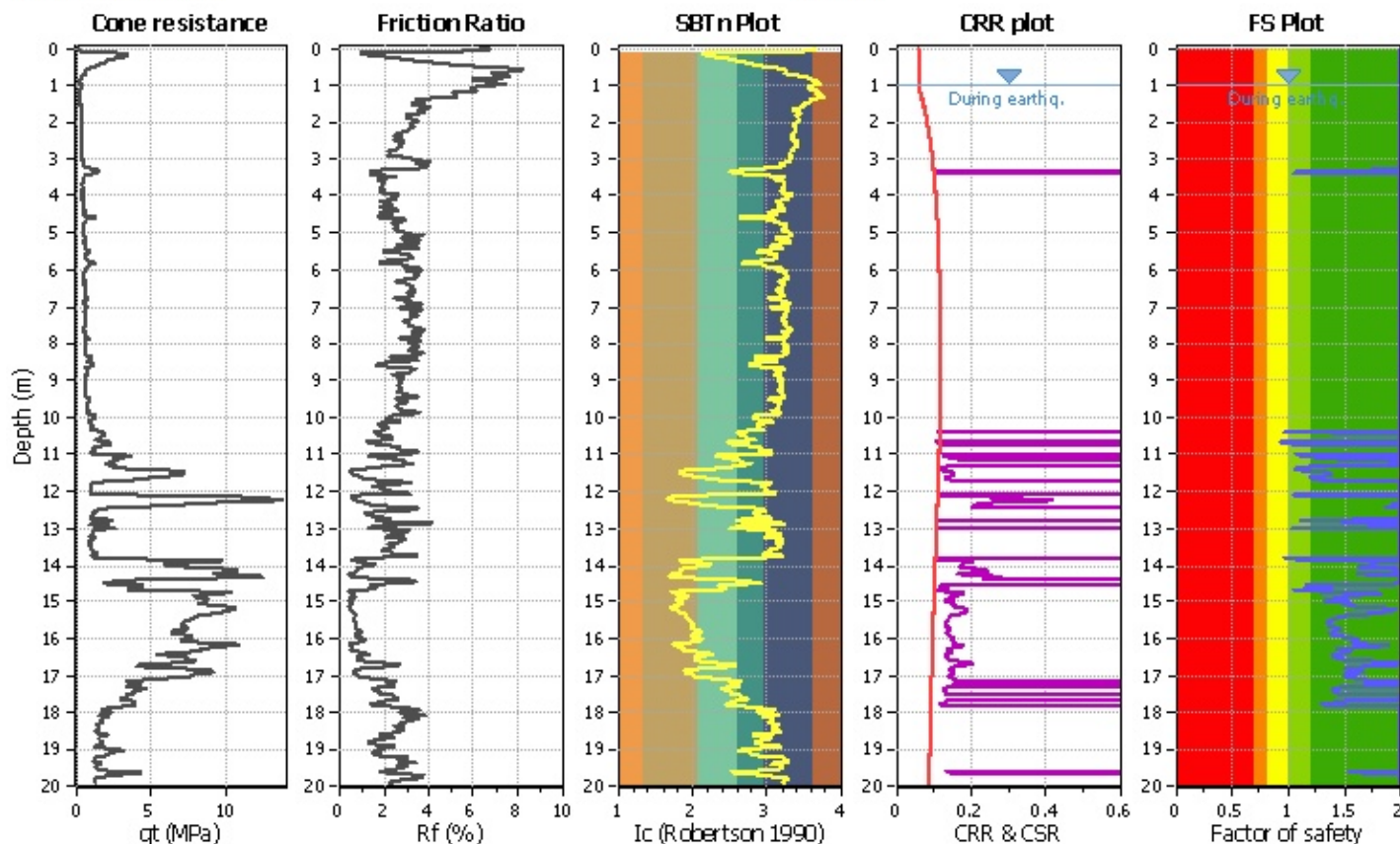
Project title :

Location :

CPT file : CPTU1

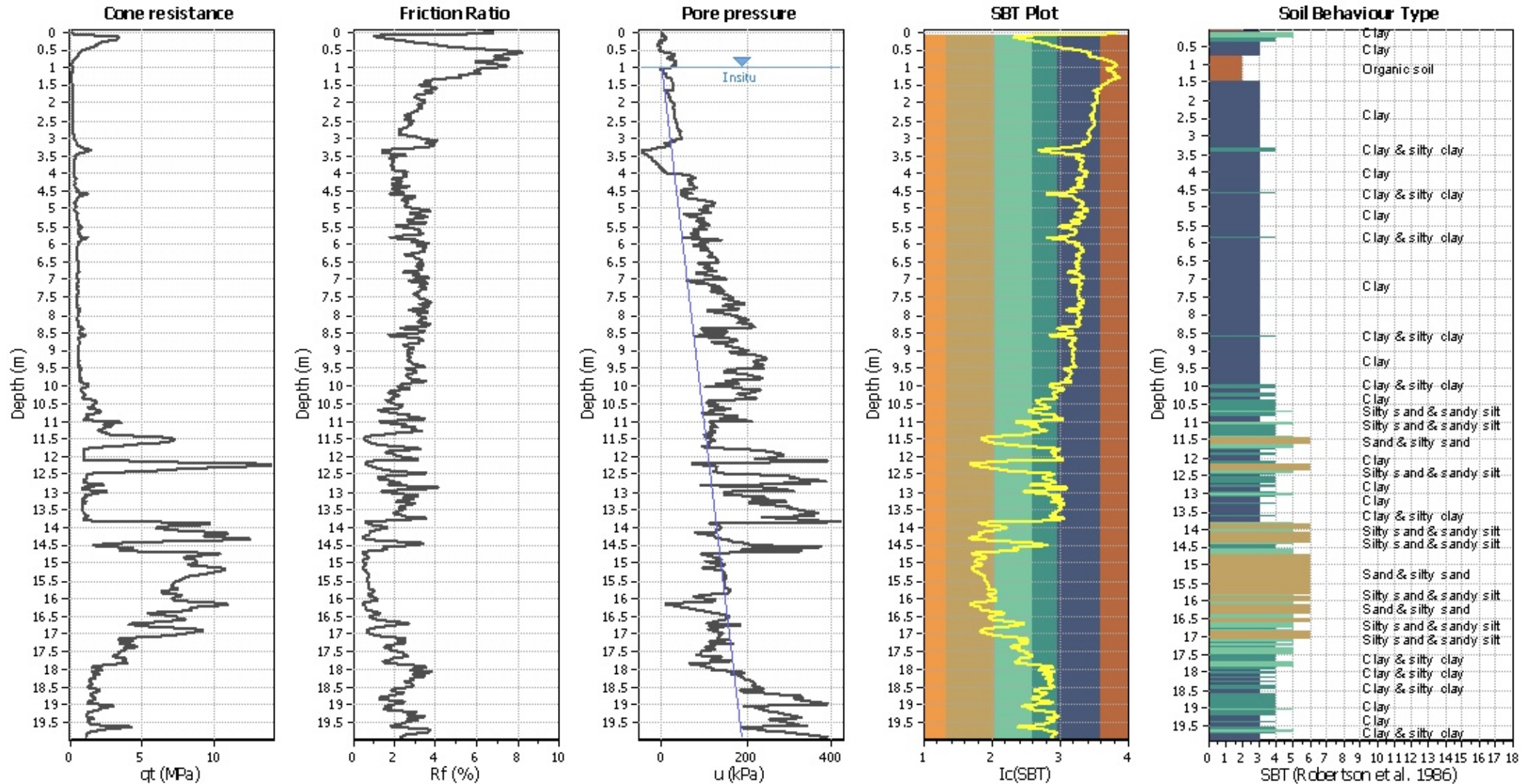
Input parameters and analysis data

| | | | | | | | |
|------------------------------|-------------------|---------------------------|--------------|-------------------------|-----|----------------------|--------------|
| Analysis method: | NCEER (1998) | G.W.T. (in-situ): | 1.00 m | Use fill: | No | Clay like behavior | |
| Fines correction method: | NCEER (1998) | G.W.T. (earthq.): | 1.00 m | Fill height: | N/A | applied: | Sands only |
| Points to test: | Based on Ic value | Average results interval: | 3 | Fill weight: | N/A | Limit depth applied: | No |
| Earthquake magnitude M_w : | 5.75 | Ic cut-off value: | 2.60 | Trans. detect. applied: | No | Limit depth: | N/A |
| Peak ground acceleration: | 0.17 | Unit weight calculation: | Based on SBT | K_0 applied: | Yes | MSF method: | Method based |



Zone A₁: Cyclic liquefaction likely depending on size and duration of cyclic loading
 Zone A₂: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
 Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
 Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

CPT basic interpretation plo



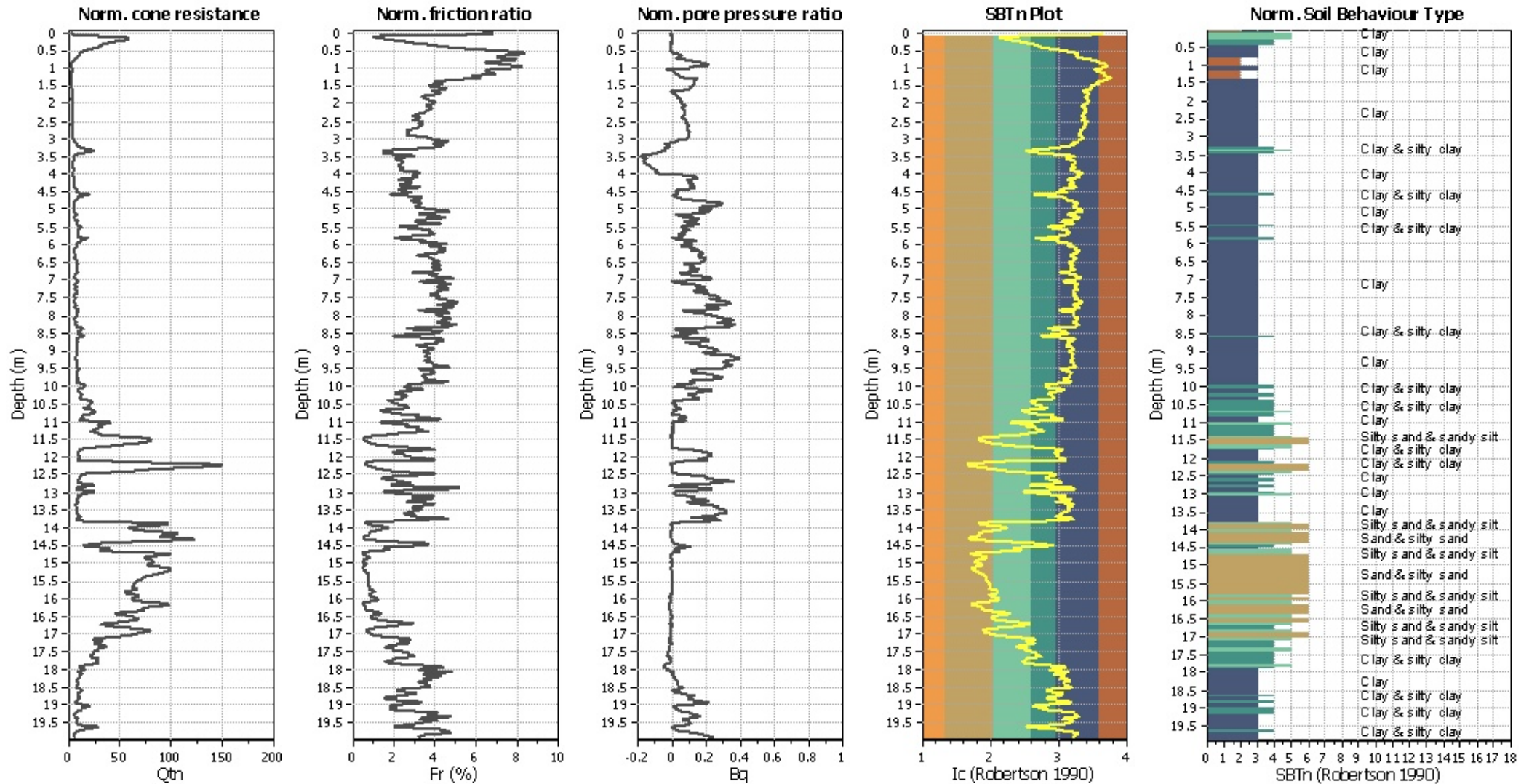
Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 5.75 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

SBT legend

| | | |
|---------------------------|-----------------------------|----------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty | 7. Gravely sand to sand |
| 2. Organic material | 5. Silty sand to sandy silt | 8. Very stiff sand to |
| 3. Clay to silty clay | 6. Clean sand to silty sand | 9. Very stiff fine grained |

CPT basic interpretation plots (normaliz



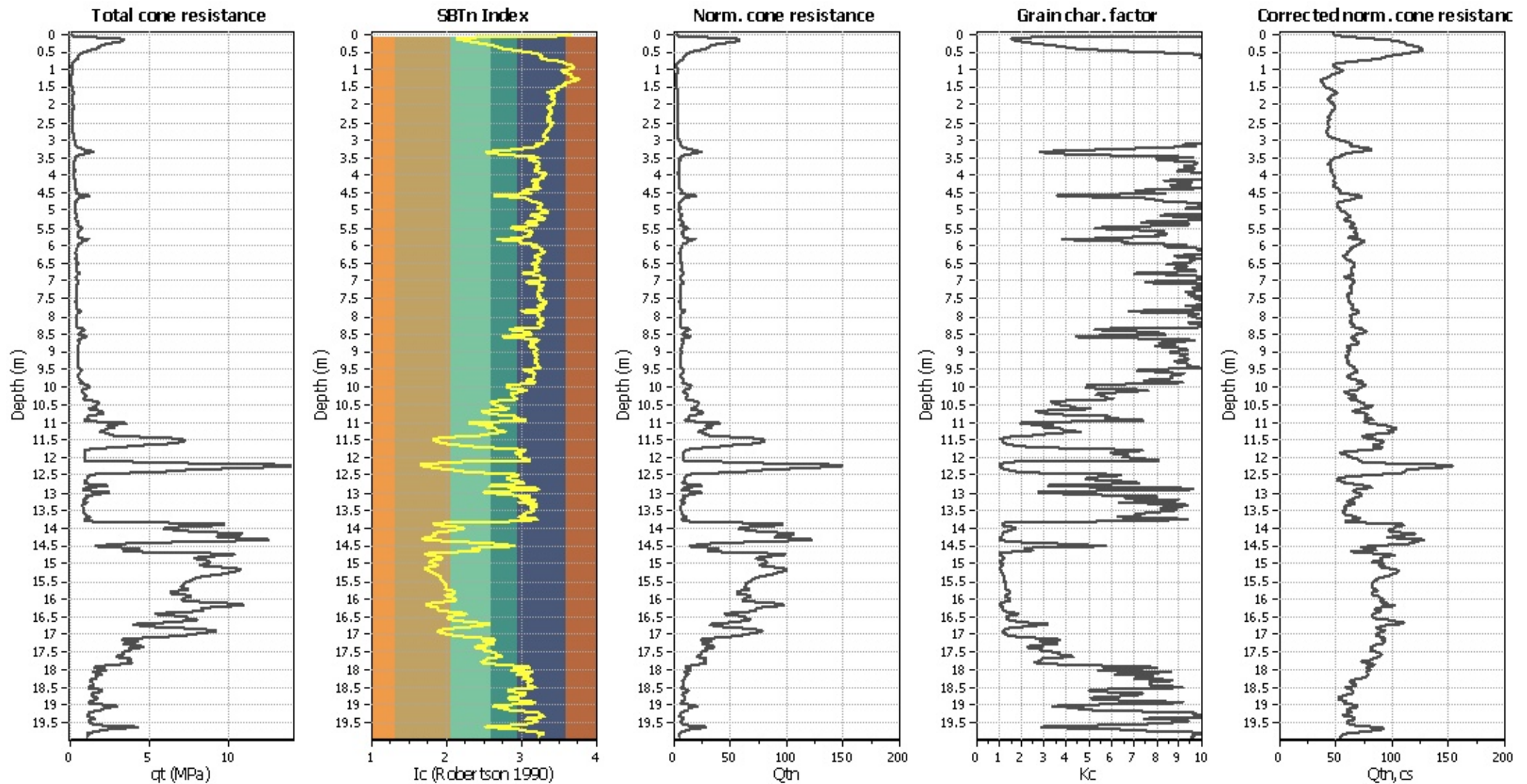
Input parameters and analysis data

| | | | | | |
|---------------------------------------|-------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K ₀ applied: | Yes |
| Earthquake magnitude M _w : | 5.75 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

SBTn legend

| | | |
|---------------------------|-----------------------------|----------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty | 7. Gravely sand to sand |
| 2. Organic material | 5. Silty sand to sandy silt | 8. Very stiff sand to |
| 3. Clay to silty clay | 6. Clean sand to silty sand | 9. Very stiff fine grained |

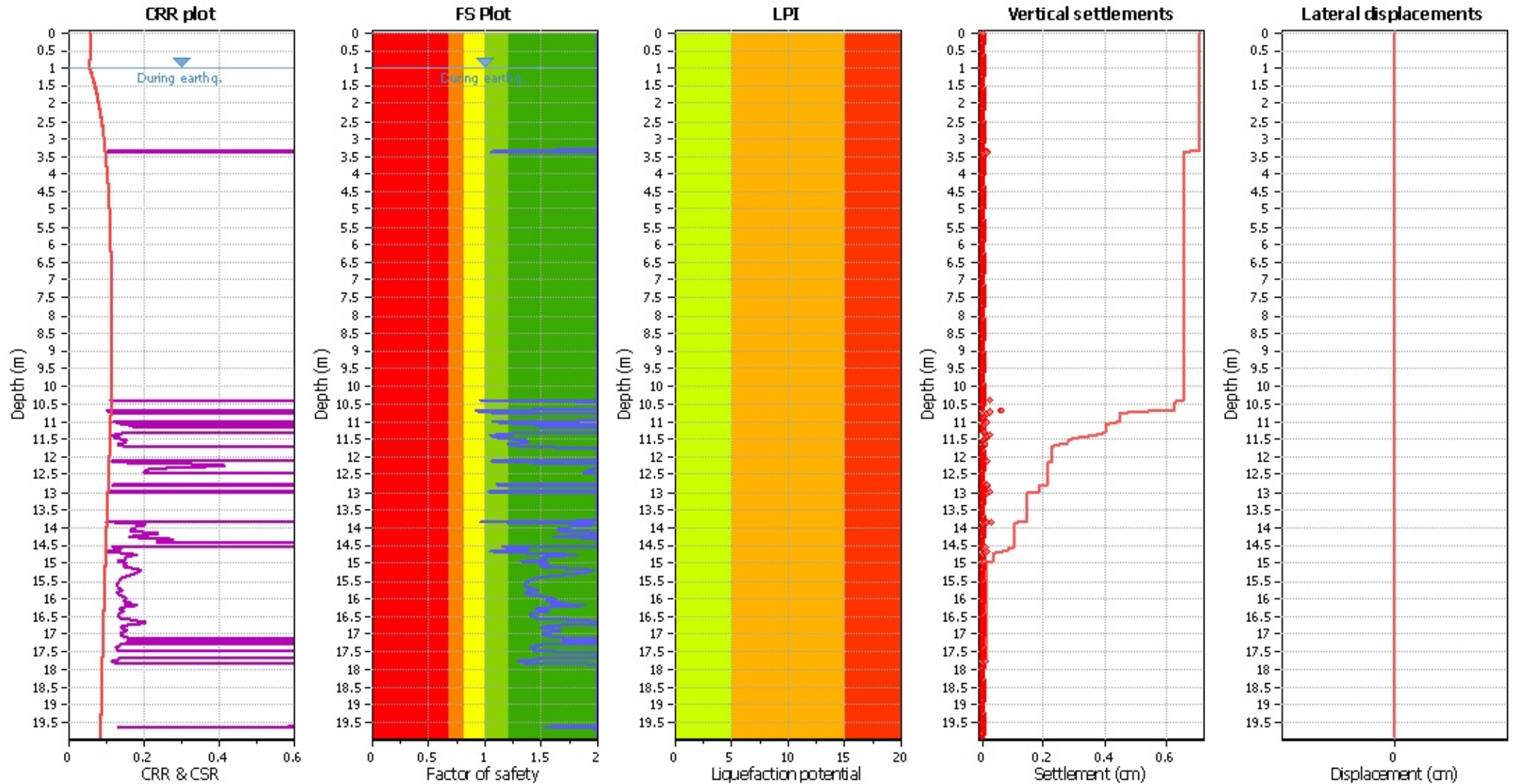
Liquefaction analysis overall plots (intermediate res)



Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_{σ} applied: | Yes |
| Earthquake magnitude M_w : | 5.75 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

Liquefaction analysis overall plot



Input parameters and analysis data

| | | | | | |
|--------------------------------|-------------------|---------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (earthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 5.75 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

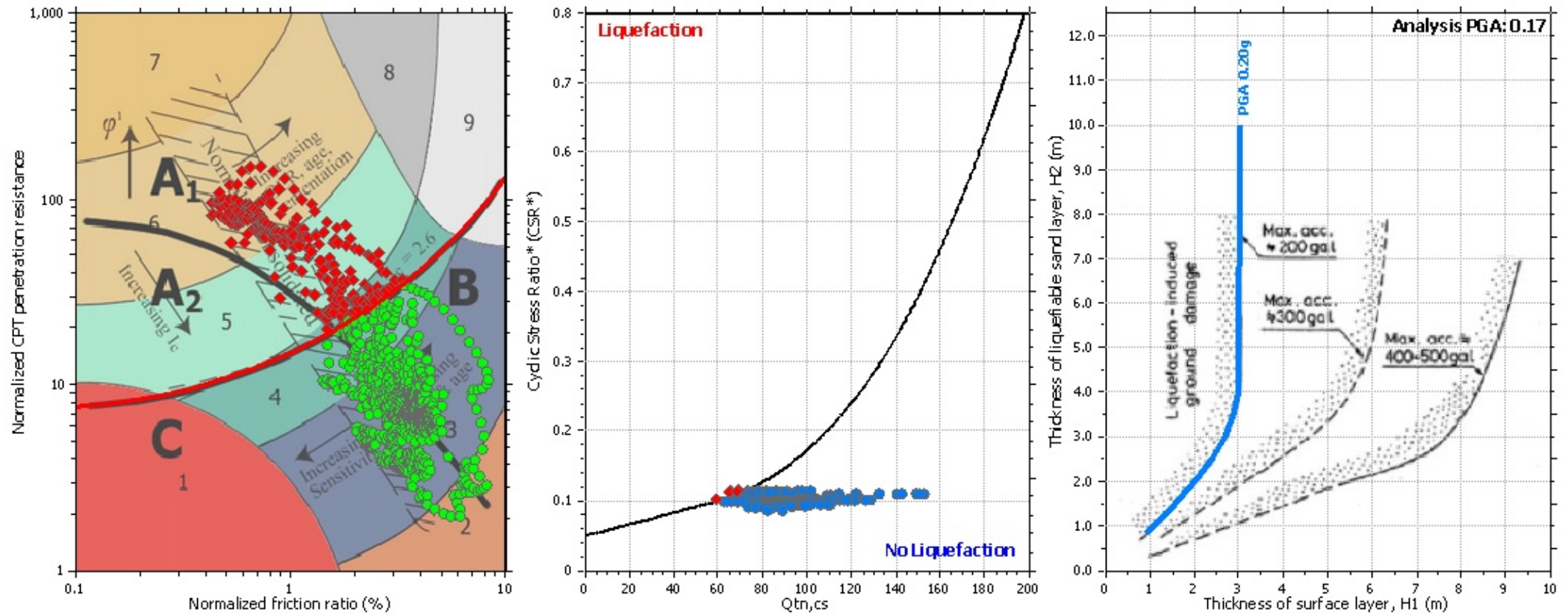
F.S. color scheme

| | |
|---|---|
| ■ | Almost certain it will liquefy |
| ■ | Very likely to liquefy |
| ■ | Liquefaction and no liq. are equally likely |
| ■ | Unlike to liquefy |
| ■ | Almost certain it will not liquefy |

LPI color scheme

| | |
|---------------------------------------|----------------|
| ■ | Very high risk |
| ■ | High risk |
| ■ | Low risk |

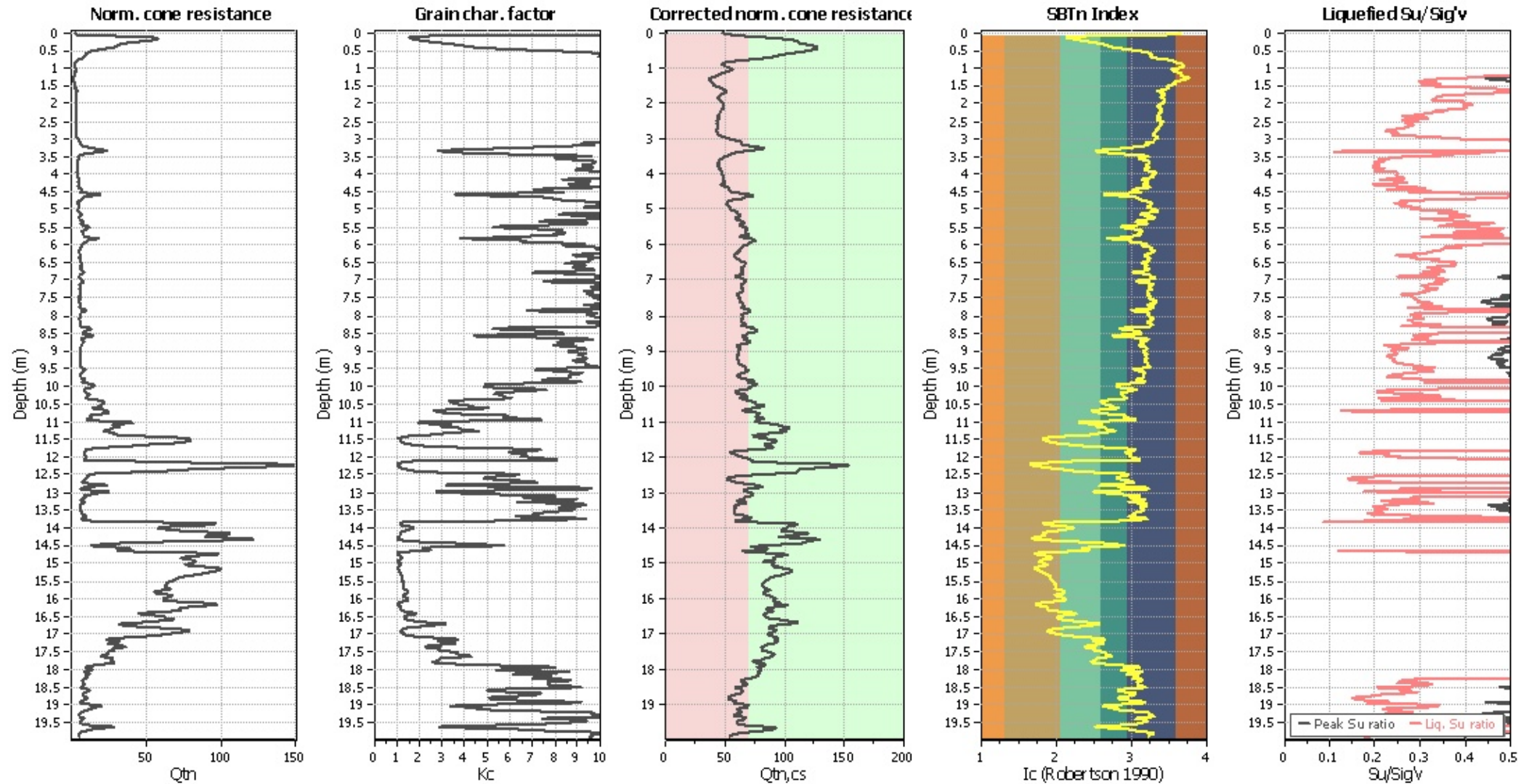
Liquefaction analysis summary plo



Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 5.75 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

Check for strength loss plots (Robertson (2010))



Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 5.75 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

| :: Liquefaction Potential Index calculation data :: | | | | | | | | | | | |
|---|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
| 0.02 | 2.00 | 0.00 | 9.99 | 0.02 | 0.00 | 0.04 | 2.00 | 0.00 | 9.98 | 0.02 | 0.00 |
| 0.06 | 2.00 | 0.00 | 9.97 | 0.02 | 0.00 | 0.08 | 2.00 | 0.00 | 9.96 | 0.02 | 0.00 |
| 0.10 | 2.00 | 0.00 | 9.95 | 0.02 | 0.00 | 0.12 | 2.00 | 0.00 | 9.94 | 0.02 | 0.00 |
| 0.14 | 2.00 | 0.00 | 9.93 | 0.02 | 0.00 | 0.16 | 2.00 | 0.00 | 9.92 | 0.02 | 0.00 |
| 0.18 | 2.00 | 0.00 | 9.91 | 0.02 | 0.00 | 0.20 | 2.00 | 0.00 | 9.90 | 0.02 | 0.00 |
| 0.22 | 2.00 | 0.00 | 9.89 | 0.02 | 0.00 | 0.24 | 2.00 | 0.00 | 9.88 | 0.02 | 0.00 |
| 0.26 | 2.00 | 0.00 | 9.87 | 0.02 | 0.00 | 0.28 | 2.00 | 0.00 | 9.86 | 0.02 | 0.00 |
| 0.30 | 2.00 | 0.00 | 9.85 | 0.02 | 0.00 | 0.32 | 2.00 | 0.00 | 9.84 | 0.02 | 0.00 |
| 0.34 | 2.00 | 0.00 | 9.83 | 0.02 | 0.00 | 0.36 | 2.00 | 0.00 | 9.82 | 0.02 | 0.00 |
| 0.38 | 2.00 | 0.00 | 9.81 | 0.02 | 0.00 | 0.40 | 2.00 | 0.00 | 9.80 | 0.02 | 0.00 |
| 0.42 | 2.00 | 0.00 | 9.79 | 0.02 | 0.00 | 0.44 | 2.00 | 0.00 | 9.78 | 0.02 | 0.00 |
| 0.46 | 2.00 | 0.00 | 9.77 | 0.02 | 0.00 | 0.48 | 2.00 | 0.00 | 9.76 | 0.02 | 0.00 |
| 0.50 | 2.00 | 0.00 | 9.75 | 0.02 | 0.00 | 0.52 | 2.00 | 0.00 | 9.74 | 0.02 | 0.00 |
| 0.54 | 2.00 | 0.00 | 9.73 | 0.02 | 0.00 | 0.56 | 2.00 | 0.00 | 9.72 | 0.02 | 0.00 |
| 0.58 | 2.00 | 0.00 | 9.71 | 0.02 | 0.00 | 0.60 | 2.00 | 0.00 | 9.70 | 0.02 | 0.00 |
| 0.62 | 2.00 | 0.00 | 9.69 | 0.02 | 0.00 | 0.64 | 2.00 | 0.00 | 9.68 | 0.02 | 0.00 |
| 0.66 | 2.00 | 0.00 | 9.67 | 0.02 | 0.00 | 0.68 | 2.00 | 0.00 | 9.66 | 0.02 | 0.00 |
| 0.70 | 2.00 | 0.00 | 9.65 | 0.02 | 0.00 | 0.72 | 2.00 | 0.00 | 9.64 | 0.02 | 0.00 |
| 0.74 | 2.00 | 0.00 | 9.63 | 0.02 | 0.00 | 0.76 | 2.00 | 0.00 | 9.62 | 0.02 | 0.00 |
| 0.78 | 2.00 | 0.00 | 9.61 | 0.02 | 0.00 | 0.80 | 2.00 | 0.00 | 9.60 | 0.02 | 0.00 |
| 0.82 | 2.00 | 0.00 | 9.59 | 0.02 | 0.00 | 0.84 | 2.00 | 0.00 | 9.58 | 0.02 | 0.00 |
| 0.86 | 2.00 | 0.00 | 9.57 | 0.02 | 0.00 | 0.88 | 2.00 | 0.00 | 9.56 | 0.02 | 0.00 |
| 0.90 | 2.00 | 0.00 | 9.55 | 0.02 | 0.00 | 0.92 | 2.00 | 0.00 | 9.54 | 0.02 | 0.00 |
| 0.94 | 2.00 | 0.00 | 9.53 | 0.02 | 0.00 | 0.96 | 2.00 | 0.00 | 9.52 | 0.02 | 0.00 |
| 0.98 | 2.00 | 0.00 | 9.51 | 0.02 | 0.00 | 1.00 | 2.00 | 0.00 | 9.50 | 0.02 | 0.00 |
| 1.02 | 2.00 | 0.00 | 9.49 | 0.02 | 0.00 | 1.04 | 2.00 | 0.00 | 9.48 | 0.02 | 0.00 |
| 1.06 | 2.00 | 0.00 | 9.47 | 0.02 | 0.00 | 1.08 | 2.00 | 0.00 | 9.46 | 0.02 | 0.00 |
| 1.10 | 2.00 | 0.00 | 9.45 | 0.02 | 0.00 | 1.12 | 2.00 | 0.00 | 9.44 | 0.02 | 0.00 |
| 1.14 | 2.00 | 0.00 | 9.43 | 0.02 | 0.00 | 1.16 | 2.00 | 0.00 | 9.42 | 0.02 | 0.00 |
| 1.18 | 2.00 | 0.00 | 9.41 | 0.02 | 0.00 | 1.20 | 2.00 | 0.00 | 9.40 | 0.02 | 0.00 |
| 1.22 | 2.00 | 0.00 | 9.39 | 0.02 | 0.00 | 1.24 | 2.00 | 0.00 | 9.38 | 0.02 | 0.00 |
| 1.26 | 2.00 | 0.00 | 9.37 | 0.02 | 0.00 | 1.28 | 2.00 | 0.00 | 9.36 | 0.02 | 0.00 |
| 1.30 | 2.00 | 0.00 | 9.35 | 0.02 | 0.00 | 1.32 | 2.00 | 0.00 | 9.34 | 0.02 | 0.00 |
| 1.34 | 2.00 | 0.00 | 9.33 | 0.02 | 0.00 | 1.36 | 2.00 | 0.00 | 9.32 | 0.02 | 0.00 |
| 1.38 | 2.00 | 0.00 | 9.31 | 0.02 | 0.00 | 1.40 | 2.00 | 0.00 | 9.30 | 0.02 | 0.00 |
| 1.42 | 2.00 | 0.00 | 9.29 | 0.02 | 0.00 | 1.44 | 2.00 | 0.00 | 9.28 | 0.02 | 0.00 |
| 1.46 | 2.00 | 0.00 | 9.27 | 0.02 | 0.00 | 1.48 | 2.00 | 0.00 | 9.26 | 0.02 | 0.00 |
| 1.50 | 2.00 | 0.00 | 9.25 | 0.02 | 0.00 | 1.52 | 2.00 | 0.00 | 9.24 | 0.02 | 0.00 |
| 1.54 | 2.00 | 0.00 | 9.23 | 0.02 | 0.00 | 1.56 | 2.00 | 0.00 | 9.22 | 0.02 | 0.00 |
| 1.58 | 2.00 | 0.00 | 9.21 | 0.02 | 0.00 | 1.60 | 2.00 | 0.00 | 9.20 | 0.02 | 0.00 |
| 1.62 | 2.00 | 0.00 | 9.19 | 0.02 | 0.00 | 1.64 | 2.00 | 0.00 | 9.18 | 0.02 | 0.00 |
| 1.66 | 2.00 | 0.00 | 9.17 | 0.02 | 0.00 | 1.68 | 2.00 | 0.00 | 9.16 | 0.02 | 0.00 |
| 1.70 | 2.00 | 0.00 | 9.15 | 0.02 | 0.00 | 1.72 | 2.00 | 0.00 | 9.14 | 0.02 | 0.00 |
| 1.74 | 2.00 | 0.00 | 9.13 | 0.02 | 0.00 | 1.76 | 2.00 | 0.00 | 9.12 | 0.02 | 0.00 |
| 1.78 | 2.00 | 0.00 | 9.11 | 0.02 | 0.00 | 1.80 | 2.00 | 0.00 | 9.10 | 0.02 | 0.00 |
| 1.82 | 2.00 | 0.00 | 9.09 | 0.02 | 0.00 | 1.84 | 2.00 | 0.00 | 9.08 | 0.02 | 0.00 |
| 1.86 | 2.00 | 0.00 | 9.07 | 0.02 | 0.00 | 1.88 | 2.00 | 0.00 | 9.06 | 0.02 | 0.00 |
| 1.90 | 2.00 | 0.00 | 9.05 | 0.02 | 0.00 | 1.92 | 2.00 | 0.00 | 9.04 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 1.94 | 2.00 | 0.00 | 9.03 | 0.02 | 0.00 | 1.96 | 2.00 | 0.00 | 9.02 | 0.02 | 0.00 |
| 1.98 | 2.00 | 0.00 | 9.01 | 0.02 | 0.00 | 2.00 | 2.00 | 0.00 | 9.00 | 0.02 | 0.00 |
| 2.02 | 2.00 | 0.00 | 8.99 | 0.02 | 0.00 | 2.04 | 2.00 | 0.00 | 8.98 | 0.02 | 0.00 |
| 2.06 | 2.00 | 0.00 | 8.97 | 0.02 | 0.00 | 2.08 | 2.00 | 0.00 | 8.96 | 0.02 | 0.00 |
| 2.10 | 2.00 | 0.00 | 8.95 | 0.02 | 0.00 | 2.12 | 2.00 | 0.00 | 8.94 | 0.02 | 0.00 |
| 2.14 | 2.00 | 0.00 | 8.93 | 0.02 | 0.00 | 2.16 | 2.00 | 0.00 | 8.92 | 0.02 | 0.00 |
| 2.18 | 2.00 | 0.00 | 8.91 | 0.02 | 0.00 | 2.20 | 2.00 | 0.00 | 8.90 | 0.02 | 0.00 |
| 2.22 | 2.00 | 0.00 | 8.89 | 0.02 | 0.00 | 2.24 | 2.00 | 0.00 | 8.88 | 0.02 | 0.00 |
| 2.26 | 2.00 | 0.00 | 8.87 | 0.02 | 0.00 | 2.28 | 2.00 | 0.00 | 8.86 | 0.02 | 0.00 |
| 2.30 | 2.00 | 0.00 | 8.85 | 0.02 | 0.00 | 2.32 | 2.00 | 0.00 | 8.84 | 0.02 | 0.00 |
| 2.34 | 2.00 | 0.00 | 8.83 | 0.02 | 0.00 | 2.36 | 2.00 | 0.00 | 8.82 | 0.02 | 0.00 |
| 2.38 | 2.00 | 0.00 | 8.81 | 0.02 | 0.00 | 2.40 | 2.00 | 0.00 | 8.80 | 0.02 | 0.00 |
| 2.42 | 2.00 | 0.00 | 8.79 | 0.02 | 0.00 | 2.44 | 2.00 | 0.00 | 8.78 | 0.02 | 0.00 |
| 2.46 | 2.00 | 0.00 | 8.77 | 0.02 | 0.00 | 2.48 | 2.00 | 0.00 | 8.76 | 0.02 | 0.00 |
| 2.50 | 2.00 | 0.00 | 8.75 | 0.02 | 0.00 | 2.52 | 2.00 | 0.00 | 8.74 | 0.02 | 0.00 |
| 2.54 | 2.00 | 0.00 | 8.73 | 0.02 | 0.00 | 2.56 | 2.00 | 0.00 | 8.72 | 0.02 | 0.00 |
| 2.58 | 2.00 | 0.00 | 8.71 | 0.02 | 0.00 | 2.60 | 2.00 | 0.00 | 8.70 | 0.02 | 0.00 |
| 2.62 | 2.00 | 0.00 | 8.69 | 0.02 | 0.00 | 2.64 | 2.00 | 0.00 | 8.68 | 0.02 | 0.00 |
| 2.66 | 2.00 | 0.00 | 8.67 | 0.02 | 0.00 | 2.68 | 2.00 | 0.00 | 8.66 | 0.02 | 0.00 |
| 2.70 | 2.00 | 0.00 | 8.65 | 0.02 | 0.00 | 2.72 | 2.00 | 0.00 | 8.64 | 0.02 | 0.00 |
| 2.74 | 2.00 | 0.00 | 8.63 | 0.02 | 0.00 | 2.76 | 2.00 | 0.00 | 8.62 | 0.02 | 0.00 |
| 2.78 | 2.00 | 0.00 | 8.61 | 0.02 | 0.00 | 2.80 | 2.00 | 0.00 | 8.60 | 0.02 | 0.00 |
| 2.82 | 2.00 | 0.00 | 8.59 | 0.02 | 0.00 | 2.84 | 2.00 | 0.00 | 8.58 | 0.02 | 0.00 |
| 2.86 | 2.00 | 0.00 | 8.57 | 0.02 | 0.00 | 2.88 | 2.00 | 0.00 | 8.56 | 0.02 | 0.00 |
| 2.90 | 2.00 | 0.00 | 8.55 | 0.02 | 0.00 | 2.92 | 2.00 | 0.00 | 8.54 | 0.02 | 0.00 |
| 2.94 | 2.00 | 0.00 | 8.53 | 0.02 | 0.00 | 2.96 | 2.00 | 0.00 | 8.52 | 0.02 | 0.00 |
| 2.98 | 2.00 | 0.00 | 8.51 | 0.02 | 0.00 | 3.00 | 2.00 | 0.00 | 8.50 | 0.02 | 0.00 |
| 3.02 | 2.00 | 0.00 | 8.49 | 0.02 | 0.00 | 3.04 | 2.00 | 0.00 | 8.48 | 0.02 | 0.00 |
| 3.06 | 2.00 | 0.00 | 8.47 | 0.02 | 0.00 | 3.08 | 2.00 | 0.00 | 8.46 | 0.02 | 0.00 |
| 3.10 | 2.00 | 0.00 | 8.45 | 0.02 | 0.00 | 3.12 | 2.00 | 0.00 | 8.44 | 0.02 | 0.00 |
| 3.14 | 2.00 | 0.00 | 8.43 | 0.02 | 0.00 | 3.16 | 2.00 | 0.00 | 8.42 | 0.02 | 0.00 |
| 3.18 | 2.00 | 0.00 | 8.41 | 0.02 | 0.00 | 3.20 | 2.00 | 0.00 | 8.40 | 0.02 | 0.00 |
| 3.22 | 2.00 | 0.00 | 8.39 | 0.02 | 0.00 | 3.24 | 2.00 | 0.00 | 8.38 | 0.02 | 0.00 |
| 3.26 | 2.00 | 0.00 | 8.37 | 0.02 | 0.00 | 3.28 | 2.00 | 0.00 | 8.36 | 0.02 | 0.00 |
| 3.30 | 2.00 | 0.00 | 8.35 | 0.02 | 0.00 | 3.32 | 1.17 | 0.00 | 8.34 | 0.02 | 0.00 |
| 3.34 | 1.12 | 0.00 | 8.33 | 0.02 | 0.00 | 3.36 | 1.09 | 0.00 | 8.32 | 0.02 | 0.00 |
| 3.38 | 1.05 | 0.00 | 8.31 | 0.02 | 0.00 | 3.40 | 2.00 | 0.00 | 8.30 | 0.02 | 0.00 |
| 3.42 | 2.00 | 0.00 | 8.29 | 0.02 | 0.00 | 3.44 | 2.00 | 0.00 | 8.28 | 0.02 | 0.00 |
| 3.46 | 2.00 | 0.00 | 8.27 | 0.02 | 0.00 | 3.48 | 2.00 | 0.00 | 8.26 | 0.02 | 0.00 |
| 3.50 | 2.00 | 0.00 | 8.25 | 0.02 | 0.00 | 3.52 | 2.00 | 0.00 | 8.24 | 0.02 | 0.00 |
| 3.54 | 2.00 | 0.00 | 8.23 | 0.02 | 0.00 | 3.56 | 2.00 | 0.00 | 8.22 | 0.02 | 0.00 |
| 3.58 | 2.00 | 0.00 | 8.21 | 0.02 | 0.00 | 3.60 | 2.00 | 0.00 | 8.20 | 0.02 | 0.00 |
| 3.62 | 2.00 | 0.00 | 8.19 | 0.02 | 0.00 | 3.64 | 2.00 | 0.00 | 8.18 | 0.02 | 0.00 |
| 3.66 | 2.00 | 0.00 | 8.17 | 0.02 | 0.00 | 3.68 | 2.00 | 0.00 | 8.16 | 0.02 | 0.00 |
| 3.70 | 2.00 | 0.00 | 8.15 | 0.02 | 0.00 | 3.72 | 2.00 | 0.00 | 8.14 | 0.02 | 0.00 |
| 3.74 | 2.00 | 0.00 | 8.13 | 0.02 | 0.00 | 3.76 | 2.00 | 0.00 | 8.12 | 0.02 | 0.00 |
| 3.78 | 2.00 | 0.00 | 8.11 | 0.02 | 0.00 | 3.80 | 2.00 | 0.00 | 8.10 | 0.02 | 0.00 |
| 3.82 | 2.00 | 0.00 | 8.09 | 0.02 | 0.00 | 3.84 | 2.00 | 0.00 | 8.08 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 3.86 | 2.00 | 0.00 | 8.07 | 0.02 | 0.00 | 3.88 | 2.00 | 0.00 | 8.06 | 0.02 | 0.00 |
| 3.90 | 2.00 | 0.00 | 8.05 | 0.02 | 0.00 | 3.92 | 2.00 | 0.00 | 8.04 | 0.02 | 0.00 |
| 3.94 | 2.00 | 0.00 | 8.03 | 0.02 | 0.00 | 3.96 | 2.00 | 0.00 | 8.02 | 0.02 | 0.00 |
| 3.98 | 2.00 | 0.00 | 8.01 | 0.02 | 0.00 | 4.00 | 2.00 | 0.00 | 8.00 | 0.02 | 0.00 |
| 4.02 | 2.00 | 0.00 | 7.99 | 0.02 | 0.00 | 4.04 | 2.00 | 0.00 | 7.98 | 0.02 | 0.00 |
| 4.06 | 2.00 | 0.00 | 7.97 | 0.02 | 0.00 | 4.08 | 2.00 | 0.00 | 7.96 | 0.02 | 0.00 |
| 4.10 | 2.00 | 0.00 | 7.95 | 0.02 | 0.00 | 4.12 | 2.00 | 0.00 | 7.94 | 0.02 | 0.00 |
| 4.14 | 2.00 | 0.00 | 7.93 | 0.02 | 0.00 | 4.16 | 2.00 | 0.00 | 7.92 | 0.02 | 0.00 |
| 4.18 | 2.00 | 0.00 | 7.91 | 0.02 | 0.00 | 4.20 | 2.00 | 0.00 | 7.90 | 0.02 | 0.00 |
| 4.22 | 2.00 | 0.00 | 7.89 | 0.02 | 0.00 | 4.24 | 2.00 | 0.00 | 7.88 | 0.02 | 0.00 |
| 4.26 | 2.00 | 0.00 | 7.87 | 0.02 | 0.00 | 4.28 | 2.00 | 0.00 | 7.86 | 0.02 | 0.00 |
| 4.30 | 2.00 | 0.00 | 7.85 | 0.02 | 0.00 | 4.32 | 2.00 | 0.00 | 7.84 | 0.02 | 0.00 |
| 4.34 | 2.00 | 0.00 | 7.83 | 0.02 | 0.00 | 4.36 | 2.00 | 0.00 | 7.82 | 0.02 | 0.00 |
| 4.38 | 2.00 | 0.00 | 7.81 | 0.02 | 0.00 | 4.40 | 2.00 | 0.00 | 7.80 | 0.02 | 0.00 |
| 4.42 | 2.00 | 0.00 | 7.79 | 0.02 | 0.00 | 4.44 | 2.00 | 0.00 | 7.78 | 0.02 | 0.00 |
| 4.46 | 2.00 | 0.00 | 7.77 | 0.02 | 0.00 | 4.48 | 2.00 | 0.00 | 7.76 | 0.02 | 0.00 |
| 4.50 | 2.00 | 0.00 | 7.75 | 0.02 | 0.00 | 4.52 | 2.00 | 0.00 | 7.74 | 0.02 | 0.00 |
| 4.54 | 2.00 | 0.00 | 7.73 | 0.02 | 0.00 | 4.56 | 2.00 | 0.00 | 7.72 | 0.02 | 0.00 |
| 4.58 | 2.00 | 0.00 | 7.71 | 0.02 | 0.00 | 4.60 | 2.00 | 0.00 | 7.70 | 0.02 | 0.00 |
| 4.62 | 2.00 | 0.00 | 7.69 | 0.02 | 0.00 | 4.64 | 2.00 | 0.00 | 7.68 | 0.02 | 0.00 |
| 4.66 | 2.00 | 0.00 | 7.67 | 0.02 | 0.00 | 4.68 | 2.00 | 0.00 | 7.66 | 0.02 | 0.00 |
| 4.70 | 2.00 | 0.00 | 7.65 | 0.02 | 0.00 | 4.72 | 2.00 | 0.00 | 7.64 | 0.02 | 0.00 |
| 4.74 | 2.00 | 0.00 | 7.63 | 0.02 | 0.00 | 4.76 | 2.00 | 0.00 | 7.62 | 0.02 | 0.00 |
| 4.78 | 2.00 | 0.00 | 7.61 | 0.02 | 0.00 | 4.80 | 2.00 | 0.00 | 7.60 | 0.02 | 0.00 |
| 4.82 | 2.00 | 0.00 | 7.59 | 0.02 | 0.00 | 4.84 | 2.00 | 0.00 | 7.58 | 0.02 | 0.00 |
| 4.86 | 2.00 | 0.00 | 7.57 | 0.02 | 0.00 | 4.88 | 2.00 | 0.00 | 7.56 | 0.02 | 0.00 |
| 4.90 | 2.00 | 0.00 | 7.55 | 0.02 | 0.00 | 4.92 | 2.00 | 0.00 | 7.54 | 0.02 | 0.00 |
| 4.94 | 2.00 | 0.00 | 7.53 | 0.02 | 0.00 | 4.96 | 2.00 | 0.00 | 7.52 | 0.02 | 0.00 |
| 4.98 | 2.00 | 0.00 | 7.51 | 0.02 | 0.00 | 5.00 | 2.00 | 0.00 | 7.50 | 0.02 | 0.00 |
| 5.02 | 2.00 | 0.00 | 7.49 | 0.02 | 0.00 | 5.04 | 2.00 | 0.00 | 7.48 | 0.02 | 0.00 |
| 5.06 | 2.00 | 0.00 | 7.47 | 0.02 | 0.00 | 5.08 | 2.00 | 0.00 | 7.46 | 0.02 | 0.00 |
| 5.10 | 2.00 | 0.00 | 7.45 | 0.02 | 0.00 | 5.12 | 2.00 | 0.00 | 7.44 | 0.02 | 0.00 |
| 5.14 | 2.00 | 0.00 | 7.43 | 0.02 | 0.00 | 5.16 | 2.00 | 0.00 | 7.42 | 0.02 | 0.00 |
| 5.18 | 2.00 | 0.00 | 7.41 | 0.02 | 0.00 | 5.20 | 2.00 | 0.00 | 7.40 | 0.02 | 0.00 |
| 5.22 | 2.00 | 0.00 | 7.39 | 0.02 | 0.00 | 5.24 | 2.00 | 0.00 | 7.38 | 0.02 | 0.00 |
| 5.26 | 2.00 | 0.00 | 7.37 | 0.02 | 0.00 | 5.28 | 2.00 | 0.00 | 7.36 | 0.02 | 0.00 |
| 5.30 | 2.00 | 0.00 | 7.35 | 0.02 | 0.00 | 5.32 | 2.00 | 0.00 | 7.34 | 0.02 | 0.00 |
| 5.34 | 2.00 | 0.00 | 7.33 | 0.02 | 0.00 | 5.36 | 2.00 | 0.00 | 7.32 | 0.02 | 0.00 |
| 5.38 | 2.00 | 0.00 | 7.31 | 0.02 | 0.00 | 5.40 | 2.00 | 0.00 | 7.30 | 0.02 | 0.00 |
| 5.42 | 2.00 | 0.00 | 7.29 | 0.02 | 0.00 | 5.44 | 2.00 | 0.00 | 7.28 | 0.02 | 0.00 |
| 5.46 | 2.00 | 0.00 | 7.27 | 0.02 | 0.00 | 5.48 | 2.00 | 0.00 | 7.26 | 0.02 | 0.00 |
| 5.50 | 2.00 | 0.00 | 7.25 | 0.02 | 0.00 | 5.52 | 2.00 | 0.00 | 7.24 | 0.02 | 0.00 |
| 5.54 | 2.00 | 0.00 | 7.23 | 0.02 | 0.00 | 5.56 | 2.00 | 0.00 | 7.22 | 0.02 | 0.00 |
| 5.58 | 2.00 | 0.00 | 7.21 | 0.02 | 0.00 | 5.60 | 2.00 | 0.00 | 7.20 | 0.02 | 0.00 |
| 5.62 | 2.00 | 0.00 | 7.19 | 0.02 | 0.00 | 5.64 | 2.00 | 0.00 | 7.18 | 0.02 | 0.00 |
| 5.66 | 2.00 | 0.00 | 7.17 | 0.02 | 0.00 | 5.68 | 2.00 | 0.00 | 7.16 | 0.02 | 0.00 |
| 5.70 | 2.00 | 0.00 | 7.15 | 0.02 | 0.00 | 5.72 | 2.00 | 0.00 | 7.14 | 0.02 | 0.00 |
| 5.74 | 2.00 | 0.00 | 7.13 | 0.02 | 0.00 | 5.76 | 2.00 | 0.00 | 7.12 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 5.78 | 2.00 | 0.00 | 7.11 | 0.02 | 0.00 | 5.80 | 2.00 | 0.00 | 7.10 | 0.02 | 0.00 |
| 5.82 | 2.00 | 0.00 | 7.09 | 0.02 | 0.00 | 5.84 | 2.00 | 0.00 | 7.08 | 0.02 | 0.00 |
| 5.86 | 2.00 | 0.00 | 7.07 | 0.02 | 0.00 | 5.88 | 2.00 | 0.00 | 7.06 | 0.02 | 0.00 |
| 5.90 | 2.00 | 0.00 | 7.05 | 0.02 | 0.00 | 5.92 | 2.00 | 0.00 | 7.04 | 0.02 | 0.00 |
| 5.94 | 2.00 | 0.00 | 7.03 | 0.02 | 0.00 | 5.96 | 2.00 | 0.00 | 7.02 | 0.02 | 0.00 |
| 5.98 | 2.00 | 0.00 | 7.01 | 0.02 | 0.00 | 6.00 | 2.00 | 0.00 | 7.00 | 0.02 | 0.00 |
| 6.02 | 2.00 | 0.00 | 6.99 | 0.02 | 0.00 | 6.04 | 2.00 | 0.00 | 6.98 | 0.02 | 0.00 |
| 6.06 | 2.00 | 0.00 | 6.97 | 0.02 | 0.00 | 6.08 | 2.00 | 0.00 | 6.96 | 0.02 | 0.00 |
| 6.10 | 2.00 | 0.00 | 6.95 | 0.02 | 0.00 | 6.12 | 2.00 | 0.00 | 6.94 | 0.02 | 0.00 |
| 6.14 | 2.00 | 0.00 | 6.93 | 0.02 | 0.00 | 6.16 | 2.00 | 0.00 | 6.92 | 0.02 | 0.00 |
| 6.18 | 2.00 | 0.00 | 6.91 | 0.02 | 0.00 | 6.20 | 2.00 | 0.00 | 6.90 | 0.02 | 0.00 |
| 6.22 | 2.00 | 0.00 | 6.89 | 0.02 | 0.00 | 6.24 | 2.00 | 0.00 | 6.88 | 0.02 | 0.00 |
| 6.26 | 2.00 | 0.00 | 6.87 | 0.02 | 0.00 | 6.28 | 2.00 | 0.00 | 6.86 | 0.02 | 0.00 |
| 6.30 | 2.00 | 0.00 | 6.85 | 0.02 | 0.00 | 6.32 | 2.00 | 0.00 | 6.84 | 0.02 | 0.00 |
| 6.34 | 2.00 | 0.00 | 6.83 | 0.02 | 0.00 | 6.36 | 2.00 | 0.00 | 6.82 | 0.02 | 0.00 |
| 6.38 | 2.00 | 0.00 | 6.81 | 0.02 | 0.00 | 6.40 | 2.00 | 0.00 | 6.80 | 0.02 | 0.00 |
| 6.42 | 2.00 | 0.00 | 6.79 | 0.02 | 0.00 | 6.44 | 2.00 | 0.00 | 6.78 | 0.02 | 0.00 |
| 6.46 | 2.00 | 0.00 | 6.77 | 0.02 | 0.00 | 6.48 | 2.00 | 0.00 | 6.76 | 0.02 | 0.00 |
| 6.50 | 2.00 | 0.00 | 6.75 | 0.02 | 0.00 | 6.52 | 2.00 | 0.00 | 6.74 | 0.02 | 0.00 |
| 6.54 | 2.00 | 0.00 | 6.73 | 0.02 | 0.00 | 6.56 | 2.00 | 0.00 | 6.72 | 0.02 | 0.00 |
| 6.58 | 2.00 | 0.00 | 6.71 | 0.02 | 0.00 | 6.60 | 2.00 | 0.00 | 6.70 | 0.02 | 0.00 |
| 6.62 | 2.00 | 0.00 | 6.69 | 0.02 | 0.00 | 6.64 | 2.00 | 0.00 | 6.68 | 0.02 | 0.00 |
| 6.66 | 2.00 | 0.00 | 6.67 | 0.02 | 0.00 | 6.68 | 2.00 | 0.00 | 6.66 | 0.02 | 0.00 |
| 6.70 | 2.00 | 0.00 | 6.65 | 0.02 | 0.00 | 6.72 | 2.00 | 0.00 | 6.64 | 0.02 | 0.00 |
| 6.74 | 2.00 | 0.00 | 6.63 | 0.02 | 0.00 | 6.76 | 2.00 | 0.00 | 6.62 | 0.02 | 0.00 |
| 6.78 | 2.00 | 0.00 | 6.61 | 0.02 | 0.00 | 6.80 | 2.00 | 0.00 | 6.60 | 0.02 | 0.00 |
| 6.82 | 2.00 | 0.00 | 6.59 | 0.02 | 0.00 | 6.84 | 2.00 | 0.00 | 6.58 | 0.02 | 0.00 |
| 6.86 | 2.00 | 0.00 | 6.57 | 0.02 | 0.00 | 6.88 | 2.00 | 0.00 | 6.56 | 0.02 | 0.00 |
| 6.90 | 2.00 | 0.00 | 6.55 | 0.02 | 0.00 | 6.92 | 2.00 | 0.00 | 6.54 | 0.02 | 0.00 |
| 6.94 | 2.00 | 0.00 | 6.53 | 0.02 | 0.00 | 6.96 | 2.00 | 0.00 | 6.52 | 0.02 | 0.00 |
| 6.98 | 2.00 | 0.00 | 6.51 | 0.02 | 0.00 | 7.00 | 2.00 | 0.00 | 6.50 | 0.02 | 0.00 |
| 7.02 | 2.00 | 0.00 | 6.49 | 0.02 | 0.00 | 7.04 | 2.00 | 0.00 | 6.48 | 0.02 | 0.00 |
| 7.06 | 2.00 | 0.00 | 6.47 | 0.02 | 0.00 | 7.08 | 2.00 | 0.00 | 6.46 | 0.02 | 0.00 |
| 7.10 | 2.00 | 0.00 | 6.45 | 0.02 | 0.00 | 7.12 | 2.00 | 0.00 | 6.44 | 0.02 | 0.00 |
| 7.14 | 2.00 | 0.00 | 6.43 | 0.02 | 0.00 | 7.16 | 2.00 | 0.00 | 6.42 | 0.02 | 0.00 |
| 7.18 | 2.00 | 0.00 | 6.41 | 0.02 | 0.00 | 7.20 | 2.00 | 0.00 | 6.40 | 0.02 | 0.00 |
| 7.22 | 2.00 | 0.00 | 6.39 | 0.02 | 0.00 | 7.24 | 2.00 | 0.00 | 6.38 | 0.02 | 0.00 |
| 7.26 | 2.00 | 0.00 | 6.37 | 0.02 | 0.00 | 7.28 | 2.00 | 0.00 | 6.36 | 0.02 | 0.00 |
| 7.30 | 2.00 | 0.00 | 6.35 | 0.02 | 0.00 | 7.32 | 2.00 | 0.00 | 6.34 | 0.02 | 0.00 |
| 7.34 | 2.00 | 0.00 | 6.33 | 0.02 | 0.00 | 7.36 | 2.00 | 0.00 | 6.32 | 0.02 | 0.00 |
| 7.38 | 2.00 | 0.00 | 6.31 | 0.02 | 0.00 | 7.40 | 2.00 | 0.00 | 6.30 | 0.02 | 0.00 |
| 7.42 | 2.00 | 0.00 | 6.29 | 0.02 | 0.00 | 7.44 | 2.00 | 0.00 | 6.28 | 0.02 | 0.00 |
| 7.46 | 2.00 | 0.00 | 6.27 | 0.02 | 0.00 | 7.48 | 2.00 | 0.00 | 6.26 | 0.02 | 0.00 |
| 7.50 | 2.00 | 0.00 | 6.25 | 0.02 | 0.00 | 7.52 | 2.00 | 0.00 | 6.24 | 0.02 | 0.00 |
| 7.54 | 2.00 | 0.00 | 6.23 | 0.02 | 0.00 | 7.56 | 2.00 | 0.00 | 6.22 | 0.02 | 0.00 |
| 7.58 | 2.00 | 0.00 | 6.21 | 0.02 | 0.00 | 7.60 | 2.00 | 0.00 | 6.20 | 0.02 | 0.00 |
| 7.62 | 2.00 | 0.00 | 6.19 | 0.02 | 0.00 | 7.64 | 2.00 | 0.00 | 6.18 | 0.02 | 0.00 |
| 7.66 | 2.00 | 0.00 | 6.17 | 0.02 | 0.00 | 7.68 | 2.00 | 0.00 | 6.16 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 7.70 | 2.00 | 0.00 | 6.15 | 0.02 | 0.00 | 7.72 | 2.00 | 0.00 | 6.14 | 0.02 | 0.00 |
| 7.74 | 2.00 | 0.00 | 6.13 | 0.02 | 0.00 | 7.76 | 2.00 | 0.00 | 6.12 | 0.02 | 0.00 |
| 7.78 | 2.00 | 0.00 | 6.11 | 0.02 | 0.00 | 7.80 | 2.00 | 0.00 | 6.10 | 0.02 | 0.00 |
| 7.82 | 2.00 | 0.00 | 6.09 | 0.02 | 0.00 | 7.84 | 2.00 | 0.00 | 6.08 | 0.02 | 0.00 |
| 7.86 | 2.00 | 0.00 | 6.07 | 0.02 | 0.00 | 7.88 | 2.00 | 0.00 | 6.06 | 0.02 | 0.00 |
| 7.90 | 2.00 | 0.00 | 6.05 | 0.02 | 0.00 | 7.92 | 2.00 | 0.00 | 6.04 | 0.02 | 0.00 |
| 7.94 | 2.00 | 0.00 | 6.03 | 0.02 | 0.00 | 7.96 | 2.00 | 0.00 | 6.02 | 0.02 | 0.00 |
| 7.98 | 2.00 | 0.00 | 6.01 | 0.02 | 0.00 | 8.00 | 2.00 | 0.00 | 6.00 | 0.02 | 0.00 |
| 8.02 | 2.00 | 0.00 | 5.99 | 0.02 | 0.00 | 8.04 | 2.00 | 0.00 | 5.98 | 0.02 | 0.00 |
| 8.06 | 2.00 | 0.00 | 5.97 | 0.02 | 0.00 | 8.08 | 2.00 | 0.00 | 5.96 | 0.02 | 0.00 |
| 8.10 | 2.00 | 0.00 | 5.95 | 0.02 | 0.00 | 8.12 | 2.00 | 0.00 | 5.94 | 0.02 | 0.00 |
| 8.14 | 2.00 | 0.00 | 5.93 | 0.02 | 0.00 | 8.16 | 2.00 | 0.00 | 5.92 | 0.02 | 0.00 |
| 8.18 | 2.00 | 0.00 | 5.91 | 0.02 | 0.00 | 8.20 | 2.00 | 0.00 | 5.90 | 0.02 | 0.00 |
| 8.22 | 2.00 | 0.00 | 5.89 | 0.02 | 0.00 | 8.24 | 2.00 | 0.00 | 5.88 | 0.02 | 0.00 |
| 8.26 | 2.00 | 0.00 | 5.87 | 0.02 | 0.00 | 8.28 | 2.00 | 0.00 | 5.86 | 0.02 | 0.00 |
| 8.30 | 2.00 | 0.00 | 5.85 | 0.02 | 0.00 | 8.32 | 2.00 | 0.00 | 5.84 | 0.02 | 0.00 |
| 8.34 | 2.00 | 0.00 | 5.83 | 0.02 | 0.00 | 8.36 | 2.00 | 0.00 | 5.82 | 0.02 | 0.00 |
| 8.38 | 2.00 | 0.00 | 5.81 | 0.02 | 0.00 | 8.40 | 2.00 | 0.00 | 5.80 | 0.02 | 0.00 |
| 8.42 | 2.00 | 0.00 | 5.79 | 0.02 | 0.00 | 8.44 | 2.00 | 0.00 | 5.78 | 0.02 | 0.00 |
| 8.46 | 2.00 | 0.00 | 5.77 | 0.02 | 0.00 | 8.48 | 2.00 | 0.00 | 5.76 | 0.02 | 0.00 |
| 8.50 | 2.00 | 0.00 | 5.75 | 0.02 | 0.00 | 8.52 | 2.00 | 0.00 | 5.74 | 0.02 | 0.00 |
| 8.54 | 2.00 | 0.00 | 5.73 | 0.02 | 0.00 | 8.56 | 2.00 | 0.00 | 5.72 | 0.02 | 0.00 |
| 8.58 | 2.00 | 0.00 | 5.71 | 0.02 | 0.00 | 8.60 | 2.00 | 0.00 | 5.70 | 0.02 | 0.00 |
| 8.62 | 2.00 | 0.00 | 5.69 | 0.02 | 0.00 | 8.64 | 2.00 | 0.00 | 5.68 | 0.02 | 0.00 |
| 8.66 | 2.00 | 0.00 | 5.67 | 0.02 | 0.00 | 8.68 | 2.00 | 0.00 | 5.66 | 0.02 | 0.00 |
| 8.70 | 2.00 | 0.00 | 5.65 | 0.02 | 0.00 | 8.72 | 2.00 | 0.00 | 5.64 | 0.02 | 0.00 |
| 8.74 | 2.00 | 0.00 | 5.63 | 0.02 | 0.00 | 8.76 | 2.00 | 0.00 | 5.62 | 0.02 | 0.00 |
| 8.78 | 2.00 | 0.00 | 5.61 | 0.02 | 0.00 | 8.80 | 2.00 | 0.00 | 5.60 | 0.02 | 0.00 |
| 8.82 | 2.00 | 0.00 | 5.59 | 0.02 | 0.00 | 8.84 | 2.00 | 0.00 | 5.58 | 0.02 | 0.00 |
| 8.86 | 2.00 | 0.00 | 5.57 | 0.02 | 0.00 | 8.88 | 2.00 | 0.00 | 5.56 | 0.02 | 0.00 |
| 8.90 | 2.00 | 0.00 | 5.55 | 0.02 | 0.00 | 8.92 | 2.00 | 0.00 | 5.54 | 0.02 | 0.00 |
| 8.94 | 2.00 | 0.00 | 5.53 | 0.02 | 0.00 | 8.96 | 2.00 | 0.00 | 5.52 | 0.02 | 0.00 |
| 8.98 | 2.00 | 0.00 | 5.51 | 0.02 | 0.00 | 9.00 | 2.00 | 0.00 | 5.50 | 0.02 | 0.00 |
| 9.02 | 2.00 | 0.00 | 5.49 | 0.02 | 0.00 | 9.04 | 2.00 | 0.00 | 5.48 | 0.02 | 0.00 |
| 9.06 | 2.00 | 0.00 | 5.47 | 0.02 | 0.00 | 9.08 | 2.00 | 0.00 | 5.46 | 0.02 | 0.00 |
| 9.10 | 2.00 | 0.00 | 5.45 | 0.02 | 0.00 | 9.12 | 2.00 | 0.00 | 5.44 | 0.02 | 0.00 |
| 9.14 | 2.00 | 0.00 | 5.43 | 0.02 | 0.00 | 9.16 | 2.00 | 0.00 | 5.42 | 0.02 | 0.00 |
| 9.18 | 2.00 | 0.00 | 5.41 | 0.02 | 0.00 | 9.20 | 2.00 | 0.00 | 5.40 | 0.02 | 0.00 |
| 9.22 | 2.00 | 0.00 | 5.39 | 0.02 | 0.00 | 9.24 | 2.00 | 0.00 | 5.38 | 0.02 | 0.00 |
| 9.26 | 2.00 | 0.00 | 5.37 | 0.02 | 0.00 | 9.28 | 2.00 | 0.00 | 5.36 | 0.02 | 0.00 |
| 9.30 | 2.00 | 0.00 | 5.35 | 0.02 | 0.00 | 9.32 | 2.00 | 0.00 | 5.34 | 0.02 | 0.00 |
| 9.34 | 2.00 | 0.00 | 5.33 | 0.02 | 0.00 | 9.36 | 2.00 | 0.00 | 5.32 | 0.02 | 0.00 |
| 9.38 | 2.00 | 0.00 | 5.31 | 0.02 | 0.00 | 9.40 | 2.00 | 0.00 | 5.30 | 0.02 | 0.00 |
| 9.42 | 2.00 | 0.00 | 5.29 | 0.02 | 0.00 | 9.44 | 2.00 | 0.00 | 5.28 | 0.02 | 0.00 |
| 9.46 | 2.00 | 0.00 | 5.27 | 0.02 | 0.00 | 9.48 | 2.00 | 0.00 | 5.26 | 0.02 | 0.00 |
| 9.50 | 2.00 | 0.00 | 5.25 | 0.02 | 0.00 | 9.52 | 2.00 | 0.00 | 5.24 | 0.02 | 0.00 |
| 9.54 | 2.00 | 0.00 | 5.23 | 0.02 | 0.00 | 9.56 | 2.00 | 0.00 | 5.22 | 0.02 | 0.00 |
| 9.58 | 2.00 | 0.00 | 5.21 | 0.02 | 0.00 | 9.60 | 2.00 | 0.00 | 5.20 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 9.62 | 2.00 | 0.00 | 5.19 | 0.02 | 0.00 | 9.64 | 2.00 | 0.00 | 5.18 | 0.02 | 0.00 |
| 9.66 | 2.00 | 0.00 | 5.17 | 0.02 | 0.00 | 9.68 | 2.00 | 0.00 | 5.16 | 0.02 | 0.00 |
| 9.70 | 2.00 | 0.00 | 5.15 | 0.02 | 0.00 | 9.72 | 2.00 | 0.00 | 5.14 | 0.02 | 0.00 |
| 9.74 | 2.00 | 0.00 | 5.13 | 0.02 | 0.00 | 9.76 | 2.00 | 0.00 | 5.12 | 0.02 | 0.00 |
| 9.78 | 2.00 | 0.00 | 5.11 | 0.02 | 0.00 | 9.80 | 2.00 | 0.00 | 5.10 | 0.02 | 0.00 |
| 9.82 | 2.00 | 0.00 | 5.09 | 0.02 | 0.00 | 9.84 | 2.00 | 0.00 | 5.08 | 0.02 | 0.00 |
| 9.86 | 2.00 | 0.00 | 5.07 | 0.02 | 0.00 | 9.88 | 2.00 | 0.00 | 5.06 | 0.02 | 0.00 |
| 9.90 | 2.00 | 0.00 | 5.05 | 0.02 | 0.00 | 9.92 | 2.00 | 0.00 | 5.04 | 0.02 | 0.00 |
| 9.94 | 2.00 | 0.00 | 5.03 | 0.02 | 0.00 | 9.96 | 2.00 | 0.00 | 5.02 | 0.02 | 0.00 |
| 9.98 | 2.00 | 0.00 | 5.01 | 0.02 | 0.00 | 10.00 | 2.00 | 0.00 | 5.00 | 0.02 | 0.00 |
| 10.02 | 2.00 | 0.00 | 4.99 | 0.02 | 0.00 | 10.04 | 2.00 | 0.00 | 4.98 | 0.02 | 0.00 |
| 10.06 | 2.00 | 0.00 | 4.97 | 0.02 | 0.00 | 10.08 | 2.00 | 0.00 | 4.96 | 0.02 | 0.00 |
| 10.10 | 2.00 | 0.00 | 4.95 | 0.02 | 0.00 | 10.12 | 2.00 | 0.00 | 4.94 | 0.02 | 0.00 |
| 10.14 | 2.00 | 0.00 | 4.93 | 0.02 | 0.00 | 10.16 | 2.00 | 0.00 | 4.92 | 0.02 | 0.00 |
| 10.18 | 2.00 | 0.00 | 4.91 | 0.02 | 0.00 | 10.20 | 2.00 | 0.00 | 4.90 | 0.02 | 0.00 |
| 10.22 | 2.00 | 0.00 | 4.89 | 0.02 | 0.00 | 10.24 | 2.00 | 0.00 | 4.88 | 0.02 | 0.00 |
| 10.26 | 2.00 | 0.00 | 4.87 | 0.02 | 0.00 | 10.28 | 2.00 | 0.00 | 4.86 | 0.02 | 0.00 |
| 10.30 | 2.00 | 0.00 | 4.85 | 0.02 | 0.00 | 10.32 | 2.00 | 0.00 | 4.84 | 0.02 | 0.00 |
| 10.34 | 2.00 | 0.00 | 4.83 | 0.02 | 0.00 | 10.36 | 2.00 | 0.00 | 4.82 | 0.02 | 0.00 |
| 10.38 | 2.00 | 0.00 | 4.81 | 0.02 | 0.00 | 10.40 | 0.97 | 0.03 | 4.80 | 0.02 | 0.00 |
| 10.42 | 2.00 | 0.00 | 4.79 | 0.02 | 0.00 | 10.44 | 2.00 | 0.00 | 4.78 | 0.02 | 0.00 |
| 10.46 | 2.00 | 0.00 | 4.77 | 0.02 | 0.00 | 10.48 | 2.00 | 0.00 | 4.76 | 0.02 | 0.00 |
| 10.50 | 2.00 | 0.00 | 4.75 | 0.02 | 0.00 | 10.52 | 2.00 | 0.00 | 4.74 | 0.02 | 0.00 |
| 10.54 | 2.00 | 0.00 | 4.73 | 0.02 | 0.00 | 10.56 | 2.00 | 0.00 | 4.72 | 0.02 | 0.00 |
| 10.58 | 2.00 | 0.00 | 4.71 | 0.02 | 0.00 | 10.60 | 2.00 | 0.00 | 4.70 | 0.02 | 0.00 |
| 10.62 | 2.00 | 0.00 | 4.69 | 0.02 | 0.00 | 10.64 | 2.00 | 0.00 | 4.68 | 0.02 | 0.00 |
| 10.66 | 0.93 | 0.07 | 4.67 | 0.02 | 0.01 | 10.68 | 0.93 | 0.07 | 4.66 | 0.02 | 0.01 |
| 10.70 | 0.96 | 0.04 | 4.65 | 0.02 | 0.00 | 10.72 | 1.03 | 0.00 | 4.64 | 0.02 | 0.00 |
| 10.74 | 1.09 | 0.00 | 4.63 | 0.02 | 0.00 | 10.76 | 2.00 | 0.00 | 4.62 | 0.02 | 0.00 |
| 10.78 | 2.00 | 0.00 | 4.61 | 0.02 | 0.00 | 10.80 | 2.00 | 0.00 | 4.60 | 0.02 | 0.00 |
| 10.82 | 2.00 | 0.00 | 4.59 | 0.02 | 0.00 | 10.84 | 2.00 | 0.00 | 4.58 | 0.02 | 0.00 |
| 10.86 | 2.00 | 0.00 | 4.57 | 0.02 | 0.00 | 10.88 | 2.00 | 0.00 | 4.56 | 0.02 | 0.00 |
| 10.90 | 2.00 | 0.00 | 4.55 | 0.02 | 0.00 | 10.92 | 2.00 | 0.00 | 4.54 | 0.02 | 0.00 |
| 10.94 | 2.00 | 0.00 | 4.53 | 0.02 | 0.00 | 10.96 | 2.00 | 0.00 | 4.52 | 0.02 | 0.00 |
| 10.98 | 2.00 | 0.00 | 4.51 | 0.02 | 0.00 | 11.00 | 1.06 | 0.00 | 4.50 | 0.02 | 0.00 |
| 11.02 | 1.11 | 0.00 | 4.49 | 0.02 | 0.00 | 11.04 | 1.16 | 0.00 | 4.48 | 0.02 | 0.00 |
| 11.06 | 1.24 | 0.00 | 4.47 | 0.02 | 0.00 | 11.08 | 1.34 | 0.00 | 4.46 | 0.02 | 0.00 |
| 11.10 | 2.00 | 0.00 | 4.45 | 0.02 | 0.00 | 11.12 | 1.44 | 0.00 | 4.44 | 0.02 | 0.00 |
| 11.14 | 1.49 | 0.00 | 4.43 | 0.02 | 0.00 | 11.16 | 1.60 | 0.00 | 4.42 | 0.02 | 0.00 |
| 11.18 | 2.00 | 0.00 | 4.41 | 0.02 | 0.00 | 11.20 | 2.00 | 0.00 | 4.40 | 0.02 | 0.00 |
| 11.22 | 2.00 | 0.00 | 4.39 | 0.02 | 0.00 | 11.24 | 2.00 | 0.00 | 4.38 | 0.02 | 0.00 |
| 11.26 | 2.00 | 0.00 | 4.37 | 0.02 | 0.00 | 11.28 | 2.00 | 0.00 | 4.36 | 0.02 | 0.00 |
| 11.30 | 1.33 | 0.00 | 4.35 | 0.02 | 0.00 | 11.32 | 1.23 | 0.00 | 4.34 | 0.02 | 0.00 |
| 11.34 | 1.16 | 0.00 | 4.33 | 0.02 | 0.00 | 11.36 | 1.08 | 0.00 | 4.32 | 0.02 | 0.00 |
| 11.38 | 1.05 | 0.00 | 4.31 | 0.02 | 0.00 | 11.40 | 1.06 | 0.00 | 4.30 | 0.02 | 0.00 |
| 11.42 | 1.14 | 0.00 | 4.29 | 0.02 | 0.00 | 11.44 | 1.23 | 0.00 | 4.28 | 0.02 | 0.00 |
| 11.46 | 1.12 | 0.00 | 4.27 | 0.02 | 0.00 | 11.48 | 1.32 | 0.00 | 4.26 | 0.02 | 0.00 |
| 11.50 | 1.35 | 0.00 | 4.25 | 0.02 | 0.00 | 11.52 | 1.37 | 0.00 | 4.24 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 11.54 | 1.38 | 0.00 | 4.23 | 0.02 | 0.00 | 11.56 | 1.36 | 0.00 | 4.22 | 0.02 | 0.00 |
| 11.58 | 1.34 | 0.00 | 4.21 | 0.02 | 0.00 | 11.60 | 1.29 | 0.00 | 4.20 | 0.02 | 0.00 |
| 11.62 | 1.24 | 0.00 | 4.19 | 0.02 | 0.00 | 11.64 | 1.20 | 0.00 | 4.18 | 0.02 | 0.00 |
| 11.66 | 1.21 | 0.00 | 4.17 | 0.02 | 0.00 | 11.68 | 1.28 | 0.00 | 4.16 | 0.02 | 0.00 |
| 11.70 | 1.34 | 0.00 | 4.15 | 0.02 | 0.00 | 11.72 | 1.35 | 0.00 | 4.14 | 0.02 | 0.00 |
| 11.74 | 2.00 | 0.00 | 4.13 | 0.02 | 0.00 | 11.76 | 2.00 | 0.00 | 4.12 | 0.02 | 0.00 |
| 11.78 | 2.00 | 0.00 | 4.11 | 0.02 | 0.00 | 11.80 | 2.00 | 0.00 | 4.10 | 0.02 | 0.00 |
| 11.82 | 2.00 | 0.00 | 4.09 | 0.02 | 0.00 | 11.84 | 2.00 | 0.00 | 4.08 | 0.02 | 0.00 |
| 11.86 | 2.00 | 0.00 | 4.07 | 0.02 | 0.00 | 11.88 | 2.00 | 0.00 | 4.06 | 0.02 | 0.00 |
| 11.90 | 2.00 | 0.00 | 4.05 | 0.02 | 0.00 | 11.92 | 2.00 | 0.00 | 4.04 | 0.02 | 0.00 |
| 11.94 | 2.00 | 0.00 | 4.03 | 0.02 | 0.00 | 11.96 | 2.00 | 0.00 | 4.02 | 0.02 | 0.00 |
| 11.98 | 2.00 | 0.00 | 4.01 | 0.02 | 0.00 | 12.00 | 2.00 | 0.00 | 4.00 | 0.02 | 0.00 |
| 12.02 | 2.00 | 0.00 | 3.99 | 0.02 | 0.00 | 12.04 | 2.00 | 0.00 | 3.98 | 0.02 | 0.00 |
| 12.06 | 2.00 | 0.00 | 3.97 | 0.02 | 0.00 | 12.08 | 2.00 | 0.00 | 3.96 | 0.02 | 0.00 |
| 12.10 | 2.00 | 0.00 | 3.95 | 0.02 | 0.00 | 12.12 | 1.06 | 0.00 | 3.94 | 0.02 | 0.00 |
| 12.14 | 1.46 | 0.00 | 3.93 | 0.02 | 0.00 | 12.16 | 2.00 | 0.00 | 3.92 | 0.02 | 0.00 |
| 12.18 | 2.00 | 0.00 | 3.91 | 0.02 | 0.00 | 12.20 | 2.00 | 0.00 | 3.90 | 0.02 | 0.00 |
| 12.22 | 2.00 | 0.00 | 3.89 | 0.02 | 0.00 | 12.24 | 2.00 | 0.00 | 3.88 | 0.02 | 0.00 |
| 12.26 | 2.00 | 0.00 | 3.87 | 0.02 | 0.00 | 12.28 | 2.00 | 0.00 | 3.86 | 0.02 | 0.00 |
| 12.30 | 2.00 | 0.00 | 3.85 | 0.02 | 0.00 | 12.32 | 2.00 | 0.00 | 3.84 | 0.02 | 0.00 |
| 12.34 | 1.93 | 0.00 | 3.83 | 0.02 | 0.00 | 12.36 | 1.93 | 0.00 | 3.82 | 0.02 | 0.00 |
| 12.38 | 1.93 | 0.00 | 3.81 | 0.02 | 0.00 | 12.40 | 1.92 | 0.00 | 3.80 | 0.02 | 0.00 |
| 12.42 | 1.87 | 0.00 | 3.79 | 0.02 | 0.00 | 12.44 | 2.00 | 0.00 | 3.78 | 0.02 | 0.00 |
| 12.46 | 2.00 | 0.00 | 3.77 | 0.02 | 0.00 | 12.48 | 2.00 | 0.00 | 3.76 | 0.02 | 0.00 |
| 12.50 | 2.00 | 0.00 | 3.75 | 0.02 | 0.00 | 12.52 | 2.00 | 0.00 | 3.74 | 0.02 | 0.00 |
| 12.54 | 2.00 | 0.00 | 3.73 | 0.02 | 0.00 | 12.56 | 2.00 | 0.00 | 3.72 | 0.02 | 0.00 |
| 12.58 | 2.00 | 0.00 | 3.71 | 0.02 | 0.00 | 12.60 | 2.00 | 0.00 | 3.70 | 0.02 | 0.00 |
| 12.62 | 2.00 | 0.00 | 3.69 | 0.02 | 0.00 | 12.64 | 2.00 | 0.00 | 3.68 | 0.02 | 0.00 |
| 12.66 | 2.00 | 0.00 | 3.67 | 0.02 | 0.00 | 12.68 | 2.00 | 0.00 | 3.66 | 0.02 | 0.00 |
| 12.70 | 2.00 | 0.00 | 3.65 | 0.02 | 0.00 | 12.72 | 2.00 | 0.00 | 3.64 | 0.02 | 0.00 |
| 12.74 | 2.00 | 0.00 | 3.63 | 0.02 | 0.00 | 12.76 | 2.00 | 0.00 | 3.62 | 0.02 | 0.00 |
| 12.78 | 1.10 | 0.00 | 3.61 | 0.02 | 0.00 | 12.80 | 1.13 | 0.00 | 3.60 | 0.02 | 0.00 |
| 12.82 | 2.00 | 0.00 | 3.59 | 0.02 | 0.00 | 12.84 | 2.00 | 0.00 | 3.58 | 0.02 | 0.00 |
| 12.86 | 2.00 | 0.00 | 3.57 | 0.02 | 0.00 | 12.88 | 2.00 | 0.00 | 3.56 | 0.02 | 0.00 |
| 12.90 | 2.00 | 0.00 | 3.55 | 0.02 | 0.00 | 12.92 | 2.00 | 0.00 | 3.54 | 0.02 | 0.00 |
| 12.94 | 2.00 | 0.00 | 3.53 | 0.02 | 0.00 | 12.96 | 2.00 | 0.00 | 3.52 | 0.02 | 0.00 |
| 12.98 | 1.04 | 0.00 | 3.51 | 0.02 | 0.00 | 13.00 | 1.06 | 0.00 | 3.50 | 0.02 | 0.00 |
| 13.02 | 2.00 | 0.00 | 3.49 | 0.02 | 0.00 | 13.04 | 2.00 | 0.00 | 3.48 | 0.02 | 0.00 |
| 13.06 | 2.00 | 0.00 | 3.47 | 0.02 | 0.00 | 13.08 | 2.00 | 0.00 | 3.46 | 0.02 | 0.00 |
| 13.10 | 2.00 | 0.00 | 3.45 | 0.02 | 0.00 | 13.12 | 2.00 | 0.00 | 3.44 | 0.02 | 0.00 |
| 13.14 | 2.00 | 0.00 | 3.43 | 0.02 | 0.00 | 13.16 | 2.00 | 0.00 | 3.42 | 0.02 | 0.00 |
| 13.18 | 2.00 | 0.00 | 3.41 | 0.02 | 0.00 | 13.20 | 2.00 | 0.00 | 3.40 | 0.02 | 0.00 |
| 13.22 | 2.00 | 0.00 | 3.39 | 0.02 | 0.00 | 13.24 | 2.00 | 0.00 | 3.38 | 0.02 | 0.00 |
| 13.26 | 2.00 | 0.00 | 3.37 | 0.02 | 0.00 | 13.28 | 2.00 | 0.00 | 3.36 | 0.02 | 0.00 |
| 13.30 | 2.00 | 0.00 | 3.35 | 0.02 | 0.00 | 13.32 | 2.00 | 0.00 | 3.34 | 0.02 | 0.00 |
| 13.34 | 2.00 | 0.00 | 3.33 | 0.02 | 0.00 | 13.36 | 2.00 | 0.00 | 3.32 | 0.02 | 0.00 |
| 13.38 | 2.00 | 0.00 | 3.31 | 0.02 | 0.00 | 13.40 | 2.00 | 0.00 | 3.30 | 0.02 | 0.00 |
| 13.42 | 2.00 | 0.00 | 3.29 | 0.02 | 0.00 | 13.44 | 2.00 | 0.00 | 3.28 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 13.46 | 2.00 | 0.00 | 3.27 | 0.02 | 0.00 | 13.48 | 2.00 | 0.00 | 3.26 | 0.02 | 0.00 |
| 13.50 | 2.00 | 0.00 | 3.25 | 0.02 | 0.00 | 13.52 | 2.00 | 0.00 | 3.24 | 0.02 | 0.00 |
| 13.54 | 2.00 | 0.00 | 3.23 | 0.02 | 0.00 | 13.56 | 2.00 | 0.00 | 3.22 | 0.02 | 0.00 |
| 13.58 | 2.00 | 0.00 | 3.21 | 0.02 | 0.00 | 13.60 | 2.00 | 0.00 | 3.20 | 0.02 | 0.00 |
| 13.62 | 2.00 | 0.00 | 3.19 | 0.02 | 0.00 | 13.64 | 2.00 | 0.00 | 3.18 | 0.02 | 0.00 |
| 13.66 | 2.00 | 0.00 | 3.17 | 0.02 | 0.00 | 13.68 | 2.00 | 0.00 | 3.16 | 0.02 | 0.00 |
| 13.70 | 2.00 | 0.00 | 3.15 | 0.02 | 0.00 | 13.72 | 2.00 | 0.00 | 3.14 | 0.02 | 0.00 |
| 13.74 | 2.00 | 0.00 | 3.13 | 0.02 | 0.00 | 13.76 | 2.00 | 0.00 | 3.12 | 0.02 | 0.00 |
| 13.78 | 2.00 | 0.00 | 3.11 | 0.02 | 0.00 | 13.80 | 2.00 | 0.00 | 3.10 | 0.02 | 0.00 |
| 13.82 | 0.97 | 0.03 | 3.09 | 0.02 | 0.00 | 13.84 | 1.15 | 0.00 | 3.08 | 0.02 | 0.00 |
| 13.86 | 1.60 | 0.00 | 3.07 | 0.02 | 0.00 | 13.88 | 1.95 | 0.00 | 3.06 | 0.02 | 0.00 |
| 13.90 | 2.00 | 0.00 | 3.05 | 0.02 | 0.00 | 13.92 | 1.95 | 0.00 | 3.04 | 0.02 | 0.00 |
| 13.94 | 1.80 | 0.00 | 3.03 | 0.02 | 0.00 | 13.96 | 1.77 | 0.00 | 3.02 | 0.02 | 0.00 |
| 13.98 | 1.75 | 0.00 | 3.01 | 0.02 | 0.00 | 14.00 | 1.70 | 0.00 | 3.00 | 0.02 | 0.00 |
| 14.02 | 1.64 | 0.00 | 2.99 | 0.02 | 0.00 | 14.04 | 1.64 | 0.00 | 2.98 | 0.02 | 0.00 |
| 14.06 | 1.65 | 0.00 | 2.97 | 0.02 | 0.00 | 14.08 | 1.75 | 0.00 | 2.96 | 0.02 | 0.00 |
| 14.10 | 1.97 | 0.00 | 2.95 | 0.02 | 0.00 | 14.12 | 2.00 | 0.00 | 2.94 | 0.02 | 0.00 |
| 14.14 | 2.00 | 0.00 | 2.93 | 0.02 | 0.00 | 14.16 | 2.00 | 0.00 | 2.92 | 0.02 | 0.00 |
| 14.18 | 2.00 | 0.00 | 2.91 | 0.02 | 0.00 | 14.20 | 2.00 | 0.00 | 2.90 | 0.02 | 0.00 |
| 14.22 | 1.81 | 0.00 | 2.89 | 0.02 | 0.00 | 14.24 | 1.70 | 0.00 | 2.88 | 0.02 | 0.00 |
| 14.26 | 1.61 | 0.00 | 2.87 | 0.02 | 0.00 | 14.28 | 1.99 | 0.00 | 2.86 | 0.02 | 0.00 |
| 14.30 | 2.00 | 0.00 | 2.85 | 0.02 | 0.00 | 14.32 | 2.00 | 0.00 | 2.84 | 0.02 | 0.00 |
| 14.34 | 2.00 | 0.00 | 2.83 | 0.02 | 0.00 | 14.36 | 2.00 | 0.00 | 2.82 | 0.02 | 0.00 |
| 14.38 | 2.00 | 0.00 | 2.81 | 0.02 | 0.00 | 14.40 | 2.00 | 0.00 | 2.80 | 0.02 | 0.00 |
| 14.42 | 2.00 | 0.00 | 2.79 | 0.02 | 0.00 | 14.44 | 2.00 | 0.00 | 2.78 | 0.02 | 0.00 |
| 14.46 | 2.00 | 0.00 | 2.77 | 0.02 | 0.00 | 14.48 | 2.00 | 0.00 | 2.76 | 0.02 | 0.00 |
| 14.50 | 2.00 | 0.00 | 2.75 | 0.02 | 0.00 | 14.52 | 2.00 | 0.00 | 2.74 | 0.02 | 0.00 |
| 14.54 | 1.16 | 0.00 | 2.73 | 0.02 | 0.00 | 14.56 | 1.26 | 0.00 | 2.72 | 0.02 | 0.00 |
| 14.58 | 1.38 | 0.00 | 2.71 | 0.02 | 0.00 | 14.60 | 1.39 | 0.00 | 2.70 | 0.02 | 0.00 |
| 14.62 | 1.26 | 0.00 | 2.69 | 0.02 | 0.00 | 14.64 | 1.12 | 0.00 | 2.68 | 0.02 | 0.00 |
| 14.66 | 1.05 | 0.00 | 2.67 | 0.02 | 0.00 | 14.68 | 1.16 | 0.00 | 2.66 | 0.02 | 0.00 |
| 14.70 | 1.31 | 0.00 | 2.65 | 0.02 | 0.00 | 14.72 | 1.65 | 0.00 | 2.64 | 0.02 | 0.00 |
| 14.74 | 1.71 | 0.00 | 2.63 | 0.02 | 0.00 | 14.76 | 1.82 | 0.00 | 2.62 | 0.02 | 0.00 |
| 14.78 | 1.72 | 0.00 | 2.61 | 0.02 | 0.00 | 14.80 | 1.63 | 0.00 | 2.60 | 0.02 | 0.00 |
| 14.82 | 1.55 | 0.00 | 2.59 | 0.02 | 0.00 | 14.84 | 1.51 | 0.00 | 2.58 | 0.02 | 0.00 |
| 14.86 | 1.50 | 0.00 | 2.57 | 0.02 | 0.00 | 14.88 | 1.52 | 0.00 | 2.56 | 0.02 | 0.00 |
| 14.90 | 1.53 | 0.00 | 2.55 | 0.02 | 0.00 | 14.92 | 1.35 | 0.00 | 2.54 | 0.02 | 0.00 |
| 14.94 | 1.34 | 0.00 | 2.53 | 0.02 | 0.00 | 14.96 | 1.33 | 0.00 | 2.52 | 0.02 | 0.00 |
| 14.98 | 1.54 | 0.00 | 2.51 | 0.02 | 0.00 | 15.00 | 1.55 | 0.00 | 2.50 | 0.02 | 0.00 |
| 15.02 | 1.52 | 0.00 | 2.49 | 0.02 | 0.00 | 15.04 | 1.48 | 0.00 | 2.48 | 0.02 | 0.00 |
| 15.06 | 1.50 | 0.00 | 2.47 | 0.02 | 0.00 | 15.08 | 1.59 | 0.00 | 2.46 | 0.02 | 0.00 |
| 15.10 | 1.53 | 0.00 | 2.45 | 0.02 | 0.00 | 15.12 | 1.66 | 0.00 | 2.44 | 0.02 | 0.00 |
| 15.14 | 1.74 | 0.00 | 2.43 | 0.02 | 0.00 | 15.16 | 1.77 | 0.00 | 2.42 | 0.02 | 0.00 |
| 15.18 | 1.96 | 0.00 | 2.41 | 0.02 | 0.00 | 15.20 | 1.96 | 0.00 | 2.40 | 0.02 | 0.00 |
| 15.22 | 1.94 | 0.00 | 2.39 | 0.02 | 0.00 | 15.24 | 1.91 | 0.00 | 2.38 | 0.02 | 0.00 |
| 15.26 | 1.87 | 0.00 | 2.37 | 0.02 | 0.00 | 15.28 | 1.83 | 0.00 | 2.36 | 0.02 | 0.00 |
| 15.30 | 1.79 | 0.00 | 2.35 | 0.02 | 0.00 | 15.32 | 1.73 | 0.00 | 2.34 | 0.02 | 0.00 |
| 15.34 | 1.66 | 0.00 | 2.33 | 0.02 | 0.00 | 15.36 | 1.59 | 0.00 | 2.32 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 15.38 | 1.53 | 0.00 | 2.31 | 0.02 | 0.00 | 15.40 | 1.48 | 0.00 | 2.30 | 0.02 | 0.00 |
| 15.42 | 1.45 | 0.00 | 2.29 | 0.02 | 0.00 | 15.44 | 1.44 | 0.00 | 2.28 | 0.02 | 0.00 |
| 15.46 | 1.42 | 0.00 | 2.27 | 0.02 | 0.00 | 15.48 | 1.41 | 0.00 | 2.26 | 0.02 | 0.00 |
| 15.50 | 1.39 | 0.00 | 2.25 | 0.02 | 0.00 | 15.52 | 1.37 | 0.00 | 2.24 | 0.02 | 0.00 |
| 15.54 | 1.36 | 0.00 | 2.23 | 0.02 | 0.00 | 15.56 | 1.36 | 0.00 | 2.22 | 0.02 | 0.00 |
| 15.58 | 1.36 | 0.00 | 2.21 | 0.02 | 0.00 | 15.60 | 1.36 | 0.00 | 2.20 | 0.02 | 0.00 |
| 15.62 | 1.36 | 0.00 | 2.19 | 0.02 | 0.00 | 15.64 | 1.36 | 0.00 | 2.18 | 0.02 | 0.00 |
| 15.66 | 1.37 | 0.00 | 2.17 | 0.02 | 0.00 | 15.68 | 1.38 | 0.00 | 2.16 | 0.02 | 0.00 |
| 15.70 | 1.40 | 0.00 | 2.15 | 0.02 | 0.00 | 15.72 | 1.44 | 0.00 | 2.14 | 0.02 | 0.00 |
| 15.74 | 1.46 | 0.00 | 2.13 | 0.02 | 0.00 | 15.76 | 1.48 | 0.00 | 2.12 | 0.02 | 0.00 |
| 15.78 | 1.47 | 0.00 | 2.11 | 0.02 | 0.00 | 15.80 | 1.43 | 0.00 | 2.10 | 0.02 | 0.00 |
| 15.82 | 1.38 | 0.00 | 2.09 | 0.02 | 0.00 | 15.84 | 1.36 | 0.00 | 2.08 | 0.02 | 0.00 |
| 15.86 | 1.36 | 0.00 | 2.07 | 0.02 | 0.00 | 15.88 | 1.41 | 0.00 | 2.06 | 0.02 | 0.00 |
| 15.90 | 1.45 | 0.00 | 2.05 | 0.02 | 0.00 | 15.92 | 1.50 | 0.00 | 2.04 | 0.02 | 0.00 |
| 15.94 | 1.53 | 0.00 | 2.03 | 0.02 | 0.00 | 15.96 | 1.55 | 0.00 | 2.02 | 0.02 | 0.00 |
| 15.98 | 1.58 | 0.00 | 2.01 | 0.02 | 0.00 | 16.00 | 1.62 | 0.00 | 2.00 | 0.02 | 0.00 |
| 16.02 | 1.62 | 0.00 | 1.99 | 0.02 | 0.00 | 16.04 | 1.60 | 0.00 | 1.98 | 0.02 | 0.00 |
| 16.06 | 1.56 | 0.00 | 1.97 | 0.02 | 0.00 | 16.08 | 1.59 | 0.00 | 1.96 | 0.02 | 0.00 |
| 16.10 | 1.68 | 0.00 | 1.95 | 0.02 | 0.00 | 16.12 | 1.60 | 0.00 | 1.94 | 0.02 | 0.00 |
| 16.14 | 1.73 | 0.00 | 1.93 | 0.02 | 0.00 | 16.16 | 1.76 | 0.00 | 1.92 | 0.02 | 0.00 |
| 16.18 | 1.89 | 0.00 | 1.91 | 0.02 | 0.00 | 16.20 | 1.78 | 0.00 | 1.90 | 0.02 | 0.00 |
| 16.22 | 1.65 | 0.00 | 1.89 | 0.02 | 0.00 | 16.24 | 1.53 | 0.00 | 1.88 | 0.02 | 0.00 |
| 16.26 | 1.46 | 0.00 | 1.87 | 0.02 | 0.00 | 16.28 | 1.45 | 0.00 | 1.86 | 0.02 | 0.00 |
| 16.30 | 1.48 | 0.00 | 1.85 | 0.02 | 0.00 | 16.32 | 1.54 | 0.00 | 1.84 | 0.02 | 0.00 |
| 16.34 | 1.56 | 0.00 | 1.83 | 0.02 | 0.00 | 16.36 | 1.54 | 0.00 | 1.82 | 0.02 | 0.00 |
| 16.38 | 1.48 | 0.00 | 1.81 | 0.02 | 0.00 | 16.40 | 1.45 | 0.00 | 1.80 | 0.02 | 0.00 |
| 16.42 | 1.42 | 0.00 | 1.79 | 0.02 | 0.00 | 16.44 | 1.40 | 0.00 | 1.78 | 0.02 | 0.00 |
| 16.46 | 1.41 | 0.00 | 1.77 | 0.02 | 0.00 | 16.48 | 1.42 | 0.00 | 1.76 | 0.02 | 0.00 |
| 16.50 | 1.44 | 0.00 | 1.75 | 0.02 | 0.00 | 16.52 | 1.44 | 0.00 | 1.74 | 0.02 | 0.00 |
| 16.54 | 1.47 | 0.00 | 1.73 | 0.02 | 0.00 | 16.56 | 1.53 | 0.00 | 1.72 | 0.02 | 0.00 |
| 16.58 | 1.62 | 0.00 | 1.71 | 0.02 | 0.00 | 16.60 | 1.73 | 0.00 | 1.70 | 0.02 | 0.00 |
| 16.62 | 1.81 | 0.00 | 1.69 | 0.02 | 0.00 | 16.64 | 1.92 | 0.00 | 1.68 | 0.02 | 0.00 |
| 16.66 | 2.00 | 0.00 | 1.67 | 0.02 | 0.00 | 16.68 | 2.00 | 0.00 | 1.66 | 0.02 | 0.00 |
| 16.70 | 2.00 | 0.00 | 1.65 | 0.02 | 0.00 | 16.72 | 2.00 | 0.00 | 1.64 | 0.02 | 0.00 |
| 16.74 | 1.83 | 0.00 | 1.63 | 0.02 | 0.00 | 16.76 | 1.68 | 0.00 | 1.62 | 0.02 | 0.00 |
| 16.78 | 1.55 | 0.00 | 1.61 | 0.02 | 0.00 | 16.80 | 1.50 | 0.00 | 1.60 | 0.02 | 0.00 |
| 16.82 | 1.52 | 0.00 | 1.59 | 0.02 | 0.00 | 16.84 | 1.56 | 0.00 | 1.58 | 0.02 | 0.00 |
| 16.86 | 1.62 | 0.00 | 1.57 | 0.02 | 0.00 | 16.88 | 1.67 | 0.00 | 1.56 | 0.02 | 0.00 |
| 16.90 | 1.67 | 0.00 | 1.55 | 0.02 | 0.00 | 16.92 | 1.63 | 0.00 | 1.54 | 0.02 | 0.00 |
| 16.94 | 1.56 | 0.00 | 1.53 | 0.02 | 0.00 | 16.96 | 1.53 | 0.00 | 1.52 | 0.02 | 0.00 |
| 16.98 | 1.52 | 0.00 | 1.51 | 0.02 | 0.00 | 17.00 | 1.51 | 0.00 | 1.50 | 0.02 | 0.00 |
| 17.02 | 1.52 | 0.00 | 1.49 | 0.02 | 0.00 | 17.04 | 1.55 | 0.00 | 1.48 | 0.02 | 0.00 |
| 17.06 | 1.60 | 0.00 | 1.47 | 0.02 | 0.00 | 17.08 | 1.67 | 0.00 | 1.46 | 0.02 | 0.00 |
| 17.10 | 1.71 | 0.00 | 1.45 | 0.02 | 0.00 | 17.12 | 2.00 | 0.00 | 1.44 | 0.02 | 0.00 |
| 17.14 | 2.00 | 0.00 | 1.43 | 0.02 | 0.00 | 17.16 | 2.00 | 0.00 | 1.42 | 0.02 | 0.00 |
| 17.18 | 1.72 | 0.00 | 1.41 | 0.02 | 0.00 | 17.20 | 1.70 | 0.00 | 1.40 | 0.02 | 0.00 |
| 17.22 | 1.68 | 0.00 | 1.39 | 0.02 | 0.00 | 17.24 | 2.00 | 0.00 | 1.38 | 0.02 | 0.00 |
| 17.26 | 2.00 | 0.00 | 1.37 | 0.02 | 0.00 | 17.28 | 1.54 | 0.00 | 1.36 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 17.30 | 1.47 | 0.00 | 1.35 | 0.02 | 0.00 | 17.32 | 1.46 | 0.00 | 1.34 | 0.02 | 0.00 |
| 17.34 | 1.44 | 0.00 | 1.33 | 0.02 | 0.00 | 17.36 | 1.41 | 0.00 | 1.32 | 0.02 | 0.00 |
| 17.38 | 1.41 | 0.00 | 1.31 | 0.02 | 0.00 | 17.40 | 1.42 | 0.00 | 1.30 | 0.02 | 0.00 |
| 17.42 | 1.43 | 0.00 | 1.29 | 0.02 | 0.00 | 17.44 | 1.44 | 0.00 | 1.28 | 0.02 | 0.00 |
| 17.46 | 1.42 | 0.00 | 1.27 | 0.02 | 0.00 | 17.48 | 1.46 | 0.00 | 1.26 | 0.02 | 0.00 |
| 17.50 | 1.52 | 0.00 | 1.25 | 0.02 | 0.00 | 17.52 | 2.00 | 0.00 | 1.24 | 0.02 | 0.00 |
| 17.54 | 2.00 | 0.00 | 1.23 | 0.02 | 0.00 | 17.56 | 2.00 | 0.00 | 1.22 | 0.02 | 0.00 |
| 17.58 | 2.00 | 0.00 | 1.21 | 0.02 | 0.00 | 17.60 | 2.00 | 0.00 | 1.20 | 0.02 | 0.00 |
| 17.62 | 2.00 | 0.00 | 1.19 | 0.02 | 0.00 | 17.64 | 2.00 | 0.00 | 1.18 | 0.02 | 0.00 |
| 17.66 | 2.00 | 0.00 | 1.17 | 0.02 | 0.00 | 17.68 | 1.52 | 0.00 | 1.16 | 0.02 | 0.00 |
| 17.70 | 1.48 | 0.00 | 1.15 | 0.02 | 0.00 | 17.72 | 1.43 | 0.00 | 1.14 | 0.02 | 0.00 |
| 17.74 | 1.35 | 0.00 | 1.13 | 0.02 | 0.00 | 17.76 | 1.30 | 0.00 | 1.12 | 0.02 | 0.00 |
| 17.78 | 1.30 | 0.00 | 1.11 | 0.02 | 0.00 | 17.80 | 1.36 | 0.00 | 1.10 | 0.02 | 0.00 |
| 17.82 | 1.43 | 0.00 | 1.09 | 0.02 | 0.00 | 17.84 | 2.00 | 0.00 | 1.08 | 0.02 | 0.00 |
| 17.86 | 2.00 | 0.00 | 1.07 | 0.02 | 0.00 | 17.88 | 2.00 | 0.00 | 1.06 | 0.02 | 0.00 |
| 17.90 | 2.00 | 0.00 | 1.05 | 0.02 | 0.00 | 17.92 | 2.00 | 0.00 | 1.04 | 0.02 | 0.00 |
| 17.94 | 2.00 | 0.00 | 1.03 | 0.02 | 0.00 | 17.96 | 2.00 | 0.00 | 1.02 | 0.02 | 0.00 |
| 17.98 | 2.00 | 0.00 | 1.01 | 0.02 | 0.00 | 18.00 | 2.00 | 0.00 | 1.00 | 0.02 | 0.00 |
| 18.02 | 2.00 | 0.00 | 0.99 | 0.02 | 0.00 | 18.04 | 2.00 | 0.00 | 0.98 | 0.02 | 0.00 |
| 18.06 | 2.00 | 0.00 | 0.97 | 0.02 | 0.00 | 18.08 | 2.00 | 0.00 | 0.96 | 0.02 | 0.00 |
| 18.10 | 2.00 | 0.00 | 0.95 | 0.02 | 0.00 | 18.12 | 2.00 | 0.00 | 0.94 | 0.02 | 0.00 |
| 18.14 | 2.00 | 0.00 | 0.93 | 0.02 | 0.00 | 18.16 | 2.00 | 0.00 | 0.92 | 0.02 | 0.00 |
| 18.18 | 2.00 | 0.00 | 0.91 | 0.02 | 0.00 | 18.20 | 2.00 | 0.00 | 0.90 | 0.02 | 0.00 |
| 18.22 | 2.00 | 0.00 | 0.89 | 0.02 | 0.00 | 18.24 | 2.00 | 0.00 | 0.88 | 0.02 | 0.00 |
| 18.26 | 2.00 | 0.00 | 0.87 | 0.02 | 0.00 | 18.28 | 2.00 | 0.00 | 0.86 | 0.02 | 0.00 |
| 18.30 | 2.00 | 0.00 | 0.85 | 0.02 | 0.00 | 18.32 | 2.00 | 0.00 | 0.84 | 0.02 | 0.00 |
| 18.34 | 2.00 | 0.00 | 0.83 | 0.02 | 0.00 | 18.36 | 2.00 | 0.00 | 0.82 | 0.02 | 0.00 |
| 18.38 | 2.00 | 0.00 | 0.81 | 0.02 | 0.00 | 18.40 | 2.00 | 0.00 | 0.80 | 0.02 | 0.00 |
| 18.42 | 2.00 | 0.00 | 0.79 | 0.02 | 0.00 | 18.44 | 2.00 | 0.00 | 0.78 | 0.02 | 0.00 |
| 18.46 | 2.00 | 0.00 | 0.77 | 0.02 | 0.00 | 18.48 | 2.00 | 0.00 | 0.76 | 0.02 | 0.00 |
| 18.50 | 2.00 | 0.00 | 0.75 | 0.02 | 0.00 | 18.52 | 2.00 | 0.00 | 0.74 | 0.02 | 0.00 |
| 18.54 | 2.00 | 0.00 | 0.73 | 0.02 | 0.00 | 18.56 | 2.00 | 0.00 | 0.72 | 0.02 | 0.00 |
| 18.58 | 2.00 | 0.00 | 0.71 | 0.02 | 0.00 | 18.60 | 2.00 | 0.00 | 0.70 | 0.02 | 0.00 |
| 18.62 | 2.00 | 0.00 | 0.69 | 0.02 | 0.00 | 18.64 | 2.00 | 0.00 | 0.68 | 0.02 | 0.00 |
| 18.66 | 2.00 | 0.00 | 0.67 | 0.02 | 0.00 | 18.68 | 2.00 | 0.00 | 0.66 | 0.02 | 0.00 |
| 18.70 | 2.00 | 0.00 | 0.65 | 0.02 | 0.00 | 18.72 | 2.00 | 0.00 | 0.64 | 0.02 | 0.00 |
| 18.74 | 2.00 | 0.00 | 0.63 | 0.02 | 0.00 | 18.76 | 2.00 | 0.00 | 0.62 | 0.02 | 0.00 |
| 18.78 | 2.00 | 0.00 | 0.61 | 0.02 | 0.00 | 18.80 | 2.00 | 0.00 | 0.60 | 0.02 | 0.00 |
| 18.82 | 2.00 | 0.00 | 0.59 | 0.02 | 0.00 | 18.84 | 2.00 | 0.00 | 0.58 | 0.02 | 0.00 |
| 18.86 | 2.00 | 0.00 | 0.57 | 0.02 | 0.00 | 18.88 | 2.00 | 0.00 | 0.56 | 0.02 | 0.00 |
| 18.90 | 2.00 | 0.00 | 0.55 | 0.02 | 0.00 | 18.92 | 2.00 | 0.00 | 0.54 | 0.02 | 0.00 |
| 18.94 | 2.00 | 0.00 | 0.53 | 0.02 | 0.00 | 18.96 | 2.00 | 0.00 | 0.52 | 0.02 | 0.00 |
| 18.98 | 2.00 | 0.00 | 0.51 | 0.02 | 0.00 | 19.00 | 2.00 | 0.00 | 0.50 | 0.02 | 0.00 |
| 19.02 | 2.00 | 0.00 | 0.49 | 0.02 | 0.00 | 19.04 | 2.00 | 0.00 | 0.48 | 0.02 | 0.00 |
| 19.06 | 2.00 | 0.00 | 0.47 | 0.02 | 0.00 | 19.08 | 2.00 | 0.00 | 0.46 | 0.02 | 0.00 |
| 19.10 | 2.00 | 0.00 | 0.45 | 0.02 | 0.00 | 19.12 | 2.00 | 0.00 | 0.44 | 0.02 | 0.00 |
| 19.14 | 2.00 | 0.00 | 0.43 | 0.02 | 0.00 | 19.16 | 2.00 | 0.00 | 0.42 | 0.02 | 0.00 |
| 19.18 | 2.00 | 0.00 | 0.41 | 0.02 | 0.00 | 19.20 | 2.00 | 0.00 | 0.40 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 19.22 | 2.00 | 0.00 | 0.39 | 0.02 | 0.00 | 19.24 | 2.00 | 0.00 | 0.38 | 0.02 | 0.00 |
| 19.26 | 2.00 | 0.00 | 0.37 | 0.02 | 0.00 | 19.28 | 2.00 | 0.00 | 0.36 | 0.02 | 0.00 |
| 19.30 | 2.00 | 0.00 | 0.35 | 0.02 | 0.00 | 19.32 | 2.00 | 0.00 | 0.34 | 0.02 | 0.00 |
| 19.34 | 2.00 | 0.00 | 0.33 | 0.02 | 0.00 | 19.36 | 2.00 | 0.00 | 0.32 | 0.02 | 0.00 |
| 19.38 | 2.00 | 0.00 | 0.31 | 0.02 | 0.00 | 19.40 | 2.00 | 0.00 | 0.30 | 0.02 | 0.00 |
| 19.42 | 2.00 | 0.00 | 0.29 | 0.02 | 0.00 | 19.44 | 2.00 | 0.00 | 0.28 | 0.02 | 0.00 |
| 19.46 | 2.00 | 0.00 | 0.27 | 0.02 | 0.00 | 19.48 | 2.00 | 0.00 | 0.26 | 0.02 | 0.00 |
| 19.50 | 2.00 | 0.00 | 0.25 | 0.02 | 0.00 | 19.52 | 2.00 | 0.00 | 0.24 | 0.02 | 0.00 |
| 19.54 | 2.00 | 0.00 | 0.23 | 0.02 | 0.00 | 19.56 | 2.00 | 0.00 | 0.22 | 0.02 | 0.00 |
| 19.58 | 2.00 | 0.00 | 0.21 | 0.02 | 0.00 | 19.60 | 1.54 | 0.00 | 0.20 | 0.02 | 0.00 |
| 19.62 | 1.70 | 0.00 | 0.19 | 0.02 | 0.00 | 19.64 | 2.00 | 0.00 | 0.18 | 0.02 | 0.00 |
| 19.66 | 2.00 | 0.00 | 0.17 | 0.02 | 0.00 | 19.68 | 2.00 | 0.00 | 0.16 | 0.02 | 0.00 |
| 19.70 | 2.00 | 0.00 | 0.15 | 0.02 | 0.00 | 19.72 | 2.00 | 0.00 | 0.14 | 0.02 | 0.00 |
| 19.74 | 2.00 | 0.00 | 0.13 | 0.02 | 0.00 | 19.76 | 2.00 | 0.00 | 0.12 | 0.02 | 0.00 |
| 19.78 | 2.00 | 0.00 | 0.11 | 0.02 | 0.00 | 19.80 | 2.00 | 0.00 | 0.10 | 0.02 | 0.00 |
| 19.82 | 2.00 | 0.00 | 0.09 | 0.02 | 0.00 | 19.84 | 2.00 | 0.00 | 0.08 | 0.02 | 0.00 |
| 19.86 | 2.00 | 0.00 | 0.07 | 0.02 | 0.00 | 19.88 | 2.00 | 0.00 | 0.06 | 0.02 | 0.00 |
| 19.90 | 2.00 | 0.00 | 0.05 | 0.02 | 0.00 | | | | | | |

Overall liquefaction potential: 0.02

LPI = 0.00 - Liquefaction risk very low
 LPI between 0.00 and 5.00 - Liquefaction risk low
 LPI between 5.00 and 15.00 - Liquefaction risk high
 LPI > 15.00 - Liquefaction risk very high

Abbreviations

FS: Calculated factor of safety for test point
 F_L: 1 - FS
 w_z: Function value of the extend of soil liquefaction according to depth
 d_z: Layer thickness (m)
 LPI: Liquefaction potential index value for test point

LIQUEFACTION ANALYSIS REPORT

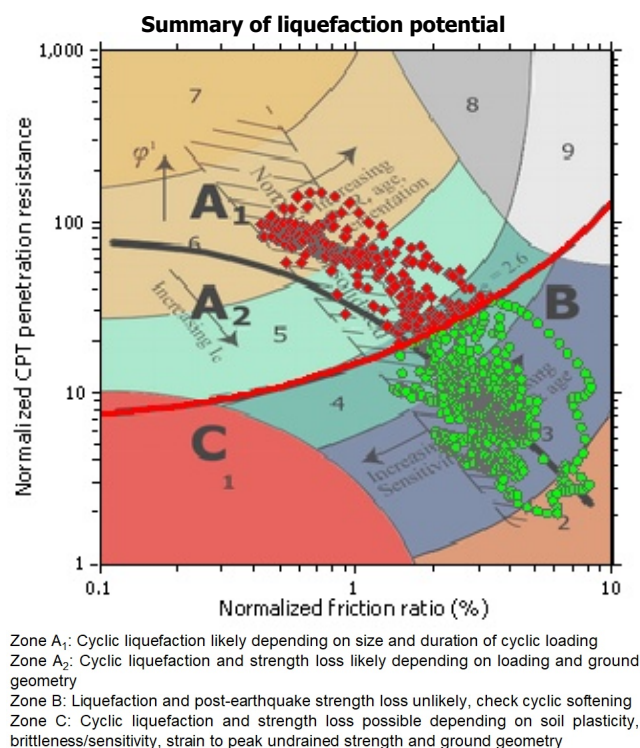
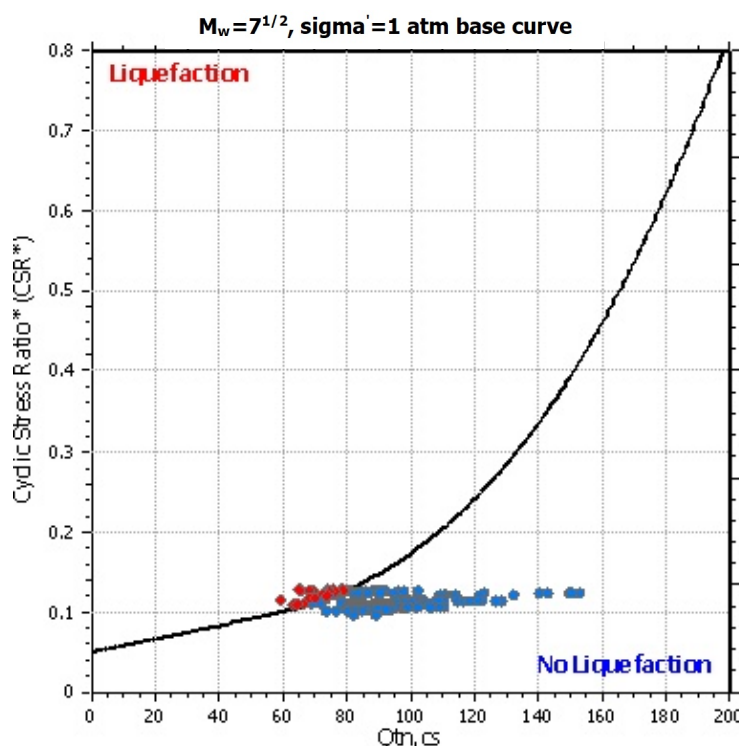
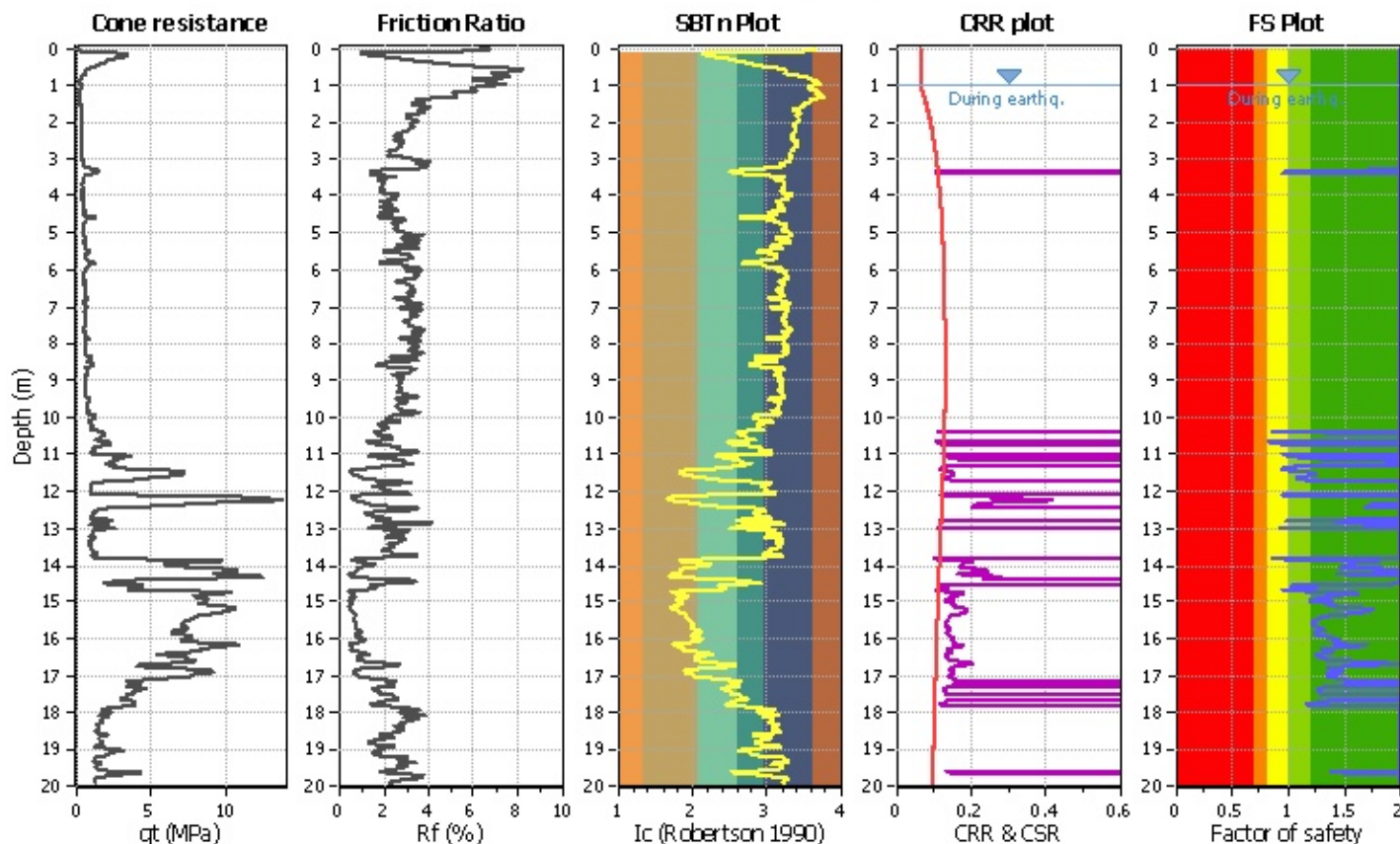
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Location :

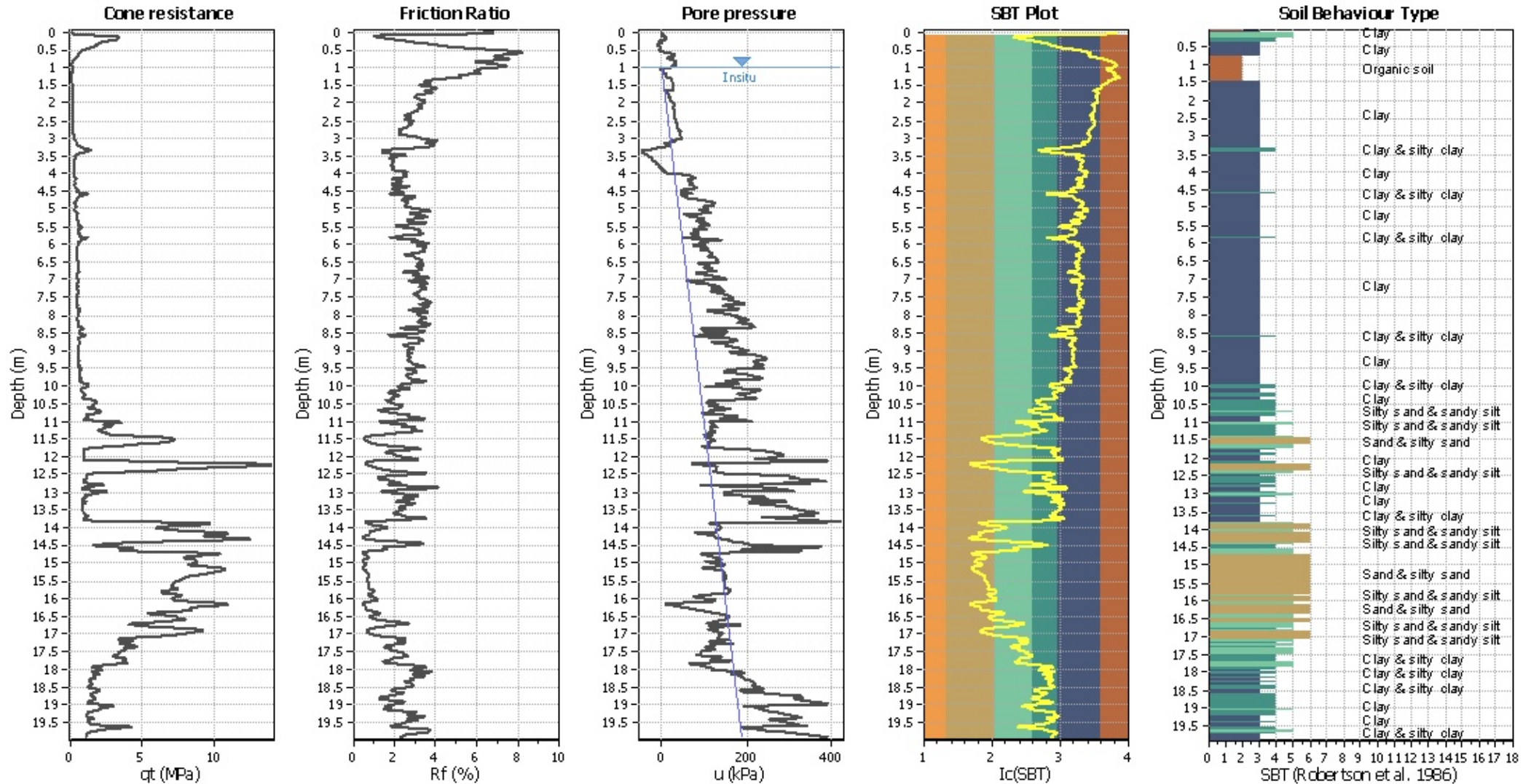
CPT file : CPTU1

Input parameters and analysis data

| | | | | | | | |
|------------------------------|-------------------|---------------------------|--------------|-------------------------|-----|----------------------|--------------|
| Analysis method: | NCEER (1998) | G.W.T. (in-situ): | 1.00 m | Use fill: | No | Clay like behavior | |
| Fines correction method: | NCEER (1998) | G.W.T. (earthq.): | 1.00 m | Fill height: | N/A | applied: | Sands only |
| Points to test: | Based on Ic value | Average results interval: | 3 | Fill weight: | N/A | Limit depth applied: | No |
| Earthquake magnitude M_w : | 6.00 | Ic cut-off value: | 2.60 | Trans. detect. applied: | No | Limit depth: | N/A |
| Peak ground acceleration: | 0.17 | Unit weight calculation: | Based on SBT | K_0 applied: | Yes | MSF method: | Method based |



CPT basic interpretation plo



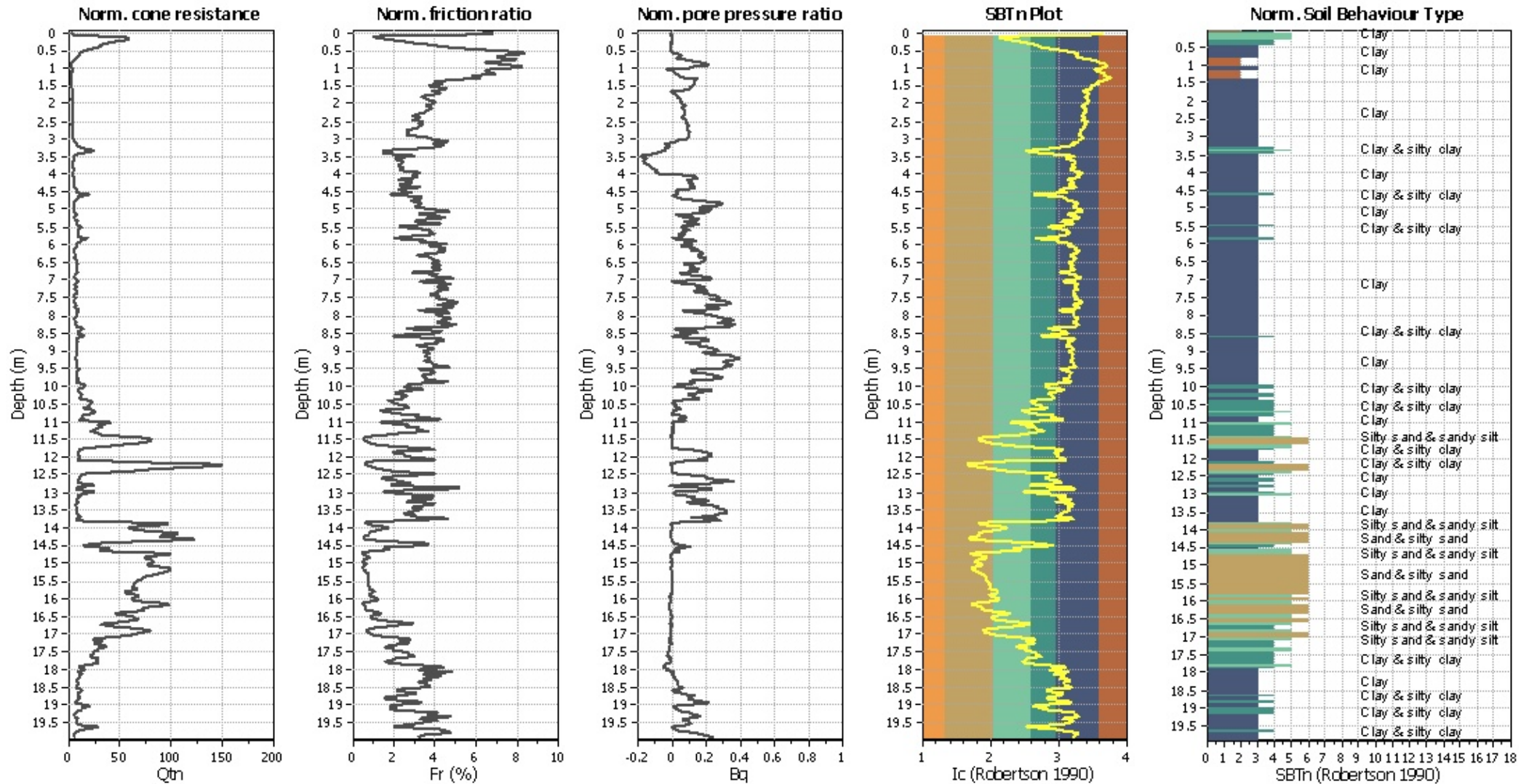
Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 6.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

SBT legend

| | | |
|---------------------------|-----------------------------|----------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty | 7. Gravely sand to sand |
| 2. Organic material | 5. Silty sand to sandy silt | 8. Very stiff sand to |
| 3. Clay to silty clay | 6. Clean sand to silty sand | 9. Very stiff fine grained |

CPT basic interpretation plots (normaliz



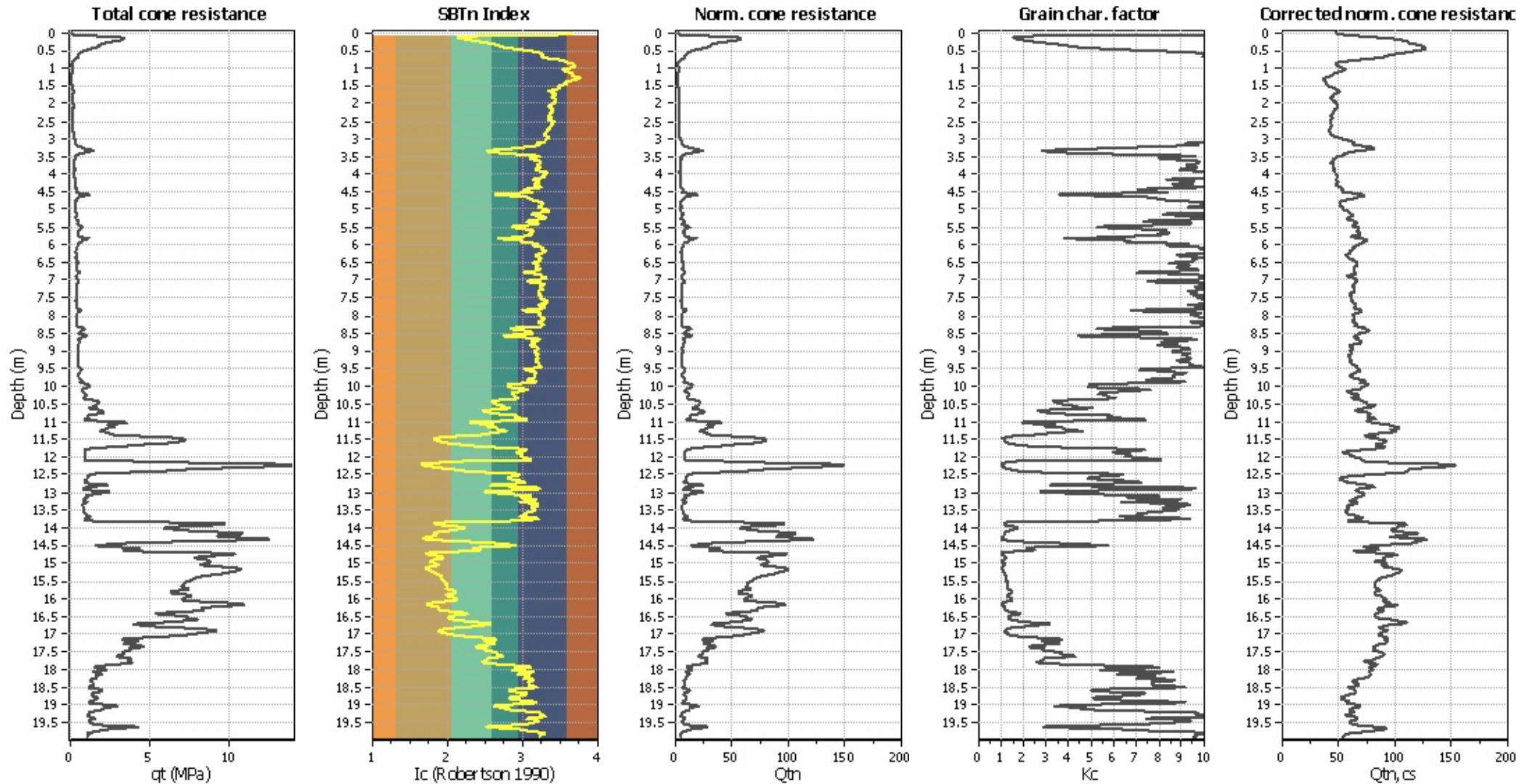
Input parameters and analysis data

| | | | | | |
|---------------------------------------|-------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K ₀ applied: | Yes |
| Earthquake magnitude M _w : | 6.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

SBTn legend

| | | |
|---------------------------|-----------------------------|----------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty | 7. Gravely sand to sand |
| 2. Organic material | 5. Silty sand to sandy silt | 8. Very stiff sand to |
| 3. Clay to silty clay | 6. Clean sand to silty sand | 9. Very stiff fine grained |

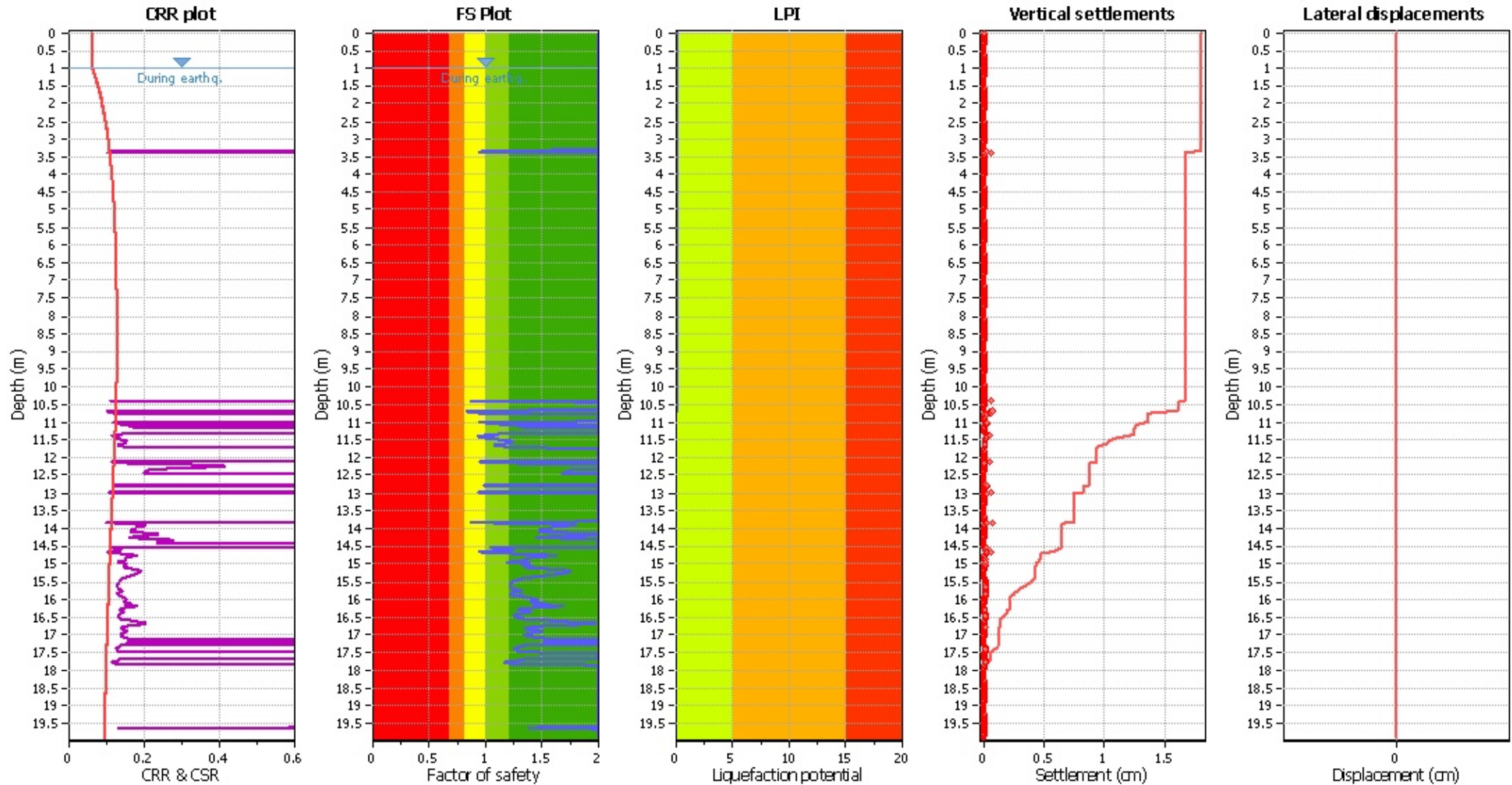
Liquefaction analysis overall plots (intermediate res)



Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_{σ} applied: | Yes |
| Earthquake magnitude M_w : | 6.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

Liquefaction analysis overall plot



Input parameters and analysis data

| | | | | | |
|--------------------------------|-------------------|---------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (earthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 6.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

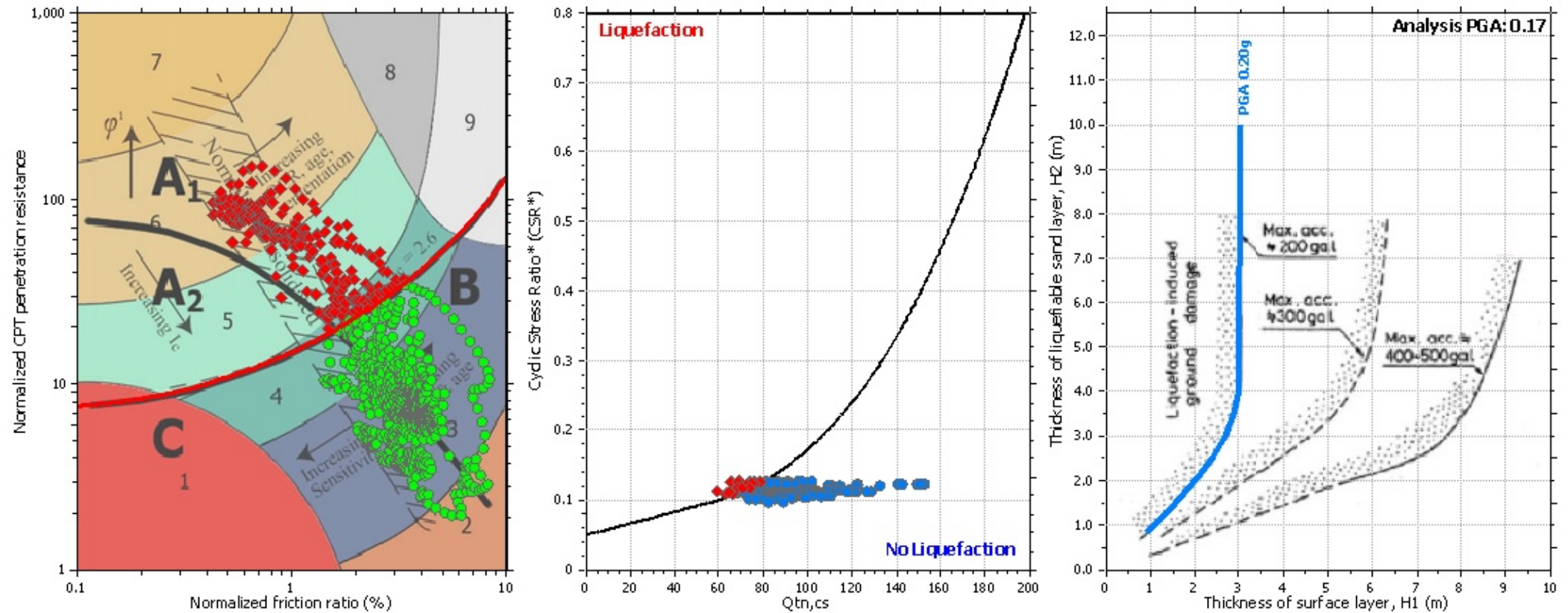
F.S. color scheme

| | |
|---|---|
| ■ | Almost certain it will liquefy |
| ■ | Very likely to liquefy |
| ■ | Liquefaction and no liq. are equally likely |
| ■ | Unlike to liquefy |
| ■ | Almost certain it will not liquefy |

LPI color scheme

| | |
|---------------------------------------|----------------|
| ■ | Very high risk |
| ■ | High risk |
| ■ | Low risk |

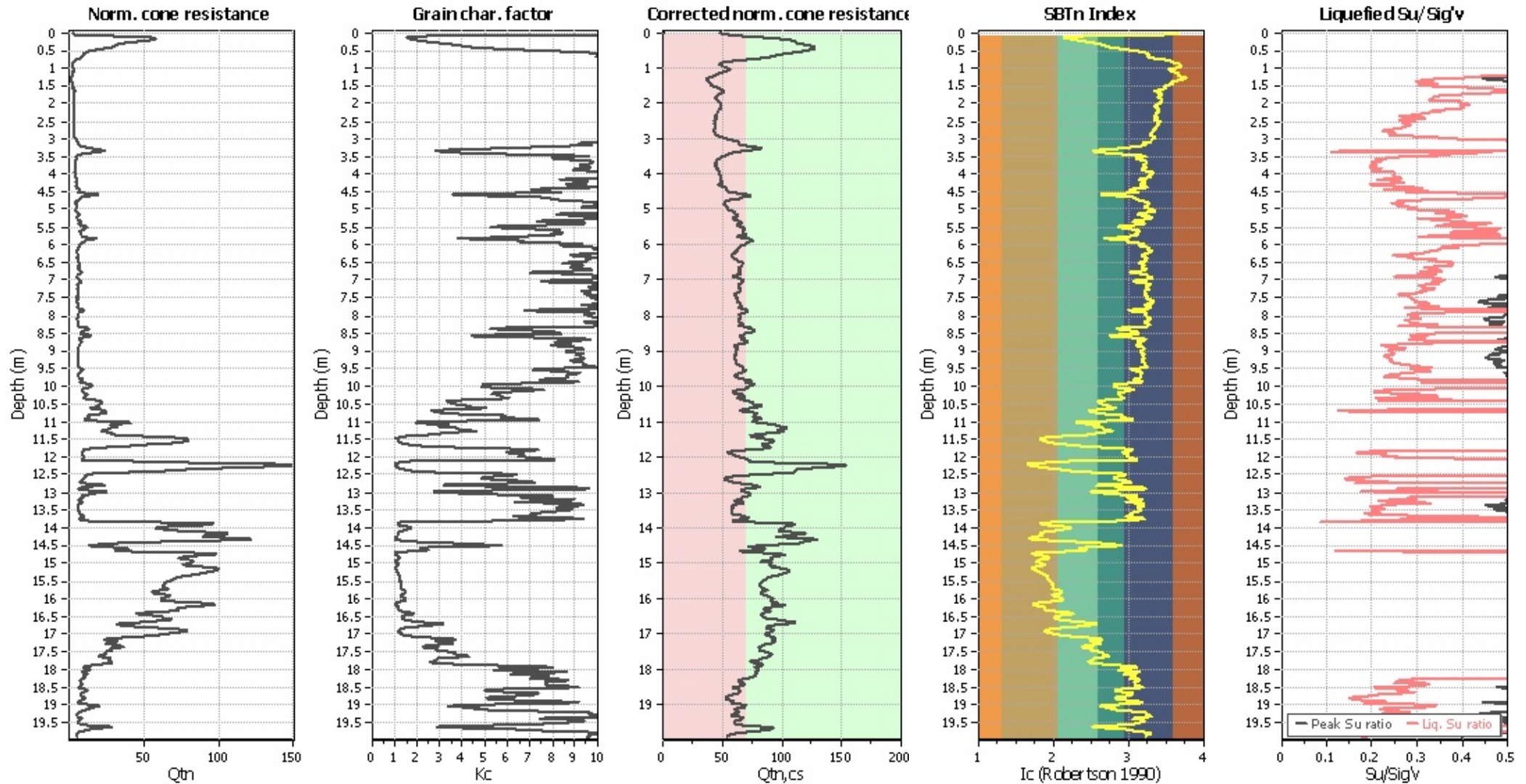
Liquefaction analysis summary plo



Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|---------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (earthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 6.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

Check for strength loss plots (Robertson (2010))



Input parameters and analysis data

| | | | | | |
|---------------------------------------|-------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K ₀ applied: | Yes |
| Earthquake magnitude M _w : | 6.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

| :: Liquefaction Potential Index calculation data :: | | | | | | | | | | | |
|---|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
| 0.02 | 2.00 | 0.00 | 9.99 | 0.02 | 0.00 | 0.04 | 2.00 | 0.00 | 9.98 | 0.02 | 0.00 |
| 0.06 | 2.00 | 0.00 | 9.97 | 0.02 | 0.00 | 0.08 | 2.00 | 0.00 | 9.96 | 0.02 | 0.00 |
| 0.10 | 2.00 | 0.00 | 9.95 | 0.02 | 0.00 | 0.12 | 2.00 | 0.00 | 9.94 | 0.02 | 0.00 |
| 0.14 | 2.00 | 0.00 | 9.93 | 0.02 | 0.00 | 0.16 | 2.00 | 0.00 | 9.92 | 0.02 | 0.00 |
| 0.18 | 2.00 | 0.00 | 9.91 | 0.02 | 0.00 | 0.20 | 2.00 | 0.00 | 9.90 | 0.02 | 0.00 |
| 0.22 | 2.00 | 0.00 | 9.89 | 0.02 | 0.00 | 0.24 | 2.00 | 0.00 | 9.88 | 0.02 | 0.00 |
| 0.26 | 2.00 | 0.00 | 9.87 | 0.02 | 0.00 | 0.28 | 2.00 | 0.00 | 9.86 | 0.02 | 0.00 |
| 0.30 | 2.00 | 0.00 | 9.85 | 0.02 | 0.00 | 0.32 | 2.00 | 0.00 | 9.84 | 0.02 | 0.00 |
| 0.34 | 2.00 | 0.00 | 9.83 | 0.02 | 0.00 | 0.36 | 2.00 | 0.00 | 9.82 | 0.02 | 0.00 |
| 0.38 | 2.00 | 0.00 | 9.81 | 0.02 | 0.00 | 0.40 | 2.00 | 0.00 | 9.80 | 0.02 | 0.00 |
| 0.42 | 2.00 | 0.00 | 9.79 | 0.02 | 0.00 | 0.44 | 2.00 | 0.00 | 9.78 | 0.02 | 0.00 |
| 0.46 | 2.00 | 0.00 | 9.77 | 0.02 | 0.00 | 0.48 | 2.00 | 0.00 | 9.76 | 0.02 | 0.00 |
| 0.50 | 2.00 | 0.00 | 9.75 | 0.02 | 0.00 | 0.52 | 2.00 | 0.00 | 9.74 | 0.02 | 0.00 |
| 0.54 | 2.00 | 0.00 | 9.73 | 0.02 | 0.00 | 0.56 | 2.00 | 0.00 | 9.72 | 0.02 | 0.00 |
| 0.58 | 2.00 | 0.00 | 9.71 | 0.02 | 0.00 | 0.60 | 2.00 | 0.00 | 9.70 | 0.02 | 0.00 |
| 0.62 | 2.00 | 0.00 | 9.69 | 0.02 | 0.00 | 0.64 | 2.00 | 0.00 | 9.68 | 0.02 | 0.00 |
| 0.66 | 2.00 | 0.00 | 9.67 | 0.02 | 0.00 | 0.68 | 2.00 | 0.00 | 9.66 | 0.02 | 0.00 |
| 0.70 | 2.00 | 0.00 | 9.65 | 0.02 | 0.00 | 0.72 | 2.00 | 0.00 | 9.64 | 0.02 | 0.00 |
| 0.74 | 2.00 | 0.00 | 9.63 | 0.02 | 0.00 | 0.76 | 2.00 | 0.00 | 9.62 | 0.02 | 0.00 |
| 0.78 | 2.00 | 0.00 | 9.61 | 0.02 | 0.00 | 0.80 | 2.00 | 0.00 | 9.60 | 0.02 | 0.00 |
| 0.82 | 2.00 | 0.00 | 9.59 | 0.02 | 0.00 | 0.84 | 2.00 | 0.00 | 9.58 | 0.02 | 0.00 |
| 0.86 | 2.00 | 0.00 | 9.57 | 0.02 | 0.00 | 0.88 | 2.00 | 0.00 | 9.56 | 0.02 | 0.00 |
| 0.90 | 2.00 | 0.00 | 9.55 | 0.02 | 0.00 | 0.92 | 2.00 | 0.00 | 9.54 | 0.02 | 0.00 |
| 0.94 | 2.00 | 0.00 | 9.53 | 0.02 | 0.00 | 0.96 | 2.00 | 0.00 | 9.52 | 0.02 | 0.00 |
| 0.98 | 2.00 | 0.00 | 9.51 | 0.02 | 0.00 | 1.00 | 2.00 | 0.00 | 9.50 | 0.02 | 0.00 |
| 1.02 | 2.00 | 0.00 | 9.49 | 0.02 | 0.00 | 1.04 | 2.00 | 0.00 | 9.48 | 0.02 | 0.00 |
| 1.06 | 2.00 | 0.00 | 9.47 | 0.02 | 0.00 | 1.08 | 2.00 | 0.00 | 9.46 | 0.02 | 0.00 |
| 1.10 | 2.00 | 0.00 | 9.45 | 0.02 | 0.00 | 1.12 | 2.00 | 0.00 | 9.44 | 0.02 | 0.00 |
| 1.14 | 2.00 | 0.00 | 9.43 | 0.02 | 0.00 | 1.16 | 2.00 | 0.00 | 9.42 | 0.02 | 0.00 |
| 1.18 | 2.00 | 0.00 | 9.41 | 0.02 | 0.00 | 1.20 | 2.00 | 0.00 | 9.40 | 0.02 | 0.00 |
| 1.22 | 2.00 | 0.00 | 9.39 | 0.02 | 0.00 | 1.24 | 2.00 | 0.00 | 9.38 | 0.02 | 0.00 |
| 1.26 | 2.00 | 0.00 | 9.37 | 0.02 | 0.00 | 1.28 | 2.00 | 0.00 | 9.36 | 0.02 | 0.00 |
| 1.30 | 2.00 | 0.00 | 9.35 | 0.02 | 0.00 | 1.32 | 2.00 | 0.00 | 9.34 | 0.02 | 0.00 |
| 1.34 | 2.00 | 0.00 | 9.33 | 0.02 | 0.00 | 1.36 | 2.00 | 0.00 | 9.32 | 0.02 | 0.00 |
| 1.38 | 2.00 | 0.00 | 9.31 | 0.02 | 0.00 | 1.40 | 2.00 | 0.00 | 9.30 | 0.02 | 0.00 |
| 1.42 | 2.00 | 0.00 | 9.29 | 0.02 | 0.00 | 1.44 | 2.00 | 0.00 | 9.28 | 0.02 | 0.00 |
| 1.46 | 2.00 | 0.00 | 9.27 | 0.02 | 0.00 | 1.48 | 2.00 | 0.00 | 9.26 | 0.02 | 0.00 |
| 1.50 | 2.00 | 0.00 | 9.25 | 0.02 | 0.00 | 1.52 | 2.00 | 0.00 | 9.24 | 0.02 | 0.00 |
| 1.54 | 2.00 | 0.00 | 9.23 | 0.02 | 0.00 | 1.56 | 2.00 | 0.00 | 9.22 | 0.02 | 0.00 |
| 1.58 | 2.00 | 0.00 | 9.21 | 0.02 | 0.00 | 1.60 | 2.00 | 0.00 | 9.20 | 0.02 | 0.00 |
| 1.62 | 2.00 | 0.00 | 9.19 | 0.02 | 0.00 | 1.64 | 2.00 | 0.00 | 9.18 | 0.02 | 0.00 |
| 1.66 | 2.00 | 0.00 | 9.17 | 0.02 | 0.00 | 1.68 | 2.00 | 0.00 | 9.16 | 0.02 | 0.00 |
| 1.70 | 2.00 | 0.00 | 9.15 | 0.02 | 0.00 | 1.72 | 2.00 | 0.00 | 9.14 | 0.02 | 0.00 |
| 1.74 | 2.00 | 0.00 | 9.13 | 0.02 | 0.00 | 1.76 | 2.00 | 0.00 | 9.12 | 0.02 | 0.00 |
| 1.78 | 2.00 | 0.00 | 9.11 | 0.02 | 0.00 | 1.80 | 2.00 | 0.00 | 9.10 | 0.02 | 0.00 |
| 1.82 | 2.00 | 0.00 | 9.09 | 0.02 | 0.00 | 1.84 | 2.00 | 0.00 | 9.08 | 0.02 | 0.00 |
| 1.86 | 2.00 | 0.00 | 9.07 | 0.02 | 0.00 | 1.88 | 2.00 | 0.00 | 9.06 | 0.02 | 0.00 |
| 1.90 | 2.00 | 0.00 | 9.05 | 0.02 | 0.00 | 1.92 | 2.00 | 0.00 | 9.04 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 1.94 | 2.00 | 0.00 | 9.03 | 0.02 | 0.00 | 1.96 | 2.00 | 0.00 | 9.02 | 0.02 | 0.00 |
| 1.98 | 2.00 | 0.00 | 9.01 | 0.02 | 0.00 | 2.00 | 2.00 | 0.00 | 9.00 | 0.02 | 0.00 |
| 2.02 | 2.00 | 0.00 | 8.99 | 0.02 | 0.00 | 2.04 | 2.00 | 0.00 | 8.98 | 0.02 | 0.00 |
| 2.06 | 2.00 | 0.00 | 8.97 | 0.02 | 0.00 | 2.08 | 2.00 | 0.00 | 8.96 | 0.02 | 0.00 |
| 2.10 | 2.00 | 0.00 | 8.95 | 0.02 | 0.00 | 2.12 | 2.00 | 0.00 | 8.94 | 0.02 | 0.00 |
| 2.14 | 2.00 | 0.00 | 8.93 | 0.02 | 0.00 | 2.16 | 2.00 | 0.00 | 8.92 | 0.02 | 0.00 |
| 2.18 | 2.00 | 0.00 | 8.91 | 0.02 | 0.00 | 2.20 | 2.00 | 0.00 | 8.90 | 0.02 | 0.00 |
| 2.22 | 2.00 | 0.00 | 8.89 | 0.02 | 0.00 | 2.24 | 2.00 | 0.00 | 8.88 | 0.02 | 0.00 |
| 2.26 | 2.00 | 0.00 | 8.87 | 0.02 | 0.00 | 2.28 | 2.00 | 0.00 | 8.86 | 0.02 | 0.00 |
| 2.30 | 2.00 | 0.00 | 8.85 | 0.02 | 0.00 | 2.32 | 2.00 | 0.00 | 8.84 | 0.02 | 0.00 |
| 2.34 | 2.00 | 0.00 | 8.83 | 0.02 | 0.00 | 2.36 | 2.00 | 0.00 | 8.82 | 0.02 | 0.00 |
| 2.38 | 2.00 | 0.00 | 8.81 | 0.02 | 0.00 | 2.40 | 2.00 | 0.00 | 8.80 | 0.02 | 0.00 |
| 2.42 | 2.00 | 0.00 | 8.79 | 0.02 | 0.00 | 2.44 | 2.00 | 0.00 | 8.78 | 0.02 | 0.00 |
| 2.46 | 2.00 | 0.00 | 8.77 | 0.02 | 0.00 | 2.48 | 2.00 | 0.00 | 8.76 | 0.02 | 0.00 |
| 2.50 | 2.00 | 0.00 | 8.75 | 0.02 | 0.00 | 2.52 | 2.00 | 0.00 | 8.74 | 0.02 | 0.00 |
| 2.54 | 2.00 | 0.00 | 8.73 | 0.02 | 0.00 | 2.56 | 2.00 | 0.00 | 8.72 | 0.02 | 0.00 |
| 2.58 | 2.00 | 0.00 | 8.71 | 0.02 | 0.00 | 2.60 | 2.00 | 0.00 | 8.70 | 0.02 | 0.00 |
| 2.62 | 2.00 | 0.00 | 8.69 | 0.02 | 0.00 | 2.64 | 2.00 | 0.00 | 8.68 | 0.02 | 0.00 |
| 2.66 | 2.00 | 0.00 | 8.67 | 0.02 | 0.00 | 2.68 | 2.00 | 0.00 | 8.66 | 0.02 | 0.00 |
| 2.70 | 2.00 | 0.00 | 8.65 | 0.02 | 0.00 | 2.72 | 2.00 | 0.00 | 8.64 | 0.02 | 0.00 |
| 2.74 | 2.00 | 0.00 | 8.63 | 0.02 | 0.00 | 2.76 | 2.00 | 0.00 | 8.62 | 0.02 | 0.00 |
| 2.78 | 2.00 | 0.00 | 8.61 | 0.02 | 0.00 | 2.80 | 2.00 | 0.00 | 8.60 | 0.02 | 0.00 |
| 2.82 | 2.00 | 0.00 | 8.59 | 0.02 | 0.00 | 2.84 | 2.00 | 0.00 | 8.58 | 0.02 | 0.00 |
| 2.86 | 2.00 | 0.00 | 8.57 | 0.02 | 0.00 | 2.88 | 2.00 | 0.00 | 8.56 | 0.02 | 0.00 |
| 2.90 | 2.00 | 0.00 | 8.55 | 0.02 | 0.00 | 2.92 | 2.00 | 0.00 | 8.54 | 0.02 | 0.00 |
| 2.94 | 2.00 | 0.00 | 8.53 | 0.02 | 0.00 | 2.96 | 2.00 | 0.00 | 8.52 | 0.02 | 0.00 |
| 2.98 | 2.00 | 0.00 | 8.51 | 0.02 | 0.00 | 3.00 | 2.00 | 0.00 | 8.50 | 0.02 | 0.00 |
| 3.02 | 2.00 | 0.00 | 8.49 | 0.02 | 0.00 | 3.04 | 2.00 | 0.00 | 8.48 | 0.02 | 0.00 |
| 3.06 | 2.00 | 0.00 | 8.47 | 0.02 | 0.00 | 3.08 | 2.00 | 0.00 | 8.46 | 0.02 | 0.00 |
| 3.10 | 2.00 | 0.00 | 8.45 | 0.02 | 0.00 | 3.12 | 2.00 | 0.00 | 8.44 | 0.02 | 0.00 |
| 3.14 | 2.00 | 0.00 | 8.43 | 0.02 | 0.00 | 3.16 | 2.00 | 0.00 | 8.42 | 0.02 | 0.00 |
| 3.18 | 2.00 | 0.00 | 8.41 | 0.02 | 0.00 | 3.20 | 2.00 | 0.00 | 8.40 | 0.02 | 0.00 |
| 3.22 | 2.00 | 0.00 | 8.39 | 0.02 | 0.00 | 3.24 | 2.00 | 0.00 | 8.38 | 0.02 | 0.00 |
| 3.26 | 2.00 | 0.00 | 8.37 | 0.02 | 0.00 | 3.28 | 2.00 | 0.00 | 8.36 | 0.02 | 0.00 |
| 3.30 | 2.00 | 0.00 | 8.35 | 0.02 | 0.00 | 3.32 | 1.05 | 0.00 | 8.34 | 0.02 | 0.00 |
| 3.34 | 1.01 | 0.00 | 8.33 | 0.02 | 0.00 | 3.36 | 0.98 | 0.02 | 8.32 | 0.02 | 0.00 |
| 3.38 | 0.95 | 0.05 | 8.31 | 0.02 | 0.01 | 3.40 | 2.00 | 0.00 | 8.30 | 0.02 | 0.00 |
| 3.42 | 2.00 | 0.00 | 8.29 | 0.02 | 0.00 | 3.44 | 2.00 | 0.00 | 8.28 | 0.02 | 0.00 |
| 3.46 | 2.00 | 0.00 | 8.27 | 0.02 | 0.00 | 3.48 | 2.00 | 0.00 | 8.26 | 0.02 | 0.00 |
| 3.50 | 2.00 | 0.00 | 8.25 | 0.02 | 0.00 | 3.52 | 2.00 | 0.00 | 8.24 | 0.02 | 0.00 |
| 3.54 | 2.00 | 0.00 | 8.23 | 0.02 | 0.00 | 3.56 | 2.00 | 0.00 | 8.22 | 0.02 | 0.00 |
| 3.58 | 2.00 | 0.00 | 8.21 | 0.02 | 0.00 | 3.60 | 2.00 | 0.00 | 8.20 | 0.02 | 0.00 |
| 3.62 | 2.00 | 0.00 | 8.19 | 0.02 | 0.00 | 3.64 | 2.00 | 0.00 | 8.18 | 0.02 | 0.00 |
| 3.66 | 2.00 | 0.00 | 8.17 | 0.02 | 0.00 | 3.68 | 2.00 | 0.00 | 8.16 | 0.02 | 0.00 |
| 3.70 | 2.00 | 0.00 | 8.15 | 0.02 | 0.00 | 3.72 | 2.00 | 0.00 | 8.14 | 0.02 | 0.00 |
| 3.74 | 2.00 | 0.00 | 8.13 | 0.02 | 0.00 | 3.76 | 2.00 | 0.00 | 8.12 | 0.02 | 0.00 |
| 3.78 | 2.00 | 0.00 | 8.11 | 0.02 | 0.00 | 3.80 | 2.00 | 0.00 | 8.10 | 0.02 | 0.00 |
| 3.82 | 2.00 | 0.00 | 8.09 | 0.02 | 0.00 | 3.84 | 2.00 | 0.00 | 8.08 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 3.86 | 2.00 | 0.00 | 8.07 | 0.02 | 0.00 | 3.88 | 2.00 | 0.00 | 8.06 | 0.02 | 0.00 |
| 3.90 | 2.00 | 0.00 | 8.05 | 0.02 | 0.00 | 3.92 | 2.00 | 0.00 | 8.04 | 0.02 | 0.00 |
| 3.94 | 2.00 | 0.00 | 8.03 | 0.02 | 0.00 | 3.96 | 2.00 | 0.00 | 8.02 | 0.02 | 0.00 |
| 3.98 | 2.00 | 0.00 | 8.01 | 0.02 | 0.00 | 4.00 | 2.00 | 0.00 | 8.00 | 0.02 | 0.00 |
| 4.02 | 2.00 | 0.00 | 7.99 | 0.02 | 0.00 | 4.04 | 2.00 | 0.00 | 7.98 | 0.02 | 0.00 |
| 4.06 | 2.00 | 0.00 | 7.97 | 0.02 | 0.00 | 4.08 | 2.00 | 0.00 | 7.96 | 0.02 | 0.00 |
| 4.10 | 2.00 | 0.00 | 7.95 | 0.02 | 0.00 | 4.12 | 2.00 | 0.00 | 7.94 | 0.02 | 0.00 |
| 4.14 | 2.00 | 0.00 | 7.93 | 0.02 | 0.00 | 4.16 | 2.00 | 0.00 | 7.92 | 0.02 | 0.00 |
| 4.18 | 2.00 | 0.00 | 7.91 | 0.02 | 0.00 | 4.20 | 2.00 | 0.00 | 7.90 | 0.02 | 0.00 |
| 4.22 | 2.00 | 0.00 | 7.89 | 0.02 | 0.00 | 4.24 | 2.00 | 0.00 | 7.88 | 0.02 | 0.00 |
| 4.26 | 2.00 | 0.00 | 7.87 | 0.02 | 0.00 | 4.28 | 2.00 | 0.00 | 7.86 | 0.02 | 0.00 |
| 4.30 | 2.00 | 0.00 | 7.85 | 0.02 | 0.00 | 4.32 | 2.00 | 0.00 | 7.84 | 0.02 | 0.00 |
| 4.34 | 2.00 | 0.00 | 7.83 | 0.02 | 0.00 | 4.36 | 2.00 | 0.00 | 7.82 | 0.02 | 0.00 |
| 4.38 | 2.00 | 0.00 | 7.81 | 0.02 | 0.00 | 4.40 | 2.00 | 0.00 | 7.80 | 0.02 | 0.00 |
| 4.42 | 2.00 | 0.00 | 7.79 | 0.02 | 0.00 | 4.44 | 2.00 | 0.00 | 7.78 | 0.02 | 0.00 |
| 4.46 | 2.00 | 0.00 | 7.77 | 0.02 | 0.00 | 4.48 | 2.00 | 0.00 | 7.76 | 0.02 | 0.00 |
| 4.50 | 2.00 | 0.00 | 7.75 | 0.02 | 0.00 | 4.52 | 2.00 | 0.00 | 7.74 | 0.02 | 0.00 |
| 4.54 | 2.00 | 0.00 | 7.73 | 0.02 | 0.00 | 4.56 | 2.00 | 0.00 | 7.72 | 0.02 | 0.00 |
| 4.58 | 2.00 | 0.00 | 7.71 | 0.02 | 0.00 | 4.60 | 2.00 | 0.00 | 7.70 | 0.02 | 0.00 |
| 4.62 | 2.00 | 0.00 | 7.69 | 0.02 | 0.00 | 4.64 | 2.00 | 0.00 | 7.68 | 0.02 | 0.00 |
| 4.66 | 2.00 | 0.00 | 7.67 | 0.02 | 0.00 | 4.68 | 2.00 | 0.00 | 7.66 | 0.02 | 0.00 |
| 4.70 | 2.00 | 0.00 | 7.65 | 0.02 | 0.00 | 4.72 | 2.00 | 0.00 | 7.64 | 0.02 | 0.00 |
| 4.74 | 2.00 | 0.00 | 7.63 | 0.02 | 0.00 | 4.76 | 2.00 | 0.00 | 7.62 | 0.02 | 0.00 |
| 4.78 | 2.00 | 0.00 | 7.61 | 0.02 | 0.00 | 4.80 | 2.00 | 0.00 | 7.60 | 0.02 | 0.00 |
| 4.82 | 2.00 | 0.00 | 7.59 | 0.02 | 0.00 | 4.84 | 2.00 | 0.00 | 7.58 | 0.02 | 0.00 |
| 4.86 | 2.00 | 0.00 | 7.57 | 0.02 | 0.00 | 4.88 | 2.00 | 0.00 | 7.56 | 0.02 | 0.00 |
| 4.90 | 2.00 | 0.00 | 7.55 | 0.02 | 0.00 | 4.92 | 2.00 | 0.00 | 7.54 | 0.02 | 0.00 |
| 4.94 | 2.00 | 0.00 | 7.53 | 0.02 | 0.00 | 4.96 | 2.00 | 0.00 | 7.52 | 0.02 | 0.00 |
| 4.98 | 2.00 | 0.00 | 7.51 | 0.02 | 0.00 | 5.00 | 2.00 | 0.00 | 7.50 | 0.02 | 0.00 |
| 5.02 | 2.00 | 0.00 | 7.49 | 0.02 | 0.00 | 5.04 | 2.00 | 0.00 | 7.48 | 0.02 | 0.00 |
| 5.06 | 2.00 | 0.00 | 7.47 | 0.02 | 0.00 | 5.08 | 2.00 | 0.00 | 7.46 | 0.02 | 0.00 |
| 5.10 | 2.00 | 0.00 | 7.45 | 0.02 | 0.00 | 5.12 | 2.00 | 0.00 | 7.44 | 0.02 | 0.00 |
| 5.14 | 2.00 | 0.00 | 7.43 | 0.02 | 0.00 | 5.16 | 2.00 | 0.00 | 7.42 | 0.02 | 0.00 |
| 5.18 | 2.00 | 0.00 | 7.41 | 0.02 | 0.00 | 5.20 | 2.00 | 0.00 | 7.40 | 0.02 | 0.00 |
| 5.22 | 2.00 | 0.00 | 7.39 | 0.02 | 0.00 | 5.24 | 2.00 | 0.00 | 7.38 | 0.02 | 0.00 |
| 5.26 | 2.00 | 0.00 | 7.37 | 0.02 | 0.00 | 5.28 | 2.00 | 0.00 | 7.36 | 0.02 | 0.00 |
| 5.30 | 2.00 | 0.00 | 7.35 | 0.02 | 0.00 | 5.32 | 2.00 | 0.00 | 7.34 | 0.02 | 0.00 |
| 5.34 | 2.00 | 0.00 | 7.33 | 0.02 | 0.00 | 5.36 | 2.00 | 0.00 | 7.32 | 0.02 | 0.00 |
| 5.38 | 2.00 | 0.00 | 7.31 | 0.02 | 0.00 | 5.40 | 2.00 | 0.00 | 7.30 | 0.02 | 0.00 |
| 5.42 | 2.00 | 0.00 | 7.29 | 0.02 | 0.00 | 5.44 | 2.00 | 0.00 | 7.28 | 0.02 | 0.00 |
| 5.46 | 2.00 | 0.00 | 7.27 | 0.02 | 0.00 | 5.48 | 2.00 | 0.00 | 7.26 | 0.02 | 0.00 |
| 5.50 | 2.00 | 0.00 | 7.25 | 0.02 | 0.00 | 5.52 | 2.00 | 0.00 | 7.24 | 0.02 | 0.00 |
| 5.54 | 2.00 | 0.00 | 7.23 | 0.02 | 0.00 | 5.56 | 2.00 | 0.00 | 7.22 | 0.02 | 0.00 |
| 5.58 | 2.00 | 0.00 | 7.21 | 0.02 | 0.00 | 5.60 | 2.00 | 0.00 | 7.20 | 0.02 | 0.00 |
| 5.62 | 2.00 | 0.00 | 7.19 | 0.02 | 0.00 | 5.64 | 2.00 | 0.00 | 7.18 | 0.02 | 0.00 |
| 5.66 | 2.00 | 0.00 | 7.17 | 0.02 | 0.00 | 5.68 | 2.00 | 0.00 | 7.16 | 0.02 | 0.00 |
| 5.70 | 2.00 | 0.00 | 7.15 | 0.02 | 0.00 | 5.72 | 2.00 | 0.00 | 7.14 | 0.02 | 0.00 |
| 5.74 | 2.00 | 0.00 | 7.13 | 0.02 | 0.00 | 5.76 | 2.00 | 0.00 | 7.12 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 5.78 | 2.00 | 0.00 | 7.11 | 0.02 | 0.00 | 5.80 | 2.00 | 0.00 | 7.10 | 0.02 | 0.00 |
| 5.82 | 2.00 | 0.00 | 7.09 | 0.02 | 0.00 | 5.84 | 2.00 | 0.00 | 7.08 | 0.02 | 0.00 |
| 5.86 | 2.00 | 0.00 | 7.07 | 0.02 | 0.00 | 5.88 | 2.00 | 0.00 | 7.06 | 0.02 | 0.00 |
| 5.90 | 2.00 | 0.00 | 7.05 | 0.02 | 0.00 | 5.92 | 2.00 | 0.00 | 7.04 | 0.02 | 0.00 |
| 5.94 | 2.00 | 0.00 | 7.03 | 0.02 | 0.00 | 5.96 | 2.00 | 0.00 | 7.02 | 0.02 | 0.00 |
| 5.98 | 2.00 | 0.00 | 7.01 | 0.02 | 0.00 | 6.00 | 2.00 | 0.00 | 7.00 | 0.02 | 0.00 |
| 6.02 | 2.00 | 0.00 | 6.99 | 0.02 | 0.00 | 6.04 | 2.00 | 0.00 | 6.98 | 0.02 | 0.00 |
| 6.06 | 2.00 | 0.00 | 6.97 | 0.02 | 0.00 | 6.08 | 2.00 | 0.00 | 6.96 | 0.02 | 0.00 |
| 6.10 | 2.00 | 0.00 | 6.95 | 0.02 | 0.00 | 6.12 | 2.00 | 0.00 | 6.94 | 0.02 | 0.00 |
| 6.14 | 2.00 | 0.00 | 6.93 | 0.02 | 0.00 | 6.16 | 2.00 | 0.00 | 6.92 | 0.02 | 0.00 |
| 6.18 | 2.00 | 0.00 | 6.91 | 0.02 | 0.00 | 6.20 | 2.00 | 0.00 | 6.90 | 0.02 | 0.00 |
| 6.22 | 2.00 | 0.00 | 6.89 | 0.02 | 0.00 | 6.24 | 2.00 | 0.00 | 6.88 | 0.02 | 0.00 |
| 6.26 | 2.00 | 0.00 | 6.87 | 0.02 | 0.00 | 6.28 | 2.00 | 0.00 | 6.86 | 0.02 | 0.00 |
| 6.30 | 2.00 | 0.00 | 6.85 | 0.02 | 0.00 | 6.32 | 2.00 | 0.00 | 6.84 | 0.02 | 0.00 |
| 6.34 | 2.00 | 0.00 | 6.83 | 0.02 | 0.00 | 6.36 | 2.00 | 0.00 | 6.82 | 0.02 | 0.00 |
| 6.38 | 2.00 | 0.00 | 6.81 | 0.02 | 0.00 | 6.40 | 2.00 | 0.00 | 6.80 | 0.02 | 0.00 |
| 6.42 | 2.00 | 0.00 | 6.79 | 0.02 | 0.00 | 6.44 | 2.00 | 0.00 | 6.78 | 0.02 | 0.00 |
| 6.46 | 2.00 | 0.00 | 6.77 | 0.02 | 0.00 | 6.48 | 2.00 | 0.00 | 6.76 | 0.02 | 0.00 |
| 6.50 | 2.00 | 0.00 | 6.75 | 0.02 | 0.00 | 6.52 | 2.00 | 0.00 | 6.74 | 0.02 | 0.00 |
| 6.54 | 2.00 | 0.00 | 6.73 | 0.02 | 0.00 | 6.56 | 2.00 | 0.00 | 6.72 | 0.02 | 0.00 |
| 6.58 | 2.00 | 0.00 | 6.71 | 0.02 | 0.00 | 6.60 | 2.00 | 0.00 | 6.70 | 0.02 | 0.00 |
| 6.62 | 2.00 | 0.00 | 6.69 | 0.02 | 0.00 | 6.64 | 2.00 | 0.00 | 6.68 | 0.02 | 0.00 |
| 6.66 | 2.00 | 0.00 | 6.67 | 0.02 | 0.00 | 6.68 | 2.00 | 0.00 | 6.66 | 0.02 | 0.00 |
| 6.70 | 2.00 | 0.00 | 6.65 | 0.02 | 0.00 | 6.72 | 2.00 | 0.00 | 6.64 | 0.02 | 0.00 |
| 6.74 | 2.00 | 0.00 | 6.63 | 0.02 | 0.00 | 6.76 | 2.00 | 0.00 | 6.62 | 0.02 | 0.00 |
| 6.78 | 2.00 | 0.00 | 6.61 | 0.02 | 0.00 | 6.80 | 2.00 | 0.00 | 6.60 | 0.02 | 0.00 |
| 6.82 | 2.00 | 0.00 | 6.59 | 0.02 | 0.00 | 6.84 | 2.00 | 0.00 | 6.58 | 0.02 | 0.00 |
| 6.86 | 2.00 | 0.00 | 6.57 | 0.02 | 0.00 | 6.88 | 2.00 | 0.00 | 6.56 | 0.02 | 0.00 |
| 6.90 | 2.00 | 0.00 | 6.55 | 0.02 | 0.00 | 6.92 | 2.00 | 0.00 | 6.54 | 0.02 | 0.00 |
| 6.94 | 2.00 | 0.00 | 6.53 | 0.02 | 0.00 | 6.96 | 2.00 | 0.00 | 6.52 | 0.02 | 0.00 |
| 6.98 | 2.00 | 0.00 | 6.51 | 0.02 | 0.00 | 7.00 | 2.00 | 0.00 | 6.50 | 0.02 | 0.00 |
| 7.02 | 2.00 | 0.00 | 6.49 | 0.02 | 0.00 | 7.04 | 2.00 | 0.00 | 6.48 | 0.02 | 0.00 |
| 7.06 | 2.00 | 0.00 | 6.47 | 0.02 | 0.00 | 7.08 | 2.00 | 0.00 | 6.46 | 0.02 | 0.00 |
| 7.10 | 2.00 | 0.00 | 6.45 | 0.02 | 0.00 | 7.12 | 2.00 | 0.00 | 6.44 | 0.02 | 0.00 |
| 7.14 | 2.00 | 0.00 | 6.43 | 0.02 | 0.00 | 7.16 | 2.00 | 0.00 | 6.42 | 0.02 | 0.00 |
| 7.18 | 2.00 | 0.00 | 6.41 | 0.02 | 0.00 | 7.20 | 2.00 | 0.00 | 6.40 | 0.02 | 0.00 |
| 7.22 | 2.00 | 0.00 | 6.39 | 0.02 | 0.00 | 7.24 | 2.00 | 0.00 | 6.38 | 0.02 | 0.00 |
| 7.26 | 2.00 | 0.00 | 6.37 | 0.02 | 0.00 | 7.28 | 2.00 | 0.00 | 6.36 | 0.02 | 0.00 |
| 7.30 | 2.00 | 0.00 | 6.35 | 0.02 | 0.00 | 7.32 | 2.00 | 0.00 | 6.34 | 0.02 | 0.00 |
| 7.34 | 2.00 | 0.00 | 6.33 | 0.02 | 0.00 | 7.36 | 2.00 | 0.00 | 6.32 | 0.02 | 0.00 |
| 7.38 | 2.00 | 0.00 | 6.31 | 0.02 | 0.00 | 7.40 | 2.00 | 0.00 | 6.30 | 0.02 | 0.00 |
| 7.42 | 2.00 | 0.00 | 6.29 | 0.02 | 0.00 | 7.44 | 2.00 | 0.00 | 6.28 | 0.02 | 0.00 |
| 7.46 | 2.00 | 0.00 | 6.27 | 0.02 | 0.00 | 7.48 | 2.00 | 0.00 | 6.26 | 0.02 | 0.00 |
| 7.50 | 2.00 | 0.00 | 6.25 | 0.02 | 0.00 | 7.52 | 2.00 | 0.00 | 6.24 | 0.02 | 0.00 |
| 7.54 | 2.00 | 0.00 | 6.23 | 0.02 | 0.00 | 7.56 | 2.00 | 0.00 | 6.22 | 0.02 | 0.00 |
| 7.58 | 2.00 | 0.00 | 6.21 | 0.02 | 0.00 | 7.60 | 2.00 | 0.00 | 6.20 | 0.02 | 0.00 |
| 7.62 | 2.00 | 0.00 | 6.19 | 0.02 | 0.00 | 7.64 | 2.00 | 0.00 | 6.18 | 0.02 | 0.00 |
| 7.66 | 2.00 | 0.00 | 6.17 | 0.02 | 0.00 | 7.68 | 2.00 | 0.00 | 6.16 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 7.70 | 2.00 | 0.00 | 6.15 | 0.02 | 0.00 | 7.72 | 2.00 | 0.00 | 6.14 | 0.02 | 0.00 |
| 7.74 | 2.00 | 0.00 | 6.13 | 0.02 | 0.00 | 7.76 | 2.00 | 0.00 | 6.12 | 0.02 | 0.00 |
| 7.78 | 2.00 | 0.00 | 6.11 | 0.02 | 0.00 | 7.80 | 2.00 | 0.00 | 6.10 | 0.02 | 0.00 |
| 7.82 | 2.00 | 0.00 | 6.09 | 0.02 | 0.00 | 7.84 | 2.00 | 0.00 | 6.08 | 0.02 | 0.00 |
| 7.86 | 2.00 | 0.00 | 6.07 | 0.02 | 0.00 | 7.88 | 2.00 | 0.00 | 6.06 | 0.02 | 0.00 |
| 7.90 | 2.00 | 0.00 | 6.05 | 0.02 | 0.00 | 7.92 | 2.00 | 0.00 | 6.04 | 0.02 | 0.00 |
| 7.94 | 2.00 | 0.00 | 6.03 | 0.02 | 0.00 | 7.96 | 2.00 | 0.00 | 6.02 | 0.02 | 0.00 |
| 7.98 | 2.00 | 0.00 | 6.01 | 0.02 | 0.00 | 8.00 | 2.00 | 0.00 | 6.00 | 0.02 | 0.00 |
| 8.02 | 2.00 | 0.00 | 5.99 | 0.02 | 0.00 | 8.04 | 2.00 | 0.00 | 5.98 | 0.02 | 0.00 |
| 8.06 | 2.00 | 0.00 | 5.97 | 0.02 | 0.00 | 8.08 | 2.00 | 0.00 | 5.96 | 0.02 | 0.00 |
| 8.10 | 2.00 | 0.00 | 5.95 | 0.02 | 0.00 | 8.12 | 2.00 | 0.00 | 5.94 | 0.02 | 0.00 |
| 8.14 | 2.00 | 0.00 | 5.93 | 0.02 | 0.00 | 8.16 | 2.00 | 0.00 | 5.92 | 0.02 | 0.00 |
| 8.18 | 2.00 | 0.00 | 5.91 | 0.02 | 0.00 | 8.20 | 2.00 | 0.00 | 5.90 | 0.02 | 0.00 |
| 8.22 | 2.00 | 0.00 | 5.89 | 0.02 | 0.00 | 8.24 | 2.00 | 0.00 | 5.88 | 0.02 | 0.00 |
| 8.26 | 2.00 | 0.00 | 5.87 | 0.02 | 0.00 | 8.28 | 2.00 | 0.00 | 5.86 | 0.02 | 0.00 |
| 8.30 | 2.00 | 0.00 | 5.85 | 0.02 | 0.00 | 8.32 | 2.00 | 0.00 | 5.84 | 0.02 | 0.00 |
| 8.34 | 2.00 | 0.00 | 5.83 | 0.02 | 0.00 | 8.36 | 2.00 | 0.00 | 5.82 | 0.02 | 0.00 |
| 8.38 | 2.00 | 0.00 | 5.81 | 0.02 | 0.00 | 8.40 | 2.00 | 0.00 | 5.80 | 0.02 | 0.00 |
| 8.42 | 2.00 | 0.00 | 5.79 | 0.02 | 0.00 | 8.44 | 2.00 | 0.00 | 5.78 | 0.02 | 0.00 |
| 8.46 | 2.00 | 0.00 | 5.77 | 0.02 | 0.00 | 8.48 | 2.00 | 0.00 | 5.76 | 0.02 | 0.00 |
| 8.50 | 2.00 | 0.00 | 5.75 | 0.02 | 0.00 | 8.52 | 2.00 | 0.00 | 5.74 | 0.02 | 0.00 |
| 8.54 | 2.00 | 0.00 | 5.73 | 0.02 | 0.00 | 8.56 | 2.00 | 0.00 | 5.72 | 0.02 | 0.00 |
| 8.58 | 2.00 | 0.00 | 5.71 | 0.02 | 0.00 | 8.60 | 2.00 | 0.00 | 5.70 | 0.02 | 0.00 |
| 8.62 | 2.00 | 0.00 | 5.69 | 0.02 | 0.00 | 8.64 | 2.00 | 0.00 | 5.68 | 0.02 | 0.00 |
| 8.66 | 2.00 | 0.00 | 5.67 | 0.02 | 0.00 | 8.68 | 2.00 | 0.00 | 5.66 | 0.02 | 0.00 |
| 8.70 | 2.00 | 0.00 | 5.65 | 0.02 | 0.00 | 8.72 | 2.00 | 0.00 | 5.64 | 0.02 | 0.00 |
| 8.74 | 2.00 | 0.00 | 5.63 | 0.02 | 0.00 | 8.76 | 2.00 | 0.00 | 5.62 | 0.02 | 0.00 |
| 8.78 | 2.00 | 0.00 | 5.61 | 0.02 | 0.00 | 8.80 | 2.00 | 0.00 | 5.60 | 0.02 | 0.00 |
| 8.82 | 2.00 | 0.00 | 5.59 | 0.02 | 0.00 | 8.84 | 2.00 | 0.00 | 5.58 | 0.02 | 0.00 |
| 8.86 | 2.00 | 0.00 | 5.57 | 0.02 | 0.00 | 8.88 | 2.00 | 0.00 | 5.56 | 0.02 | 0.00 |
| 8.90 | 2.00 | 0.00 | 5.55 | 0.02 | 0.00 | 8.92 | 2.00 | 0.00 | 5.54 | 0.02 | 0.00 |
| 8.94 | 2.00 | 0.00 | 5.53 | 0.02 | 0.00 | 8.96 | 2.00 | 0.00 | 5.52 | 0.02 | 0.00 |
| 8.98 | 2.00 | 0.00 | 5.51 | 0.02 | 0.00 | 9.00 | 2.00 | 0.00 | 5.50 | 0.02 | 0.00 |
| 9.02 | 2.00 | 0.00 | 5.49 | 0.02 | 0.00 | 9.04 | 2.00 | 0.00 | 5.48 | 0.02 | 0.00 |
| 9.06 | 2.00 | 0.00 | 5.47 | 0.02 | 0.00 | 9.08 | 2.00 | 0.00 | 5.46 | 0.02 | 0.00 |
| 9.10 | 2.00 | 0.00 | 5.45 | 0.02 | 0.00 | 9.12 | 2.00 | 0.00 | 5.44 | 0.02 | 0.00 |
| 9.14 | 2.00 | 0.00 | 5.43 | 0.02 | 0.00 | 9.16 | 2.00 | 0.00 | 5.42 | 0.02 | 0.00 |
| 9.18 | 2.00 | 0.00 | 5.41 | 0.02 | 0.00 | 9.20 | 2.00 | 0.00 | 5.40 | 0.02 | 0.00 |
| 9.22 | 2.00 | 0.00 | 5.39 | 0.02 | 0.00 | 9.24 | 2.00 | 0.00 | 5.38 | 0.02 | 0.00 |
| 9.26 | 2.00 | 0.00 | 5.37 | 0.02 | 0.00 | 9.28 | 2.00 | 0.00 | 5.36 | 0.02 | 0.00 |
| 9.30 | 2.00 | 0.00 | 5.35 | 0.02 | 0.00 | 9.32 | 2.00 | 0.00 | 5.34 | 0.02 | 0.00 |
| 9.34 | 2.00 | 0.00 | 5.33 | 0.02 | 0.00 | 9.36 | 2.00 | 0.00 | 5.32 | 0.02 | 0.00 |
| 9.38 | 2.00 | 0.00 | 5.31 | 0.02 | 0.00 | 9.40 | 2.00 | 0.00 | 5.30 | 0.02 | 0.00 |
| 9.42 | 2.00 | 0.00 | 5.29 | 0.02 | 0.00 | 9.44 | 2.00 | 0.00 | 5.28 | 0.02 | 0.00 |
| 9.46 | 2.00 | 0.00 | 5.27 | 0.02 | 0.00 | 9.48 | 2.00 | 0.00 | 5.26 | 0.02 | 0.00 |
| 9.50 | 2.00 | 0.00 | 5.25 | 0.02 | 0.00 | 9.52 | 2.00 | 0.00 | 5.24 | 0.02 | 0.00 |
| 9.54 | 2.00 | 0.00 | 5.23 | 0.02 | 0.00 | 9.56 | 2.00 | 0.00 | 5.22 | 0.02 | 0.00 |
| 9.58 | 2.00 | 0.00 | 5.21 | 0.02 | 0.00 | 9.60 | 2.00 | 0.00 | 5.20 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 9.62 | 2.00 | 0.00 | 5.19 | 0.02 | 0.00 | 9.64 | 2.00 | 0.00 | 5.18 | 0.02 | 0.00 |
| 9.66 | 2.00 | 0.00 | 5.17 | 0.02 | 0.00 | 9.68 | 2.00 | 0.00 | 5.16 | 0.02 | 0.00 |
| 9.70 | 2.00 | 0.00 | 5.15 | 0.02 | 0.00 | 9.72 | 2.00 | 0.00 | 5.14 | 0.02 | 0.00 |
| 9.74 | 2.00 | 0.00 | 5.13 | 0.02 | 0.00 | 9.76 | 2.00 | 0.00 | 5.12 | 0.02 | 0.00 |
| 9.78 | 2.00 | 0.00 | 5.11 | 0.02 | 0.00 | 9.80 | 2.00 | 0.00 | 5.10 | 0.02 | 0.00 |
| 9.82 | 2.00 | 0.00 | 5.09 | 0.02 | 0.00 | 9.84 | 2.00 | 0.00 | 5.08 | 0.02 | 0.00 |
| 9.86 | 2.00 | 0.00 | 5.07 | 0.02 | 0.00 | 9.88 | 2.00 | 0.00 | 5.06 | 0.02 | 0.00 |
| 9.90 | 2.00 | 0.00 | 5.05 | 0.02 | 0.00 | 9.92 | 2.00 | 0.00 | 5.04 | 0.02 | 0.00 |
| 9.94 | 2.00 | 0.00 | 5.03 | 0.02 | 0.00 | 9.96 | 2.00 | 0.00 | 5.02 | 0.02 | 0.00 |
| 9.98 | 2.00 | 0.00 | 5.01 | 0.02 | 0.00 | 10.00 | 2.00 | 0.00 | 5.00 | 0.02 | 0.00 |
| 10.02 | 2.00 | 0.00 | 4.99 | 0.02 | 0.00 | 10.04 | 2.00 | 0.00 | 4.98 | 0.02 | 0.00 |
| 10.06 | 2.00 | 0.00 | 4.97 | 0.02 | 0.00 | 10.08 | 2.00 | 0.00 | 4.96 | 0.02 | 0.00 |
| 10.10 | 2.00 | 0.00 | 4.95 | 0.02 | 0.00 | 10.12 | 2.00 | 0.00 | 4.94 | 0.02 | 0.00 |
| 10.14 | 2.00 | 0.00 | 4.93 | 0.02 | 0.00 | 10.16 | 2.00 | 0.00 | 4.92 | 0.02 | 0.00 |
| 10.18 | 2.00 | 0.00 | 4.91 | 0.02 | 0.00 | 10.20 | 2.00 | 0.00 | 4.90 | 0.02 | 0.00 |
| 10.22 | 2.00 | 0.00 | 4.89 | 0.02 | 0.00 | 10.24 | 2.00 | 0.00 | 4.88 | 0.02 | 0.00 |
| 10.26 | 2.00 | 0.00 | 4.87 | 0.02 | 0.00 | 10.28 | 2.00 | 0.00 | 4.86 | 0.02 | 0.00 |
| 10.30 | 2.00 | 0.00 | 4.85 | 0.02 | 0.00 | 10.32 | 2.00 | 0.00 | 4.84 | 0.02 | 0.00 |
| 10.34 | 2.00 | 0.00 | 4.83 | 0.02 | 0.00 | 10.36 | 2.00 | 0.00 | 4.82 | 0.02 | 0.00 |
| 10.38 | 2.00 | 0.00 | 4.81 | 0.02 | 0.00 | 10.40 | 0.87 | 0.13 | 4.80 | 0.02 | 0.01 |
| 10.42 | 2.00 | 0.00 | 4.79 | 0.02 | 0.00 | 10.44 | 2.00 | 0.00 | 4.78 | 0.02 | 0.00 |
| 10.46 | 2.00 | 0.00 | 4.77 | 0.02 | 0.00 | 10.48 | 2.00 | 0.00 | 4.76 | 0.02 | 0.00 |
| 10.50 | 2.00 | 0.00 | 4.75 | 0.02 | 0.00 | 10.52 | 2.00 | 0.00 | 4.74 | 0.02 | 0.00 |
| 10.54 | 2.00 | 0.00 | 4.73 | 0.02 | 0.00 | 10.56 | 2.00 | 0.00 | 4.72 | 0.02 | 0.00 |
| 10.58 | 2.00 | 0.00 | 4.71 | 0.02 | 0.00 | 10.60 | 2.00 | 0.00 | 4.70 | 0.02 | 0.00 |
| 10.62 | 2.00 | 0.00 | 4.69 | 0.02 | 0.00 | 10.64 | 2.00 | 0.00 | 4.68 | 0.02 | 0.00 |
| 10.66 | 0.84 | 0.16 | 4.67 | 0.02 | 0.02 | 10.68 | 0.83 | 0.17 | 4.66 | 0.02 | 0.02 |
| 10.70 | 0.86 | 0.14 | 4.65 | 0.02 | 0.01 | 10.72 | 0.93 | 0.07 | 4.64 | 0.02 | 0.01 |
| 10.74 | 0.98 | 0.02 | 4.63 | 0.02 | 0.00 | 10.76 | 2.00 | 0.00 | 4.62 | 0.02 | 0.00 |
| 10.78 | 2.00 | 0.00 | 4.61 | 0.02 | 0.00 | 10.80 | 2.00 | 0.00 | 4.60 | 0.02 | 0.00 |
| 10.82 | 2.00 | 0.00 | 4.59 | 0.02 | 0.00 | 10.84 | 2.00 | 0.00 | 4.58 | 0.02 | 0.00 |
| 10.86 | 2.00 | 0.00 | 4.57 | 0.02 | 0.00 | 10.88 | 2.00 | 0.00 | 4.56 | 0.02 | 0.00 |
| 10.90 | 2.00 | 0.00 | 4.55 | 0.02 | 0.00 | 10.92 | 2.00 | 0.00 | 4.54 | 0.02 | 0.00 |
| 10.94 | 2.00 | 0.00 | 4.53 | 0.02 | 0.00 | 10.96 | 2.00 | 0.00 | 4.52 | 0.02 | 0.00 |
| 10.98 | 2.00 | 0.00 | 4.51 | 0.02 | 0.00 | 11.00 | 0.95 | 0.05 | 4.50 | 0.02 | 0.00 |
| 11.02 | 1.00 | 0.00 | 4.49 | 0.02 | 0.00 | 11.04 | 1.04 | 0.00 | 4.48 | 0.02 | 0.00 |
| 11.06 | 1.11 | 0.00 | 4.47 | 0.02 | 0.00 | 11.08 | 1.20 | 0.00 | 4.46 | 0.02 | 0.00 |
| 11.10 | 2.00 | 0.00 | 4.45 | 0.02 | 0.00 | 11.12 | 1.29 | 0.00 | 4.44 | 0.02 | 0.00 |
| 11.14 | 1.34 | 0.00 | 4.43 | 0.02 | 0.00 | 11.16 | 1.43 | 0.00 | 4.42 | 0.02 | 0.00 |
| 11.18 | 2.00 | 0.00 | 4.41 | 0.02 | 0.00 | 11.20 | 2.00 | 0.00 | 4.40 | 0.02 | 0.00 |
| 11.22 | 2.00 | 0.00 | 4.39 | 0.02 | 0.00 | 11.24 | 2.00 | 0.00 | 4.38 | 0.02 | 0.00 |
| 11.26 | 2.00 | 0.00 | 4.37 | 0.02 | 0.00 | 11.28 | 2.00 | 0.00 | 4.36 | 0.02 | 0.00 |
| 11.30 | 1.19 | 0.00 | 4.35 | 0.02 | 0.00 | 11.32 | 1.10 | 0.00 | 4.34 | 0.02 | 0.00 |
| 11.34 | 1.04 | 0.00 | 4.33 | 0.02 | 0.00 | 11.36 | 0.97 | 0.03 | 4.32 | 0.02 | 0.00 |
| 11.38 | 0.94 | 0.06 | 4.31 | 0.02 | 0.01 | 11.40 | 0.95 | 0.05 | 4.30 | 0.02 | 0.00 |
| 11.42 | 1.02 | 0.00 | 4.29 | 0.02 | 0.00 | 11.44 | 1.10 | 0.00 | 4.28 | 0.02 | 0.00 |
| 11.46 | 1.00 | 0.00 | 4.27 | 0.02 | 0.00 | 11.48 | 1.18 | 0.00 | 4.26 | 0.02 | 0.00 |
| 11.50 | 1.21 | 0.00 | 4.25 | 0.02 | 0.00 | 11.52 | 1.23 | 0.00 | 4.24 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 11.54 | 1.24 | 0.00 | 4.23 | 0.02 | 0.00 | 11.56 | 1.22 | 0.00 | 4.22 | 0.02 | 0.00 |
| 11.58 | 1.20 | 0.00 | 4.21 | 0.02 | 0.00 | 11.60 | 1.16 | 0.00 | 4.20 | 0.02 | 0.00 |
| 11.62 | 1.11 | 0.00 | 4.19 | 0.02 | 0.00 | 11.64 | 1.08 | 0.00 | 4.18 | 0.02 | 0.00 |
| 11.66 | 1.09 | 0.00 | 4.17 | 0.02 | 0.00 | 11.68 | 1.14 | 0.00 | 4.16 | 0.02 | 0.00 |
| 11.70 | 1.20 | 0.00 | 4.15 | 0.02 | 0.00 | 11.72 | 1.21 | 0.00 | 4.14 | 0.02 | 0.00 |
| 11.74 | 2.00 | 0.00 | 4.13 | 0.02 | 0.00 | 11.76 | 2.00 | 0.00 | 4.12 | 0.02 | 0.00 |
| 11.78 | 2.00 | 0.00 | 4.11 | 0.02 | 0.00 | 11.80 | 2.00 | 0.00 | 4.10 | 0.02 | 0.00 |
| 11.82 | 2.00 | 0.00 | 4.09 | 0.02 | 0.00 | 11.84 | 2.00 | 0.00 | 4.08 | 0.02 | 0.00 |
| 11.86 | 2.00 | 0.00 | 4.07 | 0.02 | 0.00 | 11.88 | 2.00 | 0.00 | 4.06 | 0.02 | 0.00 |
| 11.90 | 2.00 | 0.00 | 4.05 | 0.02 | 0.00 | 11.92 | 2.00 | 0.00 | 4.04 | 0.02 | 0.00 |
| 11.94 | 2.00 | 0.00 | 4.03 | 0.02 | 0.00 | 11.96 | 2.00 | 0.00 | 4.02 | 0.02 | 0.00 |
| 11.98 | 2.00 | 0.00 | 4.01 | 0.02 | 0.00 | 12.00 | 2.00 | 0.00 | 4.00 | 0.02 | 0.00 |
| 12.02 | 2.00 | 0.00 | 3.99 | 0.02 | 0.00 | 12.04 | 2.00 | 0.00 | 3.98 | 0.02 | 0.00 |
| 12.06 | 2.00 | 0.00 | 3.97 | 0.02 | 0.00 | 12.08 | 2.00 | 0.00 | 3.96 | 0.02 | 0.00 |
| 12.10 | 2.00 | 0.00 | 3.95 | 0.02 | 0.00 | 12.12 | 0.95 | 0.05 | 3.94 | 0.02 | 0.00 |
| 12.14 | 1.31 | 0.00 | 3.93 | 0.02 | 0.00 | 12.16 | 2.00 | 0.00 | 3.92 | 0.02 | 0.00 |
| 12.18 | 2.00 | 0.00 | 3.91 | 0.02 | 0.00 | 12.20 | 2.00 | 0.00 | 3.90 | 0.02 | 0.00 |
| 12.22 | 2.00 | 0.00 | 3.89 | 0.02 | 0.00 | 12.24 | 2.00 | 0.00 | 3.88 | 0.02 | 0.00 |
| 12.26 | 2.00 | 0.00 | 3.87 | 0.02 | 0.00 | 12.28 | 2.00 | 0.00 | 3.86 | 0.02 | 0.00 |
| 12.30 | 2.00 | 0.00 | 3.85 | 0.02 | 0.00 | 12.32 | 1.82 | 0.00 | 3.84 | 0.02 | 0.00 |
| 12.34 | 1.73 | 0.00 | 3.83 | 0.02 | 0.00 | 12.36 | 1.73 | 0.00 | 3.82 | 0.02 | 0.00 |
| 12.38 | 1.73 | 0.00 | 3.81 | 0.02 | 0.00 | 12.40 | 1.72 | 0.00 | 3.80 | 0.02 | 0.00 |
| 12.42 | 1.68 | 0.00 | 3.79 | 0.02 | 0.00 | 12.44 | 2.00 | 0.00 | 3.78 | 0.02 | 0.00 |
| 12.46 | 2.00 | 0.00 | 3.77 | 0.02 | 0.00 | 12.48 | 2.00 | 0.00 | 3.76 | 0.02 | 0.00 |
| 12.50 | 2.00 | 0.00 | 3.75 | 0.02 | 0.00 | 12.52 | 2.00 | 0.00 | 3.74 | 0.02 | 0.00 |
| 12.54 | 2.00 | 0.00 | 3.73 | 0.02 | 0.00 | 12.56 | 2.00 | 0.00 | 3.72 | 0.02 | 0.00 |
| 12.58 | 2.00 | 0.00 | 3.71 | 0.02 | 0.00 | 12.60 | 2.00 | 0.00 | 3.70 | 0.02 | 0.00 |
| 12.62 | 2.00 | 0.00 | 3.69 | 0.02 | 0.00 | 12.64 | 2.00 | 0.00 | 3.68 | 0.02 | 0.00 |
| 12.66 | 2.00 | 0.00 | 3.67 | 0.02 | 0.00 | 12.68 | 2.00 | 0.00 | 3.66 | 0.02 | 0.00 |
| 12.70 | 2.00 | 0.00 | 3.65 | 0.02 | 0.00 | 12.72 | 2.00 | 0.00 | 3.64 | 0.02 | 0.00 |
| 12.74 | 2.00 | 0.00 | 3.63 | 0.02 | 0.00 | 12.76 | 2.00 | 0.00 | 3.62 | 0.02 | 0.00 |
| 12.78 | 0.99 | 0.01 | 3.61 | 0.02 | 0.00 | 12.80 | 1.01 | 0.00 | 3.60 | 0.02 | 0.00 |
| 12.82 | 2.00 | 0.00 | 3.59 | 0.02 | 0.00 | 12.84 | 2.00 | 0.00 | 3.58 | 0.02 | 0.00 |
| 12.86 | 2.00 | 0.00 | 3.57 | 0.02 | 0.00 | 12.88 | 2.00 | 0.00 | 3.56 | 0.02 | 0.00 |
| 12.90 | 2.00 | 0.00 | 3.55 | 0.02 | 0.00 | 12.92 | 2.00 | 0.00 | 3.54 | 0.02 | 0.00 |
| 12.94 | 2.00 | 0.00 | 3.53 | 0.02 | 0.00 | 12.96 | 2.00 | 0.00 | 3.52 | 0.02 | 0.00 |
| 12.98 | 0.93 | 0.07 | 3.51 | 0.02 | 0.00 | 13.00 | 0.95 | 0.05 | 3.50 | 0.02 | 0.00 |
| 13.02 | 2.00 | 0.00 | 3.49 | 0.02 | 0.00 | 13.04 | 2.00 | 0.00 | 3.48 | 0.02 | 0.00 |
| 13.06 | 2.00 | 0.00 | 3.47 | 0.02 | 0.00 | 13.08 | 2.00 | 0.00 | 3.46 | 0.02 | 0.00 |
| 13.10 | 2.00 | 0.00 | 3.45 | 0.02 | 0.00 | 13.12 | 2.00 | 0.00 | 3.44 | 0.02 | 0.00 |
| 13.14 | 2.00 | 0.00 | 3.43 | 0.02 | 0.00 | 13.16 | 2.00 | 0.00 | 3.42 | 0.02 | 0.00 |
| 13.18 | 2.00 | 0.00 | 3.41 | 0.02 | 0.00 | 13.20 | 2.00 | 0.00 | 3.40 | 0.02 | 0.00 |
| 13.22 | 2.00 | 0.00 | 3.39 | 0.02 | 0.00 | 13.24 | 2.00 | 0.00 | 3.38 | 0.02 | 0.00 |
| 13.26 | 2.00 | 0.00 | 3.37 | 0.02 | 0.00 | 13.28 | 2.00 | 0.00 | 3.36 | 0.02 | 0.00 |
| 13.30 | 2.00 | 0.00 | 3.35 | 0.02 | 0.00 | 13.32 | 2.00 | 0.00 | 3.34 | 0.02 | 0.00 |
| 13.34 | 2.00 | 0.00 | 3.33 | 0.02 | 0.00 | 13.36 | 2.00 | 0.00 | 3.32 | 0.02 | 0.00 |
| 13.38 | 2.00 | 0.00 | 3.31 | 0.02 | 0.00 | 13.40 | 2.00 | 0.00 | 3.30 | 0.02 | 0.00 |
| 13.42 | 2.00 | 0.00 | 3.29 | 0.02 | 0.00 | 13.44 | 2.00 | 0.00 | 3.28 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 13.46 | 2.00 | 0.00 | 3.27 | 0.02 | 0.00 | 13.48 | 2.00 | 0.00 | 3.26 | 0.02 | 0.00 |
| 13.50 | 2.00 | 0.00 | 3.25 | 0.02 | 0.00 | 13.52 | 2.00 | 0.00 | 3.24 | 0.02 | 0.00 |
| 13.54 | 2.00 | 0.00 | 3.23 | 0.02 | 0.00 | 13.56 | 2.00 | 0.00 | 3.22 | 0.02 | 0.00 |
| 13.58 | 2.00 | 0.00 | 3.21 | 0.02 | 0.00 | 13.60 | 2.00 | 0.00 | 3.20 | 0.02 | 0.00 |
| 13.62 | 2.00 | 0.00 | 3.19 | 0.02 | 0.00 | 13.64 | 2.00 | 0.00 | 3.18 | 0.02 | 0.00 |
| 13.66 | 2.00 | 0.00 | 3.17 | 0.02 | 0.00 | 13.68 | 2.00 | 0.00 | 3.16 | 0.02 | 0.00 |
| 13.70 | 2.00 | 0.00 | 3.15 | 0.02 | 0.00 | 13.72 | 2.00 | 0.00 | 3.14 | 0.02 | 0.00 |
| 13.74 | 2.00 | 0.00 | 3.13 | 0.02 | 0.00 | 13.76 | 2.00 | 0.00 | 3.12 | 0.02 | 0.00 |
| 13.78 | 2.00 | 0.00 | 3.11 | 0.02 | 0.00 | 13.80 | 2.00 | 0.00 | 3.10 | 0.02 | 0.00 |
| 13.82 | 0.87 | 0.13 | 3.09 | 0.02 | 0.01 | 13.84 | 1.03 | 0.00 | 3.08 | 0.02 | 0.00 |
| 13.86 | 1.43 | 0.00 | 3.07 | 0.02 | 0.00 | 13.88 | 1.75 | 0.00 | 3.06 | 0.02 | 0.00 |
| 13.90 | 1.80 | 0.00 | 3.05 | 0.02 | 0.00 | 13.92 | 1.75 | 0.00 | 3.04 | 0.02 | 0.00 |
| 13.94 | 1.62 | 0.00 | 3.03 | 0.02 | 0.00 | 13.96 | 1.58 | 0.00 | 3.02 | 0.02 | 0.00 |
| 13.98 | 1.57 | 0.00 | 3.01 | 0.02 | 0.00 | 14.00 | 1.52 | 0.00 | 3.00 | 0.02 | 0.00 |
| 14.02 | 1.47 | 0.00 | 2.99 | 0.02 | 0.00 | 14.04 | 1.47 | 0.00 | 2.98 | 0.02 | 0.00 |
| 14.06 | 1.48 | 0.00 | 2.97 | 0.02 | 0.00 | 14.08 | 1.57 | 0.00 | 2.96 | 0.02 | 0.00 |
| 14.10 | 1.76 | 0.00 | 2.95 | 0.02 | 0.00 | 14.12 | 1.96 | 0.00 | 2.94 | 0.02 | 0.00 |
| 14.14 | 2.00 | 0.00 | 2.93 | 0.02 | 0.00 | 14.16 | 2.00 | 0.00 | 2.92 | 0.02 | 0.00 |
| 14.18 | 2.00 | 0.00 | 2.91 | 0.02 | 0.00 | 14.20 | 1.83 | 0.00 | 2.90 | 0.02 | 0.00 |
| 14.22 | 1.62 | 0.00 | 2.89 | 0.02 | 0.00 | 14.24 | 1.52 | 0.00 | 2.88 | 0.02 | 0.00 |
| 14.26 | 1.44 | 0.00 | 2.87 | 0.02 | 0.00 | 14.28 | 1.78 | 0.00 | 2.86 | 0.02 | 0.00 |
| 14.30 | 2.00 | 0.00 | 2.85 | 0.02 | 0.00 | 14.32 | 2.00 | 0.00 | 2.84 | 0.02 | 0.00 |
| 14.34 | 2.00 | 0.00 | 2.83 | 0.02 | 0.00 | 14.36 | 2.00 | 0.00 | 2.82 | 0.02 | 0.00 |
| 14.38 | 2.00 | 0.00 | 2.81 | 0.02 | 0.00 | 14.40 | 2.00 | 0.00 | 2.80 | 0.02 | 0.00 |
| 14.42 | 2.00 | 0.00 | 2.79 | 0.02 | 0.00 | 14.44 | 2.00 | 0.00 | 2.78 | 0.02 | 0.00 |
| 14.46 | 2.00 | 0.00 | 2.77 | 0.02 | 0.00 | 14.48 | 2.00 | 0.00 | 2.76 | 0.02 | 0.00 |
| 14.50 | 2.00 | 0.00 | 2.75 | 0.02 | 0.00 | 14.52 | 2.00 | 0.00 | 2.74 | 0.02 | 0.00 |
| 14.54 | 1.04 | 0.00 | 2.73 | 0.02 | 0.00 | 14.56 | 1.13 | 0.00 | 2.72 | 0.02 | 0.00 |
| 14.58 | 1.24 | 0.00 | 2.71 | 0.02 | 0.00 | 14.60 | 1.24 | 0.00 | 2.70 | 0.02 | 0.00 |
| 14.62 | 1.13 | 0.00 | 2.69 | 0.02 | 0.00 | 14.64 | 1.00 | 0.00 | 2.68 | 0.02 | 0.00 |
| 14.66 | 0.95 | 0.05 | 2.67 | 0.02 | 0.00 | 14.68 | 1.04 | 0.00 | 2.66 | 0.02 | 0.00 |
| 14.70 | 1.17 | 0.00 | 2.65 | 0.02 | 0.00 | 14.72 | 1.48 | 0.00 | 2.64 | 0.02 | 0.00 |
| 14.74 | 1.53 | 0.00 | 2.63 | 0.02 | 0.00 | 14.76 | 1.63 | 0.00 | 2.62 | 0.02 | 0.00 |
| 14.78 | 1.54 | 0.00 | 2.61 | 0.02 | 0.00 | 14.80 | 1.46 | 0.00 | 2.60 | 0.02 | 0.00 |
| 14.82 | 1.39 | 0.00 | 2.59 | 0.02 | 0.00 | 14.84 | 1.35 | 0.00 | 2.58 | 0.02 | 0.00 |
| 14.86 | 1.35 | 0.00 | 2.57 | 0.02 | 0.00 | 14.88 | 1.36 | 0.00 | 2.56 | 0.02 | 0.00 |
| 14.90 | 1.38 | 0.00 | 2.55 | 0.02 | 0.00 | 14.92 | 1.21 | 0.00 | 2.54 | 0.02 | 0.00 |
| 14.94 | 1.20 | 0.00 | 2.53 | 0.02 | 0.00 | 14.96 | 1.19 | 0.00 | 2.52 | 0.02 | 0.00 |
| 14.98 | 1.38 | 0.00 | 2.51 | 0.02 | 0.00 | 15.00 | 1.39 | 0.00 | 2.50 | 0.02 | 0.00 |
| 15.02 | 1.36 | 0.00 | 2.49 | 0.02 | 0.00 | 15.04 | 1.33 | 0.00 | 2.48 | 0.02 | 0.00 |
| 15.06 | 1.35 | 0.00 | 2.47 | 0.02 | 0.00 | 15.08 | 1.42 | 0.00 | 2.46 | 0.02 | 0.00 |
| 15.10 | 1.37 | 0.00 | 2.45 | 0.02 | 0.00 | 15.12 | 1.49 | 0.00 | 2.44 | 0.02 | 0.00 |
| 15.14 | 1.56 | 0.00 | 2.43 | 0.02 | 0.00 | 15.16 | 1.58 | 0.00 | 2.42 | 0.02 | 0.00 |
| 15.18 | 1.76 | 0.00 | 2.41 | 0.02 | 0.00 | 15.20 | 1.76 | 0.00 | 2.40 | 0.02 | 0.00 |
| 15.22 | 1.74 | 0.00 | 2.39 | 0.02 | 0.00 | 15.24 | 1.71 | 0.00 | 2.38 | 0.02 | 0.00 |
| 15.26 | 1.68 | 0.00 | 2.37 | 0.02 | 0.00 | 15.28 | 1.64 | 0.00 | 2.36 | 0.02 | 0.00 |
| 15.30 | 1.60 | 0.00 | 2.35 | 0.02 | 0.00 | 15.32 | 1.55 | 0.00 | 2.34 | 0.02 | 0.00 |
| 15.34 | 1.49 | 0.00 | 2.33 | 0.02 | 0.00 | 15.36 | 1.43 | 0.00 | 2.32 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 15.38 | 1.38 | 0.00 | 2.31 | 0.02 | 0.00 | 15.40 | 1.33 | 0.00 | 2.30 | 0.02 | 0.00 |
| 15.42 | 1.30 | 0.00 | 2.29 | 0.02 | 0.00 | 15.44 | 1.29 | 0.00 | 2.28 | 0.02 | 0.00 |
| 15.46 | 1.28 | 0.00 | 2.27 | 0.02 | 0.00 | 15.48 | 1.26 | 0.00 | 2.26 | 0.02 | 0.00 |
| 15.50 | 1.24 | 0.00 | 2.25 | 0.02 | 0.00 | 15.52 | 1.23 | 0.00 | 2.24 | 0.02 | 0.00 |
| 15.54 | 1.22 | 0.00 | 2.23 | 0.02 | 0.00 | 15.56 | 1.22 | 0.00 | 2.22 | 0.02 | 0.00 |
| 15.58 | 1.22 | 0.00 | 2.21 | 0.02 | 0.00 | 15.60 | 1.22 | 0.00 | 2.20 | 0.02 | 0.00 |
| 15.62 | 1.22 | 0.00 | 2.19 | 0.02 | 0.00 | 15.64 | 1.22 | 0.00 | 2.18 | 0.02 | 0.00 |
| 15.66 | 1.22 | 0.00 | 2.17 | 0.02 | 0.00 | 15.68 | 1.24 | 0.00 | 2.16 | 0.02 | 0.00 |
| 15.70 | 1.26 | 0.00 | 2.15 | 0.02 | 0.00 | 15.72 | 1.29 | 0.00 | 2.14 | 0.02 | 0.00 |
| 15.74 | 1.31 | 0.00 | 2.13 | 0.02 | 0.00 | 15.76 | 1.33 | 0.00 | 2.12 | 0.02 | 0.00 |
| 15.78 | 1.31 | 0.00 | 2.11 | 0.02 | 0.00 | 15.80 | 1.28 | 0.00 | 2.10 | 0.02 | 0.00 |
| 15.82 | 1.24 | 0.00 | 2.09 | 0.02 | 0.00 | 15.84 | 1.22 | 0.00 | 2.08 | 0.02 | 0.00 |
| 15.86 | 1.22 | 0.00 | 2.07 | 0.02 | 0.00 | 15.88 | 1.26 | 0.00 | 2.06 | 0.02 | 0.00 |
| 15.90 | 1.30 | 0.00 | 2.05 | 0.02 | 0.00 | 15.92 | 1.35 | 0.00 | 2.04 | 0.02 | 0.00 |
| 15.94 | 1.37 | 0.00 | 2.03 | 0.02 | 0.00 | 15.96 | 1.39 | 0.00 | 2.02 | 0.02 | 0.00 |
| 15.98 | 1.42 | 0.00 | 2.01 | 0.02 | 0.00 | 16.00 | 1.45 | 0.00 | 2.00 | 0.02 | 0.00 |
| 16.02 | 1.46 | 0.00 | 1.99 | 0.02 | 0.00 | 16.04 | 1.43 | 0.00 | 1.98 | 0.02 | 0.00 |
| 16.06 | 1.40 | 0.00 | 1.97 | 0.02 | 0.00 | 16.08 | 1.42 | 0.00 | 1.96 | 0.02 | 0.00 |
| 16.10 | 1.51 | 0.00 | 1.95 | 0.02 | 0.00 | 16.12 | 1.44 | 0.00 | 1.94 | 0.02 | 0.00 |
| 16.14 | 1.55 | 0.00 | 1.93 | 0.02 | 0.00 | 16.16 | 1.58 | 0.00 | 1.92 | 0.02 | 0.00 |
| 16.18 | 1.69 | 0.00 | 1.91 | 0.02 | 0.00 | 16.20 | 1.60 | 0.00 | 1.90 | 0.02 | 0.00 |
| 16.22 | 1.48 | 0.00 | 1.89 | 0.02 | 0.00 | 16.24 | 1.37 | 0.00 | 1.88 | 0.02 | 0.00 |
| 16.26 | 1.31 | 0.00 | 1.87 | 0.02 | 0.00 | 16.28 | 1.30 | 0.00 | 1.86 | 0.02 | 0.00 |
| 16.30 | 1.33 | 0.00 | 1.85 | 0.02 | 0.00 | 16.32 | 1.38 | 0.00 | 1.84 | 0.02 | 0.00 |
| 16.34 | 1.40 | 0.00 | 1.83 | 0.02 | 0.00 | 16.36 | 1.38 | 0.00 | 1.82 | 0.02 | 0.00 |
| 16.38 | 1.33 | 0.00 | 1.81 | 0.02 | 0.00 | 16.40 | 1.30 | 0.00 | 1.80 | 0.02 | 0.00 |
| 16.42 | 1.27 | 0.00 | 1.79 | 0.02 | 0.00 | 16.44 | 1.25 | 0.00 | 1.78 | 0.02 | 0.00 |
| 16.46 | 1.26 | 0.00 | 1.77 | 0.02 | 0.00 | 16.48 | 1.28 | 0.00 | 1.76 | 0.02 | 0.00 |
| 16.50 | 1.29 | 0.00 | 1.75 | 0.02 | 0.00 | 16.52 | 1.29 | 0.00 | 1.74 | 0.02 | 0.00 |
| 16.54 | 1.32 | 0.00 | 1.73 | 0.02 | 0.00 | 16.56 | 1.37 | 0.00 | 1.72 | 0.02 | 0.00 |
| 16.58 | 1.45 | 0.00 | 1.71 | 0.02 | 0.00 | 16.60 | 1.55 | 0.00 | 1.70 | 0.02 | 0.00 |
| 16.62 | 1.62 | 0.00 | 1.69 | 0.02 | 0.00 | 16.64 | 1.72 | 0.00 | 1.68 | 0.02 | 0.00 |
| 16.66 | 1.85 | 0.00 | 1.67 | 0.02 | 0.00 | 16.68 | 1.98 | 0.00 | 1.66 | 0.02 | 0.00 |
| 16.70 | 1.94 | 0.00 | 1.65 | 0.02 | 0.00 | 16.72 | 1.84 | 0.00 | 1.64 | 0.02 | 0.00 |
| 16.74 | 1.64 | 0.00 | 1.63 | 0.02 | 0.00 | 16.76 | 1.51 | 0.00 | 1.62 | 0.02 | 0.00 |
| 16.78 | 1.39 | 0.00 | 1.61 | 0.02 | 0.00 | 16.80 | 1.35 | 0.00 | 1.60 | 0.02 | 0.00 |
| 16.82 | 1.36 | 0.00 | 1.59 | 0.02 | 0.00 | 16.84 | 1.40 | 0.00 | 1.58 | 0.02 | 0.00 |
| 16.86 | 1.45 | 0.00 | 1.57 | 0.02 | 0.00 | 16.88 | 1.50 | 0.00 | 1.56 | 0.02 | 0.00 |
| 16.90 | 1.49 | 0.00 | 1.55 | 0.02 | 0.00 | 16.92 | 1.46 | 0.00 | 1.54 | 0.02 | 0.00 |
| 16.94 | 1.40 | 0.00 | 1.53 | 0.02 | 0.00 | 16.96 | 1.37 | 0.00 | 1.52 | 0.02 | 0.00 |
| 16.98 | 1.36 | 0.00 | 1.51 | 0.02 | 0.00 | 17.00 | 1.35 | 0.00 | 1.50 | 0.02 | 0.00 |
| 17.02 | 1.36 | 0.00 | 1.49 | 0.02 | 0.00 | 17.04 | 1.39 | 0.00 | 1.48 | 0.02 | 0.00 |
| 17.06 | 1.44 | 0.00 | 1.47 | 0.02 | 0.00 | 17.08 | 1.50 | 0.00 | 1.46 | 0.02 | 0.00 |
| 17.10 | 1.53 | 0.00 | 1.45 | 0.02 | 0.00 | 17.12 | 2.00 | 0.00 | 1.44 | 0.02 | 0.00 |
| 17.14 | 2.00 | 0.00 | 1.43 | 0.02 | 0.00 | 17.16 | 2.00 | 0.00 | 1.42 | 0.02 | 0.00 |
| 17.18 | 1.54 | 0.00 | 1.41 | 0.02 | 0.00 | 17.20 | 1.53 | 0.00 | 1.40 | 0.02 | 0.00 |
| 17.22 | 1.51 | 0.00 | 1.39 | 0.02 | 0.00 | 17.24 | 2.00 | 0.00 | 1.38 | 0.02 | 0.00 |
| 17.26 | 2.00 | 0.00 | 1.37 | 0.02 | 0.00 | 17.28 | 1.38 | 0.00 | 1.36 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 17.30 | 1.32 | 0.00 | 1.35 | 0.02 | 0.00 | 17.32 | 1.31 | 0.00 | 1.34 | 0.02 | 0.00 |
| 17.34 | 1.29 | 0.00 | 1.33 | 0.02 | 0.00 | 17.36 | 1.26 | 0.00 | 1.32 | 0.02 | 0.00 |
| 17.38 | 1.26 | 0.00 | 1.31 | 0.02 | 0.00 | 17.40 | 1.27 | 0.00 | 1.30 | 0.02 | 0.00 |
| 17.42 | 1.29 | 0.00 | 1.29 | 0.02 | 0.00 | 17.44 | 1.29 | 0.00 | 1.28 | 0.02 | 0.00 |
| 17.46 | 1.28 | 0.00 | 1.27 | 0.02 | 0.00 | 17.48 | 1.31 | 0.00 | 1.26 | 0.02 | 0.00 |
| 17.50 | 1.36 | 0.00 | 1.25 | 0.02 | 0.00 | 17.52 | 2.00 | 0.00 | 1.24 | 0.02 | 0.00 |
| 17.54 | 2.00 | 0.00 | 1.23 | 0.02 | 0.00 | 17.56 | 2.00 | 0.00 | 1.22 | 0.02 | 0.00 |
| 17.58 | 2.00 | 0.00 | 1.21 | 0.02 | 0.00 | 17.60 | 2.00 | 0.00 | 1.20 | 0.02 | 0.00 |
| 17.62 | 2.00 | 0.00 | 1.19 | 0.02 | 0.00 | 17.64 | 2.00 | 0.00 | 1.18 | 0.02 | 0.00 |
| 17.66 | 2.00 | 0.00 | 1.17 | 0.02 | 0.00 | 17.68 | 1.37 | 0.00 | 1.16 | 0.02 | 0.00 |
| 17.70 | 1.33 | 0.00 | 1.15 | 0.02 | 0.00 | 17.72 | 1.28 | 0.00 | 1.14 | 0.02 | 0.00 |
| 17.74 | 1.21 | 0.00 | 1.13 | 0.02 | 0.00 | 17.76 | 1.17 | 0.00 | 1.12 | 0.02 | 0.00 |
| 17.78 | 1.17 | 0.00 | 1.11 | 0.02 | 0.00 | 17.80 | 1.22 | 0.00 | 1.10 | 0.02 | 0.00 |
| 17.82 | 1.28 | 0.00 | 1.09 | 0.02 | 0.00 | 17.84 | 2.00 | 0.00 | 1.08 | 0.02 | 0.00 |
| 17.86 | 2.00 | 0.00 | 1.07 | 0.02 | 0.00 | 17.88 | 2.00 | 0.00 | 1.06 | 0.02 | 0.00 |
| 17.90 | 2.00 | 0.00 | 1.05 | 0.02 | 0.00 | 17.92 | 2.00 | 0.00 | 1.04 | 0.02 | 0.00 |
| 17.94 | 2.00 | 0.00 | 1.03 | 0.02 | 0.00 | 17.96 | 2.00 | 0.00 | 1.02 | 0.02 | 0.00 |
| 17.98 | 2.00 | 0.00 | 1.01 | 0.02 | 0.00 | 18.00 | 2.00 | 0.00 | 1.00 | 0.02 | 0.00 |
| 18.02 | 2.00 | 0.00 | 0.99 | 0.02 | 0.00 | 18.04 | 2.00 | 0.00 | 0.98 | 0.02 | 0.00 |
| 18.06 | 2.00 | 0.00 | 0.97 | 0.02 | 0.00 | 18.08 | 2.00 | 0.00 | 0.96 | 0.02 | 0.00 |
| 18.10 | 2.00 | 0.00 | 0.95 | 0.02 | 0.00 | 18.12 | 2.00 | 0.00 | 0.94 | 0.02 | 0.00 |
| 18.14 | 2.00 | 0.00 | 0.93 | 0.02 | 0.00 | 18.16 | 2.00 | 0.00 | 0.92 | 0.02 | 0.00 |
| 18.18 | 2.00 | 0.00 | 0.91 | 0.02 | 0.00 | 18.20 | 2.00 | 0.00 | 0.90 | 0.02 | 0.00 |
| 18.22 | 2.00 | 0.00 | 0.89 | 0.02 | 0.00 | 18.24 | 2.00 | 0.00 | 0.88 | 0.02 | 0.00 |
| 18.26 | 2.00 | 0.00 | 0.87 | 0.02 | 0.00 | 18.28 | 2.00 | 0.00 | 0.86 | 0.02 | 0.00 |
| 18.30 | 2.00 | 0.00 | 0.85 | 0.02 | 0.00 | 18.32 | 2.00 | 0.00 | 0.84 | 0.02 | 0.00 |
| 18.34 | 2.00 | 0.00 | 0.83 | 0.02 | 0.00 | 18.36 | 2.00 | 0.00 | 0.82 | 0.02 | 0.00 |
| 18.38 | 2.00 | 0.00 | 0.81 | 0.02 | 0.00 | 18.40 | 2.00 | 0.00 | 0.80 | 0.02 | 0.00 |
| 18.42 | 2.00 | 0.00 | 0.79 | 0.02 | 0.00 | 18.44 | 2.00 | 0.00 | 0.78 | 0.02 | 0.00 |
| 18.46 | 2.00 | 0.00 | 0.77 | 0.02 | 0.00 | 18.48 | 2.00 | 0.00 | 0.76 | 0.02 | 0.00 |
| 18.50 | 2.00 | 0.00 | 0.75 | 0.02 | 0.00 | 18.52 | 2.00 | 0.00 | 0.74 | 0.02 | 0.00 |
| 18.54 | 2.00 | 0.00 | 0.73 | 0.02 | 0.00 | 18.56 | 2.00 | 0.00 | 0.72 | 0.02 | 0.00 |
| 18.58 | 2.00 | 0.00 | 0.71 | 0.02 | 0.00 | 18.60 | 2.00 | 0.00 | 0.70 | 0.02 | 0.00 |
| 18.62 | 2.00 | 0.00 | 0.69 | 0.02 | 0.00 | 18.64 | 2.00 | 0.00 | 0.68 | 0.02 | 0.00 |
| 18.66 | 2.00 | 0.00 | 0.67 | 0.02 | 0.00 | 18.68 | 2.00 | 0.00 | 0.66 | 0.02 | 0.00 |
| 18.70 | 2.00 | 0.00 | 0.65 | 0.02 | 0.00 | 18.72 | 2.00 | 0.00 | 0.64 | 0.02 | 0.00 |
| 18.74 | 2.00 | 0.00 | 0.63 | 0.02 | 0.00 | 18.76 | 2.00 | 0.00 | 0.62 | 0.02 | 0.00 |
| 18.78 | 2.00 | 0.00 | 0.61 | 0.02 | 0.00 | 18.80 | 2.00 | 0.00 | 0.60 | 0.02 | 0.00 |
| 18.82 | 2.00 | 0.00 | 0.59 | 0.02 | 0.00 | 18.84 | 2.00 | 0.00 | 0.58 | 0.02 | 0.00 |
| 18.86 | 2.00 | 0.00 | 0.57 | 0.02 | 0.00 | 18.88 | 2.00 | 0.00 | 0.56 | 0.02 | 0.00 |
| 18.90 | 2.00 | 0.00 | 0.55 | 0.02 | 0.00 | 18.92 | 2.00 | 0.00 | 0.54 | 0.02 | 0.00 |
| 18.94 | 2.00 | 0.00 | 0.53 | 0.02 | 0.00 | 18.96 | 2.00 | 0.00 | 0.52 | 0.02 | 0.00 |
| 18.98 | 2.00 | 0.00 | 0.51 | 0.02 | 0.00 | 19.00 | 2.00 | 0.00 | 0.50 | 0.02 | 0.00 |
| 19.02 | 2.00 | 0.00 | 0.49 | 0.02 | 0.00 | 19.04 | 2.00 | 0.00 | 0.48 | 0.02 | 0.00 |
| 19.06 | 2.00 | 0.00 | 0.47 | 0.02 | 0.00 | 19.08 | 2.00 | 0.00 | 0.46 | 0.02 | 0.00 |
| 19.10 | 2.00 | 0.00 | 0.45 | 0.02 | 0.00 | 19.12 | 2.00 | 0.00 | 0.44 | 0.02 | 0.00 |
| 19.14 | 2.00 | 0.00 | 0.43 | 0.02 | 0.00 | 19.16 | 2.00 | 0.00 | 0.42 | 0.02 | 0.00 |
| 19.18 | 2.00 | 0.00 | 0.41 | 0.02 | 0.00 | 19.20 | 2.00 | 0.00 | 0.40 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 19.22 | 2.00 | 0.00 | 0.39 | 0.02 | 0.00 | 19.24 | 2.00 | 0.00 | 0.38 | 0.02 | 0.00 |
| 19.26 | 2.00 | 0.00 | 0.37 | 0.02 | 0.00 | 19.28 | 2.00 | 0.00 | 0.36 | 0.02 | 0.00 |
| 19.30 | 2.00 | 0.00 | 0.35 | 0.02 | 0.00 | 19.32 | 2.00 | 0.00 | 0.34 | 0.02 | 0.00 |
| 19.34 | 2.00 | 0.00 | 0.33 | 0.02 | 0.00 | 19.36 | 2.00 | 0.00 | 0.32 | 0.02 | 0.00 |
| 19.38 | 2.00 | 0.00 | 0.31 | 0.02 | 0.00 | 19.40 | 2.00 | 0.00 | 0.30 | 0.02 | 0.00 |
| 19.42 | 2.00 | 0.00 | 0.29 | 0.02 | 0.00 | 19.44 | 2.00 | 0.00 | 0.28 | 0.02 | 0.00 |
| 19.46 | 2.00 | 0.00 | 0.27 | 0.02 | 0.00 | 19.48 | 2.00 | 0.00 | 0.26 | 0.02 | 0.00 |
| 19.50 | 2.00 | 0.00 | 0.25 | 0.02 | 0.00 | 19.52 | 2.00 | 0.00 | 0.24 | 0.02 | 0.00 |
| 19.54 | 2.00 | 0.00 | 0.23 | 0.02 | 0.00 | 19.56 | 2.00 | 0.00 | 0.22 | 0.02 | 0.00 |
| 19.58 | 2.00 | 0.00 | 0.21 | 0.02 | 0.00 | 19.60 | 1.38 | 0.00 | 0.20 | 0.02 | 0.00 |
| 19.62 | 1.52 | 0.00 | 0.19 | 0.02 | 0.00 | 19.64 | 2.00 | 0.00 | 0.18 | 0.02 | 0.00 |
| 19.66 | 2.00 | 0.00 | 0.17 | 0.02 | 0.00 | 19.68 | 2.00 | 0.00 | 0.16 | 0.02 | 0.00 |
| 19.70 | 2.00 | 0.00 | 0.15 | 0.02 | 0.00 | 19.72 | 2.00 | 0.00 | 0.14 | 0.02 | 0.00 |
| 19.74 | 2.00 | 0.00 | 0.13 | 0.02 | 0.00 | 19.76 | 2.00 | 0.00 | 0.12 | 0.02 | 0.00 |
| 19.78 | 2.00 | 0.00 | 0.11 | 0.02 | 0.00 | 19.80 | 2.00 | 0.00 | 0.10 | 0.02 | 0.00 |
| 19.82 | 2.00 | 0.00 | 0.09 | 0.02 | 0.00 | 19.84 | 2.00 | 0.00 | 0.08 | 0.02 | 0.00 |
| 19.86 | 2.00 | 0.00 | 0.07 | 0.02 | 0.00 | 19.88 | 2.00 | 0.00 | 0.06 | 0.02 | 0.00 |
| 19.90 | 2.00 | 0.00 | 0.05 | 0.02 | 0.00 | | | | | | |

Overall liquefaction potential: 0.12

LPI = 0.00 - Liquefaction risk very low
 LPI between 0.00 and 5.00 - Liquefaction risk low
 LPI between 5.00 and 15.00 - Liquefaction risk high
 LPI > 15.00 - Liquefaction risk very high

Abbreviations

FS: Calculated factor of safety for test point
 F_L: 1 - FS
 w_z: Function value of the extend of soil liquefaction according to depth
 d_z: Layer thickness (m)
 LPI: Liquefaction potential index value for test point

LIQUEFACTION ANALYSIS REPORT

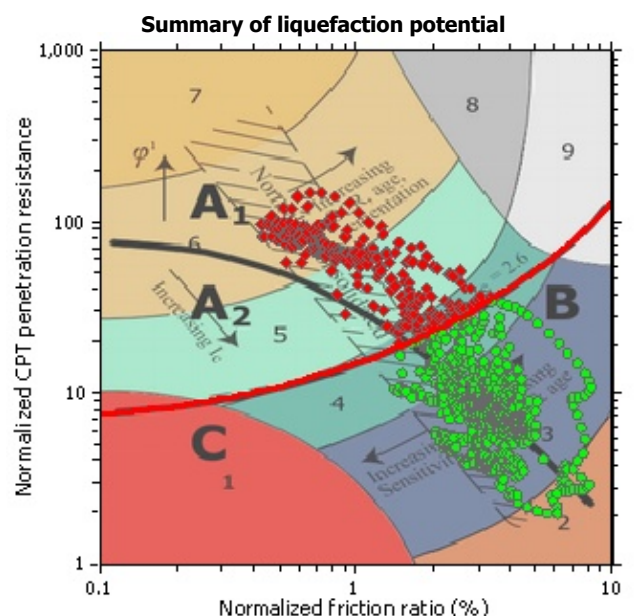
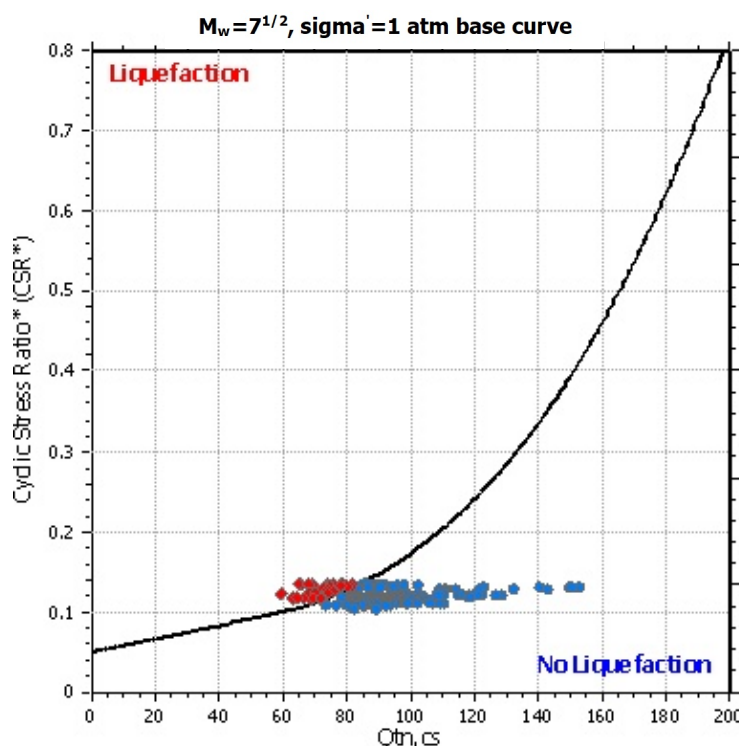
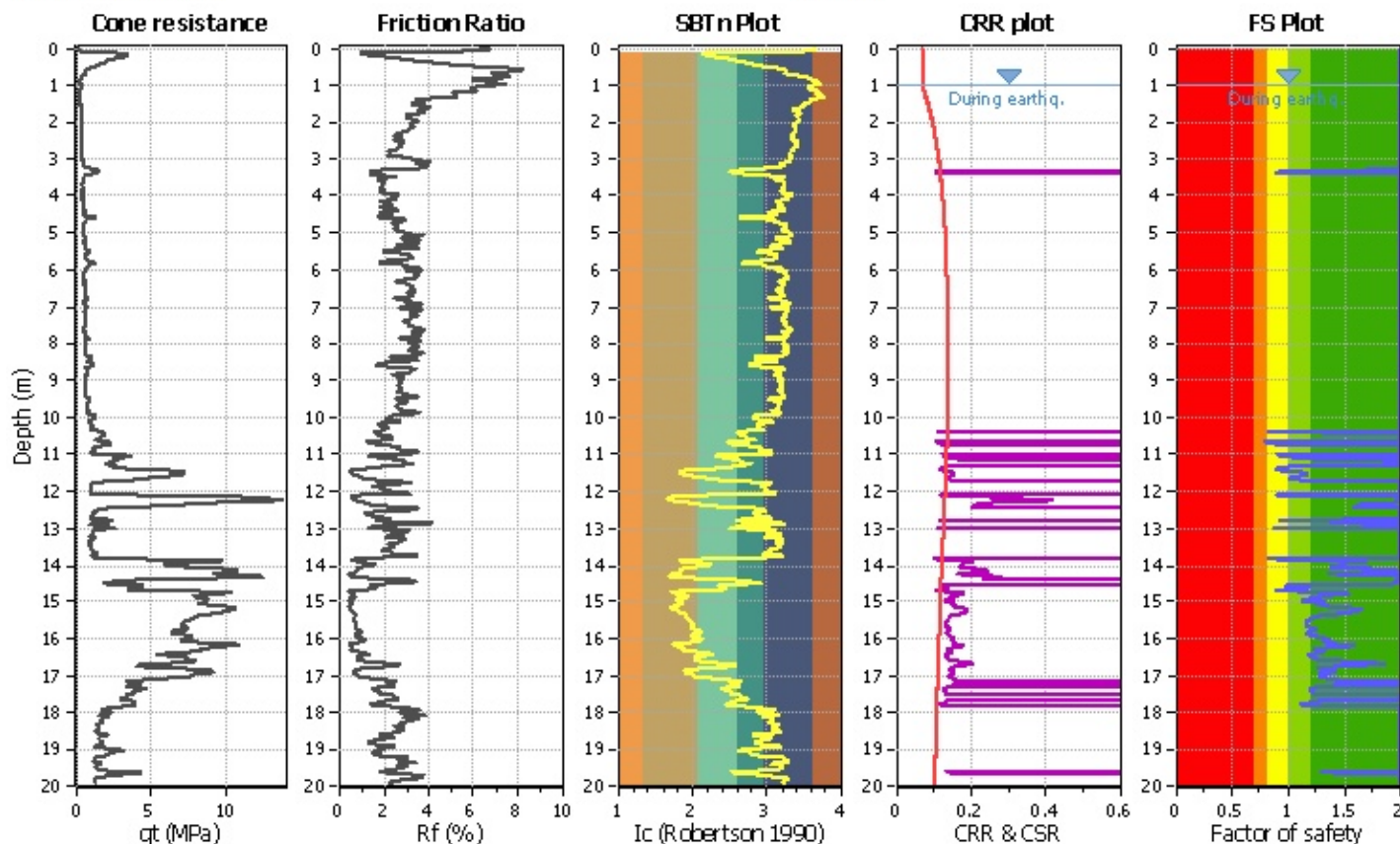
Project title :

Location :

CPT file : CPTU1

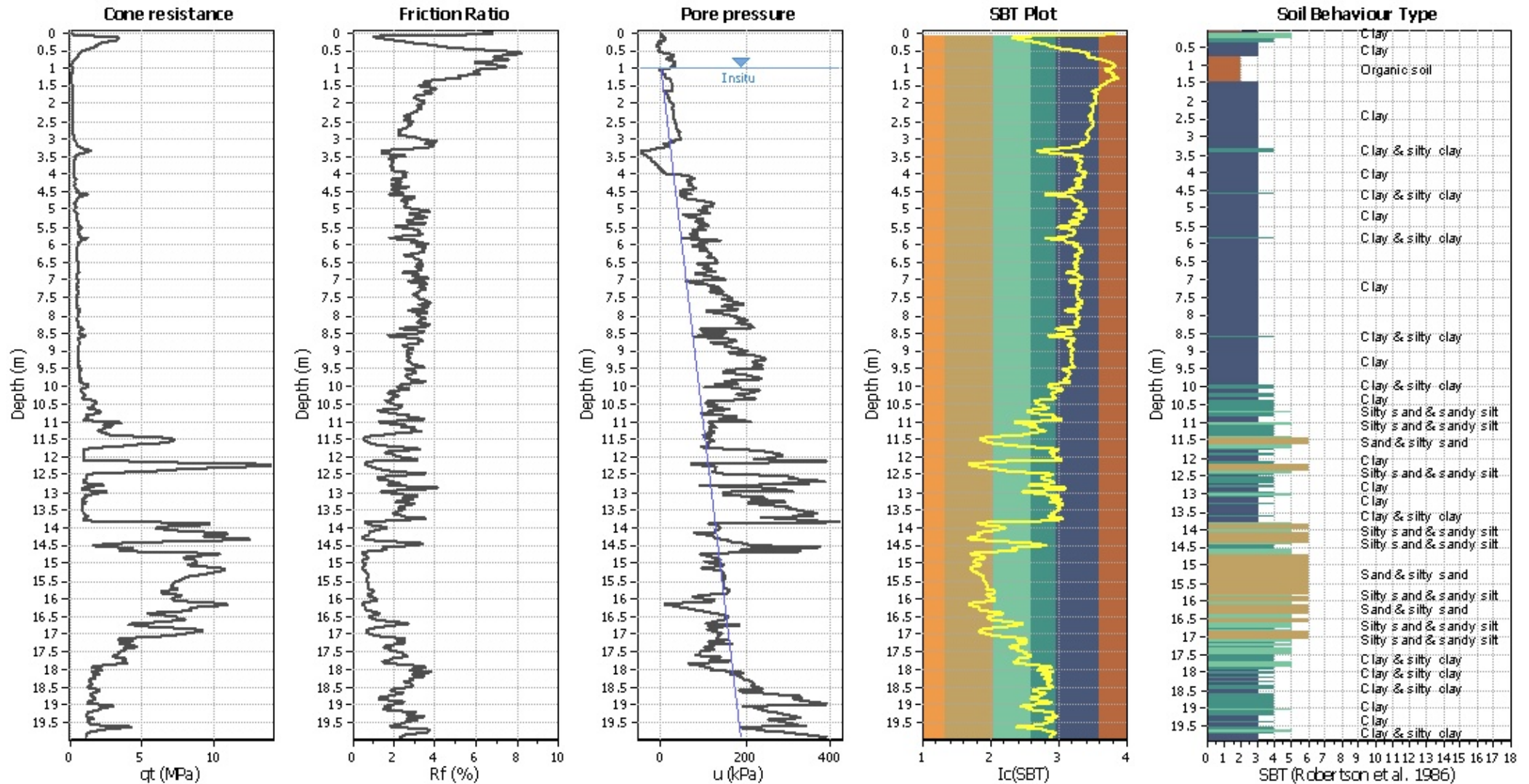
Input parameters and analysis data

| | | | | | | | |
|------------------------------|-------------------|---------------------------|--------------|-------------------------|-----|----------------------|--------------|
| Analysis method: | NCEER (1998) | G.W.T. (in-situ): | 1.00 m | Use fill: | No | Clay like behavior | |
| Fines correction method: | NCEER (1998) | G.W.T. (earthq.): | 1.00 m | Fill height: | N/A | applied: | Sands only |
| Points to test: | Based on Ic value | Average results interval: | 3 | Fill weight: | N/A | Limit depth applied: | No |
| Earthquake magnitude M_w : | 6.14 | Ic cut-off value: | 2.60 | Trans. detect. applied: | No | Limit depth: | N/A |
| Peak ground acceleration: | 0.17 | Unit weight calculation: | Based on SBT | K_0 applied: | Yes | MSF method: | Method based |



Zone A₁: Cyclic liquefaction likely depending on size and duration of cyclic loading
 Zone A₂: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
 Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
 Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

CPT basic interpretation plo



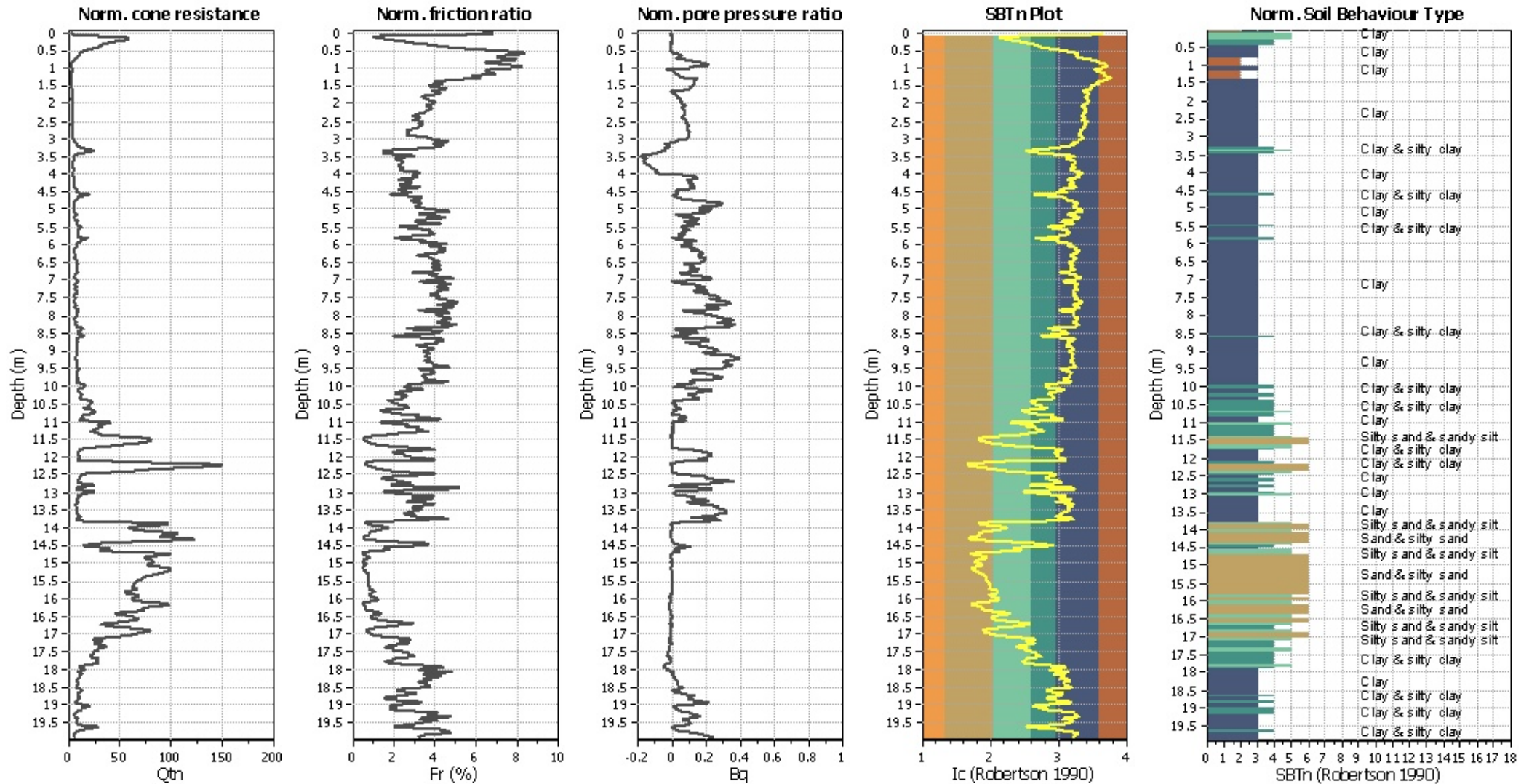
Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 6.14 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

SBT legend

| | | |
|---------------------------|-----------------------------|----------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty | 7. Gravely sand to sand |
| 2. Organic material | 5. Silty sand to sandy silt | 8. Very stiff sand to |
| 3. Clay to silty clay | 6. Clean sand to silty sand | 9. Very stiff fine grained |

CPT basic interpretation plots (normaliz



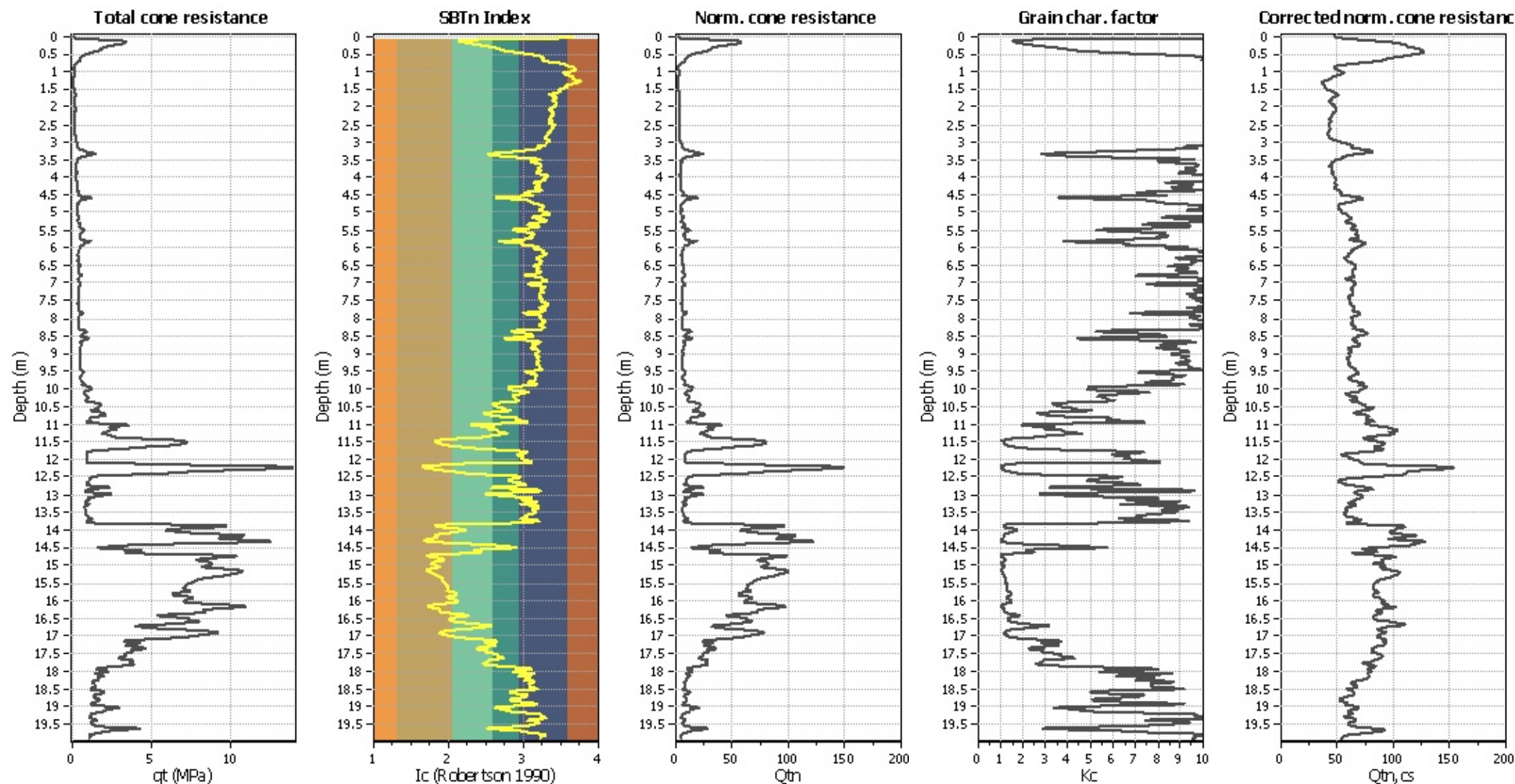
Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 6.14 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

SBTn legend

| | | |
|---------------------------|-----------------------------|----------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty | 7. Gravely sand to sand |
| 2. Organic material | 5. Silty sand to sandy silt | 8. Very stiff sand to |
| 3. Clay to silty clay | 6. Clean sand to silty sand | 9. Very stiff fine grained |

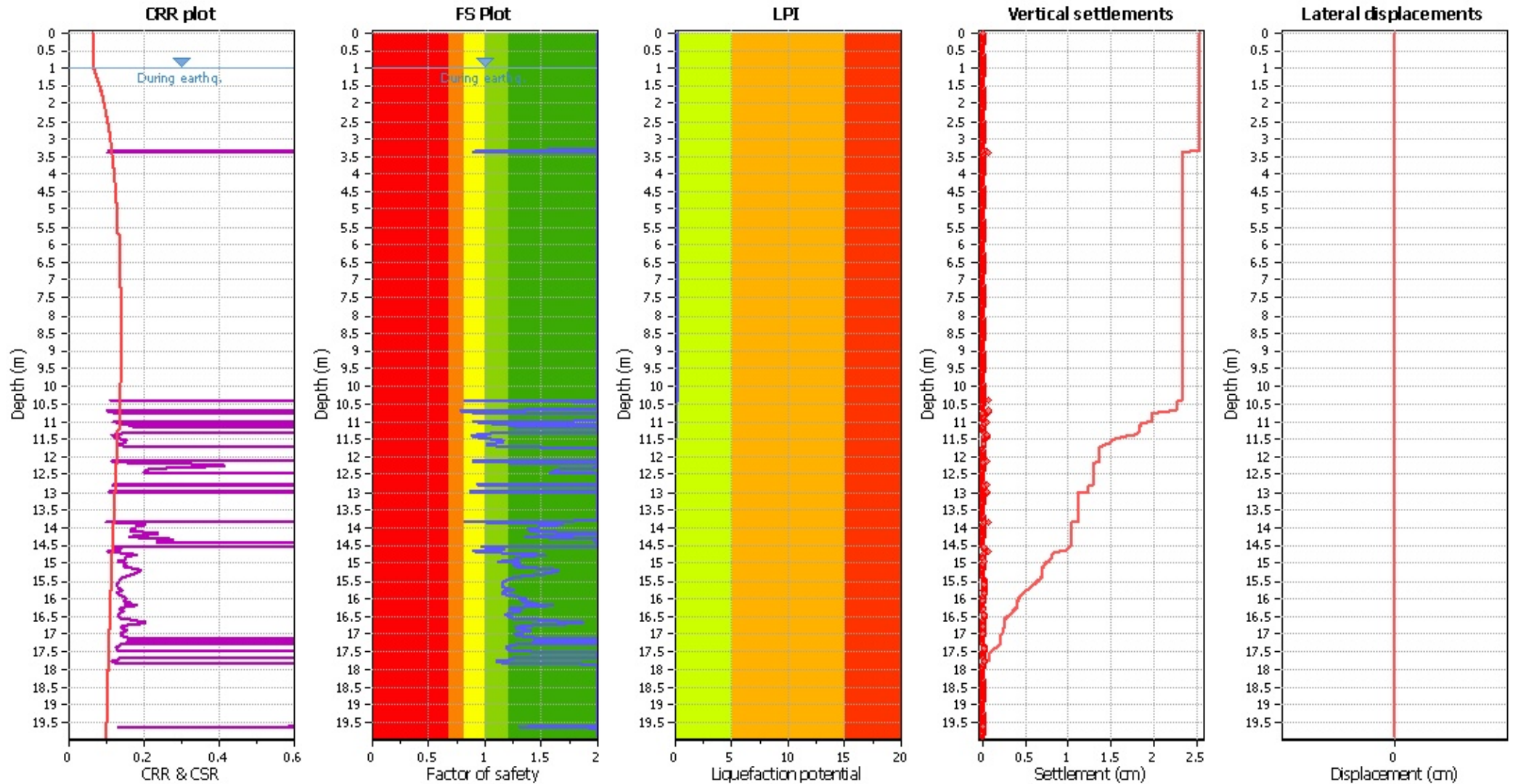
Liquefaction analysis overall plots (intermediate res)



Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 6.14 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

Liquefaction analysis overall plot



Input parameters and analysis data

| | | | | | |
|--------------------------------|-------------------|---------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (earthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 6.14 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

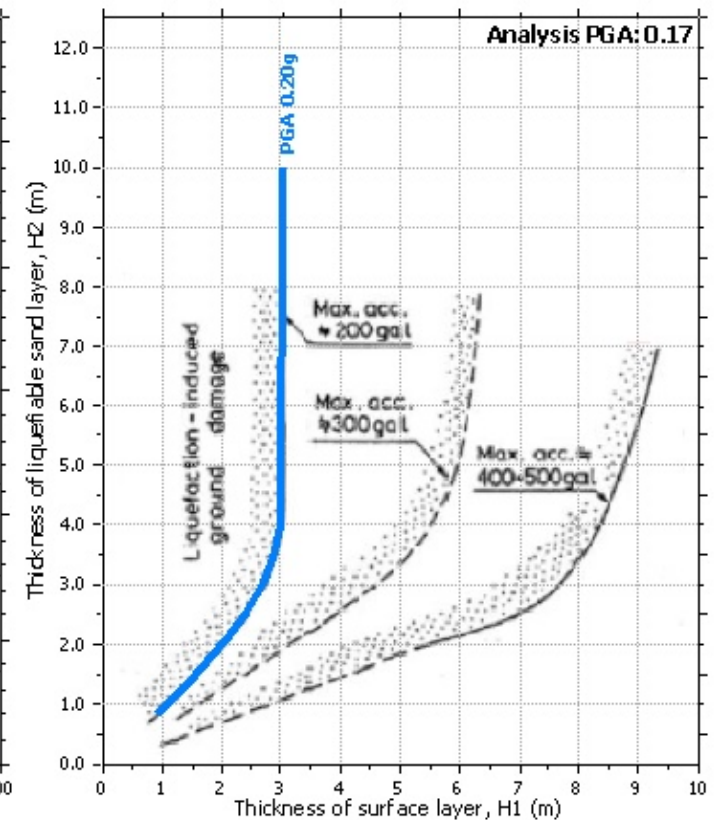
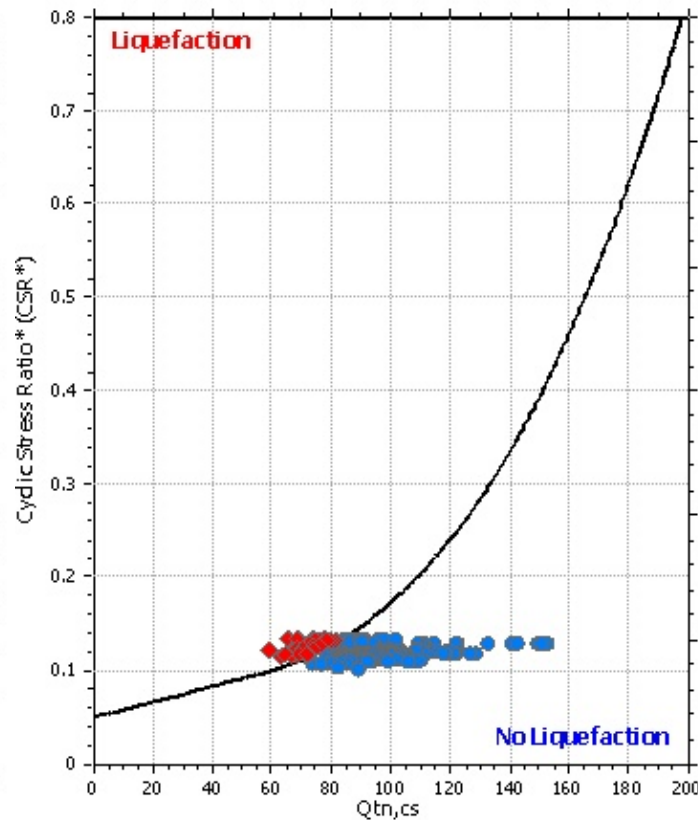
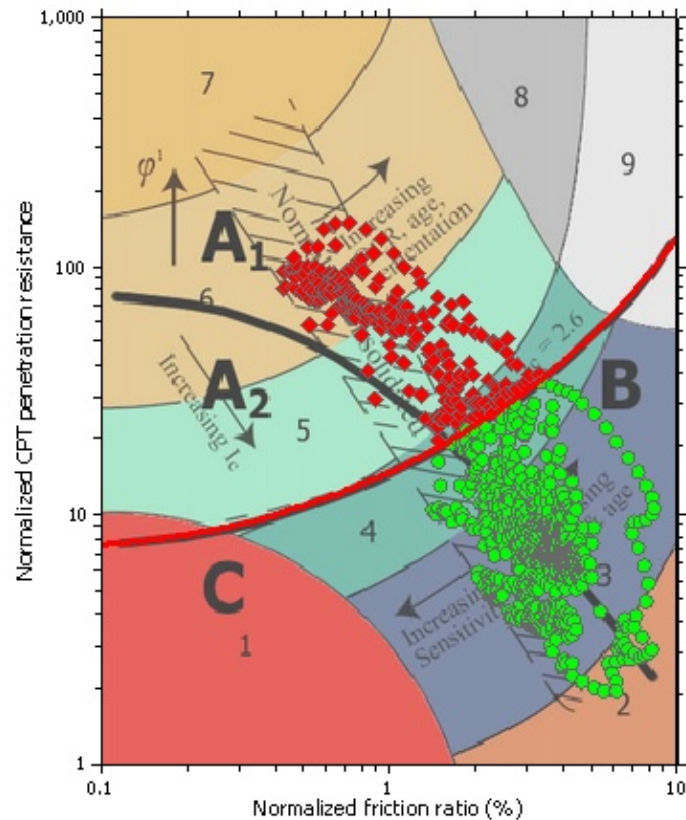
F.S. color scheme

| | |
|---|---|
| ■ | Almost certain it will liquefy |
| ■ | Very likely to liquefy |
| ■ | Liquefaction and no liq. are equally likely |
| ■ | Unlike to liquefy |
| ■ | Almost certain it will not liquefy |

LPI color scheme

| | |
|---------------------------------------|----------------|
| ■ | Very high risk |
| ■ | High risk |
| ■ | Low risk |

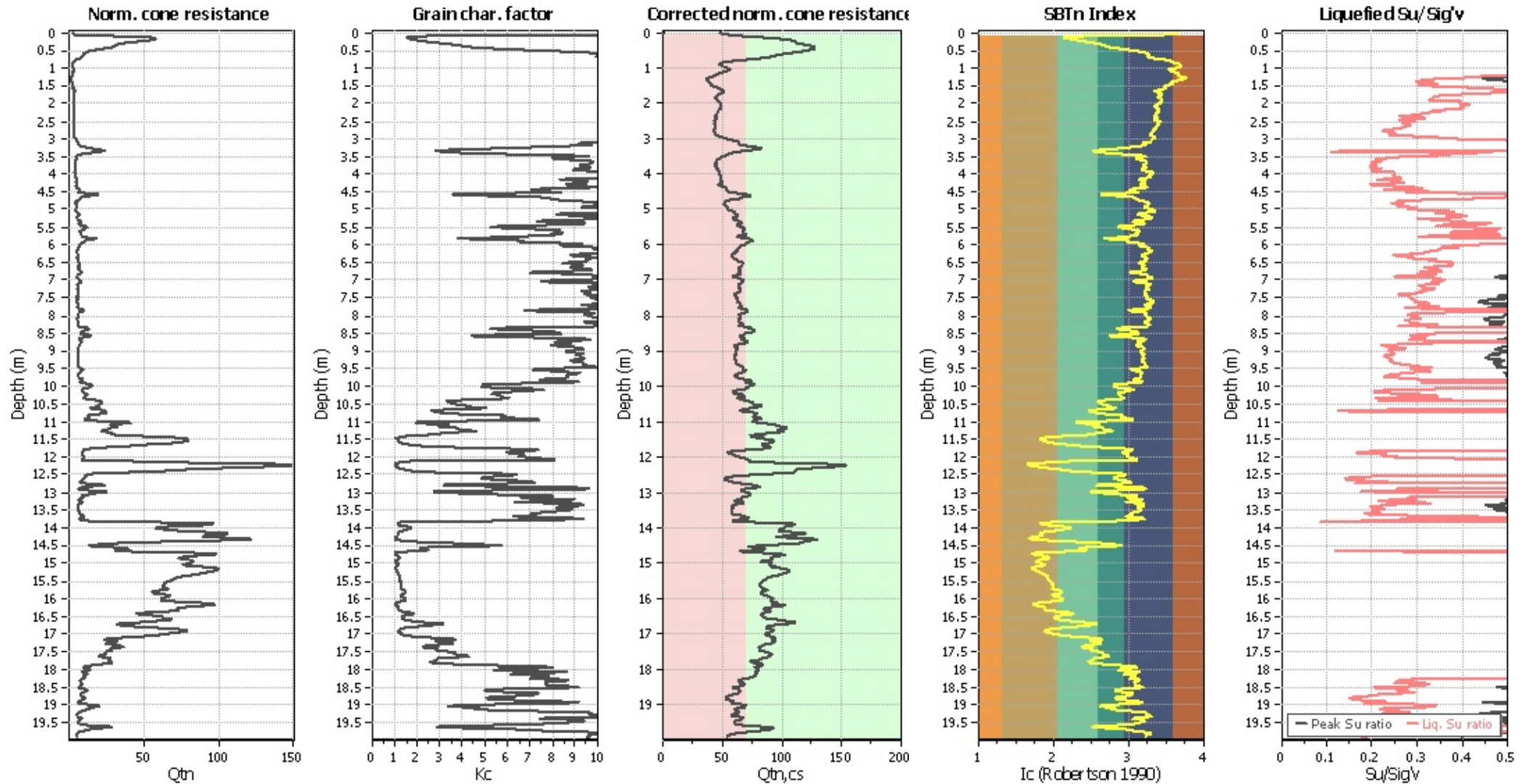
Liquefaction analysis summary plo



Input parameters and analysis data

| | | | | | |
|---------------------------------------|-------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K _g applied: | Yes |
| Earthquake magnitude M _w : | 6.14 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

Check for strength loss plots (Robertson (2010))



Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_o applied: | Yes |
| Earthquake magnitude M_w : | 6.14 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

| :: Liquefaction Potential Index calculation data :: | | | | | | | | | | | |
|---|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
| 0.02 | 2.00 | 0.00 | 9.99 | 0.02 | 0.00 | 0.04 | 2.00 | 0.00 | 9.98 | 0.02 | 0.00 |
| 0.06 | 2.00 | 0.00 | 9.97 | 0.02 | 0.00 | 0.08 | 2.00 | 0.00 | 9.96 | 0.02 | 0.00 |
| 0.10 | 2.00 | 0.00 | 9.95 | 0.02 | 0.00 | 0.12 | 2.00 | 0.00 | 9.94 | 0.02 | 0.00 |
| 0.14 | 2.00 | 0.00 | 9.93 | 0.02 | 0.00 | 0.16 | 2.00 | 0.00 | 9.92 | 0.02 | 0.00 |
| 0.18 | 2.00 | 0.00 | 9.91 | 0.02 | 0.00 | 0.20 | 2.00 | 0.00 | 9.90 | 0.02 | 0.00 |
| 0.22 | 2.00 | 0.00 | 9.89 | 0.02 | 0.00 | 0.24 | 2.00 | 0.00 | 9.88 | 0.02 | 0.00 |
| 0.26 | 2.00 | 0.00 | 9.87 | 0.02 | 0.00 | 0.28 | 2.00 | 0.00 | 9.86 | 0.02 | 0.00 |
| 0.30 | 2.00 | 0.00 | 9.85 | 0.02 | 0.00 | 0.32 | 2.00 | 0.00 | 9.84 | 0.02 | 0.00 |
| 0.34 | 2.00 | 0.00 | 9.83 | 0.02 | 0.00 | 0.36 | 2.00 | 0.00 | 9.82 | 0.02 | 0.00 |
| 0.38 | 2.00 | 0.00 | 9.81 | 0.02 | 0.00 | 0.40 | 2.00 | 0.00 | 9.80 | 0.02 | 0.00 |
| 0.42 | 2.00 | 0.00 | 9.79 | 0.02 | 0.00 | 0.44 | 2.00 | 0.00 | 9.78 | 0.02 | 0.00 |
| 0.46 | 2.00 | 0.00 | 9.77 | 0.02 | 0.00 | 0.48 | 2.00 | 0.00 | 9.76 | 0.02 | 0.00 |
| 0.50 | 2.00 | 0.00 | 9.75 | 0.02 | 0.00 | 0.52 | 2.00 | 0.00 | 9.74 | 0.02 | 0.00 |
| 0.54 | 2.00 | 0.00 | 9.73 | 0.02 | 0.00 | 0.56 | 2.00 | 0.00 | 9.72 | 0.02 | 0.00 |
| 0.58 | 2.00 | 0.00 | 9.71 | 0.02 | 0.00 | 0.60 | 2.00 | 0.00 | 9.70 | 0.02 | 0.00 |
| 0.62 | 2.00 | 0.00 | 9.69 | 0.02 | 0.00 | 0.64 | 2.00 | 0.00 | 9.68 | 0.02 | 0.00 |
| 0.66 | 2.00 | 0.00 | 9.67 | 0.02 | 0.00 | 0.68 | 2.00 | 0.00 | 9.66 | 0.02 | 0.00 |
| 0.70 | 2.00 | 0.00 | 9.65 | 0.02 | 0.00 | 0.72 | 2.00 | 0.00 | 9.64 | 0.02 | 0.00 |
| 0.74 | 2.00 | 0.00 | 9.63 | 0.02 | 0.00 | 0.76 | 2.00 | 0.00 | 9.62 | 0.02 | 0.00 |
| 0.78 | 2.00 | 0.00 | 9.61 | 0.02 | 0.00 | 0.80 | 2.00 | 0.00 | 9.60 | 0.02 | 0.00 |
| 0.82 | 2.00 | 0.00 | 9.59 | 0.02 | 0.00 | 0.84 | 2.00 | 0.00 | 9.58 | 0.02 | 0.00 |
| 0.86 | 2.00 | 0.00 | 9.57 | 0.02 | 0.00 | 0.88 | 2.00 | 0.00 | 9.56 | 0.02 | 0.00 |
| 0.90 | 2.00 | 0.00 | 9.55 | 0.02 | 0.00 | 0.92 | 2.00 | 0.00 | 9.54 | 0.02 | 0.00 |
| 0.94 | 2.00 | 0.00 | 9.53 | 0.02 | 0.00 | 0.96 | 2.00 | 0.00 | 9.52 | 0.02 | 0.00 |
| 0.98 | 2.00 | 0.00 | 9.51 | 0.02 | 0.00 | 1.00 | 2.00 | 0.00 | 9.50 | 0.02 | 0.00 |
| 1.02 | 2.00 | 0.00 | 9.49 | 0.02 | 0.00 | 1.04 | 2.00 | 0.00 | 9.48 | 0.02 | 0.00 |
| 1.06 | 2.00 | 0.00 | 9.47 | 0.02 | 0.00 | 1.08 | 2.00 | 0.00 | 9.46 | 0.02 | 0.00 |
| 1.10 | 2.00 | 0.00 | 9.45 | 0.02 | 0.00 | 1.12 | 2.00 | 0.00 | 9.44 | 0.02 | 0.00 |
| 1.14 | 2.00 | 0.00 | 9.43 | 0.02 | 0.00 | 1.16 | 2.00 | 0.00 | 9.42 | 0.02 | 0.00 |
| 1.18 | 2.00 | 0.00 | 9.41 | 0.02 | 0.00 | 1.20 | 2.00 | 0.00 | 9.40 | 0.02 | 0.00 |
| 1.22 | 2.00 | 0.00 | 9.39 | 0.02 | 0.00 | 1.24 | 2.00 | 0.00 | 9.38 | 0.02 | 0.00 |
| 1.26 | 2.00 | 0.00 | 9.37 | 0.02 | 0.00 | 1.28 | 2.00 | 0.00 | 9.36 | 0.02 | 0.00 |
| 1.30 | 2.00 | 0.00 | 9.35 | 0.02 | 0.00 | 1.32 | 2.00 | 0.00 | 9.34 | 0.02 | 0.00 |
| 1.34 | 2.00 | 0.00 | 9.33 | 0.02 | 0.00 | 1.36 | 2.00 | 0.00 | 9.32 | 0.02 | 0.00 |
| 1.38 | 2.00 | 0.00 | 9.31 | 0.02 | 0.00 | 1.40 | 2.00 | 0.00 | 9.30 | 0.02 | 0.00 |
| 1.42 | 2.00 | 0.00 | 9.29 | 0.02 | 0.00 | 1.44 | 2.00 | 0.00 | 9.28 | 0.02 | 0.00 |
| 1.46 | 2.00 | 0.00 | 9.27 | 0.02 | 0.00 | 1.48 | 2.00 | 0.00 | 9.26 | 0.02 | 0.00 |
| 1.50 | 2.00 | 0.00 | 9.25 | 0.02 | 0.00 | 1.52 | 2.00 | 0.00 | 9.24 | 0.02 | 0.00 |
| 1.54 | 2.00 | 0.00 | 9.23 | 0.02 | 0.00 | 1.56 | 2.00 | 0.00 | 9.22 | 0.02 | 0.00 |
| 1.58 | 2.00 | 0.00 | 9.21 | 0.02 | 0.00 | 1.60 | 2.00 | 0.00 | 9.20 | 0.02 | 0.00 |
| 1.62 | 2.00 | 0.00 | 9.19 | 0.02 | 0.00 | 1.64 | 2.00 | 0.00 | 9.18 | 0.02 | 0.00 |
| 1.66 | 2.00 | 0.00 | 9.17 | 0.02 | 0.00 | 1.68 | 2.00 | 0.00 | 9.16 | 0.02 | 0.00 |
| 1.70 | 2.00 | 0.00 | 9.15 | 0.02 | 0.00 | 1.72 | 2.00 | 0.00 | 9.14 | 0.02 | 0.00 |
| 1.74 | 2.00 | 0.00 | 9.13 | 0.02 | 0.00 | 1.76 | 2.00 | 0.00 | 9.12 | 0.02 | 0.00 |
| 1.78 | 2.00 | 0.00 | 9.11 | 0.02 | 0.00 | 1.80 | 2.00 | 0.00 | 9.10 | 0.02 | 0.00 |
| 1.82 | 2.00 | 0.00 | 9.09 | 0.02 | 0.00 | 1.84 | 2.00 | 0.00 | 9.08 | 0.02 | 0.00 |
| 1.86 | 2.00 | 0.00 | 9.07 | 0.02 | 0.00 | 1.88 | 2.00 | 0.00 | 9.06 | 0.02 | 0.00 |
| 1.90 | 2.00 | 0.00 | 9.05 | 0.02 | 0.00 | 1.92 | 2.00 | 0.00 | 9.04 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 1.94 | 2.00 | 0.00 | 9.03 | 0.02 | 0.00 | 1.96 | 2.00 | 0.00 | 9.02 | 0.02 | 0.00 |
| 1.98 | 2.00 | 0.00 | 9.01 | 0.02 | 0.00 | 2.00 | 2.00 | 0.00 | 9.00 | 0.02 | 0.00 |
| 2.02 | 2.00 | 0.00 | 8.99 | 0.02 | 0.00 | 2.04 | 2.00 | 0.00 | 8.98 | 0.02 | 0.00 |
| 2.06 | 2.00 | 0.00 | 8.97 | 0.02 | 0.00 | 2.08 | 2.00 | 0.00 | 8.96 | 0.02 | 0.00 |
| 2.10 | 2.00 | 0.00 | 8.95 | 0.02 | 0.00 | 2.12 | 2.00 | 0.00 | 8.94 | 0.02 | 0.00 |
| 2.14 | 2.00 | 0.00 | 8.93 | 0.02 | 0.00 | 2.16 | 2.00 | 0.00 | 8.92 | 0.02 | 0.00 |
| 2.18 | 2.00 | 0.00 | 8.91 | 0.02 | 0.00 | 2.20 | 2.00 | 0.00 | 8.90 | 0.02 | 0.00 |
| 2.22 | 2.00 | 0.00 | 8.89 | 0.02 | 0.00 | 2.24 | 2.00 | 0.00 | 8.88 | 0.02 | 0.00 |
| 2.26 | 2.00 | 0.00 | 8.87 | 0.02 | 0.00 | 2.28 | 2.00 | 0.00 | 8.86 | 0.02 | 0.00 |
| 2.30 | 2.00 | 0.00 | 8.85 | 0.02 | 0.00 | 2.32 | 2.00 | 0.00 | 8.84 | 0.02 | 0.00 |
| 2.34 | 2.00 | 0.00 | 8.83 | 0.02 | 0.00 | 2.36 | 2.00 | 0.00 | 8.82 | 0.02 | 0.00 |
| 2.38 | 2.00 | 0.00 | 8.81 | 0.02 | 0.00 | 2.40 | 2.00 | 0.00 | 8.80 | 0.02 | 0.00 |
| 2.42 | 2.00 | 0.00 | 8.79 | 0.02 | 0.00 | 2.44 | 2.00 | 0.00 | 8.78 | 0.02 | 0.00 |
| 2.46 | 2.00 | 0.00 | 8.77 | 0.02 | 0.00 | 2.48 | 2.00 | 0.00 | 8.76 | 0.02 | 0.00 |
| 2.50 | 2.00 | 0.00 | 8.75 | 0.02 | 0.00 | 2.52 | 2.00 | 0.00 | 8.74 | 0.02 | 0.00 |
| 2.54 | 2.00 | 0.00 | 8.73 | 0.02 | 0.00 | 2.56 | 2.00 | 0.00 | 8.72 | 0.02 | 0.00 |
| 2.58 | 2.00 | 0.00 | 8.71 | 0.02 | 0.00 | 2.60 | 2.00 | 0.00 | 8.70 | 0.02 | 0.00 |
| 2.62 | 2.00 | 0.00 | 8.69 | 0.02 | 0.00 | 2.64 | 2.00 | 0.00 | 8.68 | 0.02 | 0.00 |
| 2.66 | 2.00 | 0.00 | 8.67 | 0.02 | 0.00 | 2.68 | 2.00 | 0.00 | 8.66 | 0.02 | 0.00 |
| 2.70 | 2.00 | 0.00 | 8.65 | 0.02 | 0.00 | 2.72 | 2.00 | 0.00 | 8.64 | 0.02 | 0.00 |
| 2.74 | 2.00 | 0.00 | 8.63 | 0.02 | 0.00 | 2.76 | 2.00 | 0.00 | 8.62 | 0.02 | 0.00 |
| 2.78 | 2.00 | 0.00 | 8.61 | 0.02 | 0.00 | 2.80 | 2.00 | 0.00 | 8.60 | 0.02 | 0.00 |
| 2.82 | 2.00 | 0.00 | 8.59 | 0.02 | 0.00 | 2.84 | 2.00 | 0.00 | 8.58 | 0.02 | 0.00 |
| 2.86 | 2.00 | 0.00 | 8.57 | 0.02 | 0.00 | 2.88 | 2.00 | 0.00 | 8.56 | 0.02 | 0.00 |
| 2.90 | 2.00 | 0.00 | 8.55 | 0.02 | 0.00 | 2.92 | 2.00 | 0.00 | 8.54 | 0.02 | 0.00 |
| 2.94 | 2.00 | 0.00 | 8.53 | 0.02 | 0.00 | 2.96 | 2.00 | 0.00 | 8.52 | 0.02 | 0.00 |
| 2.98 | 2.00 | 0.00 | 8.51 | 0.02 | 0.00 | 3.00 | 2.00 | 0.00 | 8.50 | 0.02 | 0.00 |
| 3.02 | 2.00 | 0.00 | 8.49 | 0.02 | 0.00 | 3.04 | 2.00 | 0.00 | 8.48 | 0.02 | 0.00 |
| 3.06 | 2.00 | 0.00 | 8.47 | 0.02 | 0.00 | 3.08 | 2.00 | 0.00 | 8.46 | 0.02 | 0.00 |
| 3.10 | 2.00 | 0.00 | 8.45 | 0.02 | 0.00 | 3.12 | 2.00 | 0.00 | 8.44 | 0.02 | 0.00 |
| 3.14 | 2.00 | 0.00 | 8.43 | 0.02 | 0.00 | 3.16 | 2.00 | 0.00 | 8.42 | 0.02 | 0.00 |
| 3.18 | 2.00 | 0.00 | 8.41 | 0.02 | 0.00 | 3.20 | 2.00 | 0.00 | 8.40 | 0.02 | 0.00 |
| 3.22 | 2.00 | 0.00 | 8.39 | 0.02 | 0.00 | 3.24 | 2.00 | 0.00 | 8.38 | 0.02 | 0.00 |
| 3.26 | 2.00 | 0.00 | 8.37 | 0.02 | 0.00 | 3.28 | 2.00 | 0.00 | 8.36 | 0.02 | 0.00 |
| 3.30 | 2.00 | 0.00 | 8.35 | 0.02 | 0.00 | 3.32 | 0.99 | 0.01 | 8.34 | 0.02 | 0.00 |
| 3.34 | 0.95 | 0.05 | 8.33 | 0.02 | 0.01 | 3.36 | 0.92 | 0.08 | 8.32 | 0.02 | 0.01 |
| 3.38 | 0.89 | 0.11 | 8.31 | 0.02 | 0.02 | 3.40 | 2.00 | 0.00 | 8.30 | 0.02 | 0.00 |
| 3.42 | 2.00 | 0.00 | 8.29 | 0.02 | 0.00 | 3.44 | 2.00 | 0.00 | 8.28 | 0.02 | 0.00 |
| 3.46 | 2.00 | 0.00 | 8.27 | 0.02 | 0.00 | 3.48 | 2.00 | 0.00 | 8.26 | 0.02 | 0.00 |
| 3.50 | 2.00 | 0.00 | 8.25 | 0.02 | 0.00 | 3.52 | 2.00 | 0.00 | 8.24 | 0.02 | 0.00 |
| 3.54 | 2.00 | 0.00 | 8.23 | 0.02 | 0.00 | 3.56 | 2.00 | 0.00 | 8.22 | 0.02 | 0.00 |
| 3.58 | 2.00 | 0.00 | 8.21 | 0.02 | 0.00 | 3.60 | 2.00 | 0.00 | 8.20 | 0.02 | 0.00 |
| 3.62 | 2.00 | 0.00 | 8.19 | 0.02 | 0.00 | 3.64 | 2.00 | 0.00 | 8.18 | 0.02 | 0.00 |
| 3.66 | 2.00 | 0.00 | 8.17 | 0.02 | 0.00 | 3.68 | 2.00 | 0.00 | 8.16 | 0.02 | 0.00 |
| 3.70 | 2.00 | 0.00 | 8.15 | 0.02 | 0.00 | 3.72 | 2.00 | 0.00 | 8.14 | 0.02 | 0.00 |
| 3.74 | 2.00 | 0.00 | 8.13 | 0.02 | 0.00 | 3.76 | 2.00 | 0.00 | 8.12 | 0.02 | 0.00 |
| 3.78 | 2.00 | 0.00 | 8.11 | 0.02 | 0.00 | 3.80 | 2.00 | 0.00 | 8.10 | 0.02 | 0.00 |
| 3.82 | 2.00 | 0.00 | 8.09 | 0.02 | 0.00 | 3.84 | 2.00 | 0.00 | 8.08 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 3.86 | 2.00 | 0.00 | 8.07 | 0.02 | 0.00 | 3.88 | 2.00 | 0.00 | 8.06 | 0.02 | 0.00 |
| 3.90 | 2.00 | 0.00 | 8.05 | 0.02 | 0.00 | 3.92 | 2.00 | 0.00 | 8.04 | 0.02 | 0.00 |
| 3.94 | 2.00 | 0.00 | 8.03 | 0.02 | 0.00 | 3.96 | 2.00 | 0.00 | 8.02 | 0.02 | 0.00 |
| 3.98 | 2.00 | 0.00 | 8.01 | 0.02 | 0.00 | 4.00 | 2.00 | 0.00 | 8.00 | 0.02 | 0.00 |
| 4.02 | 2.00 | 0.00 | 7.99 | 0.02 | 0.00 | 4.04 | 2.00 | 0.00 | 7.98 | 0.02 | 0.00 |
| 4.06 | 2.00 | 0.00 | 7.97 | 0.02 | 0.00 | 4.08 | 2.00 | 0.00 | 7.96 | 0.02 | 0.00 |
| 4.10 | 2.00 | 0.00 | 7.95 | 0.02 | 0.00 | 4.12 | 2.00 | 0.00 | 7.94 | 0.02 | 0.00 |
| 4.14 | 2.00 | 0.00 | 7.93 | 0.02 | 0.00 | 4.16 | 2.00 | 0.00 | 7.92 | 0.02 | 0.00 |
| 4.18 | 2.00 | 0.00 | 7.91 | 0.02 | 0.00 | 4.20 | 2.00 | 0.00 | 7.90 | 0.02 | 0.00 |
| 4.22 | 2.00 | 0.00 | 7.89 | 0.02 | 0.00 | 4.24 | 2.00 | 0.00 | 7.88 | 0.02 | 0.00 |
| 4.26 | 2.00 | 0.00 | 7.87 | 0.02 | 0.00 | 4.28 | 2.00 | 0.00 | 7.86 | 0.02 | 0.00 |
| 4.30 | 2.00 | 0.00 | 7.85 | 0.02 | 0.00 | 4.32 | 2.00 | 0.00 | 7.84 | 0.02 | 0.00 |
| 4.34 | 2.00 | 0.00 | 7.83 | 0.02 | 0.00 | 4.36 | 2.00 | 0.00 | 7.82 | 0.02 | 0.00 |
| 4.38 | 2.00 | 0.00 | 7.81 | 0.02 | 0.00 | 4.40 | 2.00 | 0.00 | 7.80 | 0.02 | 0.00 |
| 4.42 | 2.00 | 0.00 | 7.79 | 0.02 | 0.00 | 4.44 | 2.00 | 0.00 | 7.78 | 0.02 | 0.00 |
| 4.46 | 2.00 | 0.00 | 7.77 | 0.02 | 0.00 | 4.48 | 2.00 | 0.00 | 7.76 | 0.02 | 0.00 |
| 4.50 | 2.00 | 0.00 | 7.75 | 0.02 | 0.00 | 4.52 | 2.00 | 0.00 | 7.74 | 0.02 | 0.00 |
| 4.54 | 2.00 | 0.00 | 7.73 | 0.02 | 0.00 | 4.56 | 2.00 | 0.00 | 7.72 | 0.02 | 0.00 |
| 4.58 | 2.00 | 0.00 | 7.71 | 0.02 | 0.00 | 4.60 | 2.00 | 0.00 | 7.70 | 0.02 | 0.00 |
| 4.62 | 2.00 | 0.00 | 7.69 | 0.02 | 0.00 | 4.64 | 2.00 | 0.00 | 7.68 | 0.02 | 0.00 |
| 4.66 | 2.00 | 0.00 | 7.67 | 0.02 | 0.00 | 4.68 | 2.00 | 0.00 | 7.66 | 0.02 | 0.00 |
| 4.70 | 2.00 | 0.00 | 7.65 | 0.02 | 0.00 | 4.72 | 2.00 | 0.00 | 7.64 | 0.02 | 0.00 |
| 4.74 | 2.00 | 0.00 | 7.63 | 0.02 | 0.00 | 4.76 | 2.00 | 0.00 | 7.62 | 0.02 | 0.00 |
| 4.78 | 2.00 | 0.00 | 7.61 | 0.02 | 0.00 | 4.80 | 2.00 | 0.00 | 7.60 | 0.02 | 0.00 |
| 4.82 | 2.00 | 0.00 | 7.59 | 0.02 | 0.00 | 4.84 | 2.00 | 0.00 | 7.58 | 0.02 | 0.00 |
| 4.86 | 2.00 | 0.00 | 7.57 | 0.02 | 0.00 | 4.88 | 2.00 | 0.00 | 7.56 | 0.02 | 0.00 |
| 4.90 | 2.00 | 0.00 | 7.55 | 0.02 | 0.00 | 4.92 | 2.00 | 0.00 | 7.54 | 0.02 | 0.00 |
| 4.94 | 2.00 | 0.00 | 7.53 | 0.02 | 0.00 | 4.96 | 2.00 | 0.00 | 7.52 | 0.02 | 0.00 |
| 4.98 | 2.00 | 0.00 | 7.51 | 0.02 | 0.00 | 5.00 | 2.00 | 0.00 | 7.50 | 0.02 | 0.00 |
| 5.02 | 2.00 | 0.00 | 7.49 | 0.02 | 0.00 | 5.04 | 2.00 | 0.00 | 7.48 | 0.02 | 0.00 |
| 5.06 | 2.00 | 0.00 | 7.47 | 0.02 | 0.00 | 5.08 | 2.00 | 0.00 | 7.46 | 0.02 | 0.00 |
| 5.10 | 2.00 | 0.00 | 7.45 | 0.02 | 0.00 | 5.12 | 2.00 | 0.00 | 7.44 | 0.02 | 0.00 |
| 5.14 | 2.00 | 0.00 | 7.43 | 0.02 | 0.00 | 5.16 | 2.00 | 0.00 | 7.42 | 0.02 | 0.00 |
| 5.18 | 2.00 | 0.00 | 7.41 | 0.02 | 0.00 | 5.20 | 2.00 | 0.00 | 7.40 | 0.02 | 0.00 |
| 5.22 | 2.00 | 0.00 | 7.39 | 0.02 | 0.00 | 5.24 | 2.00 | 0.00 | 7.38 | 0.02 | 0.00 |
| 5.26 | 2.00 | 0.00 | 7.37 | 0.02 | 0.00 | 5.28 | 2.00 | 0.00 | 7.36 | 0.02 | 0.00 |
| 5.30 | 2.00 | 0.00 | 7.35 | 0.02 | 0.00 | 5.32 | 2.00 | 0.00 | 7.34 | 0.02 | 0.00 |
| 5.34 | 2.00 | 0.00 | 7.33 | 0.02 | 0.00 | 5.36 | 2.00 | 0.00 | 7.32 | 0.02 | 0.00 |
| 5.38 | 2.00 | 0.00 | 7.31 | 0.02 | 0.00 | 5.40 | 2.00 | 0.00 | 7.30 | 0.02 | 0.00 |
| 5.42 | 2.00 | 0.00 | 7.29 | 0.02 | 0.00 | 5.44 | 2.00 | 0.00 | 7.28 | 0.02 | 0.00 |
| 5.46 | 2.00 | 0.00 | 7.27 | 0.02 | 0.00 | 5.48 | 2.00 | 0.00 | 7.26 | 0.02 | 0.00 |
| 5.50 | 2.00 | 0.00 | 7.25 | 0.02 | 0.00 | 5.52 | 2.00 | 0.00 | 7.24 | 0.02 | 0.00 |
| 5.54 | 2.00 | 0.00 | 7.23 | 0.02 | 0.00 | 5.56 | 2.00 | 0.00 | 7.22 | 0.02 | 0.00 |
| 5.58 | 2.00 | 0.00 | 7.21 | 0.02 | 0.00 | 5.60 | 2.00 | 0.00 | 7.20 | 0.02 | 0.00 |
| 5.62 | 2.00 | 0.00 | 7.19 | 0.02 | 0.00 | 5.64 | 2.00 | 0.00 | 7.18 | 0.02 | 0.00 |
| 5.66 | 2.00 | 0.00 | 7.17 | 0.02 | 0.00 | 5.68 | 2.00 | 0.00 | 7.16 | 0.02 | 0.00 |
| 5.70 | 2.00 | 0.00 | 7.15 | 0.02 | 0.00 | 5.72 | 2.00 | 0.00 | 7.14 | 0.02 | 0.00 |
| 5.74 | 2.00 | 0.00 | 7.13 | 0.02 | 0.00 | 5.76 | 2.00 | 0.00 | 7.12 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 5.78 | 2.00 | 0.00 | 7.11 | 0.02 | 0.00 | 5.80 | 2.00 | 0.00 | 7.10 | 0.02 | 0.00 |
| 5.82 | 2.00 | 0.00 | 7.09 | 0.02 | 0.00 | 5.84 | 2.00 | 0.00 | 7.08 | 0.02 | 0.00 |
| 5.86 | 2.00 | 0.00 | 7.07 | 0.02 | 0.00 | 5.88 | 2.00 | 0.00 | 7.06 | 0.02 | 0.00 |
| 5.90 | 2.00 | 0.00 | 7.05 | 0.02 | 0.00 | 5.92 | 2.00 | 0.00 | 7.04 | 0.02 | 0.00 |
| 5.94 | 2.00 | 0.00 | 7.03 | 0.02 | 0.00 | 5.96 | 2.00 | 0.00 | 7.02 | 0.02 | 0.00 |
| 5.98 | 2.00 | 0.00 | 7.01 | 0.02 | 0.00 | 6.00 | 2.00 | 0.00 | 7.00 | 0.02 | 0.00 |
| 6.02 | 2.00 | 0.00 | 6.99 | 0.02 | 0.00 | 6.04 | 2.00 | 0.00 | 6.98 | 0.02 | 0.00 |
| 6.06 | 2.00 | 0.00 | 6.97 | 0.02 | 0.00 | 6.08 | 2.00 | 0.00 | 6.96 | 0.02 | 0.00 |
| 6.10 | 2.00 | 0.00 | 6.95 | 0.02 | 0.00 | 6.12 | 2.00 | 0.00 | 6.94 | 0.02 | 0.00 |
| 6.14 | 2.00 | 0.00 | 6.93 | 0.02 | 0.00 | 6.16 | 2.00 | 0.00 | 6.92 | 0.02 | 0.00 |
| 6.18 | 2.00 | 0.00 | 6.91 | 0.02 | 0.00 | 6.20 | 2.00 | 0.00 | 6.90 | 0.02 | 0.00 |
| 6.22 | 2.00 | 0.00 | 6.89 | 0.02 | 0.00 | 6.24 | 2.00 | 0.00 | 6.88 | 0.02 | 0.00 |
| 6.26 | 2.00 | 0.00 | 6.87 | 0.02 | 0.00 | 6.28 | 2.00 | 0.00 | 6.86 | 0.02 | 0.00 |
| 6.30 | 2.00 | 0.00 | 6.85 | 0.02 | 0.00 | 6.32 | 2.00 | 0.00 | 6.84 | 0.02 | 0.00 |
| 6.34 | 2.00 | 0.00 | 6.83 | 0.02 | 0.00 | 6.36 | 2.00 | 0.00 | 6.82 | 0.02 | 0.00 |
| 6.38 | 2.00 | 0.00 | 6.81 | 0.02 | 0.00 | 6.40 | 2.00 | 0.00 | 6.80 | 0.02 | 0.00 |
| 6.42 | 2.00 | 0.00 | 6.79 | 0.02 | 0.00 | 6.44 | 2.00 | 0.00 | 6.78 | 0.02 | 0.00 |
| 6.46 | 2.00 | 0.00 | 6.77 | 0.02 | 0.00 | 6.48 | 2.00 | 0.00 | 6.76 | 0.02 | 0.00 |
| 6.50 | 2.00 | 0.00 | 6.75 | 0.02 | 0.00 | 6.52 | 2.00 | 0.00 | 6.74 | 0.02 | 0.00 |
| 6.54 | 2.00 | 0.00 | 6.73 | 0.02 | 0.00 | 6.56 | 2.00 | 0.00 | 6.72 | 0.02 | 0.00 |
| 6.58 | 2.00 | 0.00 | 6.71 | 0.02 | 0.00 | 6.60 | 2.00 | 0.00 | 6.70 | 0.02 | 0.00 |
| 6.62 | 2.00 | 0.00 | 6.69 | 0.02 | 0.00 | 6.64 | 2.00 | 0.00 | 6.68 | 0.02 | 0.00 |
| 6.66 | 2.00 | 0.00 | 6.67 | 0.02 | 0.00 | 6.68 | 2.00 | 0.00 | 6.66 | 0.02 | 0.00 |
| 6.70 | 2.00 | 0.00 | 6.65 | 0.02 | 0.00 | 6.72 | 2.00 | 0.00 | 6.64 | 0.02 | 0.00 |
| 6.74 | 2.00 | 0.00 | 6.63 | 0.02 | 0.00 | 6.76 | 2.00 | 0.00 | 6.62 | 0.02 | 0.00 |
| 6.78 | 2.00 | 0.00 | 6.61 | 0.02 | 0.00 | 6.80 | 2.00 | 0.00 | 6.60 | 0.02 | 0.00 |
| 6.82 | 2.00 | 0.00 | 6.59 | 0.02 | 0.00 | 6.84 | 2.00 | 0.00 | 6.58 | 0.02 | 0.00 |
| 6.86 | 2.00 | 0.00 | 6.57 | 0.02 | 0.00 | 6.88 | 2.00 | 0.00 | 6.56 | 0.02 | 0.00 |
| 6.90 | 2.00 | 0.00 | 6.55 | 0.02 | 0.00 | 6.92 | 2.00 | 0.00 | 6.54 | 0.02 | 0.00 |
| 6.94 | 2.00 | 0.00 | 6.53 | 0.02 | 0.00 | 6.96 | 2.00 | 0.00 | 6.52 | 0.02 | 0.00 |
| 6.98 | 2.00 | 0.00 | 6.51 | 0.02 | 0.00 | 7.00 | 2.00 | 0.00 | 6.50 | 0.02 | 0.00 |
| 7.02 | 2.00 | 0.00 | 6.49 | 0.02 | 0.00 | 7.04 | 2.00 | 0.00 | 6.48 | 0.02 | 0.00 |
| 7.06 | 2.00 | 0.00 | 6.47 | 0.02 | 0.00 | 7.08 | 2.00 | 0.00 | 6.46 | 0.02 | 0.00 |
| 7.10 | 2.00 | 0.00 | 6.45 | 0.02 | 0.00 | 7.12 | 2.00 | 0.00 | 6.44 | 0.02 | 0.00 |
| 7.14 | 2.00 | 0.00 | 6.43 | 0.02 | 0.00 | 7.16 | 2.00 | 0.00 | 6.42 | 0.02 | 0.00 |
| 7.18 | 2.00 | 0.00 | 6.41 | 0.02 | 0.00 | 7.20 | 2.00 | 0.00 | 6.40 | 0.02 | 0.00 |
| 7.22 | 2.00 | 0.00 | 6.39 | 0.02 | 0.00 | 7.24 | 2.00 | 0.00 | 6.38 | 0.02 | 0.00 |
| 7.26 | 2.00 | 0.00 | 6.37 | 0.02 | 0.00 | 7.28 | 2.00 | 0.00 | 6.36 | 0.02 | 0.00 |
| 7.30 | 2.00 | 0.00 | 6.35 | 0.02 | 0.00 | 7.32 | 2.00 | 0.00 | 6.34 | 0.02 | 0.00 |
| 7.34 | 2.00 | 0.00 | 6.33 | 0.02 | 0.00 | 7.36 | 2.00 | 0.00 | 6.32 | 0.02 | 0.00 |
| 7.38 | 2.00 | 0.00 | 6.31 | 0.02 | 0.00 | 7.40 | 2.00 | 0.00 | 6.30 | 0.02 | 0.00 |
| 7.42 | 2.00 | 0.00 | 6.29 | 0.02 | 0.00 | 7.44 | 2.00 | 0.00 | 6.28 | 0.02 | 0.00 |
| 7.46 | 2.00 | 0.00 | 6.27 | 0.02 | 0.00 | 7.48 | 2.00 | 0.00 | 6.26 | 0.02 | 0.00 |
| 7.50 | 2.00 | 0.00 | 6.25 | 0.02 | 0.00 | 7.52 | 2.00 | 0.00 | 6.24 | 0.02 | 0.00 |
| 7.54 | 2.00 | 0.00 | 6.23 | 0.02 | 0.00 | 7.56 | 2.00 | 0.00 | 6.22 | 0.02 | 0.00 |
| 7.58 | 2.00 | 0.00 | 6.21 | 0.02 | 0.00 | 7.60 | 2.00 | 0.00 | 6.20 | 0.02 | 0.00 |
| 7.62 | 2.00 | 0.00 | 6.19 | 0.02 | 0.00 | 7.64 | 2.00 | 0.00 | 6.18 | 0.02 | 0.00 |
| 7.66 | 2.00 | 0.00 | 6.17 | 0.02 | 0.00 | 7.68 | 2.00 | 0.00 | 6.16 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 7.70 | 2.00 | 0.00 | 6.15 | 0.02 | 0.00 | 7.72 | 2.00 | 0.00 | 6.14 | 0.02 | 0.00 |
| 7.74 | 2.00 | 0.00 | 6.13 | 0.02 | 0.00 | 7.76 | 2.00 | 0.00 | 6.12 | 0.02 | 0.00 |
| 7.78 | 2.00 | 0.00 | 6.11 | 0.02 | 0.00 | 7.80 | 2.00 | 0.00 | 6.10 | 0.02 | 0.00 |
| 7.82 | 2.00 | 0.00 | 6.09 | 0.02 | 0.00 | 7.84 | 2.00 | 0.00 | 6.08 | 0.02 | 0.00 |
| 7.86 | 2.00 | 0.00 | 6.07 | 0.02 | 0.00 | 7.88 | 2.00 | 0.00 | 6.06 | 0.02 | 0.00 |
| 7.90 | 2.00 | 0.00 | 6.05 | 0.02 | 0.00 | 7.92 | 2.00 | 0.00 | 6.04 | 0.02 | 0.00 |
| 7.94 | 2.00 | 0.00 | 6.03 | 0.02 | 0.00 | 7.96 | 2.00 | 0.00 | 6.02 | 0.02 | 0.00 |
| 7.98 | 2.00 | 0.00 | 6.01 | 0.02 | 0.00 | 8.00 | 2.00 | 0.00 | 6.00 | 0.02 | 0.00 |
| 8.02 | 2.00 | 0.00 | 5.99 | 0.02 | 0.00 | 8.04 | 2.00 | 0.00 | 5.98 | 0.02 | 0.00 |
| 8.06 | 2.00 | 0.00 | 5.97 | 0.02 | 0.00 | 8.08 | 2.00 | 0.00 | 5.96 | 0.02 | 0.00 |
| 8.10 | 2.00 | 0.00 | 5.95 | 0.02 | 0.00 | 8.12 | 2.00 | 0.00 | 5.94 | 0.02 | 0.00 |
| 8.14 | 2.00 | 0.00 | 5.93 | 0.02 | 0.00 | 8.16 | 2.00 | 0.00 | 5.92 | 0.02 | 0.00 |
| 8.18 | 2.00 | 0.00 | 5.91 | 0.02 | 0.00 | 8.20 | 2.00 | 0.00 | 5.90 | 0.02 | 0.00 |
| 8.22 | 2.00 | 0.00 | 5.89 | 0.02 | 0.00 | 8.24 | 2.00 | 0.00 | 5.88 | 0.02 | 0.00 |
| 8.26 | 2.00 | 0.00 | 5.87 | 0.02 | 0.00 | 8.28 | 2.00 | 0.00 | 5.86 | 0.02 | 0.00 |
| 8.30 | 2.00 | 0.00 | 5.85 | 0.02 | 0.00 | 8.32 | 2.00 | 0.00 | 5.84 | 0.02 | 0.00 |
| 8.34 | 2.00 | 0.00 | 5.83 | 0.02 | 0.00 | 8.36 | 2.00 | 0.00 | 5.82 | 0.02 | 0.00 |
| 8.38 | 2.00 | 0.00 | 5.81 | 0.02 | 0.00 | 8.40 | 2.00 | 0.00 | 5.80 | 0.02 | 0.00 |
| 8.42 | 2.00 | 0.00 | 5.79 | 0.02 | 0.00 | 8.44 | 2.00 | 0.00 | 5.78 | 0.02 | 0.00 |
| 8.46 | 2.00 | 0.00 | 5.77 | 0.02 | 0.00 | 8.48 | 2.00 | 0.00 | 5.76 | 0.02 | 0.00 |
| 8.50 | 2.00 | 0.00 | 5.75 | 0.02 | 0.00 | 8.52 | 2.00 | 0.00 | 5.74 | 0.02 | 0.00 |
| 8.54 | 2.00 | 0.00 | 5.73 | 0.02 | 0.00 | 8.56 | 2.00 | 0.00 | 5.72 | 0.02 | 0.00 |
| 8.58 | 2.00 | 0.00 | 5.71 | 0.02 | 0.00 | 8.60 | 2.00 | 0.00 | 5.70 | 0.02 | 0.00 |
| 8.62 | 2.00 | 0.00 | 5.69 | 0.02 | 0.00 | 8.64 | 2.00 | 0.00 | 5.68 | 0.02 | 0.00 |
| 8.66 | 2.00 | 0.00 | 5.67 | 0.02 | 0.00 | 8.68 | 2.00 | 0.00 | 5.66 | 0.02 | 0.00 |
| 8.70 | 2.00 | 0.00 | 5.65 | 0.02 | 0.00 | 8.72 | 2.00 | 0.00 | 5.64 | 0.02 | 0.00 |
| 8.74 | 2.00 | 0.00 | 5.63 | 0.02 | 0.00 | 8.76 | 2.00 | 0.00 | 5.62 | 0.02 | 0.00 |
| 8.78 | 2.00 | 0.00 | 5.61 | 0.02 | 0.00 | 8.80 | 2.00 | 0.00 | 5.60 | 0.02 | 0.00 |
| 8.82 | 2.00 | 0.00 | 5.59 | 0.02 | 0.00 | 8.84 | 2.00 | 0.00 | 5.58 | 0.02 | 0.00 |
| 8.86 | 2.00 | 0.00 | 5.57 | 0.02 | 0.00 | 8.88 | 2.00 | 0.00 | 5.56 | 0.02 | 0.00 |
| 8.90 | 2.00 | 0.00 | 5.55 | 0.02 | 0.00 | 8.92 | 2.00 | 0.00 | 5.54 | 0.02 | 0.00 |
| 8.94 | 2.00 | 0.00 | 5.53 | 0.02 | 0.00 | 8.96 | 2.00 | 0.00 | 5.52 | 0.02 | 0.00 |
| 8.98 | 2.00 | 0.00 | 5.51 | 0.02 | 0.00 | 9.00 | 2.00 | 0.00 | 5.50 | 0.02 | 0.00 |
| 9.02 | 2.00 | 0.00 | 5.49 | 0.02 | 0.00 | 9.04 | 2.00 | 0.00 | 5.48 | 0.02 | 0.00 |
| 9.06 | 2.00 | 0.00 | 5.47 | 0.02 | 0.00 | 9.08 | 2.00 | 0.00 | 5.46 | 0.02 | 0.00 |
| 9.10 | 2.00 | 0.00 | 5.45 | 0.02 | 0.00 | 9.12 | 2.00 | 0.00 | 5.44 | 0.02 | 0.00 |
| 9.14 | 2.00 | 0.00 | 5.43 | 0.02 | 0.00 | 9.16 | 2.00 | 0.00 | 5.42 | 0.02 | 0.00 |
| 9.18 | 2.00 | 0.00 | 5.41 | 0.02 | 0.00 | 9.20 | 2.00 | 0.00 | 5.40 | 0.02 | 0.00 |
| 9.22 | 2.00 | 0.00 | 5.39 | 0.02 | 0.00 | 9.24 | 2.00 | 0.00 | 5.38 | 0.02 | 0.00 |
| 9.26 | 2.00 | 0.00 | 5.37 | 0.02 | 0.00 | 9.28 | 2.00 | 0.00 | 5.36 | 0.02 | 0.00 |
| 9.30 | 2.00 | 0.00 | 5.35 | 0.02 | 0.00 | 9.32 | 2.00 | 0.00 | 5.34 | 0.02 | 0.00 |
| 9.34 | 2.00 | 0.00 | 5.33 | 0.02 | 0.00 | 9.36 | 2.00 | 0.00 | 5.32 | 0.02 | 0.00 |
| 9.38 | 2.00 | 0.00 | 5.31 | 0.02 | 0.00 | 9.40 | 2.00 | 0.00 | 5.30 | 0.02 | 0.00 |
| 9.42 | 2.00 | 0.00 | 5.29 | 0.02 | 0.00 | 9.44 | 2.00 | 0.00 | 5.28 | 0.02 | 0.00 |
| 9.46 | 2.00 | 0.00 | 5.27 | 0.02 | 0.00 | 9.48 | 2.00 | 0.00 | 5.26 | 0.02 | 0.00 |
| 9.50 | 2.00 | 0.00 | 5.25 | 0.02 | 0.00 | 9.52 | 2.00 | 0.00 | 5.24 | 0.02 | 0.00 |
| 9.54 | 2.00 | 0.00 | 5.23 | 0.02 | 0.00 | 9.56 | 2.00 | 0.00 | 5.22 | 0.02 | 0.00 |
| 9.58 | 2.00 | 0.00 | 5.21 | 0.02 | 0.00 | 9.60 | 2.00 | 0.00 | 5.20 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 9.62 | 2.00 | 0.00 | 5.19 | 0.02 | 0.00 | 9.64 | 2.00 | 0.00 | 5.18 | 0.02 | 0.00 |
| 9.66 | 2.00 | 0.00 | 5.17 | 0.02 | 0.00 | 9.68 | 2.00 | 0.00 | 5.16 | 0.02 | 0.00 |
| 9.70 | 2.00 | 0.00 | 5.15 | 0.02 | 0.00 | 9.72 | 2.00 | 0.00 | 5.14 | 0.02 | 0.00 |
| 9.74 | 2.00 | 0.00 | 5.13 | 0.02 | 0.00 | 9.76 | 2.00 | 0.00 | 5.12 | 0.02 | 0.00 |
| 9.78 | 2.00 | 0.00 | 5.11 | 0.02 | 0.00 | 9.80 | 2.00 | 0.00 | 5.10 | 0.02 | 0.00 |
| 9.82 | 2.00 | 0.00 | 5.09 | 0.02 | 0.00 | 9.84 | 2.00 | 0.00 | 5.08 | 0.02 | 0.00 |
| 9.86 | 2.00 | 0.00 | 5.07 | 0.02 | 0.00 | 9.88 | 2.00 | 0.00 | 5.06 | 0.02 | 0.00 |
| 9.90 | 2.00 | 0.00 | 5.05 | 0.02 | 0.00 | 9.92 | 2.00 | 0.00 | 5.04 | 0.02 | 0.00 |
| 9.94 | 2.00 | 0.00 | 5.03 | 0.02 | 0.00 | 9.96 | 2.00 | 0.00 | 5.02 | 0.02 | 0.00 |
| 9.98 | 2.00 | 0.00 | 5.01 | 0.02 | 0.00 | 10.00 | 2.00 | 0.00 | 5.00 | 0.02 | 0.00 |
| 10.02 | 2.00 | 0.00 | 4.99 | 0.02 | 0.00 | 10.04 | 2.00 | 0.00 | 4.98 | 0.02 | 0.00 |
| 10.06 | 2.00 | 0.00 | 4.97 | 0.02 | 0.00 | 10.08 | 2.00 | 0.00 | 4.96 | 0.02 | 0.00 |
| 10.10 | 2.00 | 0.00 | 4.95 | 0.02 | 0.00 | 10.12 | 2.00 | 0.00 | 4.94 | 0.02 | 0.00 |
| 10.14 | 2.00 | 0.00 | 4.93 | 0.02 | 0.00 | 10.16 | 2.00 | 0.00 | 4.92 | 0.02 | 0.00 |
| 10.18 | 2.00 | 0.00 | 4.91 | 0.02 | 0.00 | 10.20 | 2.00 | 0.00 | 4.90 | 0.02 | 0.00 |
| 10.22 | 2.00 | 0.00 | 4.89 | 0.02 | 0.00 | 10.24 | 2.00 | 0.00 | 4.88 | 0.02 | 0.00 |
| 10.26 | 2.00 | 0.00 | 4.87 | 0.02 | 0.00 | 10.28 | 2.00 | 0.00 | 4.86 | 0.02 | 0.00 |
| 10.30 | 2.00 | 0.00 | 4.85 | 0.02 | 0.00 | 10.32 | 2.00 | 0.00 | 4.84 | 0.02 | 0.00 |
| 10.34 | 2.00 | 0.00 | 4.83 | 0.02 | 0.00 | 10.36 | 2.00 | 0.00 | 4.82 | 0.02 | 0.00 |
| 10.38 | 2.00 | 0.00 | 4.81 | 0.02 | 0.00 | 10.40 | 0.82 | 0.18 | 4.80 | 0.02 | 0.02 |
| 10.42 | 2.00 | 0.00 | 4.79 | 0.02 | 0.00 | 10.44 | 2.00 | 0.00 | 4.78 | 0.02 | 0.00 |
| 10.46 | 2.00 | 0.00 | 4.77 | 0.02 | 0.00 | 10.48 | 2.00 | 0.00 | 4.76 | 0.02 | 0.00 |
| 10.50 | 2.00 | 0.00 | 4.75 | 0.02 | 0.00 | 10.52 | 2.00 | 0.00 | 4.74 | 0.02 | 0.00 |
| 10.54 | 2.00 | 0.00 | 4.73 | 0.02 | 0.00 | 10.56 | 2.00 | 0.00 | 4.72 | 0.02 | 0.00 |
| 10.58 | 2.00 | 0.00 | 4.71 | 0.02 | 0.00 | 10.60 | 2.00 | 0.00 | 4.70 | 0.02 | 0.00 |
| 10.62 | 2.00 | 0.00 | 4.69 | 0.02 | 0.00 | 10.64 | 2.00 | 0.00 | 4.68 | 0.02 | 0.00 |
| 10.66 | 0.79 | 0.21 | 4.67 | 0.02 | 0.02 | 10.68 | 0.78 | 0.22 | 4.66 | 0.02 | 0.02 |
| 10.70 | 0.81 | 0.19 | 4.65 | 0.02 | 0.02 | 10.72 | 0.87 | 0.13 | 4.64 | 0.02 | 0.01 |
| 10.74 | 0.92 | 0.08 | 4.63 | 0.02 | 0.01 | 10.76 | 2.00 | 0.00 | 4.62 | 0.02 | 0.00 |
| 10.78 | 2.00 | 0.00 | 4.61 | 0.02 | 0.00 | 10.80 | 2.00 | 0.00 | 4.60 | 0.02 | 0.00 |
| 10.82 | 2.00 | 0.00 | 4.59 | 0.02 | 0.00 | 10.84 | 2.00 | 0.00 | 4.58 | 0.02 | 0.00 |
| 10.86 | 2.00 | 0.00 | 4.57 | 0.02 | 0.00 | 10.88 | 2.00 | 0.00 | 4.56 | 0.02 | 0.00 |
| 10.90 | 2.00 | 0.00 | 4.55 | 0.02 | 0.00 | 10.92 | 2.00 | 0.00 | 4.54 | 0.02 | 0.00 |
| 10.94 | 2.00 | 0.00 | 4.53 | 0.02 | 0.00 | 10.96 | 2.00 | 0.00 | 4.52 | 0.02 | 0.00 |
| 10.98 | 2.00 | 0.00 | 4.51 | 0.02 | 0.00 | 11.00 | 0.90 | 0.10 | 4.50 | 0.02 | 0.01 |
| 11.02 | 0.94 | 0.06 | 4.49 | 0.02 | 0.01 | 11.04 | 0.98 | 0.02 | 4.48 | 0.02 | 0.00 |
| 11.06 | 1.05 | 0.00 | 4.47 | 0.02 | 0.00 | 11.08 | 1.13 | 0.00 | 4.46 | 0.02 | 0.00 |
| 11.10 | 2.00 | 0.00 | 4.45 | 0.02 | 0.00 | 11.12 | 1.22 | 0.00 | 4.44 | 0.02 | 0.00 |
| 11.14 | 1.26 | 0.00 | 4.43 | 0.02 | 0.00 | 11.16 | 1.35 | 0.00 | 4.42 | 0.02 | 0.00 |
| 11.18 | 2.00 | 0.00 | 4.41 | 0.02 | 0.00 | 11.20 | 2.00 | 0.00 | 4.40 | 0.02 | 0.00 |
| 11.22 | 2.00 | 0.00 | 4.39 | 0.02 | 0.00 | 11.24 | 2.00 | 0.00 | 4.38 | 0.02 | 0.00 |
| 11.26 | 2.00 | 0.00 | 4.37 | 0.02 | 0.00 | 11.28 | 2.00 | 0.00 | 4.36 | 0.02 | 0.00 |
| 11.30 | 1.13 | 0.00 | 4.35 | 0.02 | 0.00 | 11.32 | 1.04 | 0.00 | 4.34 | 0.02 | 0.00 |
| 11.34 | 0.98 | 0.02 | 4.33 | 0.02 | 0.00 | 11.36 | 0.92 | 0.08 | 4.32 | 0.02 | 0.01 |
| 11.38 | 0.89 | 0.11 | 4.31 | 0.02 | 0.01 | 11.40 | 0.90 | 0.10 | 4.30 | 0.02 | 0.01 |
| 11.42 | 0.97 | 0.03 | 4.29 | 0.02 | 0.00 | 11.44 | 1.04 | 0.00 | 4.28 | 0.02 | 0.00 |
| 11.46 | 0.95 | 0.05 | 4.27 | 0.02 | 0.00 | 11.48 | 1.11 | 0.00 | 4.26 | 0.02 | 0.00 |
| 11.50 | 1.14 | 0.00 | 4.25 | 0.02 | 0.00 | 11.52 | 1.16 | 0.00 | 4.24 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 11.54 | 1.17 | 0.00 | 4.23 | 0.02 | 0.00 | 11.56 | 1.15 | 0.00 | 4.22 | 0.02 | 0.00 |
| 11.58 | 1.13 | 0.00 | 4.21 | 0.02 | 0.00 | 11.60 | 1.09 | 0.00 | 4.20 | 0.02 | 0.00 |
| 11.62 | 1.05 | 0.00 | 4.19 | 0.02 | 0.00 | 11.64 | 1.01 | 0.00 | 4.18 | 0.02 | 0.00 |
| 11.66 | 1.03 | 0.00 | 4.17 | 0.02 | 0.00 | 11.68 | 1.08 | 0.00 | 4.16 | 0.02 | 0.00 |
| 11.70 | 1.13 | 0.00 | 4.15 | 0.02 | 0.00 | 11.72 | 1.14 | 0.00 | 4.14 | 0.02 | 0.00 |
| 11.74 | 2.00 | 0.00 | 4.13 | 0.02 | 0.00 | 11.76 | 2.00 | 0.00 | 4.12 | 0.02 | 0.00 |
| 11.78 | 2.00 | 0.00 | 4.11 | 0.02 | 0.00 | 11.80 | 2.00 | 0.00 | 4.10 | 0.02 | 0.00 |
| 11.82 | 2.00 | 0.00 | 4.09 | 0.02 | 0.00 | 11.84 | 2.00 | 0.00 | 4.08 | 0.02 | 0.00 |
| 11.86 | 2.00 | 0.00 | 4.07 | 0.02 | 0.00 | 11.88 | 2.00 | 0.00 | 4.06 | 0.02 | 0.00 |
| 11.90 | 2.00 | 0.00 | 4.05 | 0.02 | 0.00 | 11.92 | 2.00 | 0.00 | 4.04 | 0.02 | 0.00 |
| 11.94 | 2.00 | 0.00 | 4.03 | 0.02 | 0.00 | 11.96 | 2.00 | 0.00 | 4.02 | 0.02 | 0.00 |
| 11.98 | 2.00 | 0.00 | 4.01 | 0.02 | 0.00 | 12.00 | 2.00 | 0.00 | 4.00 | 0.02 | 0.00 |
| 12.02 | 2.00 | 0.00 | 3.99 | 0.02 | 0.00 | 12.04 | 2.00 | 0.00 | 3.98 | 0.02 | 0.00 |
| 12.06 | 2.00 | 0.00 | 3.97 | 0.02 | 0.00 | 12.08 | 2.00 | 0.00 | 3.96 | 0.02 | 0.00 |
| 12.10 | 2.00 | 0.00 | 3.95 | 0.02 | 0.00 | 12.12 | 0.89 | 0.11 | 3.94 | 0.02 | 0.01 |
| 12.14 | 1.23 | 0.00 | 3.93 | 0.02 | 0.00 | 12.16 | 1.96 | 0.00 | 3.92 | 0.02 | 0.00 |
| 12.18 | 2.00 | 0.00 | 3.91 | 0.02 | 0.00 | 12.20 | 2.00 | 0.00 | 3.90 | 0.02 | 0.00 |
| 12.22 | 2.00 | 0.00 | 3.89 | 0.02 | 0.00 | 12.24 | 2.00 | 0.00 | 3.88 | 0.02 | 0.00 |
| 12.26 | 2.00 | 0.00 | 3.87 | 0.02 | 0.00 | 12.28 | 2.00 | 0.00 | 3.86 | 0.02 | 0.00 |
| 12.30 | 1.95 | 0.00 | 3.85 | 0.02 | 0.00 | 12.32 | 1.72 | 0.00 | 3.84 | 0.02 | 0.00 |
| 12.34 | 1.63 | 0.00 | 3.83 | 0.02 | 0.00 | 12.36 | 1.63 | 0.00 | 3.82 | 0.02 | 0.00 |
| 12.38 | 1.63 | 0.00 | 3.81 | 0.02 | 0.00 | 12.40 | 1.62 | 0.00 | 3.80 | 0.02 | 0.00 |
| 12.42 | 1.58 | 0.00 | 3.79 | 0.02 | 0.00 | 12.44 | 2.00 | 0.00 | 3.78 | 0.02 | 0.00 |
| 12.46 | 2.00 | 0.00 | 3.77 | 0.02 | 0.00 | 12.48 | 2.00 | 0.00 | 3.76 | 0.02 | 0.00 |
| 12.50 | 2.00 | 0.00 | 3.75 | 0.02 | 0.00 | 12.52 | 2.00 | 0.00 | 3.74 | 0.02 | 0.00 |
| 12.54 | 2.00 | 0.00 | 3.73 | 0.02 | 0.00 | 12.56 | 2.00 | 0.00 | 3.72 | 0.02 | 0.00 |
| 12.58 | 2.00 | 0.00 | 3.71 | 0.02 | 0.00 | 12.60 | 2.00 | 0.00 | 3.70 | 0.02 | 0.00 |
| 12.62 | 2.00 | 0.00 | 3.69 | 0.02 | 0.00 | 12.64 | 2.00 | 0.00 | 3.68 | 0.02 | 0.00 |
| 12.66 | 2.00 | 0.00 | 3.67 | 0.02 | 0.00 | 12.68 | 2.00 | 0.00 | 3.66 | 0.02 | 0.00 |
| 12.70 | 2.00 | 0.00 | 3.65 | 0.02 | 0.00 | 12.72 | 2.00 | 0.00 | 3.64 | 0.02 | 0.00 |
| 12.74 | 2.00 | 0.00 | 3.63 | 0.02 | 0.00 | 12.76 | 2.00 | 0.00 | 3.62 | 0.02 | 0.00 |
| 12.78 | 0.93 | 0.07 | 3.61 | 0.02 | 0.00 | 12.80 | 0.96 | 0.04 | 3.60 | 0.02 | 0.00 |
| 12.82 | 2.00 | 0.00 | 3.59 | 0.02 | 0.00 | 12.84 | 2.00 | 0.00 | 3.58 | 0.02 | 0.00 |
| 12.86 | 2.00 | 0.00 | 3.57 | 0.02 | 0.00 | 12.88 | 2.00 | 0.00 | 3.56 | 0.02 | 0.00 |
| 12.90 | 2.00 | 0.00 | 3.55 | 0.02 | 0.00 | 12.92 | 2.00 | 0.00 | 3.54 | 0.02 | 0.00 |
| 12.94 | 2.00 | 0.00 | 3.53 | 0.02 | 0.00 | 12.96 | 2.00 | 0.00 | 3.52 | 0.02 | 0.00 |
| 12.98 | 0.88 | 0.12 | 3.51 | 0.02 | 0.01 | 13.00 | 0.90 | 0.10 | 3.50 | 0.02 | 0.01 |
| 13.02 | 2.00 | 0.00 | 3.49 | 0.02 | 0.00 | 13.04 | 2.00 | 0.00 | 3.48 | 0.02 | 0.00 |
| 13.06 | 2.00 | 0.00 | 3.47 | 0.02 | 0.00 | 13.08 | 2.00 | 0.00 | 3.46 | 0.02 | 0.00 |
| 13.10 | 2.00 | 0.00 | 3.45 | 0.02 | 0.00 | 13.12 | 2.00 | 0.00 | 3.44 | 0.02 | 0.00 |
| 13.14 | 2.00 | 0.00 | 3.43 | 0.02 | 0.00 | 13.16 | 2.00 | 0.00 | 3.42 | 0.02 | 0.00 |
| 13.18 | 2.00 | 0.00 | 3.41 | 0.02 | 0.00 | 13.20 | 2.00 | 0.00 | 3.40 | 0.02 | 0.00 |
| 13.22 | 2.00 | 0.00 | 3.39 | 0.02 | 0.00 | 13.24 | 2.00 | 0.00 | 3.38 | 0.02 | 0.00 |
| 13.26 | 2.00 | 0.00 | 3.37 | 0.02 | 0.00 | 13.28 | 2.00 | 0.00 | 3.36 | 0.02 | 0.00 |
| 13.30 | 2.00 | 0.00 | 3.35 | 0.02 | 0.00 | 13.32 | 2.00 | 0.00 | 3.34 | 0.02 | 0.00 |
| 13.34 | 2.00 | 0.00 | 3.33 | 0.02 | 0.00 | 13.36 | 2.00 | 0.00 | 3.32 | 0.02 | 0.00 |
| 13.38 | 2.00 | 0.00 | 3.31 | 0.02 | 0.00 | 13.40 | 2.00 | 0.00 | 3.30 | 0.02 | 0.00 |
| 13.42 | 2.00 | 0.00 | 3.29 | 0.02 | 0.00 | 13.44 | 2.00 | 0.00 | 3.28 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 13.46 | 2.00 | 0.00 | 3.27 | 0.02 | 0.00 | 13.48 | 2.00 | 0.00 | 3.26 | 0.02 | 0.00 |
| 13.50 | 2.00 | 0.00 | 3.25 | 0.02 | 0.00 | 13.52 | 2.00 | 0.00 | 3.24 | 0.02 | 0.00 |
| 13.54 | 2.00 | 0.00 | 3.23 | 0.02 | 0.00 | 13.56 | 2.00 | 0.00 | 3.22 | 0.02 | 0.00 |
| 13.58 | 2.00 | 0.00 | 3.21 | 0.02 | 0.00 | 13.60 | 2.00 | 0.00 | 3.20 | 0.02 | 0.00 |
| 13.62 | 2.00 | 0.00 | 3.19 | 0.02 | 0.00 | 13.64 | 2.00 | 0.00 | 3.18 | 0.02 | 0.00 |
| 13.66 | 2.00 | 0.00 | 3.17 | 0.02 | 0.00 | 13.68 | 2.00 | 0.00 | 3.16 | 0.02 | 0.00 |
| 13.70 | 2.00 | 0.00 | 3.15 | 0.02 | 0.00 | 13.72 | 2.00 | 0.00 | 3.14 | 0.02 | 0.00 |
| 13.74 | 2.00 | 0.00 | 3.13 | 0.02 | 0.00 | 13.76 | 2.00 | 0.00 | 3.12 | 0.02 | 0.00 |
| 13.78 | 2.00 | 0.00 | 3.11 | 0.02 | 0.00 | 13.80 | 2.00 | 0.00 | 3.10 | 0.02 | 0.00 |
| 13.82 | 0.82 | 0.18 | 3.09 | 0.02 | 0.01 | 13.84 | 0.97 | 0.03 | 3.08 | 0.02 | 0.00 |
| 13.86 | 1.35 | 0.00 | 3.07 | 0.02 | 0.00 | 13.88 | 1.65 | 0.00 | 3.06 | 0.02 | 0.00 |
| 13.90 | 1.70 | 0.00 | 3.05 | 0.02 | 0.00 | 13.92 | 1.65 | 0.00 | 3.04 | 0.02 | 0.00 |
| 13.94 | 1.52 | 0.00 | 3.03 | 0.02 | 0.00 | 13.96 | 1.49 | 0.00 | 3.02 | 0.02 | 0.00 |
| 13.98 | 1.48 | 0.00 | 3.01 | 0.02 | 0.00 | 14.00 | 1.43 | 0.00 | 3.00 | 0.02 | 0.00 |
| 14.02 | 1.39 | 0.00 | 2.99 | 0.02 | 0.00 | 14.04 | 1.38 | 0.00 | 2.98 | 0.02 | 0.00 |
| 14.06 | 1.39 | 0.00 | 2.97 | 0.02 | 0.00 | 14.08 | 1.48 | 0.00 | 2.96 | 0.02 | 0.00 |
| 14.10 | 1.66 | 0.00 | 2.95 | 0.02 | 0.00 | 14.12 | 1.85 | 0.00 | 2.94 | 0.02 | 0.00 |
| 14.14 | 1.97 | 0.00 | 2.93 | 0.02 | 0.00 | 14.16 | 2.00 | 0.00 | 2.92 | 0.02 | 0.00 |
| 14.18 | 1.92 | 0.00 | 2.91 | 0.02 | 0.00 | 14.20 | 1.73 | 0.00 | 2.90 | 0.02 | 0.00 |
| 14.22 | 1.53 | 0.00 | 2.89 | 0.02 | 0.00 | 14.24 | 1.44 | 0.00 | 2.88 | 0.02 | 0.00 |
| 14.26 | 1.36 | 0.00 | 2.87 | 0.02 | 0.00 | 14.28 | 1.68 | 0.00 | 2.86 | 0.02 | 0.00 |
| 14.30 | 2.00 | 0.00 | 2.85 | 0.02 | 0.00 | 14.32 | 2.00 | 0.00 | 2.84 | 0.02 | 0.00 |
| 14.34 | 2.00 | 0.00 | 2.83 | 0.02 | 0.00 | 14.36 | 2.00 | 0.00 | 2.82 | 0.02 | 0.00 |
| 14.38 | 1.97 | 0.00 | 2.81 | 0.02 | 0.00 | 14.40 | 1.99 | 0.00 | 2.80 | 0.02 | 0.00 |
| 14.42 | 1.98 | 0.00 | 2.79 | 0.02 | 0.00 | 14.44 | 2.00 | 0.00 | 2.78 | 0.02 | 0.00 |
| 14.46 | 2.00 | 0.00 | 2.77 | 0.02 | 0.00 | 14.48 | 2.00 | 0.00 | 2.76 | 0.02 | 0.00 |
| 14.50 | 2.00 | 0.00 | 2.75 | 0.02 | 0.00 | 14.52 | 2.00 | 0.00 | 2.74 | 0.02 | 0.00 |
| 14.54 | 0.98 | 0.02 | 2.73 | 0.02 | 0.00 | 14.56 | 1.07 | 0.00 | 2.72 | 0.02 | 0.00 |
| 14.58 | 1.17 | 0.00 | 2.71 | 0.02 | 0.00 | 14.60 | 1.17 | 0.00 | 2.70 | 0.02 | 0.00 |
| 14.62 | 1.07 | 0.00 | 2.69 | 0.02 | 0.00 | 14.64 | 0.94 | 0.06 | 2.68 | 0.02 | 0.00 |
| 14.66 | 0.89 | 0.11 | 2.67 | 0.02 | 0.01 | 14.68 | 0.98 | 0.02 | 2.66 | 0.02 | 0.00 |
| 14.70 | 1.11 | 0.00 | 2.65 | 0.02 | 0.00 | 14.72 | 1.40 | 0.00 | 2.64 | 0.02 | 0.00 |
| 14.74 | 1.45 | 0.00 | 2.63 | 0.02 | 0.00 | 14.76 | 1.54 | 0.00 | 2.62 | 0.02 | 0.00 |
| 14.78 | 1.46 | 0.00 | 2.61 | 0.02 | 0.00 | 14.80 | 1.38 | 0.00 | 2.60 | 0.02 | 0.00 |
| 14.82 | 1.31 | 0.00 | 2.59 | 0.02 | 0.00 | 14.84 | 1.27 | 0.00 | 2.58 | 0.02 | 0.00 |
| 14.86 | 1.27 | 0.00 | 2.57 | 0.02 | 0.00 | 14.88 | 1.29 | 0.00 | 2.56 | 0.02 | 0.00 |
| 14.90 | 1.30 | 0.00 | 2.55 | 0.02 | 0.00 | 14.92 | 1.14 | 0.00 | 2.54 | 0.02 | 0.00 |
| 14.94 | 1.13 | 0.00 | 2.53 | 0.02 | 0.00 | 14.96 | 1.12 | 0.00 | 2.52 | 0.02 | 0.00 |
| 14.98 | 1.30 | 0.00 | 2.51 | 0.02 | 0.00 | 15.00 | 1.31 | 0.00 | 2.50 | 0.02 | 0.00 |
| 15.02 | 1.28 | 0.00 | 2.49 | 0.02 | 0.00 | 15.04 | 1.25 | 0.00 | 2.48 | 0.02 | 0.00 |
| 15.06 | 1.27 | 0.00 | 2.47 | 0.02 | 0.00 | 15.08 | 1.34 | 0.00 | 2.46 | 0.02 | 0.00 |
| 15.10 | 1.29 | 0.00 | 2.45 | 0.02 | 0.00 | 15.12 | 1.40 | 0.00 | 2.44 | 0.02 | 0.00 |
| 15.14 | 1.47 | 0.00 | 2.43 | 0.02 | 0.00 | 15.16 | 1.49 | 0.00 | 2.42 | 0.02 | 0.00 |
| 15.18 | 1.66 | 0.00 | 2.41 | 0.02 | 0.00 | 15.20 | 1.66 | 0.00 | 2.40 | 0.02 | 0.00 |
| 15.22 | 1.64 | 0.00 | 2.39 | 0.02 | 0.00 | 15.24 | 1.61 | 0.00 | 2.38 | 0.02 | 0.00 |
| 15.26 | 1.58 | 0.00 | 2.37 | 0.02 | 0.00 | 15.28 | 1.55 | 0.00 | 2.36 | 0.02 | 0.00 |
| 15.30 | 1.51 | 0.00 | 2.35 | 0.02 | 0.00 | 15.32 | 1.46 | 0.00 | 2.34 | 0.02 | 0.00 |
| 15.34 | 1.41 | 0.00 | 2.33 | 0.02 | 0.00 | 15.36 | 1.35 | 0.00 | 2.32 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 15.38 | 1.30 | 0.00 | 2.31 | 0.02 | 0.00 | 15.40 | 1.25 | 0.00 | 2.30 | 0.02 | 0.00 |
| 15.42 | 1.23 | 0.00 | 2.29 | 0.02 | 0.00 | 15.44 | 1.21 | 0.00 | 2.28 | 0.02 | 0.00 |
| 15.46 | 1.20 | 0.00 | 2.27 | 0.02 | 0.00 | 15.48 | 1.19 | 0.00 | 2.26 | 0.02 | 0.00 |
| 15.50 | 1.17 | 0.00 | 2.25 | 0.02 | 0.00 | 15.52 | 1.16 | 0.00 | 2.24 | 0.02 | 0.00 |
| 15.54 | 1.15 | 0.00 | 2.23 | 0.02 | 0.00 | 15.56 | 1.15 | 0.00 | 2.22 | 0.02 | 0.00 |
| 15.58 | 1.15 | 0.00 | 2.21 | 0.02 | 0.00 | 15.60 | 1.15 | 0.00 | 2.20 | 0.02 | 0.00 |
| 15.62 | 1.15 | 0.00 | 2.19 | 0.02 | 0.00 | 15.64 | 1.15 | 0.00 | 2.18 | 0.02 | 0.00 |
| 15.66 | 1.15 | 0.00 | 2.17 | 0.02 | 0.00 | 15.68 | 1.17 | 0.00 | 2.16 | 0.02 | 0.00 |
| 15.70 | 1.19 | 0.00 | 2.15 | 0.02 | 0.00 | 15.72 | 1.21 | 0.00 | 2.14 | 0.02 | 0.00 |
| 15.74 | 1.24 | 0.00 | 2.13 | 0.02 | 0.00 | 15.76 | 1.25 | 0.00 | 2.12 | 0.02 | 0.00 |
| 15.78 | 1.24 | 0.00 | 2.11 | 0.02 | 0.00 | 15.80 | 1.21 | 0.00 | 2.10 | 0.02 | 0.00 |
| 15.82 | 1.17 | 0.00 | 2.09 | 0.02 | 0.00 | 15.84 | 1.15 | 0.00 | 2.08 | 0.02 | 0.00 |
| 15.86 | 1.15 | 0.00 | 2.07 | 0.02 | 0.00 | 15.88 | 1.19 | 0.00 | 2.06 | 0.02 | 0.00 |
| 15.90 | 1.23 | 0.00 | 2.05 | 0.02 | 0.00 | 15.92 | 1.27 | 0.00 | 2.04 | 0.02 | 0.00 |
| 15.94 | 1.29 | 0.00 | 2.03 | 0.02 | 0.00 | 15.96 | 1.31 | 0.00 | 2.02 | 0.02 | 0.00 |
| 15.98 | 1.34 | 0.00 | 2.01 | 0.02 | 0.00 | 16.00 | 1.37 | 0.00 | 2.00 | 0.02 | 0.00 |
| 16.02 | 1.37 | 0.00 | 1.99 | 0.02 | 0.00 | 16.04 | 1.35 | 0.00 | 1.98 | 0.02 | 0.00 |
| 16.06 | 1.32 | 0.00 | 1.97 | 0.02 | 0.00 | 16.08 | 1.34 | 0.00 | 1.96 | 0.02 | 0.00 |
| 16.10 | 1.42 | 0.00 | 1.95 | 0.02 | 0.00 | 16.12 | 1.35 | 0.00 | 1.94 | 0.02 | 0.00 |
| 16.14 | 1.46 | 0.00 | 1.93 | 0.02 | 0.00 | 16.16 | 1.49 | 0.00 | 1.92 | 0.02 | 0.00 |
| 16.18 | 1.60 | 0.00 | 1.91 | 0.02 | 0.00 | 16.20 | 1.50 | 0.00 | 1.90 | 0.02 | 0.00 |
| 16.22 | 1.39 | 0.00 | 1.89 | 0.02 | 0.00 | 16.24 | 1.29 | 0.00 | 1.88 | 0.02 | 0.00 |
| 16.26 | 1.24 | 0.00 | 1.87 | 0.02 | 0.00 | 16.28 | 1.22 | 0.00 | 1.86 | 0.02 | 0.00 |
| 16.30 | 1.25 | 0.00 | 1.85 | 0.02 | 0.00 | 16.32 | 1.30 | 0.00 | 1.84 | 0.02 | 0.00 |
| 16.34 | 1.32 | 0.00 | 1.83 | 0.02 | 0.00 | 16.36 | 1.30 | 0.00 | 1.82 | 0.02 | 0.00 |
| 16.38 | 1.25 | 0.00 | 1.81 | 0.02 | 0.00 | 16.40 | 1.23 | 0.00 | 1.80 | 0.02 | 0.00 |
| 16.42 | 1.20 | 0.00 | 1.79 | 0.02 | 0.00 | 16.44 | 1.18 | 0.00 | 1.78 | 0.02 | 0.00 |
| 16.46 | 1.19 | 0.00 | 1.77 | 0.02 | 0.00 | 16.48 | 1.20 | 0.00 | 1.76 | 0.02 | 0.00 |
| 16.50 | 1.22 | 0.00 | 1.75 | 0.02 | 0.00 | 16.52 | 1.22 | 0.00 | 1.74 | 0.02 | 0.00 |
| 16.54 | 1.24 | 0.00 | 1.73 | 0.02 | 0.00 | 16.56 | 1.29 | 0.00 | 1.72 | 0.02 | 0.00 |
| 16.58 | 1.37 | 0.00 | 1.71 | 0.02 | 0.00 | 16.60 | 1.46 | 0.00 | 1.70 | 0.02 | 0.00 |
| 16.62 | 1.53 | 0.00 | 1.69 | 0.02 | 0.00 | 16.64 | 1.62 | 0.00 | 1.68 | 0.02 | 0.00 |
| 16.66 | 1.75 | 0.00 | 1.67 | 0.02 | 0.00 | 16.68 | 1.87 | 0.00 | 1.66 | 0.02 | 0.00 |
| 16.70 | 1.83 | 0.00 | 1.65 | 0.02 | 0.00 | 16.72 | 1.73 | 0.00 | 1.64 | 0.02 | 0.00 |
| 16.74 | 1.55 | 0.00 | 1.63 | 0.02 | 0.00 | 16.76 | 1.42 | 0.00 | 1.62 | 0.02 | 0.00 |
| 16.78 | 1.31 | 0.00 | 1.61 | 0.02 | 0.00 | 16.80 | 1.27 | 0.00 | 1.60 | 0.02 | 0.00 |
| 16.82 | 1.28 | 0.00 | 1.59 | 0.02 | 0.00 | 16.84 | 1.32 | 0.00 | 1.58 | 0.02 | 0.00 |
| 16.86 | 1.37 | 0.00 | 1.57 | 0.02 | 0.00 | 16.88 | 1.41 | 0.00 | 1.56 | 0.02 | 0.00 |
| 16.90 | 1.41 | 0.00 | 1.55 | 0.02 | 0.00 | 16.92 | 1.38 | 0.00 | 1.54 | 0.02 | 0.00 |
| 16.94 | 1.32 | 0.00 | 1.53 | 0.02 | 0.00 | 16.96 | 1.29 | 0.00 | 1.52 | 0.02 | 0.00 |
| 16.98 | 1.28 | 0.00 | 1.51 | 0.02 | 0.00 | 17.00 | 1.27 | 0.00 | 1.50 | 0.02 | 0.00 |
| 17.02 | 1.29 | 0.00 | 1.49 | 0.02 | 0.00 | 17.04 | 1.31 | 0.00 | 1.48 | 0.02 | 0.00 |
| 17.06 | 1.35 | 0.00 | 1.47 | 0.02 | 0.00 | 17.08 | 1.42 | 0.00 | 1.46 | 0.02 | 0.00 |
| 17.10 | 1.45 | 0.00 | 1.45 | 0.02 | 0.00 | 17.12 | 2.00 | 0.00 | 1.44 | 0.02 | 0.00 |
| 17.14 | 2.00 | 0.00 | 1.43 | 0.02 | 0.00 | 17.16 | 2.00 | 0.00 | 1.42 | 0.02 | 0.00 |
| 17.18 | 1.45 | 0.00 | 1.41 | 0.02 | 0.00 | 17.20 | 1.44 | 0.00 | 1.40 | 0.02 | 0.00 |
| 17.22 | 1.42 | 0.00 | 1.39 | 0.02 | 0.00 | 17.24 | 2.00 | 0.00 | 1.38 | 0.02 | 0.00 |
| 17.26 | 2.00 | 0.00 | 1.37 | 0.02 | 0.00 | 17.28 | 1.30 | 0.00 | 1.36 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 17.30 | 1.25 | 0.00 | 1.35 | 0.02 | 0.00 | 17.32 | 1.23 | 0.00 | 1.34 | 0.02 | 0.00 |
| 17.34 | 1.22 | 0.00 | 1.33 | 0.02 | 0.00 | 17.36 | 1.19 | 0.00 | 1.32 | 0.02 | 0.00 |
| 17.38 | 1.19 | 0.00 | 1.31 | 0.02 | 0.00 | 17.40 | 1.20 | 0.00 | 1.30 | 0.02 | 0.00 |
| 17.42 | 1.21 | 0.00 | 1.29 | 0.02 | 0.00 | 17.44 | 1.21 | 0.00 | 1.28 | 0.02 | 0.00 |
| 17.46 | 1.20 | 0.00 | 1.27 | 0.02 | 0.00 | 17.48 | 1.23 | 0.00 | 1.26 | 0.02 | 0.00 |
| 17.50 | 1.28 | 0.00 | 1.25 | 0.02 | 0.00 | 17.52 | 2.00 | 0.00 | 1.24 | 0.02 | 0.00 |
| 17.54 | 2.00 | 0.00 | 1.23 | 0.02 | 0.00 | 17.56 | 2.00 | 0.00 | 1.22 | 0.02 | 0.00 |
| 17.58 | 2.00 | 0.00 | 1.21 | 0.02 | 0.00 | 17.60 | 2.00 | 0.00 | 1.20 | 0.02 | 0.00 |
| 17.62 | 2.00 | 0.00 | 1.19 | 0.02 | 0.00 | 17.64 | 2.00 | 0.00 | 1.18 | 0.02 | 0.00 |
| 17.66 | 2.00 | 0.00 | 1.17 | 0.02 | 0.00 | 17.68 | 1.29 | 0.00 | 1.16 | 0.02 | 0.00 |
| 17.70 | 1.25 | 0.00 | 1.15 | 0.02 | 0.00 | 17.72 | 1.21 | 0.00 | 1.14 | 0.02 | 0.00 |
| 17.74 | 1.14 | 0.00 | 1.13 | 0.02 | 0.00 | 17.76 | 1.10 | 0.00 | 1.12 | 0.02 | 0.00 |
| 17.78 | 1.10 | 0.00 | 1.11 | 0.02 | 0.00 | 17.80 | 1.15 | 0.00 | 1.10 | 0.02 | 0.00 |
| 17.82 | 1.21 | 0.00 | 1.09 | 0.02 | 0.00 | 17.84 | 2.00 | 0.00 | 1.08 | 0.02 | 0.00 |
| 17.86 | 2.00 | 0.00 | 1.07 | 0.02 | 0.00 | 17.88 | 2.00 | 0.00 | 1.06 | 0.02 | 0.00 |
| 17.90 | 2.00 | 0.00 | 1.05 | 0.02 | 0.00 | 17.92 | 2.00 | 0.00 | 1.04 | 0.02 | 0.00 |
| 17.94 | 2.00 | 0.00 | 1.03 | 0.02 | 0.00 | 17.96 | 2.00 | 0.00 | 1.02 | 0.02 | 0.00 |
| 17.98 | 2.00 | 0.00 | 1.01 | 0.02 | 0.00 | 18.00 | 2.00 | 0.00 | 1.00 | 0.02 | 0.00 |
| 18.02 | 2.00 | 0.00 | 0.99 | 0.02 | 0.00 | 18.04 | 2.00 | 0.00 | 0.98 | 0.02 | 0.00 |
| 18.06 | 2.00 | 0.00 | 0.97 | 0.02 | 0.00 | 18.08 | 2.00 | 0.00 | 0.96 | 0.02 | 0.00 |
| 18.10 | 2.00 | 0.00 | 0.95 | 0.02 | 0.00 | 18.12 | 2.00 | 0.00 | 0.94 | 0.02 | 0.00 |
| 18.14 | 2.00 | 0.00 | 0.93 | 0.02 | 0.00 | 18.16 | 2.00 | 0.00 | 0.92 | 0.02 | 0.00 |
| 18.18 | 2.00 | 0.00 | 0.91 | 0.02 | 0.00 | 18.20 | 2.00 | 0.00 | 0.90 | 0.02 | 0.00 |
| 18.22 | 2.00 | 0.00 | 0.89 | 0.02 | 0.00 | 18.24 | 2.00 | 0.00 | 0.88 | 0.02 | 0.00 |
| 18.26 | 2.00 | 0.00 | 0.87 | 0.02 | 0.00 | 18.28 | 2.00 | 0.00 | 0.86 | 0.02 | 0.00 |
| 18.30 | 2.00 | 0.00 | 0.85 | 0.02 | 0.00 | 18.32 | 2.00 | 0.00 | 0.84 | 0.02 | 0.00 |
| 18.34 | 2.00 | 0.00 | 0.83 | 0.02 | 0.00 | 18.36 | 2.00 | 0.00 | 0.82 | 0.02 | 0.00 |
| 18.38 | 2.00 | 0.00 | 0.81 | 0.02 | 0.00 | 18.40 | 2.00 | 0.00 | 0.80 | 0.02 | 0.00 |
| 18.42 | 2.00 | 0.00 | 0.79 | 0.02 | 0.00 | 18.44 | 2.00 | 0.00 | 0.78 | 0.02 | 0.00 |
| 18.46 | 2.00 | 0.00 | 0.77 | 0.02 | 0.00 | 18.48 | 2.00 | 0.00 | 0.76 | 0.02 | 0.00 |
| 18.50 | 2.00 | 0.00 | 0.75 | 0.02 | 0.00 | 18.52 | 2.00 | 0.00 | 0.74 | 0.02 | 0.00 |
| 18.54 | 2.00 | 0.00 | 0.73 | 0.02 | 0.00 | 18.56 | 2.00 | 0.00 | 0.72 | 0.02 | 0.00 |
| 18.58 | 2.00 | 0.00 | 0.71 | 0.02 | 0.00 | 18.60 | 2.00 | 0.00 | 0.70 | 0.02 | 0.00 |
| 18.62 | 2.00 | 0.00 | 0.69 | 0.02 | 0.00 | 18.64 | 2.00 | 0.00 | 0.68 | 0.02 | 0.00 |
| 18.66 | 2.00 | 0.00 | 0.67 | 0.02 | 0.00 | 18.68 | 2.00 | 0.00 | 0.66 | 0.02 | 0.00 |
| 18.70 | 2.00 | 0.00 | 0.65 | 0.02 | 0.00 | 18.72 | 2.00 | 0.00 | 0.64 | 0.02 | 0.00 |
| 18.74 | 2.00 | 0.00 | 0.63 | 0.02 | 0.00 | 18.76 | 2.00 | 0.00 | 0.62 | 0.02 | 0.00 |
| 18.78 | 2.00 | 0.00 | 0.61 | 0.02 | 0.00 | 18.80 | 2.00 | 0.00 | 0.60 | 0.02 | 0.00 |
| 18.82 | 2.00 | 0.00 | 0.59 | 0.02 | 0.00 | 18.84 | 2.00 | 0.00 | 0.58 | 0.02 | 0.00 |
| 18.86 | 2.00 | 0.00 | 0.57 | 0.02 | 0.00 | 18.88 | 2.00 | 0.00 | 0.56 | 0.02 | 0.00 |
| 18.90 | 2.00 | 0.00 | 0.55 | 0.02 | 0.00 | 18.92 | 2.00 | 0.00 | 0.54 | 0.02 | 0.00 |
| 18.94 | 2.00 | 0.00 | 0.53 | 0.02 | 0.00 | 18.96 | 2.00 | 0.00 | 0.52 | 0.02 | 0.00 |
| 18.98 | 2.00 | 0.00 | 0.51 | 0.02 | 0.00 | 19.00 | 2.00 | 0.00 | 0.50 | 0.02 | 0.00 |
| 19.02 | 2.00 | 0.00 | 0.49 | 0.02 | 0.00 | 19.04 | 2.00 | 0.00 | 0.48 | 0.02 | 0.00 |
| 19.06 | 2.00 | 0.00 | 0.47 | 0.02 | 0.00 | 19.08 | 2.00 | 0.00 | 0.46 | 0.02 | 0.00 |
| 19.10 | 2.00 | 0.00 | 0.45 | 0.02 | 0.00 | 19.12 | 2.00 | 0.00 | 0.44 | 0.02 | 0.00 |
| 19.14 | 2.00 | 0.00 | 0.43 | 0.02 | 0.00 | 19.16 | 2.00 | 0.00 | 0.42 | 0.02 | 0.00 |
| 19.18 | 2.00 | 0.00 | 0.41 | 0.02 | 0.00 | 19.20 | 2.00 | 0.00 | 0.40 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 19.22 | 2.00 | 0.00 | 0.39 | 0.02 | 0.00 | 19.24 | 2.00 | 0.00 | 0.38 | 0.02 | 0.00 |
| 19.26 | 2.00 | 0.00 | 0.37 | 0.02 | 0.00 | 19.28 | 2.00 | 0.00 | 0.36 | 0.02 | 0.00 |
| 19.30 | 2.00 | 0.00 | 0.35 | 0.02 | 0.00 | 19.32 | 2.00 | 0.00 | 0.34 | 0.02 | 0.00 |
| 19.34 | 2.00 | 0.00 | 0.33 | 0.02 | 0.00 | 19.36 | 2.00 | 0.00 | 0.32 | 0.02 | 0.00 |
| 19.38 | 2.00 | 0.00 | 0.31 | 0.02 | 0.00 | 19.40 | 2.00 | 0.00 | 0.30 | 0.02 | 0.00 |
| 19.42 | 2.00 | 0.00 | 0.29 | 0.02 | 0.00 | 19.44 | 2.00 | 0.00 | 0.28 | 0.02 | 0.00 |
| 19.46 | 2.00 | 0.00 | 0.27 | 0.02 | 0.00 | 19.48 | 2.00 | 0.00 | 0.26 | 0.02 | 0.00 |
| 19.50 | 2.00 | 0.00 | 0.25 | 0.02 | 0.00 | 19.52 | 2.00 | 0.00 | 0.24 | 0.02 | 0.00 |
| 19.54 | 2.00 | 0.00 | 0.23 | 0.02 | 0.00 | 19.56 | 2.00 | 0.00 | 0.22 | 0.02 | 0.00 |
| 19.58 | 2.00 | 0.00 | 0.21 | 0.02 | 0.00 | 19.60 | 1.30 | 0.00 | 0.20 | 0.02 | 0.00 |
| 19.62 | 1.44 | 0.00 | 0.19 | 0.02 | 0.00 | 19.64 | 2.00 | 0.00 | 0.18 | 0.02 | 0.00 |
| 19.66 | 2.00 | 0.00 | 0.17 | 0.02 | 0.00 | 19.68 | 2.00 | 0.00 | 0.16 | 0.02 | 0.00 |
| 19.70 | 2.00 | 0.00 | 0.15 | 0.02 | 0.00 | 19.72 | 2.00 | 0.00 | 0.14 | 0.02 | 0.00 |
| 19.74 | 2.00 | 0.00 | 0.13 | 0.02 | 0.00 | 19.76 | 2.00 | 0.00 | 0.12 | 0.02 | 0.00 |
| 19.78 | 2.00 | 0.00 | 0.11 | 0.02 | 0.00 | 19.80 | 2.00 | 0.00 | 0.10 | 0.02 | 0.00 |
| 19.82 | 2.00 | 0.00 | 0.09 | 0.02 | 0.00 | 19.84 | 2.00 | 0.00 | 0.08 | 0.02 | 0.00 |
| 19.86 | 2.00 | 0.00 | 0.07 | 0.02 | 0.00 | 19.88 | 2.00 | 0.00 | 0.06 | 0.02 | 0.00 |
| 19.90 | 2.00 | 0.00 | 0.05 | 0.02 | 0.00 | | | | | | |

Overall liquefaction potential: 0.24

LPI = 0.00 - Liquefaction risk very low
 LPI between 0.00 and 5.00 - Liquefaction risk low
 LPI between 5.00 and 15.00 - Liquefaction risk high
 LPI > 15.00 - Liquefaction risk very high

Abbreviations

FS: Calculated factor of safety for test point
 F_L: 1 - FS
 w_z: Function value of the extend of soil liquefaction according to depth
 d_z: Layer thickness (m)
 LPI: Liquefaction potential index value for test point

LIQUEFACTION ANALYSIS REPORT

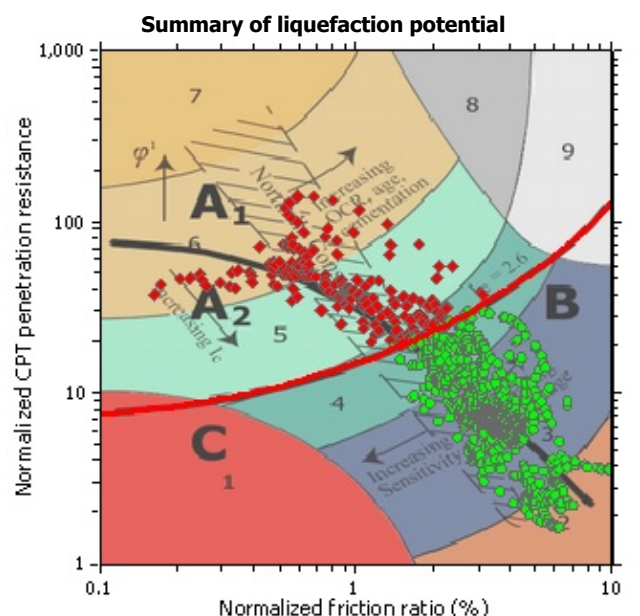
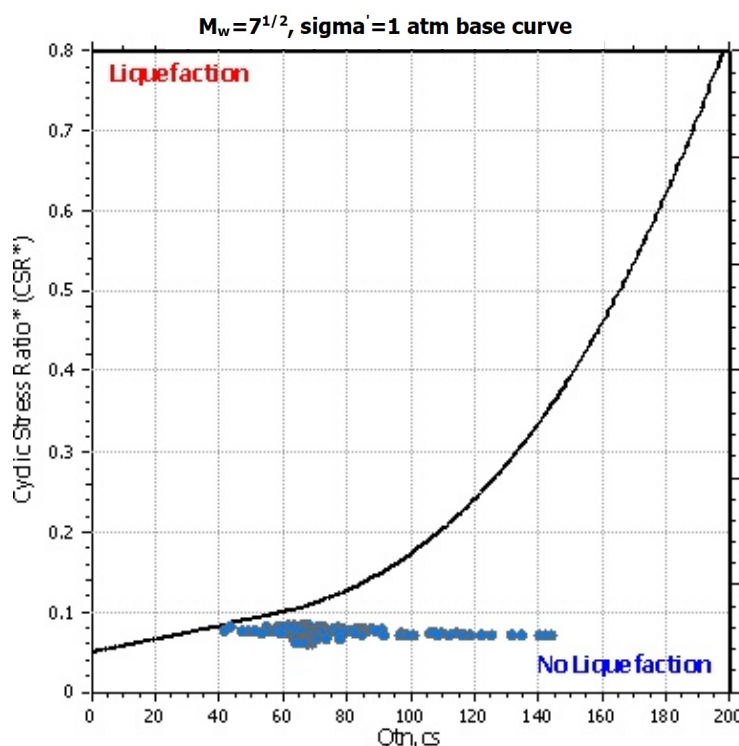
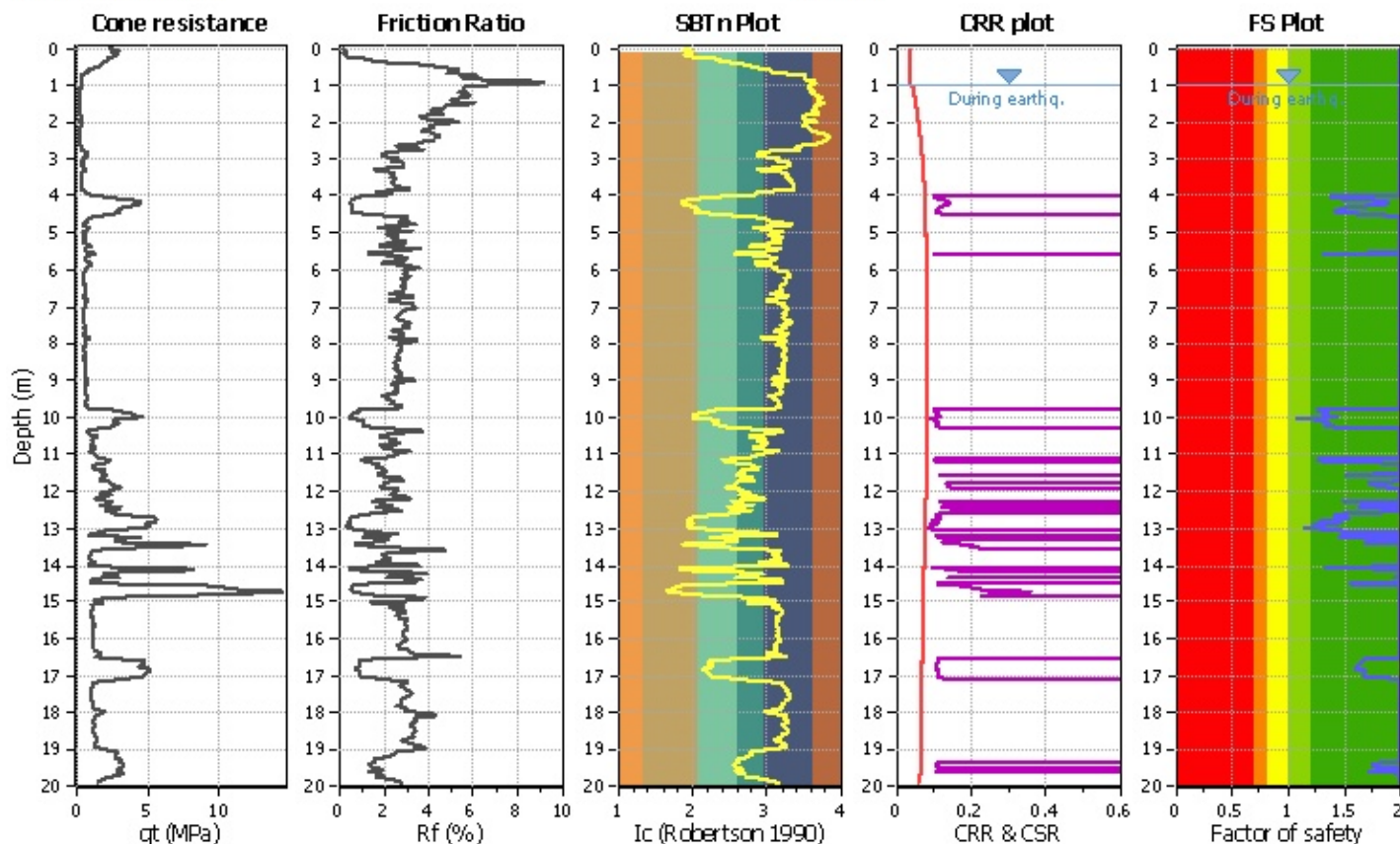
Project title :

Location :

CPT file : CPTU2

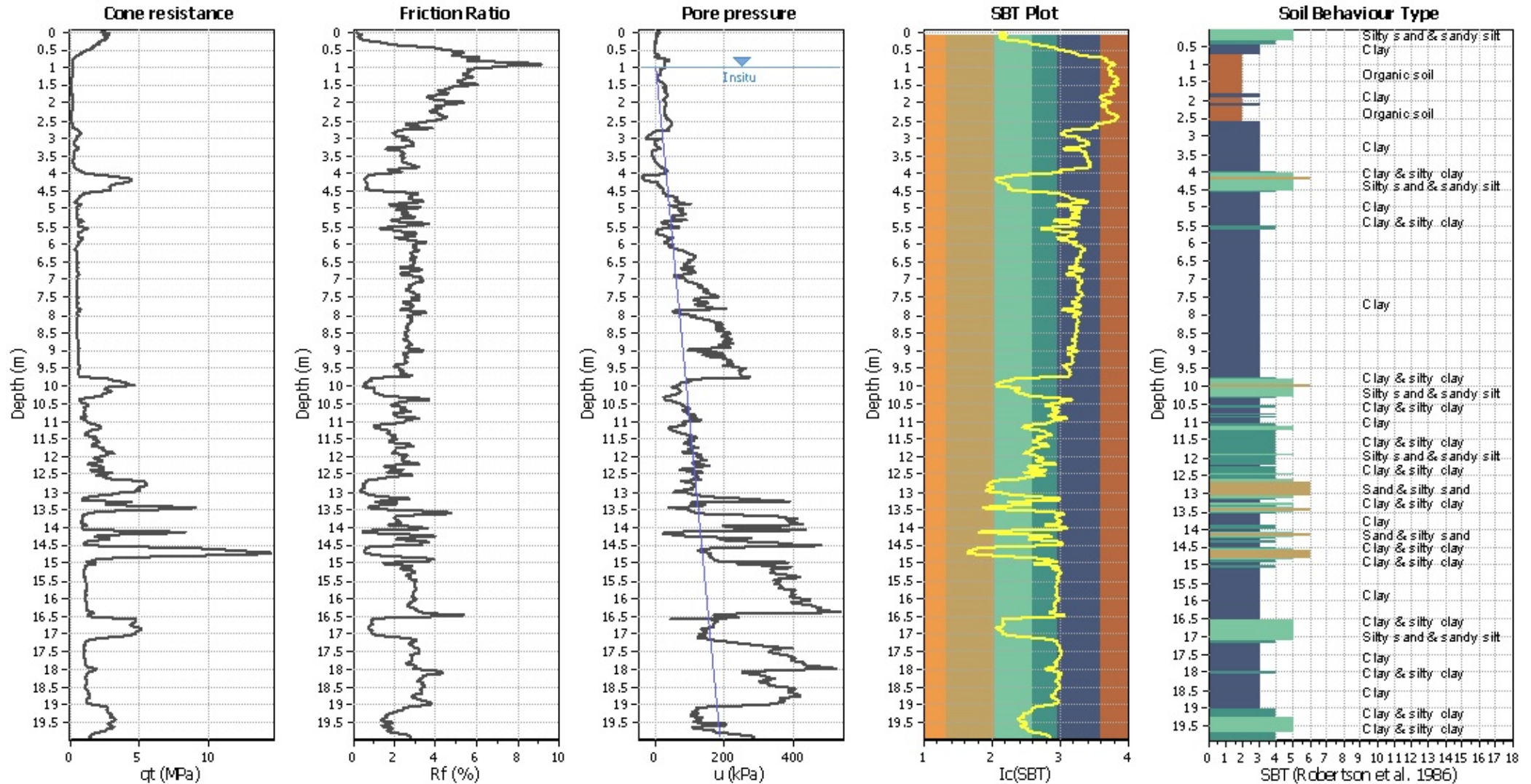
Input parameters and analysis data

| | | | | | | | |
|------------------------------|-------------------|---------------------------|--------------|-------------------------|-----|----------------------|--------------|
| Analysis method: | NCEER (1998) | G.W.T. (in-situ): | 1.00 m | Use fill: | No | Clay like behavior | |
| Fines correction method: | NCEER (1998) | G.W.T. (earthq.): | 1.00 m | Fill height: | N/A | applied: | Sands only |
| Points to test: | Based on Ic value | Average results interval: | 3 | Fill weight: | N/A | Limit depth applied: | No |
| Earthquake magnitude M_w : | 5.00 | Ic cut-off value: | 2.60 | Trans. detect. applied: | No | Limit depth: | N/A |
| Peak ground acceleration: | 0.17 | Unit weight calculation: | Based on SBT | K_0 applied: | Yes | MSF method: | Method based |



Zone A₁: Cyclic liquefaction likely depending on size and duration of cyclic loading
 Zone A₂: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
 Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
 Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

CPT basic interpretation plo



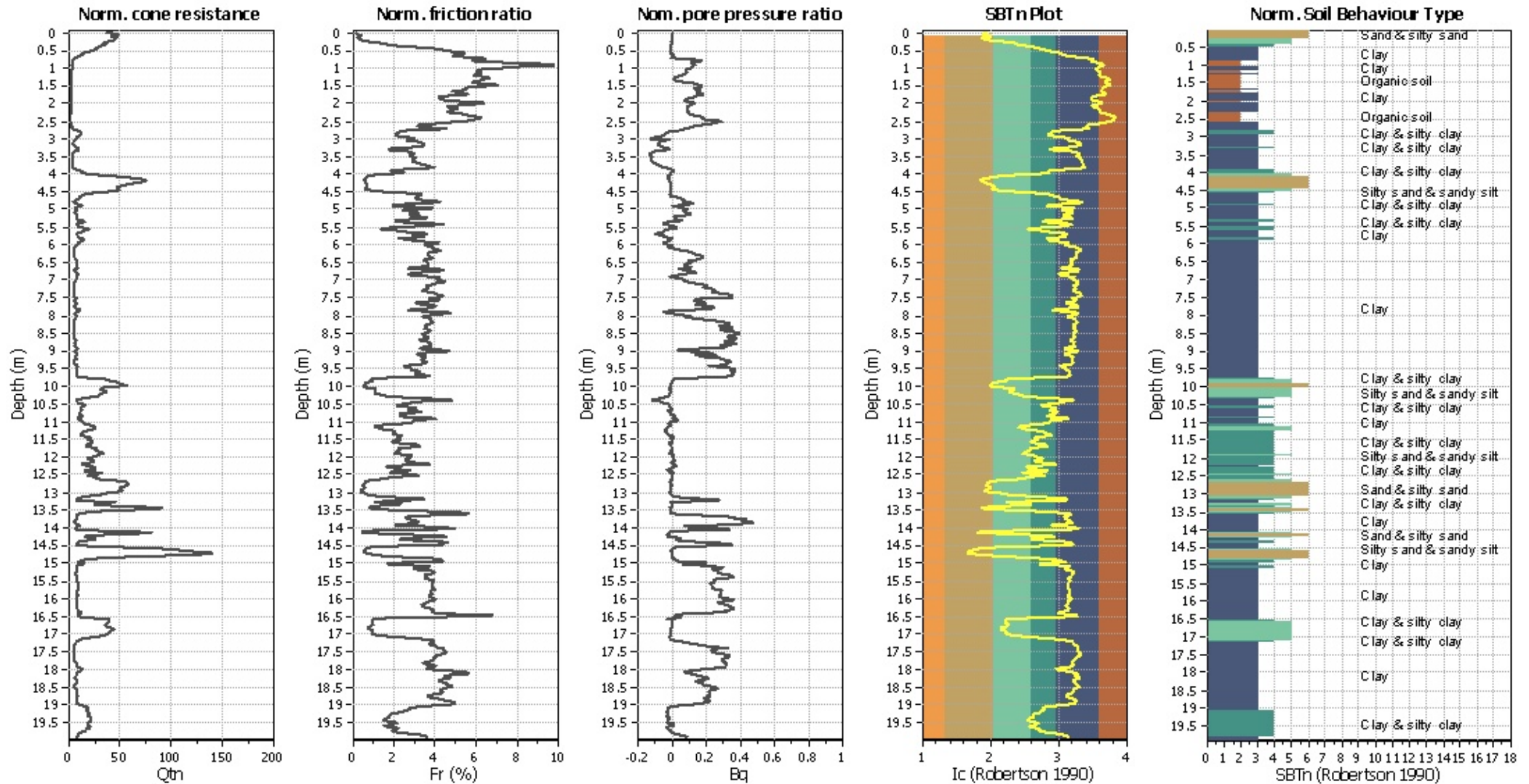
Input parameters and analysis data

| | | | | | |
|---------------------------------------|-------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K ₀ applied: | Yes |
| Earthquake magnitude M _w : | 5.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

SBT legend

| | | |
|---------------------------|-----------------------------|----------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty | 7. Gravely sand to sand |
| 2. Organic material | 5. Silty sand to sandy silt | 8. Very stiff sand to |
| 3. Clay to silty clay | 6. Clean sand to silty sand | 9. Very stiff fine grained |

CPT basic interpretation plots (normaliz



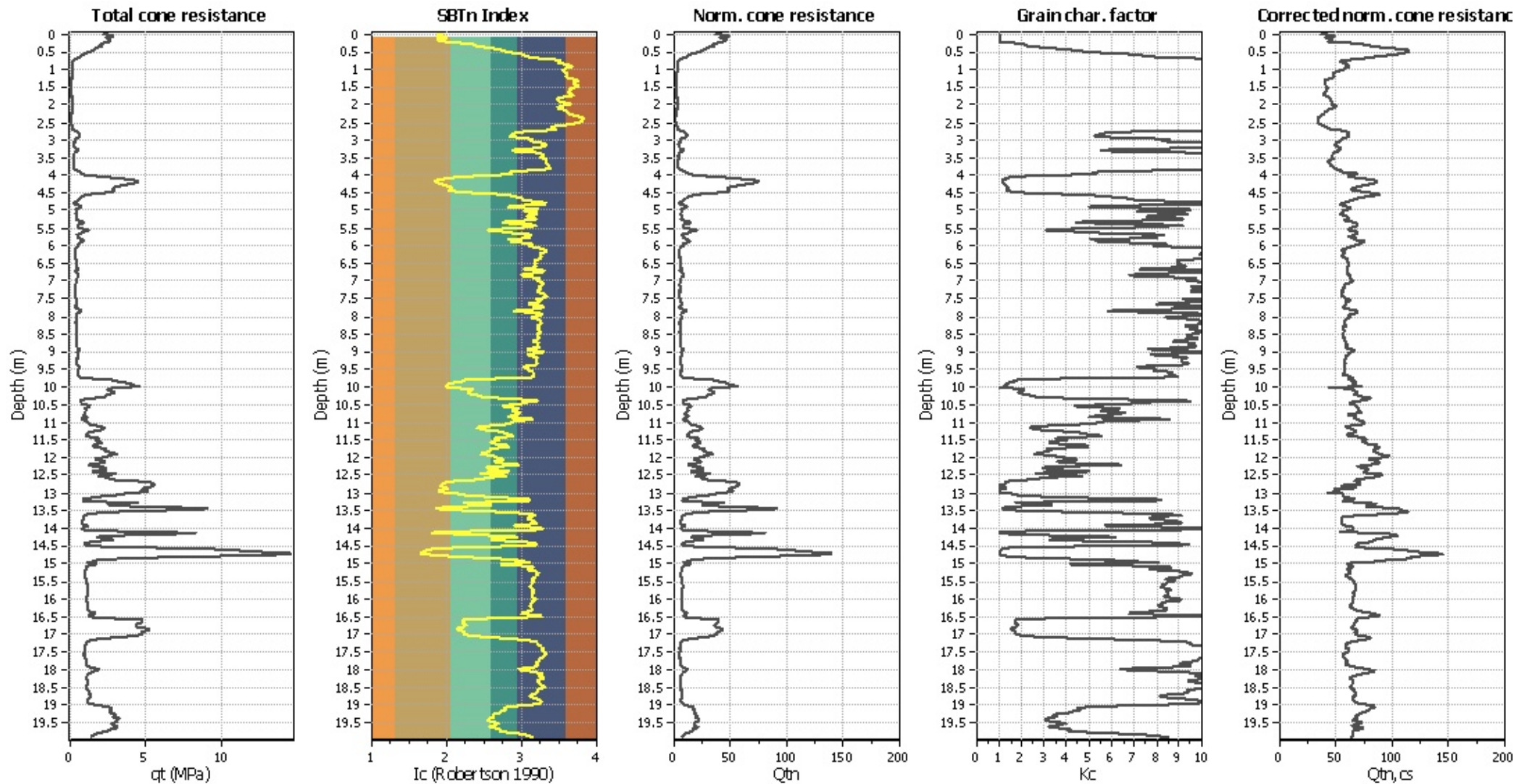
Input parameters and analysis data

| | | | | | |
|---------------------------------------|-------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K ₀ applied: | Yes |
| Earthquake magnitude M _w : | 5.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

SBTn legend

| | | |
|---------------------------|-----------------------------|----------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty | 7. Gravely sand to sand |
| 2. Organic material | 5. Silty sand to sandy silt | 8. Very stiff sand to |
| 3. Clay to silty clay | 6. Clean sand to silty sand | 9. Very stiff fine grained |

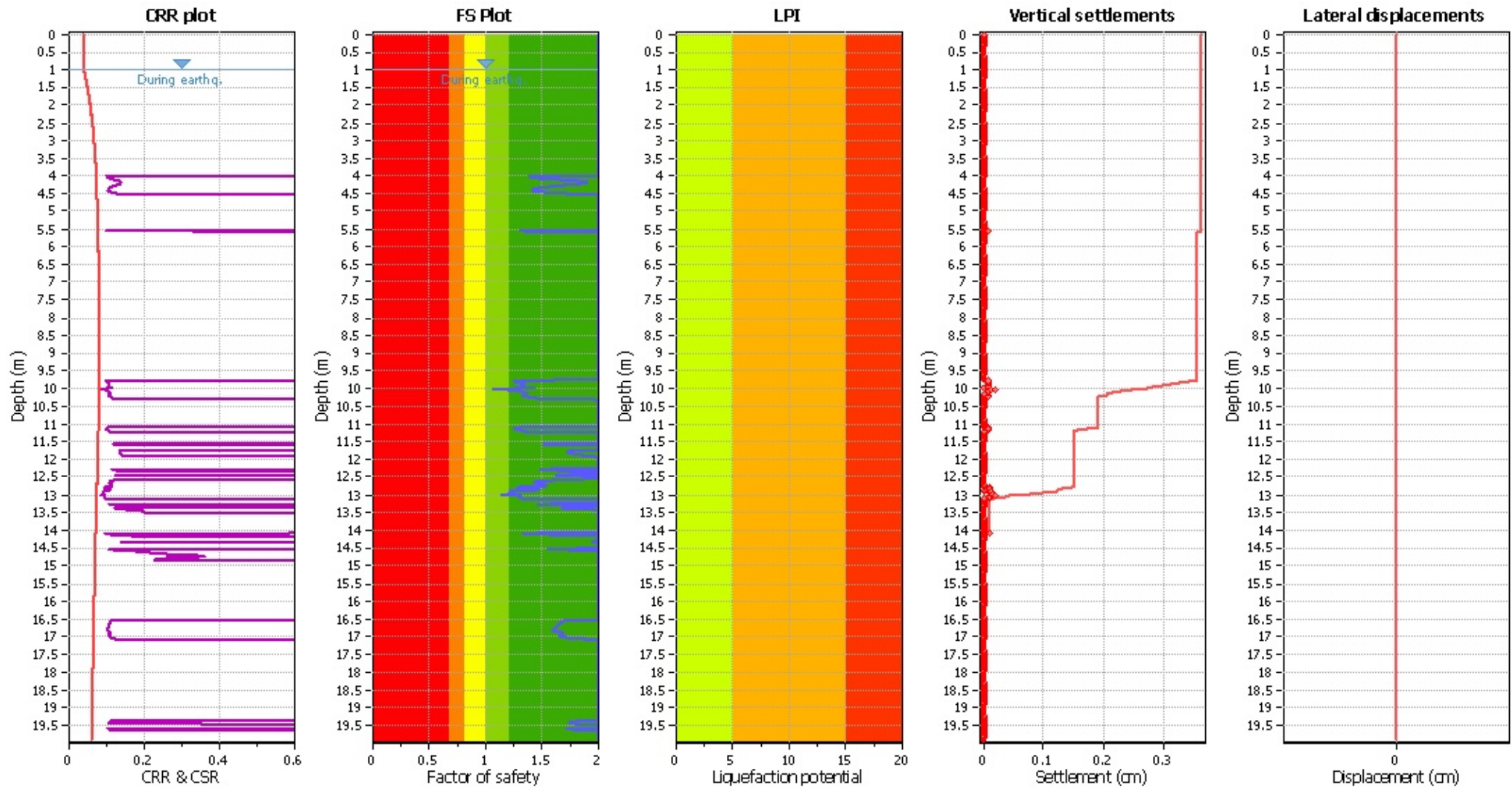
Liquefaction analysis overall plots (intermediate res)



Input parameters and analysis data

| | | | | | |
|---------------------------------------|-------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K ₀ applied: | Yes |
| Earthquake magnitude M _w : | 5.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

Liquefaction analysis overall plot



Input parameters and analysis data

| | | | | | |
|--------------------------------|-------------------|---------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (earthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 5.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

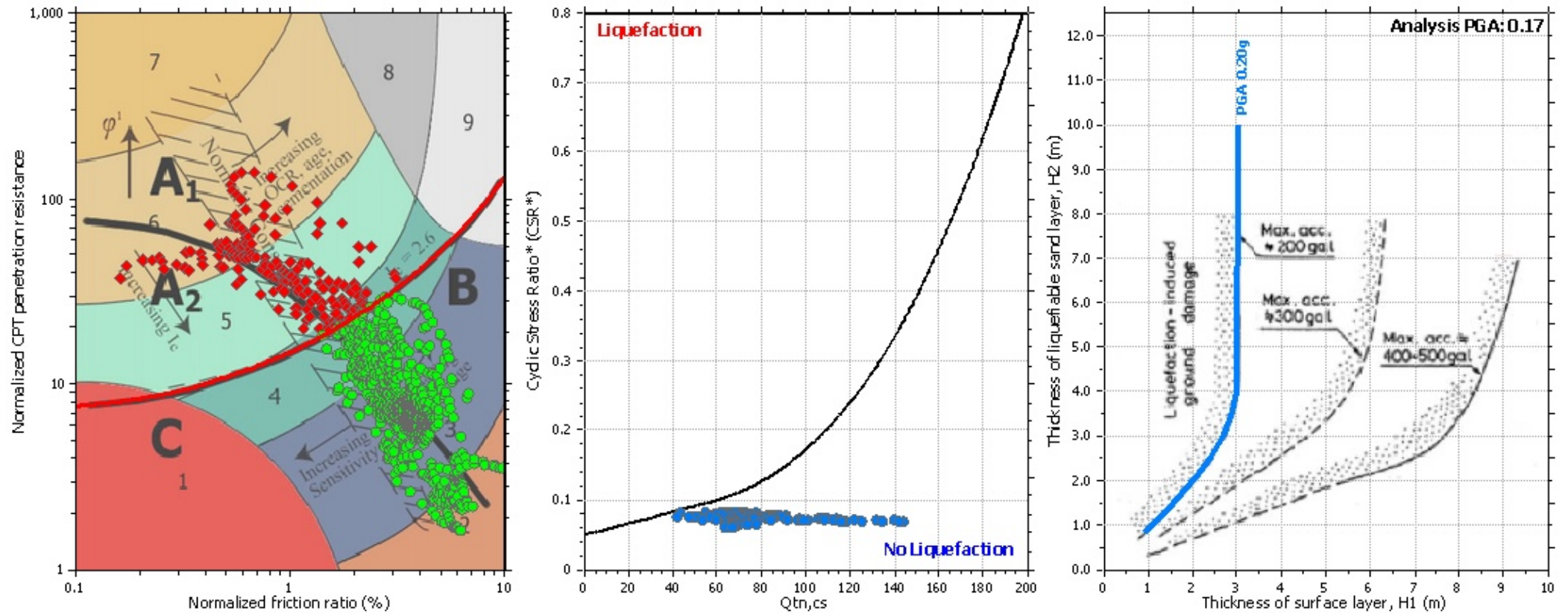
F.S. color scheme

| | |
|---|---|
| ■ | Almost certain it will liquefy |
| ■ | Very likely to liquefy |
| ■ | Liquefaction and no liq. are equally likely |
| ■ | Unlike to liquefy |
| ■ | Almost certain it will not liquefy |

LPI color scheme

| | |
|---------------------------------------|----------------|
| ■ | Very high risk |
| ■ | High risk |
| ■ | Low risk |

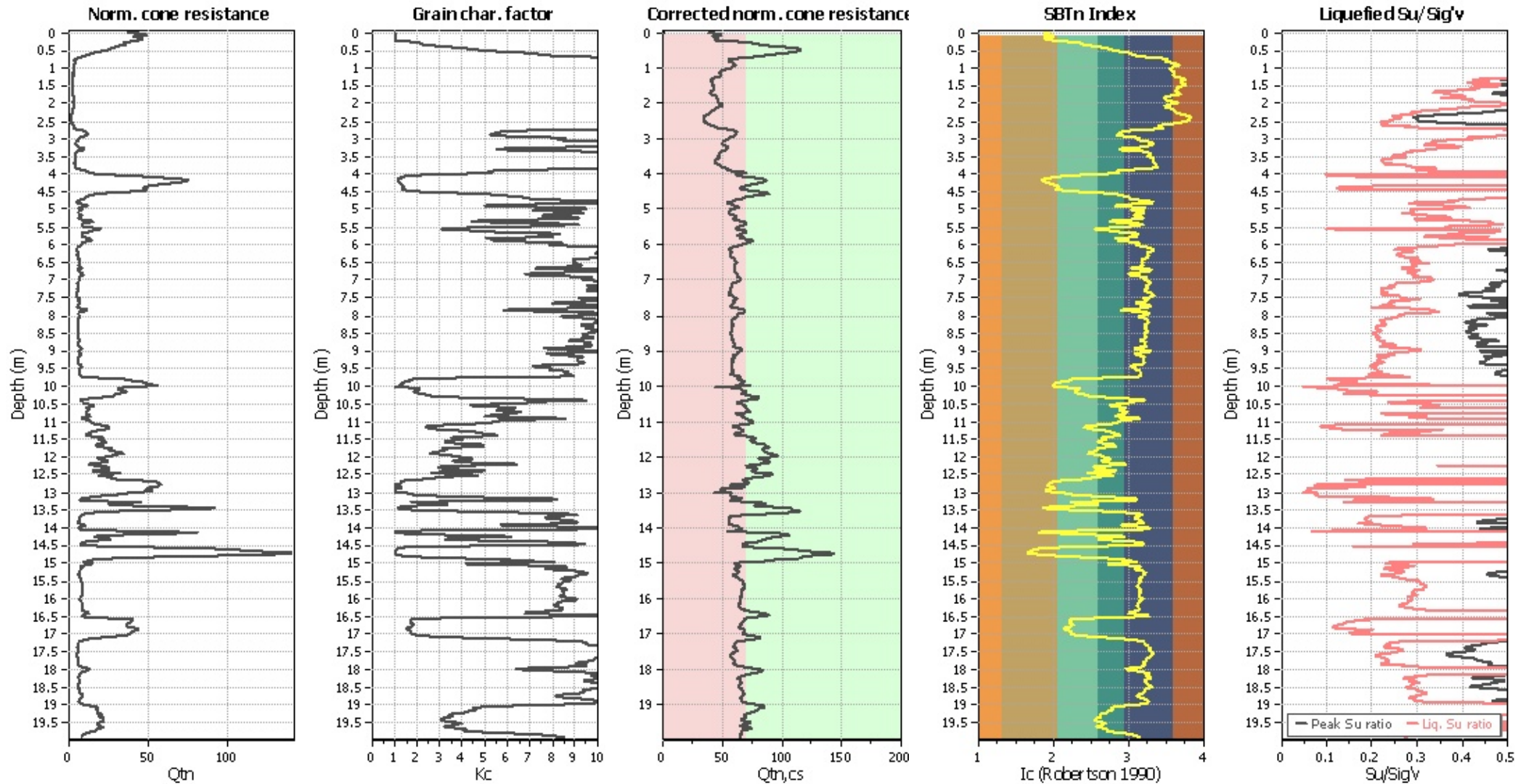
Liquefaction analysis summary plo



Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 5.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

Check for strength loss plots (Robertson (2010))



Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 5.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

| :: Liquefaction Potential Index calculation data :: | | | | | | | | | | | |
|---|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
| 0.02 | 2.00 | 0.00 | 9.99 | 0.02 | 0.00 | 0.04 | 2.00 | 0.00 | 9.98 | 0.02 | 0.00 |
| 0.06 | 2.00 | 0.00 | 9.97 | 0.02 | 0.00 | 0.08 | 2.00 | 0.00 | 9.96 | 0.02 | 0.00 |
| 0.10 | 2.00 | 0.00 | 9.95 | 0.02 | 0.00 | 0.12 | 2.00 | 0.00 | 9.94 | 0.02 | 0.00 |
| 0.14 | 2.00 | 0.00 | 9.93 | 0.02 | 0.00 | 0.16 | 2.00 | 0.00 | 9.92 | 0.02 | 0.00 |
| 0.18 | 2.00 | 0.00 | 9.91 | 0.02 | 0.00 | 0.20 | 2.00 | 0.00 | 9.90 | 0.02 | 0.00 |
| 0.22 | 2.00 | 0.00 | 9.89 | 0.02 | 0.00 | 0.24 | 2.00 | 0.00 | 9.88 | 0.02 | 0.00 |
| 0.26 | 2.00 | 0.00 | 9.87 | 0.02 | 0.00 | 0.28 | 2.00 | 0.00 | 9.86 | 0.02 | 0.00 |
| 0.30 | 2.00 | 0.00 | 9.85 | 0.02 | 0.00 | 0.32 | 2.00 | 0.00 | 9.84 | 0.02 | 0.00 |
| 0.34 | 2.00 | 0.00 | 9.83 | 0.02 | 0.00 | 0.36 | 2.00 | 0.00 | 9.82 | 0.02 | 0.00 |
| 0.38 | 2.00 | 0.00 | 9.81 | 0.02 | 0.00 | 0.40 | 2.00 | 0.00 | 9.80 | 0.02 | 0.00 |
| 0.42 | 2.00 | 0.00 | 9.79 | 0.02 | 0.00 | 0.44 | 2.00 | 0.00 | 9.78 | 0.02 | 0.00 |
| 0.46 | 2.00 | 0.00 | 9.77 | 0.02 | 0.00 | 0.48 | 2.00 | 0.00 | 9.76 | 0.02 | 0.00 |
| 0.50 | 2.00 | 0.00 | 9.75 | 0.02 | 0.00 | 0.52 | 2.00 | 0.00 | 9.74 | 0.02 | 0.00 |
| 0.54 | 2.00 | 0.00 | 9.73 | 0.02 | 0.00 | 0.56 | 2.00 | 0.00 | 9.72 | 0.02 | 0.00 |
| 0.58 | 2.00 | 0.00 | 9.71 | 0.02 | 0.00 | 0.60 | 2.00 | 0.00 | 9.70 | 0.02 | 0.00 |
| 0.62 | 2.00 | 0.00 | 9.69 | 0.02 | 0.00 | 0.64 | 2.00 | 0.00 | 9.68 | 0.02 | 0.00 |
| 0.66 | 2.00 | 0.00 | 9.67 | 0.02 | 0.00 | 0.68 | 2.00 | 0.00 | 9.66 | 0.02 | 0.00 |
| 0.70 | 2.00 | 0.00 | 9.65 | 0.02 | 0.00 | 0.72 | 2.00 | 0.00 | 9.64 | 0.02 | 0.00 |
| 0.74 | 2.00 | 0.00 | 9.63 | 0.02 | 0.00 | 0.76 | 2.00 | 0.00 | 9.62 | 0.02 | 0.00 |
| 0.78 | 2.00 | 0.00 | 9.61 | 0.02 | 0.00 | 0.80 | 2.00 | 0.00 | 9.60 | 0.02 | 0.00 |
| 0.82 | 2.00 | 0.00 | 9.59 | 0.02 | 0.00 | 0.84 | 2.00 | 0.00 | 9.58 | 0.02 | 0.00 |
| 0.86 | 2.00 | 0.00 | 9.57 | 0.02 | 0.00 | 0.88 | 2.00 | 0.00 | 9.56 | 0.02 | 0.00 |
| 0.90 | 2.00 | 0.00 | 9.55 | 0.02 | 0.00 | 0.92 | 2.00 | 0.00 | 9.54 | 0.02 | 0.00 |
| 0.94 | 2.00 | 0.00 | 9.53 | 0.02 | 0.00 | 0.96 | 2.00 | 0.00 | 9.52 | 0.02 | 0.00 |
| 0.98 | 2.00 | 0.00 | 9.51 | 0.02 | 0.00 | 1.00 | 2.00 | 0.00 | 9.50 | 0.02 | 0.00 |
| 1.02 | 2.00 | 0.00 | 9.49 | 0.02 | 0.00 | 1.04 | 2.00 | 0.00 | 9.48 | 0.02 | 0.00 |
| 1.06 | 2.00 | 0.00 | 9.47 | 0.02 | 0.00 | 1.08 | 2.00 | 0.00 | 9.46 | 0.02 | 0.00 |
| 1.10 | 2.00 | 0.00 | 9.45 | 0.02 | 0.00 | 1.12 | 2.00 | 0.00 | 9.44 | 0.02 | 0.00 |
| 1.14 | 2.00 | 0.00 | 9.43 | 0.02 | 0.00 | 1.16 | 2.00 | 0.00 | 9.42 | 0.02 | 0.00 |
| 1.18 | 2.00 | 0.00 | 9.41 | 0.02 | 0.00 | 1.20 | 2.00 | 0.00 | 9.40 | 0.02 | 0.00 |
| 1.22 | 2.00 | 0.00 | 9.39 | 0.02 | 0.00 | 1.24 | 2.00 | 0.00 | 9.38 | 0.02 | 0.00 |
| 1.26 | 2.00 | 0.00 | 9.37 | 0.02 | 0.00 | 1.28 | 2.00 | 0.00 | 9.36 | 0.02 | 0.00 |
| 1.30 | 2.00 | 0.00 | 9.35 | 0.02 | 0.00 | 1.32 | 2.00 | 0.00 | 9.34 | 0.02 | 0.00 |
| 1.34 | 2.00 | 0.00 | 9.33 | 0.02 | 0.00 | 1.36 | 2.00 | 0.00 | 9.32 | 0.02 | 0.00 |
| 1.38 | 2.00 | 0.00 | 9.31 | 0.02 | 0.00 | 1.40 | 2.00 | 0.00 | 9.30 | 0.02 | 0.00 |
| 1.42 | 2.00 | 0.00 | 9.29 | 0.02 | 0.00 | 1.44 | 2.00 | 0.00 | 9.28 | 0.02 | 0.00 |
| 1.46 | 2.00 | 0.00 | 9.27 | 0.02 | 0.00 | 1.48 | 2.00 | 0.00 | 9.26 | 0.02 | 0.00 |
| 1.50 | 2.00 | 0.00 | 9.25 | 0.02 | 0.00 | 1.52 | 2.00 | 0.00 | 9.24 | 0.02 | 0.00 |
| 1.54 | 2.00 | 0.00 | 9.23 | 0.02 | 0.00 | 1.56 | 2.00 | 0.00 | 9.22 | 0.02 | 0.00 |
| 1.58 | 2.00 | 0.00 | 9.21 | 0.02 | 0.00 | 1.60 | 2.00 | 0.00 | 9.20 | 0.02 | 0.00 |
| 1.62 | 2.00 | 0.00 | 9.19 | 0.02 | 0.00 | 1.64 | 2.00 | 0.00 | 9.18 | 0.02 | 0.00 |
| 1.66 | 2.00 | 0.00 | 9.17 | 0.02 | 0.00 | 1.68 | 2.00 | 0.00 | 9.16 | 0.02 | 0.00 |
| 1.70 | 2.00 | 0.00 | 9.15 | 0.02 | 0.00 | 1.72 | 2.00 | 0.00 | 9.14 | 0.02 | 0.00 |
| 1.74 | 2.00 | 0.00 | 9.13 | 0.02 | 0.00 | 1.76 | 2.00 | 0.00 | 9.12 | 0.02 | 0.00 |
| 1.78 | 2.00 | 0.00 | 9.11 | 0.02 | 0.00 | 1.80 | 2.00 | 0.00 | 9.10 | 0.02 | 0.00 |
| 1.82 | 2.00 | 0.00 | 9.09 | 0.02 | 0.00 | 1.84 | 2.00 | 0.00 | 9.08 | 0.02 | 0.00 |
| 1.86 | 2.00 | 0.00 | 9.07 | 0.02 | 0.00 | 1.88 | 2.00 | 0.00 | 9.06 | 0.02 | 0.00 |
| 1.90 | 2.00 | 0.00 | 9.05 | 0.02 | 0.00 | 1.92 | 2.00 | 0.00 | 9.04 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 1.94 | 2.00 | 0.00 | 9.03 | 0.02 | 0.00 | 1.96 | 2.00 | 0.00 | 9.02 | 0.02 | 0.00 |
| 1.98 | 2.00 | 0.00 | 9.01 | 0.02 | 0.00 | 2.00 | 2.00 | 0.00 | 9.00 | 0.02 | 0.00 |
| 2.02 | 2.00 | 0.00 | 8.99 | 0.02 | 0.00 | 2.04 | 2.00 | 0.00 | 8.98 | 0.02 | 0.00 |
| 2.06 | 2.00 | 0.00 | 8.97 | 0.02 | 0.00 | 2.08 | 2.00 | 0.00 | 8.96 | 0.02 | 0.00 |
| 2.10 | 2.00 | 0.00 | 8.95 | 0.02 | 0.00 | 2.12 | 2.00 | 0.00 | 8.94 | 0.02 | 0.00 |
| 2.14 | 2.00 | 0.00 | 8.93 | 0.02 | 0.00 | 2.16 | 2.00 | 0.00 | 8.92 | 0.02 | 0.00 |
| 2.18 | 2.00 | 0.00 | 8.91 | 0.02 | 0.00 | 2.20 | 2.00 | 0.00 | 8.90 | 0.02 | 0.00 |
| 2.22 | 2.00 | 0.00 | 8.89 | 0.02 | 0.00 | 2.24 | 2.00 | 0.00 | 8.88 | 0.02 | 0.00 |
| 2.26 | 2.00 | 0.00 | 8.87 | 0.02 | 0.00 | 2.28 | 2.00 | 0.00 | 8.86 | 0.02 | 0.00 |
| 2.30 | 2.00 | 0.00 | 8.85 | 0.02 | 0.00 | 2.32 | 2.00 | 0.00 | 8.84 | 0.02 | 0.00 |
| 2.34 | 2.00 | 0.00 | 8.83 | 0.02 | 0.00 | 2.36 | 2.00 | 0.00 | 8.82 | 0.02 | 0.00 |
| 2.38 | 2.00 | 0.00 | 8.81 | 0.02 | 0.00 | 2.40 | 2.00 | 0.00 | 8.80 | 0.02 | 0.00 |
| 2.42 | 2.00 | 0.00 | 8.79 | 0.02 | 0.00 | 2.44 | 2.00 | 0.00 | 8.78 | 0.02 | 0.00 |
| 2.46 | 2.00 | 0.00 | 8.77 | 0.02 | 0.00 | 2.48 | 2.00 | 0.00 | 8.76 | 0.02 | 0.00 |
| 2.50 | 2.00 | 0.00 | 8.75 | 0.02 | 0.00 | 2.52 | 2.00 | 0.00 | 8.74 | 0.02 | 0.00 |
| 2.54 | 2.00 | 0.00 | 8.73 | 0.02 | 0.00 | 2.56 | 2.00 | 0.00 | 8.72 | 0.02 | 0.00 |
| 2.58 | 2.00 | 0.00 | 8.71 | 0.02 | 0.00 | 2.60 | 2.00 | 0.00 | 8.70 | 0.02 | 0.00 |
| 2.62 | 2.00 | 0.00 | 8.69 | 0.02 | 0.00 | 2.64 | 2.00 | 0.00 | 8.68 | 0.02 | 0.00 |
| 2.66 | 2.00 | 0.00 | 8.67 | 0.02 | 0.00 | 2.68 | 2.00 | 0.00 | 8.66 | 0.02 | 0.00 |
| 2.70 | 2.00 | 0.00 | 8.65 | 0.02 | 0.00 | 2.72 | 2.00 | 0.00 | 8.64 | 0.02 | 0.00 |
| 2.74 | 2.00 | 0.00 | 8.63 | 0.02 | 0.00 | 2.76 | 2.00 | 0.00 | 8.62 | 0.02 | 0.00 |
| 2.78 | 2.00 | 0.00 | 8.61 | 0.02 | 0.00 | 2.80 | 2.00 | 0.00 | 8.60 | 0.02 | 0.00 |
| 2.82 | 2.00 | 0.00 | 8.59 | 0.02 | 0.00 | 2.84 | 2.00 | 0.00 | 8.58 | 0.02 | 0.00 |
| 2.86 | 2.00 | 0.00 | 8.57 | 0.02 | 0.00 | 2.88 | 2.00 | 0.00 | 8.56 | 0.02 | 0.00 |
| 2.90 | 2.00 | 0.00 | 8.55 | 0.02 | 0.00 | 2.92 | 2.00 | 0.00 | 8.54 | 0.02 | 0.00 |
| 2.94 | 2.00 | 0.00 | 8.53 | 0.02 | 0.00 | 2.96 | 2.00 | 0.00 | 8.52 | 0.02 | 0.00 |
| 2.98 | 2.00 | 0.00 | 8.51 | 0.02 | 0.00 | 3.00 | 2.00 | 0.00 | 8.50 | 0.02 | 0.00 |
| 3.02 | 2.00 | 0.00 | 8.49 | 0.02 | 0.00 | 3.04 | 2.00 | 0.00 | 8.48 | 0.02 | 0.00 |
| 3.06 | 2.00 | 0.00 | 8.47 | 0.02 | 0.00 | 3.08 | 2.00 | 0.00 | 8.46 | 0.02 | 0.00 |
| 3.10 | 2.00 | 0.00 | 8.45 | 0.02 | 0.00 | 3.12 | 2.00 | 0.00 | 8.44 | 0.02 | 0.00 |
| 3.14 | 2.00 | 0.00 | 8.43 | 0.02 | 0.00 | 3.16 | 2.00 | 0.00 | 8.42 | 0.02 | 0.00 |
| 3.18 | 2.00 | 0.00 | 8.41 | 0.02 | 0.00 | 3.20 | 2.00 | 0.00 | 8.40 | 0.02 | 0.00 |
| 3.22 | 2.00 | 0.00 | 8.39 | 0.02 | 0.00 | 3.24 | 2.00 | 0.00 | 8.38 | 0.02 | 0.00 |
| 3.26 | 2.00 | 0.00 | 8.37 | 0.02 | 0.00 | 3.28 | 2.00 | 0.00 | 8.36 | 0.02 | 0.00 |
| 3.30 | 2.00 | 0.00 | 8.35 | 0.02 | 0.00 | 3.32 | 2.00 | 0.00 | 8.34 | 0.02 | 0.00 |
| 3.34 | 2.00 | 0.00 | 8.33 | 0.02 | 0.00 | 3.36 | 2.00 | 0.00 | 8.32 | 0.02 | 0.00 |
| 3.38 | 2.00 | 0.00 | 8.31 | 0.02 | 0.00 | 3.40 | 2.00 | 0.00 | 8.30 | 0.02 | 0.00 |
| 3.42 | 2.00 | 0.00 | 8.29 | 0.02 | 0.00 | 3.44 | 2.00 | 0.00 | 8.28 | 0.02 | 0.00 |
| 3.46 | 2.00 | 0.00 | 8.27 | 0.02 | 0.00 | 3.48 | 2.00 | 0.00 | 8.26 | 0.02 | 0.00 |
| 3.50 | 2.00 | 0.00 | 8.25 | 0.02 | 0.00 | 3.52 | 2.00 | 0.00 | 8.24 | 0.02 | 0.00 |
| 3.54 | 2.00 | 0.00 | 8.23 | 0.02 | 0.00 | 3.56 | 2.00 | 0.00 | 8.22 | 0.02 | 0.00 |
| 3.58 | 2.00 | 0.00 | 8.21 | 0.02 | 0.00 | 3.60 | 2.00 | 0.00 | 8.20 | 0.02 | 0.00 |
| 3.62 | 2.00 | 0.00 | 8.19 | 0.02 | 0.00 | 3.64 | 2.00 | 0.00 | 8.18 | 0.02 | 0.00 |
| 3.66 | 2.00 | 0.00 | 8.17 | 0.02 | 0.00 | 3.68 | 2.00 | 0.00 | 8.16 | 0.02 | 0.00 |
| 3.70 | 2.00 | 0.00 | 8.15 | 0.02 | 0.00 | 3.72 | 2.00 | 0.00 | 8.14 | 0.02 | 0.00 |
| 3.74 | 2.00 | 0.00 | 8.13 | 0.02 | 0.00 | 3.76 | 2.00 | 0.00 | 8.12 | 0.02 | 0.00 |
| 3.78 | 2.00 | 0.00 | 8.11 | 0.02 | 0.00 | 3.80 | 2.00 | 0.00 | 8.10 | 0.02 | 0.00 |
| 3.82 | 2.00 | 0.00 | 8.09 | 0.02 | 0.00 | 3.84 | 2.00 | 0.00 | 8.08 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 3.86 | 2.00 | 0.00 | 8.07 | 0.02 | 0.00 | 3.88 | 2.00 | 0.00 | 8.06 | 0.02 | 0.00 |
| 3.90 | 2.00 | 0.00 | 8.05 | 0.02 | 0.00 | 3.92 | 2.00 | 0.00 | 8.04 | 0.02 | 0.00 |
| 3.94 | 2.00 | 0.00 | 8.03 | 0.02 | 0.00 | 3.96 | 2.00 | 0.00 | 8.02 | 0.02 | 0.00 |
| 3.98 | 2.00 | 0.00 | 8.01 | 0.02 | 0.00 | 4.00 | 1.38 | 0.00 | 8.00 | 0.02 | 0.00 |
| 4.02 | 1.39 | 0.00 | 7.99 | 0.02 | 0.00 | 4.04 | 1.44 | 0.00 | 7.98 | 0.02 | 0.00 |
| 4.06 | 1.50 | 0.00 | 7.97 | 0.02 | 0.00 | 4.08 | 1.60 | 0.00 | 7.96 | 0.02 | 0.00 |
| 4.10 | 1.70 | 0.00 | 7.95 | 0.02 | 0.00 | 4.12 | 1.80 | 0.00 | 7.94 | 0.02 | 0.00 |
| 4.14 | 1.84 | 0.00 | 7.93 | 0.02 | 0.00 | 4.16 | 1.87 | 0.00 | 7.92 | 0.02 | 0.00 |
| 4.18 | 1.90 | 0.00 | 7.91 | 0.02 | 0.00 | 4.20 | 1.89 | 0.00 | 7.90 | 0.02 | 0.00 |
| 4.22 | 1.87 | 0.00 | 7.89 | 0.02 | 0.00 | 4.24 | 1.80 | 0.00 | 7.88 | 0.02 | 0.00 |
| 4.26 | 1.73 | 0.00 | 7.87 | 0.02 | 0.00 | 4.28 | 1.65 | 0.00 | 7.86 | 0.02 | 0.00 |
| 4.30 | 1.59 | 0.00 | 7.85 | 0.02 | 0.00 | 4.32 | 1.53 | 0.00 | 7.84 | 0.02 | 0.00 |
| 4.34 | 1.49 | 0.00 | 7.83 | 0.02 | 0.00 | 4.36 | 1.47 | 0.00 | 7.82 | 0.02 | 0.00 |
| 4.38 | 1.43 | 0.00 | 7.81 | 0.02 | 0.00 | 4.40 | 1.41 | 0.00 | 7.80 | 0.02 | 0.00 |
| 4.42 | 1.41 | 0.00 | 7.79 | 0.02 | 0.00 | 4.44 | 1.44 | 0.00 | 7.78 | 0.02 | 0.00 |
| 4.46 | 1.51 | 0.00 | 7.77 | 0.02 | 0.00 | 4.48 | 1.58 | 0.00 | 7.76 | 0.02 | 0.00 |
| 4.50 | 1.69 | 0.00 | 7.75 | 0.02 | 0.00 | 4.52 | 1.82 | 0.00 | 7.74 | 0.02 | 0.00 |
| 4.54 | 2.00 | 0.00 | 7.73 | 0.02 | 0.00 | 4.56 | 2.00 | 0.00 | 7.72 | 0.02 | 0.00 |
| 4.58 | 2.00 | 0.00 | 7.71 | 0.02 | 0.00 | 4.60 | 2.00 | 0.00 | 7.70 | 0.02 | 0.00 |
| 4.62 | 2.00 | 0.00 | 7.69 | 0.02 | 0.00 | 4.64 | 2.00 | 0.00 | 7.68 | 0.02 | 0.00 |
| 4.66 | 2.00 | 0.00 | 7.67 | 0.02 | 0.00 | 4.68 | 2.00 | 0.00 | 7.66 | 0.02 | 0.00 |
| 4.70 | 2.00 | 0.00 | 7.65 | 0.02 | 0.00 | 4.72 | 2.00 | 0.00 | 7.64 | 0.02 | 0.00 |
| 4.74 | 2.00 | 0.00 | 7.63 | 0.02 | 0.00 | 4.76 | 2.00 | 0.00 | 7.62 | 0.02 | 0.00 |
| 4.78 | 2.00 | 0.00 | 7.61 | 0.02 | 0.00 | 4.80 | 2.00 | 0.00 | 7.60 | 0.02 | 0.00 |
| 4.82 | 2.00 | 0.00 | 7.59 | 0.02 | 0.00 | 4.84 | 2.00 | 0.00 | 7.58 | 0.02 | 0.00 |
| 4.86 | 2.00 | 0.00 | 7.57 | 0.02 | 0.00 | 4.88 | 2.00 | 0.00 | 7.56 | 0.02 | 0.00 |
| 4.90 | 2.00 | 0.00 | 7.55 | 0.02 | 0.00 | 4.92 | 2.00 | 0.00 | 7.54 | 0.02 | 0.00 |
| 4.94 | 2.00 | 0.00 | 7.53 | 0.02 | 0.00 | 4.96 | 2.00 | 0.00 | 7.52 | 0.02 | 0.00 |
| 4.98 | 2.00 | 0.00 | 7.51 | 0.02 | 0.00 | 5.00 | 2.00 | 0.00 | 7.50 | 0.02 | 0.00 |
| 5.02 | 2.00 | 0.00 | 7.49 | 0.02 | 0.00 | 5.04 | 2.00 | 0.00 | 7.48 | 0.02 | 0.00 |
| 5.06 | 2.00 | 0.00 | 7.47 | 0.02 | 0.00 | 5.08 | 2.00 | 0.00 | 7.46 | 0.02 | 0.00 |
| 5.10 | 2.00 | 0.00 | 7.45 | 0.02 | 0.00 | 5.12 | 2.00 | 0.00 | 7.44 | 0.02 | 0.00 |
| 5.14 | 2.00 | 0.00 | 7.43 | 0.02 | 0.00 | 5.16 | 2.00 | 0.00 | 7.42 | 0.02 | 0.00 |
| 5.18 | 2.00 | 0.00 | 7.41 | 0.02 | 0.00 | 5.20 | 2.00 | 0.00 | 7.40 | 0.02 | 0.00 |
| 5.22 | 2.00 | 0.00 | 7.39 | 0.02 | 0.00 | 5.24 | 2.00 | 0.00 | 7.38 | 0.02 | 0.00 |
| 5.26 | 2.00 | 0.00 | 7.37 | 0.02 | 0.00 | 5.28 | 2.00 | 0.00 | 7.36 | 0.02 | 0.00 |
| 5.30 | 2.00 | 0.00 | 7.35 | 0.02 | 0.00 | 5.32 | 2.00 | 0.00 | 7.34 | 0.02 | 0.00 |
| 5.34 | 2.00 | 0.00 | 7.33 | 0.02 | 0.00 | 5.36 | 2.00 | 0.00 | 7.32 | 0.02 | 0.00 |
| 5.38 | 2.00 | 0.00 | 7.31 | 0.02 | 0.00 | 5.40 | 2.00 | 0.00 | 7.30 | 0.02 | 0.00 |
| 5.42 | 2.00 | 0.00 | 7.29 | 0.02 | 0.00 | 5.44 | 2.00 | 0.00 | 7.28 | 0.02 | 0.00 |
| 5.46 | 2.00 | 0.00 | 7.27 | 0.02 | 0.00 | 5.48 | 2.00 | 0.00 | 7.26 | 0.02 | 0.00 |
| 5.50 | 2.00 | 0.00 | 7.25 | 0.02 | 0.00 | 5.52 | 2.00 | 0.00 | 7.24 | 0.02 | 0.00 |
| 5.54 | 2.00 | 0.00 | 7.23 | 0.02 | 0.00 | 5.56 | 1.31 | 0.00 | 7.22 | 0.02 | 0.00 |
| 5.58 | 2.00 | 0.00 | 7.21 | 0.02 | 0.00 | 5.60 | 2.00 | 0.00 | 7.20 | 0.02 | 0.00 |
| 5.62 | 2.00 | 0.00 | 7.19 | 0.02 | 0.00 | 5.64 | 2.00 | 0.00 | 7.18 | 0.02 | 0.00 |
| 5.66 | 2.00 | 0.00 | 7.17 | 0.02 | 0.00 | 5.68 | 2.00 | 0.00 | 7.16 | 0.02 | 0.00 |
| 5.70 | 2.00 | 0.00 | 7.15 | 0.02 | 0.00 | 5.72 | 2.00 | 0.00 | 7.14 | 0.02 | 0.00 |
| 5.74 | 2.00 | 0.00 | 7.13 | 0.02 | 0.00 | 5.76 | 2.00 | 0.00 | 7.12 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 5.78 | 2.00 | 0.00 | 7.11 | 0.02 | 0.00 | 5.80 | 2.00 | 0.00 | 7.10 | 0.02 | 0.00 |
| 5.82 | 2.00 | 0.00 | 7.09 | 0.02 | 0.00 | 5.84 | 2.00 | 0.00 | 7.08 | 0.02 | 0.00 |
| 5.86 | 2.00 | 0.00 | 7.07 | 0.02 | 0.00 | 5.88 | 2.00 | 0.00 | 7.06 | 0.02 | 0.00 |
| 5.90 | 2.00 | 0.00 | 7.05 | 0.02 | 0.00 | 5.92 | 2.00 | 0.00 | 7.04 | 0.02 | 0.00 |
| 5.94 | 2.00 | 0.00 | 7.03 | 0.02 | 0.00 | 5.96 | 2.00 | 0.00 | 7.02 | 0.02 | 0.00 |
| 5.98 | 2.00 | 0.00 | 7.01 | 0.02 | 0.00 | 6.00 | 2.00 | 0.00 | 7.00 | 0.02 | 0.00 |
| 6.02 | 2.00 | 0.00 | 6.99 | 0.02 | 0.00 | 6.04 | 2.00 | 0.00 | 6.98 | 0.02 | 0.00 |
| 6.06 | 2.00 | 0.00 | 6.97 | 0.02 | 0.00 | 6.08 | 2.00 | 0.00 | 6.96 | 0.02 | 0.00 |
| 6.10 | 2.00 | 0.00 | 6.95 | 0.02 | 0.00 | 6.12 | 2.00 | 0.00 | 6.94 | 0.02 | 0.00 |
| 6.14 | 2.00 | 0.00 | 6.93 | 0.02 | 0.00 | 6.16 | 2.00 | 0.00 | 6.92 | 0.02 | 0.00 |
| 6.18 | 2.00 | 0.00 | 6.91 | 0.02 | 0.00 | 6.20 | 2.00 | 0.00 | 6.90 | 0.02 | 0.00 |
| 6.22 | 2.00 | 0.00 | 6.89 | 0.02 | 0.00 | 6.24 | 2.00 | 0.00 | 6.88 | 0.02 | 0.00 |
| 6.26 | 2.00 | 0.00 | 6.87 | 0.02 | 0.00 | 6.28 | 2.00 | 0.00 | 6.86 | 0.02 | 0.00 |
| 6.30 | 2.00 | 0.00 | 6.85 | 0.02 | 0.00 | 6.32 | 2.00 | 0.00 | 6.84 | 0.02 | 0.00 |
| 6.34 | 2.00 | 0.00 | 6.83 | 0.02 | 0.00 | 6.36 | 2.00 | 0.00 | 6.82 | 0.02 | 0.00 |
| 6.38 | 2.00 | 0.00 | 6.81 | 0.02 | 0.00 | 6.40 | 2.00 | 0.00 | 6.80 | 0.02 | 0.00 |
| 6.42 | 2.00 | 0.00 | 6.79 | 0.02 | 0.00 | 6.44 | 2.00 | 0.00 | 6.78 | 0.02 | 0.00 |
| 6.46 | 2.00 | 0.00 | 6.77 | 0.02 | 0.00 | 6.48 | 2.00 | 0.00 | 6.76 | 0.02 | 0.00 |
| 6.50 | 2.00 | 0.00 | 6.75 | 0.02 | 0.00 | 6.52 | 2.00 | 0.00 | 6.74 | 0.02 | 0.00 |
| 6.54 | 2.00 | 0.00 | 6.73 | 0.02 | 0.00 | 6.56 | 2.00 | 0.00 | 6.72 | 0.02 | 0.00 |
| 6.58 | 2.00 | 0.00 | 6.71 | 0.02 | 0.00 | 6.60 | 2.00 | 0.00 | 6.70 | 0.02 | 0.00 |
| 6.62 | 2.00 | 0.00 | 6.69 | 0.02 | 0.00 | 6.64 | 2.00 | 0.00 | 6.68 | 0.02 | 0.00 |
| 6.66 | 2.00 | 0.00 | 6.67 | 0.02 | 0.00 | 6.68 | 2.00 | 0.00 | 6.66 | 0.02 | 0.00 |
| 6.70 | 2.00 | 0.00 | 6.65 | 0.02 | 0.00 | 6.72 | 2.00 | 0.00 | 6.64 | 0.02 | 0.00 |
| 6.74 | 2.00 | 0.00 | 6.63 | 0.02 | 0.00 | 6.76 | 2.00 | 0.00 | 6.62 | 0.02 | 0.00 |
| 6.78 | 2.00 | 0.00 | 6.61 | 0.02 | 0.00 | 6.80 | 2.00 | 0.00 | 6.60 | 0.02 | 0.00 |
| 6.82 | 2.00 | 0.00 | 6.59 | 0.02 | 0.00 | 6.84 | 2.00 | 0.00 | 6.58 | 0.02 | 0.00 |
| 6.86 | 2.00 | 0.00 | 6.57 | 0.02 | 0.00 | 6.88 | 2.00 | 0.00 | 6.56 | 0.02 | 0.00 |
| 6.90 | 2.00 | 0.00 | 6.55 | 0.02 | 0.00 | 6.92 | 2.00 | 0.00 | 6.54 | 0.02 | 0.00 |
| 6.94 | 2.00 | 0.00 | 6.53 | 0.02 | 0.00 | 6.96 | 2.00 | 0.00 | 6.52 | 0.02 | 0.00 |
| 6.98 | 2.00 | 0.00 | 6.51 | 0.02 | 0.00 | 7.00 | 2.00 | 0.00 | 6.50 | 0.02 | 0.00 |
| 7.02 | 2.00 | 0.00 | 6.49 | 0.02 | 0.00 | 7.04 | 2.00 | 0.00 | 6.48 | 0.02 | 0.00 |
| 7.06 | 2.00 | 0.00 | 6.47 | 0.02 | 0.00 | 7.08 | 2.00 | 0.00 | 6.46 | 0.02 | 0.00 |
| 7.10 | 2.00 | 0.00 | 6.45 | 0.02 | 0.00 | 7.12 | 2.00 | 0.00 | 6.44 | 0.02 | 0.00 |
| 7.14 | 2.00 | 0.00 | 6.43 | 0.02 | 0.00 | 7.16 | 2.00 | 0.00 | 6.42 | 0.02 | 0.00 |
| 7.18 | 2.00 | 0.00 | 6.41 | 0.02 | 0.00 | 7.20 | 2.00 | 0.00 | 6.40 | 0.02 | 0.00 |
| 7.22 | 2.00 | 0.00 | 6.39 | 0.02 | 0.00 | 7.24 | 2.00 | 0.00 | 6.38 | 0.02 | 0.00 |
| 7.26 | 2.00 | 0.00 | 6.37 | 0.02 | 0.00 | 7.28 | 2.00 | 0.00 | 6.36 | 0.02 | 0.00 |
| 7.30 | 2.00 | 0.00 | 6.35 | 0.02 | 0.00 | 7.32 | 2.00 | 0.00 | 6.34 | 0.02 | 0.00 |
| 7.34 | 2.00 | 0.00 | 6.33 | 0.02 | 0.00 | 7.36 | 2.00 | 0.00 | 6.32 | 0.02 | 0.00 |
| 7.38 | 2.00 | 0.00 | 6.31 | 0.02 | 0.00 | 7.40 | 2.00 | 0.00 | 6.30 | 0.02 | 0.00 |
| 7.42 | 2.00 | 0.00 | 6.29 | 0.02 | 0.00 | 7.44 | 2.00 | 0.00 | 6.28 | 0.02 | 0.00 |
| 7.46 | 2.00 | 0.00 | 6.27 | 0.02 | 0.00 | 7.48 | 2.00 | 0.00 | 6.26 | 0.02 | 0.00 |
| 7.50 | 2.00 | 0.00 | 6.25 | 0.02 | 0.00 | 7.52 | 2.00 | 0.00 | 6.24 | 0.02 | 0.00 |
| 7.54 | 2.00 | 0.00 | 6.23 | 0.02 | 0.00 | 7.56 | 2.00 | 0.00 | 6.22 | 0.02 | 0.00 |
| 7.58 | 2.00 | 0.00 | 6.21 | 0.02 | 0.00 | 7.60 | 2.00 | 0.00 | 6.20 | 0.02 | 0.00 |
| 7.62 | 2.00 | 0.00 | 6.19 | 0.02 | 0.00 | 7.64 | 2.00 | 0.00 | 6.18 | 0.02 | 0.00 |
| 7.66 | 2.00 | 0.00 | 6.17 | 0.02 | 0.00 | 7.68 | 2.00 | 0.00 | 6.16 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 7.70 | 2.00 | 0.00 | 6.15 | 0.02 | 0.00 | 7.72 | 2.00 | 0.00 | 6.14 | 0.02 | 0.00 |
| 7.74 | 2.00 | 0.00 | 6.13 | 0.02 | 0.00 | 7.76 | 2.00 | 0.00 | 6.12 | 0.02 | 0.00 |
| 7.78 | 2.00 | 0.00 | 6.11 | 0.02 | 0.00 | 7.80 | 2.00 | 0.00 | 6.10 | 0.02 | 0.00 |
| 7.82 | 2.00 | 0.00 | 6.09 | 0.02 | 0.00 | 7.84 | 2.00 | 0.00 | 6.08 | 0.02 | 0.00 |
| 7.86 | 2.00 | 0.00 | 6.07 | 0.02 | 0.00 | 7.88 | 2.00 | 0.00 | 6.06 | 0.02 | 0.00 |
| 7.90 | 2.00 | 0.00 | 6.05 | 0.02 | 0.00 | 7.92 | 2.00 | 0.00 | 6.04 | 0.02 | 0.00 |
| 7.94 | 2.00 | 0.00 | 6.03 | 0.02 | 0.00 | 7.96 | 2.00 | 0.00 | 6.02 | 0.02 | 0.00 |
| 7.98 | 2.00 | 0.00 | 6.01 | 0.02 | 0.00 | 8.00 | 2.00 | 0.00 | 6.00 | 0.02 | 0.00 |
| 8.02 | 2.00 | 0.00 | 5.99 | 0.02 | 0.00 | 8.04 | 2.00 | 0.00 | 5.98 | 0.02 | 0.00 |
| 8.06 | 2.00 | 0.00 | 5.97 | 0.02 | 0.00 | 8.08 | 2.00 | 0.00 | 5.96 | 0.02 | 0.00 |
| 8.10 | 2.00 | 0.00 | 5.95 | 0.02 | 0.00 | 8.12 | 2.00 | 0.00 | 5.94 | 0.02 | 0.00 |
| 8.14 | 2.00 | 0.00 | 5.93 | 0.02 | 0.00 | 8.16 | 2.00 | 0.00 | 5.92 | 0.02 | 0.00 |
| 8.18 | 2.00 | 0.00 | 5.91 | 0.02 | 0.00 | 8.20 | 2.00 | 0.00 | 5.90 | 0.02 | 0.00 |
| 8.22 | 2.00 | 0.00 | 5.89 | 0.02 | 0.00 | 8.24 | 2.00 | 0.00 | 5.88 | 0.02 | 0.00 |
| 8.26 | 2.00 | 0.00 | 5.87 | 0.02 | 0.00 | 8.28 | 2.00 | 0.00 | 5.86 | 0.02 | 0.00 |
| 8.30 | 2.00 | 0.00 | 5.85 | 0.02 | 0.00 | 8.32 | 2.00 | 0.00 | 5.84 | 0.02 | 0.00 |
| 8.34 | 2.00 | 0.00 | 5.83 | 0.02 | 0.00 | 8.36 | 2.00 | 0.00 | 5.82 | 0.02 | 0.00 |
| 8.38 | 2.00 | 0.00 | 5.81 | 0.02 | 0.00 | 8.40 | 2.00 | 0.00 | 5.80 | 0.02 | 0.00 |
| 8.42 | 2.00 | 0.00 | 5.79 | 0.02 | 0.00 | 8.44 | 2.00 | 0.00 | 5.78 | 0.02 | 0.00 |
| 8.46 | 2.00 | 0.00 | 5.77 | 0.02 | 0.00 | 8.48 | 2.00 | 0.00 | 5.76 | 0.02 | 0.00 |
| 8.50 | 2.00 | 0.00 | 5.75 | 0.02 | 0.00 | 8.52 | 2.00 | 0.00 | 5.74 | 0.02 | 0.00 |
| 8.54 | 2.00 | 0.00 | 5.73 | 0.02 | 0.00 | 8.56 | 2.00 | 0.00 | 5.72 | 0.02 | 0.00 |
| 8.58 | 2.00 | 0.00 | 5.71 | 0.02 | 0.00 | 8.60 | 2.00 | 0.00 | 5.70 | 0.02 | 0.00 |
| 8.62 | 2.00 | 0.00 | 5.69 | 0.02 | 0.00 | 8.64 | 2.00 | 0.00 | 5.68 | 0.02 | 0.00 |
| 8.66 | 2.00 | 0.00 | 5.67 | 0.02 | 0.00 | 8.68 | 2.00 | 0.00 | 5.66 | 0.02 | 0.00 |
| 8.70 | 2.00 | 0.00 | 5.65 | 0.02 | 0.00 | 8.72 | 2.00 | 0.00 | 5.64 | 0.02 | 0.00 |
| 8.74 | 2.00 | 0.00 | 5.63 | 0.02 | 0.00 | 8.76 | 2.00 | 0.00 | 5.62 | 0.02 | 0.00 |
| 8.78 | 2.00 | 0.00 | 5.61 | 0.02 | 0.00 | 8.80 | 2.00 | 0.00 | 5.60 | 0.02 | 0.00 |
| 8.82 | 2.00 | 0.00 | 5.59 | 0.02 | 0.00 | 8.84 | 2.00 | 0.00 | 5.58 | 0.02 | 0.00 |
| 8.86 | 2.00 | 0.00 | 5.57 | 0.02 | 0.00 | 8.88 | 2.00 | 0.00 | 5.56 | 0.02 | 0.00 |
| 8.90 | 2.00 | 0.00 | 5.55 | 0.02 | 0.00 | 8.92 | 2.00 | 0.00 | 5.54 | 0.02 | 0.00 |
| 8.94 | 2.00 | 0.00 | 5.53 | 0.02 | 0.00 | 8.96 | 2.00 | 0.00 | 5.52 | 0.02 | 0.00 |
| 8.98 | 2.00 | 0.00 | 5.51 | 0.02 | 0.00 | 9.00 | 2.00 | 0.00 | 5.50 | 0.02 | 0.00 |
| 9.02 | 2.00 | 0.00 | 5.49 | 0.02 | 0.00 | 9.04 | 2.00 | 0.00 | 5.48 | 0.02 | 0.00 |
| 9.06 | 2.00 | 0.00 | 5.47 | 0.02 | 0.00 | 9.08 | 2.00 | 0.00 | 5.46 | 0.02 | 0.00 |
| 9.10 | 2.00 | 0.00 | 5.45 | 0.02 | 0.00 | 9.12 | 2.00 | 0.00 | 5.44 | 0.02 | 0.00 |
| 9.14 | 2.00 | 0.00 | 5.43 | 0.02 | 0.00 | 9.16 | 2.00 | 0.00 | 5.42 | 0.02 | 0.00 |
| 9.18 | 2.00 | 0.00 | 5.41 | 0.02 | 0.00 | 9.20 | 2.00 | 0.00 | 5.40 | 0.02 | 0.00 |
| 9.22 | 2.00 | 0.00 | 5.39 | 0.02 | 0.00 | 9.24 | 2.00 | 0.00 | 5.38 | 0.02 | 0.00 |
| 9.26 | 2.00 | 0.00 | 5.37 | 0.02 | 0.00 | 9.28 | 2.00 | 0.00 | 5.36 | 0.02 | 0.00 |
| 9.30 | 2.00 | 0.00 | 5.35 | 0.02 | 0.00 | 9.32 | 2.00 | 0.00 | 5.34 | 0.02 | 0.00 |
| 9.34 | 2.00 | 0.00 | 5.33 | 0.02 | 0.00 | 9.36 | 2.00 | 0.00 | 5.32 | 0.02 | 0.00 |
| 9.38 | 2.00 | 0.00 | 5.31 | 0.02 | 0.00 | 9.40 | 2.00 | 0.00 | 5.30 | 0.02 | 0.00 |
| 9.42 | 2.00 | 0.00 | 5.29 | 0.02 | 0.00 | 9.44 | 2.00 | 0.00 | 5.28 | 0.02 | 0.00 |
| 9.46 | 2.00 | 0.00 | 5.27 | 0.02 | 0.00 | 9.48 | 2.00 | 0.00 | 5.26 | 0.02 | 0.00 |
| 9.50 | 2.00 | 0.00 | 5.25 | 0.02 | 0.00 | 9.52 | 2.00 | 0.00 | 5.24 | 0.02 | 0.00 |
| 9.54 | 2.00 | 0.00 | 5.23 | 0.02 | 0.00 | 9.56 | 2.00 | 0.00 | 5.22 | 0.02 | 0.00 |
| 9.58 | 2.00 | 0.00 | 5.21 | 0.02 | 0.00 | 9.60 | 2.00 | 0.00 | 5.20 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 9.62 | 2.00 | 0.00 | 5.19 | 0.02 | 0.00 | 9.64 | 2.00 | 0.00 | 5.18 | 0.02 | 0.00 |
| 9.66 | 2.00 | 0.00 | 5.17 | 0.02 | 0.00 | 9.68 | 2.00 | 0.00 | 5.16 | 0.02 | 0.00 |
| 9.70 | 2.00 | 0.00 | 5.15 | 0.02 | 0.00 | 9.72 | 2.00 | 0.00 | 5.14 | 0.02 | 0.00 |
| 9.74 | 2.00 | 0.00 | 5.13 | 0.02 | 0.00 | 9.76 | 1.26 | 0.00 | 5.12 | 0.02 | 0.00 |
| 9.78 | 1.26 | 0.00 | 5.11 | 0.02 | 0.00 | 9.80 | 1.28 | 0.00 | 5.10 | 0.02 | 0.00 |
| 9.82 | 1.32 | 0.00 | 5.09 | 0.02 | 0.00 | 9.84 | 1.35 | 0.00 | 5.08 | 0.02 | 0.00 |
| 9.86 | 1.35 | 0.00 | 5.07 | 0.02 | 0.00 | 9.88 | 1.33 | 0.00 | 5.06 | 0.02 | 0.00 |
| 9.90 | 1.32 | 0.00 | 5.05 | 0.02 | 0.00 | 9.92 | 1.31 | 0.00 | 5.04 | 0.02 | 0.00 |
| 9.94 | 1.34 | 0.00 | 5.03 | 0.02 | 0.00 | 9.96 | 1.40 | 0.00 | 5.02 | 0.02 | 0.00 |
| 9.98 | 1.44 | 0.00 | 5.01 | 0.02 | 0.00 | 10.00 | 1.32 | 0.00 | 5.00 | 0.02 | 0.00 |
| 10.02 | 1.07 | 0.00 | 4.99 | 0.02 | 0.00 | 10.04 | 1.18 | 0.00 | 4.98 | 0.02 | 0.00 |
| 10.06 | 1.26 | 0.00 | 4.97 | 0.02 | 0.00 | 10.08 | 1.31 | 0.00 | 4.96 | 0.02 | 0.00 |
| 10.10 | 1.32 | 0.00 | 4.95 | 0.02 | 0.00 | 10.12 | 1.33 | 0.00 | 4.94 | 0.02 | 0.00 |
| 10.14 | 1.36 | 0.00 | 4.93 | 0.02 | 0.00 | 10.16 | 1.37 | 0.00 | 4.92 | 0.02 | 0.00 |
| 10.18 | 1.36 | 0.00 | 4.91 | 0.02 | 0.00 | 10.20 | 1.34 | 0.00 | 4.90 | 0.02 | 0.00 |
| 10.22 | 1.33 | 0.00 | 4.89 | 0.02 | 0.00 | 10.24 | 1.37 | 0.00 | 4.88 | 0.02 | 0.00 |
| 10.26 | 1.45 | 0.00 | 4.87 | 0.02 | 0.00 | 10.28 | 1.54 | 0.00 | 4.86 | 0.02 | 0.00 |
| 10.30 | 2.00 | 0.00 | 4.85 | 0.02 | 0.00 | 10.32 | 2.00 | 0.00 | 4.84 | 0.02 | 0.00 |
| 10.34 | 2.00 | 0.00 | 4.83 | 0.02 | 0.00 | 10.36 | 2.00 | 0.00 | 4.82 | 0.02 | 0.00 |
| 10.38 | 2.00 | 0.00 | 4.81 | 0.02 | 0.00 | 10.40 | 2.00 | 0.00 | 4.80 | 0.02 | 0.00 |
| 10.42 | 2.00 | 0.00 | 4.79 | 0.02 | 0.00 | 10.44 | 2.00 | 0.00 | 4.78 | 0.02 | 0.00 |
| 10.46 | 2.00 | 0.00 | 4.77 | 0.02 | 0.00 | 10.48 | 2.00 | 0.00 | 4.76 | 0.02 | 0.00 |
| 10.50 | 2.00 | 0.00 | 4.75 | 0.02 | 0.00 | 10.52 | 2.00 | 0.00 | 4.74 | 0.02 | 0.00 |
| 10.54 | 2.00 | 0.00 | 4.73 | 0.02 | 0.00 | 10.56 | 2.00 | 0.00 | 4.72 | 0.02 | 0.00 |
| 10.58 | 2.00 | 0.00 | 4.71 | 0.02 | 0.00 | 10.60 | 2.00 | 0.00 | 4.70 | 0.02 | 0.00 |
| 10.62 | 2.00 | 0.00 | 4.69 | 0.02 | 0.00 | 10.64 | 2.00 | 0.00 | 4.68 | 0.02 | 0.00 |
| 10.66 | 2.00 | 0.00 | 4.67 | 0.02 | 0.00 | 10.68 | 2.00 | 0.00 | 4.66 | 0.02 | 0.00 |
| 10.70 | 2.00 | 0.00 | 4.65 | 0.02 | 0.00 | 10.72 | 2.00 | 0.00 | 4.64 | 0.02 | 0.00 |
| 10.74 | 2.00 | 0.00 | 4.63 | 0.02 | 0.00 | 10.76 | 2.00 | 0.00 | 4.62 | 0.02 | 0.00 |
| 10.78 | 2.00 | 0.00 | 4.61 | 0.02 | 0.00 | 10.80 | 2.00 | 0.00 | 4.60 | 0.02 | 0.00 |
| 10.82 | 2.00 | 0.00 | 4.59 | 0.02 | 0.00 | 10.84 | 2.00 | 0.00 | 4.58 | 0.02 | 0.00 |
| 10.86 | 2.00 | 0.00 | 4.57 | 0.02 | 0.00 | 10.88 | 2.00 | 0.00 | 4.56 | 0.02 | 0.00 |
| 10.90 | 2.00 | 0.00 | 4.55 | 0.02 | 0.00 | 10.92 | 2.00 | 0.00 | 4.54 | 0.02 | 0.00 |
| 10.94 | 2.00 | 0.00 | 4.53 | 0.02 | 0.00 | 10.96 | 2.00 | 0.00 | 4.52 | 0.02 | 0.00 |
| 10.98 | 2.00 | 0.00 | 4.51 | 0.02 | 0.00 | 11.00 | 2.00 | 0.00 | 4.50 | 0.02 | 0.00 |
| 11.02 | 2.00 | 0.00 | 4.49 | 0.02 | 0.00 | 11.04 | 2.00 | 0.00 | 4.48 | 0.02 | 0.00 |
| 11.06 | 2.00 | 0.00 | 4.47 | 0.02 | 0.00 | 11.08 | 2.00 | 0.00 | 4.46 | 0.02 | 0.00 |
| 11.10 | 1.32 | 0.00 | 4.45 | 0.02 | 0.00 | 11.12 | 1.27 | 0.00 | 4.44 | 0.02 | 0.00 |
| 11.14 | 1.26 | 0.00 | 4.43 | 0.02 | 0.00 | 11.16 | 1.27 | 0.00 | 4.42 | 0.02 | 0.00 |
| 11.18 | 1.31 | 0.00 | 4.41 | 0.02 | 0.00 | 11.20 | 1.35 | 0.00 | 4.40 | 0.02 | 0.00 |
| 11.22 | 2.00 | 0.00 | 4.39 | 0.02 | 0.00 | 11.24 | 2.00 | 0.00 | 4.38 | 0.02 | 0.00 |
| 11.26 | 2.00 | 0.00 | 4.37 | 0.02 | 0.00 | 11.28 | 2.00 | 0.00 | 4.36 | 0.02 | 0.00 |
| 11.30 | 2.00 | 0.00 | 4.35 | 0.02 | 0.00 | 11.32 | 2.00 | 0.00 | 4.34 | 0.02 | 0.00 |
| 11.34 | 2.00 | 0.00 | 4.33 | 0.02 | 0.00 | 11.36 | 2.00 | 0.00 | 4.32 | 0.02 | 0.00 |
| 11.38 | 2.00 | 0.00 | 4.31 | 0.02 | 0.00 | 11.40 | 2.00 | 0.00 | 4.30 | 0.02 | 0.00 |
| 11.42 | 2.00 | 0.00 | 4.29 | 0.02 | 0.00 | 11.44 | 2.00 | 0.00 | 4.28 | 0.02 | 0.00 |
| 11.46 | 2.00 | 0.00 | 4.27 | 0.02 | 0.00 | 11.48 | 2.00 | 0.00 | 4.26 | 0.02 | 0.00 |
| 11.50 | 2.00 | 0.00 | 4.25 | 0.02 | 0.00 | 11.52 | 2.00 | 0.00 | 4.24 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 11.54 | 1.51 | 0.00 | 4.23 | 0.02 | 0.00 | 11.56 | 1.54 | 0.00 | 4.22 | 0.02 | 0.00 |
| 11.58 | 2.00 | 0.00 | 4.21 | 0.02 | 0.00 | 11.60 | 2.00 | 0.00 | 4.20 | 0.02 | 0.00 |
| 11.62 | 2.00 | 0.00 | 4.19 | 0.02 | 0.00 | 11.64 | 2.00 | 0.00 | 4.18 | 0.02 | 0.00 |
| 11.66 | 2.00 | 0.00 | 4.17 | 0.02 | 0.00 | 11.68 | 2.00 | 0.00 | 4.16 | 0.02 | 0.00 |
| 11.70 | 2.00 | 0.00 | 4.15 | 0.02 | 0.00 | 11.72 | 2.00 | 0.00 | 4.14 | 0.02 | 0.00 |
| 11.74 | 2.00 | 0.00 | 4.13 | 0.02 | 0.00 | 11.76 | 1.76 | 0.00 | 4.12 | 0.02 | 0.00 |
| 11.78 | 1.72 | 0.00 | 4.11 | 0.02 | 0.00 | 11.80 | 1.74 | 0.00 | 4.10 | 0.02 | 0.00 |
| 11.82 | 1.74 | 0.00 | 4.09 | 0.02 | 0.00 | 11.84 | 1.78 | 0.00 | 4.08 | 0.02 | 0.00 |
| 11.86 | 1.79 | 0.00 | 4.07 | 0.02 | 0.00 | 11.88 | 1.84 | 0.00 | 4.06 | 0.02 | 0.00 |
| 11.90 | 1.87 | 0.00 | 4.05 | 0.02 | 0.00 | 11.92 | 1.96 | 0.00 | 4.04 | 0.02 | 0.00 |
| 11.94 | 2.00 | 0.00 | 4.03 | 0.02 | 0.00 | 11.96 | 2.00 | 0.00 | 4.02 | 0.02 | 0.00 |
| 11.98 | 2.00 | 0.00 | 4.01 | 0.02 | 0.00 | 12.00 | 2.00 | 0.00 | 4.00 | 0.02 | 0.00 |
| 12.02 | 2.00 | 0.00 | 3.99 | 0.02 | 0.00 | 12.04 | 2.00 | 0.00 | 3.98 | 0.02 | 0.00 |
| 12.06 | 2.00 | 0.00 | 3.97 | 0.02 | 0.00 | 12.08 | 2.00 | 0.00 | 3.96 | 0.02 | 0.00 |
| 12.10 | 2.00 | 0.00 | 3.95 | 0.02 | 0.00 | 12.12 | 2.00 | 0.00 | 3.94 | 0.02 | 0.00 |
| 12.14 | 2.00 | 0.00 | 3.93 | 0.02 | 0.00 | 12.16 | 2.00 | 0.00 | 3.92 | 0.02 | 0.00 |
| 12.18 | 2.00 | 0.00 | 3.91 | 0.02 | 0.00 | 12.20 | 2.00 | 0.00 | 3.90 | 0.02 | 0.00 |
| 12.22 | 2.00 | 0.00 | 3.89 | 0.02 | 0.00 | 12.24 | 2.00 | 0.00 | 3.88 | 0.02 | 0.00 |
| 12.26 | 1.49 | 0.00 | 3.87 | 0.02 | 0.00 | 12.28 | 1.59 | 0.00 | 3.86 | 0.02 | 0.00 |
| 12.30 | 1.66 | 0.00 | 3.85 | 0.02 | 0.00 | 12.32 | 2.00 | 0.00 | 3.84 | 0.02 | 0.00 |
| 12.34 | 2.00 | 0.00 | 3.83 | 0.02 | 0.00 | 12.36 | 2.00 | 0.00 | 3.82 | 0.02 | 0.00 |
| 12.38 | 2.00 | 0.00 | 3.81 | 0.02 | 0.00 | 12.40 | 2.00 | 0.00 | 3.80 | 0.02 | 0.00 |
| 12.42 | 1.63 | 0.00 | 3.79 | 0.02 | 0.00 | 12.44 | 1.79 | 0.00 | 3.78 | 0.02 | 0.00 |
| 12.46 | 1.94 | 0.00 | 3.77 | 0.02 | 0.00 | 12.48 | 2.00 | 0.00 | 3.76 | 0.02 | 0.00 |
| 12.50 | 2.00 | 0.00 | 3.75 | 0.02 | 0.00 | 12.52 | 2.00 | 0.00 | 3.74 | 0.02 | 0.00 |
| 12.54 | 2.00 | 0.00 | 3.73 | 0.02 | 0.00 | 12.56 | 1.75 | 0.00 | 3.72 | 0.02 | 0.00 |
| 12.58 | 1.63 | 0.00 | 3.71 | 0.02 | 0.00 | 12.60 | 1.55 | 0.00 | 3.70 | 0.02 | 0.00 |
| 12.62 | 1.47 | 0.00 | 3.69 | 0.02 | 0.00 | 12.64 | 1.43 | 0.00 | 3.68 | 0.02 | 0.00 |
| 12.66 | 1.43 | 0.00 | 3.67 | 0.02 | 0.00 | 12.68 | 1.48 | 0.00 | 3.66 | 0.02 | 0.00 |
| 12.70 | 1.52 | 0.00 | 3.65 | 0.02 | 0.00 | 12.72 | 1.54 | 0.00 | 3.64 | 0.02 | 0.00 |
| 12.74 | 1.54 | 0.00 | 3.63 | 0.02 | 0.00 | 12.76 | 1.51 | 0.00 | 3.62 | 0.02 | 0.00 |
| 12.78 | 1.30 | 0.00 | 3.61 | 0.02 | 0.00 | 12.80 | 1.30 | 0.00 | 3.60 | 0.02 | 0.00 |
| 12.82 | 1.29 | 0.00 | 3.59 | 0.02 | 0.00 | 12.84 | 1.47 | 0.00 | 3.58 | 0.02 | 0.00 |
| 12.86 | 1.45 | 0.00 | 3.57 | 0.02 | 0.00 | 12.88 | 1.41 | 0.00 | 3.56 | 0.02 | 0.00 |
| 12.90 | 1.22 | 0.00 | 3.55 | 0.02 | 0.00 | 12.92 | 1.24 | 0.00 | 3.54 | 0.02 | 0.00 |
| 12.94 | 1.25 | 0.00 | 3.53 | 0.02 | 0.00 | 12.96 | 1.25 | 0.00 | 3.52 | 0.02 | 0.00 |
| 12.98 | 1.21 | 0.00 | 3.51 | 0.02 | 0.00 | 13.00 | 1.15 | 0.00 | 3.50 | 0.02 | 0.00 |
| 13.02 | 1.31 | 0.00 | 3.49 | 0.02 | 0.00 | 13.04 | 1.30 | 0.00 | 3.48 | 0.02 | 0.00 |
| 13.06 | 1.30 | 0.00 | 3.47 | 0.02 | 0.00 | 13.08 | 1.32 | 0.00 | 3.46 | 0.02 | 0.00 |
| 13.10 | 2.00 | 0.00 | 3.45 | 0.02 | 0.00 | 13.12 | 2.00 | 0.00 | 3.44 | 0.02 | 0.00 |
| 13.14 | 2.00 | 0.00 | 3.43 | 0.02 | 0.00 | 13.16 | 2.00 | 0.00 | 3.42 | 0.02 | 0.00 |
| 13.18 | 2.00 | 0.00 | 3.41 | 0.02 | 0.00 | 13.20 | 2.00 | 0.00 | 3.40 | 0.02 | 0.00 |
| 13.22 | 2.00 | 0.00 | 3.39 | 0.02 | 0.00 | 13.24 | 1.46 | 0.00 | 3.38 | 0.02 | 0.00 |
| 13.26 | 1.59 | 0.00 | 3.37 | 0.02 | 0.00 | 13.28 | 1.72 | 0.00 | 3.36 | 0.02 | 0.00 |
| 13.30 | 1.83 | 0.00 | 3.35 | 0.02 | 0.00 | 13.32 | 2.00 | 0.00 | 3.34 | 0.02 | 0.00 |
| 13.34 | 1.82 | 0.00 | 3.33 | 0.02 | 0.00 | 13.36 | 1.69 | 0.00 | 3.32 | 0.02 | 0.00 |
| 13.38 | 1.68 | 0.00 | 3.31 | 0.02 | 0.00 | 13.40 | 1.88 | 0.00 | 3.30 | 0.02 | 0.00 |
| 13.42 | 2.00 | 0.00 | 3.29 | 0.02 | 0.00 | 13.44 | 2.00 | 0.00 | 3.28 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 13.46 | 2.00 | 0.00 | 3.27 | 0.02 | 0.00 | 13.48 | 2.00 | 0.00 | 3.26 | 0.02 | 0.00 |
| 13.50 | 2.00 | 0.00 | 3.25 | 0.02 | 0.00 | 13.52 | 2.00 | 0.00 | 3.24 | 0.02 | 0.00 |
| 13.54 | 2.00 | 0.00 | 3.23 | 0.02 | 0.00 | 13.56 | 2.00 | 0.00 | 3.22 | 0.02 | 0.00 |
| 13.58 | 2.00 | 0.00 | 3.21 | 0.02 | 0.00 | 13.60 | 2.00 | 0.00 | 3.20 | 0.02 | 0.00 |
| 13.62 | 2.00 | 0.00 | 3.19 | 0.02 | 0.00 | 13.64 | 2.00 | 0.00 | 3.18 | 0.02 | 0.00 |
| 13.66 | 2.00 | 0.00 | 3.17 | 0.02 | 0.00 | 13.68 | 2.00 | 0.00 | 3.16 | 0.02 | 0.00 |
| 13.70 | 2.00 | 0.00 | 3.15 | 0.02 | 0.00 | 13.72 | 2.00 | 0.00 | 3.14 | 0.02 | 0.00 |
| 13.74 | 2.00 | 0.00 | 3.13 | 0.02 | 0.00 | 13.76 | 2.00 | 0.00 | 3.12 | 0.02 | 0.00 |
| 13.78 | 2.00 | 0.00 | 3.11 | 0.02 | 0.00 | 13.80 | 2.00 | 0.00 | 3.10 | 0.02 | 0.00 |
| 13.82 | 2.00 | 0.00 | 3.09 | 0.02 | 0.00 | 13.84 | 2.00 | 0.00 | 3.08 | 0.02 | 0.00 |
| 13.86 | 2.00 | 0.00 | 3.07 | 0.02 | 0.00 | 13.88 | 2.00 | 0.00 | 3.06 | 0.02 | 0.00 |
| 13.90 | 2.00 | 0.00 | 3.05 | 0.02 | 0.00 | 13.92 | 2.00 | 0.00 | 3.04 | 0.02 | 0.00 |
| 13.94 | 2.00 | 0.00 | 3.03 | 0.02 | 0.00 | 13.96 | 2.00 | 0.00 | 3.02 | 0.02 | 0.00 |
| 13.98 | 2.00 | 0.00 | 3.01 | 0.02 | 0.00 | 14.00 | 2.00 | 0.00 | 3.00 | 0.02 | 0.00 |
| 14.02 | 2.00 | 0.00 | 2.99 | 0.02 | 0.00 | 14.04 | 2.00 | 0.00 | 2.98 | 0.02 | 0.00 |
| 14.06 | 1.40 | 0.00 | 2.97 | 0.02 | 0.00 | 14.08 | 1.33 | 0.00 | 2.96 | 0.02 | 0.00 |
| 14.10 | 1.63 | 0.00 | 2.95 | 0.02 | 0.00 | 14.12 | 2.00 | 0.00 | 2.94 | 0.02 | 0.00 |
| 14.14 | 2.00 | 0.00 | 2.93 | 0.02 | 0.00 | 14.16 | 2.00 | 0.00 | 2.92 | 0.02 | 0.00 |
| 14.18 | 2.00 | 0.00 | 2.91 | 0.02 | 0.00 | 14.20 | 2.00 | 0.00 | 2.90 | 0.02 | 0.00 |
| 14.22 | 2.00 | 0.00 | 2.89 | 0.02 | 0.00 | 14.24 | 2.00 | 0.00 | 2.88 | 0.02 | 0.00 |
| 14.26 | 2.00 | 0.00 | 2.87 | 0.02 | 0.00 | 14.28 | 2.00 | 0.00 | 2.86 | 0.02 | 0.00 |
| 14.30 | 2.00 | 0.00 | 2.85 | 0.02 | 0.00 | 14.32 | 1.95 | 0.00 | 2.84 | 0.02 | 0.00 |
| 14.34 | 2.00 | 0.00 | 2.83 | 0.02 | 0.00 | 14.36 | 2.00 | 0.00 | 2.82 | 0.02 | 0.00 |
| 14.38 | 2.00 | 0.00 | 2.81 | 0.02 | 0.00 | 14.40 | 2.00 | 0.00 | 2.80 | 0.02 | 0.00 |
| 14.42 | 2.00 | 0.00 | 2.79 | 0.02 | 0.00 | 14.44 | 2.00 | 0.00 | 2.78 | 0.02 | 0.00 |
| 14.46 | 2.00 | 0.00 | 2.77 | 0.02 | 0.00 | 14.48 | 2.00 | 0.00 | 2.76 | 0.02 | 0.00 |
| 14.50 | 2.00 | 0.00 | 2.75 | 0.02 | 0.00 | 14.52 | 1.56 | 0.00 | 2.74 | 0.02 | 0.00 |
| 14.54 | 1.62 | 0.00 | 2.73 | 0.02 | 0.00 | 14.56 | 1.96 | 0.00 | 2.72 | 0.02 | 0.00 |
| 14.58 | 2.00 | 0.00 | 2.71 | 0.02 | 0.00 | 14.60 | 2.00 | 0.00 | 2.70 | 0.02 | 0.00 |
| 14.62 | 2.00 | 0.00 | 2.69 | 0.02 | 0.00 | 14.64 | 2.00 | 0.00 | 2.68 | 0.02 | 0.00 |
| 14.66 | 2.00 | 0.00 | 2.67 | 0.02 | 0.00 | 14.68 | 2.00 | 0.00 | 2.66 | 0.02 | 0.00 |
| 14.70 | 2.00 | 0.00 | 2.65 | 0.02 | 0.00 | 14.72 | 2.00 | 0.00 | 2.64 | 0.02 | 0.00 |
| 14.74 | 2.00 | 0.00 | 2.63 | 0.02 | 0.00 | 14.76 | 2.00 | 0.00 | 2.62 | 0.02 | 0.00 |
| 14.78 | 2.00 | 0.00 | 2.61 | 0.02 | 0.00 | 14.80 | 2.00 | 0.00 | 2.60 | 0.02 | 0.00 |
| 14.82 | 2.00 | 0.00 | 2.59 | 0.02 | 0.00 | 14.84 | 2.00 | 0.00 | 2.58 | 0.02 | 0.00 |
| 14.86 | 2.00 | 0.00 | 2.57 | 0.02 | 0.00 | 14.88 | 2.00 | 0.00 | 2.56 | 0.02 | 0.00 |
| 14.90 | 2.00 | 0.00 | 2.55 | 0.02 | 0.00 | 14.92 | 2.00 | 0.00 | 2.54 | 0.02 | 0.00 |
| 14.94 | 2.00 | 0.00 | 2.53 | 0.02 | 0.00 | 14.96 | 2.00 | 0.00 | 2.52 | 0.02 | 0.00 |
| 14.98 | 2.00 | 0.00 | 2.51 | 0.02 | 0.00 | 15.00 | 2.00 | 0.00 | 2.50 | 0.02 | 0.00 |
| 15.02 | 2.00 | 0.00 | 2.49 | 0.02 | 0.00 | 15.04 | 2.00 | 0.00 | 2.48 | 0.02 | 0.00 |
| 15.06 | 2.00 | 0.00 | 2.47 | 0.02 | 0.00 | 15.08 | 2.00 | 0.00 | 2.46 | 0.02 | 0.00 |
| 15.10 | 2.00 | 0.00 | 2.45 | 0.02 | 0.00 | 15.12 | 2.00 | 0.00 | 2.44 | 0.02 | 0.00 |
| 15.14 | 2.00 | 0.00 | 2.43 | 0.02 | 0.00 | 15.16 | 2.00 | 0.00 | 2.42 | 0.02 | 0.00 |
| 15.18 | 2.00 | 0.00 | 2.41 | 0.02 | 0.00 | 15.20 | 2.00 | 0.00 | 2.40 | 0.02 | 0.00 |
| 15.22 | 2.00 | 0.00 | 2.39 | 0.02 | 0.00 | 15.24 | 2.00 | 0.00 | 2.38 | 0.02 | 0.00 |
| 15.26 | 2.00 | 0.00 | 2.37 | 0.02 | 0.00 | 15.28 | 2.00 | 0.00 | 2.36 | 0.02 | 0.00 |
| 15.30 | 2.00 | 0.00 | 2.35 | 0.02 | 0.00 | 15.32 | 2.00 | 0.00 | 2.34 | 0.02 | 0.00 |
| 15.34 | 2.00 | 0.00 | 2.33 | 0.02 | 0.00 | 15.36 | 2.00 | 0.00 | 2.32 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 15.38 | 2.00 | 0.00 | 2.31 | 0.02 | 0.00 | 15.40 | 2.00 | 0.00 | 2.30 | 0.02 | 0.00 |
| 15.42 | 2.00 | 0.00 | 2.29 | 0.02 | 0.00 | 15.44 | 2.00 | 0.00 | 2.28 | 0.02 | 0.00 |
| 15.46 | 2.00 | 0.00 | 2.27 | 0.02 | 0.00 | 15.48 | 2.00 | 0.00 | 2.26 | 0.02 | 0.00 |
| 15.50 | 2.00 | 0.00 | 2.25 | 0.02 | 0.00 | 15.52 | 2.00 | 0.00 | 2.24 | 0.02 | 0.00 |
| 15.54 | 2.00 | 0.00 | 2.23 | 0.02 | 0.00 | 15.56 | 2.00 | 0.00 | 2.22 | 0.02 | 0.00 |
| 15.58 | 2.00 | 0.00 | 2.21 | 0.02 | 0.00 | 15.60 | 2.00 | 0.00 | 2.20 | 0.02 | 0.00 |
| 15.62 | 2.00 | 0.00 | 2.19 | 0.02 | 0.00 | 15.64 | 2.00 | 0.00 | 2.18 | 0.02 | 0.00 |
| 15.66 | 2.00 | 0.00 | 2.17 | 0.02 | 0.00 | 15.68 | 2.00 | 0.00 | 2.16 | 0.02 | 0.00 |
| 15.70 | 2.00 | 0.00 | 2.15 | 0.02 | 0.00 | 15.72 | 2.00 | 0.00 | 2.14 | 0.02 | 0.00 |
| 15.74 | 2.00 | 0.00 | 2.13 | 0.02 | 0.00 | 15.76 | 2.00 | 0.00 | 2.12 | 0.02 | 0.00 |
| 15.78 | 2.00 | 0.00 | 2.11 | 0.02 | 0.00 | 15.80 | 2.00 | 0.00 | 2.10 | 0.02 | 0.00 |
| 15.82 | 2.00 | 0.00 | 2.09 | 0.02 | 0.00 | 15.84 | 2.00 | 0.00 | 2.08 | 0.02 | 0.00 |
| 15.86 | 2.00 | 0.00 | 2.07 | 0.02 | 0.00 | 15.88 | 2.00 | 0.00 | 2.06 | 0.02 | 0.00 |
| 15.90 | 2.00 | 0.00 | 2.05 | 0.02 | 0.00 | 15.92 | 2.00 | 0.00 | 2.04 | 0.02 | 0.00 |
| 15.94 | 2.00 | 0.00 | 2.03 | 0.02 | 0.00 | 15.96 | 2.00 | 0.00 | 2.02 | 0.02 | 0.00 |
| 15.98 | 2.00 | 0.00 | 2.01 | 0.02 | 0.00 | 16.00 | 2.00 | 0.00 | 2.00 | 0.02 | 0.00 |
| 16.02 | 2.00 | 0.00 | 1.99 | 0.02 | 0.00 | 16.04 | 2.00 | 0.00 | 1.98 | 0.02 | 0.00 |
| 16.06 | 2.00 | 0.00 | 1.97 | 0.02 | 0.00 | 16.08 | 2.00 | 0.00 | 1.96 | 0.02 | 0.00 |
| 16.10 | 2.00 | 0.00 | 1.95 | 0.02 | 0.00 | 16.12 | 2.00 | 0.00 | 1.94 | 0.02 | 0.00 |
| 16.14 | 2.00 | 0.00 | 1.93 | 0.02 | 0.00 | 16.16 | 2.00 | 0.00 | 1.92 | 0.02 | 0.00 |
| 16.18 | 2.00 | 0.00 | 1.91 | 0.02 | 0.00 | 16.20 | 2.00 | 0.00 | 1.90 | 0.02 | 0.00 |
| 16.22 | 2.00 | 0.00 | 1.89 | 0.02 | 0.00 | 16.24 | 2.00 | 0.00 | 1.88 | 0.02 | 0.00 |
| 16.26 | 2.00 | 0.00 | 1.87 | 0.02 | 0.00 | 16.28 | 2.00 | 0.00 | 1.86 | 0.02 | 0.00 |
| 16.30 | 2.00 | 0.00 | 1.85 | 0.02 | 0.00 | 16.32 | 2.00 | 0.00 | 1.84 | 0.02 | 0.00 |
| 16.34 | 2.00 | 0.00 | 1.83 | 0.02 | 0.00 | 16.36 | 2.00 | 0.00 | 1.82 | 0.02 | 0.00 |
| 16.38 | 2.00 | 0.00 | 1.81 | 0.02 | 0.00 | 16.40 | 2.00 | 0.00 | 1.80 | 0.02 | 0.00 |
| 16.42 | 2.00 | 0.00 | 1.79 | 0.02 | 0.00 | 16.44 | 2.00 | 0.00 | 1.78 | 0.02 | 0.00 |
| 16.46 | 2.00 | 0.00 | 1.77 | 0.02 | 0.00 | 16.48 | 2.00 | 0.00 | 1.76 | 0.02 | 0.00 |
| 16.50 | 2.00 | 0.00 | 1.75 | 0.02 | 0.00 | 16.52 | 2.00 | 0.00 | 1.74 | 0.02 | 0.00 |
| 16.54 | 1.71 | 0.00 | 1.73 | 0.02 | 0.00 | 16.56 | 1.66 | 0.00 | 1.72 | 0.02 | 0.00 |
| 16.58 | 1.67 | 0.00 | 1.71 | 0.02 | 0.00 | 16.60 | 1.67 | 0.00 | 1.70 | 0.02 | 0.00 |
| 16.62 | 1.67 | 0.00 | 1.69 | 0.02 | 0.00 | 16.64 | 1.66 | 0.00 | 1.68 | 0.02 | 0.00 |
| 16.66 | 1.64 | 0.00 | 1.67 | 0.02 | 0.00 | 16.68 | 1.64 | 0.00 | 1.66 | 0.02 | 0.00 |
| 16.70 | 1.63 | 0.00 | 1.65 | 0.02 | 0.00 | 16.72 | 1.63 | 0.00 | 1.64 | 0.02 | 0.00 |
| 16.74 | 1.62 | 0.00 | 1.63 | 0.02 | 0.00 | 16.76 | 1.61 | 0.00 | 1.62 | 0.02 | 0.00 |
| 16.78 | 1.60 | 0.00 | 1.61 | 0.02 | 0.00 | 16.80 | 1.59 | 0.00 | 1.60 | 0.02 | 0.00 |
| 16.82 | 1.60 | 0.00 | 1.59 | 0.02 | 0.00 | 16.84 | 1.64 | 0.00 | 1.58 | 0.02 | 0.00 |
| 16.86 | 1.67 | 0.00 | 1.57 | 0.02 | 0.00 | 16.88 | 1.69 | 0.00 | 1.56 | 0.02 | 0.00 |
| 16.90 | 1.69 | 0.00 | 1.55 | 0.02 | 0.00 | 16.92 | 1.68 | 0.00 | 1.54 | 0.02 | 0.00 |
| 16.94 | 1.67 | 0.00 | 1.53 | 0.02 | 0.00 | 16.96 | 1.66 | 0.00 | 1.52 | 0.02 | 0.00 |
| 16.98 | 1.67 | 0.00 | 1.51 | 0.02 | 0.00 | 17.00 | 1.68 | 0.00 | 1.50 | 0.02 | 0.00 |
| 17.02 | 1.74 | 0.00 | 1.49 | 0.02 | 0.00 | 17.04 | 1.81 | 0.00 | 1.48 | 0.02 | 0.00 |
| 17.06 | 1.91 | 0.00 | 1.47 | 0.02 | 0.00 | 17.08 | 2.00 | 0.00 | 1.46 | 0.02 | 0.00 |
| 17.10 | 2.00 | 0.00 | 1.45 | 0.02 | 0.00 | 17.12 | 2.00 | 0.00 | 1.44 | 0.02 | 0.00 |
| 17.14 | 2.00 | 0.00 | 1.43 | 0.02 | 0.00 | 17.16 | 2.00 | 0.00 | 1.42 | 0.02 | 0.00 |
| 17.18 | 2.00 | 0.00 | 1.41 | 0.02 | 0.00 | 17.20 | 2.00 | 0.00 | 1.40 | 0.02 | 0.00 |
| 17.22 | 2.00 | 0.00 | 1.39 | 0.02 | 0.00 | 17.24 | 2.00 | 0.00 | 1.38 | 0.02 | 0.00 |
| 17.26 | 2.00 | 0.00 | 1.37 | 0.02 | 0.00 | 17.28 | 2.00 | 0.00 | 1.36 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 17.30 | 2.00 | 0.00 | 1.35 | 0.02 | 0.00 | 17.32 | 2.00 | 0.00 | 1.34 | 0.02 | 0.00 |
| 17.34 | 2.00 | 0.00 | 1.33 | 0.02 | 0.00 | 17.36 | 2.00 | 0.00 | 1.32 | 0.02 | 0.00 |
| 17.38 | 2.00 | 0.00 | 1.31 | 0.02 | 0.00 | 17.40 | 2.00 | 0.00 | 1.30 | 0.02 | 0.00 |
| 17.42 | 2.00 | 0.00 | 1.29 | 0.02 | 0.00 | 17.44 | 2.00 | 0.00 | 1.28 | 0.02 | 0.00 |
| 17.46 | 2.00 | 0.00 | 1.27 | 0.02 | 0.00 | 17.48 | 2.00 | 0.00 | 1.26 | 0.02 | 0.00 |
| 17.50 | 2.00 | 0.00 | 1.25 | 0.02 | 0.00 | 17.52 | 2.00 | 0.00 | 1.24 | 0.02 | 0.00 |
| 17.54 | 2.00 | 0.00 | 1.23 | 0.02 | 0.00 | 17.56 | 2.00 | 0.00 | 1.22 | 0.02 | 0.00 |
| 17.58 | 2.00 | 0.00 | 1.21 | 0.02 | 0.00 | 17.60 | 2.00 | 0.00 | 1.20 | 0.02 | 0.00 |
| 17.62 | 2.00 | 0.00 | 1.19 | 0.02 | 0.00 | 17.64 | 2.00 | 0.00 | 1.18 | 0.02 | 0.00 |
| 17.66 | 2.00 | 0.00 | 1.17 | 0.02 | 0.00 | 17.68 | 2.00 | 0.00 | 1.16 | 0.02 | 0.00 |
| 17.70 | 2.00 | 0.00 | 1.15 | 0.02 | 0.00 | 17.72 | 2.00 | 0.00 | 1.14 | 0.02 | 0.00 |
| 17.74 | 2.00 | 0.00 | 1.13 | 0.02 | 0.00 | 17.76 | 2.00 | 0.00 | 1.12 | 0.02 | 0.00 |
| 17.78 | 2.00 | 0.00 | 1.11 | 0.02 | 0.00 | 17.80 | 2.00 | 0.00 | 1.10 | 0.02 | 0.00 |
| 17.82 | 2.00 | 0.00 | 1.09 | 0.02 | 0.00 | 17.84 | 2.00 | 0.00 | 1.08 | 0.02 | 0.00 |
| 17.86 | 2.00 | 0.00 | 1.07 | 0.02 | 0.00 | 17.88 | 2.00 | 0.00 | 1.06 | 0.02 | 0.00 |
| 17.90 | 2.00 | 0.00 | 1.05 | 0.02 | 0.00 | 17.92 | 2.00 | 0.00 | 1.04 | 0.02 | 0.00 |
| 17.94 | 2.00 | 0.00 | 1.03 | 0.02 | 0.00 | 17.96 | 2.00 | 0.00 | 1.02 | 0.02 | 0.00 |
| 17.98 | 2.00 | 0.00 | 1.01 | 0.02 | 0.00 | 18.00 | 2.00 | 0.00 | 1.00 | 0.02 | 0.00 |
| 18.02 | 2.00 | 0.00 | 0.99 | 0.02 | 0.00 | 18.04 | 2.00 | 0.00 | 0.98 | 0.02 | 0.00 |
| 18.06 | 2.00 | 0.00 | 0.97 | 0.02 | 0.00 | 18.08 | 2.00 | 0.00 | 0.96 | 0.02 | 0.00 |
| 18.10 | 2.00 | 0.00 | 0.95 | 0.02 | 0.00 | 18.12 | 2.00 | 0.00 | 0.94 | 0.02 | 0.00 |
| 18.14 | 2.00 | 0.00 | 0.93 | 0.02 | 0.00 | 18.16 | 2.00 | 0.00 | 0.92 | 0.02 | 0.00 |
| 18.18 | 2.00 | 0.00 | 0.91 | 0.02 | 0.00 | 18.20 | 2.00 | 0.00 | 0.90 | 0.02 | 0.00 |
| 18.22 | 2.00 | 0.00 | 0.89 | 0.02 | 0.00 | 18.24 | 2.00 | 0.00 | 0.88 | 0.02 | 0.00 |
| 18.26 | 2.00 | 0.00 | 0.87 | 0.02 | 0.00 | 18.28 | 2.00 | 0.00 | 0.86 | 0.02 | 0.00 |
| 18.30 | 2.00 | 0.00 | 0.85 | 0.02 | 0.00 | 18.32 | 2.00 | 0.00 | 0.84 | 0.02 | 0.00 |
| 18.34 | 2.00 | 0.00 | 0.83 | 0.02 | 0.00 | 18.36 | 2.00 | 0.00 | 0.82 | 0.02 | 0.00 |
| 18.38 | 2.00 | 0.00 | 0.81 | 0.02 | 0.00 | 18.40 | 2.00 | 0.00 | 0.80 | 0.02 | 0.00 |
| 18.42 | 2.00 | 0.00 | 0.79 | 0.02 | 0.00 | 18.44 | 2.00 | 0.00 | 0.78 | 0.02 | 0.00 |
| 18.46 | 2.00 | 0.00 | 0.77 | 0.02 | 0.00 | 18.48 | 2.00 | 0.00 | 0.76 | 0.02 | 0.00 |
| 18.50 | 2.00 | 0.00 | 0.75 | 0.02 | 0.00 | 18.52 | 2.00 | 0.00 | 0.74 | 0.02 | 0.00 |
| 18.54 | 2.00 | 0.00 | 0.73 | 0.02 | 0.00 | 18.56 | 2.00 | 0.00 | 0.72 | 0.02 | 0.00 |
| 18.58 | 2.00 | 0.00 | 0.71 | 0.02 | 0.00 | 18.60 | 2.00 | 0.00 | 0.70 | 0.02 | 0.00 |
| 18.62 | 2.00 | 0.00 | 0.69 | 0.02 | 0.00 | 18.64 | 2.00 | 0.00 | 0.68 | 0.02 | 0.00 |
| 18.66 | 2.00 | 0.00 | 0.67 | 0.02 | 0.00 | 18.68 | 2.00 | 0.00 | 0.66 | 0.02 | 0.00 |
| 18.70 | 2.00 | 0.00 | 0.65 | 0.02 | 0.00 | 18.72 | 2.00 | 0.00 | 0.64 | 0.02 | 0.00 |
| 18.74 | 2.00 | 0.00 | 0.63 | 0.02 | 0.00 | 18.76 | 2.00 | 0.00 | 0.62 | 0.02 | 0.00 |
| 18.78 | 2.00 | 0.00 | 0.61 | 0.02 | 0.00 | 18.80 | 2.00 | 0.00 | 0.60 | 0.02 | 0.00 |
| 18.82 | 2.00 | 0.00 | 0.59 | 0.02 | 0.00 | 18.84 | 2.00 | 0.00 | 0.58 | 0.02 | 0.00 |
| 18.86 | 2.00 | 0.00 | 0.57 | 0.02 | 0.00 | 18.88 | 2.00 | 0.00 | 0.56 | 0.02 | 0.00 |
| 18.90 | 2.00 | 0.00 | 0.55 | 0.02 | 0.00 | 18.92 | 2.00 | 0.00 | 0.54 | 0.02 | 0.00 |
| 18.94 | 2.00 | 0.00 | 0.53 | 0.02 | 0.00 | 18.96 | 2.00 | 0.00 | 0.52 | 0.02 | 0.00 |
| 18.98 | 2.00 | 0.00 | 0.51 | 0.02 | 0.00 | 19.00 | 2.00 | 0.00 | 0.50 | 0.02 | 0.00 |
| 19.02 | 2.00 | 0.00 | 0.49 | 0.02 | 0.00 | 19.04 | 2.00 | 0.00 | 0.48 | 0.02 | 0.00 |
| 19.06 | 2.00 | 0.00 | 0.47 | 0.02 | 0.00 | 19.08 | 2.00 | 0.00 | 0.46 | 0.02 | 0.00 |
| 19.10 | 2.00 | 0.00 | 0.45 | 0.02 | 0.00 | 19.12 | 2.00 | 0.00 | 0.44 | 0.02 | 0.00 |
| 19.14 | 2.00 | 0.00 | 0.43 | 0.02 | 0.00 | 19.16 | 2.00 | 0.00 | 0.42 | 0.02 | 0.00 |
| 19.18 | 2.00 | 0.00 | 0.41 | 0.02 | 0.00 | 19.20 | 2.00 | 0.00 | 0.40 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 19.22 | 2.00 | 0.00 | 0.39 | 0.02 | 0.00 | 19.24 | 2.00 | 0.00 | 0.38 | 0.02 | 0.00 |
| 19.26 | 2.00 | 0.00 | 0.37 | 0.02 | 0.00 | 19.28 | 2.00 | 0.00 | 0.36 | 0.02 | 0.00 |
| 19.30 | 2.00 | 0.00 | 0.35 | 0.02 | 0.00 | 19.32 | 2.00 | 0.00 | 0.34 | 0.02 | 0.00 |
| 19.34 | 2.00 | 0.00 | 0.33 | 0.02 | 0.00 | 19.36 | 2.00 | 0.00 | 0.32 | 0.02 | 0.00 |
| 19.38 | 1.82 | 0.00 | 0.31 | 0.02 | 0.00 | 19.40 | 1.79 | 0.00 | 0.30 | 0.02 | 0.00 |
| 19.42 | 1.75 | 0.00 | 0.29 | 0.02 | 0.00 | 19.44 | 1.75 | 0.00 | 0.28 | 0.02 | 0.00 |
| 19.46 | 1.78 | 0.00 | 0.27 | 0.02 | 0.00 | 19.48 | 2.00 | 0.00 | 0.26 | 0.02 | 0.00 |
| 19.50 | 2.00 | 0.00 | 0.25 | 0.02 | 0.00 | 19.52 | 2.00 | 0.00 | 0.24 | 0.02 | 0.00 |
| 19.54 | 2.00 | 0.00 | 0.23 | 0.02 | 0.00 | 19.56 | 2.00 | 0.00 | 0.22 | 0.02 | 0.00 |
| 19.58 | 1.72 | 0.00 | 0.21 | 0.02 | 0.00 | 19.60 | 1.78 | 0.00 | 0.20 | 0.02 | 0.00 |
| 19.62 | 2.00 | 0.00 | 0.19 | 0.02 | 0.00 | 19.64 | 2.00 | 0.00 | 0.18 | 0.02 | 0.00 |
| 19.66 | 2.00 | 0.00 | 0.17 | 0.02 | 0.00 | 19.68 | 2.00 | 0.00 | 0.16 | 0.02 | 0.00 |
| 19.70 | 2.00 | 0.00 | 0.15 | 0.02 | 0.00 | 19.72 | 2.00 | 0.00 | 0.14 | 0.02 | 0.00 |
| 19.74 | 2.00 | 0.00 | 0.13 | 0.02 | 0.00 | 19.76 | 2.00 | 0.00 | 0.12 | 0.02 | 0.00 |
| 19.78 | 2.00 | 0.00 | 0.11 | 0.02 | 0.00 | 19.80 | 2.00 | 0.00 | 0.10 | 0.02 | 0.00 |
| 19.82 | 2.00 | 0.00 | 0.09 | 0.02 | 0.00 | 19.84 | 2.00 | 0.00 | 0.08 | 0.02 | 0.00 |
| 19.86 | 2.00 | 0.00 | 0.07 | 0.02 | 0.00 | 19.88 | 2.00 | 0.00 | 0.06 | 0.02 | 0.00 |
| 19.90 | 2.00 | 0.00 | 0.05 | 0.02 | 0.00 | | | | | | |

Overall liquefaction potential: 0.00

LPI = 0.00 - Liquefaction risk very low
 LPI between 0.00 and 5.00 - Liquefaction risk low
 LPI between 5.00 and 15.00 - Liquefaction risk high
 LPI > 15.00 - Liquefaction risk very high

Abbreviations

FS: Calculated factor of safety for test point
 F_L: 1 - FS
 w_z: Function value of the extend of soil liquefaction according to depth
 d_z: Layer thickness (m)
 LPI: Liquefaction potential index value for test point

LIQUEFACTION ANALYSIS REPORT

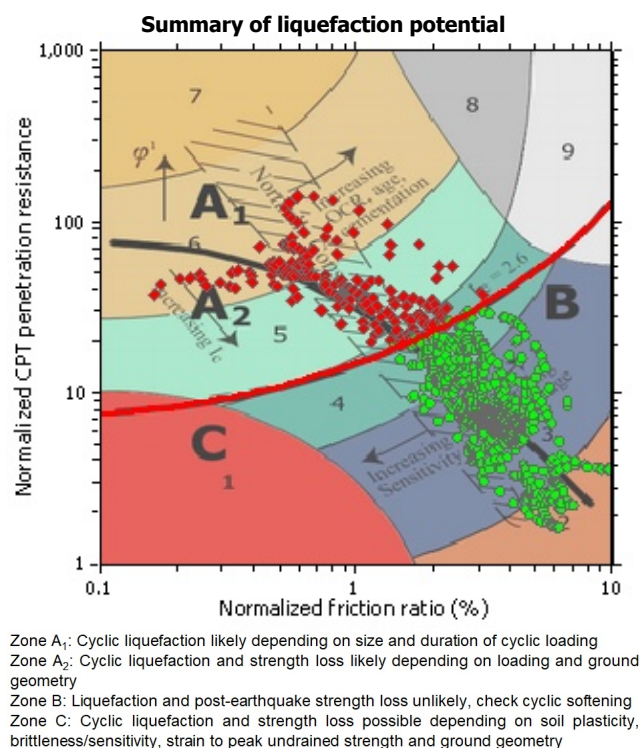
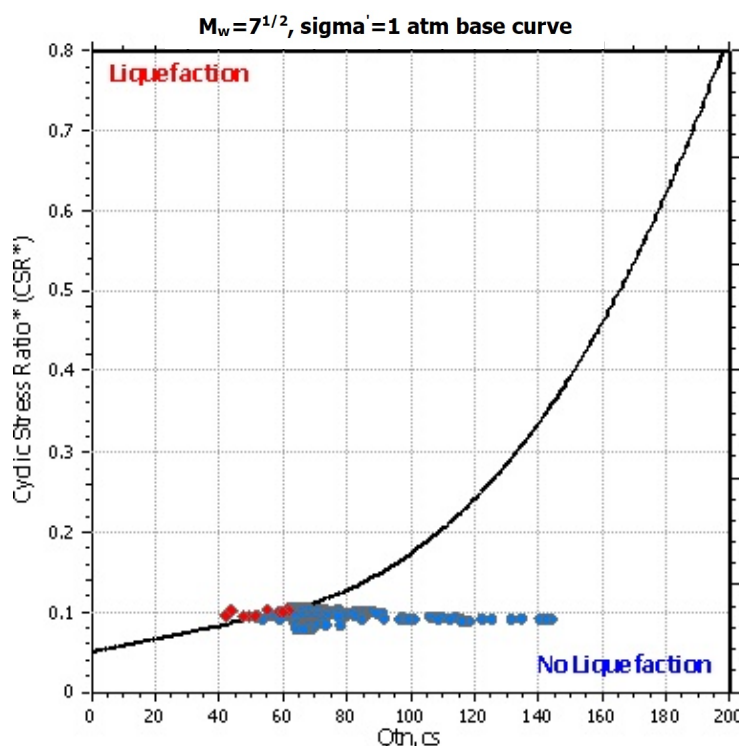
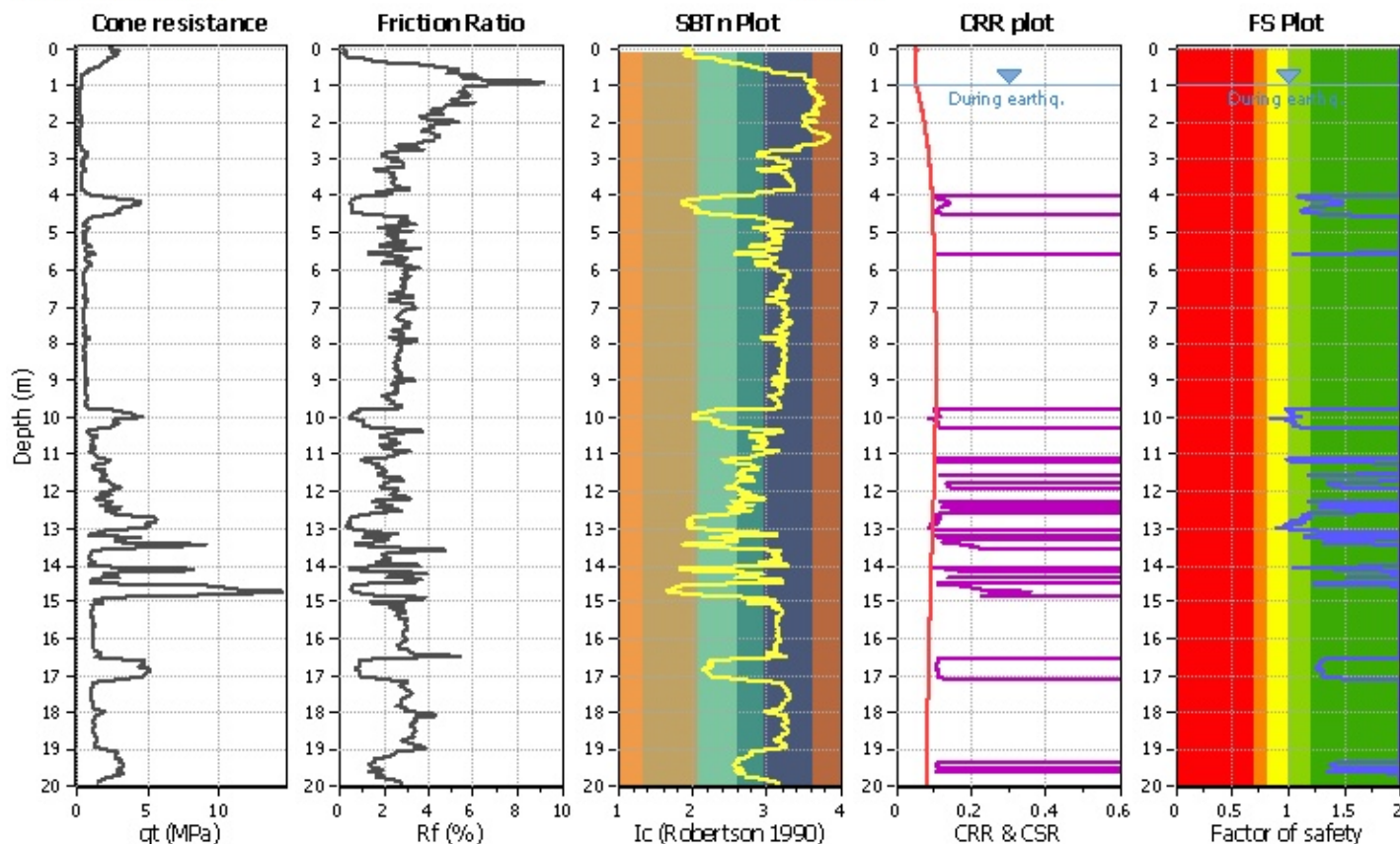
Project title :

Location :

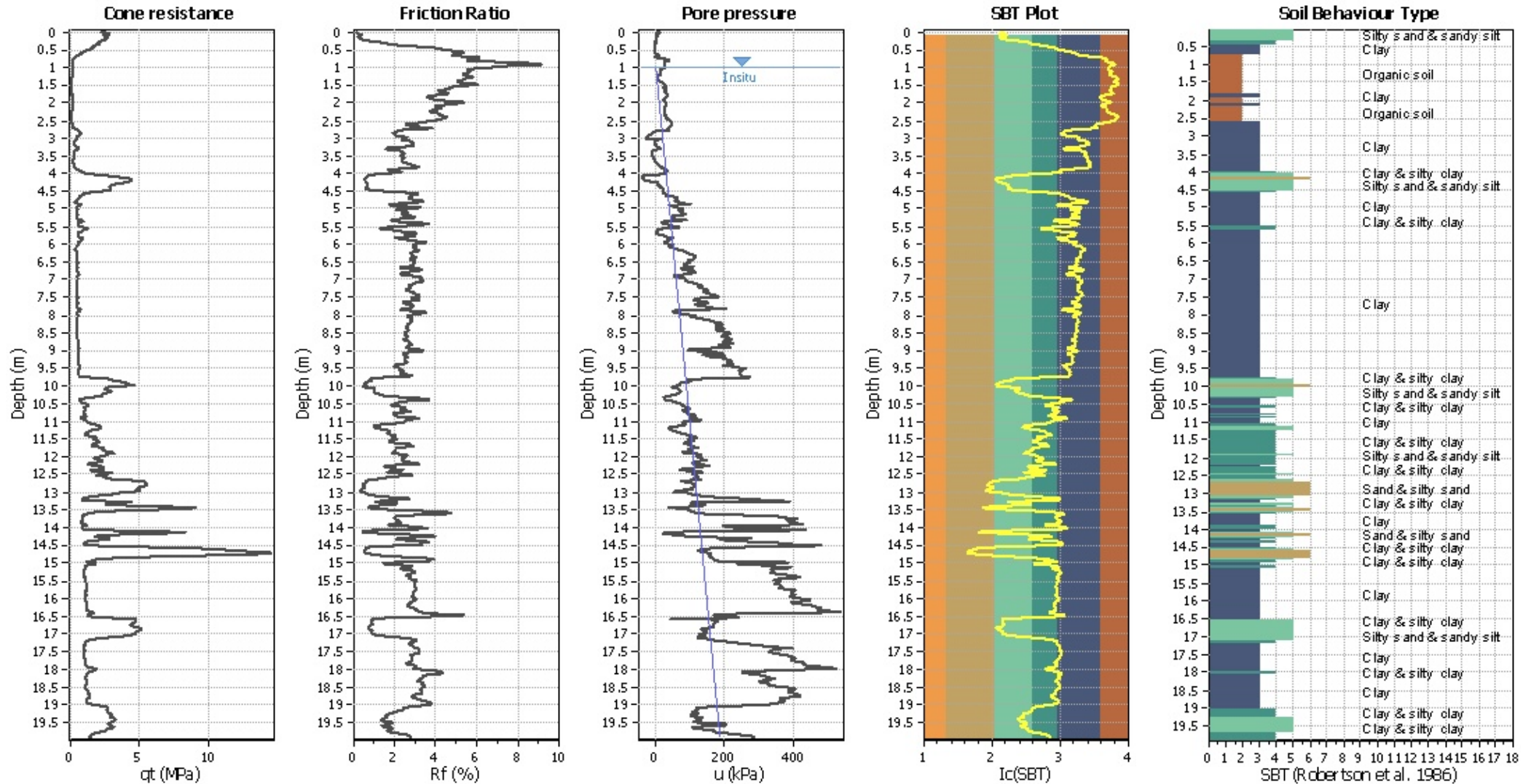
CPT file : CPTU2

Input parameters and analysis data

| | | | | | | | |
|------------------------------|-------------------|---------------------------|--------------|-------------------------|-----|----------------------|--------------|
| Analysis method: | NCEER (1998) | G.W.T. (in-situ): | 1.00 m | Use fill: | No | Clay like behavior | |
| Fines correction method: | NCEER (1998) | G.W.T. (earthq.): | 1.00 m | Fill height: | N/A | applied: | Sands only |
| Points to test: | Based on Ic value | Average results interval: | 3 | Fill weight: | N/A | Limit depth applied: | No |
| Earthquake magnitude M_w : | 5.50 | Ic cut-off value: | 2.60 | Trans. detect. applied: | No | Limit depth: | N/A |
| Peak ground acceleration: | 0.17 | Unit weight calculation: | Based on SBT | K_0 applied: | Yes | MSF method: | Method based |



CPT basic interpretation plo



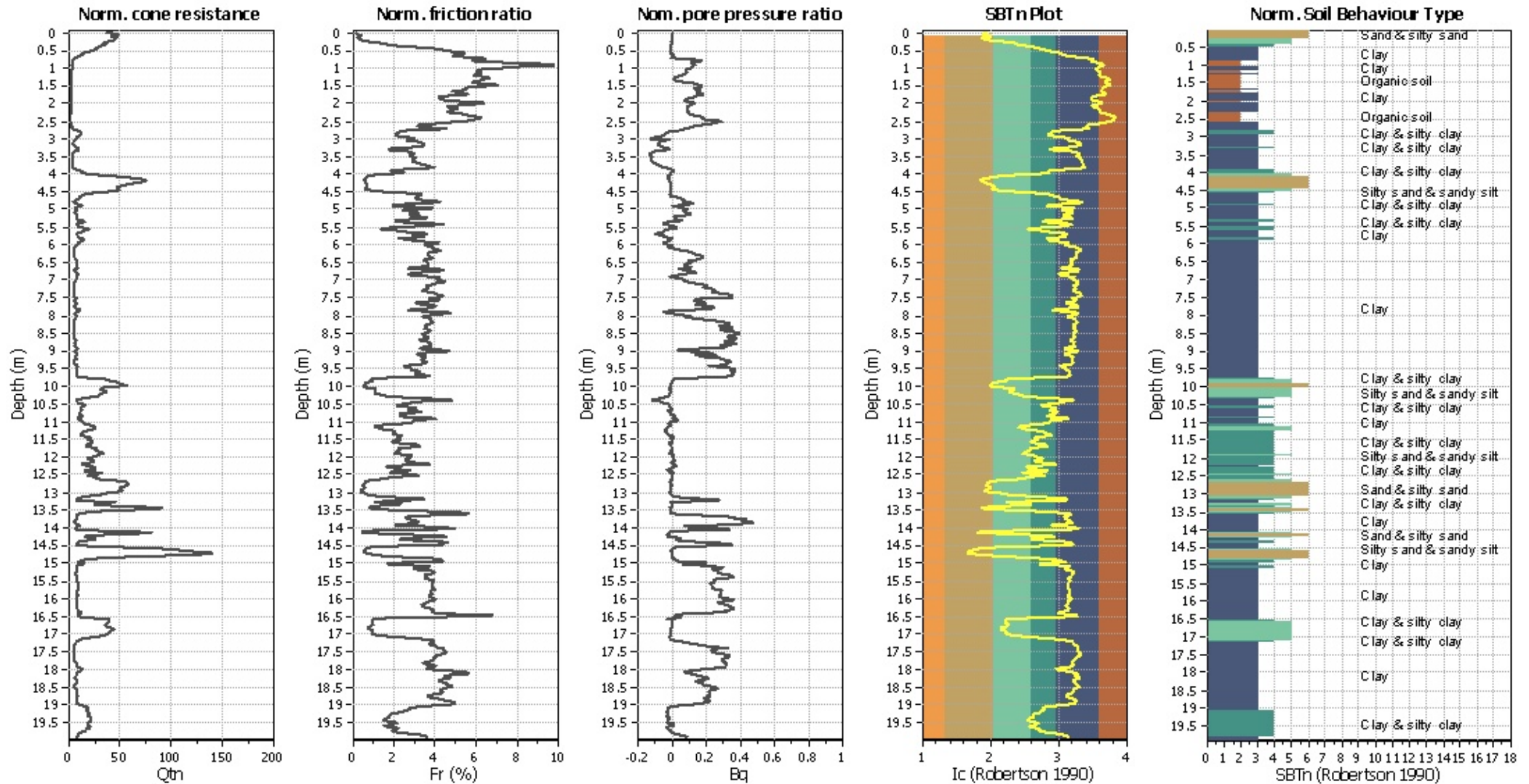
Input parameters and analysis data

| | | | | | |
|---------------------------------------|-------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K ₀ applied: | Yes |
| Earthquake magnitude M _w : | 5.50 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

SBT legend

| | | |
|---------------------------|-----------------------------|----------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty | 7. Gravely sand to sand |
| 2. Organic material | 5. Silty sand to sandy silt | 8. Very stiff sand to |
| 3. Clay to silty clay | 6. Clean sand to silty sand | 9. Very stiff fine grained |

CPT basic interpretation plots (normaliz



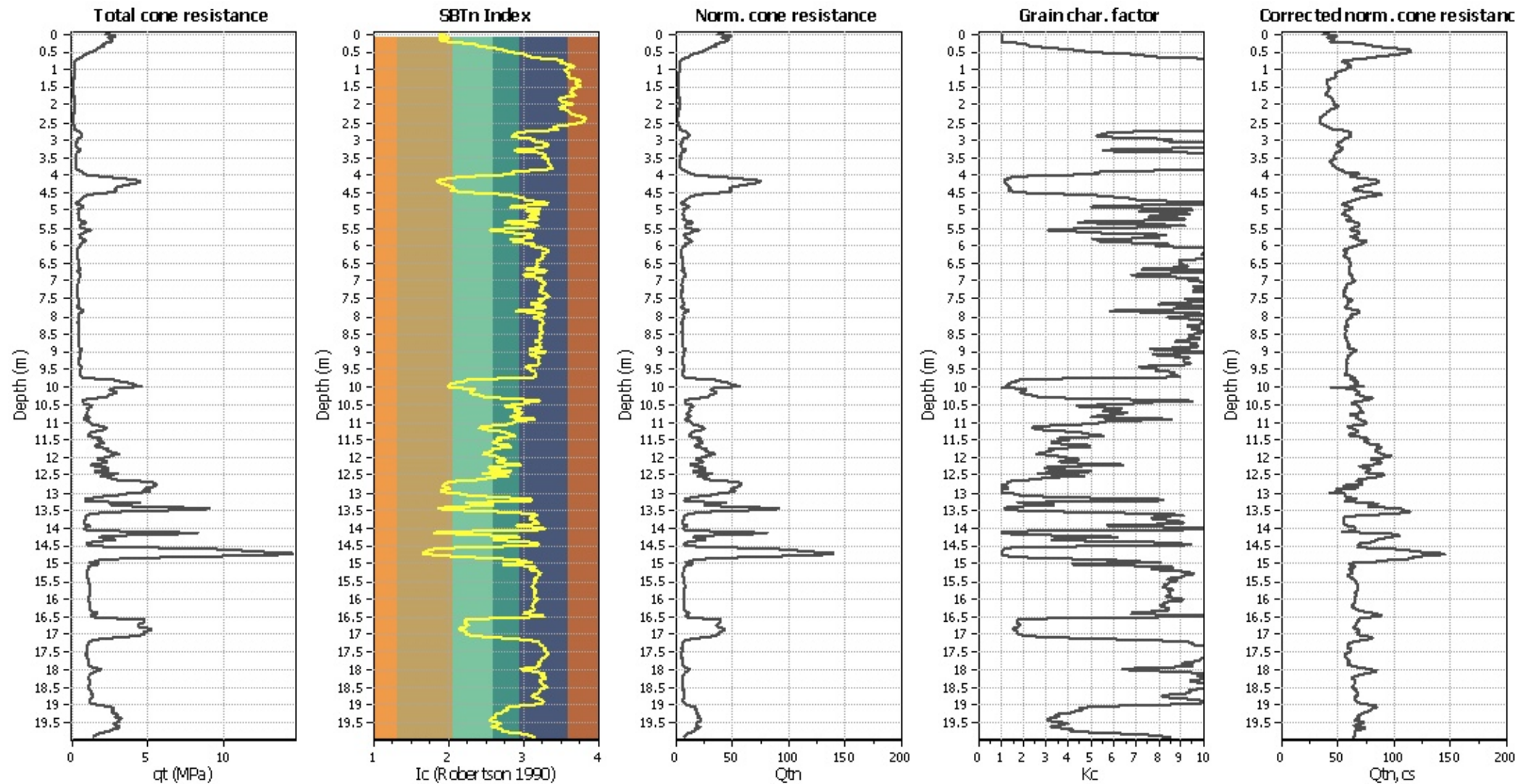
Input parameters and analysis data

| | | | | | |
|---------------------------------------|-------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K ₀ applied: | Yes |
| Earthquake magnitude M _w : | 5.50 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

SBTn legend

| | | |
|---------------------------|-----------------------------|----------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty | 7. Gravely sand to sand |
| 2. Organic material | 5. Silty sand to sandy silt | 8. Very stiff sand to |
| 3. Clay to silty clay | 6. Clean sand to silty sand | 9. Very stiff fine grained |

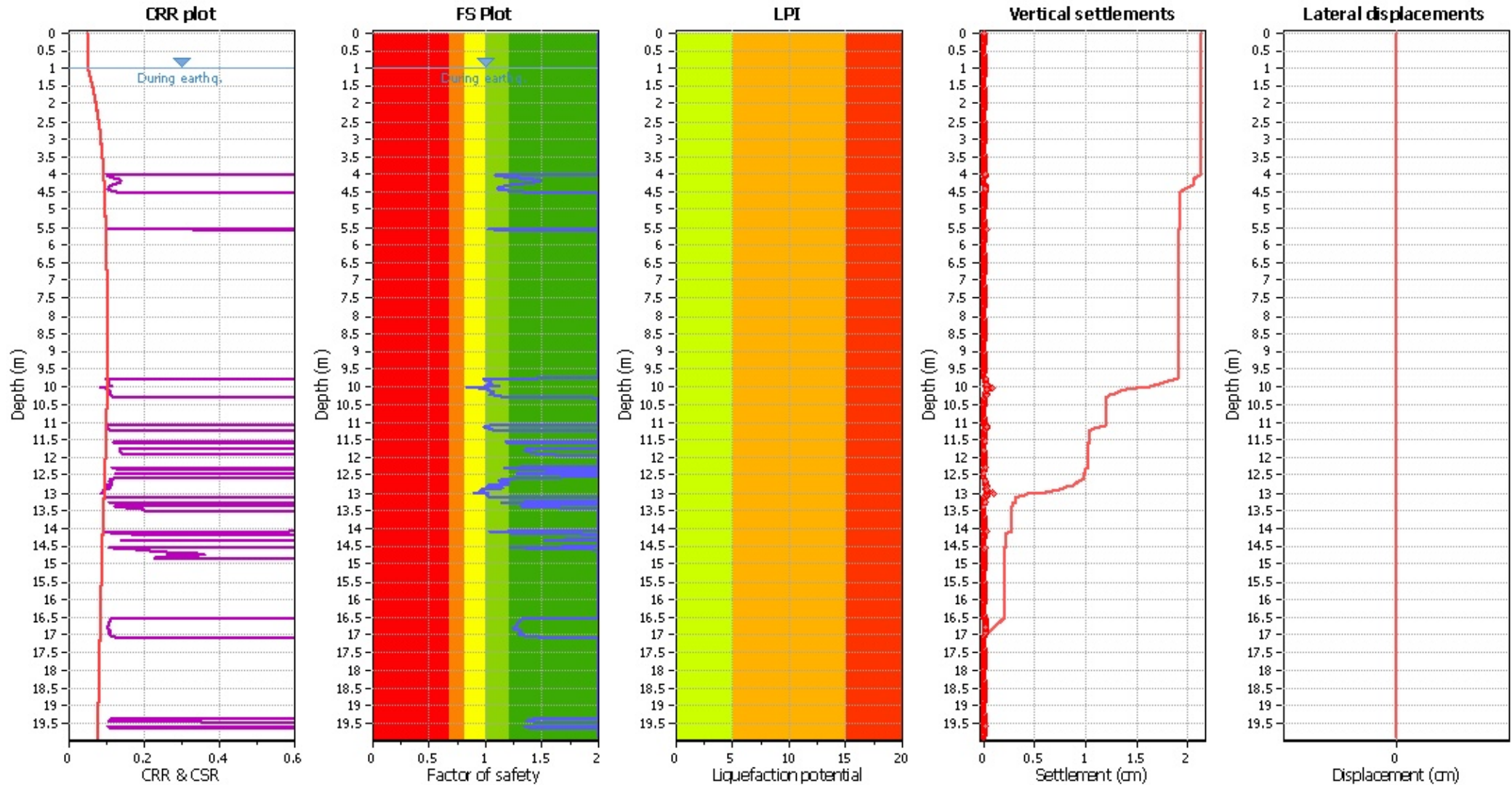
Liquefaction analysis overall plots (intermediate res)



Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_{α} applied: | Yes |
| Earthquake magnitude M_w : | 5.50 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

Liquefaction analysis overall plot



Input parameters and analysis data

| | | | | | |
|--------------------------------|-------------------|---------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (earthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 5.50 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

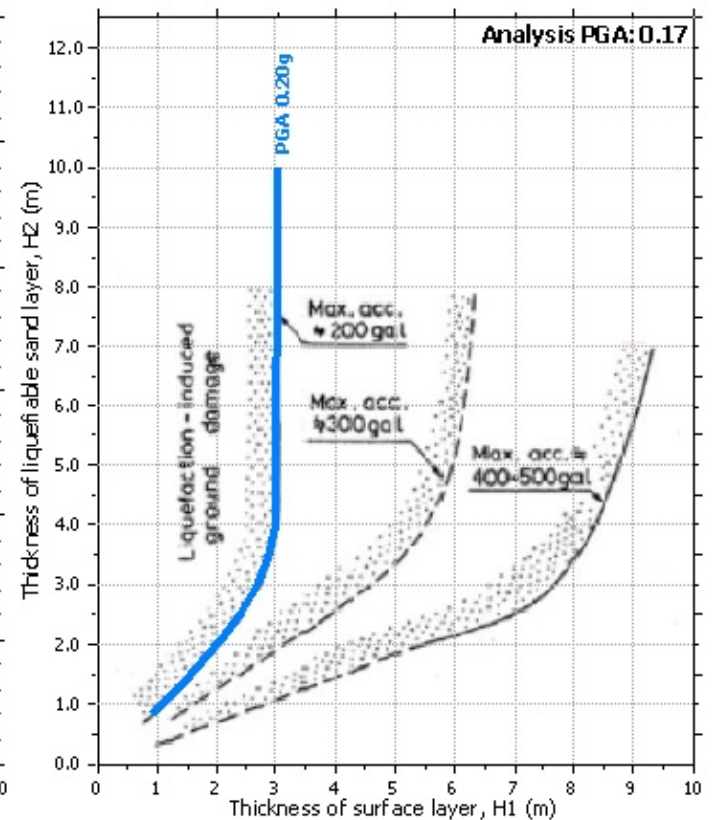
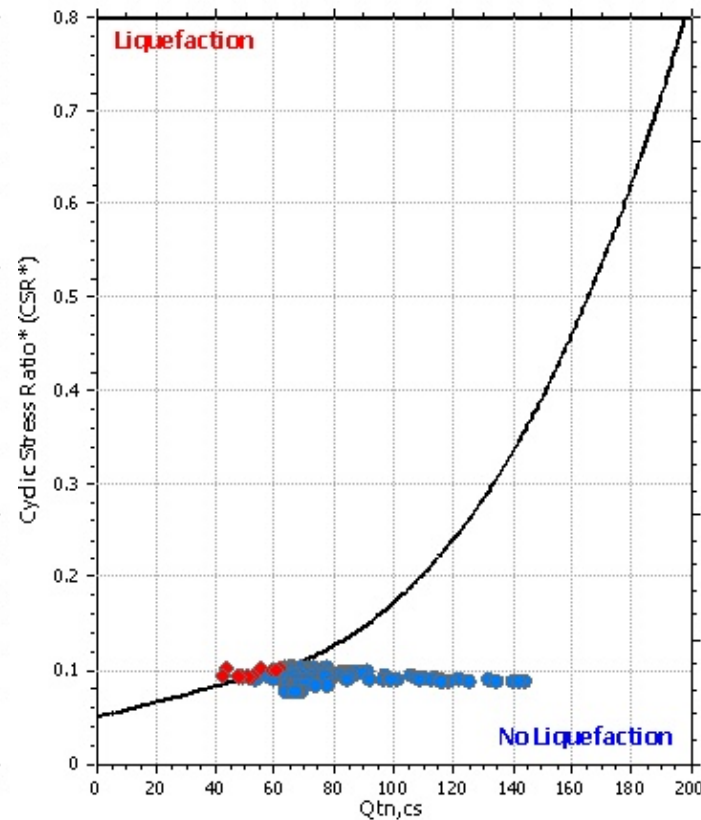
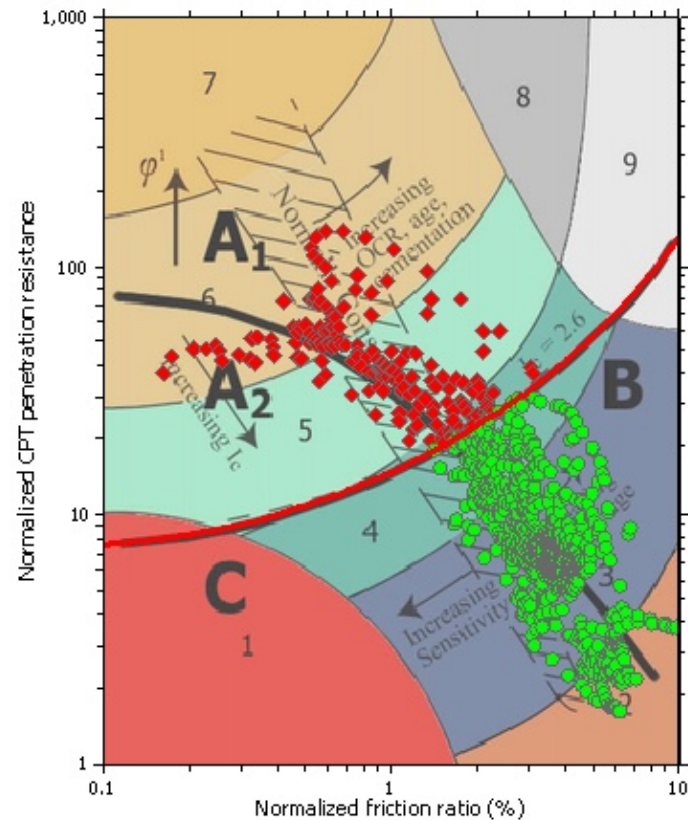
F.S. color scheme

| | |
|---|---|
| ■ | Almost certain it will liquefy |
| ■ | Very likely to liquefy |
| ■ | Liquefaction and no liq. are equally likely |
| ■ | Unlike to liquefy |
| ■ | Almost certain it will not liquefy |

LPI color scheme

| | |
|---------------------------------------|----------------|
| ■ | Very high risk |
| ■ | High risk |
| ■ | Low risk |

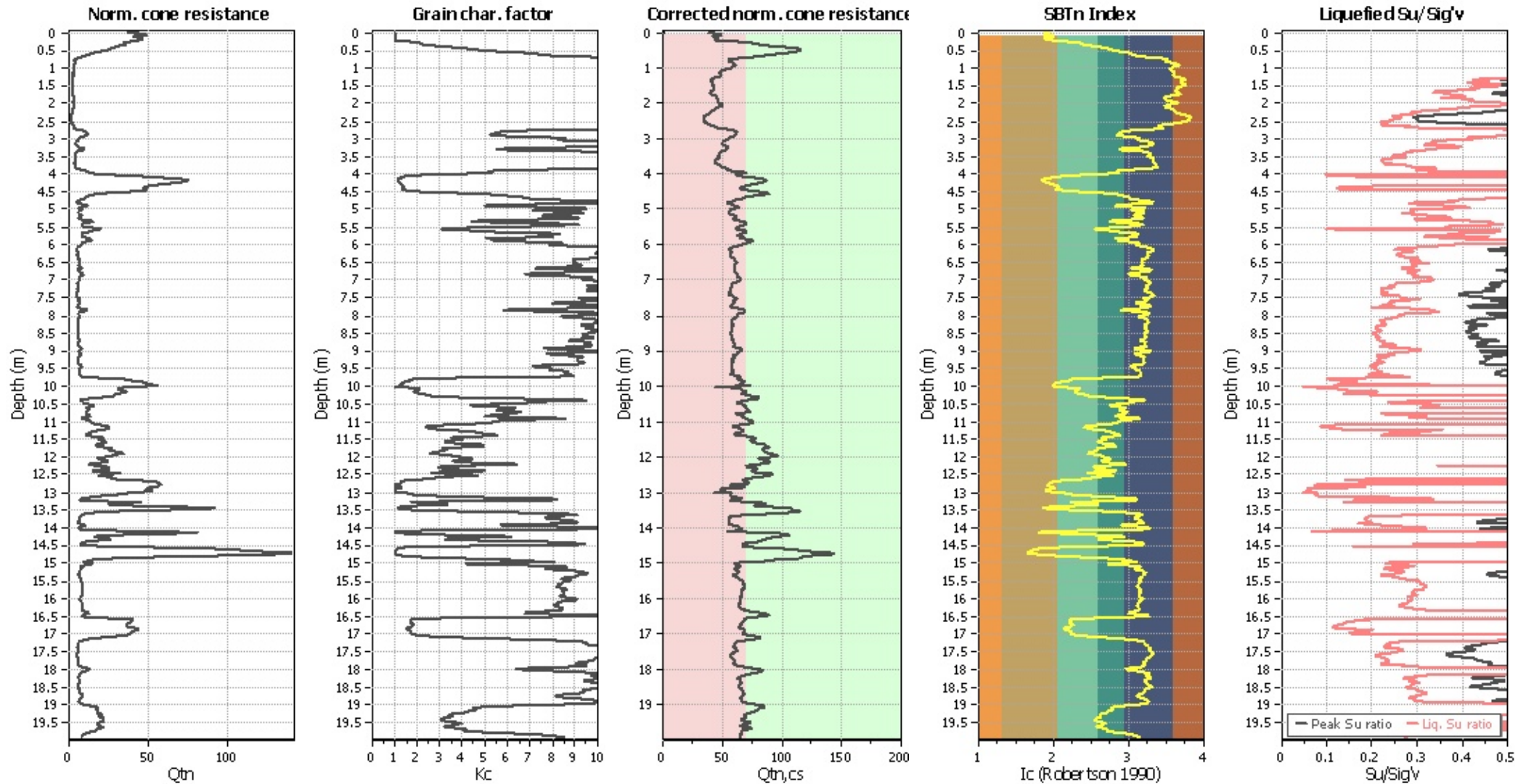
Liquefaction analysis summary plo



Input parameters and analysis data

| | | | | | |
|---------------------------------------|-------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K _o applied: | Yes |
| Earthquake magnitude M _w : | 5.50 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

Check for strength loss plots (Robertson (2010))



Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 5.50 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

| :: Liquefaction Potential Index calculation data :: | | | | | | | | | | | |
|---|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
| 0.02 | 2.00 | 0.00 | 9.99 | 0.02 | 0.00 | 0.04 | 2.00 | 0.00 | 9.98 | 0.02 | 0.00 |
| 0.06 | 2.00 | 0.00 | 9.97 | 0.02 | 0.00 | 0.08 | 2.00 | 0.00 | 9.96 | 0.02 | 0.00 |
| 0.10 | 2.00 | 0.00 | 9.95 | 0.02 | 0.00 | 0.12 | 2.00 | 0.00 | 9.94 | 0.02 | 0.00 |
| 0.14 | 2.00 | 0.00 | 9.93 | 0.02 | 0.00 | 0.16 | 2.00 | 0.00 | 9.92 | 0.02 | 0.00 |
| 0.18 | 2.00 | 0.00 | 9.91 | 0.02 | 0.00 | 0.20 | 2.00 | 0.00 | 9.90 | 0.02 | 0.00 |
| 0.22 | 2.00 | 0.00 | 9.89 | 0.02 | 0.00 | 0.24 | 2.00 | 0.00 | 9.88 | 0.02 | 0.00 |
| 0.26 | 2.00 | 0.00 | 9.87 | 0.02 | 0.00 | 0.28 | 2.00 | 0.00 | 9.86 | 0.02 | 0.00 |
| 0.30 | 2.00 | 0.00 | 9.85 | 0.02 | 0.00 | 0.32 | 2.00 | 0.00 | 9.84 | 0.02 | 0.00 |
| 0.34 | 2.00 | 0.00 | 9.83 | 0.02 | 0.00 | 0.36 | 2.00 | 0.00 | 9.82 | 0.02 | 0.00 |
| 0.38 | 2.00 | 0.00 | 9.81 | 0.02 | 0.00 | 0.40 | 2.00 | 0.00 | 9.80 | 0.02 | 0.00 |
| 0.42 | 2.00 | 0.00 | 9.79 | 0.02 | 0.00 | 0.44 | 2.00 | 0.00 | 9.78 | 0.02 | 0.00 |
| 0.46 | 2.00 | 0.00 | 9.77 | 0.02 | 0.00 | 0.48 | 2.00 | 0.00 | 9.76 | 0.02 | 0.00 |
| 0.50 | 2.00 | 0.00 | 9.75 | 0.02 | 0.00 | 0.52 | 2.00 | 0.00 | 9.74 | 0.02 | 0.00 |
| 0.54 | 2.00 | 0.00 | 9.73 | 0.02 | 0.00 | 0.56 | 2.00 | 0.00 | 9.72 | 0.02 | 0.00 |
| 0.58 | 2.00 | 0.00 | 9.71 | 0.02 | 0.00 | 0.60 | 2.00 | 0.00 | 9.70 | 0.02 | 0.00 |
| 0.62 | 2.00 | 0.00 | 9.69 | 0.02 | 0.00 | 0.64 | 2.00 | 0.00 | 9.68 | 0.02 | 0.00 |
| 0.66 | 2.00 | 0.00 | 9.67 | 0.02 | 0.00 | 0.68 | 2.00 | 0.00 | 9.66 | 0.02 | 0.00 |
| 0.70 | 2.00 | 0.00 | 9.65 | 0.02 | 0.00 | 0.72 | 2.00 | 0.00 | 9.64 | 0.02 | 0.00 |
| 0.74 | 2.00 | 0.00 | 9.63 | 0.02 | 0.00 | 0.76 | 2.00 | 0.00 | 9.62 | 0.02 | 0.00 |
| 0.78 | 2.00 | 0.00 | 9.61 | 0.02 | 0.00 | 0.80 | 2.00 | 0.00 | 9.60 | 0.02 | 0.00 |
| 0.82 | 2.00 | 0.00 | 9.59 | 0.02 | 0.00 | 0.84 | 2.00 | 0.00 | 9.58 | 0.02 | 0.00 |
| 0.86 | 2.00 | 0.00 | 9.57 | 0.02 | 0.00 | 0.88 | 2.00 | 0.00 | 9.56 | 0.02 | 0.00 |
| 0.90 | 2.00 | 0.00 | 9.55 | 0.02 | 0.00 | 0.92 | 2.00 | 0.00 | 9.54 | 0.02 | 0.00 |
| 0.94 | 2.00 | 0.00 | 9.53 | 0.02 | 0.00 | 0.96 | 2.00 | 0.00 | 9.52 | 0.02 | 0.00 |
| 0.98 | 2.00 | 0.00 | 9.51 | 0.02 | 0.00 | 1.00 | 2.00 | 0.00 | 9.50 | 0.02 | 0.00 |
| 1.02 | 2.00 | 0.00 | 9.49 | 0.02 | 0.00 | 1.04 | 2.00 | 0.00 | 9.48 | 0.02 | 0.00 |
| 1.06 | 2.00 | 0.00 | 9.47 | 0.02 | 0.00 | 1.08 | 2.00 | 0.00 | 9.46 | 0.02 | 0.00 |
| 1.10 | 2.00 | 0.00 | 9.45 | 0.02 | 0.00 | 1.12 | 2.00 | 0.00 | 9.44 | 0.02 | 0.00 |
| 1.14 | 2.00 | 0.00 | 9.43 | 0.02 | 0.00 | 1.16 | 2.00 | 0.00 | 9.42 | 0.02 | 0.00 |
| 1.18 | 2.00 | 0.00 | 9.41 | 0.02 | 0.00 | 1.20 | 2.00 | 0.00 | 9.40 | 0.02 | 0.00 |
| 1.22 | 2.00 | 0.00 | 9.39 | 0.02 | 0.00 | 1.24 | 2.00 | 0.00 | 9.38 | 0.02 | 0.00 |
| 1.26 | 2.00 | 0.00 | 9.37 | 0.02 | 0.00 | 1.28 | 2.00 | 0.00 | 9.36 | 0.02 | 0.00 |
| 1.30 | 2.00 | 0.00 | 9.35 | 0.02 | 0.00 | 1.32 | 2.00 | 0.00 | 9.34 | 0.02 | 0.00 |
| 1.34 | 2.00 | 0.00 | 9.33 | 0.02 | 0.00 | 1.36 | 2.00 | 0.00 | 9.32 | 0.02 | 0.00 |
| 1.38 | 2.00 | 0.00 | 9.31 | 0.02 | 0.00 | 1.40 | 2.00 | 0.00 | 9.30 | 0.02 | 0.00 |
| 1.42 | 2.00 | 0.00 | 9.29 | 0.02 | 0.00 | 1.44 | 2.00 | 0.00 | 9.28 | 0.02 | 0.00 |
| 1.46 | 2.00 | 0.00 | 9.27 | 0.02 | 0.00 | 1.48 | 2.00 | 0.00 | 9.26 | 0.02 | 0.00 |
| 1.50 | 2.00 | 0.00 | 9.25 | 0.02 | 0.00 | 1.52 | 2.00 | 0.00 | 9.24 | 0.02 | 0.00 |
| 1.54 | 2.00 | 0.00 | 9.23 | 0.02 | 0.00 | 1.56 | 2.00 | 0.00 | 9.22 | 0.02 | 0.00 |
| 1.58 | 2.00 | 0.00 | 9.21 | 0.02 | 0.00 | 1.60 | 2.00 | 0.00 | 9.20 | 0.02 | 0.00 |
| 1.62 | 2.00 | 0.00 | 9.19 | 0.02 | 0.00 | 1.64 | 2.00 | 0.00 | 9.18 | 0.02 | 0.00 |
| 1.66 | 2.00 | 0.00 | 9.17 | 0.02 | 0.00 | 1.68 | 2.00 | 0.00 | 9.16 | 0.02 | 0.00 |
| 1.70 | 2.00 | 0.00 | 9.15 | 0.02 | 0.00 | 1.72 | 2.00 | 0.00 | 9.14 | 0.02 | 0.00 |
| 1.74 | 2.00 | 0.00 | 9.13 | 0.02 | 0.00 | 1.76 | 2.00 | 0.00 | 9.12 | 0.02 | 0.00 |
| 1.78 | 2.00 | 0.00 | 9.11 | 0.02 | 0.00 | 1.80 | 2.00 | 0.00 | 9.10 | 0.02 | 0.00 |
| 1.82 | 2.00 | 0.00 | 9.09 | 0.02 | 0.00 | 1.84 | 2.00 | 0.00 | 9.08 | 0.02 | 0.00 |
| 1.86 | 2.00 | 0.00 | 9.07 | 0.02 | 0.00 | 1.88 | 2.00 | 0.00 | 9.06 | 0.02 | 0.00 |
| 1.90 | 2.00 | 0.00 | 9.05 | 0.02 | 0.00 | 1.92 | 2.00 | 0.00 | 9.04 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 1.94 | 2.00 | 0.00 | 9.03 | 0.02 | 0.00 | 1.96 | 2.00 | 0.00 | 9.02 | 0.02 | 0.00 |
| 1.98 | 2.00 | 0.00 | 9.01 | 0.02 | 0.00 | 2.00 | 2.00 | 0.00 | 9.00 | 0.02 | 0.00 |
| 2.02 | 2.00 | 0.00 | 8.99 | 0.02 | 0.00 | 2.04 | 2.00 | 0.00 | 8.98 | 0.02 | 0.00 |
| 2.06 | 2.00 | 0.00 | 8.97 | 0.02 | 0.00 | 2.08 | 2.00 | 0.00 | 8.96 | 0.02 | 0.00 |
| 2.10 | 2.00 | 0.00 | 8.95 | 0.02 | 0.00 | 2.12 | 2.00 | 0.00 | 8.94 | 0.02 | 0.00 |
| 2.14 | 2.00 | 0.00 | 8.93 | 0.02 | 0.00 | 2.16 | 2.00 | 0.00 | 8.92 | 0.02 | 0.00 |
| 2.18 | 2.00 | 0.00 | 8.91 | 0.02 | 0.00 | 2.20 | 2.00 | 0.00 | 8.90 | 0.02 | 0.00 |
| 2.22 | 2.00 | 0.00 | 8.89 | 0.02 | 0.00 | 2.24 | 2.00 | 0.00 | 8.88 | 0.02 | 0.00 |
| 2.26 | 2.00 | 0.00 | 8.87 | 0.02 | 0.00 | 2.28 | 2.00 | 0.00 | 8.86 | 0.02 | 0.00 |
| 2.30 | 2.00 | 0.00 | 8.85 | 0.02 | 0.00 | 2.32 | 2.00 | 0.00 | 8.84 | 0.02 | 0.00 |
| 2.34 | 2.00 | 0.00 | 8.83 | 0.02 | 0.00 | 2.36 | 2.00 | 0.00 | 8.82 | 0.02 | 0.00 |
| 2.38 | 2.00 | 0.00 | 8.81 | 0.02 | 0.00 | 2.40 | 2.00 | 0.00 | 8.80 | 0.02 | 0.00 |
| 2.42 | 2.00 | 0.00 | 8.79 | 0.02 | 0.00 | 2.44 | 2.00 | 0.00 | 8.78 | 0.02 | 0.00 |
| 2.46 | 2.00 | 0.00 | 8.77 | 0.02 | 0.00 | 2.48 | 2.00 | 0.00 | 8.76 | 0.02 | 0.00 |
| 2.50 | 2.00 | 0.00 | 8.75 | 0.02 | 0.00 | 2.52 | 2.00 | 0.00 | 8.74 | 0.02 | 0.00 |
| 2.54 | 2.00 | 0.00 | 8.73 | 0.02 | 0.00 | 2.56 | 2.00 | 0.00 | 8.72 | 0.02 | 0.00 |
| 2.58 | 2.00 | 0.00 | 8.71 | 0.02 | 0.00 | 2.60 | 2.00 | 0.00 | 8.70 | 0.02 | 0.00 |
| 2.62 | 2.00 | 0.00 | 8.69 | 0.02 | 0.00 | 2.64 | 2.00 | 0.00 | 8.68 | 0.02 | 0.00 |
| 2.66 | 2.00 | 0.00 | 8.67 | 0.02 | 0.00 | 2.68 | 2.00 | 0.00 | 8.66 | 0.02 | 0.00 |
| 2.70 | 2.00 | 0.00 | 8.65 | 0.02 | 0.00 | 2.72 | 2.00 | 0.00 | 8.64 | 0.02 | 0.00 |
| 2.74 | 2.00 | 0.00 | 8.63 | 0.02 | 0.00 | 2.76 | 2.00 | 0.00 | 8.62 | 0.02 | 0.00 |
| 2.78 | 2.00 | 0.00 | 8.61 | 0.02 | 0.00 | 2.80 | 2.00 | 0.00 | 8.60 | 0.02 | 0.00 |
| 2.82 | 2.00 | 0.00 | 8.59 | 0.02 | 0.00 | 2.84 | 2.00 | 0.00 | 8.58 | 0.02 | 0.00 |
| 2.86 | 2.00 | 0.00 | 8.57 | 0.02 | 0.00 | 2.88 | 2.00 | 0.00 | 8.56 | 0.02 | 0.00 |
| 2.90 | 2.00 | 0.00 | 8.55 | 0.02 | 0.00 | 2.92 | 2.00 | 0.00 | 8.54 | 0.02 | 0.00 |
| 2.94 | 2.00 | 0.00 | 8.53 | 0.02 | 0.00 | 2.96 | 2.00 | 0.00 | 8.52 | 0.02 | 0.00 |
| 2.98 | 2.00 | 0.00 | 8.51 | 0.02 | 0.00 | 3.00 | 2.00 | 0.00 | 8.50 | 0.02 | 0.00 |
| 3.02 | 2.00 | 0.00 | 8.49 | 0.02 | 0.00 | 3.04 | 2.00 | 0.00 | 8.48 | 0.02 | 0.00 |
| 3.06 | 2.00 | 0.00 | 8.47 | 0.02 | 0.00 | 3.08 | 2.00 | 0.00 | 8.46 | 0.02 | 0.00 |
| 3.10 | 2.00 | 0.00 | 8.45 | 0.02 | 0.00 | 3.12 | 2.00 | 0.00 | 8.44 | 0.02 | 0.00 |
| 3.14 | 2.00 | 0.00 | 8.43 | 0.02 | 0.00 | 3.16 | 2.00 | 0.00 | 8.42 | 0.02 | 0.00 |
| 3.18 | 2.00 | 0.00 | 8.41 | 0.02 | 0.00 | 3.20 | 2.00 | 0.00 | 8.40 | 0.02 | 0.00 |
| 3.22 | 2.00 | 0.00 | 8.39 | 0.02 | 0.00 | 3.24 | 2.00 | 0.00 | 8.38 | 0.02 | 0.00 |
| 3.26 | 2.00 | 0.00 | 8.37 | 0.02 | 0.00 | 3.28 | 2.00 | 0.00 | 8.36 | 0.02 | 0.00 |
| 3.30 | 2.00 | 0.00 | 8.35 | 0.02 | 0.00 | 3.32 | 2.00 | 0.00 | 8.34 | 0.02 | 0.00 |
| 3.34 | 2.00 | 0.00 | 8.33 | 0.02 | 0.00 | 3.36 | 2.00 | 0.00 | 8.32 | 0.02 | 0.00 |
| 3.38 | 2.00 | 0.00 | 8.31 | 0.02 | 0.00 | 3.40 | 2.00 | 0.00 | 8.30 | 0.02 | 0.00 |
| 3.42 | 2.00 | 0.00 | 8.29 | 0.02 | 0.00 | 3.44 | 2.00 | 0.00 | 8.28 | 0.02 | 0.00 |
| 3.46 | 2.00 | 0.00 | 8.27 | 0.02 | 0.00 | 3.48 | 2.00 | 0.00 | 8.26 | 0.02 | 0.00 |
| 3.50 | 2.00 | 0.00 | 8.25 | 0.02 | 0.00 | 3.52 | 2.00 | 0.00 | 8.24 | 0.02 | 0.00 |
| 3.54 | 2.00 | 0.00 | 8.23 | 0.02 | 0.00 | 3.56 | 2.00 | 0.00 | 8.22 | 0.02 | 0.00 |
| 3.58 | 2.00 | 0.00 | 8.21 | 0.02 | 0.00 | 3.60 | 2.00 | 0.00 | 8.20 | 0.02 | 0.00 |
| 3.62 | 2.00 | 0.00 | 8.19 | 0.02 | 0.00 | 3.64 | 2.00 | 0.00 | 8.18 | 0.02 | 0.00 |
| 3.66 | 2.00 | 0.00 | 8.17 | 0.02 | 0.00 | 3.68 | 2.00 | 0.00 | 8.16 | 0.02 | 0.00 |
| 3.70 | 2.00 | 0.00 | 8.15 | 0.02 | 0.00 | 3.72 | 2.00 | 0.00 | 8.14 | 0.02 | 0.00 |
| 3.74 | 2.00 | 0.00 | 8.13 | 0.02 | 0.00 | 3.76 | 2.00 | 0.00 | 8.12 | 0.02 | 0.00 |
| 3.78 | 2.00 | 0.00 | 8.11 | 0.02 | 0.00 | 3.80 | 2.00 | 0.00 | 8.10 | 0.02 | 0.00 |
| 3.82 | 2.00 | 0.00 | 8.09 | 0.02 | 0.00 | 3.84 | 2.00 | 0.00 | 8.08 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 3.86 | 2.00 | 0.00 | 8.07 | 0.02 | 0.00 | 3.88 | 2.00 | 0.00 | 8.06 | 0.02 | 0.00 |
| 3.90 | 2.00 | 0.00 | 8.05 | 0.02 | 0.00 | 3.92 | 2.00 | 0.00 | 8.04 | 0.02 | 0.00 |
| 3.94 | 2.00 | 0.00 | 8.03 | 0.02 | 0.00 | 3.96 | 2.00 | 0.00 | 8.02 | 0.02 | 0.00 |
| 3.98 | 2.00 | 0.00 | 8.01 | 0.02 | 0.00 | 4.00 | 1.08 | 0.00 | 8.00 | 0.02 | 0.00 |
| 4.02 | 1.09 | 0.00 | 7.99 | 0.02 | 0.00 | 4.04 | 1.12 | 0.00 | 7.98 | 0.02 | 0.00 |
| 4.06 | 1.17 | 0.00 | 7.97 | 0.02 | 0.00 | 4.08 | 1.26 | 0.00 | 7.96 | 0.02 | 0.00 |
| 4.10 | 1.33 | 0.00 | 7.95 | 0.02 | 0.00 | 4.12 | 1.41 | 0.00 | 7.94 | 0.02 | 0.00 |
| 4.14 | 1.44 | 0.00 | 7.93 | 0.02 | 0.00 | 4.16 | 1.46 | 0.00 | 7.92 | 0.02 | 0.00 |
| 4.18 | 1.49 | 0.00 | 7.91 | 0.02 | 0.00 | 4.20 | 1.48 | 0.00 | 7.90 | 0.02 | 0.00 |
| 4.22 | 1.46 | 0.00 | 7.89 | 0.02 | 0.00 | 4.24 | 1.41 | 0.00 | 7.88 | 0.02 | 0.00 |
| 4.26 | 1.36 | 0.00 | 7.87 | 0.02 | 0.00 | 4.28 | 1.30 | 0.00 | 7.86 | 0.02 | 0.00 |
| 4.30 | 1.24 | 0.00 | 7.85 | 0.02 | 0.00 | 4.32 | 1.20 | 0.00 | 7.84 | 0.02 | 0.00 |
| 4.34 | 1.17 | 0.00 | 7.83 | 0.02 | 0.00 | 4.36 | 1.15 | 0.00 | 7.82 | 0.02 | 0.00 |
| 4.38 | 1.12 | 0.00 | 7.81 | 0.02 | 0.00 | 4.40 | 1.11 | 0.00 | 7.80 | 0.02 | 0.00 |
| 4.42 | 1.11 | 0.00 | 7.79 | 0.02 | 0.00 | 4.44 | 1.13 | 0.00 | 7.78 | 0.02 | 0.00 |
| 4.46 | 1.18 | 0.00 | 7.77 | 0.02 | 0.00 | 4.48 | 1.24 | 0.00 | 7.76 | 0.02 | 0.00 |
| 4.50 | 1.32 | 0.00 | 7.75 | 0.02 | 0.00 | 4.52 | 1.42 | 0.00 | 7.74 | 0.02 | 0.00 |
| 4.54 | 2.00 | 0.00 | 7.73 | 0.02 | 0.00 | 4.56 | 2.00 | 0.00 | 7.72 | 0.02 | 0.00 |
| 4.58 | 2.00 | 0.00 | 7.71 | 0.02 | 0.00 | 4.60 | 2.00 | 0.00 | 7.70 | 0.02 | 0.00 |
| 4.62 | 2.00 | 0.00 | 7.69 | 0.02 | 0.00 | 4.64 | 2.00 | 0.00 | 7.68 | 0.02 | 0.00 |
| 4.66 | 2.00 | 0.00 | 7.67 | 0.02 | 0.00 | 4.68 | 2.00 | 0.00 | 7.66 | 0.02 | 0.00 |
| 4.70 | 2.00 | 0.00 | 7.65 | 0.02 | 0.00 | 4.72 | 2.00 | 0.00 | 7.64 | 0.02 | 0.00 |
| 4.74 | 2.00 | 0.00 | 7.63 | 0.02 | 0.00 | 4.76 | 2.00 | 0.00 | 7.62 | 0.02 | 0.00 |
| 4.78 | 2.00 | 0.00 | 7.61 | 0.02 | 0.00 | 4.80 | 2.00 | 0.00 | 7.60 | 0.02 | 0.00 |
| 4.82 | 2.00 | 0.00 | 7.59 | 0.02 | 0.00 | 4.84 | 2.00 | 0.00 | 7.58 | 0.02 | 0.00 |
| 4.86 | 2.00 | 0.00 | 7.57 | 0.02 | 0.00 | 4.88 | 2.00 | 0.00 | 7.56 | 0.02 | 0.00 |
| 4.90 | 2.00 | 0.00 | 7.55 | 0.02 | 0.00 | 4.92 | 2.00 | 0.00 | 7.54 | 0.02 | 0.00 |
| 4.94 | 2.00 | 0.00 | 7.53 | 0.02 | 0.00 | 4.96 | 2.00 | 0.00 | 7.52 | 0.02 | 0.00 |
| 4.98 | 2.00 | 0.00 | 7.51 | 0.02 | 0.00 | 5.00 | 2.00 | 0.00 | 7.50 | 0.02 | 0.00 |
| 5.02 | 2.00 | 0.00 | 7.49 | 0.02 | 0.00 | 5.04 | 2.00 | 0.00 | 7.48 | 0.02 | 0.00 |
| 5.06 | 2.00 | 0.00 | 7.47 | 0.02 | 0.00 | 5.08 | 2.00 | 0.00 | 7.46 | 0.02 | 0.00 |
| 5.10 | 2.00 | 0.00 | 7.45 | 0.02 | 0.00 | 5.12 | 2.00 | 0.00 | 7.44 | 0.02 | 0.00 |
| 5.14 | 2.00 | 0.00 | 7.43 | 0.02 | 0.00 | 5.16 | 2.00 | 0.00 | 7.42 | 0.02 | 0.00 |
| 5.18 | 2.00 | 0.00 | 7.41 | 0.02 | 0.00 | 5.20 | 2.00 | 0.00 | 7.40 | 0.02 | 0.00 |
| 5.22 | 2.00 | 0.00 | 7.39 | 0.02 | 0.00 | 5.24 | 2.00 | 0.00 | 7.38 | 0.02 | 0.00 |
| 5.26 | 2.00 | 0.00 | 7.37 | 0.02 | 0.00 | 5.28 | 2.00 | 0.00 | 7.36 | 0.02 | 0.00 |
| 5.30 | 2.00 | 0.00 | 7.35 | 0.02 | 0.00 | 5.32 | 2.00 | 0.00 | 7.34 | 0.02 | 0.00 |
| 5.34 | 2.00 | 0.00 | 7.33 | 0.02 | 0.00 | 5.36 | 2.00 | 0.00 | 7.32 | 0.02 | 0.00 |
| 5.38 | 2.00 | 0.00 | 7.31 | 0.02 | 0.00 | 5.40 | 2.00 | 0.00 | 7.30 | 0.02 | 0.00 |
| 5.42 | 2.00 | 0.00 | 7.29 | 0.02 | 0.00 | 5.44 | 2.00 | 0.00 | 7.28 | 0.02 | 0.00 |
| 5.46 | 2.00 | 0.00 | 7.27 | 0.02 | 0.00 | 5.48 | 2.00 | 0.00 | 7.26 | 0.02 | 0.00 |
| 5.50 | 2.00 | 0.00 | 7.25 | 0.02 | 0.00 | 5.52 | 2.00 | 0.00 | 7.24 | 0.02 | 0.00 |
| 5.54 | 2.00 | 0.00 | 7.23 | 0.02 | 0.00 | 5.56 | 1.03 | 0.00 | 7.22 | 0.02 | 0.00 |
| 5.58 | 2.00 | 0.00 | 7.21 | 0.02 | 0.00 | 5.60 | 2.00 | 0.00 | 7.20 | 0.02 | 0.00 |
| 5.62 | 2.00 | 0.00 | 7.19 | 0.02 | 0.00 | 5.64 | 2.00 | 0.00 | 7.18 | 0.02 | 0.00 |
| 5.66 | 2.00 | 0.00 | 7.17 | 0.02 | 0.00 | 5.68 | 2.00 | 0.00 | 7.16 | 0.02 | 0.00 |
| 5.70 | 2.00 | 0.00 | 7.15 | 0.02 | 0.00 | 5.72 | 2.00 | 0.00 | 7.14 | 0.02 | 0.00 |
| 5.74 | 2.00 | 0.00 | 7.13 | 0.02 | 0.00 | 5.76 | 2.00 | 0.00 | 7.12 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 5.78 | 2.00 | 0.00 | 7.11 | 0.02 | 0.00 | 5.80 | 2.00 | 0.00 | 7.10 | 0.02 | 0.00 |
| 5.82 | 2.00 | 0.00 | 7.09 | 0.02 | 0.00 | 5.84 | 2.00 | 0.00 | 7.08 | 0.02 | 0.00 |
| 5.86 | 2.00 | 0.00 | 7.07 | 0.02 | 0.00 | 5.88 | 2.00 | 0.00 | 7.06 | 0.02 | 0.00 |
| 5.90 | 2.00 | 0.00 | 7.05 | 0.02 | 0.00 | 5.92 | 2.00 | 0.00 | 7.04 | 0.02 | 0.00 |
| 5.94 | 2.00 | 0.00 | 7.03 | 0.02 | 0.00 | 5.96 | 2.00 | 0.00 | 7.02 | 0.02 | 0.00 |
| 5.98 | 2.00 | 0.00 | 7.01 | 0.02 | 0.00 | 6.00 | 2.00 | 0.00 | 7.00 | 0.02 | 0.00 |
| 6.02 | 2.00 | 0.00 | 6.99 | 0.02 | 0.00 | 6.04 | 2.00 | 0.00 | 6.98 | 0.02 | 0.00 |
| 6.06 | 2.00 | 0.00 | 6.97 | 0.02 | 0.00 | 6.08 | 2.00 | 0.00 | 6.96 | 0.02 | 0.00 |
| 6.10 | 2.00 | 0.00 | 6.95 | 0.02 | 0.00 | 6.12 | 2.00 | 0.00 | 6.94 | 0.02 | 0.00 |
| 6.14 | 2.00 | 0.00 | 6.93 | 0.02 | 0.00 | 6.16 | 2.00 | 0.00 | 6.92 | 0.02 | 0.00 |
| 6.18 | 2.00 | 0.00 | 6.91 | 0.02 | 0.00 | 6.20 | 2.00 | 0.00 | 6.90 | 0.02 | 0.00 |
| 6.22 | 2.00 | 0.00 | 6.89 | 0.02 | 0.00 | 6.24 | 2.00 | 0.00 | 6.88 | 0.02 | 0.00 |
| 6.26 | 2.00 | 0.00 | 6.87 | 0.02 | 0.00 | 6.28 | 2.00 | 0.00 | 6.86 | 0.02 | 0.00 |
| 6.30 | 2.00 | 0.00 | 6.85 | 0.02 | 0.00 | 6.32 | 2.00 | 0.00 | 6.84 | 0.02 | 0.00 |
| 6.34 | 2.00 | 0.00 | 6.83 | 0.02 | 0.00 | 6.36 | 2.00 | 0.00 | 6.82 | 0.02 | 0.00 |
| 6.38 | 2.00 | 0.00 | 6.81 | 0.02 | 0.00 | 6.40 | 2.00 | 0.00 | 6.80 | 0.02 | 0.00 |
| 6.42 | 2.00 | 0.00 | 6.79 | 0.02 | 0.00 | 6.44 | 2.00 | 0.00 | 6.78 | 0.02 | 0.00 |
| 6.46 | 2.00 | 0.00 | 6.77 | 0.02 | 0.00 | 6.48 | 2.00 | 0.00 | 6.76 | 0.02 | 0.00 |
| 6.50 | 2.00 | 0.00 | 6.75 | 0.02 | 0.00 | 6.52 | 2.00 | 0.00 | 6.74 | 0.02 | 0.00 |
| 6.54 | 2.00 | 0.00 | 6.73 | 0.02 | 0.00 | 6.56 | 2.00 | 0.00 | 6.72 | 0.02 | 0.00 |
| 6.58 | 2.00 | 0.00 | 6.71 | 0.02 | 0.00 | 6.60 | 2.00 | 0.00 | 6.70 | 0.02 | 0.00 |
| 6.62 | 2.00 | 0.00 | 6.69 | 0.02 | 0.00 | 6.64 | 2.00 | 0.00 | 6.68 | 0.02 | 0.00 |
| 6.66 | 2.00 | 0.00 | 6.67 | 0.02 | 0.00 | 6.68 | 2.00 | 0.00 | 6.66 | 0.02 | 0.00 |
| 6.70 | 2.00 | 0.00 | 6.65 | 0.02 | 0.00 | 6.72 | 2.00 | 0.00 | 6.64 | 0.02 | 0.00 |
| 6.74 | 2.00 | 0.00 | 6.63 | 0.02 | 0.00 | 6.76 | 2.00 | 0.00 | 6.62 | 0.02 | 0.00 |
| 6.78 | 2.00 | 0.00 | 6.61 | 0.02 | 0.00 | 6.80 | 2.00 | 0.00 | 6.60 | 0.02 | 0.00 |
| 6.82 | 2.00 | 0.00 | 6.59 | 0.02 | 0.00 | 6.84 | 2.00 | 0.00 | 6.58 | 0.02 | 0.00 |
| 6.86 | 2.00 | 0.00 | 6.57 | 0.02 | 0.00 | 6.88 | 2.00 | 0.00 | 6.56 | 0.02 | 0.00 |
| 6.90 | 2.00 | 0.00 | 6.55 | 0.02 | 0.00 | 6.92 | 2.00 | 0.00 | 6.54 | 0.02 | 0.00 |
| 6.94 | 2.00 | 0.00 | 6.53 | 0.02 | 0.00 | 6.96 | 2.00 | 0.00 | 6.52 | 0.02 | 0.00 |
| 6.98 | 2.00 | 0.00 | 6.51 | 0.02 | 0.00 | 7.00 | 2.00 | 0.00 | 6.50 | 0.02 | 0.00 |
| 7.02 | 2.00 | 0.00 | 6.49 | 0.02 | 0.00 | 7.04 | 2.00 | 0.00 | 6.48 | 0.02 | 0.00 |
| 7.06 | 2.00 | 0.00 | 6.47 | 0.02 | 0.00 | 7.08 | 2.00 | 0.00 | 6.46 | 0.02 | 0.00 |
| 7.10 | 2.00 | 0.00 | 6.45 | 0.02 | 0.00 | 7.12 | 2.00 | 0.00 | 6.44 | 0.02 | 0.00 |
| 7.14 | 2.00 | 0.00 | 6.43 | 0.02 | 0.00 | 7.16 | 2.00 | 0.00 | 6.42 | 0.02 | 0.00 |
| 7.18 | 2.00 | 0.00 | 6.41 | 0.02 | 0.00 | 7.20 | 2.00 | 0.00 | 6.40 | 0.02 | 0.00 |
| 7.22 | 2.00 | 0.00 | 6.39 | 0.02 | 0.00 | 7.24 | 2.00 | 0.00 | 6.38 | 0.02 | 0.00 |
| 7.26 | 2.00 | 0.00 | 6.37 | 0.02 | 0.00 | 7.28 | 2.00 | 0.00 | 6.36 | 0.02 | 0.00 |
| 7.30 | 2.00 | 0.00 | 6.35 | 0.02 | 0.00 | 7.32 | 2.00 | 0.00 | 6.34 | 0.02 | 0.00 |
| 7.34 | 2.00 | 0.00 | 6.33 | 0.02 | 0.00 | 7.36 | 2.00 | 0.00 | 6.32 | 0.02 | 0.00 |
| 7.38 | 2.00 | 0.00 | 6.31 | 0.02 | 0.00 | 7.40 | 2.00 | 0.00 | 6.30 | 0.02 | 0.00 |
| 7.42 | 2.00 | 0.00 | 6.29 | 0.02 | 0.00 | 7.44 | 2.00 | 0.00 | 6.28 | 0.02 | 0.00 |
| 7.46 | 2.00 | 0.00 | 6.27 | 0.02 | 0.00 | 7.48 | 2.00 | 0.00 | 6.26 | 0.02 | 0.00 |
| 7.50 | 2.00 | 0.00 | 6.25 | 0.02 | 0.00 | 7.52 | 2.00 | 0.00 | 6.24 | 0.02 | 0.00 |
| 7.54 | 2.00 | 0.00 | 6.23 | 0.02 | 0.00 | 7.56 | 2.00 | 0.00 | 6.22 | 0.02 | 0.00 |
| 7.58 | 2.00 | 0.00 | 6.21 | 0.02 | 0.00 | 7.60 | 2.00 | 0.00 | 6.20 | 0.02 | 0.00 |
| 7.62 | 2.00 | 0.00 | 6.19 | 0.02 | 0.00 | 7.64 | 2.00 | 0.00 | 6.18 | 0.02 | 0.00 |
| 7.66 | 2.00 | 0.00 | 6.17 | 0.02 | 0.00 | 7.68 | 2.00 | 0.00 | 6.16 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 7.70 | 2.00 | 0.00 | 6.15 | 0.02 | 0.00 | 7.72 | 2.00 | 0.00 | 6.14 | 0.02 | 0.00 |
| 7.74 | 2.00 | 0.00 | 6.13 | 0.02 | 0.00 | 7.76 | 2.00 | 0.00 | 6.12 | 0.02 | 0.00 |
| 7.78 | 2.00 | 0.00 | 6.11 | 0.02 | 0.00 | 7.80 | 2.00 | 0.00 | 6.10 | 0.02 | 0.00 |
| 7.82 | 2.00 | 0.00 | 6.09 | 0.02 | 0.00 | 7.84 | 2.00 | 0.00 | 6.08 | 0.02 | 0.00 |
| 7.86 | 2.00 | 0.00 | 6.07 | 0.02 | 0.00 | 7.88 | 2.00 | 0.00 | 6.06 | 0.02 | 0.00 |
| 7.90 | 2.00 | 0.00 | 6.05 | 0.02 | 0.00 | 7.92 | 2.00 | 0.00 | 6.04 | 0.02 | 0.00 |
| 7.94 | 2.00 | 0.00 | 6.03 | 0.02 | 0.00 | 7.96 | 2.00 | 0.00 | 6.02 | 0.02 | 0.00 |
| 7.98 | 2.00 | 0.00 | 6.01 | 0.02 | 0.00 | 8.00 | 2.00 | 0.00 | 6.00 | 0.02 | 0.00 |
| 8.02 | 2.00 | 0.00 | 5.99 | 0.02 | 0.00 | 8.04 | 2.00 | 0.00 | 5.98 | 0.02 | 0.00 |
| 8.06 | 2.00 | 0.00 | 5.97 | 0.02 | 0.00 | 8.08 | 2.00 | 0.00 | 5.96 | 0.02 | 0.00 |
| 8.10 | 2.00 | 0.00 | 5.95 | 0.02 | 0.00 | 8.12 | 2.00 | 0.00 | 5.94 | 0.02 | 0.00 |
| 8.14 | 2.00 | 0.00 | 5.93 | 0.02 | 0.00 | 8.16 | 2.00 | 0.00 | 5.92 | 0.02 | 0.00 |
| 8.18 | 2.00 | 0.00 | 5.91 | 0.02 | 0.00 | 8.20 | 2.00 | 0.00 | 5.90 | 0.02 | 0.00 |
| 8.22 | 2.00 | 0.00 | 5.89 | 0.02 | 0.00 | 8.24 | 2.00 | 0.00 | 5.88 | 0.02 | 0.00 |
| 8.26 | 2.00 | 0.00 | 5.87 | 0.02 | 0.00 | 8.28 | 2.00 | 0.00 | 5.86 | 0.02 | 0.00 |
| 8.30 | 2.00 | 0.00 | 5.85 | 0.02 | 0.00 | 8.32 | 2.00 | 0.00 | 5.84 | 0.02 | 0.00 |
| 8.34 | 2.00 | 0.00 | 5.83 | 0.02 | 0.00 | 8.36 | 2.00 | 0.00 | 5.82 | 0.02 | 0.00 |
| 8.38 | 2.00 | 0.00 | 5.81 | 0.02 | 0.00 | 8.40 | 2.00 | 0.00 | 5.80 | 0.02 | 0.00 |
| 8.42 | 2.00 | 0.00 | 5.79 | 0.02 | 0.00 | 8.44 | 2.00 | 0.00 | 5.78 | 0.02 | 0.00 |
| 8.46 | 2.00 | 0.00 | 5.77 | 0.02 | 0.00 | 8.48 | 2.00 | 0.00 | 5.76 | 0.02 | 0.00 |
| 8.50 | 2.00 | 0.00 | 5.75 | 0.02 | 0.00 | 8.52 | 2.00 | 0.00 | 5.74 | 0.02 | 0.00 |
| 8.54 | 2.00 | 0.00 | 5.73 | 0.02 | 0.00 | 8.56 | 2.00 | 0.00 | 5.72 | 0.02 | 0.00 |
| 8.58 | 2.00 | 0.00 | 5.71 | 0.02 | 0.00 | 8.60 | 2.00 | 0.00 | 5.70 | 0.02 | 0.00 |
| 8.62 | 2.00 | 0.00 | 5.69 | 0.02 | 0.00 | 8.64 | 2.00 | 0.00 | 5.68 | 0.02 | 0.00 |
| 8.66 | 2.00 | 0.00 | 5.67 | 0.02 | 0.00 | 8.68 | 2.00 | 0.00 | 5.66 | 0.02 | 0.00 |
| 8.70 | 2.00 | 0.00 | 5.65 | 0.02 | 0.00 | 8.72 | 2.00 | 0.00 | 5.64 | 0.02 | 0.00 |
| 8.74 | 2.00 | 0.00 | 5.63 | 0.02 | 0.00 | 8.76 | 2.00 | 0.00 | 5.62 | 0.02 | 0.00 |
| 8.78 | 2.00 | 0.00 | 5.61 | 0.02 | 0.00 | 8.80 | 2.00 | 0.00 | 5.60 | 0.02 | 0.00 |
| 8.82 | 2.00 | 0.00 | 5.59 | 0.02 | 0.00 | 8.84 | 2.00 | 0.00 | 5.58 | 0.02 | 0.00 |
| 8.86 | 2.00 | 0.00 | 5.57 | 0.02 | 0.00 | 8.88 | 2.00 | 0.00 | 5.56 | 0.02 | 0.00 |
| 8.90 | 2.00 | 0.00 | 5.55 | 0.02 | 0.00 | 8.92 | 2.00 | 0.00 | 5.54 | 0.02 | 0.00 |
| 8.94 | 2.00 | 0.00 | 5.53 | 0.02 | 0.00 | 8.96 | 2.00 | 0.00 | 5.52 | 0.02 | 0.00 |
| 8.98 | 2.00 | 0.00 | 5.51 | 0.02 | 0.00 | 9.00 | 2.00 | 0.00 | 5.50 | 0.02 | 0.00 |
| 9.02 | 2.00 | 0.00 | 5.49 | 0.02 | 0.00 | 9.04 | 2.00 | 0.00 | 5.48 | 0.02 | 0.00 |
| 9.06 | 2.00 | 0.00 | 5.47 | 0.02 | 0.00 | 9.08 | 2.00 | 0.00 | 5.46 | 0.02 | 0.00 |
| 9.10 | 2.00 | 0.00 | 5.45 | 0.02 | 0.00 | 9.12 | 2.00 | 0.00 | 5.44 | 0.02 | 0.00 |
| 9.14 | 2.00 | 0.00 | 5.43 | 0.02 | 0.00 | 9.16 | 2.00 | 0.00 | 5.42 | 0.02 | 0.00 |
| 9.18 | 2.00 | 0.00 | 5.41 | 0.02 | 0.00 | 9.20 | 2.00 | 0.00 | 5.40 | 0.02 | 0.00 |
| 9.22 | 2.00 | 0.00 | 5.39 | 0.02 | 0.00 | 9.24 | 2.00 | 0.00 | 5.38 | 0.02 | 0.00 |
| 9.26 | 2.00 | 0.00 | 5.37 | 0.02 | 0.00 | 9.28 | 2.00 | 0.00 | 5.36 | 0.02 | 0.00 |
| 9.30 | 2.00 | 0.00 | 5.35 | 0.02 | 0.00 | 9.32 | 2.00 | 0.00 | 5.34 | 0.02 | 0.00 |
| 9.34 | 2.00 | 0.00 | 5.33 | 0.02 | 0.00 | 9.36 | 2.00 | 0.00 | 5.32 | 0.02 | 0.00 |
| 9.38 | 2.00 | 0.00 | 5.31 | 0.02 | 0.00 | 9.40 | 2.00 | 0.00 | 5.30 | 0.02 | 0.00 |
| 9.42 | 2.00 | 0.00 | 5.29 | 0.02 | 0.00 | 9.44 | 2.00 | 0.00 | 5.28 | 0.02 | 0.00 |
| 9.46 | 2.00 | 0.00 | 5.27 | 0.02 | 0.00 | 9.48 | 2.00 | 0.00 | 5.26 | 0.02 | 0.00 |
| 9.50 | 2.00 | 0.00 | 5.25 | 0.02 | 0.00 | 9.52 | 2.00 | 0.00 | 5.24 | 0.02 | 0.00 |
| 9.54 | 2.00 | 0.00 | 5.23 | 0.02 | 0.00 | 9.56 | 2.00 | 0.00 | 5.22 | 0.02 | 0.00 |
| 9.58 | 2.00 | 0.00 | 5.21 | 0.02 | 0.00 | 9.60 | 2.00 | 0.00 | 5.20 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 9.62 | 2.00 | 0.00 | 5.19 | 0.02 | 0.00 | 9.64 | 2.00 | 0.00 | 5.18 | 0.02 | 0.00 |
| 9.66 | 2.00 | 0.00 | 5.17 | 0.02 | 0.00 | 9.68 | 2.00 | 0.00 | 5.16 | 0.02 | 0.00 |
| 9.70 | 2.00 | 0.00 | 5.15 | 0.02 | 0.00 | 9.72 | 2.00 | 0.00 | 5.14 | 0.02 | 0.00 |
| 9.74 | 2.00 | 0.00 | 5.13 | 0.02 | 0.00 | 9.76 | 0.98 | 0.02 | 5.12 | 0.02 | 0.00 |
| 9.78 | 0.98 | 0.02 | 5.11 | 0.02 | 0.00 | 9.80 | 1.01 | 0.00 | 5.10 | 0.02 | 0.00 |
| 9.82 | 1.03 | 0.00 | 5.09 | 0.02 | 0.00 | 9.84 | 1.05 | 0.00 | 5.08 | 0.02 | 0.00 |
| 9.86 | 1.05 | 0.00 | 5.07 | 0.02 | 0.00 | 9.88 | 1.04 | 0.00 | 5.06 | 0.02 | 0.00 |
| 9.90 | 1.03 | 0.00 | 5.05 | 0.02 | 0.00 | 9.92 | 1.02 | 0.00 | 5.04 | 0.02 | 0.00 |
| 9.94 | 1.05 | 0.00 | 5.03 | 0.02 | 0.00 | 9.96 | 1.10 | 0.00 | 5.02 | 0.02 | 0.00 |
| 9.98 | 1.13 | 0.00 | 5.01 | 0.02 | 0.00 | 10.00 | 1.04 | 0.00 | 5.00 | 0.02 | 0.00 |
| 10.02 | 0.84 | 0.16 | 4.99 | 0.02 | 0.02 | 10.04 | 0.92 | 0.08 | 4.98 | 0.02 | 0.01 |
| 10.06 | 0.99 | 0.01 | 4.97 | 0.02 | 0.00 | 10.08 | 1.02 | 0.00 | 4.96 | 0.02 | 0.00 |
| 10.10 | 1.03 | 0.00 | 4.95 | 0.02 | 0.00 | 10.12 | 1.04 | 0.00 | 4.94 | 0.02 | 0.00 |
| 10.14 | 1.06 | 0.00 | 4.93 | 0.02 | 0.00 | 10.16 | 1.08 | 0.00 | 4.92 | 0.02 | 0.00 |
| 10.18 | 1.07 | 0.00 | 4.91 | 0.02 | 0.00 | 10.20 | 1.05 | 0.00 | 4.90 | 0.02 | 0.00 |
| 10.22 | 1.04 | 0.00 | 4.89 | 0.02 | 0.00 | 10.24 | 1.07 | 0.00 | 4.88 | 0.02 | 0.00 |
| 10.26 | 1.14 | 0.00 | 4.87 | 0.02 | 0.00 | 10.28 | 1.20 | 0.00 | 4.86 | 0.02 | 0.00 |
| 10.30 | 2.00 | 0.00 | 4.85 | 0.02 | 0.00 | 10.32 | 2.00 | 0.00 | 4.84 | 0.02 | 0.00 |
| 10.34 | 2.00 | 0.00 | 4.83 | 0.02 | 0.00 | 10.36 | 2.00 | 0.00 | 4.82 | 0.02 | 0.00 |
| 10.38 | 2.00 | 0.00 | 4.81 | 0.02 | 0.00 | 10.40 | 2.00 | 0.00 | 4.80 | 0.02 | 0.00 |
| 10.42 | 2.00 | 0.00 | 4.79 | 0.02 | 0.00 | 10.44 | 2.00 | 0.00 | 4.78 | 0.02 | 0.00 |
| 10.46 | 2.00 | 0.00 | 4.77 | 0.02 | 0.00 | 10.48 | 2.00 | 0.00 | 4.76 | 0.02 | 0.00 |
| 10.50 | 2.00 | 0.00 | 4.75 | 0.02 | 0.00 | 10.52 | 2.00 | 0.00 | 4.74 | 0.02 | 0.00 |
| 10.54 | 2.00 | 0.00 | 4.73 | 0.02 | 0.00 | 10.56 | 2.00 | 0.00 | 4.72 | 0.02 | 0.00 |
| 10.58 | 2.00 | 0.00 | 4.71 | 0.02 | 0.00 | 10.60 | 2.00 | 0.00 | 4.70 | 0.02 | 0.00 |
| 10.62 | 2.00 | 0.00 | 4.69 | 0.02 | 0.00 | 10.64 | 2.00 | 0.00 | 4.68 | 0.02 | 0.00 |
| 10.66 | 2.00 | 0.00 | 4.67 | 0.02 | 0.00 | 10.68 | 2.00 | 0.00 | 4.66 | 0.02 | 0.00 |
| 10.70 | 2.00 | 0.00 | 4.65 | 0.02 | 0.00 | 10.72 | 2.00 | 0.00 | 4.64 | 0.02 | 0.00 |
| 10.74 | 2.00 | 0.00 | 4.63 | 0.02 | 0.00 | 10.76 | 2.00 | 0.00 | 4.62 | 0.02 | 0.00 |
| 10.78 | 2.00 | 0.00 | 4.61 | 0.02 | 0.00 | 10.80 | 2.00 | 0.00 | 4.60 | 0.02 | 0.00 |
| 10.82 | 2.00 | 0.00 | 4.59 | 0.02 | 0.00 | 10.84 | 2.00 | 0.00 | 4.58 | 0.02 | 0.00 |
| 10.86 | 2.00 | 0.00 | 4.57 | 0.02 | 0.00 | 10.88 | 2.00 | 0.00 | 4.56 | 0.02 | 0.00 |
| 10.90 | 2.00 | 0.00 | 4.55 | 0.02 | 0.00 | 10.92 | 2.00 | 0.00 | 4.54 | 0.02 | 0.00 |
| 10.94 | 2.00 | 0.00 | 4.53 | 0.02 | 0.00 | 10.96 | 2.00 | 0.00 | 4.52 | 0.02 | 0.00 |
| 10.98 | 2.00 | 0.00 | 4.51 | 0.02 | 0.00 | 11.00 | 2.00 | 0.00 | 4.50 | 0.02 | 0.00 |
| 11.02 | 2.00 | 0.00 | 4.49 | 0.02 | 0.00 | 11.04 | 2.00 | 0.00 | 4.48 | 0.02 | 0.00 |
| 11.06 | 2.00 | 0.00 | 4.47 | 0.02 | 0.00 | 11.08 | 2.00 | 0.00 | 4.46 | 0.02 | 0.00 |
| 11.10 | 1.04 | 0.00 | 4.45 | 0.02 | 0.00 | 11.12 | 0.99 | 0.01 | 4.44 | 0.02 | 0.00 |
| 11.14 | 0.98 | 0.02 | 4.43 | 0.02 | 0.00 | 11.16 | 1.00 | 0.00 | 4.42 | 0.02 | 0.00 |
| 11.18 | 1.02 | 0.00 | 4.41 | 0.02 | 0.00 | 11.20 | 1.06 | 0.00 | 4.40 | 0.02 | 0.00 |
| 11.22 | 2.00 | 0.00 | 4.39 | 0.02 | 0.00 | 11.24 | 2.00 | 0.00 | 4.38 | 0.02 | 0.00 |
| 11.26 | 2.00 | 0.00 | 4.37 | 0.02 | 0.00 | 11.28 | 2.00 | 0.00 | 4.36 | 0.02 | 0.00 |
| 11.30 | 2.00 | 0.00 | 4.35 | 0.02 | 0.00 | 11.32 | 2.00 | 0.00 | 4.34 | 0.02 | 0.00 |
| 11.34 | 2.00 | 0.00 | 4.33 | 0.02 | 0.00 | 11.36 | 2.00 | 0.00 | 4.32 | 0.02 | 0.00 |
| 11.38 | 2.00 | 0.00 | 4.31 | 0.02 | 0.00 | 11.40 | 2.00 | 0.00 | 4.30 | 0.02 | 0.00 |
| 11.42 | 2.00 | 0.00 | 4.29 | 0.02 | 0.00 | 11.44 | 2.00 | 0.00 | 4.28 | 0.02 | 0.00 |
| 11.46 | 2.00 | 0.00 | 4.27 | 0.02 | 0.00 | 11.48 | 2.00 | 0.00 | 4.26 | 0.02 | 0.00 |
| 11.50 | 2.00 | 0.00 | 4.25 | 0.02 | 0.00 | 11.52 | 2.00 | 0.00 | 4.24 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 11.54 | 1.18 | 0.00 | 4.23 | 0.02 | 0.00 | 11.56 | 1.21 | 0.00 | 4.22 | 0.02 | 0.00 |
| 11.58 | 2.00 | 0.00 | 4.21 | 0.02 | 0.00 | 11.60 | 2.00 | 0.00 | 4.20 | 0.02 | 0.00 |
| 11.62 | 2.00 | 0.00 | 4.19 | 0.02 | 0.00 | 11.64 | 2.00 | 0.00 | 4.18 | 0.02 | 0.00 |
| 11.66 | 2.00 | 0.00 | 4.17 | 0.02 | 0.00 | 11.68 | 2.00 | 0.00 | 4.16 | 0.02 | 0.00 |
| 11.70 | 2.00 | 0.00 | 4.15 | 0.02 | 0.00 | 11.72 | 2.00 | 0.00 | 4.14 | 0.02 | 0.00 |
| 11.74 | 2.00 | 0.00 | 4.13 | 0.02 | 0.00 | 11.76 | 1.38 | 0.00 | 4.12 | 0.02 | 0.00 |
| 11.78 | 1.35 | 0.00 | 4.11 | 0.02 | 0.00 | 11.80 | 1.36 | 0.00 | 4.10 | 0.02 | 0.00 |
| 11.82 | 1.37 | 0.00 | 4.09 | 0.02 | 0.00 | 11.84 | 1.40 | 0.00 | 4.08 | 0.02 | 0.00 |
| 11.86 | 1.40 | 0.00 | 4.07 | 0.02 | 0.00 | 11.88 | 1.45 | 0.00 | 4.06 | 0.02 | 0.00 |
| 11.90 | 1.46 | 0.00 | 4.05 | 0.02 | 0.00 | 11.92 | 1.54 | 0.00 | 4.04 | 0.02 | 0.00 |
| 11.94 | 2.00 | 0.00 | 4.03 | 0.02 | 0.00 | 11.96 | 2.00 | 0.00 | 4.02 | 0.02 | 0.00 |
| 11.98 | 2.00 | 0.00 | 4.01 | 0.02 | 0.00 | 12.00 | 2.00 | 0.00 | 4.00 | 0.02 | 0.00 |
| 12.02 | 2.00 | 0.00 | 3.99 | 0.02 | 0.00 | 12.04 | 2.00 | 0.00 | 3.98 | 0.02 | 0.00 |
| 12.06 | 2.00 | 0.00 | 3.97 | 0.02 | 0.00 | 12.08 | 2.00 | 0.00 | 3.96 | 0.02 | 0.00 |
| 12.10 | 2.00 | 0.00 | 3.95 | 0.02 | 0.00 | 12.12 | 2.00 | 0.00 | 3.94 | 0.02 | 0.00 |
| 12.14 | 2.00 | 0.00 | 3.93 | 0.02 | 0.00 | 12.16 | 2.00 | 0.00 | 3.92 | 0.02 | 0.00 |
| 12.18 | 2.00 | 0.00 | 3.91 | 0.02 | 0.00 | 12.20 | 2.00 | 0.00 | 3.90 | 0.02 | 0.00 |
| 12.22 | 2.00 | 0.00 | 3.89 | 0.02 | 0.00 | 12.24 | 2.00 | 0.00 | 3.88 | 0.02 | 0.00 |
| 12.26 | 1.17 | 0.00 | 3.87 | 0.02 | 0.00 | 12.28 | 1.25 | 0.00 | 3.86 | 0.02 | 0.00 |
| 12.30 | 1.30 | 0.00 | 3.85 | 0.02 | 0.00 | 12.32 | 2.00 | 0.00 | 3.84 | 0.02 | 0.00 |
| 12.34 | 2.00 | 0.00 | 3.83 | 0.02 | 0.00 | 12.36 | 2.00 | 0.00 | 3.82 | 0.02 | 0.00 |
| 12.38 | 2.00 | 0.00 | 3.81 | 0.02 | 0.00 | 12.40 | 2.00 | 0.00 | 3.80 | 0.02 | 0.00 |
| 12.42 | 1.28 | 0.00 | 3.79 | 0.02 | 0.00 | 12.44 | 1.40 | 0.00 | 3.78 | 0.02 | 0.00 |
| 12.46 | 1.52 | 0.00 | 3.77 | 0.02 | 0.00 | 12.48 | 2.00 | 0.00 | 3.76 | 0.02 | 0.00 |
| 12.50 | 2.00 | 0.00 | 3.75 | 0.02 | 0.00 | 12.52 | 2.00 | 0.00 | 3.74 | 0.02 | 0.00 |
| 12.54 | 2.00 | 0.00 | 3.73 | 0.02 | 0.00 | 12.56 | 1.37 | 0.00 | 3.72 | 0.02 | 0.00 |
| 12.58 | 1.28 | 0.00 | 3.71 | 0.02 | 0.00 | 12.60 | 1.21 | 0.00 | 3.70 | 0.02 | 0.00 |
| 12.62 | 1.15 | 0.00 | 3.69 | 0.02 | 0.00 | 12.64 | 1.12 | 0.00 | 3.68 | 0.02 | 0.00 |
| 12.66 | 1.12 | 0.00 | 3.67 | 0.02 | 0.00 | 12.68 | 1.16 | 0.00 | 3.66 | 0.02 | 0.00 |
| 12.70 | 1.19 | 0.00 | 3.65 | 0.02 | 0.00 | 12.72 | 1.20 | 0.00 | 3.64 | 0.02 | 0.00 |
| 12.74 | 1.20 | 0.00 | 3.63 | 0.02 | 0.00 | 12.76 | 1.19 | 0.00 | 3.62 | 0.02 | 0.00 |
| 12.78 | 1.02 | 0.00 | 3.61 | 0.02 | 0.00 | 12.80 | 1.02 | 0.00 | 3.60 | 0.02 | 0.00 |
| 12.82 | 1.01 | 0.00 | 3.59 | 0.02 | 0.00 | 12.84 | 1.15 | 0.00 | 3.58 | 0.02 | 0.00 |
| 12.86 | 1.14 | 0.00 | 3.57 | 0.02 | 0.00 | 12.88 | 1.11 | 0.00 | 3.56 | 0.02 | 0.00 |
| 12.90 | 0.96 | 0.04 | 3.55 | 0.02 | 0.00 | 12.92 | 0.97 | 0.03 | 3.54 | 0.02 | 0.00 |
| 12.94 | 0.98 | 0.02 | 3.53 | 0.02 | 0.00 | 12.96 | 0.98 | 0.02 | 3.52 | 0.02 | 0.00 |
| 12.98 | 0.95 | 0.05 | 3.51 | 0.02 | 0.00 | 13.00 | 0.90 | 0.10 | 3.50 | 0.02 | 0.01 |
| 13.02 | 1.03 | 0.00 | 3.49 | 0.02 | 0.00 | 13.04 | 1.02 | 0.00 | 3.48 | 0.02 | 0.00 |
| 13.06 | 1.02 | 0.00 | 3.47 | 0.02 | 0.00 | 13.08 | 1.03 | 0.00 | 3.46 | 0.02 | 0.00 |
| 13.10 | 2.00 | 0.00 | 3.45 | 0.02 | 0.00 | 13.12 | 2.00 | 0.00 | 3.44 | 0.02 | 0.00 |
| 13.14 | 2.00 | 0.00 | 3.43 | 0.02 | 0.00 | 13.16 | 2.00 | 0.00 | 3.42 | 0.02 | 0.00 |
| 13.18 | 2.00 | 0.00 | 3.41 | 0.02 | 0.00 | 13.20 | 2.00 | 0.00 | 3.40 | 0.02 | 0.00 |
| 13.22 | 2.00 | 0.00 | 3.39 | 0.02 | 0.00 | 13.24 | 1.14 | 0.00 | 3.38 | 0.02 | 0.00 |
| 13.26 | 1.25 | 0.00 | 3.37 | 0.02 | 0.00 | 13.28 | 1.35 | 0.00 | 3.36 | 0.02 | 0.00 |
| 13.30 | 1.43 | 0.00 | 3.35 | 0.02 | 0.00 | 13.32 | 2.00 | 0.00 | 3.34 | 0.02 | 0.00 |
| 13.34 | 1.43 | 0.00 | 3.33 | 0.02 | 0.00 | 13.36 | 1.32 | 0.00 | 3.32 | 0.02 | 0.00 |
| 13.38 | 1.32 | 0.00 | 3.31 | 0.02 | 0.00 | 13.40 | 1.47 | 0.00 | 3.30 | 0.02 | 0.00 |
| 13.42 | 1.78 | 0.00 | 3.29 | 0.02 | 0.00 | 13.44 | 2.00 | 0.00 | 3.28 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 13.46 | 2.00 | 0.00 | 3.27 | 0.02 | 0.00 | 13.48 | 2.00 | 0.00 | 3.26 | 0.02 | 0.00 |
| 13.50 | 2.00 | 0.00 | 3.25 | 0.02 | 0.00 | 13.52 | 2.00 | 0.00 | 3.24 | 0.02 | 0.00 |
| 13.54 | 2.00 | 0.00 | 3.23 | 0.02 | 0.00 | 13.56 | 2.00 | 0.00 | 3.22 | 0.02 | 0.00 |
| 13.58 | 2.00 | 0.00 | 3.21 | 0.02 | 0.00 | 13.60 | 2.00 | 0.00 | 3.20 | 0.02 | 0.00 |
| 13.62 | 2.00 | 0.00 | 3.19 | 0.02 | 0.00 | 13.64 | 2.00 | 0.00 | 3.18 | 0.02 | 0.00 |
| 13.66 | 2.00 | 0.00 | 3.17 | 0.02 | 0.00 | 13.68 | 2.00 | 0.00 | 3.16 | 0.02 | 0.00 |
| 13.70 | 2.00 | 0.00 | 3.15 | 0.02 | 0.00 | 13.72 | 2.00 | 0.00 | 3.14 | 0.02 | 0.00 |
| 13.74 | 2.00 | 0.00 | 3.13 | 0.02 | 0.00 | 13.76 | 2.00 | 0.00 | 3.12 | 0.02 | 0.00 |
| 13.78 | 2.00 | 0.00 | 3.11 | 0.02 | 0.00 | 13.80 | 2.00 | 0.00 | 3.10 | 0.02 | 0.00 |
| 13.82 | 2.00 | 0.00 | 3.09 | 0.02 | 0.00 | 13.84 | 2.00 | 0.00 | 3.08 | 0.02 | 0.00 |
| 13.86 | 2.00 | 0.00 | 3.07 | 0.02 | 0.00 | 13.88 | 2.00 | 0.00 | 3.06 | 0.02 | 0.00 |
| 13.90 | 2.00 | 0.00 | 3.05 | 0.02 | 0.00 | 13.92 | 2.00 | 0.00 | 3.04 | 0.02 | 0.00 |
| 13.94 | 2.00 | 0.00 | 3.03 | 0.02 | 0.00 | 13.96 | 2.00 | 0.00 | 3.02 | 0.02 | 0.00 |
| 13.98 | 2.00 | 0.00 | 3.01 | 0.02 | 0.00 | 14.00 | 2.00 | 0.00 | 3.00 | 0.02 | 0.00 |
| 14.02 | 2.00 | 0.00 | 2.99 | 0.02 | 0.00 | 14.04 | 2.00 | 0.00 | 2.98 | 0.02 | 0.00 |
| 14.06 | 1.10 | 0.00 | 2.97 | 0.02 | 0.00 | 14.08 | 1.04 | 0.00 | 2.96 | 0.02 | 0.00 |
| 14.10 | 1.27 | 0.00 | 2.95 | 0.02 | 0.00 | 14.12 | 1.67 | 0.00 | 2.94 | 0.02 | 0.00 |
| 14.14 | 1.82 | 0.00 | 2.93 | 0.02 | 0.00 | 14.16 | 1.87 | 0.00 | 2.92 | 0.02 | 0.00 |
| 14.18 | 1.96 | 0.00 | 2.91 | 0.02 | 0.00 | 14.20 | 2.00 | 0.00 | 2.90 | 0.02 | 0.00 |
| 14.22 | 2.00 | 0.00 | 2.89 | 0.02 | 0.00 | 14.24 | 2.00 | 0.00 | 2.88 | 0.02 | 0.00 |
| 14.26 | 2.00 | 0.00 | 2.87 | 0.02 | 0.00 | 14.28 | 2.00 | 0.00 | 2.86 | 0.02 | 0.00 |
| 14.30 | 2.00 | 0.00 | 2.85 | 0.02 | 0.00 | 14.32 | 1.53 | 0.00 | 2.84 | 0.02 | 0.00 |
| 14.34 | 2.00 | 0.00 | 2.83 | 0.02 | 0.00 | 14.36 | 2.00 | 0.00 | 2.82 | 0.02 | 0.00 |
| 14.38 | 2.00 | 0.00 | 2.81 | 0.02 | 0.00 | 14.40 | 2.00 | 0.00 | 2.80 | 0.02 | 0.00 |
| 14.42 | 2.00 | 0.00 | 2.79 | 0.02 | 0.00 | 14.44 | 2.00 | 0.00 | 2.78 | 0.02 | 0.00 |
| 14.46 | 2.00 | 0.00 | 2.77 | 0.02 | 0.00 | 14.48 | 2.00 | 0.00 | 2.76 | 0.02 | 0.00 |
| 14.50 | 2.00 | 0.00 | 2.75 | 0.02 | 0.00 | 14.52 | 1.22 | 0.00 | 2.74 | 0.02 | 0.00 |
| 14.54 | 1.27 | 0.00 | 2.73 | 0.02 | 0.00 | 14.56 | 1.53 | 0.00 | 2.72 | 0.02 | 0.00 |
| 14.58 | 1.92 | 0.00 | 2.71 | 0.02 | 0.00 | 14.60 | 2.00 | 0.00 | 2.70 | 0.02 | 0.00 |
| 14.62 | 2.00 | 0.00 | 2.69 | 0.02 | 0.00 | 14.64 | 2.00 | 0.00 | 2.68 | 0.02 | 0.00 |
| 14.66 | 2.00 | 0.00 | 2.67 | 0.02 | 0.00 | 14.68 | 2.00 | 0.00 | 2.66 | 0.02 | 0.00 |
| 14.70 | 2.00 | 0.00 | 2.65 | 0.02 | 0.00 | 14.72 | 2.00 | 0.00 | 2.64 | 0.02 | 0.00 |
| 14.74 | 2.00 | 0.00 | 2.63 | 0.02 | 0.00 | 14.76 | 2.00 | 0.00 | 2.62 | 0.02 | 0.00 |
| 14.78 | 2.00 | 0.00 | 2.61 | 0.02 | 0.00 | 14.80 | 2.00 | 0.00 | 2.60 | 0.02 | 0.00 |
| 14.82 | 2.00 | 0.00 | 2.59 | 0.02 | 0.00 | 14.84 | 2.00 | 0.00 | 2.58 | 0.02 | 0.00 |
| 14.86 | 2.00 | 0.00 | 2.57 | 0.02 | 0.00 | 14.88 | 2.00 | 0.00 | 2.56 | 0.02 | 0.00 |
| 14.90 | 2.00 | 0.00 | 2.55 | 0.02 | 0.00 | 14.92 | 2.00 | 0.00 | 2.54 | 0.02 | 0.00 |
| 14.94 | 2.00 | 0.00 | 2.53 | 0.02 | 0.00 | 14.96 | 2.00 | 0.00 | 2.52 | 0.02 | 0.00 |
| 14.98 | 2.00 | 0.00 | 2.51 | 0.02 | 0.00 | 15.00 | 2.00 | 0.00 | 2.50 | 0.02 | 0.00 |
| 15.02 | 2.00 | 0.00 | 2.49 | 0.02 | 0.00 | 15.04 | 2.00 | 0.00 | 2.48 | 0.02 | 0.00 |
| 15.06 | 2.00 | 0.00 | 2.47 | 0.02 | 0.00 | 15.08 | 2.00 | 0.00 | 2.46 | 0.02 | 0.00 |
| 15.10 | 2.00 | 0.00 | 2.45 | 0.02 | 0.00 | 15.12 | 2.00 | 0.00 | 2.44 | 0.02 | 0.00 |
| 15.14 | 2.00 | 0.00 | 2.43 | 0.02 | 0.00 | 15.16 | 2.00 | 0.00 | 2.42 | 0.02 | 0.00 |
| 15.18 | 2.00 | 0.00 | 2.41 | 0.02 | 0.00 | 15.20 | 2.00 | 0.00 | 2.40 | 0.02 | 0.00 |
| 15.22 | 2.00 | 0.00 | 2.39 | 0.02 | 0.00 | 15.24 | 2.00 | 0.00 | 2.38 | 0.02 | 0.00 |
| 15.26 | 2.00 | 0.00 | 2.37 | 0.02 | 0.00 | 15.28 | 2.00 | 0.00 | 2.36 | 0.02 | 0.00 |
| 15.30 | 2.00 | 0.00 | 2.35 | 0.02 | 0.00 | 15.32 | 2.00 | 0.00 | 2.34 | 0.02 | 0.00 |
| 15.34 | 2.00 | 0.00 | 2.33 | 0.02 | 0.00 | 15.36 | 2.00 | 0.00 | 2.32 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 15.38 | 2.00 | 0.00 | 2.31 | 0.02 | 0.00 | 15.40 | 2.00 | 0.00 | 2.30 | 0.02 | 0.00 |
| 15.42 | 2.00 | 0.00 | 2.29 | 0.02 | 0.00 | 15.44 | 2.00 | 0.00 | 2.28 | 0.02 | 0.00 |
| 15.46 | 2.00 | 0.00 | 2.27 | 0.02 | 0.00 | 15.48 | 2.00 | 0.00 | 2.26 | 0.02 | 0.00 |
| 15.50 | 2.00 | 0.00 | 2.25 | 0.02 | 0.00 | 15.52 | 2.00 | 0.00 | 2.24 | 0.02 | 0.00 |
| 15.54 | 2.00 | 0.00 | 2.23 | 0.02 | 0.00 | 15.56 | 2.00 | 0.00 | 2.22 | 0.02 | 0.00 |
| 15.58 | 2.00 | 0.00 | 2.21 | 0.02 | 0.00 | 15.60 | 2.00 | 0.00 | 2.20 | 0.02 | 0.00 |
| 15.62 | 2.00 | 0.00 | 2.19 | 0.02 | 0.00 | 15.64 | 2.00 | 0.00 | 2.18 | 0.02 | 0.00 |
| 15.66 | 2.00 | 0.00 | 2.17 | 0.02 | 0.00 | 15.68 | 2.00 | 0.00 | 2.16 | 0.02 | 0.00 |
| 15.70 | 2.00 | 0.00 | 2.15 | 0.02 | 0.00 | 15.72 | 2.00 | 0.00 | 2.14 | 0.02 | 0.00 |
| 15.74 | 2.00 | 0.00 | 2.13 | 0.02 | 0.00 | 15.76 | 2.00 | 0.00 | 2.12 | 0.02 | 0.00 |
| 15.78 | 2.00 | 0.00 | 2.11 | 0.02 | 0.00 | 15.80 | 2.00 | 0.00 | 2.10 | 0.02 | 0.00 |
| 15.82 | 2.00 | 0.00 | 2.09 | 0.02 | 0.00 | 15.84 | 2.00 | 0.00 | 2.08 | 0.02 | 0.00 |
| 15.86 | 2.00 | 0.00 | 2.07 | 0.02 | 0.00 | 15.88 | 2.00 | 0.00 | 2.06 | 0.02 | 0.00 |
| 15.90 | 2.00 | 0.00 | 2.05 | 0.02 | 0.00 | 15.92 | 2.00 | 0.00 | 2.04 | 0.02 | 0.00 |
| 15.94 | 2.00 | 0.00 | 2.03 | 0.02 | 0.00 | 15.96 | 2.00 | 0.00 | 2.02 | 0.02 | 0.00 |
| 15.98 | 2.00 | 0.00 | 2.01 | 0.02 | 0.00 | 16.00 | 2.00 | 0.00 | 2.00 | 0.02 | 0.00 |
| 16.02 | 2.00 | 0.00 | 1.99 | 0.02 | 0.00 | 16.04 | 2.00 | 0.00 | 1.98 | 0.02 | 0.00 |
| 16.06 | 2.00 | 0.00 | 1.97 | 0.02 | 0.00 | 16.08 | 2.00 | 0.00 | 1.96 | 0.02 | 0.00 |
| 16.10 | 2.00 | 0.00 | 1.95 | 0.02 | 0.00 | 16.12 | 2.00 | 0.00 | 1.94 | 0.02 | 0.00 |
| 16.14 | 2.00 | 0.00 | 1.93 | 0.02 | 0.00 | 16.16 | 2.00 | 0.00 | 1.92 | 0.02 | 0.00 |
| 16.18 | 2.00 | 0.00 | 1.91 | 0.02 | 0.00 | 16.20 | 2.00 | 0.00 | 1.90 | 0.02 | 0.00 |
| 16.22 | 2.00 | 0.00 | 1.89 | 0.02 | 0.00 | 16.24 | 2.00 | 0.00 | 1.88 | 0.02 | 0.00 |
| 16.26 | 2.00 | 0.00 | 1.87 | 0.02 | 0.00 | 16.28 | 2.00 | 0.00 | 1.86 | 0.02 | 0.00 |
| 16.30 | 2.00 | 0.00 | 1.85 | 0.02 | 0.00 | 16.32 | 2.00 | 0.00 | 1.84 | 0.02 | 0.00 |
| 16.34 | 2.00 | 0.00 | 1.83 | 0.02 | 0.00 | 16.36 | 2.00 | 0.00 | 1.82 | 0.02 | 0.00 |
| 16.38 | 2.00 | 0.00 | 1.81 | 0.02 | 0.00 | 16.40 | 2.00 | 0.00 | 1.80 | 0.02 | 0.00 |
| 16.42 | 2.00 | 0.00 | 1.79 | 0.02 | 0.00 | 16.44 | 2.00 | 0.00 | 1.78 | 0.02 | 0.00 |
| 16.46 | 2.00 | 0.00 | 1.77 | 0.02 | 0.00 | 16.48 | 2.00 | 0.00 | 1.76 | 0.02 | 0.00 |
| 16.50 | 2.00 | 0.00 | 1.75 | 0.02 | 0.00 | 16.52 | 2.00 | 0.00 | 1.74 | 0.02 | 0.00 |
| 16.54 | 1.34 | 0.00 | 1.73 | 0.02 | 0.00 | 16.56 | 1.30 | 0.00 | 1.72 | 0.02 | 0.00 |
| 16.58 | 1.31 | 0.00 | 1.71 | 0.02 | 0.00 | 16.60 | 1.31 | 0.00 | 1.70 | 0.02 | 0.00 |
| 16.62 | 1.31 | 0.00 | 1.69 | 0.02 | 0.00 | 16.64 | 1.30 | 0.00 | 1.68 | 0.02 | 0.00 |
| 16.66 | 1.29 | 0.00 | 1.67 | 0.02 | 0.00 | 16.68 | 1.28 | 0.00 | 1.66 | 0.02 | 0.00 |
| 16.70 | 1.28 | 0.00 | 1.65 | 0.02 | 0.00 | 16.72 | 1.28 | 0.00 | 1.64 | 0.02 | 0.00 |
| 16.74 | 1.27 | 0.00 | 1.63 | 0.02 | 0.00 | 16.76 | 1.26 | 0.00 | 1.62 | 0.02 | 0.00 |
| 16.78 | 1.25 | 0.00 | 1.61 | 0.02 | 0.00 | 16.80 | 1.24 | 0.00 | 1.60 | 0.02 | 0.00 |
| 16.82 | 1.25 | 0.00 | 1.59 | 0.02 | 0.00 | 16.84 | 1.28 | 0.00 | 1.58 | 0.02 | 0.00 |
| 16.86 | 1.31 | 0.00 | 1.57 | 0.02 | 0.00 | 16.88 | 1.32 | 0.00 | 1.56 | 0.02 | 0.00 |
| 16.90 | 1.32 | 0.00 | 1.55 | 0.02 | 0.00 | 16.92 | 1.32 | 0.00 | 1.54 | 0.02 | 0.00 |
| 16.94 | 1.31 | 0.00 | 1.53 | 0.02 | 0.00 | 16.96 | 1.30 | 0.00 | 1.52 | 0.02 | 0.00 |
| 16.98 | 1.31 | 0.00 | 1.51 | 0.02 | 0.00 | 17.00 | 1.32 | 0.00 | 1.50 | 0.02 | 0.00 |
| 17.02 | 1.36 | 0.00 | 1.49 | 0.02 | 0.00 | 17.04 | 1.42 | 0.00 | 1.48 | 0.02 | 0.00 |
| 17.06 | 1.50 | 0.00 | 1.47 | 0.02 | 0.00 | 17.08 | 2.00 | 0.00 | 1.46 | 0.02 | 0.00 |
| 17.10 | 2.00 | 0.00 | 1.45 | 0.02 | 0.00 | 17.12 | 2.00 | 0.00 | 1.44 | 0.02 | 0.00 |
| 17.14 | 2.00 | 0.00 | 1.43 | 0.02 | 0.00 | 17.16 | 2.00 | 0.00 | 1.42 | 0.02 | 0.00 |
| 17.18 | 2.00 | 0.00 | 1.41 | 0.02 | 0.00 | 17.20 | 2.00 | 0.00 | 1.40 | 0.02 | 0.00 |
| 17.22 | 2.00 | 0.00 | 1.39 | 0.02 | 0.00 | 17.24 | 2.00 | 0.00 | 1.38 | 0.02 | 0.00 |
| 17.26 | 2.00 | 0.00 | 1.37 | 0.02 | 0.00 | 17.28 | 2.00 | 0.00 | 1.36 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 17.30 | 2.00 | 0.00 | 1.35 | 0.02 | 0.00 | 17.32 | 2.00 | 0.00 | 1.34 | 0.02 | 0.00 |
| 17.34 | 2.00 | 0.00 | 1.33 | 0.02 | 0.00 | 17.36 | 2.00 | 0.00 | 1.32 | 0.02 | 0.00 |
| 17.38 | 2.00 | 0.00 | 1.31 | 0.02 | 0.00 | 17.40 | 2.00 | 0.00 | 1.30 | 0.02 | 0.00 |
| 17.42 | 2.00 | 0.00 | 1.29 | 0.02 | 0.00 | 17.44 | 2.00 | 0.00 | 1.28 | 0.02 | 0.00 |
| 17.46 | 2.00 | 0.00 | 1.27 | 0.02 | 0.00 | 17.48 | 2.00 | 0.00 | 1.26 | 0.02 | 0.00 |
| 17.50 | 2.00 | 0.00 | 1.25 | 0.02 | 0.00 | 17.52 | 2.00 | 0.00 | 1.24 | 0.02 | 0.00 |
| 17.54 | 2.00 | 0.00 | 1.23 | 0.02 | 0.00 | 17.56 | 2.00 | 0.00 | 1.22 | 0.02 | 0.00 |
| 17.58 | 2.00 | 0.00 | 1.21 | 0.02 | 0.00 | 17.60 | 2.00 | 0.00 | 1.20 | 0.02 | 0.00 |
| 17.62 | 2.00 | 0.00 | 1.19 | 0.02 | 0.00 | 17.64 | 2.00 | 0.00 | 1.18 | 0.02 | 0.00 |
| 17.66 | 2.00 | 0.00 | 1.17 | 0.02 | 0.00 | 17.68 | 2.00 | 0.00 | 1.16 | 0.02 | 0.00 |
| 17.70 | 2.00 | 0.00 | 1.15 | 0.02 | 0.00 | 17.72 | 2.00 | 0.00 | 1.14 | 0.02 | 0.00 |
| 17.74 | 2.00 | 0.00 | 1.13 | 0.02 | 0.00 | 17.76 | 2.00 | 0.00 | 1.12 | 0.02 | 0.00 |
| 17.78 | 2.00 | 0.00 | 1.11 | 0.02 | 0.00 | 17.80 | 2.00 | 0.00 | 1.10 | 0.02 | 0.00 |
| 17.82 | 2.00 | 0.00 | 1.09 | 0.02 | 0.00 | 17.84 | 2.00 | 0.00 | 1.08 | 0.02 | 0.00 |
| 17.86 | 2.00 | 0.00 | 1.07 | 0.02 | 0.00 | 17.88 | 2.00 | 0.00 | 1.06 | 0.02 | 0.00 |
| 17.90 | 2.00 | 0.00 | 1.05 | 0.02 | 0.00 | 17.92 | 2.00 | 0.00 | 1.04 | 0.02 | 0.00 |
| 17.94 | 2.00 | 0.00 | 1.03 | 0.02 | 0.00 | 17.96 | 2.00 | 0.00 | 1.02 | 0.02 | 0.00 |
| 17.98 | 2.00 | 0.00 | 1.01 | 0.02 | 0.00 | 18.00 | 2.00 | 0.00 | 1.00 | 0.02 | 0.00 |
| 18.02 | 2.00 | 0.00 | 0.99 | 0.02 | 0.00 | 18.04 | 2.00 | 0.00 | 0.98 | 0.02 | 0.00 |
| 18.06 | 2.00 | 0.00 | 0.97 | 0.02 | 0.00 | 18.08 | 2.00 | 0.00 | 0.96 | 0.02 | 0.00 |
| 18.10 | 2.00 | 0.00 | 0.95 | 0.02 | 0.00 | 18.12 | 2.00 | 0.00 | 0.94 | 0.02 | 0.00 |
| 18.14 | 2.00 | 0.00 | 0.93 | 0.02 | 0.00 | 18.16 | 2.00 | 0.00 | 0.92 | 0.02 | 0.00 |
| 18.18 | 2.00 | 0.00 | 0.91 | 0.02 | 0.00 | 18.20 | 2.00 | 0.00 | 0.90 | 0.02 | 0.00 |
| 18.22 | 2.00 | 0.00 | 0.89 | 0.02 | 0.00 | 18.24 | 2.00 | 0.00 | 0.88 | 0.02 | 0.00 |
| 18.26 | 2.00 | 0.00 | 0.87 | 0.02 | 0.00 | 18.28 | 2.00 | 0.00 | 0.86 | 0.02 | 0.00 |
| 18.30 | 2.00 | 0.00 | 0.85 | 0.02 | 0.00 | 18.32 | 2.00 | 0.00 | 0.84 | 0.02 | 0.00 |
| 18.34 | 2.00 | 0.00 | 0.83 | 0.02 | 0.00 | 18.36 | 2.00 | 0.00 | 0.82 | 0.02 | 0.00 |
| 18.38 | 2.00 | 0.00 | 0.81 | 0.02 | 0.00 | 18.40 | 2.00 | 0.00 | 0.80 | 0.02 | 0.00 |
| 18.42 | 2.00 | 0.00 | 0.79 | 0.02 | 0.00 | 18.44 | 2.00 | 0.00 | 0.78 | 0.02 | 0.00 |
| 18.46 | 2.00 | 0.00 | 0.77 | 0.02 | 0.00 | 18.48 | 2.00 | 0.00 | 0.76 | 0.02 | 0.00 |
| 18.50 | 2.00 | 0.00 | 0.75 | 0.02 | 0.00 | 18.52 | 2.00 | 0.00 | 0.74 | 0.02 | 0.00 |
| 18.54 | 2.00 | 0.00 | 0.73 | 0.02 | 0.00 | 18.56 | 2.00 | 0.00 | 0.72 | 0.02 | 0.00 |
| 18.58 | 2.00 | 0.00 | 0.71 | 0.02 | 0.00 | 18.60 | 2.00 | 0.00 | 0.70 | 0.02 | 0.00 |
| 18.62 | 2.00 | 0.00 | 0.69 | 0.02 | 0.00 | 18.64 | 2.00 | 0.00 | 0.68 | 0.02 | 0.00 |
| 18.66 | 2.00 | 0.00 | 0.67 | 0.02 | 0.00 | 18.68 | 2.00 | 0.00 | 0.66 | 0.02 | 0.00 |
| 18.70 | 2.00 | 0.00 | 0.65 | 0.02 | 0.00 | 18.72 | 2.00 | 0.00 | 0.64 | 0.02 | 0.00 |
| 18.74 | 2.00 | 0.00 | 0.63 | 0.02 | 0.00 | 18.76 | 2.00 | 0.00 | 0.62 | 0.02 | 0.00 |
| 18.78 | 2.00 | 0.00 | 0.61 | 0.02 | 0.00 | 18.80 | 2.00 | 0.00 | 0.60 | 0.02 | 0.00 |
| 18.82 | 2.00 | 0.00 | 0.59 | 0.02 | 0.00 | 18.84 | 2.00 | 0.00 | 0.58 | 0.02 | 0.00 |
| 18.86 | 2.00 | 0.00 | 0.57 | 0.02 | 0.00 | 18.88 | 2.00 | 0.00 | 0.56 | 0.02 | 0.00 |
| 18.90 | 2.00 | 0.00 | 0.55 | 0.02 | 0.00 | 18.92 | 2.00 | 0.00 | 0.54 | 0.02 | 0.00 |
| 18.94 | 2.00 | 0.00 | 0.53 | 0.02 | 0.00 | 18.96 | 2.00 | 0.00 | 0.52 | 0.02 | 0.00 |
| 18.98 | 2.00 | 0.00 | 0.51 | 0.02 | 0.00 | 19.00 | 2.00 | 0.00 | 0.50 | 0.02 | 0.00 |
| 19.02 | 2.00 | 0.00 | 0.49 | 0.02 | 0.00 | 19.04 | 2.00 | 0.00 | 0.48 | 0.02 | 0.00 |
| 19.06 | 2.00 | 0.00 | 0.47 | 0.02 | 0.00 | 19.08 | 2.00 | 0.00 | 0.46 | 0.02 | 0.00 |
| 19.10 | 2.00 | 0.00 | 0.45 | 0.02 | 0.00 | 19.12 | 2.00 | 0.00 | 0.44 | 0.02 | 0.00 |
| 19.14 | 2.00 | 0.00 | 0.43 | 0.02 | 0.00 | 19.16 | 2.00 | 0.00 | 0.42 | 0.02 | 0.00 |
| 19.18 | 2.00 | 0.00 | 0.41 | 0.02 | 0.00 | 19.20 | 2.00 | 0.00 | 0.40 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 19.22 | 2.00 | 0.00 | 0.39 | 0.02 | 0.00 | 19.24 | 2.00 | 0.00 | 0.38 | 0.02 | 0.00 |
| 19.26 | 2.00 | 0.00 | 0.37 | 0.02 | 0.00 | 19.28 | 2.00 | 0.00 | 0.36 | 0.02 | 0.00 |
| 19.30 | 2.00 | 0.00 | 0.35 | 0.02 | 0.00 | 19.32 | 2.00 | 0.00 | 0.34 | 0.02 | 0.00 |
| 19.34 | 2.00 | 0.00 | 0.33 | 0.02 | 0.00 | 19.36 | 2.00 | 0.00 | 0.32 | 0.02 | 0.00 |
| 19.38 | 1.43 | 0.00 | 0.31 | 0.02 | 0.00 | 19.40 | 1.40 | 0.00 | 0.30 | 0.02 | 0.00 |
| 19.42 | 1.37 | 0.00 | 0.29 | 0.02 | 0.00 | 19.44 | 1.37 | 0.00 | 0.28 | 0.02 | 0.00 |
| 19.46 | 1.40 | 0.00 | 0.27 | 0.02 | 0.00 | 19.48 | 2.00 | 0.00 | 0.26 | 0.02 | 0.00 |
| 19.50 | 2.00 | 0.00 | 0.25 | 0.02 | 0.00 | 19.52 | 2.00 | 0.00 | 0.24 | 0.02 | 0.00 |
| 19.54 | 2.00 | 0.00 | 0.23 | 0.02 | 0.00 | 19.56 | 2.00 | 0.00 | 0.22 | 0.02 | 0.00 |
| 19.58 | 1.35 | 0.00 | 0.21 | 0.02 | 0.00 | 19.60 | 1.40 | 0.00 | 0.20 | 0.02 | 0.00 |
| 19.62 | 2.00 | 0.00 | 0.19 | 0.02 | 0.00 | 19.64 | 2.00 | 0.00 | 0.18 | 0.02 | 0.00 |
| 19.66 | 2.00 | 0.00 | 0.17 | 0.02 | 0.00 | 19.68 | 2.00 | 0.00 | 0.16 | 0.02 | 0.00 |
| 19.70 | 2.00 | 0.00 | 0.15 | 0.02 | 0.00 | 19.72 | 2.00 | 0.00 | 0.14 | 0.02 | 0.00 |
| 19.74 | 2.00 | 0.00 | 0.13 | 0.02 | 0.00 | 19.76 | 2.00 | 0.00 | 0.12 | 0.02 | 0.00 |
| 19.78 | 2.00 | 0.00 | 0.11 | 0.02 | 0.00 | 19.80 | 2.00 | 0.00 | 0.10 | 0.02 | 0.00 |
| 19.82 | 2.00 | 0.00 | 0.09 | 0.02 | 0.00 | 19.84 | 2.00 | 0.00 | 0.08 | 0.02 | 0.00 |
| 19.86 | 2.00 | 0.00 | 0.07 | 0.02 | 0.00 | 19.88 | 2.00 | 0.00 | 0.06 | 0.02 | 0.00 |
| 19.90 | 2.00 | 0.00 | 0.05 | 0.02 | 0.00 | | | | | | |

Overall liquefaction potential: 0.05

LPI = 0.00 - Liquefaction risk very low
 LPI between 0.00 and 5.00 - Liquefaction risk low
 LPI between 5.00 and 15.00 - Liquefaction risk high
 LPI > 15.00 - Liquefaction risk very high

Abbreviations

FS: Calculated factor of safety for test point
 F_L: 1 - FS
 w_z: Function value of the extend of soil liquefaction according to depth
 d_z: Layer thickness (m)
 LPI: Liquefaction potential index value for test point

LIQUEFACTION ANALYSIS REPORT

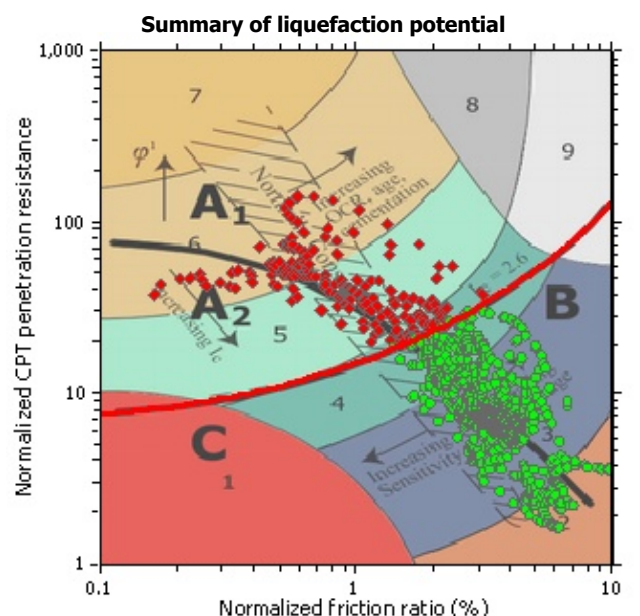
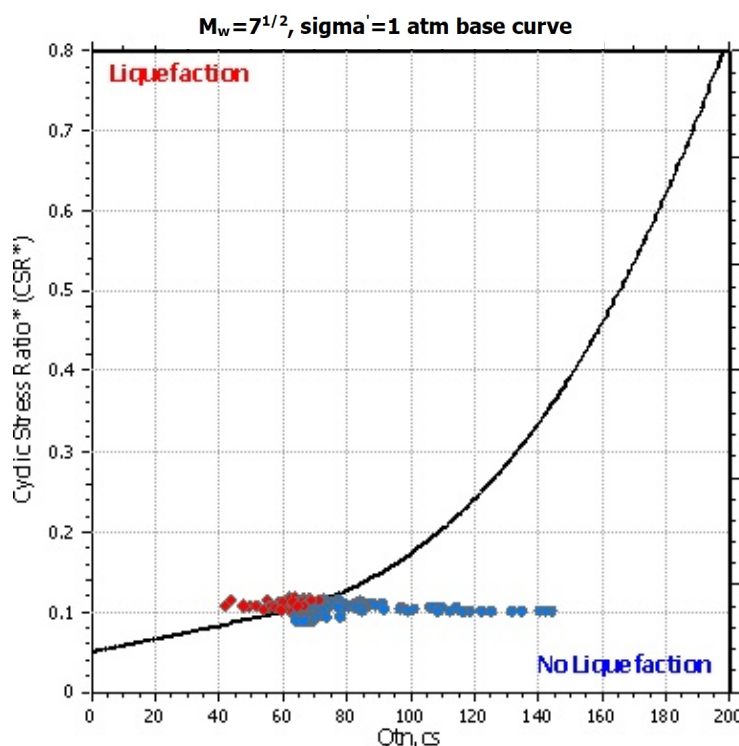
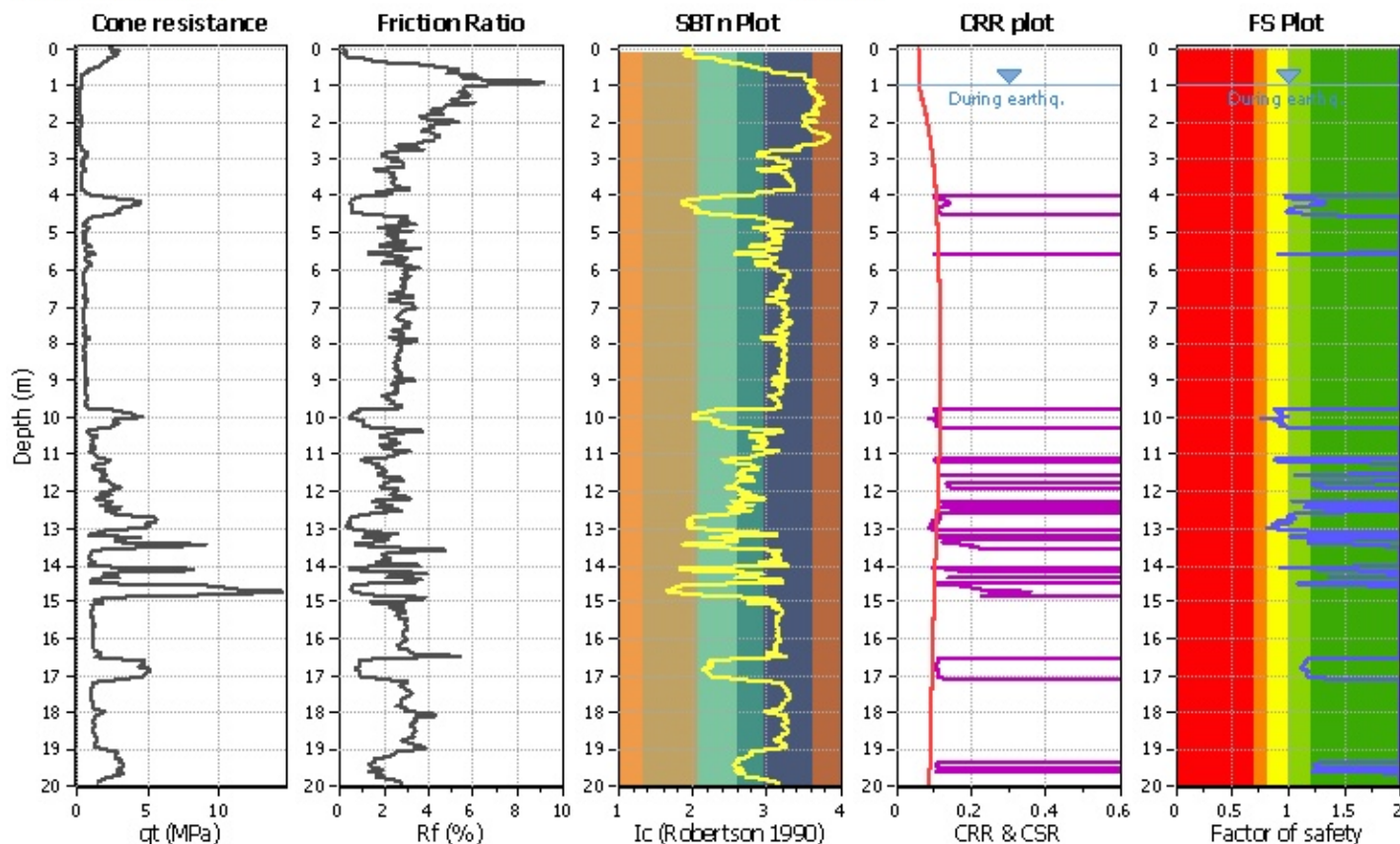
Project title :

Location :

CPT file : CPTU2

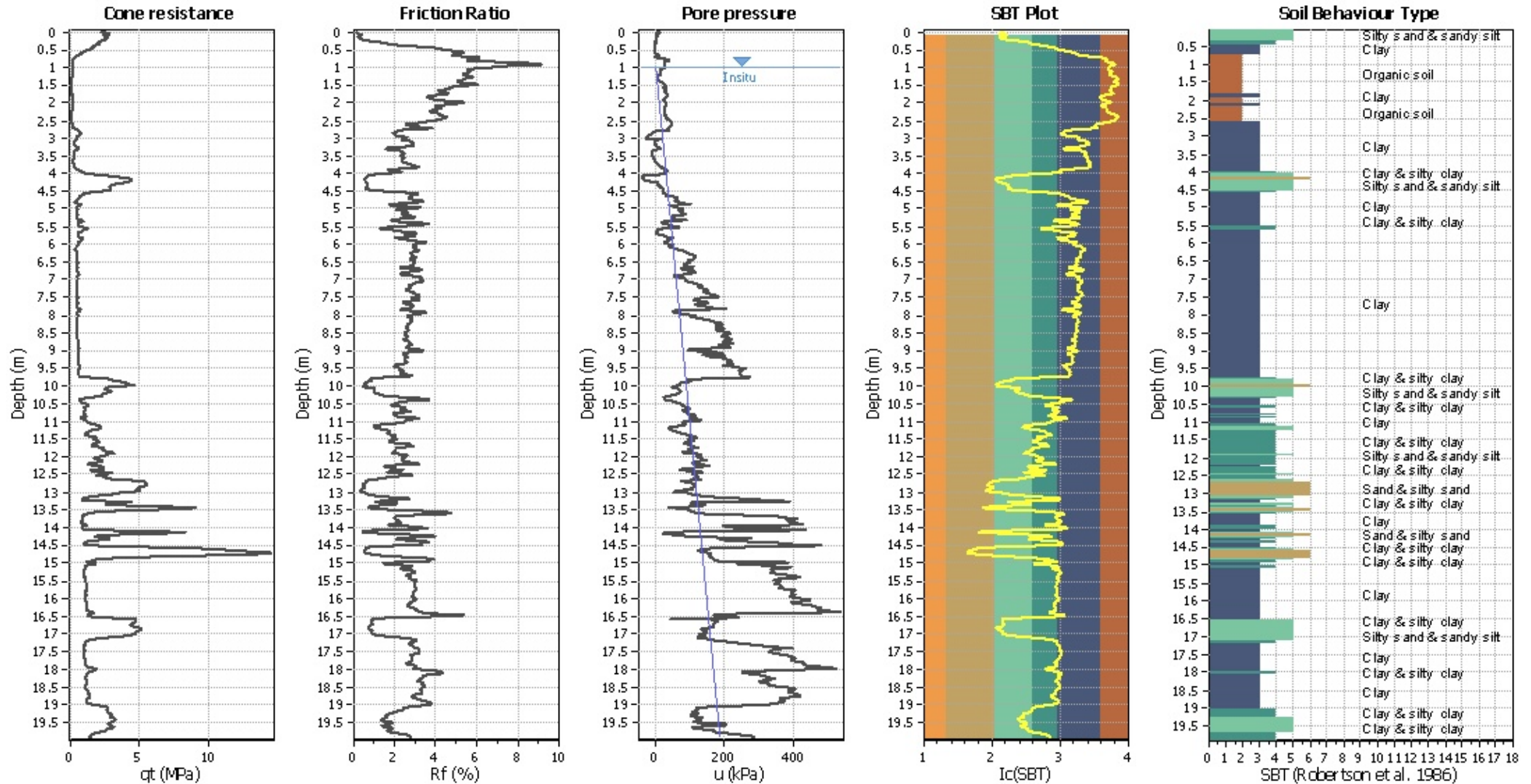
Input parameters and analysis data

| | | | | | | | |
|------------------------------|-------------------|---------------------------|--------------|-------------------------|-----|----------------------|--------------|
| Analysis method: | NCEER (1998) | G.W.T. (in-situ): | 1.00 m | Use fill: | No | Clay like behavior | |
| Fines correction method: | NCEER (1998) | G.W.T. (earthq.): | 1.00 m | Fill height: | N/A | applied: | Sands only |
| Points to test: | Based on Ic value | Average results interval: | 3 | Fill weight: | N/A | Limit depth applied: | No |
| Earthquake magnitude M_w : | 5.75 | Ic cut-off value: | 2.60 | Trans. detect. applied: | No | Limit depth: | N/A |
| Peak ground acceleration: | 0.17 | Unit weight calculation: | Based on SBT | K_0 applied: | Yes | MSF method: | Method based |



Zone A₁: Cyclic liquefaction likely depending on size and duration of cyclic loading
 Zone A₂: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
 Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
 Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

CPT basic interpretation plo



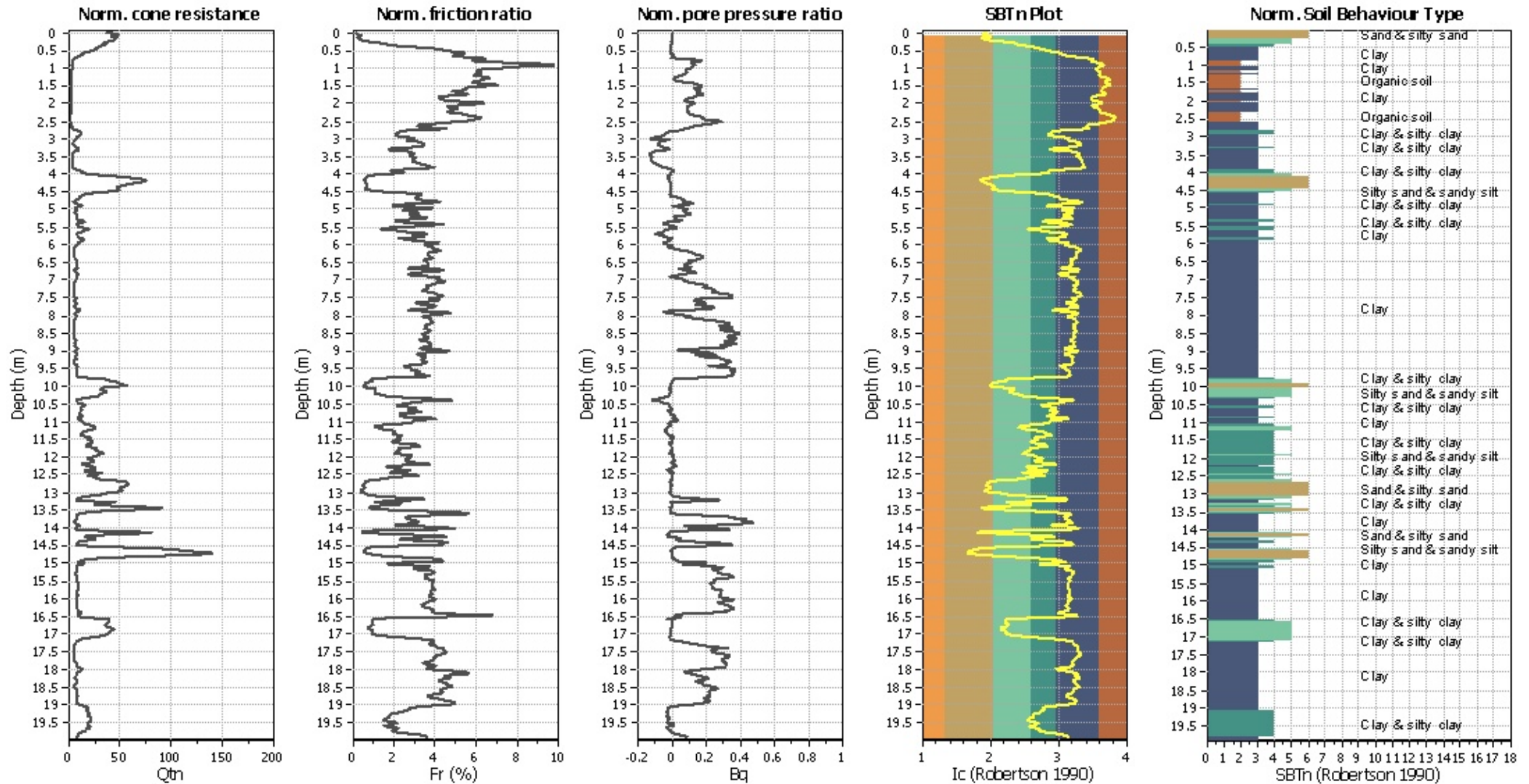
Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 5.75 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

SBT legend

| | | |
|---------------------------|-----------------------------|----------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty | 7. Gravely sand to sand |
| 2. Organic material | 5. Silty sand to sandy silt | 8. Very stiff sand to |
| 3. Clay to silty clay | 6. Clean sand to silty sand | 9. Very stiff fine grained |

CPT basic interpretation plots (normaliz



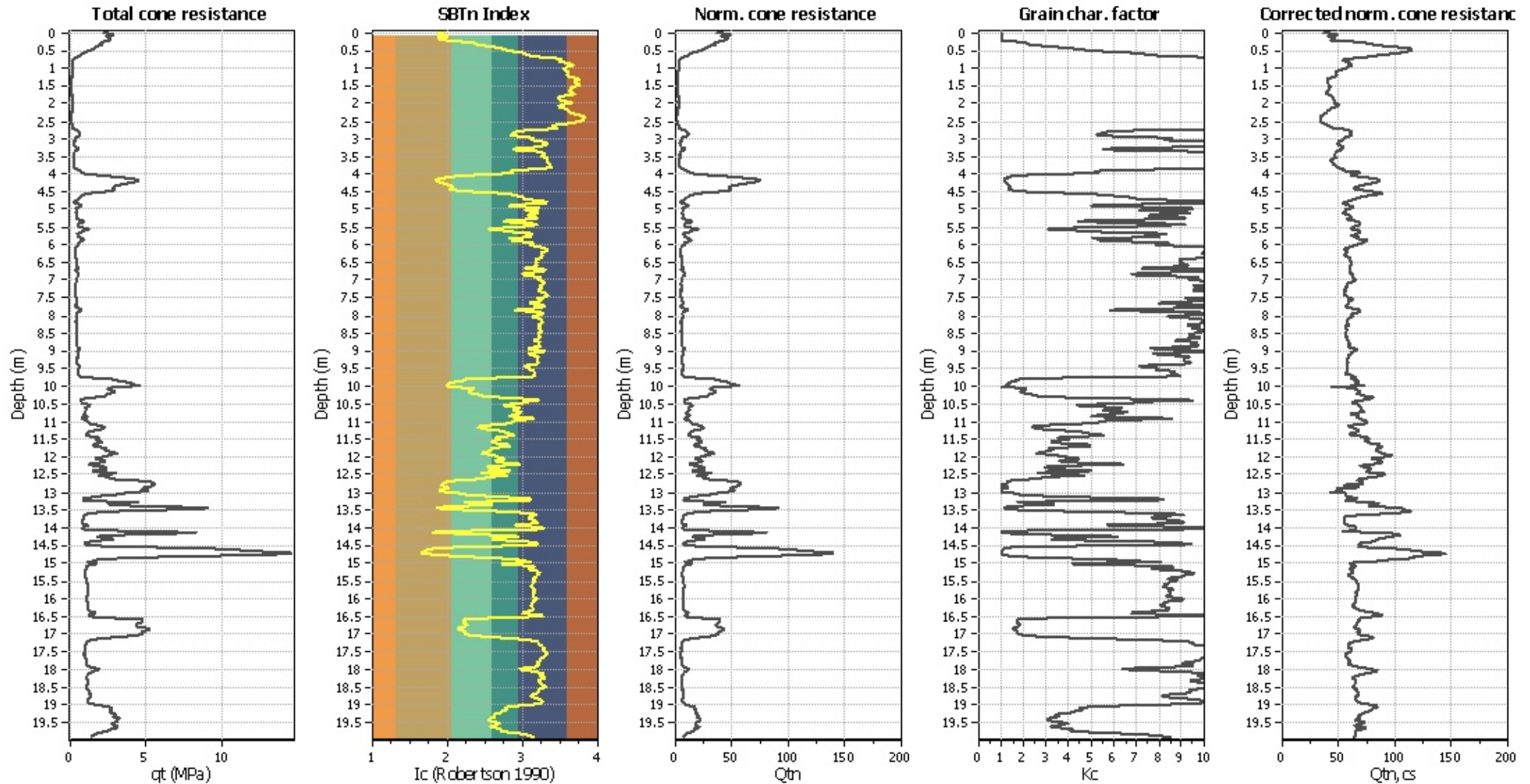
Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 5.75 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

SBTn legend

| | | |
|---------------------------|-----------------------------|----------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty | 7. Gravely sand to sand |
| 2. Organic material | 5. Silty sand to sandy silt | 8. Very stiff sand to |
| 3. Clay to silty clay | 6. Clean sand to silty sand | 9. Very stiff fine grained |

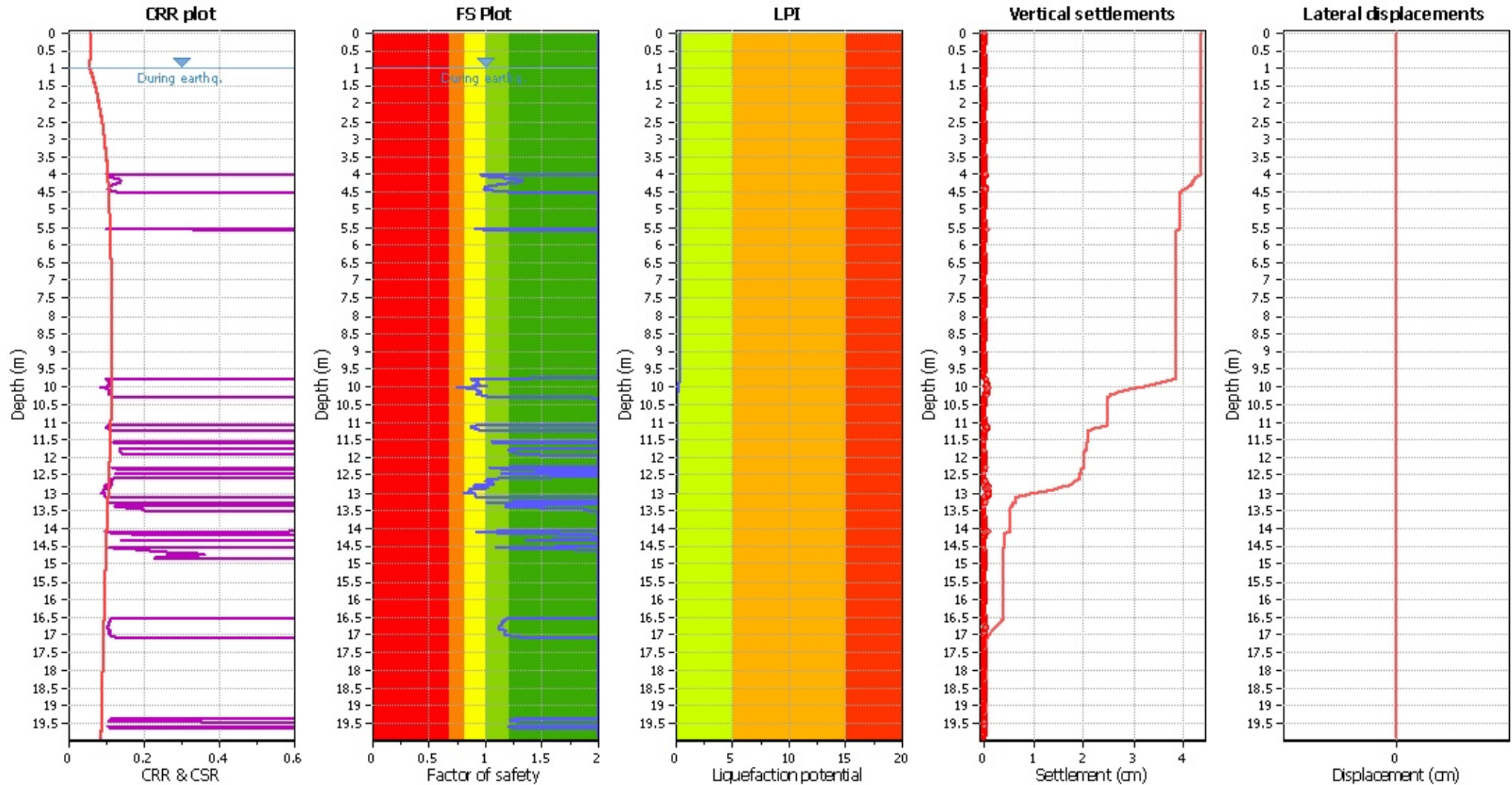
Liquefaction analysis overall plots (intermediate res)



Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_{σ} applied: | Yes |
| Earthquake magnitude M_w : | 5.75 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

Liquefaction analysis overall plot



Input parameters and analysis data

| | | | | | |
|--------------------------------|-------------------|---------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (earthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 5.75 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

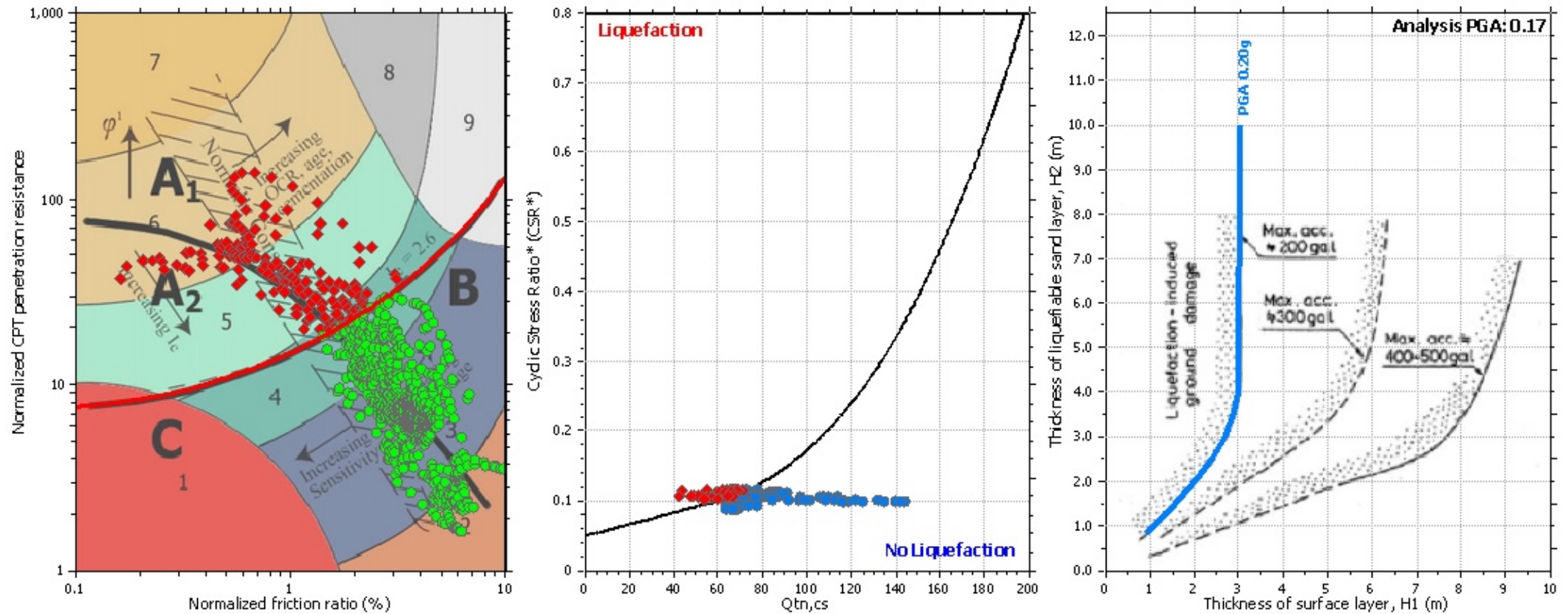
F.S. color scheme

| | |
|------------|---|
| Red | Almost certain it will liquefy |
| Orange | Very likely to liquefy |
| Yellow | Liquefaction and no liq. are equally likely |
| Green | Unlike to liquefy |
| Dark Green | Almost certain it will not liquefy |

LPI color scheme

| | |
|--------|----------------|
| Red | Very high risk |
| Orange | High risk |
| Yellow | Low risk |

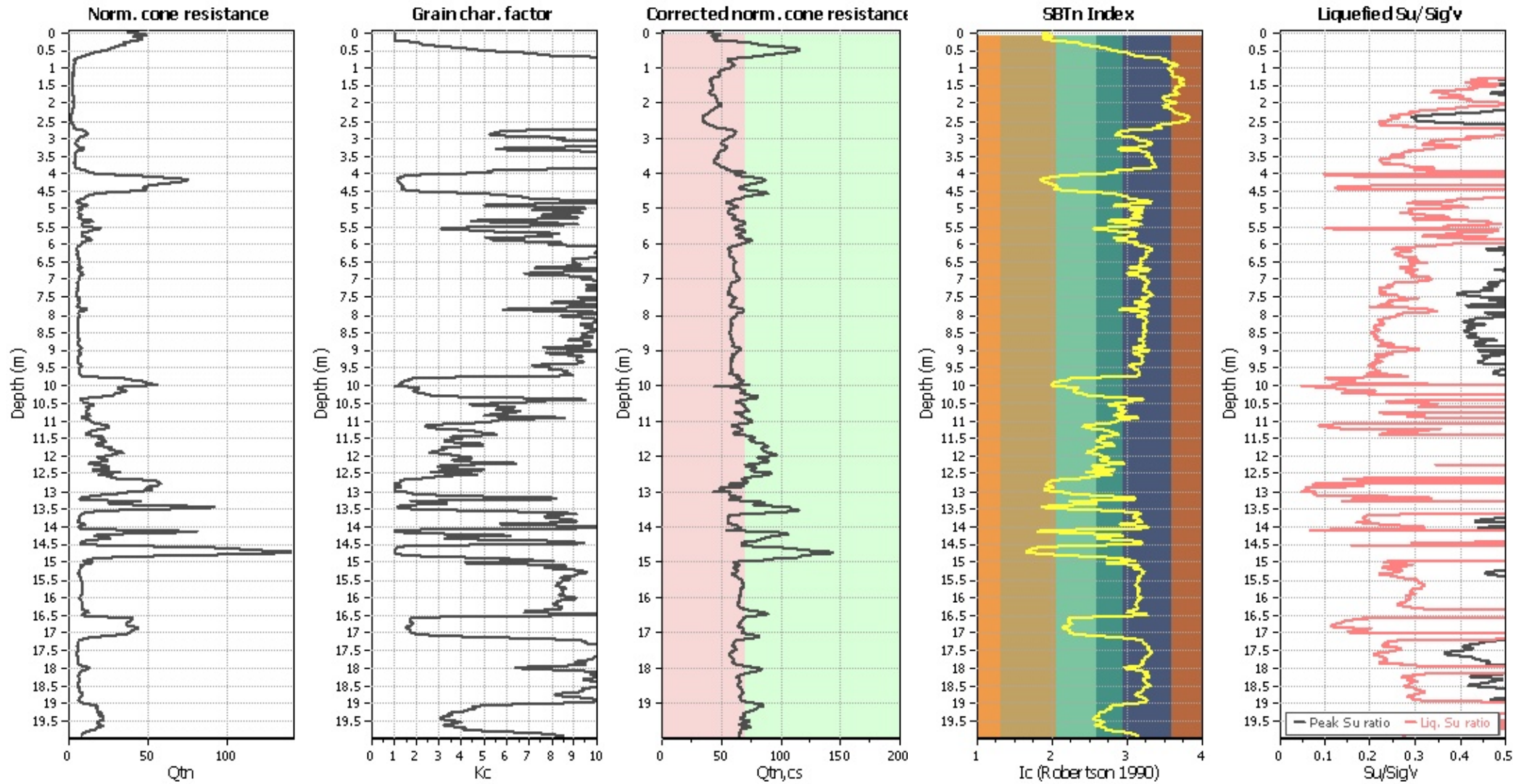
Liquefaction analysis summary plo



Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 5.75 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

Check for strength loss plots (Robertson (2010))



Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_o applied: | Yes |
| Earthquake magnitude M_w : | 5.75 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

| :: Liquefaction Potential Index calculation data :: | | | | | | | | | | | |
|---|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
| 0.02 | 2.00 | 0.00 | 9.99 | 0.02 | 0.00 | 0.04 | 2.00 | 0.00 | 9.98 | 0.02 | 0.00 |
| 0.06 | 2.00 | 0.00 | 9.97 | 0.02 | 0.00 | 0.08 | 2.00 | 0.00 | 9.96 | 0.02 | 0.00 |
| 0.10 | 2.00 | 0.00 | 9.95 | 0.02 | 0.00 | 0.12 | 2.00 | 0.00 | 9.94 | 0.02 | 0.00 |
| 0.14 | 2.00 | 0.00 | 9.93 | 0.02 | 0.00 | 0.16 | 2.00 | 0.00 | 9.92 | 0.02 | 0.00 |
| 0.18 | 2.00 | 0.00 | 9.91 | 0.02 | 0.00 | 0.20 | 2.00 | 0.00 | 9.90 | 0.02 | 0.00 |
| 0.22 | 2.00 | 0.00 | 9.89 | 0.02 | 0.00 | 0.24 | 2.00 | 0.00 | 9.88 | 0.02 | 0.00 |
| 0.26 | 2.00 | 0.00 | 9.87 | 0.02 | 0.00 | 0.28 | 2.00 | 0.00 | 9.86 | 0.02 | 0.00 |
| 0.30 | 2.00 | 0.00 | 9.85 | 0.02 | 0.00 | 0.32 | 2.00 | 0.00 | 9.84 | 0.02 | 0.00 |
| 0.34 | 2.00 | 0.00 | 9.83 | 0.02 | 0.00 | 0.36 | 2.00 | 0.00 | 9.82 | 0.02 | 0.00 |
| 0.38 | 2.00 | 0.00 | 9.81 | 0.02 | 0.00 | 0.40 | 2.00 | 0.00 | 9.80 | 0.02 | 0.00 |
| 0.42 | 2.00 | 0.00 | 9.79 | 0.02 | 0.00 | 0.44 | 2.00 | 0.00 | 9.78 | 0.02 | 0.00 |
| 0.46 | 2.00 | 0.00 | 9.77 | 0.02 | 0.00 | 0.48 | 2.00 | 0.00 | 9.76 | 0.02 | 0.00 |
| 0.50 | 2.00 | 0.00 | 9.75 | 0.02 | 0.00 | 0.52 | 2.00 | 0.00 | 9.74 | 0.02 | 0.00 |
| 0.54 | 2.00 | 0.00 | 9.73 | 0.02 | 0.00 | 0.56 | 2.00 | 0.00 | 9.72 | 0.02 | 0.00 |
| 0.58 | 2.00 | 0.00 | 9.71 | 0.02 | 0.00 | 0.60 | 2.00 | 0.00 | 9.70 | 0.02 | 0.00 |
| 0.62 | 2.00 | 0.00 | 9.69 | 0.02 | 0.00 | 0.64 | 2.00 | 0.00 | 9.68 | 0.02 | 0.00 |
| 0.66 | 2.00 | 0.00 | 9.67 | 0.02 | 0.00 | 0.68 | 2.00 | 0.00 | 9.66 | 0.02 | 0.00 |
| 0.70 | 2.00 | 0.00 | 9.65 | 0.02 | 0.00 | 0.72 | 2.00 | 0.00 | 9.64 | 0.02 | 0.00 |
| 0.74 | 2.00 | 0.00 | 9.63 | 0.02 | 0.00 | 0.76 | 2.00 | 0.00 | 9.62 | 0.02 | 0.00 |
| 0.78 | 2.00 | 0.00 | 9.61 | 0.02 | 0.00 | 0.80 | 2.00 | 0.00 | 9.60 | 0.02 | 0.00 |
| 0.82 | 2.00 | 0.00 | 9.59 | 0.02 | 0.00 | 0.84 | 2.00 | 0.00 | 9.58 | 0.02 | 0.00 |
| 0.86 | 2.00 | 0.00 | 9.57 | 0.02 | 0.00 | 0.88 | 2.00 | 0.00 | 9.56 | 0.02 | 0.00 |
| 0.90 | 2.00 | 0.00 | 9.55 | 0.02 | 0.00 | 0.92 | 2.00 | 0.00 | 9.54 | 0.02 | 0.00 |
| 0.94 | 2.00 | 0.00 | 9.53 | 0.02 | 0.00 | 0.96 | 2.00 | 0.00 | 9.52 | 0.02 | 0.00 |
| 0.98 | 2.00 | 0.00 | 9.51 | 0.02 | 0.00 | 1.00 | 2.00 | 0.00 | 9.50 | 0.02 | 0.00 |
| 1.02 | 2.00 | 0.00 | 9.49 | 0.02 | 0.00 | 1.04 | 2.00 | 0.00 | 9.48 | 0.02 | 0.00 |
| 1.06 | 2.00 | 0.00 | 9.47 | 0.02 | 0.00 | 1.08 | 2.00 | 0.00 | 9.46 | 0.02 | 0.00 |
| 1.10 | 2.00 | 0.00 | 9.45 | 0.02 | 0.00 | 1.12 | 2.00 | 0.00 | 9.44 | 0.02 | 0.00 |
| 1.14 | 2.00 | 0.00 | 9.43 | 0.02 | 0.00 | 1.16 | 2.00 | 0.00 | 9.42 | 0.02 | 0.00 |
| 1.18 | 2.00 | 0.00 | 9.41 | 0.02 | 0.00 | 1.20 | 2.00 | 0.00 | 9.40 | 0.02 | 0.00 |
| 1.22 | 2.00 | 0.00 | 9.39 | 0.02 | 0.00 | 1.24 | 2.00 | 0.00 | 9.38 | 0.02 | 0.00 |
| 1.26 | 2.00 | 0.00 | 9.37 | 0.02 | 0.00 | 1.28 | 2.00 | 0.00 | 9.36 | 0.02 | 0.00 |
| 1.30 | 2.00 | 0.00 | 9.35 | 0.02 | 0.00 | 1.32 | 2.00 | 0.00 | 9.34 | 0.02 | 0.00 |
| 1.34 | 2.00 | 0.00 | 9.33 | 0.02 | 0.00 | 1.36 | 2.00 | 0.00 | 9.32 | 0.02 | 0.00 |
| 1.38 | 2.00 | 0.00 | 9.31 | 0.02 | 0.00 | 1.40 | 2.00 | 0.00 | 9.30 | 0.02 | 0.00 |
| 1.42 | 2.00 | 0.00 | 9.29 | 0.02 | 0.00 | 1.44 | 2.00 | 0.00 | 9.28 | 0.02 | 0.00 |
| 1.46 | 2.00 | 0.00 | 9.27 | 0.02 | 0.00 | 1.48 | 2.00 | 0.00 | 9.26 | 0.02 | 0.00 |
| 1.50 | 2.00 | 0.00 | 9.25 | 0.02 | 0.00 | 1.52 | 2.00 | 0.00 | 9.24 | 0.02 | 0.00 |
| 1.54 | 2.00 | 0.00 | 9.23 | 0.02 | 0.00 | 1.56 | 2.00 | 0.00 | 9.22 | 0.02 | 0.00 |
| 1.58 | 2.00 | 0.00 | 9.21 | 0.02 | 0.00 | 1.60 | 2.00 | 0.00 | 9.20 | 0.02 | 0.00 |
| 1.62 | 2.00 | 0.00 | 9.19 | 0.02 | 0.00 | 1.64 | 2.00 | 0.00 | 9.18 | 0.02 | 0.00 |
| 1.66 | 2.00 | 0.00 | 9.17 | 0.02 | 0.00 | 1.68 | 2.00 | 0.00 | 9.16 | 0.02 | 0.00 |
| 1.70 | 2.00 | 0.00 | 9.15 | 0.02 | 0.00 | 1.72 | 2.00 | 0.00 | 9.14 | 0.02 | 0.00 |
| 1.74 | 2.00 | 0.00 | 9.13 | 0.02 | 0.00 | 1.76 | 2.00 | 0.00 | 9.12 | 0.02 | 0.00 |
| 1.78 | 2.00 | 0.00 | 9.11 | 0.02 | 0.00 | 1.80 | 2.00 | 0.00 | 9.10 | 0.02 | 0.00 |
| 1.82 | 2.00 | 0.00 | 9.09 | 0.02 | 0.00 | 1.84 | 2.00 | 0.00 | 9.08 | 0.02 | 0.00 |
| 1.86 | 2.00 | 0.00 | 9.07 | 0.02 | 0.00 | 1.88 | 2.00 | 0.00 | 9.06 | 0.02 | 0.00 |
| 1.90 | 2.00 | 0.00 | 9.05 | 0.02 | 0.00 | 1.92 | 2.00 | 0.00 | 9.04 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 1.94 | 2.00 | 0.00 | 9.03 | 0.02 | 0.00 | 1.96 | 2.00 | 0.00 | 9.02 | 0.02 | 0.00 |
| 1.98 | 2.00 | 0.00 | 9.01 | 0.02 | 0.00 | 2.00 | 2.00 | 0.00 | 9.00 | 0.02 | 0.00 |
| 2.02 | 2.00 | 0.00 | 8.99 | 0.02 | 0.00 | 2.04 | 2.00 | 0.00 | 8.98 | 0.02 | 0.00 |
| 2.06 | 2.00 | 0.00 | 8.97 | 0.02 | 0.00 | 2.08 | 2.00 | 0.00 | 8.96 | 0.02 | 0.00 |
| 2.10 | 2.00 | 0.00 | 8.95 | 0.02 | 0.00 | 2.12 | 2.00 | 0.00 | 8.94 | 0.02 | 0.00 |
| 2.14 | 2.00 | 0.00 | 8.93 | 0.02 | 0.00 | 2.16 | 2.00 | 0.00 | 8.92 | 0.02 | 0.00 |
| 2.18 | 2.00 | 0.00 | 8.91 | 0.02 | 0.00 | 2.20 | 2.00 | 0.00 | 8.90 | 0.02 | 0.00 |
| 2.22 | 2.00 | 0.00 | 8.89 | 0.02 | 0.00 | 2.24 | 2.00 | 0.00 | 8.88 | 0.02 | 0.00 |
| 2.26 | 2.00 | 0.00 | 8.87 | 0.02 | 0.00 | 2.28 | 2.00 | 0.00 | 8.86 | 0.02 | 0.00 |
| 2.30 | 2.00 | 0.00 | 8.85 | 0.02 | 0.00 | 2.32 | 2.00 | 0.00 | 8.84 | 0.02 | 0.00 |
| 2.34 | 2.00 | 0.00 | 8.83 | 0.02 | 0.00 | 2.36 | 2.00 | 0.00 | 8.82 | 0.02 | 0.00 |
| 2.38 | 2.00 | 0.00 | 8.81 | 0.02 | 0.00 | 2.40 | 2.00 | 0.00 | 8.80 | 0.02 | 0.00 |
| 2.42 | 2.00 | 0.00 | 8.79 | 0.02 | 0.00 | 2.44 | 2.00 | 0.00 | 8.78 | 0.02 | 0.00 |
| 2.46 | 2.00 | 0.00 | 8.77 | 0.02 | 0.00 | 2.48 | 2.00 | 0.00 | 8.76 | 0.02 | 0.00 |
| 2.50 | 2.00 | 0.00 | 8.75 | 0.02 | 0.00 | 2.52 | 2.00 | 0.00 | 8.74 | 0.02 | 0.00 |
| 2.54 | 2.00 | 0.00 | 8.73 | 0.02 | 0.00 | 2.56 | 2.00 | 0.00 | 8.72 | 0.02 | 0.00 |
| 2.58 | 2.00 | 0.00 | 8.71 | 0.02 | 0.00 | 2.60 | 2.00 | 0.00 | 8.70 | 0.02 | 0.00 |
| 2.62 | 2.00 | 0.00 | 8.69 | 0.02 | 0.00 | 2.64 | 2.00 | 0.00 | 8.68 | 0.02 | 0.00 |
| 2.66 | 2.00 | 0.00 | 8.67 | 0.02 | 0.00 | 2.68 | 2.00 | 0.00 | 8.66 | 0.02 | 0.00 |
| 2.70 | 2.00 | 0.00 | 8.65 | 0.02 | 0.00 | 2.72 | 2.00 | 0.00 | 8.64 | 0.02 | 0.00 |
| 2.74 | 2.00 | 0.00 | 8.63 | 0.02 | 0.00 | 2.76 | 2.00 | 0.00 | 8.62 | 0.02 | 0.00 |
| 2.78 | 2.00 | 0.00 | 8.61 | 0.02 | 0.00 | 2.80 | 2.00 | 0.00 | 8.60 | 0.02 | 0.00 |
| 2.82 | 2.00 | 0.00 | 8.59 | 0.02 | 0.00 | 2.84 | 2.00 | 0.00 | 8.58 | 0.02 | 0.00 |
| 2.86 | 2.00 | 0.00 | 8.57 | 0.02 | 0.00 | 2.88 | 2.00 | 0.00 | 8.56 | 0.02 | 0.00 |
| 2.90 | 2.00 | 0.00 | 8.55 | 0.02 | 0.00 | 2.92 | 2.00 | 0.00 | 8.54 | 0.02 | 0.00 |
| 2.94 | 2.00 | 0.00 | 8.53 | 0.02 | 0.00 | 2.96 | 2.00 | 0.00 | 8.52 | 0.02 | 0.00 |
| 2.98 | 2.00 | 0.00 | 8.51 | 0.02 | 0.00 | 3.00 | 2.00 | 0.00 | 8.50 | 0.02 | 0.00 |
| 3.02 | 2.00 | 0.00 | 8.49 | 0.02 | 0.00 | 3.04 | 2.00 | 0.00 | 8.48 | 0.02 | 0.00 |
| 3.06 | 2.00 | 0.00 | 8.47 | 0.02 | 0.00 | 3.08 | 2.00 | 0.00 | 8.46 | 0.02 | 0.00 |
| 3.10 | 2.00 | 0.00 | 8.45 | 0.02 | 0.00 | 3.12 | 2.00 | 0.00 | 8.44 | 0.02 | 0.00 |
| 3.14 | 2.00 | 0.00 | 8.43 | 0.02 | 0.00 | 3.16 | 2.00 | 0.00 | 8.42 | 0.02 | 0.00 |
| 3.18 | 2.00 | 0.00 | 8.41 | 0.02 | 0.00 | 3.20 | 2.00 | 0.00 | 8.40 | 0.02 | 0.00 |
| 3.22 | 2.00 | 0.00 | 8.39 | 0.02 | 0.00 | 3.24 | 2.00 | 0.00 | 8.38 | 0.02 | 0.00 |
| 3.26 | 2.00 | 0.00 | 8.37 | 0.02 | 0.00 | 3.28 | 2.00 | 0.00 | 8.36 | 0.02 | 0.00 |
| 3.30 | 2.00 | 0.00 | 8.35 | 0.02 | 0.00 | 3.32 | 2.00 | 0.00 | 8.34 | 0.02 | 0.00 |
| 3.34 | 2.00 | 0.00 | 8.33 | 0.02 | 0.00 | 3.36 | 2.00 | 0.00 | 8.32 | 0.02 | 0.00 |
| 3.38 | 2.00 | 0.00 | 8.31 | 0.02 | 0.00 | 3.40 | 2.00 | 0.00 | 8.30 | 0.02 | 0.00 |
| 3.42 | 2.00 | 0.00 | 8.29 | 0.02 | 0.00 | 3.44 | 2.00 | 0.00 | 8.28 | 0.02 | 0.00 |
| 3.46 | 2.00 | 0.00 | 8.27 | 0.02 | 0.00 | 3.48 | 2.00 | 0.00 | 8.26 | 0.02 | 0.00 |
| 3.50 | 2.00 | 0.00 | 8.25 | 0.02 | 0.00 | 3.52 | 2.00 | 0.00 | 8.24 | 0.02 | 0.00 |
| 3.54 | 2.00 | 0.00 | 8.23 | 0.02 | 0.00 | 3.56 | 2.00 | 0.00 | 8.22 | 0.02 | 0.00 |
| 3.58 | 2.00 | 0.00 | 8.21 | 0.02 | 0.00 | 3.60 | 2.00 | 0.00 | 8.20 | 0.02 | 0.00 |
| 3.62 | 2.00 | 0.00 | 8.19 | 0.02 | 0.00 | 3.64 | 2.00 | 0.00 | 8.18 | 0.02 | 0.00 |
| 3.66 | 2.00 | 0.00 | 8.17 | 0.02 | 0.00 | 3.68 | 2.00 | 0.00 | 8.16 | 0.02 | 0.00 |
| 3.70 | 2.00 | 0.00 | 8.15 | 0.02 | 0.00 | 3.72 | 2.00 | 0.00 | 8.14 | 0.02 | 0.00 |
| 3.74 | 2.00 | 0.00 | 8.13 | 0.02 | 0.00 | 3.76 | 2.00 | 0.00 | 8.12 | 0.02 | 0.00 |
| 3.78 | 2.00 | 0.00 | 8.11 | 0.02 | 0.00 | 3.80 | 2.00 | 0.00 | 8.10 | 0.02 | 0.00 |
| 3.82 | 2.00 | 0.00 | 8.09 | 0.02 | 0.00 | 3.84 | 2.00 | 0.00 | 8.08 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 3.86 | 2.00 | 0.00 | 8.07 | 0.02 | 0.00 | 3.88 | 2.00 | 0.00 | 8.06 | 0.02 | 0.00 |
| 3.90 | 2.00 | 0.00 | 8.05 | 0.02 | 0.00 | 3.92 | 2.00 | 0.00 | 8.04 | 0.02 | 0.00 |
| 3.94 | 2.00 | 0.00 | 8.03 | 0.02 | 0.00 | 3.96 | 2.00 | 0.00 | 8.02 | 0.02 | 0.00 |
| 3.98 | 2.00 | 0.00 | 8.01 | 0.02 | 0.00 | 4.00 | 0.97 | 0.03 | 8.00 | 0.02 | 0.01 |
| 4.02 | 0.97 | 0.03 | 7.99 | 0.02 | 0.00 | 4.04 | 1.00 | 0.00 | 7.98 | 0.02 | 0.00 |
| 4.06 | 1.05 | 0.00 | 7.97 | 0.02 | 0.00 | 4.08 | 1.12 | 0.00 | 7.96 | 0.02 | 0.00 |
| 4.10 | 1.19 | 0.00 | 7.95 | 0.02 | 0.00 | 4.12 | 1.26 | 0.00 | 7.94 | 0.02 | 0.00 |
| 4.14 | 1.29 | 0.00 | 7.93 | 0.02 | 0.00 | 4.16 | 1.31 | 0.00 | 7.92 | 0.02 | 0.00 |
| 4.18 | 1.33 | 0.00 | 7.91 | 0.02 | 0.00 | 4.20 | 1.32 | 0.00 | 7.90 | 0.02 | 0.00 |
| 4.22 | 1.30 | 0.00 | 7.89 | 0.02 | 0.00 | 4.24 | 1.26 | 0.00 | 7.88 | 0.02 | 0.00 |
| 4.26 | 1.21 | 0.00 | 7.87 | 0.02 | 0.00 | 4.28 | 1.16 | 0.00 | 7.86 | 0.02 | 0.00 |
| 4.30 | 1.11 | 0.00 | 7.85 | 0.02 | 0.00 | 4.32 | 1.07 | 0.00 | 7.84 | 0.02 | 0.00 |
| 4.34 | 1.04 | 0.00 | 7.83 | 0.02 | 0.00 | 4.36 | 1.02 | 0.00 | 7.82 | 0.02 | 0.00 |
| 4.38 | 1.00 | 0.00 | 7.81 | 0.02 | 0.00 | 4.40 | 0.99 | 0.01 | 7.80 | 0.02 | 0.00 |
| 4.42 | 0.99 | 0.01 | 7.79 | 0.02 | 0.00 | 4.44 | 1.01 | 0.00 | 7.78 | 0.02 | 0.00 |
| 4.46 | 1.05 | 0.00 | 7.77 | 0.02 | 0.00 | 4.48 | 1.11 | 0.00 | 7.76 | 0.02 | 0.00 |
| 4.50 | 1.18 | 0.00 | 7.75 | 0.02 | 0.00 | 4.52 | 1.27 | 0.00 | 7.74 | 0.02 | 0.00 |
| 4.54 | 2.00 | 0.00 | 7.73 | 0.02 | 0.00 | 4.56 | 2.00 | 0.00 | 7.72 | 0.02 | 0.00 |
| 4.58 | 2.00 | 0.00 | 7.71 | 0.02 | 0.00 | 4.60 | 2.00 | 0.00 | 7.70 | 0.02 | 0.00 |
| 4.62 | 2.00 | 0.00 | 7.69 | 0.02 | 0.00 | 4.64 | 2.00 | 0.00 | 7.68 | 0.02 | 0.00 |
| 4.66 | 2.00 | 0.00 | 7.67 | 0.02 | 0.00 | 4.68 | 2.00 | 0.00 | 7.66 | 0.02 | 0.00 |
| 4.70 | 2.00 | 0.00 | 7.65 | 0.02 | 0.00 | 4.72 | 2.00 | 0.00 | 7.64 | 0.02 | 0.00 |
| 4.74 | 2.00 | 0.00 | 7.63 | 0.02 | 0.00 | 4.76 | 2.00 | 0.00 | 7.62 | 0.02 | 0.00 |
| 4.78 | 2.00 | 0.00 | 7.61 | 0.02 | 0.00 | 4.80 | 2.00 | 0.00 | 7.60 | 0.02 | 0.00 |
| 4.82 | 2.00 | 0.00 | 7.59 | 0.02 | 0.00 | 4.84 | 2.00 | 0.00 | 7.58 | 0.02 | 0.00 |
| 4.86 | 2.00 | 0.00 | 7.57 | 0.02 | 0.00 | 4.88 | 2.00 | 0.00 | 7.56 | 0.02 | 0.00 |
| 4.90 | 2.00 | 0.00 | 7.55 | 0.02 | 0.00 | 4.92 | 2.00 | 0.00 | 7.54 | 0.02 | 0.00 |
| 4.94 | 2.00 | 0.00 | 7.53 | 0.02 | 0.00 | 4.96 | 2.00 | 0.00 | 7.52 | 0.02 | 0.00 |
| 4.98 | 2.00 | 0.00 | 7.51 | 0.02 | 0.00 | 5.00 | 2.00 | 0.00 | 7.50 | 0.02 | 0.00 |
| 5.02 | 2.00 | 0.00 | 7.49 | 0.02 | 0.00 | 5.04 | 2.00 | 0.00 | 7.48 | 0.02 | 0.00 |
| 5.06 | 2.00 | 0.00 | 7.47 | 0.02 | 0.00 | 5.08 | 2.00 | 0.00 | 7.46 | 0.02 | 0.00 |
| 5.10 | 2.00 | 0.00 | 7.45 | 0.02 | 0.00 | 5.12 | 2.00 | 0.00 | 7.44 | 0.02 | 0.00 |
| 5.14 | 2.00 | 0.00 | 7.43 | 0.02 | 0.00 | 5.16 | 2.00 | 0.00 | 7.42 | 0.02 | 0.00 |
| 5.18 | 2.00 | 0.00 | 7.41 | 0.02 | 0.00 | 5.20 | 2.00 | 0.00 | 7.40 | 0.02 | 0.00 |
| 5.22 | 2.00 | 0.00 | 7.39 | 0.02 | 0.00 | 5.24 | 2.00 | 0.00 | 7.38 | 0.02 | 0.00 |
| 5.26 | 2.00 | 0.00 | 7.37 | 0.02 | 0.00 | 5.28 | 2.00 | 0.00 | 7.36 | 0.02 | 0.00 |
| 5.30 | 2.00 | 0.00 | 7.35 | 0.02 | 0.00 | 5.32 | 2.00 | 0.00 | 7.34 | 0.02 | 0.00 |
| 5.34 | 2.00 | 0.00 | 7.33 | 0.02 | 0.00 | 5.36 | 2.00 | 0.00 | 7.32 | 0.02 | 0.00 |
| 5.38 | 2.00 | 0.00 | 7.31 | 0.02 | 0.00 | 5.40 | 2.00 | 0.00 | 7.30 | 0.02 | 0.00 |
| 5.42 | 2.00 | 0.00 | 7.29 | 0.02 | 0.00 | 5.44 | 2.00 | 0.00 | 7.28 | 0.02 | 0.00 |
| 5.46 | 2.00 | 0.00 | 7.27 | 0.02 | 0.00 | 5.48 | 2.00 | 0.00 | 7.26 | 0.02 | 0.00 |
| 5.50 | 2.00 | 0.00 | 7.25 | 0.02 | 0.00 | 5.52 | 2.00 | 0.00 | 7.24 | 0.02 | 0.00 |
| 5.54 | 2.00 | 0.00 | 7.23 | 0.02 | 0.00 | 5.56 | 0.92 | 0.08 | 7.22 | 0.02 | 0.01 |
| 5.58 | 2.00 | 0.00 | 7.21 | 0.02 | 0.00 | 5.60 | 2.00 | 0.00 | 7.20 | 0.02 | 0.00 |
| 5.62 | 2.00 | 0.00 | 7.19 | 0.02 | 0.00 | 5.64 | 2.00 | 0.00 | 7.18 | 0.02 | 0.00 |
| 5.66 | 2.00 | 0.00 | 7.17 | 0.02 | 0.00 | 5.68 | 2.00 | 0.00 | 7.16 | 0.02 | 0.00 |
| 5.70 | 2.00 | 0.00 | 7.15 | 0.02 | 0.00 | 5.72 | 2.00 | 0.00 | 7.14 | 0.02 | 0.00 |
| 5.74 | 2.00 | 0.00 | 7.13 | 0.02 | 0.00 | 5.76 | 2.00 | 0.00 | 7.12 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 5.78 | 2.00 | 0.00 | 7.11 | 0.02 | 0.00 | 5.80 | 2.00 | 0.00 | 7.10 | 0.02 | 0.00 |
| 5.82 | 2.00 | 0.00 | 7.09 | 0.02 | 0.00 | 5.84 | 2.00 | 0.00 | 7.08 | 0.02 | 0.00 |
| 5.86 | 2.00 | 0.00 | 7.07 | 0.02 | 0.00 | 5.88 | 2.00 | 0.00 | 7.06 | 0.02 | 0.00 |
| 5.90 | 2.00 | 0.00 | 7.05 | 0.02 | 0.00 | 5.92 | 2.00 | 0.00 | 7.04 | 0.02 | 0.00 |
| 5.94 | 2.00 | 0.00 | 7.03 | 0.02 | 0.00 | 5.96 | 2.00 | 0.00 | 7.02 | 0.02 | 0.00 |
| 5.98 | 2.00 | 0.00 | 7.01 | 0.02 | 0.00 | 6.00 | 2.00 | 0.00 | 7.00 | 0.02 | 0.00 |
| 6.02 | 2.00 | 0.00 | 6.99 | 0.02 | 0.00 | 6.04 | 2.00 | 0.00 | 6.98 | 0.02 | 0.00 |
| 6.06 | 2.00 | 0.00 | 6.97 | 0.02 | 0.00 | 6.08 | 2.00 | 0.00 | 6.96 | 0.02 | 0.00 |
| 6.10 | 2.00 | 0.00 | 6.95 | 0.02 | 0.00 | 6.12 | 2.00 | 0.00 | 6.94 | 0.02 | 0.00 |
| 6.14 | 2.00 | 0.00 | 6.93 | 0.02 | 0.00 | 6.16 | 2.00 | 0.00 | 6.92 | 0.02 | 0.00 |
| 6.18 | 2.00 | 0.00 | 6.91 | 0.02 | 0.00 | 6.20 | 2.00 | 0.00 | 6.90 | 0.02 | 0.00 |
| 6.22 | 2.00 | 0.00 | 6.89 | 0.02 | 0.00 | 6.24 | 2.00 | 0.00 | 6.88 | 0.02 | 0.00 |
| 6.26 | 2.00 | 0.00 | 6.87 | 0.02 | 0.00 | 6.28 | 2.00 | 0.00 | 6.86 | 0.02 | 0.00 |
| 6.30 | 2.00 | 0.00 | 6.85 | 0.02 | 0.00 | 6.32 | 2.00 | 0.00 | 6.84 | 0.02 | 0.00 |
| 6.34 | 2.00 | 0.00 | 6.83 | 0.02 | 0.00 | 6.36 | 2.00 | 0.00 | 6.82 | 0.02 | 0.00 |
| 6.38 | 2.00 | 0.00 | 6.81 | 0.02 | 0.00 | 6.40 | 2.00 | 0.00 | 6.80 | 0.02 | 0.00 |
| 6.42 | 2.00 | 0.00 | 6.79 | 0.02 | 0.00 | 6.44 | 2.00 | 0.00 | 6.78 | 0.02 | 0.00 |
| 6.46 | 2.00 | 0.00 | 6.77 | 0.02 | 0.00 | 6.48 | 2.00 | 0.00 | 6.76 | 0.02 | 0.00 |
| 6.50 | 2.00 | 0.00 | 6.75 | 0.02 | 0.00 | 6.52 | 2.00 | 0.00 | 6.74 | 0.02 | 0.00 |
| 6.54 | 2.00 | 0.00 | 6.73 | 0.02 | 0.00 | 6.56 | 2.00 | 0.00 | 6.72 | 0.02 | 0.00 |
| 6.58 | 2.00 | 0.00 | 6.71 | 0.02 | 0.00 | 6.60 | 2.00 | 0.00 | 6.70 | 0.02 | 0.00 |
| 6.62 | 2.00 | 0.00 | 6.69 | 0.02 | 0.00 | 6.64 | 2.00 | 0.00 | 6.68 | 0.02 | 0.00 |
| 6.66 | 2.00 | 0.00 | 6.67 | 0.02 | 0.00 | 6.68 | 2.00 | 0.00 | 6.66 | 0.02 | 0.00 |
| 6.70 | 2.00 | 0.00 | 6.65 | 0.02 | 0.00 | 6.72 | 2.00 | 0.00 | 6.64 | 0.02 | 0.00 |
| 6.74 | 2.00 | 0.00 | 6.63 | 0.02 | 0.00 | 6.76 | 2.00 | 0.00 | 6.62 | 0.02 | 0.00 |
| 6.78 | 2.00 | 0.00 | 6.61 | 0.02 | 0.00 | 6.80 | 2.00 | 0.00 | 6.60 | 0.02 | 0.00 |
| 6.82 | 2.00 | 0.00 | 6.59 | 0.02 | 0.00 | 6.84 | 2.00 | 0.00 | 6.58 | 0.02 | 0.00 |
| 6.86 | 2.00 | 0.00 | 6.57 | 0.02 | 0.00 | 6.88 | 2.00 | 0.00 | 6.56 | 0.02 | 0.00 |
| 6.90 | 2.00 | 0.00 | 6.55 | 0.02 | 0.00 | 6.92 | 2.00 | 0.00 | 6.54 | 0.02 | 0.00 |
| 6.94 | 2.00 | 0.00 | 6.53 | 0.02 | 0.00 | 6.96 | 2.00 | 0.00 | 6.52 | 0.02 | 0.00 |
| 6.98 | 2.00 | 0.00 | 6.51 | 0.02 | 0.00 | 7.00 | 2.00 | 0.00 | 6.50 | 0.02 | 0.00 |
| 7.02 | 2.00 | 0.00 | 6.49 | 0.02 | 0.00 | 7.04 | 2.00 | 0.00 | 6.48 | 0.02 | 0.00 |
| 7.06 | 2.00 | 0.00 | 6.47 | 0.02 | 0.00 | 7.08 | 2.00 | 0.00 | 6.46 | 0.02 | 0.00 |
| 7.10 | 2.00 | 0.00 | 6.45 | 0.02 | 0.00 | 7.12 | 2.00 | 0.00 | 6.44 | 0.02 | 0.00 |
| 7.14 | 2.00 | 0.00 | 6.43 | 0.02 | 0.00 | 7.16 | 2.00 | 0.00 | 6.42 | 0.02 | 0.00 |
| 7.18 | 2.00 | 0.00 | 6.41 | 0.02 | 0.00 | 7.20 | 2.00 | 0.00 | 6.40 | 0.02 | 0.00 |
| 7.22 | 2.00 | 0.00 | 6.39 | 0.02 | 0.00 | 7.24 | 2.00 | 0.00 | 6.38 | 0.02 | 0.00 |
| 7.26 | 2.00 | 0.00 | 6.37 | 0.02 | 0.00 | 7.28 | 2.00 | 0.00 | 6.36 | 0.02 | 0.00 |
| 7.30 | 2.00 | 0.00 | 6.35 | 0.02 | 0.00 | 7.32 | 2.00 | 0.00 | 6.34 | 0.02 | 0.00 |
| 7.34 | 2.00 | 0.00 | 6.33 | 0.02 | 0.00 | 7.36 | 2.00 | 0.00 | 6.32 | 0.02 | 0.00 |
| 7.38 | 2.00 | 0.00 | 6.31 | 0.02 | 0.00 | 7.40 | 2.00 | 0.00 | 6.30 | 0.02 | 0.00 |
| 7.42 | 2.00 | 0.00 | 6.29 | 0.02 | 0.00 | 7.44 | 2.00 | 0.00 | 6.28 | 0.02 | 0.00 |
| 7.46 | 2.00 | 0.00 | 6.27 | 0.02 | 0.00 | 7.48 | 2.00 | 0.00 | 6.26 | 0.02 | 0.00 |
| 7.50 | 2.00 | 0.00 | 6.25 | 0.02 | 0.00 | 7.52 | 2.00 | 0.00 | 6.24 | 0.02 | 0.00 |
| 7.54 | 2.00 | 0.00 | 6.23 | 0.02 | 0.00 | 7.56 | 2.00 | 0.00 | 6.22 | 0.02 | 0.00 |
| 7.58 | 2.00 | 0.00 | 6.21 | 0.02 | 0.00 | 7.60 | 2.00 | 0.00 | 6.20 | 0.02 | 0.00 |
| 7.62 | 2.00 | 0.00 | 6.19 | 0.02 | 0.00 | 7.64 | 2.00 | 0.00 | 6.18 | 0.02 | 0.00 |
| 7.66 | 2.00 | 0.00 | 6.17 | 0.02 | 0.00 | 7.68 | 2.00 | 0.00 | 6.16 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 7.70 | 2.00 | 0.00 | 6.15 | 0.02 | 0.00 | 7.72 | 2.00 | 0.00 | 6.14 | 0.02 | 0.00 |
| 7.74 | 2.00 | 0.00 | 6.13 | 0.02 | 0.00 | 7.76 | 2.00 | 0.00 | 6.12 | 0.02 | 0.00 |
| 7.78 | 2.00 | 0.00 | 6.11 | 0.02 | 0.00 | 7.80 | 2.00 | 0.00 | 6.10 | 0.02 | 0.00 |
| 7.82 | 2.00 | 0.00 | 6.09 | 0.02 | 0.00 | 7.84 | 2.00 | 0.00 | 6.08 | 0.02 | 0.00 |
| 7.86 | 2.00 | 0.00 | 6.07 | 0.02 | 0.00 | 7.88 | 2.00 | 0.00 | 6.06 | 0.02 | 0.00 |
| 7.90 | 2.00 | 0.00 | 6.05 | 0.02 | 0.00 | 7.92 | 2.00 | 0.00 | 6.04 | 0.02 | 0.00 |
| 7.94 | 2.00 | 0.00 | 6.03 | 0.02 | 0.00 | 7.96 | 2.00 | 0.00 | 6.02 | 0.02 | 0.00 |
| 7.98 | 2.00 | 0.00 | 6.01 | 0.02 | 0.00 | 8.00 | 2.00 | 0.00 | 6.00 | 0.02 | 0.00 |
| 8.02 | 2.00 | 0.00 | 5.99 | 0.02 | 0.00 | 8.04 | 2.00 | 0.00 | 5.98 | 0.02 | 0.00 |
| 8.06 | 2.00 | 0.00 | 5.97 | 0.02 | 0.00 | 8.08 | 2.00 | 0.00 | 5.96 | 0.02 | 0.00 |
| 8.10 | 2.00 | 0.00 | 5.95 | 0.02 | 0.00 | 8.12 | 2.00 | 0.00 | 5.94 | 0.02 | 0.00 |
| 8.14 | 2.00 | 0.00 | 5.93 | 0.02 | 0.00 | 8.16 | 2.00 | 0.00 | 5.92 | 0.02 | 0.00 |
| 8.18 | 2.00 | 0.00 | 5.91 | 0.02 | 0.00 | 8.20 | 2.00 | 0.00 | 5.90 | 0.02 | 0.00 |
| 8.22 | 2.00 | 0.00 | 5.89 | 0.02 | 0.00 | 8.24 | 2.00 | 0.00 | 5.88 | 0.02 | 0.00 |
| 8.26 | 2.00 | 0.00 | 5.87 | 0.02 | 0.00 | 8.28 | 2.00 | 0.00 | 5.86 | 0.02 | 0.00 |
| 8.30 | 2.00 | 0.00 | 5.85 | 0.02 | 0.00 | 8.32 | 2.00 | 0.00 | 5.84 | 0.02 | 0.00 |
| 8.34 | 2.00 | 0.00 | 5.83 | 0.02 | 0.00 | 8.36 | 2.00 | 0.00 | 5.82 | 0.02 | 0.00 |
| 8.38 | 2.00 | 0.00 | 5.81 | 0.02 | 0.00 | 8.40 | 2.00 | 0.00 | 5.80 | 0.02 | 0.00 |
| 8.42 | 2.00 | 0.00 | 5.79 | 0.02 | 0.00 | 8.44 | 2.00 | 0.00 | 5.78 | 0.02 | 0.00 |
| 8.46 | 2.00 | 0.00 | 5.77 | 0.02 | 0.00 | 8.48 | 2.00 | 0.00 | 5.76 | 0.02 | 0.00 |
| 8.50 | 2.00 | 0.00 | 5.75 | 0.02 | 0.00 | 8.52 | 2.00 | 0.00 | 5.74 | 0.02 | 0.00 |
| 8.54 | 2.00 | 0.00 | 5.73 | 0.02 | 0.00 | 8.56 | 2.00 | 0.00 | 5.72 | 0.02 | 0.00 |
| 8.58 | 2.00 | 0.00 | 5.71 | 0.02 | 0.00 | 8.60 | 2.00 | 0.00 | 5.70 | 0.02 | 0.00 |
| 8.62 | 2.00 | 0.00 | 5.69 | 0.02 | 0.00 | 8.64 | 2.00 | 0.00 | 5.68 | 0.02 | 0.00 |
| 8.66 | 2.00 | 0.00 | 5.67 | 0.02 | 0.00 | 8.68 | 2.00 | 0.00 | 5.66 | 0.02 | 0.00 |
| 8.70 | 2.00 | 0.00 | 5.65 | 0.02 | 0.00 | 8.72 | 2.00 | 0.00 | 5.64 | 0.02 | 0.00 |
| 8.74 | 2.00 | 0.00 | 5.63 | 0.02 | 0.00 | 8.76 | 2.00 | 0.00 | 5.62 | 0.02 | 0.00 |
| 8.78 | 2.00 | 0.00 | 5.61 | 0.02 | 0.00 | 8.80 | 2.00 | 0.00 | 5.60 | 0.02 | 0.00 |
| 8.82 | 2.00 | 0.00 | 5.59 | 0.02 | 0.00 | 8.84 | 2.00 | 0.00 | 5.58 | 0.02 | 0.00 |
| 8.86 | 2.00 | 0.00 | 5.57 | 0.02 | 0.00 | 8.88 | 2.00 | 0.00 | 5.56 | 0.02 | 0.00 |
| 8.90 | 2.00 | 0.00 | 5.55 | 0.02 | 0.00 | 8.92 | 2.00 | 0.00 | 5.54 | 0.02 | 0.00 |
| 8.94 | 2.00 | 0.00 | 5.53 | 0.02 | 0.00 | 8.96 | 2.00 | 0.00 | 5.52 | 0.02 | 0.00 |
| 8.98 | 2.00 | 0.00 | 5.51 | 0.02 | 0.00 | 9.00 | 2.00 | 0.00 | 5.50 | 0.02 | 0.00 |
| 9.02 | 2.00 | 0.00 | 5.49 | 0.02 | 0.00 | 9.04 | 2.00 | 0.00 | 5.48 | 0.02 | 0.00 |
| 9.06 | 2.00 | 0.00 | 5.47 | 0.02 | 0.00 | 9.08 | 2.00 | 0.00 | 5.46 | 0.02 | 0.00 |
| 9.10 | 2.00 | 0.00 | 5.45 | 0.02 | 0.00 | 9.12 | 2.00 | 0.00 | 5.44 | 0.02 | 0.00 |
| 9.14 | 2.00 | 0.00 | 5.43 | 0.02 | 0.00 | 9.16 | 2.00 | 0.00 | 5.42 | 0.02 | 0.00 |
| 9.18 | 2.00 | 0.00 | 5.41 | 0.02 | 0.00 | 9.20 | 2.00 | 0.00 | 5.40 | 0.02 | 0.00 |
| 9.22 | 2.00 | 0.00 | 5.39 | 0.02 | 0.00 | 9.24 | 2.00 | 0.00 | 5.38 | 0.02 | 0.00 |
| 9.26 | 2.00 | 0.00 | 5.37 | 0.02 | 0.00 | 9.28 | 2.00 | 0.00 | 5.36 | 0.02 | 0.00 |
| 9.30 | 2.00 | 0.00 | 5.35 | 0.02 | 0.00 | 9.32 | 2.00 | 0.00 | 5.34 | 0.02 | 0.00 |
| 9.34 | 2.00 | 0.00 | 5.33 | 0.02 | 0.00 | 9.36 | 2.00 | 0.00 | 5.32 | 0.02 | 0.00 |
| 9.38 | 2.00 | 0.00 | 5.31 | 0.02 | 0.00 | 9.40 | 2.00 | 0.00 | 5.30 | 0.02 | 0.00 |
| 9.42 | 2.00 | 0.00 | 5.29 | 0.02 | 0.00 | 9.44 | 2.00 | 0.00 | 5.28 | 0.02 | 0.00 |
| 9.46 | 2.00 | 0.00 | 5.27 | 0.02 | 0.00 | 9.48 | 2.00 | 0.00 | 5.26 | 0.02 | 0.00 |
| 9.50 | 2.00 | 0.00 | 5.25 | 0.02 | 0.00 | 9.52 | 2.00 | 0.00 | 5.24 | 0.02 | 0.00 |
| 9.54 | 2.00 | 0.00 | 5.23 | 0.02 | 0.00 | 9.56 | 2.00 | 0.00 | 5.22 | 0.02 | 0.00 |
| 9.58 | 2.00 | 0.00 | 5.21 | 0.02 | 0.00 | 9.60 | 2.00 | 0.00 | 5.20 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 9.62 | 2.00 | 0.00 | 5.19 | 0.02 | 0.00 | 9.64 | 2.00 | 0.00 | 5.18 | 0.02 | 0.00 |
| 9.66 | 2.00 | 0.00 | 5.17 | 0.02 | 0.00 | 9.68 | 2.00 | 0.00 | 5.16 | 0.02 | 0.00 |
| 9.70 | 2.00 | 0.00 | 5.15 | 0.02 | 0.00 | 9.72 | 2.00 | 0.00 | 5.14 | 0.02 | 0.00 |
| 9.74 | 2.00 | 0.00 | 5.13 | 0.02 | 0.00 | 9.76 | 0.88 | 0.12 | 5.12 | 0.02 | 0.01 |
| 9.78 | 0.88 | 0.12 | 5.11 | 0.02 | 0.01 | 9.80 | 0.90 | 0.10 | 5.10 | 0.02 | 0.01 |
| 9.82 | 0.92 | 0.08 | 5.09 | 0.02 | 0.01 | 9.84 | 0.94 | 0.06 | 5.08 | 0.02 | 0.01 |
| 9.86 | 0.94 | 0.06 | 5.07 | 0.02 | 0.01 | 9.88 | 0.93 | 0.07 | 5.06 | 0.02 | 0.01 |
| 9.90 | 0.92 | 0.08 | 5.05 | 0.02 | 0.01 | 9.92 | 0.91 | 0.09 | 5.04 | 0.02 | 0.01 |
| 9.94 | 0.94 | 0.06 | 5.03 | 0.02 | 0.01 | 9.96 | 0.98 | 0.02 | 5.02 | 0.02 | 0.00 |
| 9.98 | 1.01 | 0.00 | 5.01 | 0.02 | 0.00 | 10.00 | 0.93 | 0.07 | 5.00 | 0.02 | 0.01 |
| 10.02 | 0.75 | 0.25 | 4.99 | 0.02 | 0.03 | 10.04 | 0.83 | 0.17 | 4.98 | 0.02 | 0.02 |
| 10.06 | 0.88 | 0.12 | 4.97 | 0.02 | 0.01 | 10.08 | 0.91 | 0.09 | 4.96 | 0.02 | 0.01 |
| 10.10 | 0.92 | 0.08 | 4.95 | 0.02 | 0.01 | 10.12 | 0.93 | 0.07 | 4.94 | 0.02 | 0.01 |
| 10.14 | 0.95 | 0.05 | 4.93 | 0.02 | 0.01 | 10.16 | 0.96 | 0.04 | 4.92 | 0.02 | 0.00 |
| 10.18 | 0.95 | 0.05 | 4.91 | 0.02 | 0.00 | 10.20 | 0.93 | 0.07 | 4.90 | 0.02 | 0.01 |
| 10.22 | 0.93 | 0.07 | 4.89 | 0.02 | 0.01 | 10.24 | 0.96 | 0.04 | 4.88 | 0.02 | 0.00 |
| 10.26 | 1.01 | 0.00 | 4.87 | 0.02 | 0.00 | 10.28 | 1.07 | 0.00 | 4.86 | 0.02 | 0.00 |
| 10.30 | 2.00 | 0.00 | 4.85 | 0.02 | 0.00 | 10.32 | 2.00 | 0.00 | 4.84 | 0.02 | 0.00 |
| 10.34 | 2.00 | 0.00 | 4.83 | 0.02 | 0.00 | 10.36 | 2.00 | 0.00 | 4.82 | 0.02 | 0.00 |
| 10.38 | 2.00 | 0.00 | 4.81 | 0.02 | 0.00 | 10.40 | 2.00 | 0.00 | 4.80 | 0.02 | 0.00 |
| 10.42 | 2.00 | 0.00 | 4.79 | 0.02 | 0.00 | 10.44 | 2.00 | 0.00 | 4.78 | 0.02 | 0.00 |
| 10.46 | 2.00 | 0.00 | 4.77 | 0.02 | 0.00 | 10.48 | 2.00 | 0.00 | 4.76 | 0.02 | 0.00 |
| 10.50 | 2.00 | 0.00 | 4.75 | 0.02 | 0.00 | 10.52 | 2.00 | 0.00 | 4.74 | 0.02 | 0.00 |
| 10.54 | 2.00 | 0.00 | 4.73 | 0.02 | 0.00 | 10.56 | 2.00 | 0.00 | 4.72 | 0.02 | 0.00 |
| 10.58 | 2.00 | 0.00 | 4.71 | 0.02 | 0.00 | 10.60 | 2.00 | 0.00 | 4.70 | 0.02 | 0.00 |
| 10.62 | 2.00 | 0.00 | 4.69 | 0.02 | 0.00 | 10.64 | 2.00 | 0.00 | 4.68 | 0.02 | 0.00 |
| 10.66 | 2.00 | 0.00 | 4.67 | 0.02 | 0.00 | 10.68 | 2.00 | 0.00 | 4.66 | 0.02 | 0.00 |
| 10.70 | 2.00 | 0.00 | 4.65 | 0.02 | 0.00 | 10.72 | 2.00 | 0.00 | 4.64 | 0.02 | 0.00 |
| 10.74 | 2.00 | 0.00 | 4.63 | 0.02 | 0.00 | 10.76 | 2.00 | 0.00 | 4.62 | 0.02 | 0.00 |
| 10.78 | 2.00 | 0.00 | 4.61 | 0.02 | 0.00 | 10.80 | 2.00 | 0.00 | 4.60 | 0.02 | 0.00 |
| 10.82 | 2.00 | 0.00 | 4.59 | 0.02 | 0.00 | 10.84 | 2.00 | 0.00 | 4.58 | 0.02 | 0.00 |
| 10.86 | 2.00 | 0.00 | 4.57 | 0.02 | 0.00 | 10.88 | 2.00 | 0.00 | 4.56 | 0.02 | 0.00 |
| 10.90 | 2.00 | 0.00 | 4.55 | 0.02 | 0.00 | 10.92 | 2.00 | 0.00 | 4.54 | 0.02 | 0.00 |
| 10.94 | 2.00 | 0.00 | 4.53 | 0.02 | 0.00 | 10.96 | 2.00 | 0.00 | 4.52 | 0.02 | 0.00 |
| 10.98 | 2.00 | 0.00 | 4.51 | 0.02 | 0.00 | 11.00 | 2.00 | 0.00 | 4.50 | 0.02 | 0.00 |
| 11.02 | 2.00 | 0.00 | 4.49 | 0.02 | 0.00 | 11.04 | 2.00 | 0.00 | 4.48 | 0.02 | 0.00 |
| 11.06 | 2.00 | 0.00 | 4.47 | 0.02 | 0.00 | 11.08 | 2.00 | 0.00 | 4.46 | 0.02 | 0.00 |
| 11.10 | 0.93 | 0.07 | 4.45 | 0.02 | 0.01 | 11.12 | 0.89 | 0.11 | 4.44 | 0.02 | 0.01 |
| 11.14 | 0.88 | 0.12 | 4.43 | 0.02 | 0.01 | 11.16 | 0.89 | 0.11 | 4.42 | 0.02 | 0.01 |
| 11.18 | 0.91 | 0.09 | 4.41 | 0.02 | 0.01 | 11.20 | 0.95 | 0.05 | 4.40 | 0.02 | 0.00 |
| 11.22 | 2.00 | 0.00 | 4.39 | 0.02 | 0.00 | 11.24 | 2.00 | 0.00 | 4.38 | 0.02 | 0.00 |
| 11.26 | 2.00 | 0.00 | 4.37 | 0.02 | 0.00 | 11.28 | 2.00 | 0.00 | 4.36 | 0.02 | 0.00 |
| 11.30 | 2.00 | 0.00 | 4.35 | 0.02 | 0.00 | 11.32 | 2.00 | 0.00 | 4.34 | 0.02 | 0.00 |
| 11.34 | 2.00 | 0.00 | 4.33 | 0.02 | 0.00 | 11.36 | 2.00 | 0.00 | 4.32 | 0.02 | 0.00 |
| 11.38 | 2.00 | 0.00 | 4.31 | 0.02 | 0.00 | 11.40 | 2.00 | 0.00 | 4.30 | 0.02 | 0.00 |
| 11.42 | 2.00 | 0.00 | 4.29 | 0.02 | 0.00 | 11.44 | 2.00 | 0.00 | 4.28 | 0.02 | 0.00 |
| 11.46 | 2.00 | 0.00 | 4.27 | 0.02 | 0.00 | 11.48 | 2.00 | 0.00 | 4.26 | 0.02 | 0.00 |
| 11.50 | 2.00 | 0.00 | 4.25 | 0.02 | 0.00 | 11.52 | 2.00 | 0.00 | 4.24 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 11.54 | 1.05 | 0.00 | 4.23 | 0.02 | 0.00 | 11.56 | 1.08 | 0.00 | 4.22 | 0.02 | 0.00 |
| 11.58 | 2.00 | 0.00 | 4.21 | 0.02 | 0.00 | 11.60 | 2.00 | 0.00 | 4.20 | 0.02 | 0.00 |
| 11.62 | 2.00 | 0.00 | 4.19 | 0.02 | 0.00 | 11.64 | 2.00 | 0.00 | 4.18 | 0.02 | 0.00 |
| 11.66 | 2.00 | 0.00 | 4.17 | 0.02 | 0.00 | 11.68 | 2.00 | 0.00 | 4.16 | 0.02 | 0.00 |
| 11.70 | 2.00 | 0.00 | 4.15 | 0.02 | 0.00 | 11.72 | 2.00 | 0.00 | 4.14 | 0.02 | 0.00 |
| 11.74 | 2.00 | 0.00 | 4.13 | 0.02 | 0.00 | 11.76 | 1.23 | 0.00 | 4.12 | 0.02 | 0.00 |
| 11.78 | 1.20 | 0.00 | 4.11 | 0.02 | 0.00 | 11.80 | 1.21 | 0.00 | 4.10 | 0.02 | 0.00 |
| 11.82 | 1.22 | 0.00 | 4.09 | 0.02 | 0.00 | 11.84 | 1.25 | 0.00 | 4.08 | 0.02 | 0.00 |
| 11.86 | 1.25 | 0.00 | 4.07 | 0.02 | 0.00 | 11.88 | 1.29 | 0.00 | 4.06 | 0.02 | 0.00 |
| 11.90 | 1.30 | 0.00 | 4.05 | 0.02 | 0.00 | 11.92 | 1.37 | 0.00 | 4.04 | 0.02 | 0.00 |
| 11.94 | 2.00 | 0.00 | 4.03 | 0.02 | 0.00 | 11.96 | 2.00 | 0.00 | 4.02 | 0.02 | 0.00 |
| 11.98 | 2.00 | 0.00 | 4.01 | 0.02 | 0.00 | 12.00 | 2.00 | 0.00 | 4.00 | 0.02 | 0.00 |
| 12.02 | 2.00 | 0.00 | 3.99 | 0.02 | 0.00 | 12.04 | 2.00 | 0.00 | 3.98 | 0.02 | 0.00 |
| 12.06 | 2.00 | 0.00 | 3.97 | 0.02 | 0.00 | 12.08 | 2.00 | 0.00 | 3.96 | 0.02 | 0.00 |
| 12.10 | 2.00 | 0.00 | 3.95 | 0.02 | 0.00 | 12.12 | 2.00 | 0.00 | 3.94 | 0.02 | 0.00 |
| 12.14 | 2.00 | 0.00 | 3.93 | 0.02 | 0.00 | 12.16 | 2.00 | 0.00 | 3.92 | 0.02 | 0.00 |
| 12.18 | 2.00 | 0.00 | 3.91 | 0.02 | 0.00 | 12.20 | 2.00 | 0.00 | 3.90 | 0.02 | 0.00 |
| 12.22 | 2.00 | 0.00 | 3.89 | 0.02 | 0.00 | 12.24 | 2.00 | 0.00 | 3.88 | 0.02 | 0.00 |
| 12.26 | 1.04 | 0.00 | 3.87 | 0.02 | 0.00 | 12.28 | 1.11 | 0.00 | 3.86 | 0.02 | 0.00 |
| 12.30 | 1.16 | 0.00 | 3.85 | 0.02 | 0.00 | 12.32 | 2.00 | 0.00 | 3.84 | 0.02 | 0.00 |
| 12.34 | 2.00 | 0.00 | 3.83 | 0.02 | 0.00 | 12.36 | 2.00 | 0.00 | 3.82 | 0.02 | 0.00 |
| 12.38 | 2.00 | 0.00 | 3.81 | 0.02 | 0.00 | 12.40 | 2.00 | 0.00 | 3.80 | 0.02 | 0.00 |
| 12.42 | 1.14 | 0.00 | 3.79 | 0.02 | 0.00 | 12.44 | 1.25 | 0.00 | 3.78 | 0.02 | 0.00 |
| 12.46 | 1.36 | 0.00 | 3.77 | 0.02 | 0.00 | 12.48 | 2.00 | 0.00 | 3.76 | 0.02 | 0.00 |
| 12.50 | 2.00 | 0.00 | 3.75 | 0.02 | 0.00 | 12.52 | 2.00 | 0.00 | 3.74 | 0.02 | 0.00 |
| 12.54 | 2.00 | 0.00 | 3.73 | 0.02 | 0.00 | 12.56 | 1.22 | 0.00 | 3.72 | 0.02 | 0.00 |
| 12.58 | 1.14 | 0.00 | 3.71 | 0.02 | 0.00 | 12.60 | 1.08 | 0.00 | 3.70 | 0.02 | 0.00 |
| 12.62 | 1.03 | 0.00 | 3.69 | 0.02 | 0.00 | 12.64 | 1.00 | 0.00 | 3.68 | 0.02 | 0.00 |
| 12.66 | 1.00 | 0.00 | 3.67 | 0.02 | 0.00 | 12.68 | 1.03 | 0.00 | 3.66 | 0.02 | 0.00 |
| 12.70 | 1.06 | 0.00 | 3.65 | 0.02 | 0.00 | 12.72 | 1.07 | 0.00 | 3.64 | 0.02 | 0.00 |
| 12.74 | 1.07 | 0.00 | 3.63 | 0.02 | 0.00 | 12.76 | 1.06 | 0.00 | 3.62 | 0.02 | 0.00 |
| 12.78 | 0.91 | 0.09 | 3.61 | 0.02 | 0.01 | 12.80 | 0.91 | 0.09 | 3.60 | 0.02 | 0.01 |
| 12.82 | 0.90 | 0.10 | 3.59 | 0.02 | 0.01 | 12.84 | 1.03 | 0.00 | 3.58 | 0.02 | 0.00 |
| 12.86 | 1.01 | 0.00 | 3.57 | 0.02 | 0.00 | 12.88 | 0.99 | 0.01 | 3.56 | 0.02 | 0.00 |
| 12.90 | 0.86 | 0.14 | 3.55 | 0.02 | 0.01 | 12.92 | 0.87 | 0.13 | 3.54 | 0.02 | 0.01 |
| 12.94 | 0.88 | 0.12 | 3.53 | 0.02 | 0.01 | 12.96 | 0.87 | 0.13 | 3.52 | 0.02 | 0.01 |
| 12.98 | 0.85 | 0.15 | 3.51 | 0.02 | 0.01 | 13.00 | 0.80 | 0.20 | 3.50 | 0.02 | 0.01 |
| 13.02 | 0.92 | 0.08 | 3.49 | 0.02 | 0.01 | 13.04 | 0.91 | 0.09 | 3.48 | 0.02 | 0.01 |
| 13.06 | 0.91 | 0.09 | 3.47 | 0.02 | 0.01 | 13.08 | 0.92 | 0.08 | 3.46 | 0.02 | 0.01 |
| 13.10 | 2.00 | 0.00 | 3.45 | 0.02 | 0.00 | 13.12 | 2.00 | 0.00 | 3.44 | 0.02 | 0.00 |
| 13.14 | 2.00 | 0.00 | 3.43 | 0.02 | 0.00 | 13.16 | 2.00 | 0.00 | 3.42 | 0.02 | 0.00 |
| 13.18 | 2.00 | 0.00 | 3.41 | 0.02 | 0.00 | 13.20 | 2.00 | 0.00 | 3.40 | 0.02 | 0.00 |
| 13.22 | 2.00 | 0.00 | 3.39 | 0.02 | 0.00 | 13.24 | 1.02 | 0.00 | 3.38 | 0.02 | 0.00 |
| 13.26 | 1.11 | 0.00 | 3.37 | 0.02 | 0.00 | 13.28 | 1.20 | 0.00 | 3.36 | 0.02 | 0.00 |
| 13.30 | 1.28 | 0.00 | 3.35 | 0.02 | 0.00 | 13.32 | 2.00 | 0.00 | 3.34 | 0.02 | 0.00 |
| 13.34 | 1.28 | 0.00 | 3.33 | 0.02 | 0.00 | 13.36 | 1.18 | 0.00 | 3.32 | 0.02 | 0.00 |
| 13.38 | 1.18 | 0.00 | 3.31 | 0.02 | 0.00 | 13.40 | 1.31 | 0.00 | 3.30 | 0.02 | 0.00 |
| 13.42 | 1.59 | 0.00 | 3.29 | 0.02 | 0.00 | 13.44 | 1.84 | 0.00 | 3.28 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 13.46 | 1.90 | 0.00 | 3.27 | 0.02 | 0.00 | 13.48 | 1.87 | 0.00 | 3.26 | 0.02 | 0.00 |
| 13.50 | 1.96 | 0.00 | 3.25 | 0.02 | 0.00 | 13.52 | 2.00 | 0.00 | 3.24 | 0.02 | 0.00 |
| 13.54 | 2.00 | 0.00 | 3.23 | 0.02 | 0.00 | 13.56 | 2.00 | 0.00 | 3.22 | 0.02 | 0.00 |
| 13.58 | 2.00 | 0.00 | 3.21 | 0.02 | 0.00 | 13.60 | 2.00 | 0.00 | 3.20 | 0.02 | 0.00 |
| 13.62 | 2.00 | 0.00 | 3.19 | 0.02 | 0.00 | 13.64 | 2.00 | 0.00 | 3.18 | 0.02 | 0.00 |
| 13.66 | 2.00 | 0.00 | 3.17 | 0.02 | 0.00 | 13.68 | 2.00 | 0.00 | 3.16 | 0.02 | 0.00 |
| 13.70 | 2.00 | 0.00 | 3.15 | 0.02 | 0.00 | 13.72 | 2.00 | 0.00 | 3.14 | 0.02 | 0.00 |
| 13.74 | 2.00 | 0.00 | 3.13 | 0.02 | 0.00 | 13.76 | 2.00 | 0.00 | 3.12 | 0.02 | 0.00 |
| 13.78 | 2.00 | 0.00 | 3.11 | 0.02 | 0.00 | 13.80 | 2.00 | 0.00 | 3.10 | 0.02 | 0.00 |
| 13.82 | 2.00 | 0.00 | 3.09 | 0.02 | 0.00 | 13.84 | 2.00 | 0.00 | 3.08 | 0.02 | 0.00 |
| 13.86 | 2.00 | 0.00 | 3.07 | 0.02 | 0.00 | 13.88 | 2.00 | 0.00 | 3.06 | 0.02 | 0.00 |
| 13.90 | 2.00 | 0.00 | 3.05 | 0.02 | 0.00 | 13.92 | 2.00 | 0.00 | 3.04 | 0.02 | 0.00 |
| 13.94 | 2.00 | 0.00 | 3.03 | 0.02 | 0.00 | 13.96 | 2.00 | 0.00 | 3.02 | 0.02 | 0.00 |
| 13.98 | 2.00 | 0.00 | 3.01 | 0.02 | 0.00 | 14.00 | 2.00 | 0.00 | 3.00 | 0.02 | 0.00 |
| 14.02 | 2.00 | 0.00 | 2.99 | 0.02 | 0.00 | 14.04 | 2.00 | 0.00 | 2.98 | 0.02 | 0.00 |
| 14.06 | 0.98 | 0.02 | 2.97 | 0.02 | 0.00 | 14.08 | 0.93 | 0.07 | 2.96 | 0.02 | 0.00 |
| 14.10 | 1.14 | 0.00 | 2.95 | 0.02 | 0.00 | 14.12 | 1.49 | 0.00 | 2.94 | 0.02 | 0.00 |
| 14.14 | 1.62 | 0.00 | 2.93 | 0.02 | 0.00 | 14.16 | 1.67 | 0.00 | 2.92 | 0.02 | 0.00 |
| 14.18 | 1.75 | 0.00 | 2.91 | 0.02 | 0.00 | 14.20 | 2.00 | 0.00 | 2.90 | 0.02 | 0.00 |
| 14.22 | 2.00 | 0.00 | 2.89 | 0.02 | 0.00 | 14.24 | 2.00 | 0.00 | 2.88 | 0.02 | 0.00 |
| 14.26 | 2.00 | 0.00 | 2.87 | 0.02 | 0.00 | 14.28 | 2.00 | 0.00 | 2.86 | 0.02 | 0.00 |
| 14.30 | 2.00 | 0.00 | 2.85 | 0.02 | 0.00 | 14.32 | 1.36 | 0.00 | 2.84 | 0.02 | 0.00 |
| 14.34 | 2.00 | 0.00 | 2.83 | 0.02 | 0.00 | 14.36 | 2.00 | 0.00 | 2.82 | 0.02 | 0.00 |
| 14.38 | 2.00 | 0.00 | 2.81 | 0.02 | 0.00 | 14.40 | 2.00 | 0.00 | 2.80 | 0.02 | 0.00 |
| 14.42 | 2.00 | 0.00 | 2.79 | 0.02 | 0.00 | 14.44 | 2.00 | 0.00 | 2.78 | 0.02 | 0.00 |
| 14.46 | 2.00 | 0.00 | 2.77 | 0.02 | 0.00 | 14.48 | 2.00 | 0.00 | 2.76 | 0.02 | 0.00 |
| 14.50 | 2.00 | 0.00 | 2.75 | 0.02 | 0.00 | 14.52 | 1.09 | 0.00 | 2.74 | 0.02 | 0.00 |
| 14.54 | 1.13 | 0.00 | 2.73 | 0.02 | 0.00 | 14.56 | 1.37 | 0.00 | 2.72 | 0.02 | 0.00 |
| 14.58 | 1.71 | 0.00 | 2.71 | 0.02 | 0.00 | 14.60 | 2.00 | 0.00 | 2.70 | 0.02 | 0.00 |
| 14.62 | 2.00 | 0.00 | 2.69 | 0.02 | 0.00 | 14.64 | 2.00 | 0.00 | 2.68 | 0.02 | 0.00 |
| 14.66 | 2.00 | 0.00 | 2.67 | 0.02 | 0.00 | 14.68 | 2.00 | 0.00 | 2.66 | 0.02 | 0.00 |
| 14.70 | 2.00 | 0.00 | 2.65 | 0.02 | 0.00 | 14.72 | 2.00 | 0.00 | 2.64 | 0.02 | 0.00 |
| 14.74 | 2.00 | 0.00 | 2.63 | 0.02 | 0.00 | 14.76 | 2.00 | 0.00 | 2.62 | 0.02 | 0.00 |
| 14.78 | 2.00 | 0.00 | 2.61 | 0.02 | 0.00 | 14.80 | 2.00 | 0.00 | 2.60 | 0.02 | 0.00 |
| 14.82 | 2.00 | 0.00 | 2.59 | 0.02 | 0.00 | 14.84 | 2.00 | 0.00 | 2.58 | 0.02 | 0.00 |
| 14.86 | 2.00 | 0.00 | 2.57 | 0.02 | 0.00 | 14.88 | 2.00 | 0.00 | 2.56 | 0.02 | 0.00 |
| 14.90 | 2.00 | 0.00 | 2.55 | 0.02 | 0.00 | 14.92 | 2.00 | 0.00 | 2.54 | 0.02 | 0.00 |
| 14.94 | 2.00 | 0.00 | 2.53 | 0.02 | 0.00 | 14.96 | 2.00 | 0.00 | 2.52 | 0.02 | 0.00 |
| 14.98 | 2.00 | 0.00 | 2.51 | 0.02 | 0.00 | 15.00 | 2.00 | 0.00 | 2.50 | 0.02 | 0.00 |
| 15.02 | 2.00 | 0.00 | 2.49 | 0.02 | 0.00 | 15.04 | 2.00 | 0.00 | 2.48 | 0.02 | 0.00 |
| 15.06 | 2.00 | 0.00 | 2.47 | 0.02 | 0.00 | 15.08 | 2.00 | 0.00 | 2.46 | 0.02 | 0.00 |
| 15.10 | 2.00 | 0.00 | 2.45 | 0.02 | 0.00 | 15.12 | 2.00 | 0.00 | 2.44 | 0.02 | 0.00 |
| 15.14 | 2.00 | 0.00 | 2.43 | 0.02 | 0.00 | 15.16 | 2.00 | 0.00 | 2.42 | 0.02 | 0.00 |
| 15.18 | 2.00 | 0.00 | 2.41 | 0.02 | 0.00 | 15.20 | 2.00 | 0.00 | 2.40 | 0.02 | 0.00 |
| 15.22 | 2.00 | 0.00 | 2.39 | 0.02 | 0.00 | 15.24 | 2.00 | 0.00 | 2.38 | 0.02 | 0.00 |
| 15.26 | 2.00 | 0.00 | 2.37 | 0.02 | 0.00 | 15.28 | 2.00 | 0.00 | 2.36 | 0.02 | 0.00 |
| 15.30 | 2.00 | 0.00 | 2.35 | 0.02 | 0.00 | 15.32 | 2.00 | 0.00 | 2.34 | 0.02 | 0.00 |
| 15.34 | 2.00 | 0.00 | 2.33 | 0.02 | 0.00 | 15.36 | 2.00 | 0.00 | 2.32 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 15.38 | 2.00 | 0.00 | 2.31 | 0.02 | 0.00 | 15.40 | 2.00 | 0.00 | 2.30 | 0.02 | 0.00 |
| 15.42 | 2.00 | 0.00 | 2.29 | 0.02 | 0.00 | 15.44 | 2.00 | 0.00 | 2.28 | 0.02 | 0.00 |
| 15.46 | 2.00 | 0.00 | 2.27 | 0.02 | 0.00 | 15.48 | 2.00 | 0.00 | 2.26 | 0.02 | 0.00 |
| 15.50 | 2.00 | 0.00 | 2.25 | 0.02 | 0.00 | 15.52 | 2.00 | 0.00 | 2.24 | 0.02 | 0.00 |
| 15.54 | 2.00 | 0.00 | 2.23 | 0.02 | 0.00 | 15.56 | 2.00 | 0.00 | 2.22 | 0.02 | 0.00 |
| 15.58 | 2.00 | 0.00 | 2.21 | 0.02 | 0.00 | 15.60 | 2.00 | 0.00 | 2.20 | 0.02 | 0.00 |
| 15.62 | 2.00 | 0.00 | 2.19 | 0.02 | 0.00 | 15.64 | 2.00 | 0.00 | 2.18 | 0.02 | 0.00 |
| 15.66 | 2.00 | 0.00 | 2.17 | 0.02 | 0.00 | 15.68 | 2.00 | 0.00 | 2.16 | 0.02 | 0.00 |
| 15.70 | 2.00 | 0.00 | 2.15 | 0.02 | 0.00 | 15.72 | 2.00 | 0.00 | 2.14 | 0.02 | 0.00 |
| 15.74 | 2.00 | 0.00 | 2.13 | 0.02 | 0.00 | 15.76 | 2.00 | 0.00 | 2.12 | 0.02 | 0.00 |
| 15.78 | 2.00 | 0.00 | 2.11 | 0.02 | 0.00 | 15.80 | 2.00 | 0.00 | 2.10 | 0.02 | 0.00 |
| 15.82 | 2.00 | 0.00 | 2.09 | 0.02 | 0.00 | 15.84 | 2.00 | 0.00 | 2.08 | 0.02 | 0.00 |
| 15.86 | 2.00 | 0.00 | 2.07 | 0.02 | 0.00 | 15.88 | 2.00 | 0.00 | 2.06 | 0.02 | 0.00 |
| 15.90 | 2.00 | 0.00 | 2.05 | 0.02 | 0.00 | 15.92 | 2.00 | 0.00 | 2.04 | 0.02 | 0.00 |
| 15.94 | 2.00 | 0.00 | 2.03 | 0.02 | 0.00 | 15.96 | 2.00 | 0.00 | 2.02 | 0.02 | 0.00 |
| 15.98 | 2.00 | 0.00 | 2.01 | 0.02 | 0.00 | 16.00 | 2.00 | 0.00 | 2.00 | 0.02 | 0.00 |
| 16.02 | 2.00 | 0.00 | 1.99 | 0.02 | 0.00 | 16.04 | 2.00 | 0.00 | 1.98 | 0.02 | 0.00 |
| 16.06 | 2.00 | 0.00 | 1.97 | 0.02 | 0.00 | 16.08 | 2.00 | 0.00 | 1.96 | 0.02 | 0.00 |
| 16.10 | 2.00 | 0.00 | 1.95 | 0.02 | 0.00 | 16.12 | 2.00 | 0.00 | 1.94 | 0.02 | 0.00 |
| 16.14 | 2.00 | 0.00 | 1.93 | 0.02 | 0.00 | 16.16 | 2.00 | 0.00 | 1.92 | 0.02 | 0.00 |
| 16.18 | 2.00 | 0.00 | 1.91 | 0.02 | 0.00 | 16.20 | 2.00 | 0.00 | 1.90 | 0.02 | 0.00 |
| 16.22 | 2.00 | 0.00 | 1.89 | 0.02 | 0.00 | 16.24 | 2.00 | 0.00 | 1.88 | 0.02 | 0.00 |
| 16.26 | 2.00 | 0.00 | 1.87 | 0.02 | 0.00 | 16.28 | 2.00 | 0.00 | 1.86 | 0.02 | 0.00 |
| 16.30 | 2.00 | 0.00 | 1.85 | 0.02 | 0.00 | 16.32 | 2.00 | 0.00 | 1.84 | 0.02 | 0.00 |
| 16.34 | 2.00 | 0.00 | 1.83 | 0.02 | 0.00 | 16.36 | 2.00 | 0.00 | 1.82 | 0.02 | 0.00 |
| 16.38 | 2.00 | 0.00 | 1.81 | 0.02 | 0.00 | 16.40 | 2.00 | 0.00 | 1.80 | 0.02 | 0.00 |
| 16.42 | 2.00 | 0.00 | 1.79 | 0.02 | 0.00 | 16.44 | 2.00 | 0.00 | 1.78 | 0.02 | 0.00 |
| 16.46 | 2.00 | 0.00 | 1.77 | 0.02 | 0.00 | 16.48 | 2.00 | 0.00 | 1.76 | 0.02 | 0.00 |
| 16.50 | 2.00 | 0.00 | 1.75 | 0.02 | 0.00 | 16.52 | 2.00 | 0.00 | 1.74 | 0.02 | 0.00 |
| 16.54 | 1.20 | 0.00 | 1.73 | 0.02 | 0.00 | 16.56 | 1.16 | 0.00 | 1.72 | 0.02 | 0.00 |
| 16.58 | 1.17 | 0.00 | 1.71 | 0.02 | 0.00 | 16.60 | 1.17 | 0.00 | 1.70 | 0.02 | 0.00 |
| 16.62 | 1.16 | 0.00 | 1.69 | 0.02 | 0.00 | 16.64 | 1.16 | 0.00 | 1.68 | 0.02 | 0.00 |
| 16.66 | 1.15 | 0.00 | 1.67 | 0.02 | 0.00 | 16.68 | 1.14 | 0.00 | 1.66 | 0.02 | 0.00 |
| 16.70 | 1.14 | 0.00 | 1.65 | 0.02 | 0.00 | 16.72 | 1.14 | 0.00 | 1.64 | 0.02 | 0.00 |
| 16.74 | 1.14 | 0.00 | 1.63 | 0.02 | 0.00 | 16.76 | 1.13 | 0.00 | 1.62 | 0.02 | 0.00 |
| 16.78 | 1.12 | 0.00 | 1.61 | 0.02 | 0.00 | 16.80 | 1.11 | 0.00 | 1.60 | 0.02 | 0.00 |
| 16.82 | 1.12 | 0.00 | 1.59 | 0.02 | 0.00 | 16.84 | 1.14 | 0.00 | 1.58 | 0.02 | 0.00 |
| 16.86 | 1.17 | 0.00 | 1.57 | 0.02 | 0.00 | 16.88 | 1.18 | 0.00 | 1.56 | 0.02 | 0.00 |
| 16.90 | 1.18 | 0.00 | 1.55 | 0.02 | 0.00 | 16.92 | 1.17 | 0.00 | 1.54 | 0.02 | 0.00 |
| 16.94 | 1.16 | 0.00 | 1.53 | 0.02 | 0.00 | 16.96 | 1.16 | 0.00 | 1.52 | 0.02 | 0.00 |
| 16.98 | 1.17 | 0.00 | 1.51 | 0.02 | 0.00 | 17.00 | 1.18 | 0.00 | 1.50 | 0.02 | 0.00 |
| 17.02 | 1.21 | 0.00 | 1.49 | 0.02 | 0.00 | 17.04 | 1.27 | 0.00 | 1.48 | 0.02 | 0.00 |
| 17.06 | 1.34 | 0.00 | 1.47 | 0.02 | 0.00 | 17.08 | 2.00 | 0.00 | 1.46 | 0.02 | 0.00 |
| 17.10 | 2.00 | 0.00 | 1.45 | 0.02 | 0.00 | 17.12 | 2.00 | 0.00 | 1.44 | 0.02 | 0.00 |
| 17.14 | 2.00 | 0.00 | 1.43 | 0.02 | 0.00 | 17.16 | 2.00 | 0.00 | 1.42 | 0.02 | 0.00 |
| 17.18 | 2.00 | 0.00 | 1.41 | 0.02 | 0.00 | 17.20 | 2.00 | 0.00 | 1.40 | 0.02 | 0.00 |
| 17.22 | 2.00 | 0.00 | 1.39 | 0.02 | 0.00 | 17.24 | 2.00 | 0.00 | 1.38 | 0.02 | 0.00 |
| 17.26 | 2.00 | 0.00 | 1.37 | 0.02 | 0.00 | 17.28 | 2.00 | 0.00 | 1.36 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 17.30 | 2.00 | 0.00 | 1.35 | 0.02 | 0.00 | 17.32 | 2.00 | 0.00 | 1.34 | 0.02 | 0.00 |
| 17.34 | 2.00 | 0.00 | 1.33 | 0.02 | 0.00 | 17.36 | 2.00 | 0.00 | 1.32 | 0.02 | 0.00 |
| 17.38 | 2.00 | 0.00 | 1.31 | 0.02 | 0.00 | 17.40 | 2.00 | 0.00 | 1.30 | 0.02 | 0.00 |
| 17.42 | 2.00 | 0.00 | 1.29 | 0.02 | 0.00 | 17.44 | 2.00 | 0.00 | 1.28 | 0.02 | 0.00 |
| 17.46 | 2.00 | 0.00 | 1.27 | 0.02 | 0.00 | 17.48 | 2.00 | 0.00 | 1.26 | 0.02 | 0.00 |
| 17.50 | 2.00 | 0.00 | 1.25 | 0.02 | 0.00 | 17.52 | 2.00 | 0.00 | 1.24 | 0.02 | 0.00 |
| 17.54 | 2.00 | 0.00 | 1.23 | 0.02 | 0.00 | 17.56 | 2.00 | 0.00 | 1.22 | 0.02 | 0.00 |
| 17.58 | 2.00 | 0.00 | 1.21 | 0.02 | 0.00 | 17.60 | 2.00 | 0.00 | 1.20 | 0.02 | 0.00 |
| 17.62 | 2.00 | 0.00 | 1.19 | 0.02 | 0.00 | 17.64 | 2.00 | 0.00 | 1.18 | 0.02 | 0.00 |
| 17.66 | 2.00 | 0.00 | 1.17 | 0.02 | 0.00 | 17.68 | 2.00 | 0.00 | 1.16 | 0.02 | 0.00 |
| 17.70 | 2.00 | 0.00 | 1.15 | 0.02 | 0.00 | 17.72 | 2.00 | 0.00 | 1.14 | 0.02 | 0.00 |
| 17.74 | 2.00 | 0.00 | 1.13 | 0.02 | 0.00 | 17.76 | 2.00 | 0.00 | 1.12 | 0.02 | 0.00 |
| 17.78 | 2.00 | 0.00 | 1.11 | 0.02 | 0.00 | 17.80 | 2.00 | 0.00 | 1.10 | 0.02 | 0.00 |
| 17.82 | 2.00 | 0.00 | 1.09 | 0.02 | 0.00 | 17.84 | 2.00 | 0.00 | 1.08 | 0.02 | 0.00 |
| 17.86 | 2.00 | 0.00 | 1.07 | 0.02 | 0.00 | 17.88 | 2.00 | 0.00 | 1.06 | 0.02 | 0.00 |
| 17.90 | 2.00 | 0.00 | 1.05 | 0.02 | 0.00 | 17.92 | 2.00 | 0.00 | 1.04 | 0.02 | 0.00 |
| 17.94 | 2.00 | 0.00 | 1.03 | 0.02 | 0.00 | 17.96 | 2.00 | 0.00 | 1.02 | 0.02 | 0.00 |
| 17.98 | 2.00 | 0.00 | 1.01 | 0.02 | 0.00 | 18.00 | 2.00 | 0.00 | 1.00 | 0.02 | 0.00 |
| 18.02 | 2.00 | 0.00 | 0.99 | 0.02 | 0.00 | 18.04 | 2.00 | 0.00 | 0.98 | 0.02 | 0.00 |
| 18.06 | 2.00 | 0.00 | 0.97 | 0.02 | 0.00 | 18.08 | 2.00 | 0.00 | 0.96 | 0.02 | 0.00 |
| 18.10 | 2.00 | 0.00 | 0.95 | 0.02 | 0.00 | 18.12 | 2.00 | 0.00 | 0.94 | 0.02 | 0.00 |
| 18.14 | 2.00 | 0.00 | 0.93 | 0.02 | 0.00 | 18.16 | 2.00 | 0.00 | 0.92 | 0.02 | 0.00 |
| 18.18 | 2.00 | 0.00 | 0.91 | 0.02 | 0.00 | 18.20 | 2.00 | 0.00 | 0.90 | 0.02 | 0.00 |
| 18.22 | 2.00 | 0.00 | 0.89 | 0.02 | 0.00 | 18.24 | 2.00 | 0.00 | 0.88 | 0.02 | 0.00 |
| 18.26 | 2.00 | 0.00 | 0.87 | 0.02 | 0.00 | 18.28 | 2.00 | 0.00 | 0.86 | 0.02 | 0.00 |
| 18.30 | 2.00 | 0.00 | 0.85 | 0.02 | 0.00 | 18.32 | 2.00 | 0.00 | 0.84 | 0.02 | 0.00 |
| 18.34 | 2.00 | 0.00 | 0.83 | 0.02 | 0.00 | 18.36 | 2.00 | 0.00 | 0.82 | 0.02 | 0.00 |
| 18.38 | 2.00 | 0.00 | 0.81 | 0.02 | 0.00 | 18.40 | 2.00 | 0.00 | 0.80 | 0.02 | 0.00 |
| 18.42 | 2.00 | 0.00 | 0.79 | 0.02 | 0.00 | 18.44 | 2.00 | 0.00 | 0.78 | 0.02 | 0.00 |
| 18.46 | 2.00 | 0.00 | 0.77 | 0.02 | 0.00 | 18.48 | 2.00 | 0.00 | 0.76 | 0.02 | 0.00 |
| 18.50 | 2.00 | 0.00 | 0.75 | 0.02 | 0.00 | 18.52 | 2.00 | 0.00 | 0.74 | 0.02 | 0.00 |
| 18.54 | 2.00 | 0.00 | 0.73 | 0.02 | 0.00 | 18.56 | 2.00 | 0.00 | 0.72 | 0.02 | 0.00 |
| 18.58 | 2.00 | 0.00 | 0.71 | 0.02 | 0.00 | 18.60 | 2.00 | 0.00 | 0.70 | 0.02 | 0.00 |
| 18.62 | 2.00 | 0.00 | 0.69 | 0.02 | 0.00 | 18.64 | 2.00 | 0.00 | 0.68 | 0.02 | 0.00 |
| 18.66 | 2.00 | 0.00 | 0.67 | 0.02 | 0.00 | 18.68 | 2.00 | 0.00 | 0.66 | 0.02 | 0.00 |
| 18.70 | 2.00 | 0.00 | 0.65 | 0.02 | 0.00 | 18.72 | 2.00 | 0.00 | 0.64 | 0.02 | 0.00 |
| 18.74 | 2.00 | 0.00 | 0.63 | 0.02 | 0.00 | 18.76 | 2.00 | 0.00 | 0.62 | 0.02 | 0.00 |
| 18.78 | 2.00 | 0.00 | 0.61 | 0.02 | 0.00 | 18.80 | 2.00 | 0.00 | 0.60 | 0.02 | 0.00 |
| 18.82 | 2.00 | 0.00 | 0.59 | 0.02 | 0.00 | 18.84 | 2.00 | 0.00 | 0.58 | 0.02 | 0.00 |
| 18.86 | 2.00 | 0.00 | 0.57 | 0.02 | 0.00 | 18.88 | 2.00 | 0.00 | 0.56 | 0.02 | 0.00 |
| 18.90 | 2.00 | 0.00 | 0.55 | 0.02 | 0.00 | 18.92 | 2.00 | 0.00 | 0.54 | 0.02 | 0.00 |
| 18.94 | 2.00 | 0.00 | 0.53 | 0.02 | 0.00 | 18.96 | 2.00 | 0.00 | 0.52 | 0.02 | 0.00 |
| 18.98 | 2.00 | 0.00 | 0.51 | 0.02 | 0.00 | 19.00 | 2.00 | 0.00 | 0.50 | 0.02 | 0.00 |
| 19.02 | 2.00 | 0.00 | 0.49 | 0.02 | 0.00 | 19.04 | 2.00 | 0.00 | 0.48 | 0.02 | 0.00 |
| 19.06 | 2.00 | 0.00 | 0.47 | 0.02 | 0.00 | 19.08 | 2.00 | 0.00 | 0.46 | 0.02 | 0.00 |
| 19.10 | 2.00 | 0.00 | 0.45 | 0.02 | 0.00 | 19.12 | 2.00 | 0.00 | 0.44 | 0.02 | 0.00 |
| 19.14 | 2.00 | 0.00 | 0.43 | 0.02 | 0.00 | 19.16 | 2.00 | 0.00 | 0.42 | 0.02 | 0.00 |
| 19.18 | 2.00 | 0.00 | 0.41 | 0.02 | 0.00 | 19.20 | 2.00 | 0.00 | 0.40 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 19.22 | 2.00 | 0.00 | 0.39 | 0.02 | 0.00 | 19.24 | 2.00 | 0.00 | 0.38 | 0.02 | 0.00 |
| 19.26 | 2.00 | 0.00 | 0.37 | 0.02 | 0.00 | 19.28 | 2.00 | 0.00 | 0.36 | 0.02 | 0.00 |
| 19.30 | 2.00 | 0.00 | 0.35 | 0.02 | 0.00 | 19.32 | 2.00 | 0.00 | 0.34 | 0.02 | 0.00 |
| 19.34 | 2.00 | 0.00 | 0.33 | 0.02 | 0.00 | 19.36 | 2.00 | 0.00 | 0.32 | 0.02 | 0.00 |
| 19.38 | 1.27 | 0.00 | 0.31 | 0.02 | 0.00 | 19.40 | 1.25 | 0.00 | 0.30 | 0.02 | 0.00 |
| 19.42 | 1.22 | 0.00 | 0.29 | 0.02 | 0.00 | 19.44 | 1.22 | 0.00 | 0.28 | 0.02 | 0.00 |
| 19.46 | 1.25 | 0.00 | 0.27 | 0.02 | 0.00 | 19.48 | 2.00 | 0.00 | 0.26 | 0.02 | 0.00 |
| 19.50 | 2.00 | 0.00 | 0.25 | 0.02 | 0.00 | 19.52 | 2.00 | 0.00 | 0.24 | 0.02 | 0.00 |
| 19.54 | 2.00 | 0.00 | 0.23 | 0.02 | 0.00 | 19.56 | 2.00 | 0.00 | 0.22 | 0.02 | 0.00 |
| 19.58 | 1.20 | 0.00 | 0.21 | 0.02 | 0.00 | 19.60 | 1.25 | 0.00 | 0.20 | 0.02 | 0.00 |
| 19.62 | 2.00 | 0.00 | 0.19 | 0.02 | 0.00 | 19.64 | 2.00 | 0.00 | 0.18 | 0.02 | 0.00 |
| 19.66 | 2.00 | 0.00 | 0.17 | 0.02 | 0.00 | 19.68 | 2.00 | 0.00 | 0.16 | 0.02 | 0.00 |
| 19.70 | 2.00 | 0.00 | 0.15 | 0.02 | 0.00 | 19.72 | 2.00 | 0.00 | 0.14 | 0.02 | 0.00 |
| 19.74 | 2.00 | 0.00 | 0.13 | 0.02 | 0.00 | 19.76 | 2.00 | 0.00 | 0.12 | 0.02 | 0.00 |
| 19.78 | 2.00 | 0.00 | 0.11 | 0.02 | 0.00 | 19.80 | 2.00 | 0.00 | 0.10 | 0.02 | 0.00 |
| 19.82 | 2.00 | 0.00 | 0.09 | 0.02 | 0.00 | 19.84 | 2.00 | 0.00 | 0.08 | 0.02 | 0.00 |
| 19.86 | 2.00 | 0.00 | 0.07 | 0.02 | 0.00 | 19.88 | 2.00 | 0.00 | 0.06 | 0.02 | 0.00 |
| 19.90 | 2.00 | 0.00 | 0.05 | 0.02 | 0.00 | | | | | | |

Overall liquefaction potential: 0.39

LPI = 0.00 - Liquefaction risk very low
 LPI between 0.00 and 5.00 - Liquefaction risk low
 LPI between 5.00 and 15.00 - Liquefaction risk high
 LPI > 15.00 - Liquefaction risk very high

Abbreviations

FS: Calculated factor of safety for test point
 F_L: 1 - FS
 w_z: Function value of the extend of soil liquefaction according to depth
 d_z: Layer thickness (m)
 LPI: Liquefaction potential index value for test point

LIQUEFACTION ANALYSIS REPORT

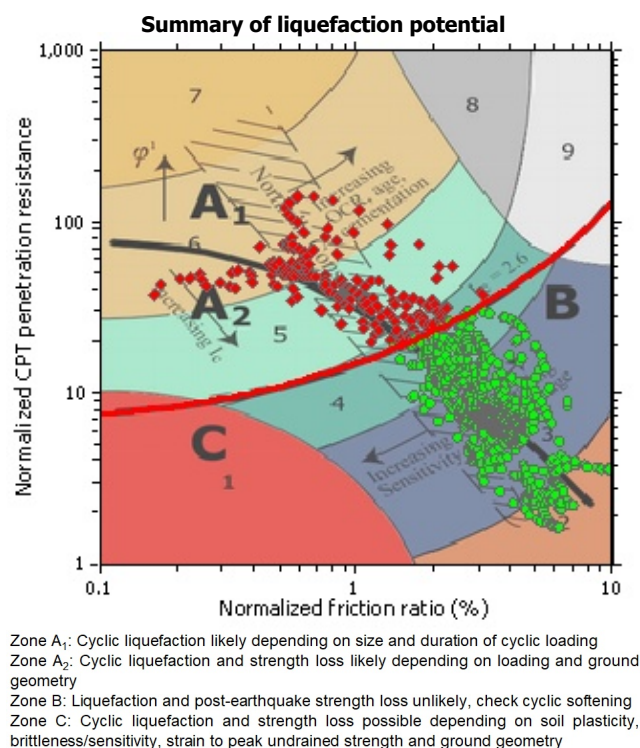
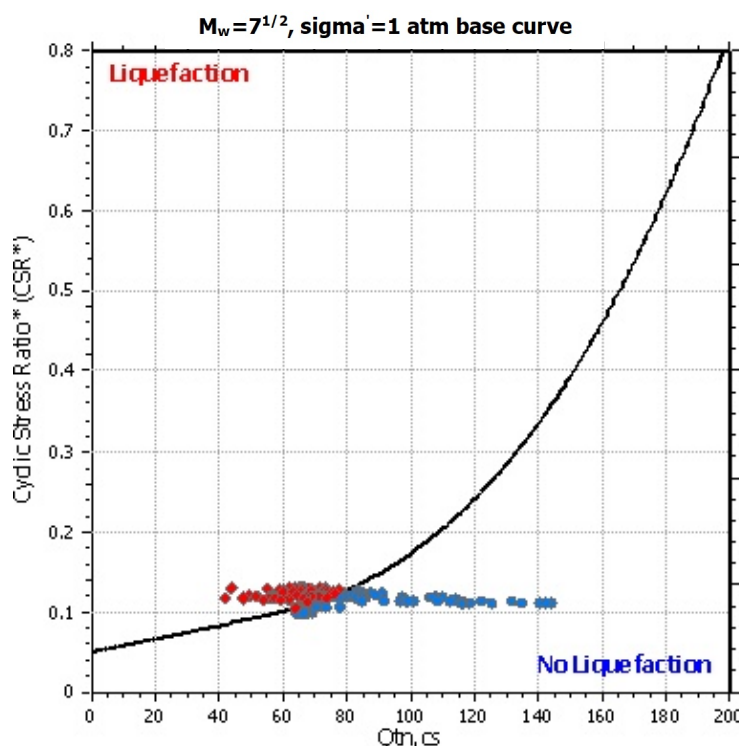
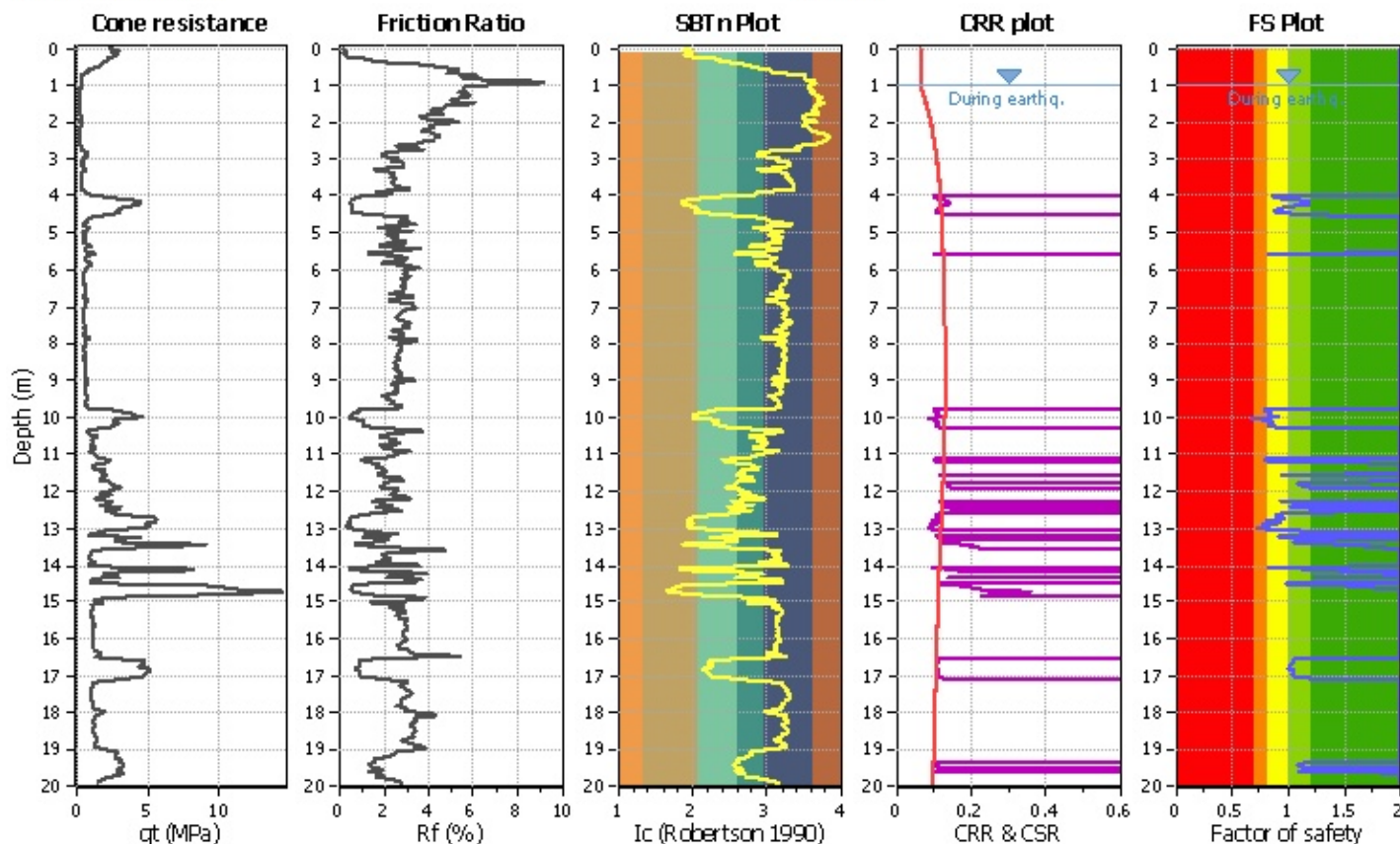
Project title :

Location :

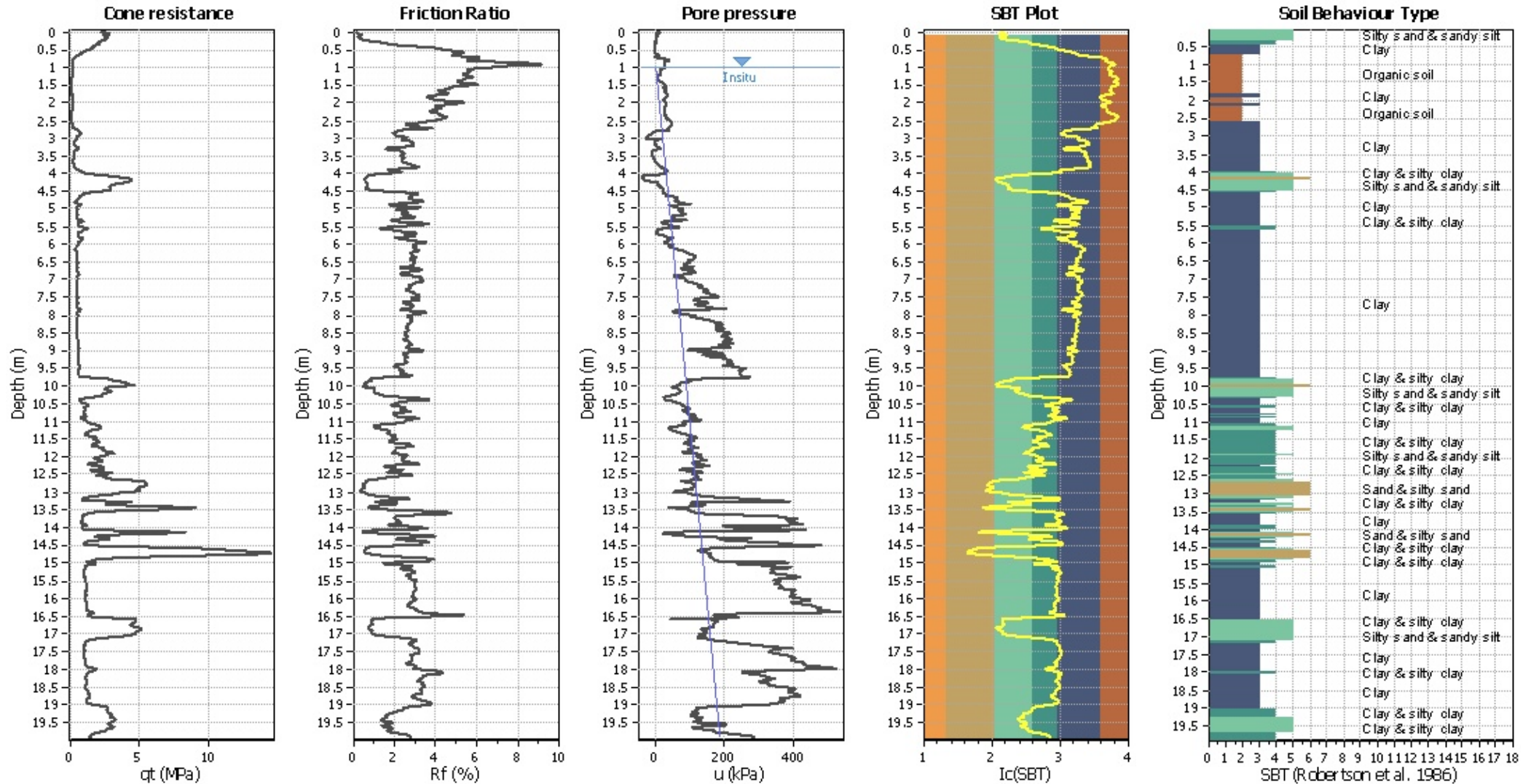
CPT file : CPTU2

Input parameters and analysis data

| | | | | | | | |
|------------------------------|-------------------|---------------------------|--------------|-------------------------|-----|----------------------|--------------|
| Analysis method: | NCEER (1998) | G.W.T. (in-situ): | 1.00 m | Use fill: | No | Clay like behavior | |
| Fines correction method: | NCEER (1998) | G.W.T. (earthq.): | 1.00 m | Fill height: | N/A | applied: | Sands only |
| Points to test: | Based on Ic value | Average results interval: | 3 | Fill weight: | N/A | Limit depth applied: | No |
| Earthquake magnitude M_w : | 6.00 | Ic cut-off value: | 2.60 | Trans. detect. applied: | No | Limit depth: | N/A |
| Peak ground acceleration: | 0.17 | Unit weight calculation: | Based on SBT | K_0 applied: | Yes | MSF method: | Method based |



CPT basic interpretation plo



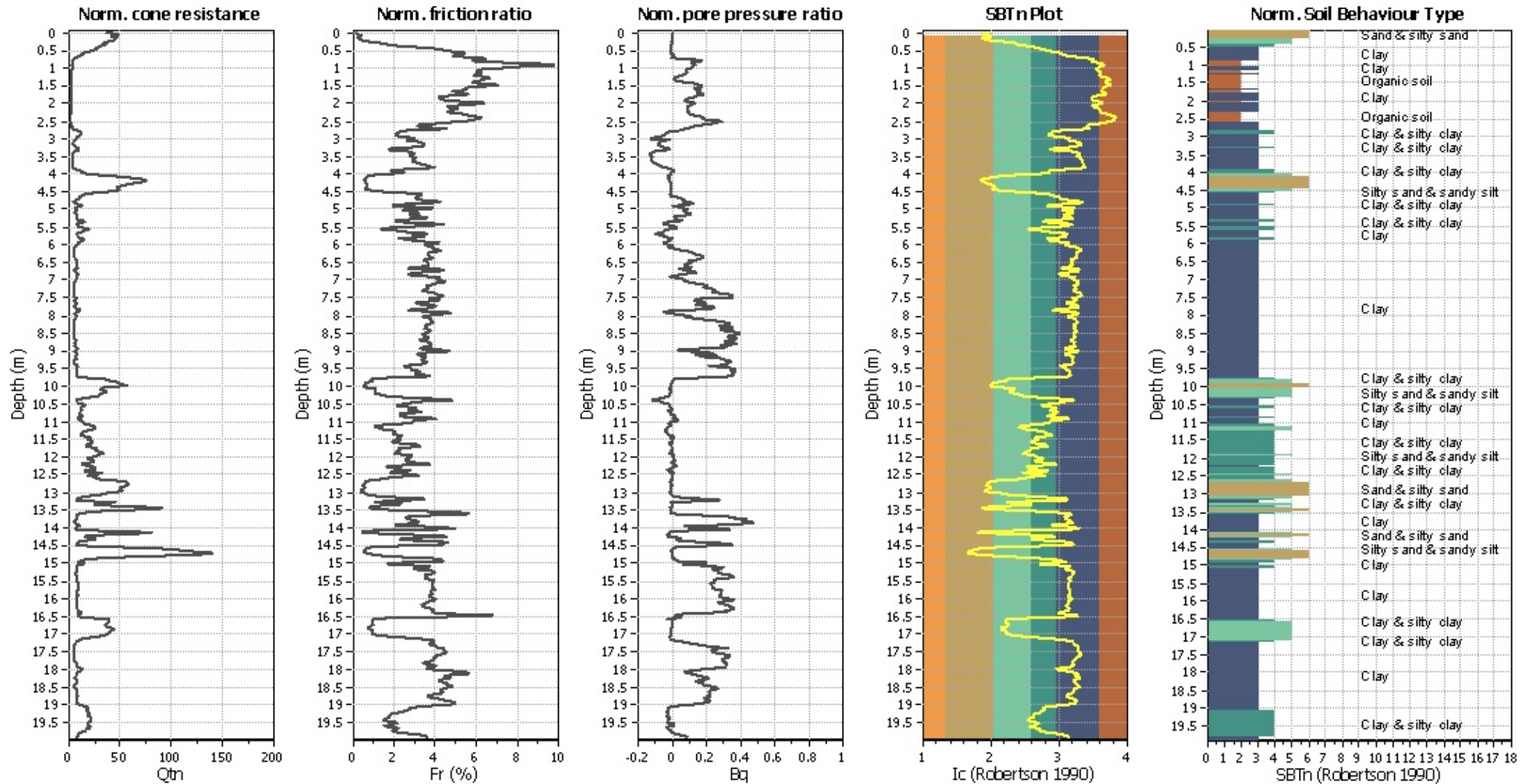
Input parameters and analysis data

| | | | | | |
|---------------------------------------|-------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K ₀ applied: | Yes |
| Earthquake magnitude M _w : | 6.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

SBT legend

| | | |
|---------------------------|-----------------------------|----------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty | 7. Gravely sand to sand |
| 2. Organic material | 5. Silty sand to sandy silt | 8. Very stiff sand to |
| 3. Clay to silty clay | 6. Clean sand to silty sand | 9. Very stiff fine grained |

CPT basic interpretation plots (normaliz



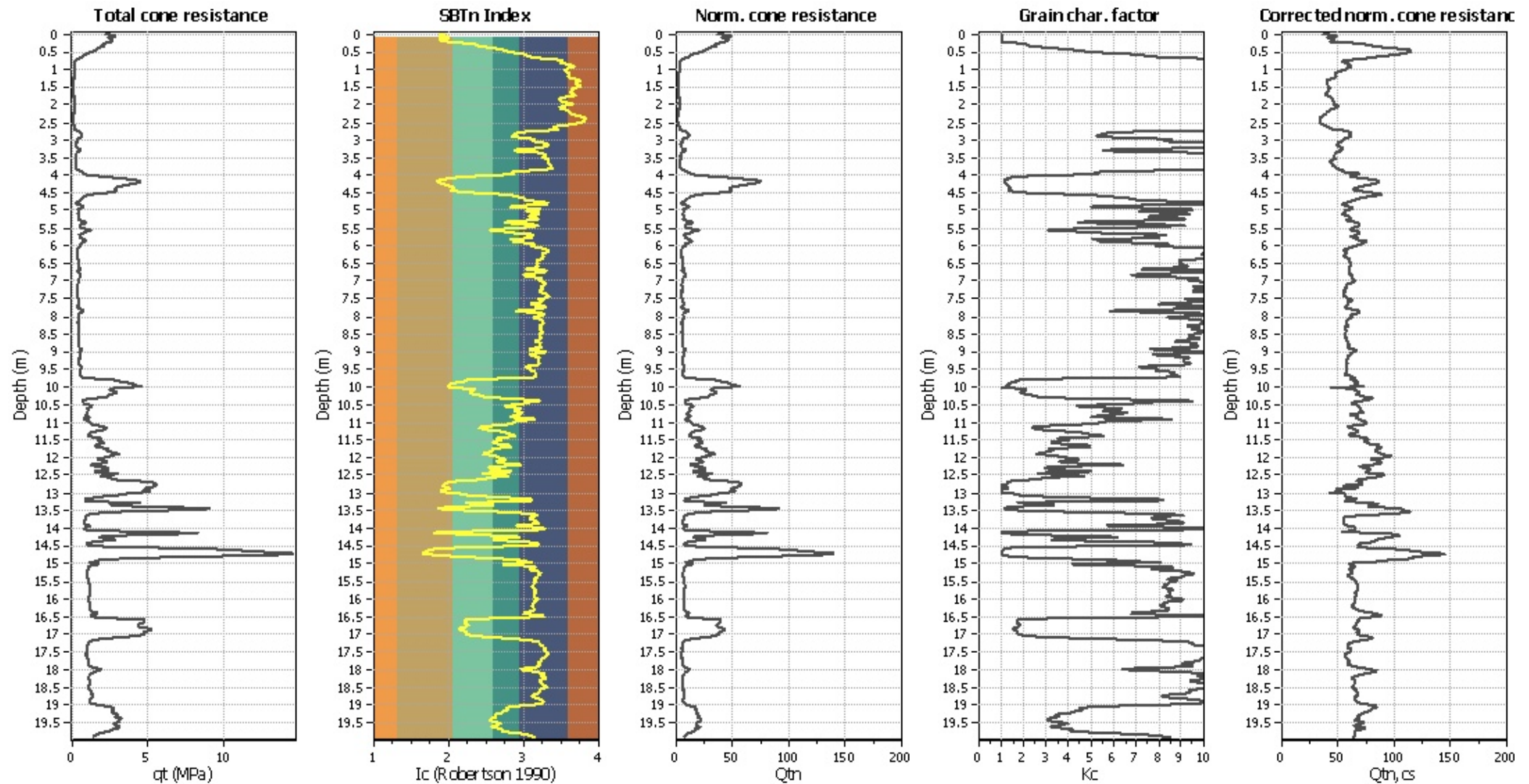
Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 6.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

SBTn legend

| | | |
|---------------------------|-----------------------------|----------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty | 7. Gravely sand to sand |
| 2. Organic material | 5. Silty sand to sandy silt | 8. Very stiff sand to |
| 3. Clay to silty clay | 6. Clean sand to silty sand | 9. Very stiff fine grained |

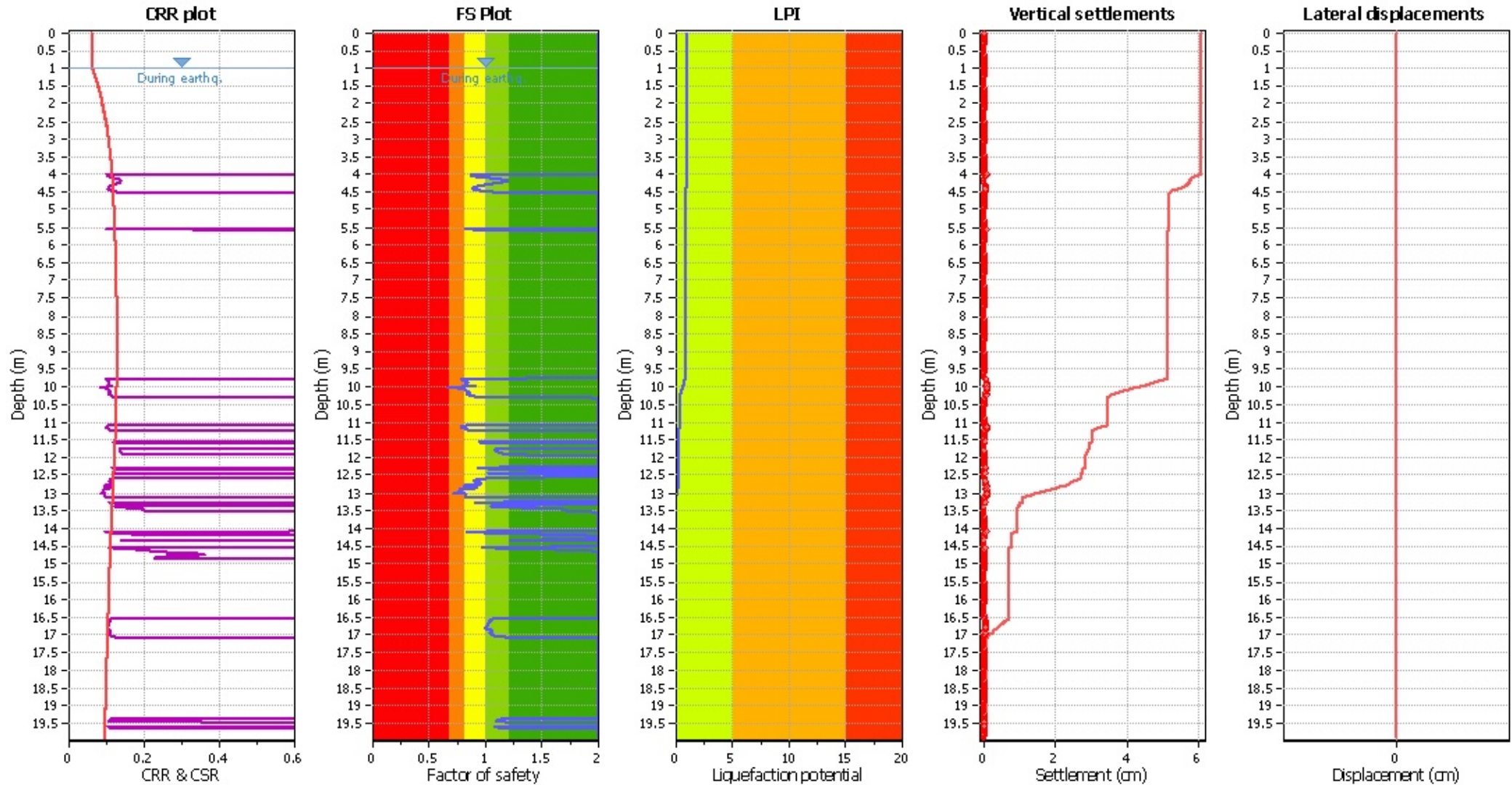
Liquefaction analysis overall plots (intermediate res)



Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_{α} applied: | Yes |
| Earthquake magnitude M_w : | 6.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

Liquefaction analysis overall plot



Input parameters and analysis data

| | | | | | |
|--------------------------------|-------------------|---------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (earthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 6.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

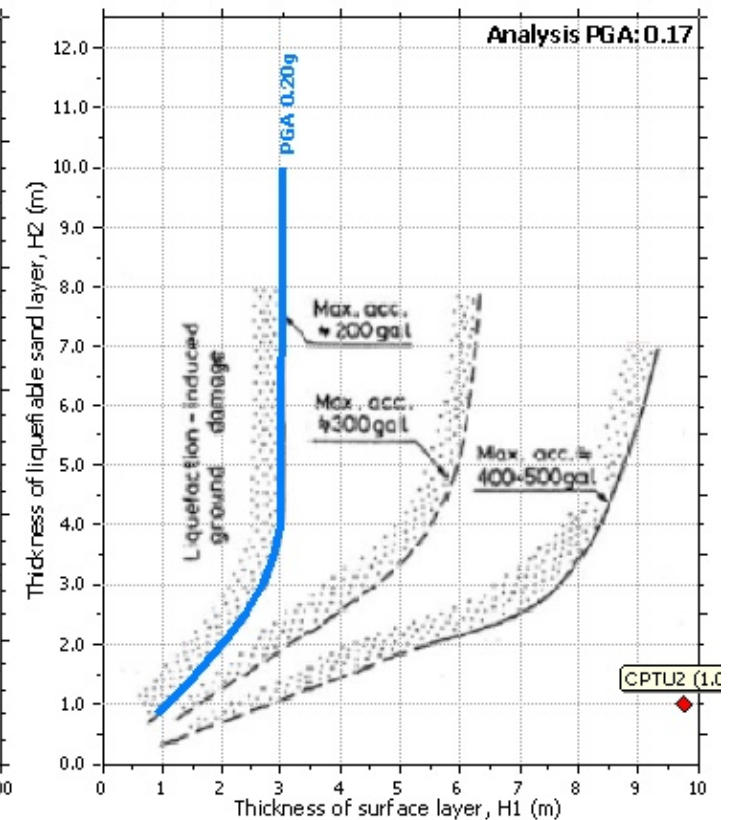
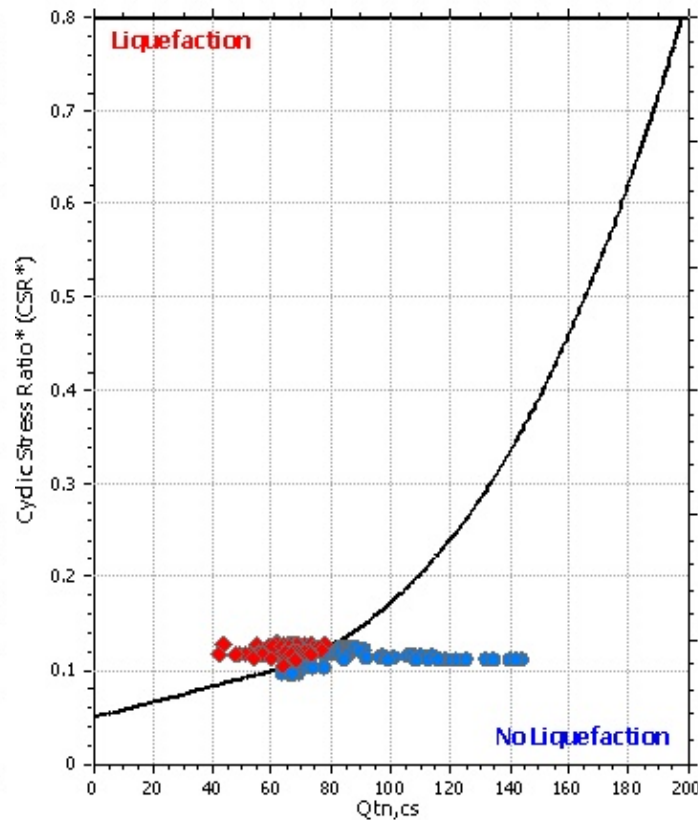
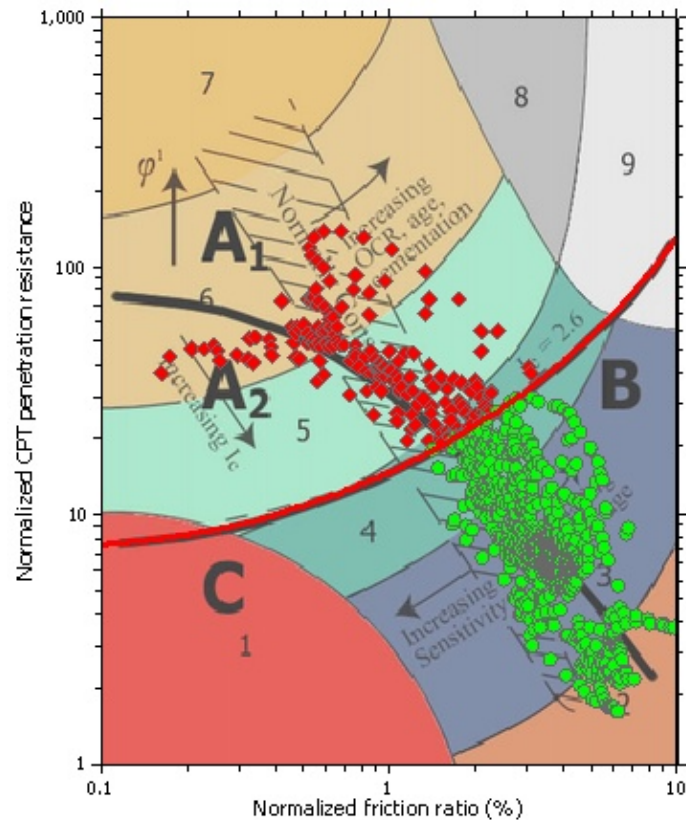
F.S. color scheme

| | |
|---|---|
| ■ | Almost certain it will liquefy |
| ■ | Very likely to liquefy |
| ■ | Liquefaction and no liq. are equally likely |
| ■ | Unlike to liquefy |
| ■ | Almost certain it will not liquefy |

LPI color scheme

| | |
|---------------------------------------|----------------|
| ■ | Very high risk |
| ■ | High risk |
| ■ | Low risk |

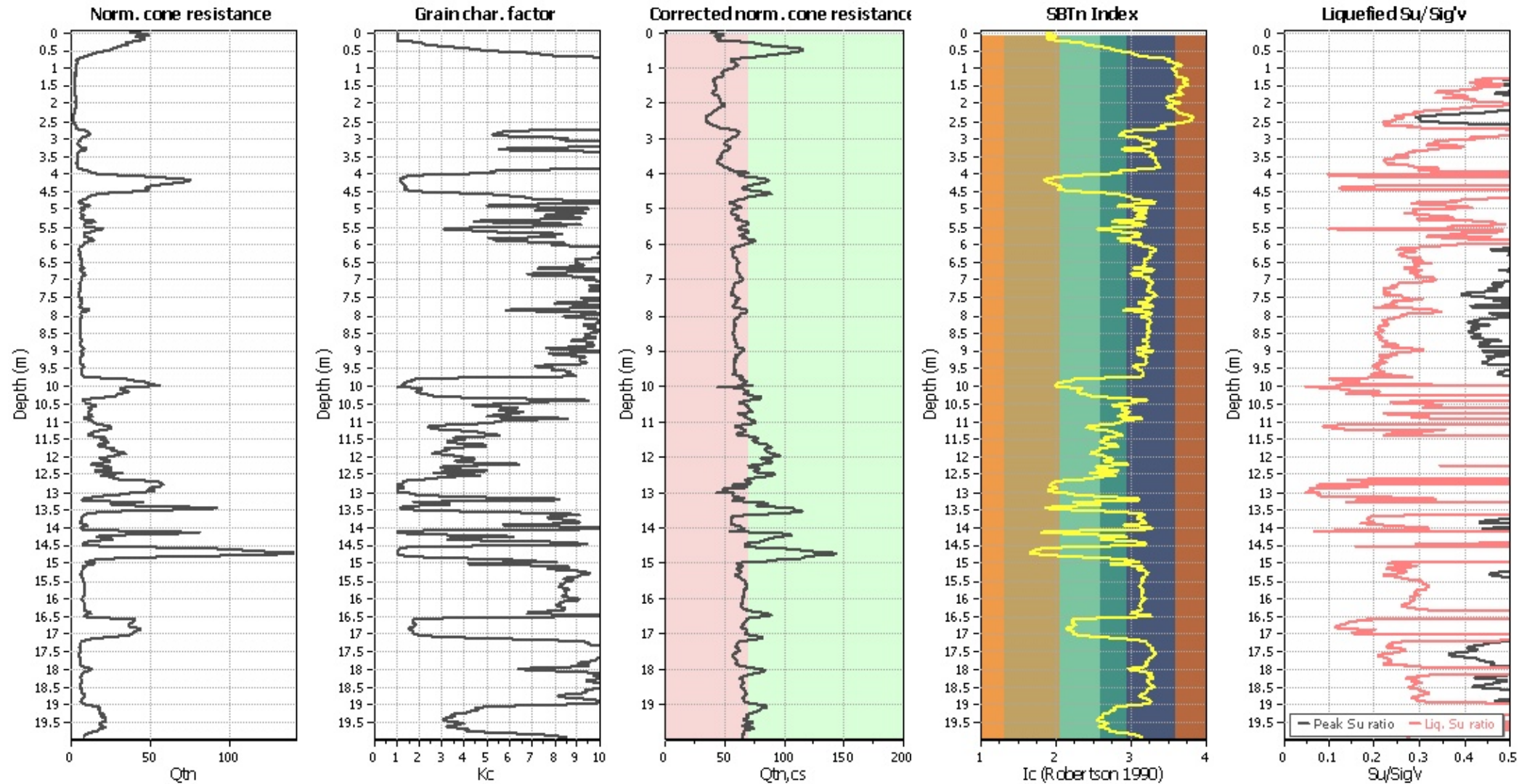
Liquefaction analysis summary plo



Input parameters and analysis data

| | | | | | |
|---------------------------------------|-------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K _g applied: | Yes |
| Earthquake magnitude M _w : | 6.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

Check for strength loss plots (Robertson (2010))



Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 6.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

| :: Liquefaction Potential Index calculation data :: | | | | | | | | | | | |
|---|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
| 0.02 | 2.00 | 0.00 | 9.99 | 0.02 | 0.00 | 0.04 | 2.00 | 0.00 | 9.98 | 0.02 | 0.00 |
| 0.06 | 2.00 | 0.00 | 9.97 | 0.02 | 0.00 | 0.08 | 2.00 | 0.00 | 9.96 | 0.02 | 0.00 |
| 0.10 | 2.00 | 0.00 | 9.95 | 0.02 | 0.00 | 0.12 | 2.00 | 0.00 | 9.94 | 0.02 | 0.00 |
| 0.14 | 2.00 | 0.00 | 9.93 | 0.02 | 0.00 | 0.16 | 2.00 | 0.00 | 9.92 | 0.02 | 0.00 |
| 0.18 | 2.00 | 0.00 | 9.91 | 0.02 | 0.00 | 0.20 | 2.00 | 0.00 | 9.90 | 0.02 | 0.00 |
| 0.22 | 2.00 | 0.00 | 9.89 | 0.02 | 0.00 | 0.24 | 2.00 | 0.00 | 9.88 | 0.02 | 0.00 |
| 0.26 | 2.00 | 0.00 | 9.87 | 0.02 | 0.00 | 0.28 | 2.00 | 0.00 | 9.86 | 0.02 | 0.00 |
| 0.30 | 2.00 | 0.00 | 9.85 | 0.02 | 0.00 | 0.32 | 2.00 | 0.00 | 9.84 | 0.02 | 0.00 |
| 0.34 | 2.00 | 0.00 | 9.83 | 0.02 | 0.00 | 0.36 | 2.00 | 0.00 | 9.82 | 0.02 | 0.00 |
| 0.38 | 2.00 | 0.00 | 9.81 | 0.02 | 0.00 | 0.40 | 2.00 | 0.00 | 9.80 | 0.02 | 0.00 |
| 0.42 | 2.00 | 0.00 | 9.79 | 0.02 | 0.00 | 0.44 | 2.00 | 0.00 | 9.78 | 0.02 | 0.00 |
| 0.46 | 2.00 | 0.00 | 9.77 | 0.02 | 0.00 | 0.48 | 2.00 | 0.00 | 9.76 | 0.02 | 0.00 |
| 0.50 | 2.00 | 0.00 | 9.75 | 0.02 | 0.00 | 0.52 | 2.00 | 0.00 | 9.74 | 0.02 | 0.00 |
| 0.54 | 2.00 | 0.00 | 9.73 | 0.02 | 0.00 | 0.56 | 2.00 | 0.00 | 9.72 | 0.02 | 0.00 |
| 0.58 | 2.00 | 0.00 | 9.71 | 0.02 | 0.00 | 0.60 | 2.00 | 0.00 | 9.70 | 0.02 | 0.00 |
| 0.62 | 2.00 | 0.00 | 9.69 | 0.02 | 0.00 | 0.64 | 2.00 | 0.00 | 9.68 | 0.02 | 0.00 |
| 0.66 | 2.00 | 0.00 | 9.67 | 0.02 | 0.00 | 0.68 | 2.00 | 0.00 | 9.66 | 0.02 | 0.00 |
| 0.70 | 2.00 | 0.00 | 9.65 | 0.02 | 0.00 | 0.72 | 2.00 | 0.00 | 9.64 | 0.02 | 0.00 |
| 0.74 | 2.00 | 0.00 | 9.63 | 0.02 | 0.00 | 0.76 | 2.00 | 0.00 | 9.62 | 0.02 | 0.00 |
| 0.78 | 2.00 | 0.00 | 9.61 | 0.02 | 0.00 | 0.80 | 2.00 | 0.00 | 9.60 | 0.02 | 0.00 |
| 0.82 | 2.00 | 0.00 | 9.59 | 0.02 | 0.00 | 0.84 | 2.00 | 0.00 | 9.58 | 0.02 | 0.00 |
| 0.86 | 2.00 | 0.00 | 9.57 | 0.02 | 0.00 | 0.88 | 2.00 | 0.00 | 9.56 | 0.02 | 0.00 |
| 0.90 | 2.00 | 0.00 | 9.55 | 0.02 | 0.00 | 0.92 | 2.00 | 0.00 | 9.54 | 0.02 | 0.00 |
| 0.94 | 2.00 | 0.00 | 9.53 | 0.02 | 0.00 | 0.96 | 2.00 | 0.00 | 9.52 | 0.02 | 0.00 |
| 0.98 | 2.00 | 0.00 | 9.51 | 0.02 | 0.00 | 1.00 | 2.00 | 0.00 | 9.50 | 0.02 | 0.00 |
| 1.02 | 2.00 | 0.00 | 9.49 | 0.02 | 0.00 | 1.04 | 2.00 | 0.00 | 9.48 | 0.02 | 0.00 |
| 1.06 | 2.00 | 0.00 | 9.47 | 0.02 | 0.00 | 1.08 | 2.00 | 0.00 | 9.46 | 0.02 | 0.00 |
| 1.10 | 2.00 | 0.00 | 9.45 | 0.02 | 0.00 | 1.12 | 2.00 | 0.00 | 9.44 | 0.02 | 0.00 |
| 1.14 | 2.00 | 0.00 | 9.43 | 0.02 | 0.00 | 1.16 | 2.00 | 0.00 | 9.42 | 0.02 | 0.00 |
| 1.18 | 2.00 | 0.00 | 9.41 | 0.02 | 0.00 | 1.20 | 2.00 | 0.00 | 9.40 | 0.02 | 0.00 |
| 1.22 | 2.00 | 0.00 | 9.39 | 0.02 | 0.00 | 1.24 | 2.00 | 0.00 | 9.38 | 0.02 | 0.00 |
| 1.26 | 2.00 | 0.00 | 9.37 | 0.02 | 0.00 | 1.28 | 2.00 | 0.00 | 9.36 | 0.02 | 0.00 |
| 1.30 | 2.00 | 0.00 | 9.35 | 0.02 | 0.00 | 1.32 | 2.00 | 0.00 | 9.34 | 0.02 | 0.00 |
| 1.34 | 2.00 | 0.00 | 9.33 | 0.02 | 0.00 | 1.36 | 2.00 | 0.00 | 9.32 | 0.02 | 0.00 |
| 1.38 | 2.00 | 0.00 | 9.31 | 0.02 | 0.00 | 1.40 | 2.00 | 0.00 | 9.30 | 0.02 | 0.00 |
| 1.42 | 2.00 | 0.00 | 9.29 | 0.02 | 0.00 | 1.44 | 2.00 | 0.00 | 9.28 | 0.02 | 0.00 |
| 1.46 | 2.00 | 0.00 | 9.27 | 0.02 | 0.00 | 1.48 | 2.00 | 0.00 | 9.26 | 0.02 | 0.00 |
| 1.50 | 2.00 | 0.00 | 9.25 | 0.02 | 0.00 | 1.52 | 2.00 | 0.00 | 9.24 | 0.02 | 0.00 |
| 1.54 | 2.00 | 0.00 | 9.23 | 0.02 | 0.00 | 1.56 | 2.00 | 0.00 | 9.22 | 0.02 | 0.00 |
| 1.58 | 2.00 | 0.00 | 9.21 | 0.02 | 0.00 | 1.60 | 2.00 | 0.00 | 9.20 | 0.02 | 0.00 |
| 1.62 | 2.00 | 0.00 | 9.19 | 0.02 | 0.00 | 1.64 | 2.00 | 0.00 | 9.18 | 0.02 | 0.00 |
| 1.66 | 2.00 | 0.00 | 9.17 | 0.02 | 0.00 | 1.68 | 2.00 | 0.00 | 9.16 | 0.02 | 0.00 |
| 1.70 | 2.00 | 0.00 | 9.15 | 0.02 | 0.00 | 1.72 | 2.00 | 0.00 | 9.14 | 0.02 | 0.00 |
| 1.74 | 2.00 | 0.00 | 9.13 | 0.02 | 0.00 | 1.76 | 2.00 | 0.00 | 9.12 | 0.02 | 0.00 |
| 1.78 | 2.00 | 0.00 | 9.11 | 0.02 | 0.00 | 1.80 | 2.00 | 0.00 | 9.10 | 0.02 | 0.00 |
| 1.82 | 2.00 | 0.00 | 9.09 | 0.02 | 0.00 | 1.84 | 2.00 | 0.00 | 9.08 | 0.02 | 0.00 |
| 1.86 | 2.00 | 0.00 | 9.07 | 0.02 | 0.00 | 1.88 | 2.00 | 0.00 | 9.06 | 0.02 | 0.00 |
| 1.90 | 2.00 | 0.00 | 9.05 | 0.02 | 0.00 | 1.92 | 2.00 | 0.00 | 9.04 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 1.94 | 2.00 | 0.00 | 9.03 | 0.02 | 0.00 | 1.96 | 2.00 | 0.00 | 9.02 | 0.02 | 0.00 |
| 1.98 | 2.00 | 0.00 | 9.01 | 0.02 | 0.00 | 2.00 | 2.00 | 0.00 | 9.00 | 0.02 | 0.00 |
| 2.02 | 2.00 | 0.00 | 8.99 | 0.02 | 0.00 | 2.04 | 2.00 | 0.00 | 8.98 | 0.02 | 0.00 |
| 2.06 | 2.00 | 0.00 | 8.97 | 0.02 | 0.00 | 2.08 | 2.00 | 0.00 | 8.96 | 0.02 | 0.00 |
| 2.10 | 2.00 | 0.00 | 8.95 | 0.02 | 0.00 | 2.12 | 2.00 | 0.00 | 8.94 | 0.02 | 0.00 |
| 2.14 | 2.00 | 0.00 | 8.93 | 0.02 | 0.00 | 2.16 | 2.00 | 0.00 | 8.92 | 0.02 | 0.00 |
| 2.18 | 2.00 | 0.00 | 8.91 | 0.02 | 0.00 | 2.20 | 2.00 | 0.00 | 8.90 | 0.02 | 0.00 |
| 2.22 | 2.00 | 0.00 | 8.89 | 0.02 | 0.00 | 2.24 | 2.00 | 0.00 | 8.88 | 0.02 | 0.00 |
| 2.26 | 2.00 | 0.00 | 8.87 | 0.02 | 0.00 | 2.28 | 2.00 | 0.00 | 8.86 | 0.02 | 0.00 |
| 2.30 | 2.00 | 0.00 | 8.85 | 0.02 | 0.00 | 2.32 | 2.00 | 0.00 | 8.84 | 0.02 | 0.00 |
| 2.34 | 2.00 | 0.00 | 8.83 | 0.02 | 0.00 | 2.36 | 2.00 | 0.00 | 8.82 | 0.02 | 0.00 |
| 2.38 | 2.00 | 0.00 | 8.81 | 0.02 | 0.00 | 2.40 | 2.00 | 0.00 | 8.80 | 0.02 | 0.00 |
| 2.42 | 2.00 | 0.00 | 8.79 | 0.02 | 0.00 | 2.44 | 2.00 | 0.00 | 8.78 | 0.02 | 0.00 |
| 2.46 | 2.00 | 0.00 | 8.77 | 0.02 | 0.00 | 2.48 | 2.00 | 0.00 | 8.76 | 0.02 | 0.00 |
| 2.50 | 2.00 | 0.00 | 8.75 | 0.02 | 0.00 | 2.52 | 2.00 | 0.00 | 8.74 | 0.02 | 0.00 |
| 2.54 | 2.00 | 0.00 | 8.73 | 0.02 | 0.00 | 2.56 | 2.00 | 0.00 | 8.72 | 0.02 | 0.00 |
| 2.58 | 2.00 | 0.00 | 8.71 | 0.02 | 0.00 | 2.60 | 2.00 | 0.00 | 8.70 | 0.02 | 0.00 |
| 2.62 | 2.00 | 0.00 | 8.69 | 0.02 | 0.00 | 2.64 | 2.00 | 0.00 | 8.68 | 0.02 | 0.00 |
| 2.66 | 2.00 | 0.00 | 8.67 | 0.02 | 0.00 | 2.68 | 2.00 | 0.00 | 8.66 | 0.02 | 0.00 |
| 2.70 | 2.00 | 0.00 | 8.65 | 0.02 | 0.00 | 2.72 | 2.00 | 0.00 | 8.64 | 0.02 | 0.00 |
| 2.74 | 2.00 | 0.00 | 8.63 | 0.02 | 0.00 | 2.76 | 2.00 | 0.00 | 8.62 | 0.02 | 0.00 |
| 2.78 | 2.00 | 0.00 | 8.61 | 0.02 | 0.00 | 2.80 | 2.00 | 0.00 | 8.60 | 0.02 | 0.00 |
| 2.82 | 2.00 | 0.00 | 8.59 | 0.02 | 0.00 | 2.84 | 2.00 | 0.00 | 8.58 | 0.02 | 0.00 |
| 2.86 | 2.00 | 0.00 | 8.57 | 0.02 | 0.00 | 2.88 | 2.00 | 0.00 | 8.56 | 0.02 | 0.00 |
| 2.90 | 2.00 | 0.00 | 8.55 | 0.02 | 0.00 | 2.92 | 2.00 | 0.00 | 8.54 | 0.02 | 0.00 |
| 2.94 | 2.00 | 0.00 | 8.53 | 0.02 | 0.00 | 2.96 | 2.00 | 0.00 | 8.52 | 0.02 | 0.00 |
| 2.98 | 2.00 | 0.00 | 8.51 | 0.02 | 0.00 | 3.00 | 2.00 | 0.00 | 8.50 | 0.02 | 0.00 |
| 3.02 | 2.00 | 0.00 | 8.49 | 0.02 | 0.00 | 3.04 | 2.00 | 0.00 | 8.48 | 0.02 | 0.00 |
| 3.06 | 2.00 | 0.00 | 8.47 | 0.02 | 0.00 | 3.08 | 2.00 | 0.00 | 8.46 | 0.02 | 0.00 |
| 3.10 | 2.00 | 0.00 | 8.45 | 0.02 | 0.00 | 3.12 | 2.00 | 0.00 | 8.44 | 0.02 | 0.00 |
| 3.14 | 2.00 | 0.00 | 8.43 | 0.02 | 0.00 | 3.16 | 2.00 | 0.00 | 8.42 | 0.02 | 0.00 |
| 3.18 | 2.00 | 0.00 | 8.41 | 0.02 | 0.00 | 3.20 | 2.00 | 0.00 | 8.40 | 0.02 | 0.00 |
| 3.22 | 2.00 | 0.00 | 8.39 | 0.02 | 0.00 | 3.24 | 2.00 | 0.00 | 8.38 | 0.02 | 0.00 |
| 3.26 | 2.00 | 0.00 | 8.37 | 0.02 | 0.00 | 3.28 | 2.00 | 0.00 | 8.36 | 0.02 | 0.00 |
| 3.30 | 2.00 | 0.00 | 8.35 | 0.02 | 0.00 | 3.32 | 2.00 | 0.00 | 8.34 | 0.02 | 0.00 |
| 3.34 | 2.00 | 0.00 | 8.33 | 0.02 | 0.00 | 3.36 | 2.00 | 0.00 | 8.32 | 0.02 | 0.00 |
| 3.38 | 2.00 | 0.00 | 8.31 | 0.02 | 0.00 | 3.40 | 2.00 | 0.00 | 8.30 | 0.02 | 0.00 |
| 3.42 | 2.00 | 0.00 | 8.29 | 0.02 | 0.00 | 3.44 | 2.00 | 0.00 | 8.28 | 0.02 | 0.00 |
| 3.46 | 2.00 | 0.00 | 8.27 | 0.02 | 0.00 | 3.48 | 2.00 | 0.00 | 8.26 | 0.02 | 0.00 |
| 3.50 | 2.00 | 0.00 | 8.25 | 0.02 | 0.00 | 3.52 | 2.00 | 0.00 | 8.24 | 0.02 | 0.00 |
| 3.54 | 2.00 | 0.00 | 8.23 | 0.02 | 0.00 | 3.56 | 2.00 | 0.00 | 8.22 | 0.02 | 0.00 |
| 3.58 | 2.00 | 0.00 | 8.21 | 0.02 | 0.00 | 3.60 | 2.00 | 0.00 | 8.20 | 0.02 | 0.00 |
| 3.62 | 2.00 | 0.00 | 8.19 | 0.02 | 0.00 | 3.64 | 2.00 | 0.00 | 8.18 | 0.02 | 0.00 |
| 3.66 | 2.00 | 0.00 | 8.17 | 0.02 | 0.00 | 3.68 | 2.00 | 0.00 | 8.16 | 0.02 | 0.00 |
| 3.70 | 2.00 | 0.00 | 8.15 | 0.02 | 0.00 | 3.72 | 2.00 | 0.00 | 8.14 | 0.02 | 0.00 |
| 3.74 | 2.00 | 0.00 | 8.13 | 0.02 | 0.00 | 3.76 | 2.00 | 0.00 | 8.12 | 0.02 | 0.00 |
| 3.78 | 2.00 | 0.00 | 8.11 | 0.02 | 0.00 | 3.80 | 2.00 | 0.00 | 8.10 | 0.02 | 0.00 |
| 3.82 | 2.00 | 0.00 | 8.09 | 0.02 | 0.00 | 3.84 | 2.00 | 0.00 | 8.08 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 3.86 | 2.00 | 0.00 | 8.07 | 0.02 | 0.00 | 3.88 | 2.00 | 0.00 | 8.06 | 0.02 | 0.00 |
| 3.90 | 2.00 | 0.00 | 8.05 | 0.02 | 0.00 | 3.92 | 2.00 | 0.00 | 8.04 | 0.02 | 0.00 |
| 3.94 | 2.00 | 0.00 | 8.03 | 0.02 | 0.00 | 3.96 | 2.00 | 0.00 | 8.02 | 0.02 | 0.00 |
| 3.98 | 2.00 | 0.00 | 8.01 | 0.02 | 0.00 | 4.00 | 0.87 | 0.13 | 8.00 | 0.02 | 0.02 |
| 4.02 | 0.87 | 0.13 | 7.99 | 0.02 | 0.02 | 4.04 | 0.90 | 0.10 | 7.98 | 0.02 | 0.02 |
| 4.06 | 0.94 | 0.06 | 7.97 | 0.02 | 0.01 | 4.08 | 1.01 | 0.00 | 7.96 | 0.02 | 0.00 |
| 4.10 | 1.06 | 0.00 | 7.95 | 0.02 | 0.00 | 4.12 | 1.13 | 0.00 | 7.94 | 0.02 | 0.00 |
| 4.14 | 1.15 | 0.00 | 7.93 | 0.02 | 0.00 | 4.16 | 1.17 | 0.00 | 7.92 | 0.02 | 0.00 |
| 4.18 | 1.19 | 0.00 | 7.91 | 0.02 | 0.00 | 4.20 | 1.19 | 0.00 | 7.90 | 0.02 | 0.00 |
| 4.22 | 1.17 | 0.00 | 7.89 | 0.02 | 0.00 | 4.24 | 1.13 | 0.00 | 7.88 | 0.02 | 0.00 |
| 4.26 | 1.09 | 0.00 | 7.87 | 0.02 | 0.00 | 4.28 | 1.04 | 0.00 | 7.86 | 0.02 | 0.00 |
| 4.30 | 0.99 | 0.01 | 7.85 | 0.02 | 0.00 | 4.32 | 0.96 | 0.04 | 7.84 | 0.02 | 0.01 |
| 4.34 | 0.94 | 0.06 | 7.83 | 0.02 | 0.01 | 4.36 | 0.92 | 0.08 | 7.82 | 0.02 | 0.01 |
| 4.38 | 0.90 | 0.10 | 7.81 | 0.02 | 0.02 | 4.40 | 0.89 | 0.11 | 7.80 | 0.02 | 0.02 |
| 4.42 | 0.89 | 0.11 | 7.79 | 0.02 | 0.02 | 4.44 | 0.91 | 0.09 | 7.78 | 0.02 | 0.01 |
| 4.46 | 0.94 | 0.06 | 7.77 | 0.02 | 0.01 | 4.48 | 0.99 | 0.01 | 7.76 | 0.02 | 0.00 |
| 4.50 | 1.06 | 0.00 | 7.75 | 0.02 | 0.00 | 4.52 | 1.14 | 0.00 | 7.74 | 0.02 | 0.00 |
| 4.54 | 2.00 | 0.00 | 7.73 | 0.02 | 0.00 | 4.56 | 2.00 | 0.00 | 7.72 | 0.02 | 0.00 |
| 4.58 | 2.00 | 0.00 | 7.71 | 0.02 | 0.00 | 4.60 | 2.00 | 0.00 | 7.70 | 0.02 | 0.00 |
| 4.62 | 2.00 | 0.00 | 7.69 | 0.02 | 0.00 | 4.64 | 2.00 | 0.00 | 7.68 | 0.02 | 0.00 |
| 4.66 | 2.00 | 0.00 | 7.67 | 0.02 | 0.00 | 4.68 | 2.00 | 0.00 | 7.66 | 0.02 | 0.00 |
| 4.70 | 2.00 | 0.00 | 7.65 | 0.02 | 0.00 | 4.72 | 2.00 | 0.00 | 7.64 | 0.02 | 0.00 |
| 4.74 | 2.00 | 0.00 | 7.63 | 0.02 | 0.00 | 4.76 | 2.00 | 0.00 | 7.62 | 0.02 | 0.00 |
| 4.78 | 2.00 | 0.00 | 7.61 | 0.02 | 0.00 | 4.80 | 2.00 | 0.00 | 7.60 | 0.02 | 0.00 |
| 4.82 | 2.00 | 0.00 | 7.59 | 0.02 | 0.00 | 4.84 | 2.00 | 0.00 | 7.58 | 0.02 | 0.00 |
| 4.86 | 2.00 | 0.00 | 7.57 | 0.02 | 0.00 | 4.88 | 2.00 | 0.00 | 7.56 | 0.02 | 0.00 |
| 4.90 | 2.00 | 0.00 | 7.55 | 0.02 | 0.00 | 4.92 | 2.00 | 0.00 | 7.54 | 0.02 | 0.00 |
| 4.94 | 2.00 | 0.00 | 7.53 | 0.02 | 0.00 | 4.96 | 2.00 | 0.00 | 7.52 | 0.02 | 0.00 |
| 4.98 | 2.00 | 0.00 | 7.51 | 0.02 | 0.00 | 5.00 | 2.00 | 0.00 | 7.50 | 0.02 | 0.00 |
| 5.02 | 2.00 | 0.00 | 7.49 | 0.02 | 0.00 | 5.04 | 2.00 | 0.00 | 7.48 | 0.02 | 0.00 |
| 5.06 | 2.00 | 0.00 | 7.47 | 0.02 | 0.00 | 5.08 | 2.00 | 0.00 | 7.46 | 0.02 | 0.00 |
| 5.10 | 2.00 | 0.00 | 7.45 | 0.02 | 0.00 | 5.12 | 2.00 | 0.00 | 7.44 | 0.02 | 0.00 |
| 5.14 | 2.00 | 0.00 | 7.43 | 0.02 | 0.00 | 5.16 | 2.00 | 0.00 | 7.42 | 0.02 | 0.00 |
| 5.18 | 2.00 | 0.00 | 7.41 | 0.02 | 0.00 | 5.20 | 2.00 | 0.00 | 7.40 | 0.02 | 0.00 |
| 5.22 | 2.00 | 0.00 | 7.39 | 0.02 | 0.00 | 5.24 | 2.00 | 0.00 | 7.38 | 0.02 | 0.00 |
| 5.26 | 2.00 | 0.00 | 7.37 | 0.02 | 0.00 | 5.28 | 2.00 | 0.00 | 7.36 | 0.02 | 0.00 |
| 5.30 | 2.00 | 0.00 | 7.35 | 0.02 | 0.00 | 5.32 | 2.00 | 0.00 | 7.34 | 0.02 | 0.00 |
| 5.34 | 2.00 | 0.00 | 7.33 | 0.02 | 0.00 | 5.36 | 2.00 | 0.00 | 7.32 | 0.02 | 0.00 |
| 5.38 | 2.00 | 0.00 | 7.31 | 0.02 | 0.00 | 5.40 | 2.00 | 0.00 | 7.30 | 0.02 | 0.00 |
| 5.42 | 2.00 | 0.00 | 7.29 | 0.02 | 0.00 | 5.44 | 2.00 | 0.00 | 7.28 | 0.02 | 0.00 |
| 5.46 | 2.00 | 0.00 | 7.27 | 0.02 | 0.00 | 5.48 | 2.00 | 0.00 | 7.26 | 0.02 | 0.00 |
| 5.50 | 2.00 | 0.00 | 7.25 | 0.02 | 0.00 | 5.52 | 2.00 | 0.00 | 7.24 | 0.02 | 0.00 |
| 5.54 | 2.00 | 0.00 | 7.23 | 0.02 | 0.00 | 5.56 | 0.82 | 0.18 | 7.22 | 0.02 | 0.03 |
| 5.58 | 2.00 | 0.00 | 7.21 | 0.02 | 0.00 | 5.60 | 2.00 | 0.00 | 7.20 | 0.02 | 0.00 |
| 5.62 | 2.00 | 0.00 | 7.19 | 0.02 | 0.00 | 5.64 | 2.00 | 0.00 | 7.18 | 0.02 | 0.00 |
| 5.66 | 2.00 | 0.00 | 7.17 | 0.02 | 0.00 | 5.68 | 2.00 | 0.00 | 7.16 | 0.02 | 0.00 |
| 5.70 | 2.00 | 0.00 | 7.15 | 0.02 | 0.00 | 5.72 | 2.00 | 0.00 | 7.14 | 0.02 | 0.00 |
| 5.74 | 2.00 | 0.00 | 7.13 | 0.02 | 0.00 | 5.76 | 2.00 | 0.00 | 7.12 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 5.78 | 2.00 | 0.00 | 7.11 | 0.02 | 0.00 | 5.80 | 2.00 | 0.00 | 7.10 | 0.02 | 0.00 |
| 5.82 | 2.00 | 0.00 | 7.09 | 0.02 | 0.00 | 5.84 | 2.00 | 0.00 | 7.08 | 0.02 | 0.00 |
| 5.86 | 2.00 | 0.00 | 7.07 | 0.02 | 0.00 | 5.88 | 2.00 | 0.00 | 7.06 | 0.02 | 0.00 |
| 5.90 | 2.00 | 0.00 | 7.05 | 0.02 | 0.00 | 5.92 | 2.00 | 0.00 | 7.04 | 0.02 | 0.00 |
| 5.94 | 2.00 | 0.00 | 7.03 | 0.02 | 0.00 | 5.96 | 2.00 | 0.00 | 7.02 | 0.02 | 0.00 |
| 5.98 | 2.00 | 0.00 | 7.01 | 0.02 | 0.00 | 6.00 | 2.00 | 0.00 | 7.00 | 0.02 | 0.00 |
| 6.02 | 2.00 | 0.00 | 6.99 | 0.02 | 0.00 | 6.04 | 2.00 | 0.00 | 6.98 | 0.02 | 0.00 |
| 6.06 | 2.00 | 0.00 | 6.97 | 0.02 | 0.00 | 6.08 | 2.00 | 0.00 | 6.96 | 0.02 | 0.00 |
| 6.10 | 2.00 | 0.00 | 6.95 | 0.02 | 0.00 | 6.12 | 2.00 | 0.00 | 6.94 | 0.02 | 0.00 |
| 6.14 | 2.00 | 0.00 | 6.93 | 0.02 | 0.00 | 6.16 | 2.00 | 0.00 | 6.92 | 0.02 | 0.00 |
| 6.18 | 2.00 | 0.00 | 6.91 | 0.02 | 0.00 | 6.20 | 2.00 | 0.00 | 6.90 | 0.02 | 0.00 |
| 6.22 | 2.00 | 0.00 | 6.89 | 0.02 | 0.00 | 6.24 | 2.00 | 0.00 | 6.88 | 0.02 | 0.00 |
| 6.26 | 2.00 | 0.00 | 6.87 | 0.02 | 0.00 | 6.28 | 2.00 | 0.00 | 6.86 | 0.02 | 0.00 |
| 6.30 | 2.00 | 0.00 | 6.85 | 0.02 | 0.00 | 6.32 | 2.00 | 0.00 | 6.84 | 0.02 | 0.00 |
| 6.34 | 2.00 | 0.00 | 6.83 | 0.02 | 0.00 | 6.36 | 2.00 | 0.00 | 6.82 | 0.02 | 0.00 |
| 6.38 | 2.00 | 0.00 | 6.81 | 0.02 | 0.00 | 6.40 | 2.00 | 0.00 | 6.80 | 0.02 | 0.00 |
| 6.42 | 2.00 | 0.00 | 6.79 | 0.02 | 0.00 | 6.44 | 2.00 | 0.00 | 6.78 | 0.02 | 0.00 |
| 6.46 | 2.00 | 0.00 | 6.77 | 0.02 | 0.00 | 6.48 | 2.00 | 0.00 | 6.76 | 0.02 | 0.00 |
| 6.50 | 2.00 | 0.00 | 6.75 | 0.02 | 0.00 | 6.52 | 2.00 | 0.00 | 6.74 | 0.02 | 0.00 |
| 6.54 | 2.00 | 0.00 | 6.73 | 0.02 | 0.00 | 6.56 | 2.00 | 0.00 | 6.72 | 0.02 | 0.00 |
| 6.58 | 2.00 | 0.00 | 6.71 | 0.02 | 0.00 | 6.60 | 2.00 | 0.00 | 6.70 | 0.02 | 0.00 |
| 6.62 | 2.00 | 0.00 | 6.69 | 0.02 | 0.00 | 6.64 | 2.00 | 0.00 | 6.68 | 0.02 | 0.00 |
| 6.66 | 2.00 | 0.00 | 6.67 | 0.02 | 0.00 | 6.68 | 2.00 | 0.00 | 6.66 | 0.02 | 0.00 |
| 6.70 | 2.00 | 0.00 | 6.65 | 0.02 | 0.00 | 6.72 | 2.00 | 0.00 | 6.64 | 0.02 | 0.00 |
| 6.74 | 2.00 | 0.00 | 6.63 | 0.02 | 0.00 | 6.76 | 2.00 | 0.00 | 6.62 | 0.02 | 0.00 |
| 6.78 | 2.00 | 0.00 | 6.61 | 0.02 | 0.00 | 6.80 | 2.00 | 0.00 | 6.60 | 0.02 | 0.00 |
| 6.82 | 2.00 | 0.00 | 6.59 | 0.02 | 0.00 | 6.84 | 2.00 | 0.00 | 6.58 | 0.02 | 0.00 |
| 6.86 | 2.00 | 0.00 | 6.57 | 0.02 | 0.00 | 6.88 | 2.00 | 0.00 | 6.56 | 0.02 | 0.00 |
| 6.90 | 2.00 | 0.00 | 6.55 | 0.02 | 0.00 | 6.92 | 2.00 | 0.00 | 6.54 | 0.02 | 0.00 |
| 6.94 | 2.00 | 0.00 | 6.53 | 0.02 | 0.00 | 6.96 | 2.00 | 0.00 | 6.52 | 0.02 | 0.00 |
| 6.98 | 2.00 | 0.00 | 6.51 | 0.02 | 0.00 | 7.00 | 2.00 | 0.00 | 6.50 | 0.02 | 0.00 |
| 7.02 | 2.00 | 0.00 | 6.49 | 0.02 | 0.00 | 7.04 | 2.00 | 0.00 | 6.48 | 0.02 | 0.00 |
| 7.06 | 2.00 | 0.00 | 6.47 | 0.02 | 0.00 | 7.08 | 2.00 | 0.00 | 6.46 | 0.02 | 0.00 |
| 7.10 | 2.00 | 0.00 | 6.45 | 0.02 | 0.00 | 7.12 | 2.00 | 0.00 | 6.44 | 0.02 | 0.00 |
| 7.14 | 2.00 | 0.00 | 6.43 | 0.02 | 0.00 | 7.16 | 2.00 | 0.00 | 6.42 | 0.02 | 0.00 |
| 7.18 | 2.00 | 0.00 | 6.41 | 0.02 | 0.00 | 7.20 | 2.00 | 0.00 | 6.40 | 0.02 | 0.00 |
| 7.22 | 2.00 | 0.00 | 6.39 | 0.02 | 0.00 | 7.24 | 2.00 | 0.00 | 6.38 | 0.02 | 0.00 |
| 7.26 | 2.00 | 0.00 | 6.37 | 0.02 | 0.00 | 7.28 | 2.00 | 0.00 | 6.36 | 0.02 | 0.00 |
| 7.30 | 2.00 | 0.00 | 6.35 | 0.02 | 0.00 | 7.32 | 2.00 | 0.00 | 6.34 | 0.02 | 0.00 |
| 7.34 | 2.00 | 0.00 | 6.33 | 0.02 | 0.00 | 7.36 | 2.00 | 0.00 | 6.32 | 0.02 | 0.00 |
| 7.38 | 2.00 | 0.00 | 6.31 | 0.02 | 0.00 | 7.40 | 2.00 | 0.00 | 6.30 | 0.02 | 0.00 |
| 7.42 | 2.00 | 0.00 | 6.29 | 0.02 | 0.00 | 7.44 | 2.00 | 0.00 | 6.28 | 0.02 | 0.00 |
| 7.46 | 2.00 | 0.00 | 6.27 | 0.02 | 0.00 | 7.48 | 2.00 | 0.00 | 6.26 | 0.02 | 0.00 |
| 7.50 | 2.00 | 0.00 | 6.25 | 0.02 | 0.00 | 7.52 | 2.00 | 0.00 | 6.24 | 0.02 | 0.00 |
| 7.54 | 2.00 | 0.00 | 6.23 | 0.02 | 0.00 | 7.56 | 2.00 | 0.00 | 6.22 | 0.02 | 0.00 |
| 7.58 | 2.00 | 0.00 | 6.21 | 0.02 | 0.00 | 7.60 | 2.00 | 0.00 | 6.20 | 0.02 | 0.00 |
| 7.62 | 2.00 | 0.00 | 6.19 | 0.02 | 0.00 | 7.64 | 2.00 | 0.00 | 6.18 | 0.02 | 0.00 |
| 7.66 | 2.00 | 0.00 | 6.17 | 0.02 | 0.00 | 7.68 | 2.00 | 0.00 | 6.16 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 7.70 | 2.00 | 0.00 | 6.15 | 0.02 | 0.00 | 7.72 | 2.00 | 0.00 | 6.14 | 0.02 | 0.00 |
| 7.74 | 2.00 | 0.00 | 6.13 | 0.02 | 0.00 | 7.76 | 2.00 | 0.00 | 6.12 | 0.02 | 0.00 |
| 7.78 | 2.00 | 0.00 | 6.11 | 0.02 | 0.00 | 7.80 | 2.00 | 0.00 | 6.10 | 0.02 | 0.00 |
| 7.82 | 2.00 | 0.00 | 6.09 | 0.02 | 0.00 | 7.84 | 2.00 | 0.00 | 6.08 | 0.02 | 0.00 |
| 7.86 | 2.00 | 0.00 | 6.07 | 0.02 | 0.00 | 7.88 | 2.00 | 0.00 | 6.06 | 0.02 | 0.00 |
| 7.90 | 2.00 | 0.00 | 6.05 | 0.02 | 0.00 | 7.92 | 2.00 | 0.00 | 6.04 | 0.02 | 0.00 |
| 7.94 | 2.00 | 0.00 | 6.03 | 0.02 | 0.00 | 7.96 | 2.00 | 0.00 | 6.02 | 0.02 | 0.00 |
| 7.98 | 2.00 | 0.00 | 6.01 | 0.02 | 0.00 | 8.00 | 2.00 | 0.00 | 6.00 | 0.02 | 0.00 |
| 8.02 | 2.00 | 0.00 | 5.99 | 0.02 | 0.00 | 8.04 | 2.00 | 0.00 | 5.98 | 0.02 | 0.00 |
| 8.06 | 2.00 | 0.00 | 5.97 | 0.02 | 0.00 | 8.08 | 2.00 | 0.00 | 5.96 | 0.02 | 0.00 |
| 8.10 | 2.00 | 0.00 | 5.95 | 0.02 | 0.00 | 8.12 | 2.00 | 0.00 | 5.94 | 0.02 | 0.00 |
| 8.14 | 2.00 | 0.00 | 5.93 | 0.02 | 0.00 | 8.16 | 2.00 | 0.00 | 5.92 | 0.02 | 0.00 |
| 8.18 | 2.00 | 0.00 | 5.91 | 0.02 | 0.00 | 8.20 | 2.00 | 0.00 | 5.90 | 0.02 | 0.00 |
| 8.22 | 2.00 | 0.00 | 5.89 | 0.02 | 0.00 | 8.24 | 2.00 | 0.00 | 5.88 | 0.02 | 0.00 |
| 8.26 | 2.00 | 0.00 | 5.87 | 0.02 | 0.00 | 8.28 | 2.00 | 0.00 | 5.86 | 0.02 | 0.00 |
| 8.30 | 2.00 | 0.00 | 5.85 | 0.02 | 0.00 | 8.32 | 2.00 | 0.00 | 5.84 | 0.02 | 0.00 |
| 8.34 | 2.00 | 0.00 | 5.83 | 0.02 | 0.00 | 8.36 | 2.00 | 0.00 | 5.82 | 0.02 | 0.00 |
| 8.38 | 2.00 | 0.00 | 5.81 | 0.02 | 0.00 | 8.40 | 2.00 | 0.00 | 5.80 | 0.02 | 0.00 |
| 8.42 | 2.00 | 0.00 | 5.79 | 0.02 | 0.00 | 8.44 | 2.00 | 0.00 | 5.78 | 0.02 | 0.00 |
| 8.46 | 2.00 | 0.00 | 5.77 | 0.02 | 0.00 | 8.48 | 2.00 | 0.00 | 5.76 | 0.02 | 0.00 |
| 8.50 | 2.00 | 0.00 | 5.75 | 0.02 | 0.00 | 8.52 | 2.00 | 0.00 | 5.74 | 0.02 | 0.00 |
| 8.54 | 2.00 | 0.00 | 5.73 | 0.02 | 0.00 | 8.56 | 2.00 | 0.00 | 5.72 | 0.02 | 0.00 |
| 8.58 | 2.00 | 0.00 | 5.71 | 0.02 | 0.00 | 8.60 | 2.00 | 0.00 | 5.70 | 0.02 | 0.00 |
| 8.62 | 2.00 | 0.00 | 5.69 | 0.02 | 0.00 | 8.64 | 2.00 | 0.00 | 5.68 | 0.02 | 0.00 |
| 8.66 | 2.00 | 0.00 | 5.67 | 0.02 | 0.00 | 8.68 | 2.00 | 0.00 | 5.66 | 0.02 | 0.00 |
| 8.70 | 2.00 | 0.00 | 5.65 | 0.02 | 0.00 | 8.72 | 2.00 | 0.00 | 5.64 | 0.02 | 0.00 |
| 8.74 | 2.00 | 0.00 | 5.63 | 0.02 | 0.00 | 8.76 | 2.00 | 0.00 | 5.62 | 0.02 | 0.00 |
| 8.78 | 2.00 | 0.00 | 5.61 | 0.02 | 0.00 | 8.80 | 2.00 | 0.00 | 5.60 | 0.02 | 0.00 |
| 8.82 | 2.00 | 0.00 | 5.59 | 0.02 | 0.00 | 8.84 | 2.00 | 0.00 | 5.58 | 0.02 | 0.00 |
| 8.86 | 2.00 | 0.00 | 5.57 | 0.02 | 0.00 | 8.88 | 2.00 | 0.00 | 5.56 | 0.02 | 0.00 |
| 8.90 | 2.00 | 0.00 | 5.55 | 0.02 | 0.00 | 8.92 | 2.00 | 0.00 | 5.54 | 0.02 | 0.00 |
| 8.94 | 2.00 | 0.00 | 5.53 | 0.02 | 0.00 | 8.96 | 2.00 | 0.00 | 5.52 | 0.02 | 0.00 |
| 8.98 | 2.00 | 0.00 | 5.51 | 0.02 | 0.00 | 9.00 | 2.00 | 0.00 | 5.50 | 0.02 | 0.00 |
| 9.02 | 2.00 | 0.00 | 5.49 | 0.02 | 0.00 | 9.04 | 2.00 | 0.00 | 5.48 | 0.02 | 0.00 |
| 9.06 | 2.00 | 0.00 | 5.47 | 0.02 | 0.00 | 9.08 | 2.00 | 0.00 | 5.46 | 0.02 | 0.00 |
| 9.10 | 2.00 | 0.00 | 5.45 | 0.02 | 0.00 | 9.12 | 2.00 | 0.00 | 5.44 | 0.02 | 0.00 |
| 9.14 | 2.00 | 0.00 | 5.43 | 0.02 | 0.00 | 9.16 | 2.00 | 0.00 | 5.42 | 0.02 | 0.00 |
| 9.18 | 2.00 | 0.00 | 5.41 | 0.02 | 0.00 | 9.20 | 2.00 | 0.00 | 5.40 | 0.02 | 0.00 |
| 9.22 | 2.00 | 0.00 | 5.39 | 0.02 | 0.00 | 9.24 | 2.00 | 0.00 | 5.38 | 0.02 | 0.00 |
| 9.26 | 2.00 | 0.00 | 5.37 | 0.02 | 0.00 | 9.28 | 2.00 | 0.00 | 5.36 | 0.02 | 0.00 |
| 9.30 | 2.00 | 0.00 | 5.35 | 0.02 | 0.00 | 9.32 | 2.00 | 0.00 | 5.34 | 0.02 | 0.00 |
| 9.34 | 2.00 | 0.00 | 5.33 | 0.02 | 0.00 | 9.36 | 2.00 | 0.00 | 5.32 | 0.02 | 0.00 |
| 9.38 | 2.00 | 0.00 | 5.31 | 0.02 | 0.00 | 9.40 | 2.00 | 0.00 | 5.30 | 0.02 | 0.00 |
| 9.42 | 2.00 | 0.00 | 5.29 | 0.02 | 0.00 | 9.44 | 2.00 | 0.00 | 5.28 | 0.02 | 0.00 |
| 9.46 | 2.00 | 0.00 | 5.27 | 0.02 | 0.00 | 9.48 | 2.00 | 0.00 | 5.26 | 0.02 | 0.00 |
| 9.50 | 2.00 | 0.00 | 5.25 | 0.02 | 0.00 | 9.52 | 2.00 | 0.00 | 5.24 | 0.02 | 0.00 |
| 9.54 | 2.00 | 0.00 | 5.23 | 0.02 | 0.00 | 9.56 | 2.00 | 0.00 | 5.22 | 0.02 | 0.00 |
| 9.58 | 2.00 | 0.00 | 5.21 | 0.02 | 0.00 | 9.60 | 2.00 | 0.00 | 5.20 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 9.62 | 2.00 | 0.00 | 5.19 | 0.02 | 0.00 | 9.64 | 2.00 | 0.00 | 5.18 | 0.02 | 0.00 |
| 9.66 | 2.00 | 0.00 | 5.17 | 0.02 | 0.00 | 9.68 | 2.00 | 0.00 | 5.16 | 0.02 | 0.00 |
| 9.70 | 2.00 | 0.00 | 5.15 | 0.02 | 0.00 | 9.72 | 2.00 | 0.00 | 5.14 | 0.02 | 0.00 |
| 9.74 | 2.00 | 0.00 | 5.13 | 0.02 | 0.00 | 9.76 | 0.79 | 0.21 | 5.12 | 0.02 | 0.02 |
| 9.78 | 0.79 | 0.21 | 5.11 | 0.02 | 0.02 | 9.80 | 0.80 | 0.20 | 5.10 | 0.02 | 0.02 |
| 9.82 | 0.83 | 0.17 | 5.09 | 0.02 | 0.02 | 9.84 | 0.84 | 0.16 | 5.08 | 0.02 | 0.02 |
| 9.86 | 0.84 | 0.16 | 5.07 | 0.02 | 0.02 | 9.88 | 0.84 | 0.16 | 5.06 | 0.02 | 0.02 |
| 9.90 | 0.82 | 0.18 | 5.05 | 0.02 | 0.02 | 9.92 | 0.82 | 0.18 | 5.04 | 0.02 | 0.02 |
| 9.94 | 0.84 | 0.16 | 5.03 | 0.02 | 0.02 | 9.96 | 0.88 | 0.12 | 5.02 | 0.02 | 0.01 |
| 9.98 | 0.90 | 0.10 | 5.01 | 0.02 | 0.01 | 10.00 | 0.83 | 0.17 | 5.00 | 0.02 | 0.02 |
| 10.02 | 0.67 | 0.33 | 4.99 | 0.02 | 0.03 | 10.04 | 0.74 | 0.26 | 4.98 | 0.02 | 0.03 |
| 10.06 | 0.79 | 0.21 | 4.97 | 0.02 | 0.02 | 10.08 | 0.82 | 0.18 | 4.96 | 0.02 | 0.02 |
| 10.10 | 0.83 | 0.17 | 4.95 | 0.02 | 0.02 | 10.12 | 0.83 | 0.17 | 4.94 | 0.02 | 0.02 |
| 10.14 | 0.85 | 0.15 | 4.93 | 0.02 | 0.01 | 10.16 | 0.86 | 0.14 | 4.92 | 0.02 | 0.01 |
| 10.18 | 0.86 | 0.14 | 4.91 | 0.02 | 0.01 | 10.20 | 0.84 | 0.16 | 4.90 | 0.02 | 0.02 |
| 10.22 | 0.83 | 0.17 | 4.89 | 0.02 | 0.02 | 10.24 | 0.86 | 0.14 | 4.88 | 0.02 | 0.01 |
| 10.26 | 0.91 | 0.09 | 4.87 | 0.02 | 0.01 | 10.28 | 0.96 | 0.04 | 4.86 | 0.02 | 0.00 |
| 10.30 | 2.00 | 0.00 | 4.85 | 0.02 | 0.00 | 10.32 | 2.00 | 0.00 | 4.84 | 0.02 | 0.00 |
| 10.34 | 2.00 | 0.00 | 4.83 | 0.02 | 0.00 | 10.36 | 2.00 | 0.00 | 4.82 | 0.02 | 0.00 |
| 10.38 | 2.00 | 0.00 | 4.81 | 0.02 | 0.00 | 10.40 | 2.00 | 0.00 | 4.80 | 0.02 | 0.00 |
| 10.42 | 2.00 | 0.00 | 4.79 | 0.02 | 0.00 | 10.44 | 2.00 | 0.00 | 4.78 | 0.02 | 0.00 |
| 10.46 | 2.00 | 0.00 | 4.77 | 0.02 | 0.00 | 10.48 | 2.00 | 0.00 | 4.76 | 0.02 | 0.00 |
| 10.50 | 2.00 | 0.00 | 4.75 | 0.02 | 0.00 | 10.52 | 2.00 | 0.00 | 4.74 | 0.02 | 0.00 |
| 10.54 | 2.00 | 0.00 | 4.73 | 0.02 | 0.00 | 10.56 | 2.00 | 0.00 | 4.72 | 0.02 | 0.00 |
| 10.58 | 2.00 | 0.00 | 4.71 | 0.02 | 0.00 | 10.60 | 2.00 | 0.00 | 4.70 | 0.02 | 0.00 |
| 10.62 | 2.00 | 0.00 | 4.69 | 0.02 | 0.00 | 10.64 | 2.00 | 0.00 | 4.68 | 0.02 | 0.00 |
| 10.66 | 2.00 | 0.00 | 4.67 | 0.02 | 0.00 | 10.68 | 2.00 | 0.00 | 4.66 | 0.02 | 0.00 |
| 10.70 | 2.00 | 0.00 | 4.65 | 0.02 | 0.00 | 10.72 | 2.00 | 0.00 | 4.64 | 0.02 | 0.00 |
| 10.74 | 2.00 | 0.00 | 4.63 | 0.02 | 0.00 | 10.76 | 2.00 | 0.00 | 4.62 | 0.02 | 0.00 |
| 10.78 | 2.00 | 0.00 | 4.61 | 0.02 | 0.00 | 10.80 | 2.00 | 0.00 | 4.60 | 0.02 | 0.00 |
| 10.82 | 2.00 | 0.00 | 4.59 | 0.02 | 0.00 | 10.84 | 2.00 | 0.00 | 4.58 | 0.02 | 0.00 |
| 10.86 | 2.00 | 0.00 | 4.57 | 0.02 | 0.00 | 10.88 | 2.00 | 0.00 | 4.56 | 0.02 | 0.00 |
| 10.90 | 2.00 | 0.00 | 4.55 | 0.02 | 0.00 | 10.92 | 2.00 | 0.00 | 4.54 | 0.02 | 0.00 |
| 10.94 | 2.00 | 0.00 | 4.53 | 0.02 | 0.00 | 10.96 | 2.00 | 0.00 | 4.52 | 0.02 | 0.00 |
| 10.98 | 2.00 | 0.00 | 4.51 | 0.02 | 0.00 | 11.00 | 2.00 | 0.00 | 4.50 | 0.02 | 0.00 |
| 11.02 | 2.00 | 0.00 | 4.49 | 0.02 | 0.00 | 11.04 | 2.00 | 0.00 | 4.48 | 0.02 | 0.00 |
| 11.06 | 2.00 | 0.00 | 4.47 | 0.02 | 0.00 | 11.08 | 2.00 | 0.00 | 4.46 | 0.02 | 0.00 |
| 11.10 | 0.83 | 0.17 | 4.45 | 0.02 | 0.02 | 11.12 | 0.79 | 0.21 | 4.44 | 0.02 | 0.02 |
| 11.14 | 0.79 | 0.21 | 4.43 | 0.02 | 0.02 | 11.16 | 0.80 | 0.20 | 4.42 | 0.02 | 0.02 |
| 11.18 | 0.82 | 0.18 | 4.41 | 0.02 | 0.02 | 11.20 | 0.85 | 0.15 | 4.40 | 0.02 | 0.01 |
| 11.22 | 2.00 | 0.00 | 4.39 | 0.02 | 0.00 | 11.24 | 2.00 | 0.00 | 4.38 | 0.02 | 0.00 |
| 11.26 | 2.00 | 0.00 | 4.37 | 0.02 | 0.00 | 11.28 | 2.00 | 0.00 | 4.36 | 0.02 | 0.00 |
| 11.30 | 2.00 | 0.00 | 4.35 | 0.02 | 0.00 | 11.32 | 2.00 | 0.00 | 4.34 | 0.02 | 0.00 |
| 11.34 | 2.00 | 0.00 | 4.33 | 0.02 | 0.00 | 11.36 | 2.00 | 0.00 | 4.32 | 0.02 | 0.00 |
| 11.38 | 2.00 | 0.00 | 4.31 | 0.02 | 0.00 | 11.40 | 2.00 | 0.00 | 4.30 | 0.02 | 0.00 |
| 11.42 | 2.00 | 0.00 | 4.29 | 0.02 | 0.00 | 11.44 | 2.00 | 0.00 | 4.28 | 0.02 | 0.00 |
| 11.46 | 2.00 | 0.00 | 4.27 | 0.02 | 0.00 | 11.48 | 2.00 | 0.00 | 4.26 | 0.02 | 0.00 |
| 11.50 | 2.00 | 0.00 | 4.25 | 0.02 | 0.00 | 11.52 | 2.00 | 0.00 | 4.24 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 11.54 | 0.95 | 0.05 | 4.23 | 0.02 | 0.00 | 11.56 | 0.96 | 0.04 | 4.22 | 0.02 | 0.00 |
| 11.58 | 2.00 | 0.00 | 4.21 | 0.02 | 0.00 | 11.60 | 2.00 | 0.00 | 4.20 | 0.02 | 0.00 |
| 11.62 | 2.00 | 0.00 | 4.19 | 0.02 | 0.00 | 11.64 | 2.00 | 0.00 | 4.18 | 0.02 | 0.00 |
| 11.66 | 2.00 | 0.00 | 4.17 | 0.02 | 0.00 | 11.68 | 2.00 | 0.00 | 4.16 | 0.02 | 0.00 |
| 11.70 | 2.00 | 0.00 | 4.15 | 0.02 | 0.00 | 11.72 | 2.00 | 0.00 | 4.14 | 0.02 | 0.00 |
| 11.74 | 2.00 | 0.00 | 4.13 | 0.02 | 0.00 | 11.76 | 1.10 | 0.00 | 4.12 | 0.02 | 0.00 |
| 11.78 | 1.08 | 0.00 | 4.11 | 0.02 | 0.00 | 11.80 | 1.09 | 0.00 | 4.10 | 0.02 | 0.00 |
| 11.82 | 1.09 | 0.00 | 4.09 | 0.02 | 0.00 | 11.84 | 1.12 | 0.00 | 4.08 | 0.02 | 0.00 |
| 11.86 | 1.12 | 0.00 | 4.07 | 0.02 | 0.00 | 11.88 | 1.16 | 0.00 | 4.06 | 0.02 | 0.00 |
| 11.90 | 1.17 | 0.00 | 4.05 | 0.02 | 0.00 | 11.92 | 1.23 | 0.00 | 4.04 | 0.02 | 0.00 |
| 11.94 | 2.00 | 0.00 | 4.03 | 0.02 | 0.00 | 11.96 | 2.00 | 0.00 | 4.02 | 0.02 | 0.00 |
| 11.98 | 2.00 | 0.00 | 4.01 | 0.02 | 0.00 | 12.00 | 2.00 | 0.00 | 4.00 | 0.02 | 0.00 |
| 12.02 | 2.00 | 0.00 | 3.99 | 0.02 | 0.00 | 12.04 | 2.00 | 0.00 | 3.98 | 0.02 | 0.00 |
| 12.06 | 2.00 | 0.00 | 3.97 | 0.02 | 0.00 | 12.08 | 2.00 | 0.00 | 3.96 | 0.02 | 0.00 |
| 12.10 | 2.00 | 0.00 | 3.95 | 0.02 | 0.00 | 12.12 | 2.00 | 0.00 | 3.94 | 0.02 | 0.00 |
| 12.14 | 2.00 | 0.00 | 3.93 | 0.02 | 0.00 | 12.16 | 2.00 | 0.00 | 3.92 | 0.02 | 0.00 |
| 12.18 | 2.00 | 0.00 | 3.91 | 0.02 | 0.00 | 12.20 | 2.00 | 0.00 | 3.90 | 0.02 | 0.00 |
| 12.22 | 2.00 | 0.00 | 3.89 | 0.02 | 0.00 | 12.24 | 2.00 | 0.00 | 3.88 | 0.02 | 0.00 |
| 12.26 | 0.93 | 0.07 | 3.87 | 0.02 | 0.01 | 12.28 | 1.00 | 0.00 | 3.86 | 0.02 | 0.00 |
| 12.30 | 1.04 | 0.00 | 3.85 | 0.02 | 0.00 | 12.32 | 2.00 | 0.00 | 3.84 | 0.02 | 0.00 |
| 12.34 | 2.00 | 0.00 | 3.83 | 0.02 | 0.00 | 12.36 | 2.00 | 0.00 | 3.82 | 0.02 | 0.00 |
| 12.38 | 2.00 | 0.00 | 3.81 | 0.02 | 0.00 | 12.40 | 2.00 | 0.00 | 3.80 | 0.02 | 0.00 |
| 12.42 | 1.02 | 0.00 | 3.79 | 0.02 | 0.00 | 12.44 | 1.12 | 0.00 | 3.78 | 0.02 | 0.00 |
| 12.46 | 1.22 | 0.00 | 3.77 | 0.02 | 0.00 | 12.48 | 2.00 | 0.00 | 3.76 | 0.02 | 0.00 |
| 12.50 | 2.00 | 0.00 | 3.75 | 0.02 | 0.00 | 12.52 | 2.00 | 0.00 | 3.74 | 0.02 | 0.00 |
| 12.54 | 2.00 | 0.00 | 3.73 | 0.02 | 0.00 | 12.56 | 1.09 | 0.00 | 3.72 | 0.02 | 0.00 |
| 12.58 | 1.02 | 0.00 | 3.71 | 0.02 | 0.00 | 12.60 | 0.97 | 0.03 | 3.70 | 0.02 | 0.00 |
| 12.62 | 0.92 | 0.08 | 3.69 | 0.02 | 0.01 | 12.64 | 0.90 | 0.10 | 3.68 | 0.02 | 0.01 |
| 12.66 | 0.90 | 0.10 | 3.67 | 0.02 | 0.01 | 12.68 | 0.92 | 0.08 | 3.66 | 0.02 | 0.01 |
| 12.70 | 0.95 | 0.05 | 3.65 | 0.02 | 0.00 | 12.72 | 0.96 | 0.04 | 3.64 | 0.02 | 0.00 |
| 12.74 | 0.96 | 0.04 | 3.63 | 0.02 | 0.00 | 12.76 | 0.95 | 0.05 | 3.62 | 0.02 | 0.00 |
| 12.78 | 0.82 | 0.18 | 3.61 | 0.02 | 0.01 | 12.80 | 0.82 | 0.18 | 3.60 | 0.02 | 0.01 |
| 12.82 | 0.81 | 0.19 | 3.59 | 0.02 | 0.01 | 12.84 | 0.92 | 0.08 | 3.58 | 0.02 | 0.01 |
| 12.86 | 0.91 | 0.09 | 3.57 | 0.02 | 0.01 | 12.88 | 0.89 | 0.11 | 3.56 | 0.02 | 0.01 |
| 12.90 | 0.77 | 0.23 | 3.55 | 0.02 | 0.02 | 12.92 | 0.78 | 0.22 | 3.54 | 0.02 | 0.02 |
| 12.94 | 0.79 | 0.21 | 3.53 | 0.02 | 0.02 | 12.96 | 0.78 | 0.22 | 3.52 | 0.02 | 0.02 |
| 12.98 | 0.76 | 0.24 | 3.51 | 0.02 | 0.02 | 13.00 | 0.72 | 0.28 | 3.50 | 0.02 | 0.02 |
| 13.02 | 0.82 | 0.18 | 3.49 | 0.02 | 0.01 | 13.04 | 0.82 | 0.18 | 3.48 | 0.02 | 0.01 |
| 13.06 | 0.82 | 0.18 | 3.47 | 0.02 | 0.01 | 13.08 | 0.83 | 0.17 | 3.46 | 0.02 | 0.01 |
| 13.10 | 2.00 | 0.00 | 3.45 | 0.02 | 0.00 | 13.12 | 2.00 | 0.00 | 3.44 | 0.02 | 0.00 |
| 13.14 | 2.00 | 0.00 | 3.43 | 0.02 | 0.00 | 13.16 | 2.00 | 0.00 | 3.42 | 0.02 | 0.00 |
| 13.18 | 2.00 | 0.00 | 3.41 | 0.02 | 0.00 | 13.20 | 2.00 | 0.00 | 3.40 | 0.02 | 0.00 |
| 13.22 | 2.00 | 0.00 | 3.39 | 0.02 | 0.00 | 13.24 | 0.91 | 0.09 | 3.38 | 0.02 | 0.01 |
| 13.26 | 1.00 | 0.00 | 3.37 | 0.02 | 0.00 | 13.28 | 1.08 | 0.00 | 3.36 | 0.02 | 0.00 |
| 13.30 | 1.15 | 0.00 | 3.35 | 0.02 | 0.00 | 13.32 | 2.00 | 0.00 | 3.34 | 0.02 | 0.00 |
| 13.34 | 1.14 | 0.00 | 3.33 | 0.02 | 0.00 | 13.36 | 1.06 | 0.00 | 3.32 | 0.02 | 0.00 |
| 13.38 | 1.05 | 0.00 | 3.31 | 0.02 | 0.00 | 13.40 | 1.18 | 0.00 | 3.30 | 0.02 | 0.00 |
| 13.42 | 1.43 | 0.00 | 3.29 | 0.02 | 0.00 | 13.44 | 1.65 | 0.00 | 3.28 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 13.46 | 1.71 | 0.00 | 3.27 | 0.02 | 0.00 | 13.48 | 1.68 | 0.00 | 3.26 | 0.02 | 0.00 |
| 13.50 | 1.76 | 0.00 | 3.25 | 0.02 | 0.00 | 13.52 | 1.89 | 0.00 | 3.24 | 0.02 | 0.00 |
| 13.54 | 2.00 | 0.00 | 3.23 | 0.02 | 0.00 | 13.56 | 2.00 | 0.00 | 3.22 | 0.02 | 0.00 |
| 13.58 | 2.00 | 0.00 | 3.21 | 0.02 | 0.00 | 13.60 | 2.00 | 0.00 | 3.20 | 0.02 | 0.00 |
| 13.62 | 2.00 | 0.00 | 3.19 | 0.02 | 0.00 | 13.64 | 2.00 | 0.00 | 3.18 | 0.02 | 0.00 |
| 13.66 | 2.00 | 0.00 | 3.17 | 0.02 | 0.00 | 13.68 | 2.00 | 0.00 | 3.16 | 0.02 | 0.00 |
| 13.70 | 2.00 | 0.00 | 3.15 | 0.02 | 0.00 | 13.72 | 2.00 | 0.00 | 3.14 | 0.02 | 0.00 |
| 13.74 | 2.00 | 0.00 | 3.13 | 0.02 | 0.00 | 13.76 | 2.00 | 0.00 | 3.12 | 0.02 | 0.00 |
| 13.78 | 2.00 | 0.00 | 3.11 | 0.02 | 0.00 | 13.80 | 2.00 | 0.00 | 3.10 | 0.02 | 0.00 |
| 13.82 | 2.00 | 0.00 | 3.09 | 0.02 | 0.00 | 13.84 | 2.00 | 0.00 | 3.08 | 0.02 | 0.00 |
| 13.86 | 2.00 | 0.00 | 3.07 | 0.02 | 0.00 | 13.88 | 2.00 | 0.00 | 3.06 | 0.02 | 0.00 |
| 13.90 | 2.00 | 0.00 | 3.05 | 0.02 | 0.00 | 13.92 | 2.00 | 0.00 | 3.04 | 0.02 | 0.00 |
| 13.94 | 2.00 | 0.00 | 3.03 | 0.02 | 0.00 | 13.96 | 2.00 | 0.00 | 3.02 | 0.02 | 0.00 |
| 13.98 | 2.00 | 0.00 | 3.01 | 0.02 | 0.00 | 14.00 | 2.00 | 0.00 | 3.00 | 0.02 | 0.00 |
| 14.02 | 2.00 | 0.00 | 2.99 | 0.02 | 0.00 | 14.04 | 2.00 | 0.00 | 2.98 | 0.02 | 0.00 |
| 14.06 | 0.88 | 0.12 | 2.97 | 0.02 | 0.01 | 14.08 | 0.83 | 0.17 | 2.96 | 0.02 | 0.01 |
| 14.10 | 1.02 | 0.00 | 2.95 | 0.02 | 0.00 | 14.12 | 1.34 | 0.00 | 2.94 | 0.02 | 0.00 |
| 14.14 | 1.45 | 0.00 | 2.93 | 0.02 | 0.00 | 14.16 | 1.50 | 0.00 | 2.92 | 0.02 | 0.00 |
| 14.18 | 1.57 | 0.00 | 2.91 | 0.02 | 0.00 | 14.20 | 2.00 | 0.00 | 2.90 | 0.02 | 0.00 |
| 14.22 | 2.00 | 0.00 | 2.89 | 0.02 | 0.00 | 14.24 | 2.00 | 0.00 | 2.88 | 0.02 | 0.00 |
| 14.26 | 2.00 | 0.00 | 2.87 | 0.02 | 0.00 | 14.28 | 2.00 | 0.00 | 2.86 | 0.02 | 0.00 |
| 14.30 | 2.00 | 0.00 | 2.85 | 0.02 | 0.00 | 14.32 | 1.22 | 0.00 | 2.84 | 0.02 | 0.00 |
| 14.34 | 2.00 | 0.00 | 2.83 | 0.02 | 0.00 | 14.36 | 2.00 | 0.00 | 2.82 | 0.02 | 0.00 |
| 14.38 | 2.00 | 0.00 | 2.81 | 0.02 | 0.00 | 14.40 | 2.00 | 0.00 | 2.80 | 0.02 | 0.00 |
| 14.42 | 2.00 | 0.00 | 2.79 | 0.02 | 0.00 | 14.44 | 2.00 | 0.00 | 2.78 | 0.02 | 0.00 |
| 14.46 | 2.00 | 0.00 | 2.77 | 0.02 | 0.00 | 14.48 | 2.00 | 0.00 | 2.76 | 0.02 | 0.00 |
| 14.50 | 2.00 | 0.00 | 2.75 | 0.02 | 0.00 | 14.52 | 0.98 | 0.02 | 2.74 | 0.02 | 0.00 |
| 14.54 | 1.01 | 0.00 | 2.73 | 0.02 | 0.00 | 14.56 | 1.23 | 0.00 | 2.72 | 0.02 | 0.00 |
| 14.58 | 1.53 | 0.00 | 2.71 | 0.02 | 0.00 | 14.60 | 1.79 | 0.00 | 2.70 | 0.02 | 0.00 |
| 14.62 | 1.92 | 0.00 | 2.69 | 0.02 | 0.00 | 14.64 | 2.00 | 0.00 | 2.68 | 0.02 | 0.00 |
| 14.66 | 2.00 | 0.00 | 2.67 | 0.02 | 0.00 | 14.68 | 2.00 | 0.00 | 2.66 | 0.02 | 0.00 |
| 14.70 | 2.00 | 0.00 | 2.65 | 0.02 | 0.00 | 14.72 | 2.00 | 0.00 | 2.64 | 0.02 | 0.00 |
| 14.74 | 2.00 | 0.00 | 2.63 | 0.02 | 0.00 | 14.76 | 2.00 | 0.00 | 2.62 | 0.02 | 0.00 |
| 14.78 | 2.00 | 0.00 | 2.61 | 0.02 | 0.00 | 14.80 | 2.00 | 0.00 | 2.60 | 0.02 | 0.00 |
| 14.82 | 2.00 | 0.00 | 2.59 | 0.02 | 0.00 | 14.84 | 2.00 | 0.00 | 2.58 | 0.02 | 0.00 |
| 14.86 | 2.00 | 0.00 | 2.57 | 0.02 | 0.00 | 14.88 | 2.00 | 0.00 | 2.56 | 0.02 | 0.00 |
| 14.90 | 2.00 | 0.00 | 2.55 | 0.02 | 0.00 | 14.92 | 2.00 | 0.00 | 2.54 | 0.02 | 0.00 |
| 14.94 | 2.00 | 0.00 | 2.53 | 0.02 | 0.00 | 14.96 | 2.00 | 0.00 | 2.52 | 0.02 | 0.00 |
| 14.98 | 2.00 | 0.00 | 2.51 | 0.02 | 0.00 | 15.00 | 2.00 | 0.00 | 2.50 | 0.02 | 0.00 |
| 15.02 | 2.00 | 0.00 | 2.49 | 0.02 | 0.00 | 15.04 | 2.00 | 0.00 | 2.48 | 0.02 | 0.00 |
| 15.06 | 2.00 | 0.00 | 2.47 | 0.02 | 0.00 | 15.08 | 2.00 | 0.00 | 2.46 | 0.02 | 0.00 |
| 15.10 | 2.00 | 0.00 | 2.45 | 0.02 | 0.00 | 15.12 | 2.00 | 0.00 | 2.44 | 0.02 | 0.00 |
| 15.14 | 2.00 | 0.00 | 2.43 | 0.02 | 0.00 | 15.16 | 2.00 | 0.00 | 2.42 | 0.02 | 0.00 |
| 15.18 | 2.00 | 0.00 | 2.41 | 0.02 | 0.00 | 15.20 | 2.00 | 0.00 | 2.40 | 0.02 | 0.00 |
| 15.22 | 2.00 | 0.00 | 2.39 | 0.02 | 0.00 | 15.24 | 2.00 | 0.00 | 2.38 | 0.02 | 0.00 |
| 15.26 | 2.00 | 0.00 | 2.37 | 0.02 | 0.00 | 15.28 | 2.00 | 0.00 | 2.36 | 0.02 | 0.00 |
| 15.30 | 2.00 | 0.00 | 2.35 | 0.02 | 0.00 | 15.32 | 2.00 | 0.00 | 2.34 | 0.02 | 0.00 |
| 15.34 | 2.00 | 0.00 | 2.33 | 0.02 | 0.00 | 15.36 | 2.00 | 0.00 | 2.32 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 15.38 | 2.00 | 0.00 | 2.31 | 0.02 | 0.00 | 15.40 | 2.00 | 0.00 | 2.30 | 0.02 | 0.00 |
| 15.42 | 2.00 | 0.00 | 2.29 | 0.02 | 0.00 | 15.44 | 2.00 | 0.00 | 2.28 | 0.02 | 0.00 |
| 15.46 | 2.00 | 0.00 | 2.27 | 0.02 | 0.00 | 15.48 | 2.00 | 0.00 | 2.26 | 0.02 | 0.00 |
| 15.50 | 2.00 | 0.00 | 2.25 | 0.02 | 0.00 | 15.52 | 2.00 | 0.00 | 2.24 | 0.02 | 0.00 |
| 15.54 | 2.00 | 0.00 | 2.23 | 0.02 | 0.00 | 15.56 | 2.00 | 0.00 | 2.22 | 0.02 | 0.00 |
| 15.58 | 2.00 | 0.00 | 2.21 | 0.02 | 0.00 | 15.60 | 2.00 | 0.00 | 2.20 | 0.02 | 0.00 |
| 15.62 | 2.00 | 0.00 | 2.19 | 0.02 | 0.00 | 15.64 | 2.00 | 0.00 | 2.18 | 0.02 | 0.00 |
| 15.66 | 2.00 | 0.00 | 2.17 | 0.02 | 0.00 | 15.68 | 2.00 | 0.00 | 2.16 | 0.02 | 0.00 |
| 15.70 | 2.00 | 0.00 | 2.15 | 0.02 | 0.00 | 15.72 | 2.00 | 0.00 | 2.14 | 0.02 | 0.00 |
| 15.74 | 2.00 | 0.00 | 2.13 | 0.02 | 0.00 | 15.76 | 2.00 | 0.00 | 2.12 | 0.02 | 0.00 |
| 15.78 | 2.00 | 0.00 | 2.11 | 0.02 | 0.00 | 15.80 | 2.00 | 0.00 | 2.10 | 0.02 | 0.00 |
| 15.82 | 2.00 | 0.00 | 2.09 | 0.02 | 0.00 | 15.84 | 2.00 | 0.00 | 2.08 | 0.02 | 0.00 |
| 15.86 | 2.00 | 0.00 | 2.07 | 0.02 | 0.00 | 15.88 | 2.00 | 0.00 | 2.06 | 0.02 | 0.00 |
| 15.90 | 2.00 | 0.00 | 2.05 | 0.02 | 0.00 | 15.92 | 2.00 | 0.00 | 2.04 | 0.02 | 0.00 |
| 15.94 | 2.00 | 0.00 | 2.03 | 0.02 | 0.00 | 15.96 | 2.00 | 0.00 | 2.02 | 0.02 | 0.00 |
| 15.98 | 2.00 | 0.00 | 2.01 | 0.02 | 0.00 | 16.00 | 2.00 | 0.00 | 2.00 | 0.02 | 0.00 |
| 16.02 | 2.00 | 0.00 | 1.99 | 0.02 | 0.00 | 16.04 | 2.00 | 0.00 | 1.98 | 0.02 | 0.00 |
| 16.06 | 2.00 | 0.00 | 1.97 | 0.02 | 0.00 | 16.08 | 2.00 | 0.00 | 1.96 | 0.02 | 0.00 |
| 16.10 | 2.00 | 0.00 | 1.95 | 0.02 | 0.00 | 16.12 | 2.00 | 0.00 | 1.94 | 0.02 | 0.00 |
| 16.14 | 2.00 | 0.00 | 1.93 | 0.02 | 0.00 | 16.16 | 2.00 | 0.00 | 1.92 | 0.02 | 0.00 |
| 16.18 | 2.00 | 0.00 | 1.91 | 0.02 | 0.00 | 16.20 | 2.00 | 0.00 | 1.90 | 0.02 | 0.00 |
| 16.22 | 2.00 | 0.00 | 1.89 | 0.02 | 0.00 | 16.24 | 2.00 | 0.00 | 1.88 | 0.02 | 0.00 |
| 16.26 | 2.00 | 0.00 | 1.87 | 0.02 | 0.00 | 16.28 | 2.00 | 0.00 | 1.86 | 0.02 | 0.00 |
| 16.30 | 2.00 | 0.00 | 1.85 | 0.02 | 0.00 | 16.32 | 2.00 | 0.00 | 1.84 | 0.02 | 0.00 |
| 16.34 | 2.00 | 0.00 | 1.83 | 0.02 | 0.00 | 16.36 | 2.00 | 0.00 | 1.82 | 0.02 | 0.00 |
| 16.38 | 2.00 | 0.00 | 1.81 | 0.02 | 0.00 | 16.40 | 2.00 | 0.00 | 1.80 | 0.02 | 0.00 |
| 16.42 | 2.00 | 0.00 | 1.79 | 0.02 | 0.00 | 16.44 | 2.00 | 0.00 | 1.78 | 0.02 | 0.00 |
| 16.46 | 2.00 | 0.00 | 1.77 | 0.02 | 0.00 | 16.48 | 2.00 | 0.00 | 1.76 | 0.02 | 0.00 |
| 16.50 | 2.00 | 0.00 | 1.75 | 0.02 | 0.00 | 16.52 | 2.00 | 0.00 | 1.74 | 0.02 | 0.00 |
| 16.54 | 1.07 | 0.00 | 1.73 | 0.02 | 0.00 | 16.56 | 1.04 | 0.00 | 1.72 | 0.02 | 0.00 |
| 16.58 | 1.05 | 0.00 | 1.71 | 0.02 | 0.00 | 16.60 | 1.05 | 0.00 | 1.70 | 0.02 | 0.00 |
| 16.62 | 1.04 | 0.00 | 1.69 | 0.02 | 0.00 | 16.64 | 1.04 | 0.00 | 1.68 | 0.02 | 0.00 |
| 16.66 | 1.03 | 0.00 | 1.67 | 0.02 | 0.00 | 16.68 | 1.03 | 0.00 | 1.66 | 0.02 | 0.00 |
| 16.70 | 1.02 | 0.00 | 1.65 | 0.02 | 0.00 | 16.72 | 1.02 | 0.00 | 1.64 | 0.02 | 0.00 |
| 16.74 | 1.02 | 0.00 | 1.63 | 0.02 | 0.00 | 16.76 | 1.01 | 0.00 | 1.62 | 0.02 | 0.00 |
| 16.78 | 1.00 | 0.00 | 1.61 | 0.02 | 0.00 | 16.80 | 1.00 | 0.00 | 1.60 | 0.02 | 0.00 |
| 16.82 | 1.00 | 0.00 | 1.59 | 0.02 | 0.00 | 16.84 | 1.03 | 0.00 | 1.58 | 0.02 | 0.00 |
| 16.86 | 1.05 | 0.00 | 1.57 | 0.02 | 0.00 | 16.88 | 1.06 | 0.00 | 1.56 | 0.02 | 0.00 |
| 16.90 | 1.06 | 0.00 | 1.55 | 0.02 | 0.00 | 16.92 | 1.05 | 0.00 | 1.54 | 0.02 | 0.00 |
| 16.94 | 1.04 | 0.00 | 1.53 | 0.02 | 0.00 | 16.96 | 1.04 | 0.00 | 1.52 | 0.02 | 0.00 |
| 16.98 | 1.05 | 0.00 | 1.51 | 0.02 | 0.00 | 17.00 | 1.06 | 0.00 | 1.50 | 0.02 | 0.00 |
| 17.02 | 1.09 | 0.00 | 1.49 | 0.02 | 0.00 | 17.04 | 1.14 | 0.00 | 1.48 | 0.02 | 0.00 |
| 17.06 | 1.20 | 0.00 | 1.47 | 0.02 | 0.00 | 17.08 | 2.00 | 0.00 | 1.46 | 0.02 | 0.00 |
| 17.10 | 2.00 | 0.00 | 1.45 | 0.02 | 0.00 | 17.12 | 2.00 | 0.00 | 1.44 | 0.02 | 0.00 |
| 17.14 | 2.00 | 0.00 | 1.43 | 0.02 | 0.00 | 17.16 | 2.00 | 0.00 | 1.42 | 0.02 | 0.00 |
| 17.18 | 2.00 | 0.00 | 1.41 | 0.02 | 0.00 | 17.20 | 2.00 | 0.00 | 1.40 | 0.02 | 0.00 |
| 17.22 | 2.00 | 0.00 | 1.39 | 0.02 | 0.00 | 17.24 | 2.00 | 0.00 | 1.38 | 0.02 | 0.00 |
| 17.26 | 2.00 | 0.00 | 1.37 | 0.02 | 0.00 | 17.28 | 2.00 | 0.00 | 1.36 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 17.30 | 2.00 | 0.00 | 1.35 | 0.02 | 0.00 | 17.32 | 2.00 | 0.00 | 1.34 | 0.02 | 0.00 |
| 17.34 | 2.00 | 0.00 | 1.33 | 0.02 | 0.00 | 17.36 | 2.00 | 0.00 | 1.32 | 0.02 | 0.00 |
| 17.38 | 2.00 | 0.00 | 1.31 | 0.02 | 0.00 | 17.40 | 2.00 | 0.00 | 1.30 | 0.02 | 0.00 |
| 17.42 | 2.00 | 0.00 | 1.29 | 0.02 | 0.00 | 17.44 | 2.00 | 0.00 | 1.28 | 0.02 | 0.00 |
| 17.46 | 2.00 | 0.00 | 1.27 | 0.02 | 0.00 | 17.48 | 2.00 | 0.00 | 1.26 | 0.02 | 0.00 |
| 17.50 | 2.00 | 0.00 | 1.25 | 0.02 | 0.00 | 17.52 | 2.00 | 0.00 | 1.24 | 0.02 | 0.00 |
| 17.54 | 2.00 | 0.00 | 1.23 | 0.02 | 0.00 | 17.56 | 2.00 | 0.00 | 1.22 | 0.02 | 0.00 |
| 17.58 | 2.00 | 0.00 | 1.21 | 0.02 | 0.00 | 17.60 | 2.00 | 0.00 | 1.20 | 0.02 | 0.00 |
| 17.62 | 2.00 | 0.00 | 1.19 | 0.02 | 0.00 | 17.64 | 2.00 | 0.00 | 1.18 | 0.02 | 0.00 |
| 17.66 | 2.00 | 0.00 | 1.17 | 0.02 | 0.00 | 17.68 | 2.00 | 0.00 | 1.16 | 0.02 | 0.00 |
| 17.70 | 2.00 | 0.00 | 1.15 | 0.02 | 0.00 | 17.72 | 2.00 | 0.00 | 1.14 | 0.02 | 0.00 |
| 17.74 | 2.00 | 0.00 | 1.13 | 0.02 | 0.00 | 17.76 | 2.00 | 0.00 | 1.12 | 0.02 | 0.00 |
| 17.78 | 2.00 | 0.00 | 1.11 | 0.02 | 0.00 | 17.80 | 2.00 | 0.00 | 1.10 | 0.02 | 0.00 |
| 17.82 | 2.00 | 0.00 | 1.09 | 0.02 | 0.00 | 17.84 | 2.00 | 0.00 | 1.08 | 0.02 | 0.00 |
| 17.86 | 2.00 | 0.00 | 1.07 | 0.02 | 0.00 | 17.88 | 2.00 | 0.00 | 1.06 | 0.02 | 0.00 |
| 17.90 | 2.00 | 0.00 | 1.05 | 0.02 | 0.00 | 17.92 | 2.00 | 0.00 | 1.04 | 0.02 | 0.00 |
| 17.94 | 2.00 | 0.00 | 1.03 | 0.02 | 0.00 | 17.96 | 2.00 | 0.00 | 1.02 | 0.02 | 0.00 |
| 17.98 | 2.00 | 0.00 | 1.01 | 0.02 | 0.00 | 18.00 | 2.00 | 0.00 | 1.00 | 0.02 | 0.00 |
| 18.02 | 2.00 | 0.00 | 0.99 | 0.02 | 0.00 | 18.04 | 2.00 | 0.00 | 0.98 | 0.02 | 0.00 |
| 18.06 | 2.00 | 0.00 | 0.97 | 0.02 | 0.00 | 18.08 | 2.00 | 0.00 | 0.96 | 0.02 | 0.00 |
| 18.10 | 2.00 | 0.00 | 0.95 | 0.02 | 0.00 | 18.12 | 2.00 | 0.00 | 0.94 | 0.02 | 0.00 |
| 18.14 | 2.00 | 0.00 | 0.93 | 0.02 | 0.00 | 18.16 | 2.00 | 0.00 | 0.92 | 0.02 | 0.00 |
| 18.18 | 2.00 | 0.00 | 0.91 | 0.02 | 0.00 | 18.20 | 2.00 | 0.00 | 0.90 | 0.02 | 0.00 |
| 18.22 | 2.00 | 0.00 | 0.89 | 0.02 | 0.00 | 18.24 | 2.00 | 0.00 | 0.88 | 0.02 | 0.00 |
| 18.26 | 2.00 | 0.00 | 0.87 | 0.02 | 0.00 | 18.28 | 2.00 | 0.00 | 0.86 | 0.02 | 0.00 |
| 18.30 | 2.00 | 0.00 | 0.85 | 0.02 | 0.00 | 18.32 | 2.00 | 0.00 | 0.84 | 0.02 | 0.00 |
| 18.34 | 2.00 | 0.00 | 0.83 | 0.02 | 0.00 | 18.36 | 2.00 | 0.00 | 0.82 | 0.02 | 0.00 |
| 18.38 | 2.00 | 0.00 | 0.81 | 0.02 | 0.00 | 18.40 | 2.00 | 0.00 | 0.80 | 0.02 | 0.00 |
| 18.42 | 2.00 | 0.00 | 0.79 | 0.02 | 0.00 | 18.44 | 2.00 | 0.00 | 0.78 | 0.02 | 0.00 |
| 18.46 | 2.00 | 0.00 | 0.77 | 0.02 | 0.00 | 18.48 | 2.00 | 0.00 | 0.76 | 0.02 | 0.00 |
| 18.50 | 2.00 | 0.00 | 0.75 | 0.02 | 0.00 | 18.52 | 2.00 | 0.00 | 0.74 | 0.02 | 0.00 |
| 18.54 | 2.00 | 0.00 | 0.73 | 0.02 | 0.00 | 18.56 | 2.00 | 0.00 | 0.72 | 0.02 | 0.00 |
| 18.58 | 2.00 | 0.00 | 0.71 | 0.02 | 0.00 | 18.60 | 2.00 | 0.00 | 0.70 | 0.02 | 0.00 |
| 18.62 | 2.00 | 0.00 | 0.69 | 0.02 | 0.00 | 18.64 | 2.00 | 0.00 | 0.68 | 0.02 | 0.00 |
| 18.66 | 2.00 | 0.00 | 0.67 | 0.02 | 0.00 | 18.68 | 2.00 | 0.00 | 0.66 | 0.02 | 0.00 |
| 18.70 | 2.00 | 0.00 | 0.65 | 0.02 | 0.00 | 18.72 | 2.00 | 0.00 | 0.64 | 0.02 | 0.00 |
| 18.74 | 2.00 | 0.00 | 0.63 | 0.02 | 0.00 | 18.76 | 2.00 | 0.00 | 0.62 | 0.02 | 0.00 |
| 18.78 | 2.00 | 0.00 | 0.61 | 0.02 | 0.00 | 18.80 | 2.00 | 0.00 | 0.60 | 0.02 | 0.00 |
| 18.82 | 2.00 | 0.00 | 0.59 | 0.02 | 0.00 | 18.84 | 2.00 | 0.00 | 0.58 | 0.02 | 0.00 |
| 18.86 | 2.00 | 0.00 | 0.57 | 0.02 | 0.00 | 18.88 | 2.00 | 0.00 | 0.56 | 0.02 | 0.00 |
| 18.90 | 2.00 | 0.00 | 0.55 | 0.02 | 0.00 | 18.92 | 2.00 | 0.00 | 0.54 | 0.02 | 0.00 |
| 18.94 | 2.00 | 0.00 | 0.53 | 0.02 | 0.00 | 18.96 | 2.00 | 0.00 | 0.52 | 0.02 | 0.00 |
| 18.98 | 2.00 | 0.00 | 0.51 | 0.02 | 0.00 | 19.00 | 2.00 | 0.00 | 0.50 | 0.02 | 0.00 |
| 19.02 | 2.00 | 0.00 | 0.49 | 0.02 | 0.00 | 19.04 | 2.00 | 0.00 | 0.48 | 0.02 | 0.00 |
| 19.06 | 2.00 | 0.00 | 0.47 | 0.02 | 0.00 | 19.08 | 2.00 | 0.00 | 0.46 | 0.02 | 0.00 |
| 19.10 | 2.00 | 0.00 | 0.45 | 0.02 | 0.00 | 19.12 | 2.00 | 0.00 | 0.44 | 0.02 | 0.00 |
| 19.14 | 2.00 | 0.00 | 0.43 | 0.02 | 0.00 | 19.16 | 2.00 | 0.00 | 0.42 | 0.02 | 0.00 |
| 19.18 | 2.00 | 0.00 | 0.41 | 0.02 | 0.00 | 19.20 | 2.00 | 0.00 | 0.40 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 19.22 | 2.00 | 0.00 | 0.39 | 0.02 | 0.00 | 19.24 | 2.00 | 0.00 | 0.38 | 0.02 | 0.00 |
| 19.26 | 2.00 | 0.00 | 0.37 | 0.02 | 0.00 | 19.28 | 2.00 | 0.00 | 0.36 | 0.02 | 0.00 |
| 19.30 | 2.00 | 0.00 | 0.35 | 0.02 | 0.00 | 19.32 | 2.00 | 0.00 | 0.34 | 0.02 | 0.00 |
| 19.34 | 2.00 | 0.00 | 0.33 | 0.02 | 0.00 | 19.36 | 2.00 | 0.00 | 0.32 | 0.02 | 0.00 |
| 19.38 | 1.14 | 0.00 | 0.31 | 0.02 | 0.00 | 19.40 | 1.12 | 0.00 | 0.30 | 0.02 | 0.00 |
| 19.42 | 1.10 | 0.00 | 0.29 | 0.02 | 0.00 | 19.44 | 1.10 | 0.00 | 0.28 | 0.02 | 0.00 |
| 19.46 | 1.12 | 0.00 | 0.27 | 0.02 | 0.00 | 19.48 | 2.00 | 0.00 | 0.26 | 0.02 | 0.00 |
| 19.50 | 2.00 | 0.00 | 0.25 | 0.02 | 0.00 | 19.52 | 2.00 | 0.00 | 0.24 | 0.02 | 0.00 |
| 19.54 | 2.00 | 0.00 | 0.23 | 0.02 | 0.00 | 19.56 | 2.00 | 0.00 | 0.22 | 0.02 | 0.00 |
| 19.58 | 1.08 | 0.00 | 0.21 | 0.02 | 0.00 | 19.60 | 1.12 | 0.00 | 0.20 | 0.02 | 0.00 |
| 19.62 | 2.00 | 0.00 | 0.19 | 0.02 | 0.00 | 19.64 | 2.00 | 0.00 | 0.18 | 0.02 | 0.00 |
| 19.66 | 2.00 | 0.00 | 0.17 | 0.02 | 0.00 | 19.68 | 2.00 | 0.00 | 0.16 | 0.02 | 0.00 |
| 19.70 | 2.00 | 0.00 | 0.15 | 0.02 | 0.00 | 19.72 | 2.00 | 0.00 | 0.14 | 0.02 | 0.00 |
| 19.74 | 2.00 | 0.00 | 0.13 | 0.02 | 0.00 | 19.76 | 2.00 | 0.00 | 0.12 | 0.02 | 0.00 |
| 19.78 | 2.00 | 0.00 | 0.11 | 0.02 | 0.00 | 19.80 | 2.00 | 0.00 | 0.10 | 0.02 | 0.00 |
| 19.82 | 2.00 | 0.00 | 0.09 | 0.02 | 0.00 | 19.84 | 2.00 | 0.00 | 0.08 | 0.02 | 0.00 |
| 19.86 | 2.00 | 0.00 | 0.07 | 0.02 | 0.00 | 19.88 | 2.00 | 0.00 | 0.06 | 0.02 | 0.00 |
| 19.90 | 2.00 | 0.00 | 0.05 | 0.02 | 0.00 | | | | | | |

Overall liquefaction potential: 1.04

LPI = 0.00 - Liquefaction risk very low

LPI between 0.00 and 5.00 - Liquefaction risk low

LPI between 5.00 and 15.00 - Liquefaction risk high

LPI > 15.00 - Liquefaction risk very high

Abbreviations

FS: Calculated factor of safety for test point

F_L: 1 - FSw_z: Function value of the extend of soil liquefaction according to depthd_z: Layer thickness (m)

LPI: Liquefaction potential index value for test point

LIQUEFACTION ANALYSIS REPORT

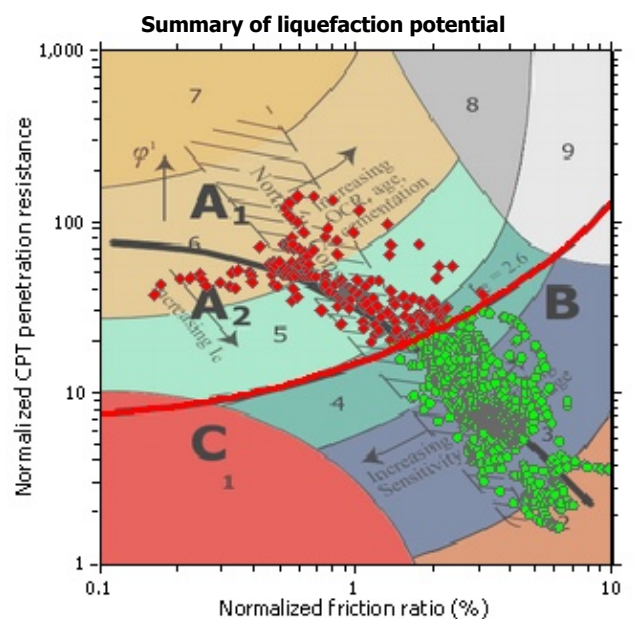
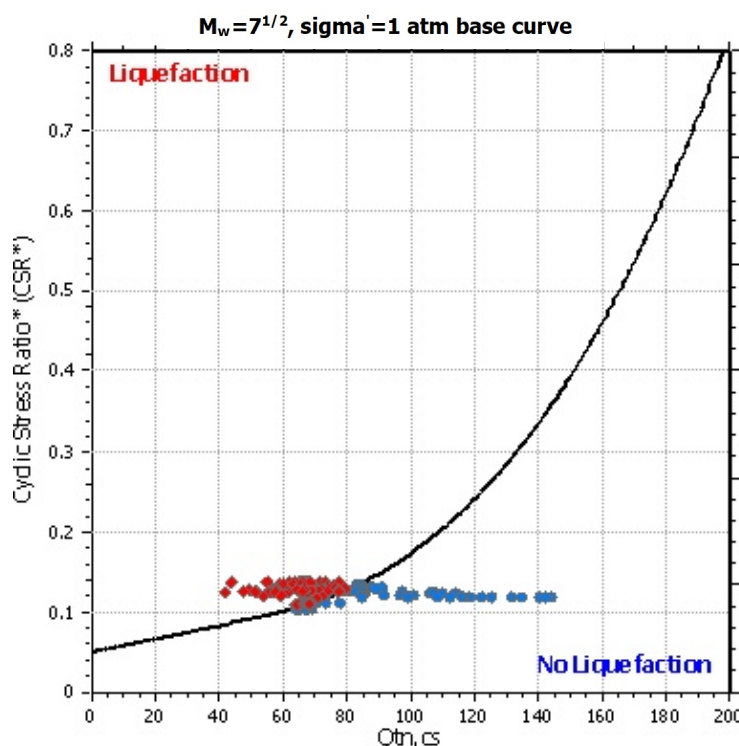
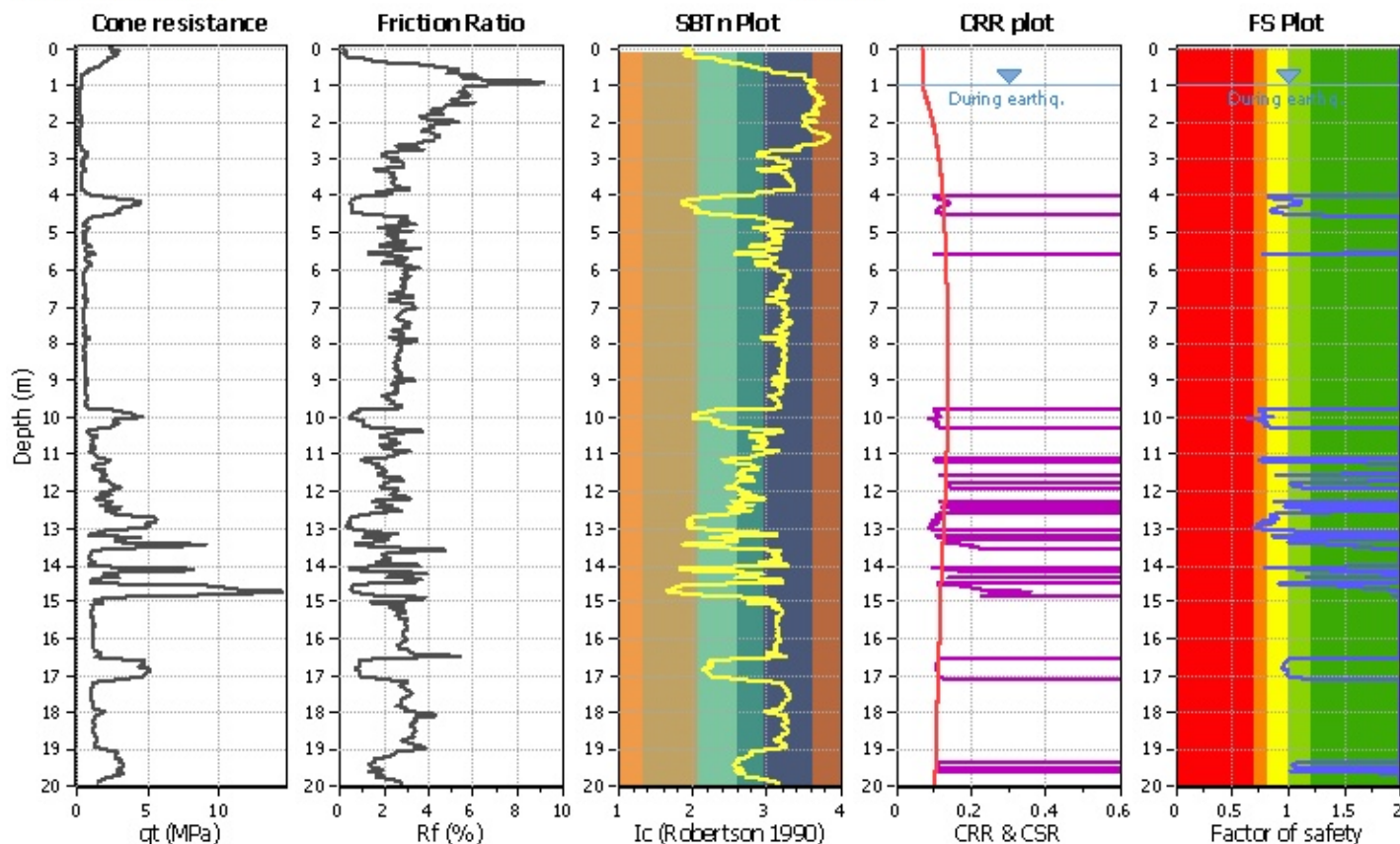
Project title :

Location :

CPT file : CPTU2

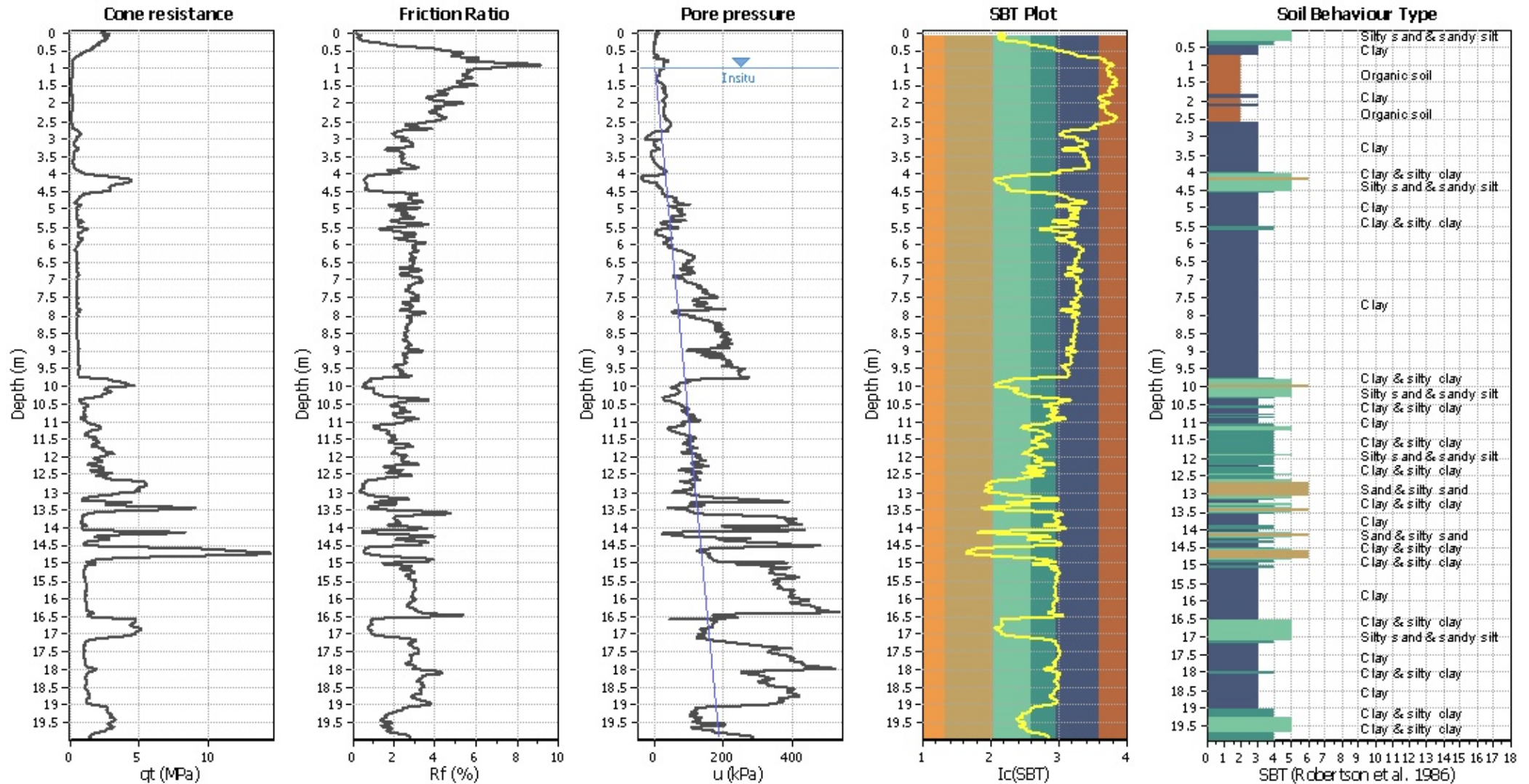
Input parameters and analysis data

| | | | | | | | |
|------------------------------|-------------------|---------------------------|--------------|-------------------------|-----|----------------------|--------------|
| Analysis method: | NCEER (1998) | G.W.T. (in-situ): | 1.00 m | Use fill: | No | Clay like behavior | |
| Fines correction method: | NCEER (1998) | G.W.T. (earthq.): | 1.00 m | Fill height: | N/A | applied: | Sands only |
| Points to test: | Based on Ic value | Average results interval: | 3 | Fill weight: | N/A | Limit depth applied: | No |
| Earthquake magnitude M_w : | 6.14 | Ic cut-off value: | 2.60 | Trans. detect. applied: | No | Limit depth: | N/A |
| Peak ground acceleration: | 0.17 | Unit weight calculation: | Based on SBT | K_0 applied: | Yes | MSF method: | Method based |



Zone A₁: Cyclic liquefaction likely depending on size and duration of cyclic loading
 Zone A₂: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
 Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
 Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

CPT basic interpretation plo



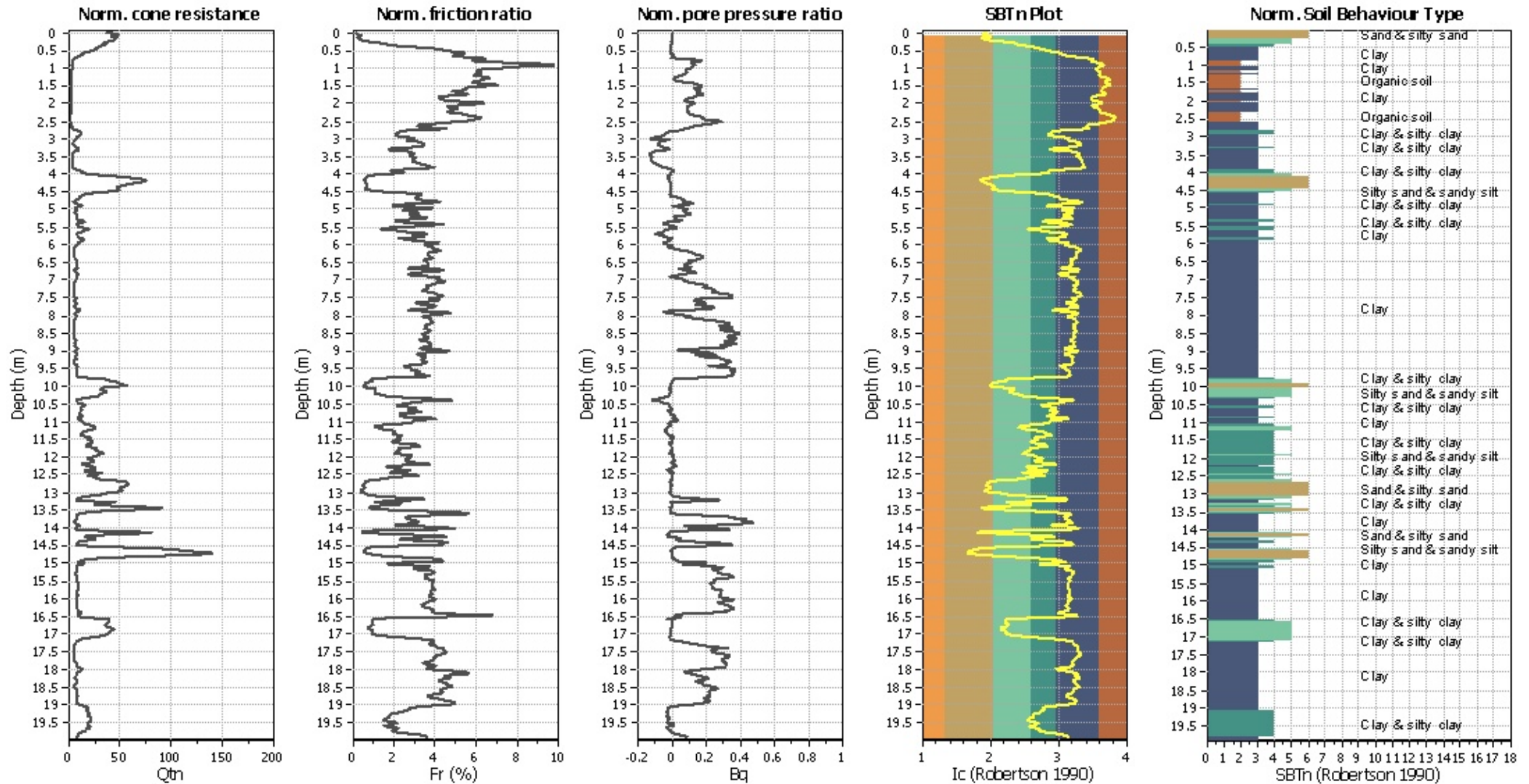
Input parameters and analysis data

| | | | | | |
|---------------------------------------|-------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K ₀ applied: | Yes |
| Earthquake magnitude M _w : | 6.14 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

SBT legend

| | | |
|---------------------------|-----------------------------|----------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty | 7. Gravely sand to sand |
| 2. Organic material | 5. Silty sand to sandy silt | 8. Very stiff sand to |
| 3. Clay to silty clay | 6. Clean sand to silty sand | 9. Very stiff fine grained |

CPT basic interpretation plots (normaliz



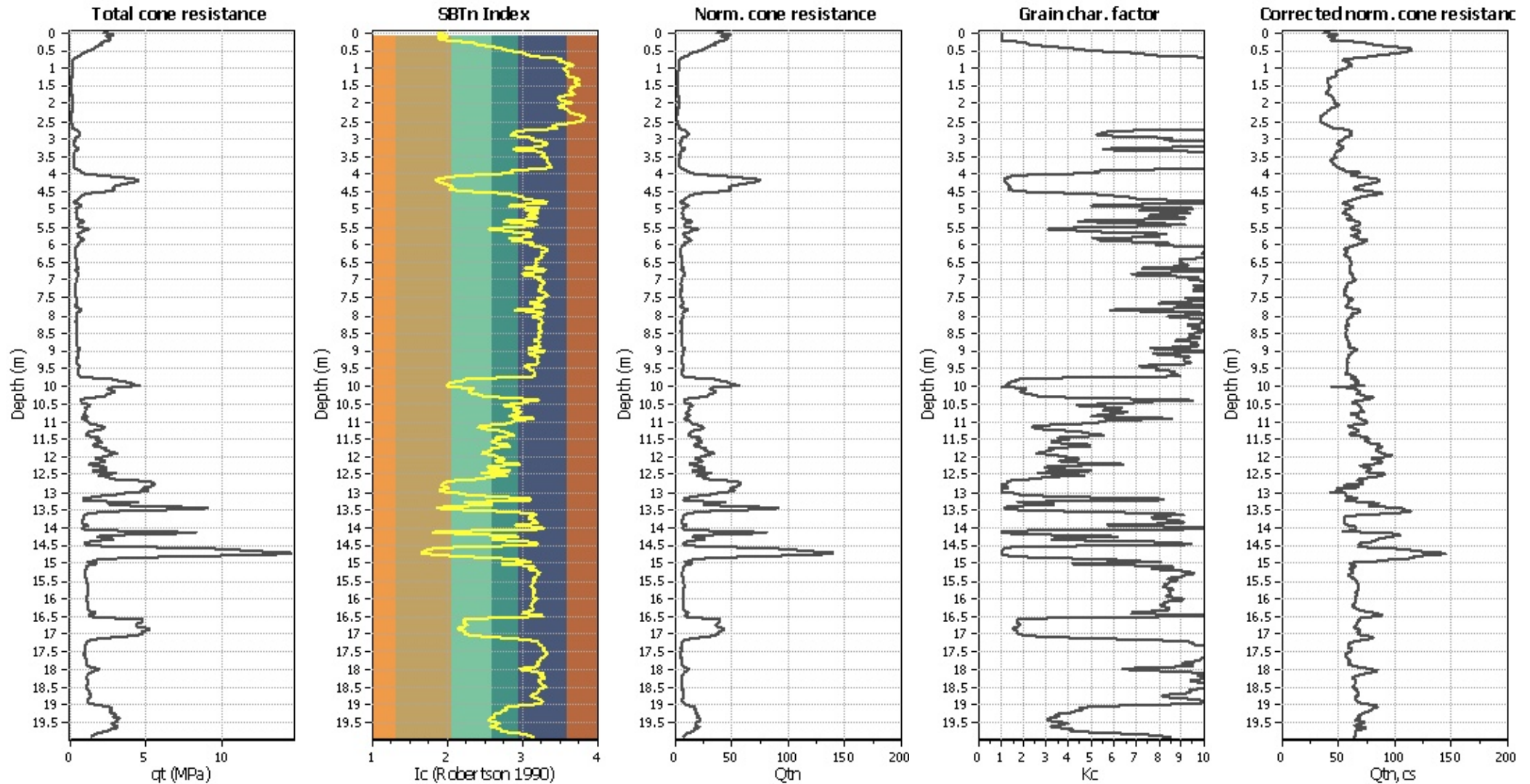
Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 6.14 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

SBTn legend

| | | |
|---------------------------|-----------------------------|----------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty | 7. Gravely sand to sand |
| 2. Organic material | 5. Silty sand to sandy silt | 8. Very stiff sand to |
| 3. Clay to silty clay | 6. Clean sand to silty sand | 9. Very stiff fine grained |

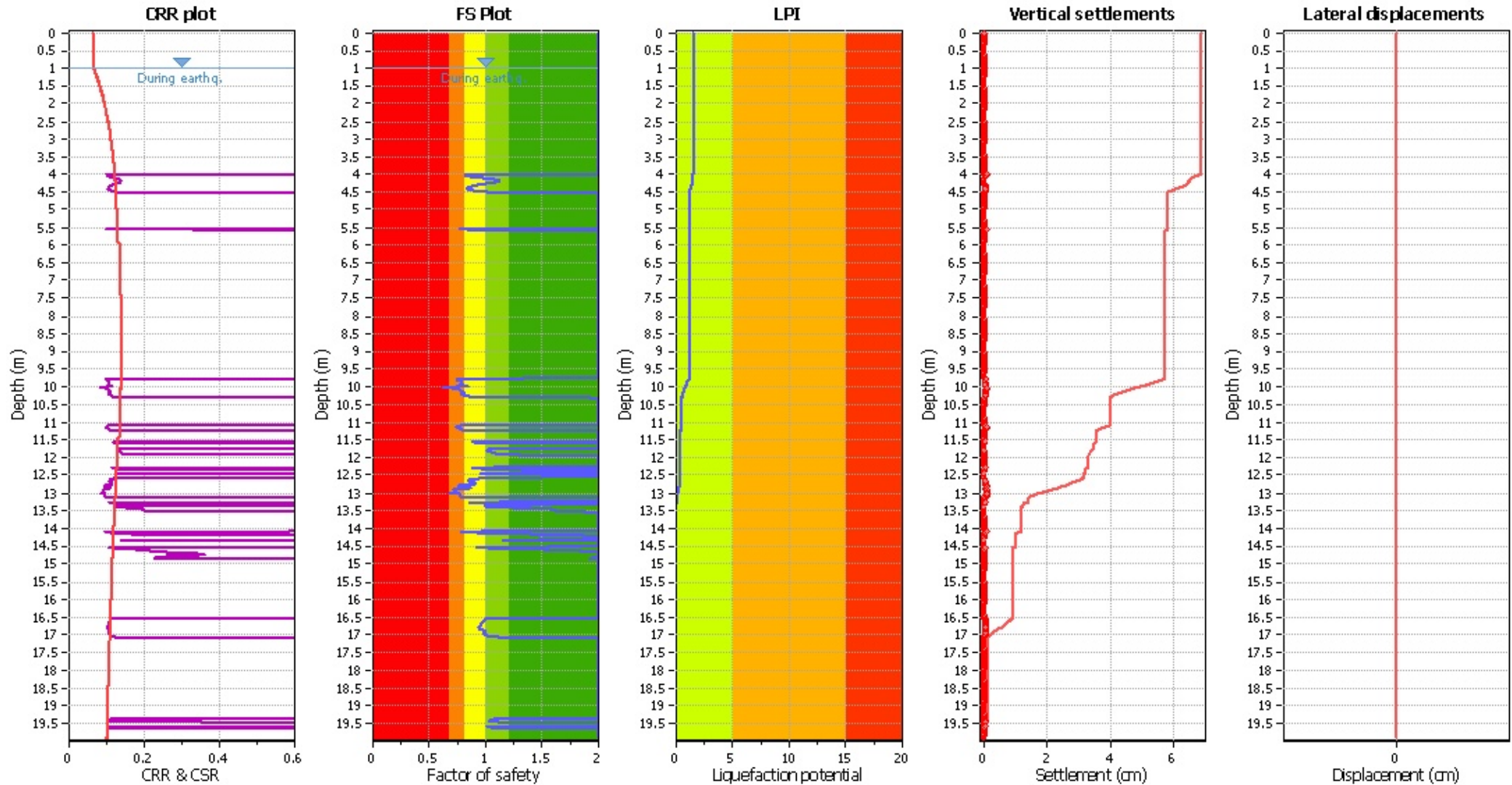
Liquefaction analysis overall plots (intermediate res)



Input parameters and analysis data

| | | | | | |
|---------------------------------------|-------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K ₀ applied: | Yes |
| Earthquake magnitude M _w : | 6.14 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

Liquefaction analysis overall plot



Input parameters and analysis data

| | | | | | |
|--------------------------------|-------------------|---------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (earthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 6.14 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

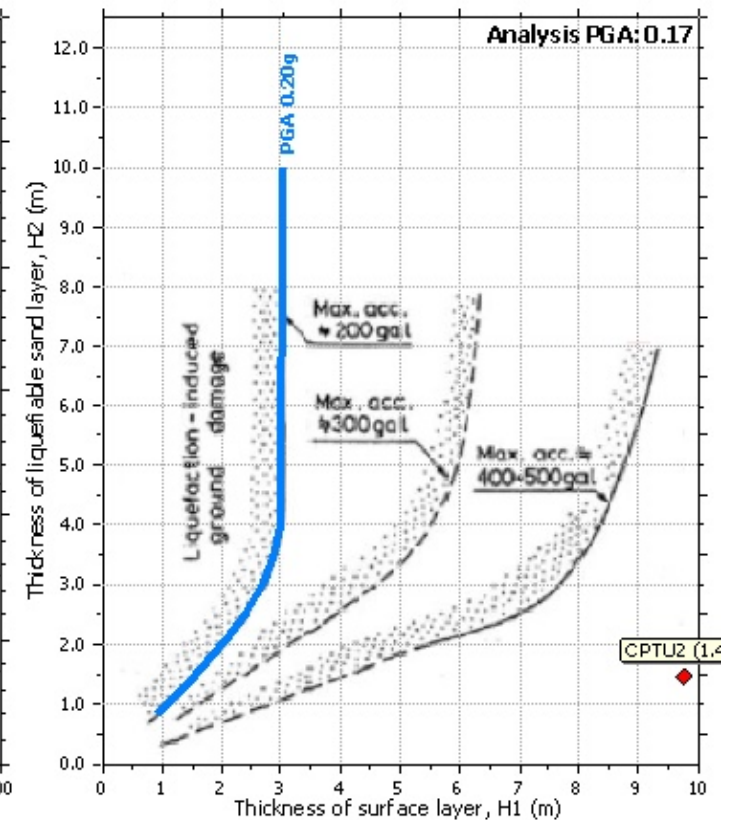
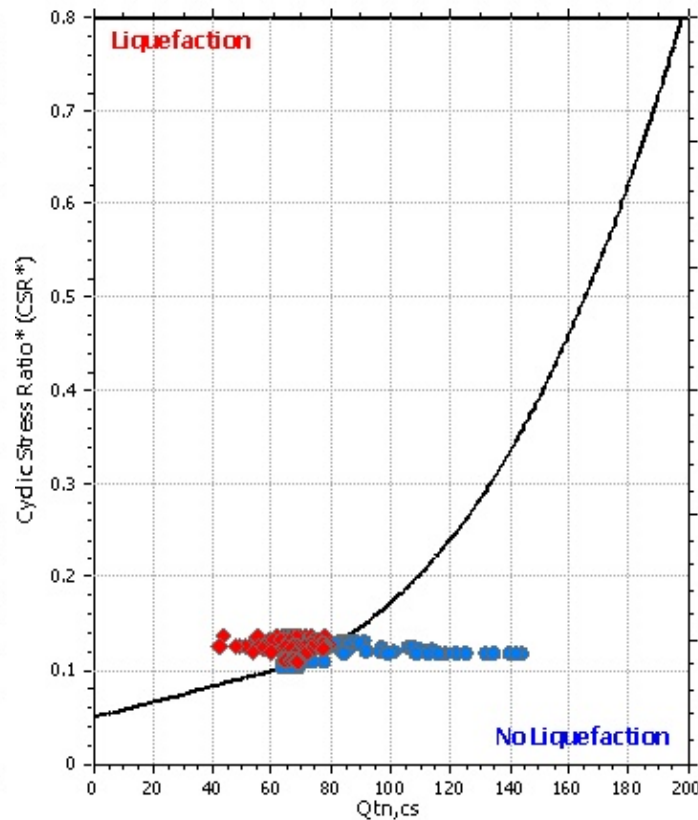
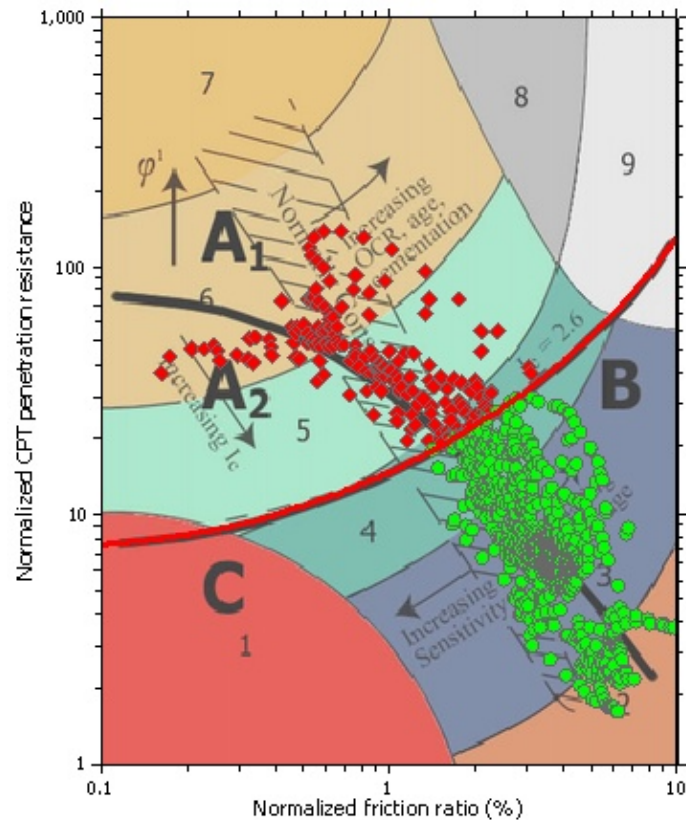
F.S. color scheme

| | |
|---|---|
| ■ | Almost certain it will liquefy |
| ■ | Very likely to liquefy |
| ■ | Liquefaction and no liq. are equally likely |
| ■ | Unlike to liquefy |
| ■ | Almost certain it will not liquefy |

LPI color scheme

| | |
|---------------------------------------|----------------|
| ■ | Very high risk |
| ■ | High risk |
| ■ | Low risk |

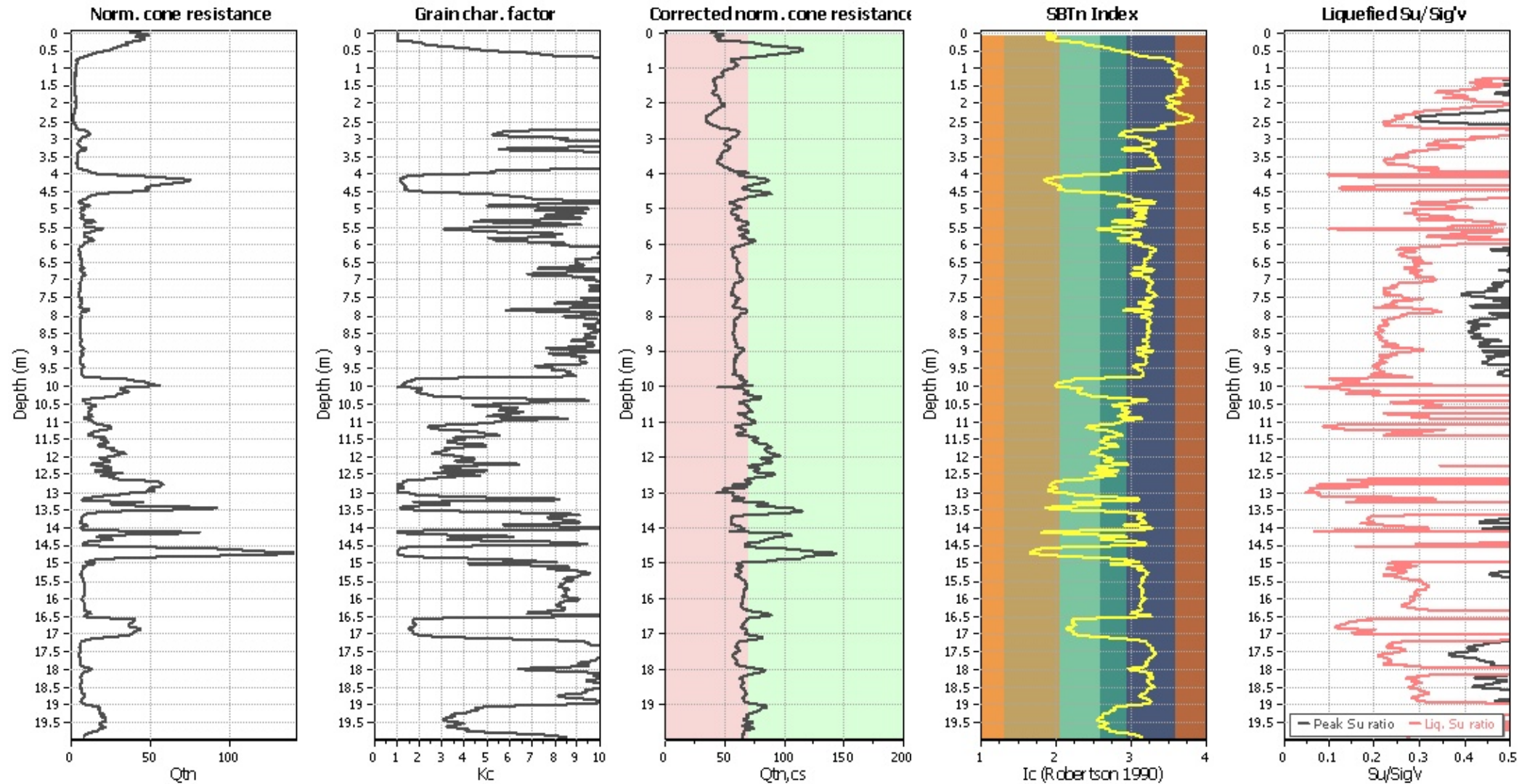
Liquefaction analysis summary plo



Input parameters and analysis data

| | | | | | |
|---------------------------------------|-------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K _g applied: | Yes |
| Earthquake magnitude M _w : | 6.14 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

Check for strength loss plots (Robertson (2010))



Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 6.14 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

| :: Liquefaction Potential Index calculation data :: | | | | | | | | | | | |
|---|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
| 0.02 | 2.00 | 0.00 | 9.99 | 0.02 | 0.00 | 0.04 | 2.00 | 0.00 | 9.98 | 0.02 | 0.00 |
| 0.06 | 2.00 | 0.00 | 9.97 | 0.02 | 0.00 | 0.08 | 2.00 | 0.00 | 9.96 | 0.02 | 0.00 |
| 0.10 | 2.00 | 0.00 | 9.95 | 0.02 | 0.00 | 0.12 | 2.00 | 0.00 | 9.94 | 0.02 | 0.00 |
| 0.14 | 2.00 | 0.00 | 9.93 | 0.02 | 0.00 | 0.16 | 2.00 | 0.00 | 9.92 | 0.02 | 0.00 |
| 0.18 | 2.00 | 0.00 | 9.91 | 0.02 | 0.00 | 0.20 | 2.00 | 0.00 | 9.90 | 0.02 | 0.00 |
| 0.22 | 2.00 | 0.00 | 9.89 | 0.02 | 0.00 | 0.24 | 2.00 | 0.00 | 9.88 | 0.02 | 0.00 |
| 0.26 | 2.00 | 0.00 | 9.87 | 0.02 | 0.00 | 0.28 | 2.00 | 0.00 | 9.86 | 0.02 | 0.00 |
| 0.30 | 2.00 | 0.00 | 9.85 | 0.02 | 0.00 | 0.32 | 2.00 | 0.00 | 9.84 | 0.02 | 0.00 |
| 0.34 | 2.00 | 0.00 | 9.83 | 0.02 | 0.00 | 0.36 | 2.00 | 0.00 | 9.82 | 0.02 | 0.00 |
| 0.38 | 2.00 | 0.00 | 9.81 | 0.02 | 0.00 | 0.40 | 2.00 | 0.00 | 9.80 | 0.02 | 0.00 |
| 0.42 | 2.00 | 0.00 | 9.79 | 0.02 | 0.00 | 0.44 | 2.00 | 0.00 | 9.78 | 0.02 | 0.00 |
| 0.46 | 2.00 | 0.00 | 9.77 | 0.02 | 0.00 | 0.48 | 2.00 | 0.00 | 9.76 | 0.02 | 0.00 |
| 0.50 | 2.00 | 0.00 | 9.75 | 0.02 | 0.00 | 0.52 | 2.00 | 0.00 | 9.74 | 0.02 | 0.00 |
| 0.54 | 2.00 | 0.00 | 9.73 | 0.02 | 0.00 | 0.56 | 2.00 | 0.00 | 9.72 | 0.02 | 0.00 |
| 0.58 | 2.00 | 0.00 | 9.71 | 0.02 | 0.00 | 0.60 | 2.00 | 0.00 | 9.70 | 0.02 | 0.00 |
| 0.62 | 2.00 | 0.00 | 9.69 | 0.02 | 0.00 | 0.64 | 2.00 | 0.00 | 9.68 | 0.02 | 0.00 |
| 0.66 | 2.00 | 0.00 | 9.67 | 0.02 | 0.00 | 0.68 | 2.00 | 0.00 | 9.66 | 0.02 | 0.00 |
| 0.70 | 2.00 | 0.00 | 9.65 | 0.02 | 0.00 | 0.72 | 2.00 | 0.00 | 9.64 | 0.02 | 0.00 |
| 0.74 | 2.00 | 0.00 | 9.63 | 0.02 | 0.00 | 0.76 | 2.00 | 0.00 | 9.62 | 0.02 | 0.00 |
| 0.78 | 2.00 | 0.00 | 9.61 | 0.02 | 0.00 | 0.80 | 2.00 | 0.00 | 9.60 | 0.02 | 0.00 |
| 0.82 | 2.00 | 0.00 | 9.59 | 0.02 | 0.00 | 0.84 | 2.00 | 0.00 | 9.58 | 0.02 | 0.00 |
| 0.86 | 2.00 | 0.00 | 9.57 | 0.02 | 0.00 | 0.88 | 2.00 | 0.00 | 9.56 | 0.02 | 0.00 |
| 0.90 | 2.00 | 0.00 | 9.55 | 0.02 | 0.00 | 0.92 | 2.00 | 0.00 | 9.54 | 0.02 | 0.00 |
| 0.94 | 2.00 | 0.00 | 9.53 | 0.02 | 0.00 | 0.96 | 2.00 | 0.00 | 9.52 | 0.02 | 0.00 |
| 0.98 | 2.00 | 0.00 | 9.51 | 0.02 | 0.00 | 1.00 | 2.00 | 0.00 | 9.50 | 0.02 | 0.00 |
| 1.02 | 2.00 | 0.00 | 9.49 | 0.02 | 0.00 | 1.04 | 2.00 | 0.00 | 9.48 | 0.02 | 0.00 |
| 1.06 | 2.00 | 0.00 | 9.47 | 0.02 | 0.00 | 1.08 | 2.00 | 0.00 | 9.46 | 0.02 | 0.00 |
| 1.10 | 2.00 | 0.00 | 9.45 | 0.02 | 0.00 | 1.12 | 2.00 | 0.00 | 9.44 | 0.02 | 0.00 |
| 1.14 | 2.00 | 0.00 | 9.43 | 0.02 | 0.00 | 1.16 | 2.00 | 0.00 | 9.42 | 0.02 | 0.00 |
| 1.18 | 2.00 | 0.00 | 9.41 | 0.02 | 0.00 | 1.20 | 2.00 | 0.00 | 9.40 | 0.02 | 0.00 |
| 1.22 | 2.00 | 0.00 | 9.39 | 0.02 | 0.00 | 1.24 | 2.00 | 0.00 | 9.38 | 0.02 | 0.00 |
| 1.26 | 2.00 | 0.00 | 9.37 | 0.02 | 0.00 | 1.28 | 2.00 | 0.00 | 9.36 | 0.02 | 0.00 |
| 1.30 | 2.00 | 0.00 | 9.35 | 0.02 | 0.00 | 1.32 | 2.00 | 0.00 | 9.34 | 0.02 | 0.00 |
| 1.34 | 2.00 | 0.00 | 9.33 | 0.02 | 0.00 | 1.36 | 2.00 | 0.00 | 9.32 | 0.02 | 0.00 |
| 1.38 | 2.00 | 0.00 | 9.31 | 0.02 | 0.00 | 1.40 | 2.00 | 0.00 | 9.30 | 0.02 | 0.00 |
| 1.42 | 2.00 | 0.00 | 9.29 | 0.02 | 0.00 | 1.44 | 2.00 | 0.00 | 9.28 | 0.02 | 0.00 |
| 1.46 | 2.00 | 0.00 | 9.27 | 0.02 | 0.00 | 1.48 | 2.00 | 0.00 | 9.26 | 0.02 | 0.00 |
| 1.50 | 2.00 | 0.00 | 9.25 | 0.02 | 0.00 | 1.52 | 2.00 | 0.00 | 9.24 | 0.02 | 0.00 |
| 1.54 | 2.00 | 0.00 | 9.23 | 0.02 | 0.00 | 1.56 | 2.00 | 0.00 | 9.22 | 0.02 | 0.00 |
| 1.58 | 2.00 | 0.00 | 9.21 | 0.02 | 0.00 | 1.60 | 2.00 | 0.00 | 9.20 | 0.02 | 0.00 |
| 1.62 | 2.00 | 0.00 | 9.19 | 0.02 | 0.00 | 1.64 | 2.00 | 0.00 | 9.18 | 0.02 | 0.00 |
| 1.66 | 2.00 | 0.00 | 9.17 | 0.02 | 0.00 | 1.68 | 2.00 | 0.00 | 9.16 | 0.02 | 0.00 |
| 1.70 | 2.00 | 0.00 | 9.15 | 0.02 | 0.00 | 1.72 | 2.00 | 0.00 | 9.14 | 0.02 | 0.00 |
| 1.74 | 2.00 | 0.00 | 9.13 | 0.02 | 0.00 | 1.76 | 2.00 | 0.00 | 9.12 | 0.02 | 0.00 |
| 1.78 | 2.00 | 0.00 | 9.11 | 0.02 | 0.00 | 1.80 | 2.00 | 0.00 | 9.10 | 0.02 | 0.00 |
| 1.82 | 2.00 | 0.00 | 9.09 | 0.02 | 0.00 | 1.84 | 2.00 | 0.00 | 9.08 | 0.02 | 0.00 |
| 1.86 | 2.00 | 0.00 | 9.07 | 0.02 | 0.00 | 1.88 | 2.00 | 0.00 | 9.06 | 0.02 | 0.00 |
| 1.90 | 2.00 | 0.00 | 9.05 | 0.02 | 0.00 | 1.92 | 2.00 | 0.00 | 9.04 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 1.94 | 2.00 | 0.00 | 9.03 | 0.02 | 0.00 | 1.96 | 2.00 | 0.00 | 9.02 | 0.02 | 0.00 |
| 1.98 | 2.00 | 0.00 | 9.01 | 0.02 | 0.00 | 2.00 | 2.00 | 0.00 | 9.00 | 0.02 | 0.00 |
| 2.02 | 2.00 | 0.00 | 8.99 | 0.02 | 0.00 | 2.04 | 2.00 | 0.00 | 8.98 | 0.02 | 0.00 |
| 2.06 | 2.00 | 0.00 | 8.97 | 0.02 | 0.00 | 2.08 | 2.00 | 0.00 | 8.96 | 0.02 | 0.00 |
| 2.10 | 2.00 | 0.00 | 8.95 | 0.02 | 0.00 | 2.12 | 2.00 | 0.00 | 8.94 | 0.02 | 0.00 |
| 2.14 | 2.00 | 0.00 | 8.93 | 0.02 | 0.00 | 2.16 | 2.00 | 0.00 | 8.92 | 0.02 | 0.00 |
| 2.18 | 2.00 | 0.00 | 8.91 | 0.02 | 0.00 | 2.20 | 2.00 | 0.00 | 8.90 | 0.02 | 0.00 |
| 2.22 | 2.00 | 0.00 | 8.89 | 0.02 | 0.00 | 2.24 | 2.00 | 0.00 | 8.88 | 0.02 | 0.00 |
| 2.26 | 2.00 | 0.00 | 8.87 | 0.02 | 0.00 | 2.28 | 2.00 | 0.00 | 8.86 | 0.02 | 0.00 |
| 2.30 | 2.00 | 0.00 | 8.85 | 0.02 | 0.00 | 2.32 | 2.00 | 0.00 | 8.84 | 0.02 | 0.00 |
| 2.34 | 2.00 | 0.00 | 8.83 | 0.02 | 0.00 | 2.36 | 2.00 | 0.00 | 8.82 | 0.02 | 0.00 |
| 2.38 | 2.00 | 0.00 | 8.81 | 0.02 | 0.00 | 2.40 | 2.00 | 0.00 | 8.80 | 0.02 | 0.00 |
| 2.42 | 2.00 | 0.00 | 8.79 | 0.02 | 0.00 | 2.44 | 2.00 | 0.00 | 8.78 | 0.02 | 0.00 |
| 2.46 | 2.00 | 0.00 | 8.77 | 0.02 | 0.00 | 2.48 | 2.00 | 0.00 | 8.76 | 0.02 | 0.00 |
| 2.50 | 2.00 | 0.00 | 8.75 | 0.02 | 0.00 | 2.52 | 2.00 | 0.00 | 8.74 | 0.02 | 0.00 |
| 2.54 | 2.00 | 0.00 | 8.73 | 0.02 | 0.00 | 2.56 | 2.00 | 0.00 | 8.72 | 0.02 | 0.00 |
| 2.58 | 2.00 | 0.00 | 8.71 | 0.02 | 0.00 | 2.60 | 2.00 | 0.00 | 8.70 | 0.02 | 0.00 |
| 2.62 | 2.00 | 0.00 | 8.69 | 0.02 | 0.00 | 2.64 | 2.00 | 0.00 | 8.68 | 0.02 | 0.00 |
| 2.66 | 2.00 | 0.00 | 8.67 | 0.02 | 0.00 | 2.68 | 2.00 | 0.00 | 8.66 | 0.02 | 0.00 |
| 2.70 | 2.00 | 0.00 | 8.65 | 0.02 | 0.00 | 2.72 | 2.00 | 0.00 | 8.64 | 0.02 | 0.00 |
| 2.74 | 2.00 | 0.00 | 8.63 | 0.02 | 0.00 | 2.76 | 2.00 | 0.00 | 8.62 | 0.02 | 0.00 |
| 2.78 | 2.00 | 0.00 | 8.61 | 0.02 | 0.00 | 2.80 | 2.00 | 0.00 | 8.60 | 0.02 | 0.00 |
| 2.82 | 2.00 | 0.00 | 8.59 | 0.02 | 0.00 | 2.84 | 2.00 | 0.00 | 8.58 | 0.02 | 0.00 |
| 2.86 | 2.00 | 0.00 | 8.57 | 0.02 | 0.00 | 2.88 | 2.00 | 0.00 | 8.56 | 0.02 | 0.00 |
| 2.90 | 2.00 | 0.00 | 8.55 | 0.02 | 0.00 | 2.92 | 2.00 | 0.00 | 8.54 | 0.02 | 0.00 |
| 2.94 | 2.00 | 0.00 | 8.53 | 0.02 | 0.00 | 2.96 | 2.00 | 0.00 | 8.52 | 0.02 | 0.00 |
| 2.98 | 2.00 | 0.00 | 8.51 | 0.02 | 0.00 | 3.00 | 2.00 | 0.00 | 8.50 | 0.02 | 0.00 |
| 3.02 | 2.00 | 0.00 | 8.49 | 0.02 | 0.00 | 3.04 | 2.00 | 0.00 | 8.48 | 0.02 | 0.00 |
| 3.06 | 2.00 | 0.00 | 8.47 | 0.02 | 0.00 | 3.08 | 2.00 | 0.00 | 8.46 | 0.02 | 0.00 |
| 3.10 | 2.00 | 0.00 | 8.45 | 0.02 | 0.00 | 3.12 | 2.00 | 0.00 | 8.44 | 0.02 | 0.00 |
| 3.14 | 2.00 | 0.00 | 8.43 | 0.02 | 0.00 | 3.16 | 2.00 | 0.00 | 8.42 | 0.02 | 0.00 |
| 3.18 | 2.00 | 0.00 | 8.41 | 0.02 | 0.00 | 3.20 | 2.00 | 0.00 | 8.40 | 0.02 | 0.00 |
| 3.22 | 2.00 | 0.00 | 8.39 | 0.02 | 0.00 | 3.24 | 2.00 | 0.00 | 8.38 | 0.02 | 0.00 |
| 3.26 | 2.00 | 0.00 | 8.37 | 0.02 | 0.00 | 3.28 | 2.00 | 0.00 | 8.36 | 0.02 | 0.00 |
| 3.30 | 2.00 | 0.00 | 8.35 | 0.02 | 0.00 | 3.32 | 2.00 | 0.00 | 8.34 | 0.02 | 0.00 |
| 3.34 | 2.00 | 0.00 | 8.33 | 0.02 | 0.00 | 3.36 | 2.00 | 0.00 | 8.32 | 0.02 | 0.00 |
| 3.38 | 2.00 | 0.00 | 8.31 | 0.02 | 0.00 | 3.40 | 2.00 | 0.00 | 8.30 | 0.02 | 0.00 |
| 3.42 | 2.00 | 0.00 | 8.29 | 0.02 | 0.00 | 3.44 | 2.00 | 0.00 | 8.28 | 0.02 | 0.00 |
| 3.46 | 2.00 | 0.00 | 8.27 | 0.02 | 0.00 | 3.48 | 2.00 | 0.00 | 8.26 | 0.02 | 0.00 |
| 3.50 | 2.00 | 0.00 | 8.25 | 0.02 | 0.00 | 3.52 | 2.00 | 0.00 | 8.24 | 0.02 | 0.00 |
| 3.54 | 2.00 | 0.00 | 8.23 | 0.02 | 0.00 | 3.56 | 2.00 | 0.00 | 8.22 | 0.02 | 0.00 |
| 3.58 | 2.00 | 0.00 | 8.21 | 0.02 | 0.00 | 3.60 | 2.00 | 0.00 | 8.20 | 0.02 | 0.00 |
| 3.62 | 2.00 | 0.00 | 8.19 | 0.02 | 0.00 | 3.64 | 2.00 | 0.00 | 8.18 | 0.02 | 0.00 |
| 3.66 | 2.00 | 0.00 | 8.17 | 0.02 | 0.00 | 3.68 | 2.00 | 0.00 | 8.16 | 0.02 | 0.00 |
| 3.70 | 2.00 | 0.00 | 8.15 | 0.02 | 0.00 | 3.72 | 2.00 | 0.00 | 8.14 | 0.02 | 0.00 |
| 3.74 | 2.00 | 0.00 | 8.13 | 0.02 | 0.00 | 3.76 | 2.00 | 0.00 | 8.12 | 0.02 | 0.00 |
| 3.78 | 2.00 | 0.00 | 8.11 | 0.02 | 0.00 | 3.80 | 2.00 | 0.00 | 8.10 | 0.02 | 0.00 |
| 3.82 | 2.00 | 0.00 | 8.09 | 0.02 | 0.00 | 3.84 | 2.00 | 0.00 | 8.08 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 3.86 | 2.00 | 0.00 | 8.07 | 0.02 | 0.00 | 3.88 | 2.00 | 0.00 | 8.06 | 0.02 | 0.00 |
| 3.90 | 2.00 | 0.00 | 8.05 | 0.02 | 0.00 | 3.92 | 2.00 | 0.00 | 8.04 | 0.02 | 0.00 |
| 3.94 | 2.00 | 0.00 | 8.03 | 0.02 | 0.00 | 3.96 | 2.00 | 0.00 | 8.02 | 0.02 | 0.00 |
| 3.98 | 2.00 | 0.00 | 8.01 | 0.02 | 0.00 | 4.00 | 0.82 | 0.18 | 8.00 | 0.02 | 0.03 |
| 4.02 | 0.82 | 0.18 | 7.99 | 0.02 | 0.03 | 4.04 | 0.85 | 0.15 | 7.98 | 0.02 | 0.02 |
| 4.06 | 0.89 | 0.11 | 7.97 | 0.02 | 0.02 | 4.08 | 0.95 | 0.05 | 7.96 | 0.02 | 0.01 |
| 4.10 | 1.00 | 0.00 | 7.95 | 0.02 | 0.00 | 4.12 | 1.07 | 0.00 | 7.94 | 0.02 | 0.00 |
| 4.14 | 1.09 | 0.00 | 7.93 | 0.02 | 0.00 | 4.16 | 1.10 | 0.00 | 7.92 | 0.02 | 0.00 |
| 4.18 | 1.12 | 0.00 | 7.91 | 0.02 | 0.00 | 4.20 | 1.12 | 0.00 | 7.90 | 0.02 | 0.00 |
| 4.22 | 1.10 | 0.00 | 7.89 | 0.02 | 0.00 | 4.24 | 1.06 | 0.00 | 7.88 | 0.02 | 0.00 |
| 4.26 | 1.02 | 0.00 | 7.87 | 0.02 | 0.00 | 4.28 | 0.98 | 0.02 | 7.86 | 0.02 | 0.00 |
| 4.30 | 0.94 | 0.06 | 7.85 | 0.02 | 0.01 | 4.32 | 0.91 | 0.09 | 7.84 | 0.02 | 0.01 |
| 4.34 | 0.88 | 0.12 | 7.83 | 0.02 | 0.02 | 4.36 | 0.87 | 0.13 | 7.82 | 0.02 | 0.02 |
| 4.38 | 0.85 | 0.15 | 7.81 | 0.02 | 0.02 | 4.40 | 0.84 | 0.16 | 7.80 | 0.02 | 0.03 |
| 4.42 | 0.84 | 0.16 | 7.79 | 0.02 | 0.03 | 4.44 | 0.85 | 0.15 | 7.78 | 0.02 | 0.02 |
| 4.46 | 0.89 | 0.11 | 7.77 | 0.02 | 0.02 | 4.48 | 0.94 | 0.06 | 7.76 | 0.02 | 0.01 |
| 4.50 | 1.00 | 0.00 | 7.75 | 0.02 | 0.00 | 4.52 | 1.07 | 0.00 | 7.74 | 0.02 | 0.00 |
| 4.54 | 2.00 | 0.00 | 7.73 | 0.02 | 0.00 | 4.56 | 2.00 | 0.00 | 7.72 | 0.02 | 0.00 |
| 4.58 | 2.00 | 0.00 | 7.71 | 0.02 | 0.00 | 4.60 | 2.00 | 0.00 | 7.70 | 0.02 | 0.00 |
| 4.62 | 2.00 | 0.00 | 7.69 | 0.02 | 0.00 | 4.64 | 2.00 | 0.00 | 7.68 | 0.02 | 0.00 |
| 4.66 | 2.00 | 0.00 | 7.67 | 0.02 | 0.00 | 4.68 | 2.00 | 0.00 | 7.66 | 0.02 | 0.00 |
| 4.70 | 2.00 | 0.00 | 7.65 | 0.02 | 0.00 | 4.72 | 2.00 | 0.00 | 7.64 | 0.02 | 0.00 |
| 4.74 | 2.00 | 0.00 | 7.63 | 0.02 | 0.00 | 4.76 | 2.00 | 0.00 | 7.62 | 0.02 | 0.00 |
| 4.78 | 2.00 | 0.00 | 7.61 | 0.02 | 0.00 | 4.80 | 2.00 | 0.00 | 7.60 | 0.02 | 0.00 |
| 4.82 | 2.00 | 0.00 | 7.59 | 0.02 | 0.00 | 4.84 | 2.00 | 0.00 | 7.58 | 0.02 | 0.00 |
| 4.86 | 2.00 | 0.00 | 7.57 | 0.02 | 0.00 | 4.88 | 2.00 | 0.00 | 7.56 | 0.02 | 0.00 |
| 4.90 | 2.00 | 0.00 | 7.55 | 0.02 | 0.00 | 4.92 | 2.00 | 0.00 | 7.54 | 0.02 | 0.00 |
| 4.94 | 2.00 | 0.00 | 7.53 | 0.02 | 0.00 | 4.96 | 2.00 | 0.00 | 7.52 | 0.02 | 0.00 |
| 4.98 | 2.00 | 0.00 | 7.51 | 0.02 | 0.00 | 5.00 | 2.00 | 0.00 | 7.50 | 0.02 | 0.00 |
| 5.02 | 2.00 | 0.00 | 7.49 | 0.02 | 0.00 | 5.04 | 2.00 | 0.00 | 7.48 | 0.02 | 0.00 |
| 5.06 | 2.00 | 0.00 | 7.47 | 0.02 | 0.00 | 5.08 | 2.00 | 0.00 | 7.46 | 0.02 | 0.00 |
| 5.10 | 2.00 | 0.00 | 7.45 | 0.02 | 0.00 | 5.12 | 2.00 | 0.00 | 7.44 | 0.02 | 0.00 |
| 5.14 | 2.00 | 0.00 | 7.43 | 0.02 | 0.00 | 5.16 | 2.00 | 0.00 | 7.42 | 0.02 | 0.00 |
| 5.18 | 2.00 | 0.00 | 7.41 | 0.02 | 0.00 | 5.20 | 2.00 | 0.00 | 7.40 | 0.02 | 0.00 |
| 5.22 | 2.00 | 0.00 | 7.39 | 0.02 | 0.00 | 5.24 | 2.00 | 0.00 | 7.38 | 0.02 | 0.00 |
| 5.26 | 2.00 | 0.00 | 7.37 | 0.02 | 0.00 | 5.28 | 2.00 | 0.00 | 7.36 | 0.02 | 0.00 |
| 5.30 | 2.00 | 0.00 | 7.35 | 0.02 | 0.00 | 5.32 | 2.00 | 0.00 | 7.34 | 0.02 | 0.00 |
| 5.34 | 2.00 | 0.00 | 7.33 | 0.02 | 0.00 | 5.36 | 2.00 | 0.00 | 7.32 | 0.02 | 0.00 |
| 5.38 | 2.00 | 0.00 | 7.31 | 0.02 | 0.00 | 5.40 | 2.00 | 0.00 | 7.30 | 0.02 | 0.00 |
| 5.42 | 2.00 | 0.00 | 7.29 | 0.02 | 0.00 | 5.44 | 2.00 | 0.00 | 7.28 | 0.02 | 0.00 |
| 5.46 | 2.00 | 0.00 | 7.27 | 0.02 | 0.00 | 5.48 | 2.00 | 0.00 | 7.26 | 0.02 | 0.00 |
| 5.50 | 2.00 | 0.00 | 7.25 | 0.02 | 0.00 | 5.52 | 2.00 | 0.00 | 7.24 | 0.02 | 0.00 |
| 5.54 | 2.00 | 0.00 | 7.23 | 0.02 | 0.00 | 5.56 | 0.77 | 0.23 | 7.22 | 0.02 | 0.03 |
| 5.58 | 2.00 | 0.00 | 7.21 | 0.02 | 0.00 | 5.60 | 2.00 | 0.00 | 7.20 | 0.02 | 0.00 |
| 5.62 | 2.00 | 0.00 | 7.19 | 0.02 | 0.00 | 5.64 | 2.00 | 0.00 | 7.18 | 0.02 | 0.00 |
| 5.66 | 2.00 | 0.00 | 7.17 | 0.02 | 0.00 | 5.68 | 2.00 | 0.00 | 7.16 | 0.02 | 0.00 |
| 5.70 | 2.00 | 0.00 | 7.15 | 0.02 | 0.00 | 5.72 | 2.00 | 0.00 | 7.14 | 0.02 | 0.00 |
| 5.74 | 2.00 | 0.00 | 7.13 | 0.02 | 0.00 | 5.76 | 2.00 | 0.00 | 7.12 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 5.78 | 2.00 | 0.00 | 7.11 | 0.02 | 0.00 | 5.80 | 2.00 | 0.00 | 7.10 | 0.02 | 0.00 |
| 5.82 | 2.00 | 0.00 | 7.09 | 0.02 | 0.00 | 5.84 | 2.00 | 0.00 | 7.08 | 0.02 | 0.00 |
| 5.86 | 2.00 | 0.00 | 7.07 | 0.02 | 0.00 | 5.88 | 2.00 | 0.00 | 7.06 | 0.02 | 0.00 |
| 5.90 | 2.00 | 0.00 | 7.05 | 0.02 | 0.00 | 5.92 | 2.00 | 0.00 | 7.04 | 0.02 | 0.00 |
| 5.94 | 2.00 | 0.00 | 7.03 | 0.02 | 0.00 | 5.96 | 2.00 | 0.00 | 7.02 | 0.02 | 0.00 |
| 5.98 | 2.00 | 0.00 | 7.01 | 0.02 | 0.00 | 6.00 | 2.00 | 0.00 | 7.00 | 0.02 | 0.00 |
| 6.02 | 2.00 | 0.00 | 6.99 | 0.02 | 0.00 | 6.04 | 2.00 | 0.00 | 6.98 | 0.02 | 0.00 |
| 6.06 | 2.00 | 0.00 | 6.97 | 0.02 | 0.00 | 6.08 | 2.00 | 0.00 | 6.96 | 0.02 | 0.00 |
| 6.10 | 2.00 | 0.00 | 6.95 | 0.02 | 0.00 | 6.12 | 2.00 | 0.00 | 6.94 | 0.02 | 0.00 |
| 6.14 | 2.00 | 0.00 | 6.93 | 0.02 | 0.00 | 6.16 | 2.00 | 0.00 | 6.92 | 0.02 | 0.00 |
| 6.18 | 2.00 | 0.00 | 6.91 | 0.02 | 0.00 | 6.20 | 2.00 | 0.00 | 6.90 | 0.02 | 0.00 |
| 6.22 | 2.00 | 0.00 | 6.89 | 0.02 | 0.00 | 6.24 | 2.00 | 0.00 | 6.88 | 0.02 | 0.00 |
| 6.26 | 2.00 | 0.00 | 6.87 | 0.02 | 0.00 | 6.28 | 2.00 | 0.00 | 6.86 | 0.02 | 0.00 |
| 6.30 | 2.00 | 0.00 | 6.85 | 0.02 | 0.00 | 6.32 | 2.00 | 0.00 | 6.84 | 0.02 | 0.00 |
| 6.34 | 2.00 | 0.00 | 6.83 | 0.02 | 0.00 | 6.36 | 2.00 | 0.00 | 6.82 | 0.02 | 0.00 |
| 6.38 | 2.00 | 0.00 | 6.81 | 0.02 | 0.00 | 6.40 | 2.00 | 0.00 | 6.80 | 0.02 | 0.00 |
| 6.42 | 2.00 | 0.00 | 6.79 | 0.02 | 0.00 | 6.44 | 2.00 | 0.00 | 6.78 | 0.02 | 0.00 |
| 6.46 | 2.00 | 0.00 | 6.77 | 0.02 | 0.00 | 6.48 | 2.00 | 0.00 | 6.76 | 0.02 | 0.00 |
| 6.50 | 2.00 | 0.00 | 6.75 | 0.02 | 0.00 | 6.52 | 2.00 | 0.00 | 6.74 | 0.02 | 0.00 |
| 6.54 | 2.00 | 0.00 | 6.73 | 0.02 | 0.00 | 6.56 | 2.00 | 0.00 | 6.72 | 0.02 | 0.00 |
| 6.58 | 2.00 | 0.00 | 6.71 | 0.02 | 0.00 | 6.60 | 2.00 | 0.00 | 6.70 | 0.02 | 0.00 |
| 6.62 | 2.00 | 0.00 | 6.69 | 0.02 | 0.00 | 6.64 | 2.00 | 0.00 | 6.68 | 0.02 | 0.00 |
| 6.66 | 2.00 | 0.00 | 6.67 | 0.02 | 0.00 | 6.68 | 2.00 | 0.00 | 6.66 | 0.02 | 0.00 |
| 6.70 | 2.00 | 0.00 | 6.65 | 0.02 | 0.00 | 6.72 | 2.00 | 0.00 | 6.64 | 0.02 | 0.00 |
| 6.74 | 2.00 | 0.00 | 6.63 | 0.02 | 0.00 | 6.76 | 2.00 | 0.00 | 6.62 | 0.02 | 0.00 |
| 6.78 | 2.00 | 0.00 | 6.61 | 0.02 | 0.00 | 6.80 | 2.00 | 0.00 | 6.60 | 0.02 | 0.00 |
| 6.82 | 2.00 | 0.00 | 6.59 | 0.02 | 0.00 | 6.84 | 2.00 | 0.00 | 6.58 | 0.02 | 0.00 |
| 6.86 | 2.00 | 0.00 | 6.57 | 0.02 | 0.00 | 6.88 | 2.00 | 0.00 | 6.56 | 0.02 | 0.00 |
| 6.90 | 2.00 | 0.00 | 6.55 | 0.02 | 0.00 | 6.92 | 2.00 | 0.00 | 6.54 | 0.02 | 0.00 |
| 6.94 | 2.00 | 0.00 | 6.53 | 0.02 | 0.00 | 6.96 | 2.00 | 0.00 | 6.52 | 0.02 | 0.00 |
| 6.98 | 2.00 | 0.00 | 6.51 | 0.02 | 0.00 | 7.00 | 2.00 | 0.00 | 6.50 | 0.02 | 0.00 |
| 7.02 | 2.00 | 0.00 | 6.49 | 0.02 | 0.00 | 7.04 | 2.00 | 0.00 | 6.48 | 0.02 | 0.00 |
| 7.06 | 2.00 | 0.00 | 6.47 | 0.02 | 0.00 | 7.08 | 2.00 | 0.00 | 6.46 | 0.02 | 0.00 |
| 7.10 | 2.00 | 0.00 | 6.45 | 0.02 | 0.00 | 7.12 | 2.00 | 0.00 | 6.44 | 0.02 | 0.00 |
| 7.14 | 2.00 | 0.00 | 6.43 | 0.02 | 0.00 | 7.16 | 2.00 | 0.00 | 6.42 | 0.02 | 0.00 |
| 7.18 | 2.00 | 0.00 | 6.41 | 0.02 | 0.00 | 7.20 | 2.00 | 0.00 | 6.40 | 0.02 | 0.00 |
| 7.22 | 2.00 | 0.00 | 6.39 | 0.02 | 0.00 | 7.24 | 2.00 | 0.00 | 6.38 | 0.02 | 0.00 |
| 7.26 | 2.00 | 0.00 | 6.37 | 0.02 | 0.00 | 7.28 | 2.00 | 0.00 | 6.36 | 0.02 | 0.00 |
| 7.30 | 2.00 | 0.00 | 6.35 | 0.02 | 0.00 | 7.32 | 2.00 | 0.00 | 6.34 | 0.02 | 0.00 |
| 7.34 | 2.00 | 0.00 | 6.33 | 0.02 | 0.00 | 7.36 | 2.00 | 0.00 | 6.32 | 0.02 | 0.00 |
| 7.38 | 2.00 | 0.00 | 6.31 | 0.02 | 0.00 | 7.40 | 2.00 | 0.00 | 6.30 | 0.02 | 0.00 |
| 7.42 | 2.00 | 0.00 | 6.29 | 0.02 | 0.00 | 7.44 | 2.00 | 0.00 | 6.28 | 0.02 | 0.00 |
| 7.46 | 2.00 | 0.00 | 6.27 | 0.02 | 0.00 | 7.48 | 2.00 | 0.00 | 6.26 | 0.02 | 0.00 |
| 7.50 | 2.00 | 0.00 | 6.25 | 0.02 | 0.00 | 7.52 | 2.00 | 0.00 | 6.24 | 0.02 | 0.00 |
| 7.54 | 2.00 | 0.00 | 6.23 | 0.02 | 0.00 | 7.56 | 2.00 | 0.00 | 6.22 | 0.02 | 0.00 |
| 7.58 | 2.00 | 0.00 | 6.21 | 0.02 | 0.00 | 7.60 | 2.00 | 0.00 | 6.20 | 0.02 | 0.00 |
| 7.62 | 2.00 | 0.00 | 6.19 | 0.02 | 0.00 | 7.64 | 2.00 | 0.00 | 6.18 | 0.02 | 0.00 |
| 7.66 | 2.00 | 0.00 | 6.17 | 0.02 | 0.00 | 7.68 | 2.00 | 0.00 | 6.16 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 7.70 | 2.00 | 0.00 | 6.15 | 0.02 | 0.00 | 7.72 | 2.00 | 0.00 | 6.14 | 0.02 | 0.00 |
| 7.74 | 2.00 | 0.00 | 6.13 | 0.02 | 0.00 | 7.76 | 2.00 | 0.00 | 6.12 | 0.02 | 0.00 |
| 7.78 | 2.00 | 0.00 | 6.11 | 0.02 | 0.00 | 7.80 | 2.00 | 0.00 | 6.10 | 0.02 | 0.00 |
| 7.82 | 2.00 | 0.00 | 6.09 | 0.02 | 0.00 | 7.84 | 2.00 | 0.00 | 6.08 | 0.02 | 0.00 |
| 7.86 | 2.00 | 0.00 | 6.07 | 0.02 | 0.00 | 7.88 | 2.00 | 0.00 | 6.06 | 0.02 | 0.00 |
| 7.90 | 2.00 | 0.00 | 6.05 | 0.02 | 0.00 | 7.92 | 2.00 | 0.00 | 6.04 | 0.02 | 0.00 |
| 7.94 | 2.00 | 0.00 | 6.03 | 0.02 | 0.00 | 7.96 | 2.00 | 0.00 | 6.02 | 0.02 | 0.00 |
| 7.98 | 2.00 | 0.00 | 6.01 | 0.02 | 0.00 | 8.00 | 2.00 | 0.00 | 6.00 | 0.02 | 0.00 |
| 8.02 | 2.00 | 0.00 | 5.99 | 0.02 | 0.00 | 8.04 | 2.00 | 0.00 | 5.98 | 0.02 | 0.00 |
| 8.06 | 2.00 | 0.00 | 5.97 | 0.02 | 0.00 | 8.08 | 2.00 | 0.00 | 5.96 | 0.02 | 0.00 |
| 8.10 | 2.00 | 0.00 | 5.95 | 0.02 | 0.00 | 8.12 | 2.00 | 0.00 | 5.94 | 0.02 | 0.00 |
| 8.14 | 2.00 | 0.00 | 5.93 | 0.02 | 0.00 | 8.16 | 2.00 | 0.00 | 5.92 | 0.02 | 0.00 |
| 8.18 | 2.00 | 0.00 | 5.91 | 0.02 | 0.00 | 8.20 | 2.00 | 0.00 | 5.90 | 0.02 | 0.00 |
| 8.22 | 2.00 | 0.00 | 5.89 | 0.02 | 0.00 | 8.24 | 2.00 | 0.00 | 5.88 | 0.02 | 0.00 |
| 8.26 | 2.00 | 0.00 | 5.87 | 0.02 | 0.00 | 8.28 | 2.00 | 0.00 | 5.86 | 0.02 | 0.00 |
| 8.30 | 2.00 | 0.00 | 5.85 | 0.02 | 0.00 | 8.32 | 2.00 | 0.00 | 5.84 | 0.02 | 0.00 |
| 8.34 | 2.00 | 0.00 | 5.83 | 0.02 | 0.00 | 8.36 | 2.00 | 0.00 | 5.82 | 0.02 | 0.00 |
| 8.38 | 2.00 | 0.00 | 5.81 | 0.02 | 0.00 | 8.40 | 2.00 | 0.00 | 5.80 | 0.02 | 0.00 |
| 8.42 | 2.00 | 0.00 | 5.79 | 0.02 | 0.00 | 8.44 | 2.00 | 0.00 | 5.78 | 0.02 | 0.00 |
| 8.46 | 2.00 | 0.00 | 5.77 | 0.02 | 0.00 | 8.48 | 2.00 | 0.00 | 5.76 | 0.02 | 0.00 |
| 8.50 | 2.00 | 0.00 | 5.75 | 0.02 | 0.00 | 8.52 | 2.00 | 0.00 | 5.74 | 0.02 | 0.00 |
| 8.54 | 2.00 | 0.00 | 5.73 | 0.02 | 0.00 | 8.56 | 2.00 | 0.00 | 5.72 | 0.02 | 0.00 |
| 8.58 | 2.00 | 0.00 | 5.71 | 0.02 | 0.00 | 8.60 | 2.00 | 0.00 | 5.70 | 0.02 | 0.00 |
| 8.62 | 2.00 | 0.00 | 5.69 | 0.02 | 0.00 | 8.64 | 2.00 | 0.00 | 5.68 | 0.02 | 0.00 |
| 8.66 | 2.00 | 0.00 | 5.67 | 0.02 | 0.00 | 8.68 | 2.00 | 0.00 | 5.66 | 0.02 | 0.00 |
| 8.70 | 2.00 | 0.00 | 5.65 | 0.02 | 0.00 | 8.72 | 2.00 | 0.00 | 5.64 | 0.02 | 0.00 |
| 8.74 | 2.00 | 0.00 | 5.63 | 0.02 | 0.00 | 8.76 | 2.00 | 0.00 | 5.62 | 0.02 | 0.00 |
| 8.78 | 2.00 | 0.00 | 5.61 | 0.02 | 0.00 | 8.80 | 2.00 | 0.00 | 5.60 | 0.02 | 0.00 |
| 8.82 | 2.00 | 0.00 | 5.59 | 0.02 | 0.00 | 8.84 | 2.00 | 0.00 | 5.58 | 0.02 | 0.00 |
| 8.86 | 2.00 | 0.00 | 5.57 | 0.02 | 0.00 | 8.88 | 2.00 | 0.00 | 5.56 | 0.02 | 0.00 |
| 8.90 | 2.00 | 0.00 | 5.55 | 0.02 | 0.00 | 8.92 | 2.00 | 0.00 | 5.54 | 0.02 | 0.00 |
| 8.94 | 2.00 | 0.00 | 5.53 | 0.02 | 0.00 | 8.96 | 2.00 | 0.00 | 5.52 | 0.02 | 0.00 |
| 8.98 | 2.00 | 0.00 | 5.51 | 0.02 | 0.00 | 9.00 | 2.00 | 0.00 | 5.50 | 0.02 | 0.00 |
| 9.02 | 2.00 | 0.00 | 5.49 | 0.02 | 0.00 | 9.04 | 2.00 | 0.00 | 5.48 | 0.02 | 0.00 |
| 9.06 | 2.00 | 0.00 | 5.47 | 0.02 | 0.00 | 9.08 | 2.00 | 0.00 | 5.46 | 0.02 | 0.00 |
| 9.10 | 2.00 | 0.00 | 5.45 | 0.02 | 0.00 | 9.12 | 2.00 | 0.00 | 5.44 | 0.02 | 0.00 |
| 9.14 | 2.00 | 0.00 | 5.43 | 0.02 | 0.00 | 9.16 | 2.00 | 0.00 | 5.42 | 0.02 | 0.00 |
| 9.18 | 2.00 | 0.00 | 5.41 | 0.02 | 0.00 | 9.20 | 2.00 | 0.00 | 5.40 | 0.02 | 0.00 |
| 9.22 | 2.00 | 0.00 | 5.39 | 0.02 | 0.00 | 9.24 | 2.00 | 0.00 | 5.38 | 0.02 | 0.00 |
| 9.26 | 2.00 | 0.00 | 5.37 | 0.02 | 0.00 | 9.28 | 2.00 | 0.00 | 5.36 | 0.02 | 0.00 |
| 9.30 | 2.00 | 0.00 | 5.35 | 0.02 | 0.00 | 9.32 | 2.00 | 0.00 | 5.34 | 0.02 | 0.00 |
| 9.34 | 2.00 | 0.00 | 5.33 | 0.02 | 0.00 | 9.36 | 2.00 | 0.00 | 5.32 | 0.02 | 0.00 |
| 9.38 | 2.00 | 0.00 | 5.31 | 0.02 | 0.00 | 9.40 | 2.00 | 0.00 | 5.30 | 0.02 | 0.00 |
| 9.42 | 2.00 | 0.00 | 5.29 | 0.02 | 0.00 | 9.44 | 2.00 | 0.00 | 5.28 | 0.02 | 0.00 |
| 9.46 | 2.00 | 0.00 | 5.27 | 0.02 | 0.00 | 9.48 | 2.00 | 0.00 | 5.26 | 0.02 | 0.00 |
| 9.50 | 2.00 | 0.00 | 5.25 | 0.02 | 0.00 | 9.52 | 2.00 | 0.00 | 5.24 | 0.02 | 0.00 |
| 9.54 | 2.00 | 0.00 | 5.23 | 0.02 | 0.00 | 9.56 | 2.00 | 0.00 | 5.22 | 0.02 | 0.00 |
| 9.58 | 2.00 | 0.00 | 5.21 | 0.02 | 0.00 | 9.60 | 2.00 | 0.00 | 5.20 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 9.62 | 2.00 | 0.00 | 5.19 | 0.02 | 0.00 | 9.64 | 2.00 | 0.00 | 5.18 | 0.02 | 0.00 |
| 9.66 | 2.00 | 0.00 | 5.17 | 0.02 | 0.00 | 9.68 | 2.00 | 0.00 | 5.16 | 0.02 | 0.00 |
| 9.70 | 2.00 | 0.00 | 5.15 | 0.02 | 0.00 | 9.72 | 2.00 | 0.00 | 5.14 | 0.02 | 0.00 |
| 9.74 | 2.00 | 0.00 | 5.13 | 0.02 | 0.00 | 9.76 | 0.74 | 0.26 | 5.12 | 0.02 | 0.03 |
| 9.78 | 0.74 | 0.26 | 5.11 | 0.02 | 0.03 | 9.80 | 0.76 | 0.24 | 5.10 | 0.02 | 0.02 |
| 9.82 | 0.78 | 0.22 | 5.09 | 0.02 | 0.02 | 9.84 | 0.80 | 0.20 | 5.08 | 0.02 | 0.02 |
| 9.86 | 0.80 | 0.20 | 5.07 | 0.02 | 0.02 | 9.88 | 0.79 | 0.21 | 5.06 | 0.02 | 0.02 |
| 9.90 | 0.78 | 0.22 | 5.05 | 0.02 | 0.02 | 9.92 | 0.77 | 0.23 | 5.04 | 0.02 | 0.02 |
| 9.94 | 0.79 | 0.21 | 5.03 | 0.02 | 0.02 | 9.96 | 0.83 | 0.17 | 5.02 | 0.02 | 0.02 |
| 9.98 | 0.85 | 0.15 | 5.01 | 0.02 | 0.01 | 10.00 | 0.78 | 0.22 | 5.00 | 0.02 | 0.02 |
| 10.02 | 0.63 | 0.37 | 4.99 | 0.02 | 0.04 | 10.04 | 0.70 | 0.30 | 4.98 | 0.02 | 0.03 |
| 10.06 | 0.75 | 0.25 | 4.97 | 0.02 | 0.03 | 10.08 | 0.77 | 0.23 | 4.96 | 0.02 | 0.02 |
| 10.10 | 0.78 | 0.22 | 4.95 | 0.02 | 0.02 | 10.12 | 0.79 | 0.21 | 4.94 | 0.02 | 0.02 |
| 10.14 | 0.80 | 0.20 | 4.93 | 0.02 | 0.02 | 10.16 | 0.81 | 0.19 | 4.92 | 0.02 | 0.02 |
| 10.18 | 0.81 | 0.19 | 4.91 | 0.02 | 0.02 | 10.20 | 0.79 | 0.21 | 4.90 | 0.02 | 0.02 |
| 10.22 | 0.79 | 0.21 | 4.89 | 0.02 | 0.02 | 10.24 | 0.81 | 0.19 | 4.88 | 0.02 | 0.02 |
| 10.26 | 0.86 | 0.14 | 4.87 | 0.02 | 0.01 | 10.28 | 0.91 | 0.09 | 4.86 | 0.02 | 0.01 |
| 10.30 | 2.00 | 0.00 | 4.85 | 0.02 | 0.00 | 10.32 | 2.00 | 0.00 | 4.84 | 0.02 | 0.00 |
| 10.34 | 2.00 | 0.00 | 4.83 | 0.02 | 0.00 | 10.36 | 2.00 | 0.00 | 4.82 | 0.02 | 0.00 |
| 10.38 | 2.00 | 0.00 | 4.81 | 0.02 | 0.00 | 10.40 | 2.00 | 0.00 | 4.80 | 0.02 | 0.00 |
| 10.42 | 2.00 | 0.00 | 4.79 | 0.02 | 0.00 | 10.44 | 2.00 | 0.00 | 4.78 | 0.02 | 0.00 |
| 10.46 | 2.00 | 0.00 | 4.77 | 0.02 | 0.00 | 10.48 | 2.00 | 0.00 | 4.76 | 0.02 | 0.00 |
| 10.50 | 2.00 | 0.00 | 4.75 | 0.02 | 0.00 | 10.52 | 2.00 | 0.00 | 4.74 | 0.02 | 0.00 |
| 10.54 | 2.00 | 0.00 | 4.73 | 0.02 | 0.00 | 10.56 | 2.00 | 0.00 | 4.72 | 0.02 | 0.00 |
| 10.58 | 2.00 | 0.00 | 4.71 | 0.02 | 0.00 | 10.60 | 2.00 | 0.00 | 4.70 | 0.02 | 0.00 |
| 10.62 | 2.00 | 0.00 | 4.69 | 0.02 | 0.00 | 10.64 | 2.00 | 0.00 | 4.68 | 0.02 | 0.00 |
| 10.66 | 2.00 | 0.00 | 4.67 | 0.02 | 0.00 | 10.68 | 2.00 | 0.00 | 4.66 | 0.02 | 0.00 |
| 10.70 | 2.00 | 0.00 | 4.65 | 0.02 | 0.00 | 10.72 | 2.00 | 0.00 | 4.64 | 0.02 | 0.00 |
| 10.74 | 2.00 | 0.00 | 4.63 | 0.02 | 0.00 | 10.76 | 2.00 | 0.00 | 4.62 | 0.02 | 0.00 |
| 10.78 | 2.00 | 0.00 | 4.61 | 0.02 | 0.00 | 10.80 | 2.00 | 0.00 | 4.60 | 0.02 | 0.00 |
| 10.82 | 2.00 | 0.00 | 4.59 | 0.02 | 0.00 | 10.84 | 2.00 | 0.00 | 4.58 | 0.02 | 0.00 |
| 10.86 | 2.00 | 0.00 | 4.57 | 0.02 | 0.00 | 10.88 | 2.00 | 0.00 | 4.56 | 0.02 | 0.00 |
| 10.90 | 2.00 | 0.00 | 4.55 | 0.02 | 0.00 | 10.92 | 2.00 | 0.00 | 4.54 | 0.02 | 0.00 |
| 10.94 | 2.00 | 0.00 | 4.53 | 0.02 | 0.00 | 10.96 | 2.00 | 0.00 | 4.52 | 0.02 | 0.00 |
| 10.98 | 2.00 | 0.00 | 4.51 | 0.02 | 0.00 | 11.00 | 2.00 | 0.00 | 4.50 | 0.02 | 0.00 |
| 11.02 | 2.00 | 0.00 | 4.49 | 0.02 | 0.00 | 11.04 | 2.00 | 0.00 | 4.48 | 0.02 | 0.00 |
| 11.06 | 2.00 | 0.00 | 4.47 | 0.02 | 0.00 | 11.08 | 2.00 | 0.00 | 4.46 | 0.02 | 0.00 |
| 11.10 | 0.78 | 0.22 | 4.45 | 0.02 | 0.02 | 11.12 | 0.75 | 0.25 | 4.44 | 0.02 | 0.02 |
| 11.14 | 0.74 | 0.26 | 4.43 | 0.02 | 0.02 | 11.16 | 0.75 | 0.25 | 4.42 | 0.02 | 0.02 |
| 11.18 | 0.77 | 0.23 | 4.41 | 0.02 | 0.02 | 11.20 | 0.80 | 0.20 | 4.40 | 0.02 | 0.02 |
| 11.22 | 2.00 | 0.00 | 4.39 | 0.02 | 0.00 | 11.24 | 2.00 | 0.00 | 4.38 | 0.02 | 0.00 |
| 11.26 | 2.00 | 0.00 | 4.37 | 0.02 | 0.00 | 11.28 | 2.00 | 0.00 | 4.36 | 0.02 | 0.00 |
| 11.30 | 2.00 | 0.00 | 4.35 | 0.02 | 0.00 | 11.32 | 2.00 | 0.00 | 4.34 | 0.02 | 0.00 |
| 11.34 | 2.00 | 0.00 | 4.33 | 0.02 | 0.00 | 11.36 | 2.00 | 0.00 | 4.32 | 0.02 | 0.00 |
| 11.38 | 2.00 | 0.00 | 4.31 | 0.02 | 0.00 | 11.40 | 2.00 | 0.00 | 4.30 | 0.02 | 0.00 |
| 11.42 | 2.00 | 0.00 | 4.29 | 0.02 | 0.00 | 11.44 | 2.00 | 0.00 | 4.28 | 0.02 | 0.00 |
| 11.46 | 2.00 | 0.00 | 4.27 | 0.02 | 0.00 | 11.48 | 2.00 | 0.00 | 4.26 | 0.02 | 0.00 |
| 11.50 | 2.00 | 0.00 | 4.25 | 0.02 | 0.00 | 11.52 | 2.00 | 0.00 | 4.24 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 11.54 | 0.89 | 0.11 | 4.23 | 0.02 | 0.01 | 11.56 | 0.91 | 0.09 | 4.22 | 0.02 | 0.01 |
| 11.58 | 2.00 | 0.00 | 4.21 | 0.02 | 0.00 | 11.60 | 2.00 | 0.00 | 4.20 | 0.02 | 0.00 |
| 11.62 | 2.00 | 0.00 | 4.19 | 0.02 | 0.00 | 11.64 | 2.00 | 0.00 | 4.18 | 0.02 | 0.00 |
| 11.66 | 2.00 | 0.00 | 4.17 | 0.02 | 0.00 | 11.68 | 2.00 | 0.00 | 4.16 | 0.02 | 0.00 |
| 11.70 | 2.00 | 0.00 | 4.15 | 0.02 | 0.00 | 11.72 | 2.00 | 0.00 | 4.14 | 0.02 | 0.00 |
| 11.74 | 2.00 | 0.00 | 4.13 | 0.02 | 0.00 | 11.76 | 1.04 | 0.00 | 4.12 | 0.02 | 0.00 |
| 11.78 | 1.02 | 0.00 | 4.11 | 0.02 | 0.00 | 11.80 | 1.03 | 0.00 | 4.10 | 0.02 | 0.00 |
| 11.82 | 1.03 | 0.00 | 4.09 | 0.02 | 0.00 | 11.84 | 1.05 | 0.00 | 4.08 | 0.02 | 0.00 |
| 11.86 | 1.06 | 0.00 | 4.07 | 0.02 | 0.00 | 11.88 | 1.09 | 0.00 | 4.06 | 0.02 | 0.00 |
| 11.90 | 1.10 | 0.00 | 4.05 | 0.02 | 0.00 | 11.92 | 1.16 | 0.00 | 4.04 | 0.02 | 0.00 |
| 11.94 | 2.00 | 0.00 | 4.03 | 0.02 | 0.00 | 11.96 | 2.00 | 0.00 | 4.02 | 0.02 | 0.00 |
| 11.98 | 2.00 | 0.00 | 4.01 | 0.02 | 0.00 | 12.00 | 2.00 | 0.00 | 4.00 | 0.02 | 0.00 |
| 12.02 | 2.00 | 0.00 | 3.99 | 0.02 | 0.00 | 12.04 | 2.00 | 0.00 | 3.98 | 0.02 | 0.00 |
| 12.06 | 2.00 | 0.00 | 3.97 | 0.02 | 0.00 | 12.08 | 2.00 | 0.00 | 3.96 | 0.02 | 0.00 |
| 12.10 | 2.00 | 0.00 | 3.95 | 0.02 | 0.00 | 12.12 | 2.00 | 0.00 | 3.94 | 0.02 | 0.00 |
| 12.14 | 2.00 | 0.00 | 3.93 | 0.02 | 0.00 | 12.16 | 2.00 | 0.00 | 3.92 | 0.02 | 0.00 |
| 12.18 | 2.00 | 0.00 | 3.91 | 0.02 | 0.00 | 12.20 | 2.00 | 0.00 | 3.90 | 0.02 | 0.00 |
| 12.22 | 2.00 | 0.00 | 3.89 | 0.02 | 0.00 | 12.24 | 2.00 | 0.00 | 3.88 | 0.02 | 0.00 |
| 12.26 | 0.88 | 0.12 | 3.87 | 0.02 | 0.01 | 12.28 | 0.94 | 0.06 | 3.86 | 0.02 | 0.00 |
| 12.30 | 0.98 | 0.02 | 3.85 | 0.02 | 0.00 | 12.32 | 2.00 | 0.00 | 3.84 | 0.02 | 0.00 |
| 12.34 | 2.00 | 0.00 | 3.83 | 0.02 | 0.00 | 12.36 | 2.00 | 0.00 | 3.82 | 0.02 | 0.00 |
| 12.38 | 2.00 | 0.00 | 3.81 | 0.02 | 0.00 | 12.40 | 2.00 | 0.00 | 3.80 | 0.02 | 0.00 |
| 12.42 | 0.96 | 0.04 | 3.79 | 0.02 | 0.00 | 12.44 | 1.06 | 0.00 | 3.78 | 0.02 | 0.00 |
| 12.46 | 1.15 | 0.00 | 3.77 | 0.02 | 0.00 | 12.48 | 2.00 | 0.00 | 3.76 | 0.02 | 0.00 |
| 12.50 | 2.00 | 0.00 | 3.75 | 0.02 | 0.00 | 12.52 | 2.00 | 0.00 | 3.74 | 0.02 | 0.00 |
| 12.54 | 2.00 | 0.00 | 3.73 | 0.02 | 0.00 | 12.56 | 1.03 | 0.00 | 3.72 | 0.02 | 0.00 |
| 12.58 | 0.97 | 0.03 | 3.71 | 0.02 | 0.00 | 12.60 | 0.91 | 0.09 | 3.70 | 0.02 | 0.01 |
| 12.62 | 0.87 | 0.13 | 3.69 | 0.02 | 0.01 | 12.64 | 0.84 | 0.16 | 3.68 | 0.02 | 0.01 |
| 12.66 | 0.85 | 0.15 | 3.67 | 0.02 | 0.01 | 12.68 | 0.87 | 0.13 | 3.66 | 0.02 | 0.01 |
| 12.70 | 0.90 | 0.10 | 3.65 | 0.02 | 0.01 | 12.72 | 0.91 | 0.09 | 3.64 | 0.02 | 0.01 |
| 12.74 | 0.91 | 0.09 | 3.63 | 0.02 | 0.01 | 12.76 | 0.89 | 0.11 | 3.62 | 0.02 | 0.01 |
| 12.78 | 0.77 | 0.23 | 3.61 | 0.02 | 0.02 | 12.80 | 0.77 | 0.23 | 3.60 | 0.02 | 0.02 |
| 12.82 | 0.76 | 0.24 | 3.59 | 0.02 | 0.02 | 12.84 | 0.87 | 0.13 | 3.58 | 0.02 | 0.01 |
| 12.86 | 0.86 | 0.14 | 3.57 | 0.02 | 0.01 | 12.88 | 0.83 | 0.17 | 3.56 | 0.02 | 0.01 |
| 12.90 | 0.72 | 0.28 | 3.55 | 0.02 | 0.02 | 12.92 | 0.73 | 0.27 | 3.54 | 0.02 | 0.02 |
| 12.94 | 0.74 | 0.26 | 3.53 | 0.02 | 0.02 | 12.96 | 0.74 | 0.26 | 3.52 | 0.02 | 0.02 |
| 12.98 | 0.72 | 0.28 | 3.51 | 0.02 | 0.02 | 13.00 | 0.68 | 0.32 | 3.50 | 0.02 | 0.02 |
| 13.02 | 0.77 | 0.23 | 3.49 | 0.02 | 0.02 | 13.04 | 0.77 | 0.23 | 3.48 | 0.02 | 0.02 |
| 13.06 | 0.77 | 0.23 | 3.47 | 0.02 | 0.02 | 13.08 | 0.78 | 0.22 | 3.46 | 0.02 | 0.02 |
| 13.10 | 2.00 | 0.00 | 3.45 | 0.02 | 0.00 | 13.12 | 2.00 | 0.00 | 3.44 | 0.02 | 0.00 |
| 13.14 | 2.00 | 0.00 | 3.43 | 0.02 | 0.00 | 13.16 | 2.00 | 0.00 | 3.42 | 0.02 | 0.00 |
| 13.18 | 2.00 | 0.00 | 3.41 | 0.02 | 0.00 | 13.20 | 2.00 | 0.00 | 3.40 | 0.02 | 0.00 |
| 13.22 | 2.00 | 0.00 | 3.39 | 0.02 | 0.00 | 13.24 | 0.86 | 0.14 | 3.38 | 0.02 | 0.01 |
| 13.26 | 0.94 | 0.06 | 3.37 | 0.02 | 0.00 | 13.28 | 1.02 | 0.00 | 3.36 | 0.02 | 0.00 |
| 13.30 | 1.08 | 0.00 | 3.35 | 0.02 | 0.00 | 13.32 | 2.00 | 0.00 | 3.34 | 0.02 | 0.00 |
| 13.34 | 1.08 | 0.00 | 3.33 | 0.02 | 0.00 | 13.36 | 1.00 | 0.00 | 3.32 | 0.02 | 0.00 |
| 13.38 | 0.99 | 0.01 | 3.31 | 0.02 | 0.00 | 13.40 | 1.11 | 0.00 | 3.30 | 0.02 | 0.00 |
| 13.42 | 1.35 | 0.00 | 3.29 | 0.02 | 0.00 | 13.44 | 1.55 | 0.00 | 3.28 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 13.46 | 1.61 | 0.00 | 3.27 | 0.02 | 0.00 | 13.48 | 1.58 | 0.00 | 3.26 | 0.02 | 0.00 |
| 13.50 | 1.66 | 0.00 | 3.25 | 0.02 | 0.00 | 13.52 | 1.78 | 0.00 | 3.24 | 0.02 | 0.00 |
| 13.54 | 2.00 | 0.00 | 3.23 | 0.02 | 0.00 | 13.56 | 2.00 | 0.00 | 3.22 | 0.02 | 0.00 |
| 13.58 | 2.00 | 0.00 | 3.21 | 0.02 | 0.00 | 13.60 | 2.00 | 0.00 | 3.20 | 0.02 | 0.00 |
| 13.62 | 2.00 | 0.00 | 3.19 | 0.02 | 0.00 | 13.64 | 2.00 | 0.00 | 3.18 | 0.02 | 0.00 |
| 13.66 | 2.00 | 0.00 | 3.17 | 0.02 | 0.00 | 13.68 | 2.00 | 0.00 | 3.16 | 0.02 | 0.00 |
| 13.70 | 2.00 | 0.00 | 3.15 | 0.02 | 0.00 | 13.72 | 2.00 | 0.00 | 3.14 | 0.02 | 0.00 |
| 13.74 | 2.00 | 0.00 | 3.13 | 0.02 | 0.00 | 13.76 | 2.00 | 0.00 | 3.12 | 0.02 | 0.00 |
| 13.78 | 2.00 | 0.00 | 3.11 | 0.02 | 0.00 | 13.80 | 2.00 | 0.00 | 3.10 | 0.02 | 0.00 |
| 13.82 | 2.00 | 0.00 | 3.09 | 0.02 | 0.00 | 13.84 | 2.00 | 0.00 | 3.08 | 0.02 | 0.00 |
| 13.86 | 2.00 | 0.00 | 3.07 | 0.02 | 0.00 | 13.88 | 2.00 | 0.00 | 3.06 | 0.02 | 0.00 |
| 13.90 | 2.00 | 0.00 | 3.05 | 0.02 | 0.00 | 13.92 | 2.00 | 0.00 | 3.04 | 0.02 | 0.00 |
| 13.94 | 2.00 | 0.00 | 3.03 | 0.02 | 0.00 | 13.96 | 2.00 | 0.00 | 3.02 | 0.02 | 0.00 |
| 13.98 | 2.00 | 0.00 | 3.01 | 0.02 | 0.00 | 14.00 | 2.00 | 0.00 | 3.00 | 0.02 | 0.00 |
| 14.02 | 2.00 | 0.00 | 2.99 | 0.02 | 0.00 | 14.04 | 2.00 | 0.00 | 2.98 | 0.02 | 0.00 |
| 14.06 | 0.83 | 0.17 | 2.97 | 0.02 | 0.01 | 14.08 | 0.78 | 0.22 | 2.96 | 0.02 | 0.01 |
| 14.10 | 0.96 | 0.04 | 2.95 | 0.02 | 0.00 | 14.12 | 1.26 | 0.00 | 2.94 | 0.02 | 0.00 |
| 14.14 | 1.37 | 0.00 | 2.93 | 0.02 | 0.00 | 14.16 | 1.41 | 0.00 | 2.92 | 0.02 | 0.00 |
| 14.18 | 1.48 | 0.00 | 2.91 | 0.02 | 0.00 | 14.20 | 2.00 | 0.00 | 2.90 | 0.02 | 0.00 |
| 14.22 | 2.00 | 0.00 | 2.89 | 0.02 | 0.00 | 14.24 | 2.00 | 0.00 | 2.88 | 0.02 | 0.00 |
| 14.26 | 2.00 | 0.00 | 2.87 | 0.02 | 0.00 | 14.28 | 2.00 | 0.00 | 2.86 | 0.02 | 0.00 |
| 14.30 | 2.00 | 0.00 | 2.85 | 0.02 | 0.00 | 14.32 | 1.15 | 0.00 | 2.84 | 0.02 | 0.00 |
| 14.34 | 2.00 | 0.00 | 2.83 | 0.02 | 0.00 | 14.36 | 2.00 | 0.00 | 2.82 | 0.02 | 0.00 |
| 14.38 | 2.00 | 0.00 | 2.81 | 0.02 | 0.00 | 14.40 | 2.00 | 0.00 | 2.80 | 0.02 | 0.00 |
| 14.42 | 2.00 | 0.00 | 2.79 | 0.02 | 0.00 | 14.44 | 2.00 | 0.00 | 2.78 | 0.02 | 0.00 |
| 14.46 | 2.00 | 0.00 | 2.77 | 0.02 | 0.00 | 14.48 | 2.00 | 0.00 | 2.76 | 0.02 | 0.00 |
| 14.50 | 2.00 | 0.00 | 2.75 | 0.02 | 0.00 | 14.52 | 0.92 | 0.08 | 2.74 | 0.02 | 0.00 |
| 14.54 | 0.96 | 0.04 | 2.73 | 0.02 | 0.00 | 14.56 | 1.16 | 0.00 | 2.72 | 0.02 | 0.00 |
| 14.58 | 1.45 | 0.00 | 2.71 | 0.02 | 0.00 | 14.60 | 1.69 | 0.00 | 2.70 | 0.02 | 0.00 |
| 14.62 | 1.81 | 0.00 | 2.69 | 0.02 | 0.00 | 14.64 | 1.91 | 0.00 | 2.68 | 0.02 | 0.00 |
| 14.66 | 2.00 | 0.00 | 2.67 | 0.02 | 0.00 | 14.68 | 2.00 | 0.00 | 2.66 | 0.02 | 0.00 |
| 14.70 | 2.00 | 0.00 | 2.65 | 0.02 | 0.00 | 14.72 | 2.00 | 0.00 | 2.64 | 0.02 | 0.00 |
| 14.74 | 2.00 | 0.00 | 2.63 | 0.02 | 0.00 | 14.76 | 2.00 | 0.00 | 2.62 | 0.02 | 0.00 |
| 14.78 | 2.00 | 0.00 | 2.61 | 0.02 | 0.00 | 14.80 | 2.00 | 0.00 | 2.60 | 0.02 | 0.00 |
| 14.82 | 1.95 | 0.00 | 2.59 | 0.02 | 0.00 | 14.84 | 1.93 | 0.00 | 2.58 | 0.02 | 0.00 |
| 14.86 | 2.00 | 0.00 | 2.57 | 0.02 | 0.00 | 14.88 | 2.00 | 0.00 | 2.56 | 0.02 | 0.00 |
| 14.90 | 2.00 | 0.00 | 2.55 | 0.02 | 0.00 | 14.92 | 2.00 | 0.00 | 2.54 | 0.02 | 0.00 |
| 14.94 | 2.00 | 0.00 | 2.53 | 0.02 | 0.00 | 14.96 | 2.00 | 0.00 | 2.52 | 0.02 | 0.00 |
| 14.98 | 2.00 | 0.00 | 2.51 | 0.02 | 0.00 | 15.00 | 2.00 | 0.00 | 2.50 | 0.02 | 0.00 |
| 15.02 | 2.00 | 0.00 | 2.49 | 0.02 | 0.00 | 15.04 | 2.00 | 0.00 | 2.48 | 0.02 | 0.00 |
| 15.06 | 2.00 | 0.00 | 2.47 | 0.02 | 0.00 | 15.08 | 2.00 | 0.00 | 2.46 | 0.02 | 0.00 |
| 15.10 | 2.00 | 0.00 | 2.45 | 0.02 | 0.00 | 15.12 | 2.00 | 0.00 | 2.44 | 0.02 | 0.00 |
| 15.14 | 2.00 | 0.00 | 2.43 | 0.02 | 0.00 | 15.16 | 2.00 | 0.00 | 2.42 | 0.02 | 0.00 |
| 15.18 | 2.00 | 0.00 | 2.41 | 0.02 | 0.00 | 15.20 | 2.00 | 0.00 | 2.40 | 0.02 | 0.00 |
| 15.22 | 2.00 | 0.00 | 2.39 | 0.02 | 0.00 | 15.24 | 2.00 | 0.00 | 2.38 | 0.02 | 0.00 |
| 15.26 | 2.00 | 0.00 | 2.37 | 0.02 | 0.00 | 15.28 | 2.00 | 0.00 | 2.36 | 0.02 | 0.00 |
| 15.30 | 2.00 | 0.00 | 2.35 | 0.02 | 0.00 | 15.32 | 2.00 | 0.00 | 2.34 | 0.02 | 0.00 |
| 15.34 | 2.00 | 0.00 | 2.33 | 0.02 | 0.00 | 15.36 | 2.00 | 0.00 | 2.32 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 15.38 | 2.00 | 0.00 | 2.31 | 0.02 | 0.00 | 15.40 | 2.00 | 0.00 | 2.30 | 0.02 | 0.00 |
| 15.42 | 2.00 | 0.00 | 2.29 | 0.02 | 0.00 | 15.44 | 2.00 | 0.00 | 2.28 | 0.02 | 0.00 |
| 15.46 | 2.00 | 0.00 | 2.27 | 0.02 | 0.00 | 15.48 | 2.00 | 0.00 | 2.26 | 0.02 | 0.00 |
| 15.50 | 2.00 | 0.00 | 2.25 | 0.02 | 0.00 | 15.52 | 2.00 | 0.00 | 2.24 | 0.02 | 0.00 |
| 15.54 | 2.00 | 0.00 | 2.23 | 0.02 | 0.00 | 15.56 | 2.00 | 0.00 | 2.22 | 0.02 | 0.00 |
| 15.58 | 2.00 | 0.00 | 2.21 | 0.02 | 0.00 | 15.60 | 2.00 | 0.00 | 2.20 | 0.02 | 0.00 |
| 15.62 | 2.00 | 0.00 | 2.19 | 0.02 | 0.00 | 15.64 | 2.00 | 0.00 | 2.18 | 0.02 | 0.00 |
| 15.66 | 2.00 | 0.00 | 2.17 | 0.02 | 0.00 | 15.68 | 2.00 | 0.00 | 2.16 | 0.02 | 0.00 |
| 15.70 | 2.00 | 0.00 | 2.15 | 0.02 | 0.00 | 15.72 | 2.00 | 0.00 | 2.14 | 0.02 | 0.00 |
| 15.74 | 2.00 | 0.00 | 2.13 | 0.02 | 0.00 | 15.76 | 2.00 | 0.00 | 2.12 | 0.02 | 0.00 |
| 15.78 | 2.00 | 0.00 | 2.11 | 0.02 | 0.00 | 15.80 | 2.00 | 0.00 | 2.10 | 0.02 | 0.00 |
| 15.82 | 2.00 | 0.00 | 2.09 | 0.02 | 0.00 | 15.84 | 2.00 | 0.00 | 2.08 | 0.02 | 0.00 |
| 15.86 | 2.00 | 0.00 | 2.07 | 0.02 | 0.00 | 15.88 | 2.00 | 0.00 | 2.06 | 0.02 | 0.00 |
| 15.90 | 2.00 | 0.00 | 2.05 | 0.02 | 0.00 | 15.92 | 2.00 | 0.00 | 2.04 | 0.02 | 0.00 |
| 15.94 | 2.00 | 0.00 | 2.03 | 0.02 | 0.00 | 15.96 | 2.00 | 0.00 | 2.02 | 0.02 | 0.00 |
| 15.98 | 2.00 | 0.00 | 2.01 | 0.02 | 0.00 | 16.00 | 2.00 | 0.00 | 2.00 | 0.02 | 0.00 |
| 16.02 | 2.00 | 0.00 | 1.99 | 0.02 | 0.00 | 16.04 | 2.00 | 0.00 | 1.98 | 0.02 | 0.00 |
| 16.06 | 2.00 | 0.00 | 1.97 | 0.02 | 0.00 | 16.08 | 2.00 | 0.00 | 1.96 | 0.02 | 0.00 |
| 16.10 | 2.00 | 0.00 | 1.95 | 0.02 | 0.00 | 16.12 | 2.00 | 0.00 | 1.94 | 0.02 | 0.00 |
| 16.14 | 2.00 | 0.00 | 1.93 | 0.02 | 0.00 | 16.16 | 2.00 | 0.00 | 1.92 | 0.02 | 0.00 |
| 16.18 | 2.00 | 0.00 | 1.91 | 0.02 | 0.00 | 16.20 | 2.00 | 0.00 | 1.90 | 0.02 | 0.00 |
| 16.22 | 2.00 | 0.00 | 1.89 | 0.02 | 0.00 | 16.24 | 2.00 | 0.00 | 1.88 | 0.02 | 0.00 |
| 16.26 | 2.00 | 0.00 | 1.87 | 0.02 | 0.00 | 16.28 | 2.00 | 0.00 | 1.86 | 0.02 | 0.00 |
| 16.30 | 2.00 | 0.00 | 1.85 | 0.02 | 0.00 | 16.32 | 2.00 | 0.00 | 1.84 | 0.02 | 0.00 |
| 16.34 | 2.00 | 0.00 | 1.83 | 0.02 | 0.00 | 16.36 | 2.00 | 0.00 | 1.82 | 0.02 | 0.00 |
| 16.38 | 2.00 | 0.00 | 1.81 | 0.02 | 0.00 | 16.40 | 2.00 | 0.00 | 1.80 | 0.02 | 0.00 |
| 16.42 | 2.00 | 0.00 | 1.79 | 0.02 | 0.00 | 16.44 | 2.00 | 0.00 | 1.78 | 0.02 | 0.00 |
| 16.46 | 2.00 | 0.00 | 1.77 | 0.02 | 0.00 | 16.48 | 2.00 | 0.00 | 1.76 | 0.02 | 0.00 |
| 16.50 | 2.00 | 0.00 | 1.75 | 0.02 | 0.00 | 16.52 | 2.00 | 0.00 | 1.74 | 0.02 | 0.00 |
| 16.54 | 1.01 | 0.00 | 1.73 | 0.02 | 0.00 | 16.56 | 0.98 | 0.02 | 1.72 | 0.02 | 0.00 |
| 16.58 | 0.99 | 0.01 | 1.71 | 0.02 | 0.00 | 16.60 | 0.99 | 0.01 | 1.70 | 0.02 | 0.00 |
| 16.62 | 0.98 | 0.02 | 1.69 | 0.02 | 0.00 | 16.64 | 0.98 | 0.02 | 1.68 | 0.02 | 0.00 |
| 16.66 | 0.97 | 0.03 | 1.67 | 0.02 | 0.00 | 16.68 | 0.97 | 0.03 | 1.66 | 0.02 | 0.00 |
| 16.70 | 0.97 | 0.03 | 1.65 | 0.02 | 0.00 | 16.72 | 0.96 | 0.04 | 1.64 | 0.02 | 0.00 |
| 16.74 | 0.96 | 0.04 | 1.63 | 0.02 | 0.00 | 16.76 | 0.95 | 0.05 | 1.62 | 0.02 | 0.00 |
| 16.78 | 0.94 | 0.06 | 1.61 | 0.02 | 0.00 | 16.80 | 0.94 | 0.06 | 1.60 | 0.02 | 0.00 |
| 16.82 | 0.95 | 0.05 | 1.59 | 0.02 | 0.00 | 16.84 | 0.97 | 0.03 | 1.58 | 0.02 | 0.00 |
| 16.86 | 0.99 | 0.01 | 1.57 | 0.02 | 0.00 | 16.88 | 1.00 | 0.00 | 1.56 | 0.02 | 0.00 |
| 16.90 | 1.00 | 0.00 | 1.55 | 0.02 | 0.00 | 16.92 | 0.99 | 0.01 | 1.54 | 0.02 | 0.00 |
| 16.94 | 0.98 | 0.02 | 1.53 | 0.02 | 0.00 | 16.96 | 0.98 | 0.02 | 1.52 | 0.02 | 0.00 |
| 16.98 | 0.99 | 0.01 | 1.51 | 0.02 | 0.00 | 17.00 | 1.00 | 0.00 | 1.50 | 0.02 | 0.00 |
| 17.02 | 1.03 | 0.00 | 1.49 | 0.02 | 0.00 | 17.04 | 1.07 | 0.00 | 1.48 | 0.02 | 0.00 |
| 17.06 | 1.13 | 0.00 | 1.47 | 0.02 | 0.00 | 17.08 | 2.00 | 0.00 | 1.46 | 0.02 | 0.00 |
| 17.10 | 2.00 | 0.00 | 1.45 | 0.02 | 0.00 | 17.12 | 2.00 | 0.00 | 1.44 | 0.02 | 0.00 |
| 17.14 | 2.00 | 0.00 | 1.43 | 0.02 | 0.00 | 17.16 | 2.00 | 0.00 | 1.42 | 0.02 | 0.00 |
| 17.18 | 2.00 | 0.00 | 1.41 | 0.02 | 0.00 | 17.20 | 2.00 | 0.00 | 1.40 | 0.02 | 0.00 |
| 17.22 | 2.00 | 0.00 | 1.39 | 0.02 | 0.00 | 17.24 | 2.00 | 0.00 | 1.38 | 0.02 | 0.00 |
| 17.26 | 2.00 | 0.00 | 1.37 | 0.02 | 0.00 | 17.28 | 2.00 | 0.00 | 1.36 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 17.30 | 2.00 | 0.00 | 1.35 | 0.02 | 0.00 | 17.32 | 2.00 | 0.00 | 1.34 | 0.02 | 0.00 |
| 17.34 | 2.00 | 0.00 | 1.33 | 0.02 | 0.00 | 17.36 | 2.00 | 0.00 | 1.32 | 0.02 | 0.00 |
| 17.38 | 2.00 | 0.00 | 1.31 | 0.02 | 0.00 | 17.40 | 2.00 | 0.00 | 1.30 | 0.02 | 0.00 |
| 17.42 | 2.00 | 0.00 | 1.29 | 0.02 | 0.00 | 17.44 | 2.00 | 0.00 | 1.28 | 0.02 | 0.00 |
| 17.46 | 2.00 | 0.00 | 1.27 | 0.02 | 0.00 | 17.48 | 2.00 | 0.00 | 1.26 | 0.02 | 0.00 |
| 17.50 | 2.00 | 0.00 | 1.25 | 0.02 | 0.00 | 17.52 | 2.00 | 0.00 | 1.24 | 0.02 | 0.00 |
| 17.54 | 2.00 | 0.00 | 1.23 | 0.02 | 0.00 | 17.56 | 2.00 | 0.00 | 1.22 | 0.02 | 0.00 |
| 17.58 | 2.00 | 0.00 | 1.21 | 0.02 | 0.00 | 17.60 | 2.00 | 0.00 | 1.20 | 0.02 | 0.00 |
| 17.62 | 2.00 | 0.00 | 1.19 | 0.02 | 0.00 | 17.64 | 2.00 | 0.00 | 1.18 | 0.02 | 0.00 |
| 17.66 | 2.00 | 0.00 | 1.17 | 0.02 | 0.00 | 17.68 | 2.00 | 0.00 | 1.16 | 0.02 | 0.00 |
| 17.70 | 2.00 | 0.00 | 1.15 | 0.02 | 0.00 | 17.72 | 2.00 | 0.00 | 1.14 | 0.02 | 0.00 |
| 17.74 | 2.00 | 0.00 | 1.13 | 0.02 | 0.00 | 17.76 | 2.00 | 0.00 | 1.12 | 0.02 | 0.00 |
| 17.78 | 2.00 | 0.00 | 1.11 | 0.02 | 0.00 | 17.80 | 2.00 | 0.00 | 1.10 | 0.02 | 0.00 |
| 17.82 | 2.00 | 0.00 | 1.09 | 0.02 | 0.00 | 17.84 | 2.00 | 0.00 | 1.08 | 0.02 | 0.00 |
| 17.86 | 2.00 | 0.00 | 1.07 | 0.02 | 0.00 | 17.88 | 2.00 | 0.00 | 1.06 | 0.02 | 0.00 |
| 17.90 | 2.00 | 0.00 | 1.05 | 0.02 | 0.00 | 17.92 | 2.00 | 0.00 | 1.04 | 0.02 | 0.00 |
| 17.94 | 2.00 | 0.00 | 1.03 | 0.02 | 0.00 | 17.96 | 2.00 | 0.00 | 1.02 | 0.02 | 0.00 |
| 17.98 | 2.00 | 0.00 | 1.01 | 0.02 | 0.00 | 18.00 | 2.00 | 0.00 | 1.00 | 0.02 | 0.00 |
| 18.02 | 2.00 | 0.00 | 0.99 | 0.02 | 0.00 | 18.04 | 2.00 | 0.00 | 0.98 | 0.02 | 0.00 |
| 18.06 | 2.00 | 0.00 | 0.97 | 0.02 | 0.00 | 18.08 | 2.00 | 0.00 | 0.96 | 0.02 | 0.00 |
| 18.10 | 2.00 | 0.00 | 0.95 | 0.02 | 0.00 | 18.12 | 2.00 | 0.00 | 0.94 | 0.02 | 0.00 |
| 18.14 | 2.00 | 0.00 | 0.93 | 0.02 | 0.00 | 18.16 | 2.00 | 0.00 | 0.92 | 0.02 | 0.00 |
| 18.18 | 2.00 | 0.00 | 0.91 | 0.02 | 0.00 | 18.20 | 2.00 | 0.00 | 0.90 | 0.02 | 0.00 |
| 18.22 | 2.00 | 0.00 | 0.89 | 0.02 | 0.00 | 18.24 | 2.00 | 0.00 | 0.88 | 0.02 | 0.00 |
| 18.26 | 2.00 | 0.00 | 0.87 | 0.02 | 0.00 | 18.28 | 2.00 | 0.00 | 0.86 | 0.02 | 0.00 |
| 18.30 | 2.00 | 0.00 | 0.85 | 0.02 | 0.00 | 18.32 | 2.00 | 0.00 | 0.84 | 0.02 | 0.00 |
| 18.34 | 2.00 | 0.00 | 0.83 | 0.02 | 0.00 | 18.36 | 2.00 | 0.00 | 0.82 | 0.02 | 0.00 |
| 18.38 | 2.00 | 0.00 | 0.81 | 0.02 | 0.00 | 18.40 | 2.00 | 0.00 | 0.80 | 0.02 | 0.00 |
| 18.42 | 2.00 | 0.00 | 0.79 | 0.02 | 0.00 | 18.44 | 2.00 | 0.00 | 0.78 | 0.02 | 0.00 |
| 18.46 | 2.00 | 0.00 | 0.77 | 0.02 | 0.00 | 18.48 | 2.00 | 0.00 | 0.76 | 0.02 | 0.00 |
| 18.50 | 2.00 | 0.00 | 0.75 | 0.02 | 0.00 | 18.52 | 2.00 | 0.00 | 0.74 | 0.02 | 0.00 |
| 18.54 | 2.00 | 0.00 | 0.73 | 0.02 | 0.00 | 18.56 | 2.00 | 0.00 | 0.72 | 0.02 | 0.00 |
| 18.58 | 2.00 | 0.00 | 0.71 | 0.02 | 0.00 | 18.60 | 2.00 | 0.00 | 0.70 | 0.02 | 0.00 |
| 18.62 | 2.00 | 0.00 | 0.69 | 0.02 | 0.00 | 18.64 | 2.00 | 0.00 | 0.68 | 0.02 | 0.00 |
| 18.66 | 2.00 | 0.00 | 0.67 | 0.02 | 0.00 | 18.68 | 2.00 | 0.00 | 0.66 | 0.02 | 0.00 |
| 18.70 | 2.00 | 0.00 | 0.65 | 0.02 | 0.00 | 18.72 | 2.00 | 0.00 | 0.64 | 0.02 | 0.00 |
| 18.74 | 2.00 | 0.00 | 0.63 | 0.02 | 0.00 | 18.76 | 2.00 | 0.00 | 0.62 | 0.02 | 0.00 |
| 18.78 | 2.00 | 0.00 | 0.61 | 0.02 | 0.00 | 18.80 | 2.00 | 0.00 | 0.60 | 0.02 | 0.00 |
| 18.82 | 2.00 | 0.00 | 0.59 | 0.02 | 0.00 | 18.84 | 2.00 | 0.00 | 0.58 | 0.02 | 0.00 |
| 18.86 | 2.00 | 0.00 | 0.57 | 0.02 | 0.00 | 18.88 | 2.00 | 0.00 | 0.56 | 0.02 | 0.00 |
| 18.90 | 2.00 | 0.00 | 0.55 | 0.02 | 0.00 | 18.92 | 2.00 | 0.00 | 0.54 | 0.02 | 0.00 |
| 18.94 | 2.00 | 0.00 | 0.53 | 0.02 | 0.00 | 18.96 | 2.00 | 0.00 | 0.52 | 0.02 | 0.00 |
| 18.98 | 2.00 | 0.00 | 0.51 | 0.02 | 0.00 | 19.00 | 2.00 | 0.00 | 0.50 | 0.02 | 0.00 |
| 19.02 | 2.00 | 0.00 | 0.49 | 0.02 | 0.00 | 19.04 | 2.00 | 0.00 | 0.48 | 0.02 | 0.00 |
| 19.06 | 2.00 | 0.00 | 0.47 | 0.02 | 0.00 | 19.08 | 2.00 | 0.00 | 0.46 | 0.02 | 0.00 |
| 19.10 | 2.00 | 0.00 | 0.45 | 0.02 | 0.00 | 19.12 | 2.00 | 0.00 | 0.44 | 0.02 | 0.00 |
| 19.14 | 2.00 | 0.00 | 0.43 | 0.02 | 0.00 | 19.16 | 2.00 | 0.00 | 0.42 | 0.02 | 0.00 |
| 19.18 | 2.00 | 0.00 | 0.41 | 0.02 | 0.00 | 19.20 | 2.00 | 0.00 | 0.40 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 19.22 | 2.00 | 0.00 | 0.39 | 0.02 | 0.00 | 19.24 | 2.00 | 0.00 | 0.38 | 0.02 | 0.00 |
| 19.26 | 2.00 | 0.00 | 0.37 | 0.02 | 0.00 | 19.28 | 2.00 | 0.00 | 0.36 | 0.02 | 0.00 |
| 19.30 | 2.00 | 0.00 | 0.35 | 0.02 | 0.00 | 19.32 | 2.00 | 0.00 | 0.34 | 0.02 | 0.00 |
| 19.34 | 2.00 | 0.00 | 0.33 | 0.02 | 0.00 | 19.36 | 2.00 | 0.00 | 0.32 | 0.02 | 0.00 |
| 19.38 | 1.08 | 0.00 | 0.31 | 0.02 | 0.00 | 19.40 | 1.06 | 0.00 | 0.30 | 0.02 | 0.00 |
| 19.42 | 1.03 | 0.00 | 0.29 | 0.02 | 0.00 | 19.44 | 1.03 | 0.00 | 0.28 | 0.02 | 0.00 |
| 19.46 | 1.05 | 0.00 | 0.27 | 0.02 | 0.00 | 19.48 | 2.00 | 0.00 | 0.26 | 0.02 | 0.00 |
| 19.50 | 2.00 | 0.00 | 0.25 | 0.02 | 0.00 | 19.52 | 2.00 | 0.00 | 0.24 | 0.02 | 0.00 |
| 19.54 | 2.00 | 0.00 | 0.23 | 0.02 | 0.00 | 19.56 | 2.00 | 0.00 | 0.22 | 0.02 | 0.00 |
| 19.58 | 1.02 | 0.00 | 0.21 | 0.02 | 0.00 | 19.60 | 1.05 | 0.00 | 0.20 | 0.02 | 0.00 |
| 19.62 | 2.00 | 0.00 | 0.19 | 0.02 | 0.00 | 19.64 | 2.00 | 0.00 | 0.18 | 0.02 | 0.00 |
| 19.66 | 2.00 | 0.00 | 0.17 | 0.02 | 0.00 | 19.68 | 2.00 | 0.00 | 0.16 | 0.02 | 0.00 |
| 19.70 | 2.00 | 0.00 | 0.15 | 0.02 | 0.00 | 19.72 | 2.00 | 0.00 | 0.14 | 0.02 | 0.00 |
| 19.74 | 2.00 | 0.00 | 0.13 | 0.02 | 0.00 | 19.76 | 2.00 | 0.00 | 0.12 | 0.02 | 0.00 |
| 19.78 | 2.00 | 0.00 | 0.11 | 0.02 | 0.00 | 19.80 | 2.00 | 0.00 | 0.10 | 0.02 | 0.00 |
| 19.82 | 2.00 | 0.00 | 0.09 | 0.02 | 0.00 | 19.84 | 2.00 | 0.00 | 0.08 | 0.02 | 0.00 |
| 19.86 | 2.00 | 0.00 | 0.07 | 0.02 | 0.00 | 19.88 | 2.00 | 0.00 | 0.06 | 0.02 | 0.00 |
| 19.90 | 2.00 | 0.00 | 0.05 | 0.02 | 0.00 | | | | | | |

Overall liquefaction potential: 1.48

LPI = 0.00 - Liquefaction risk very low
 LPI between 0.00 and 5.00 - Liquefaction risk low
 LPI between 5.00 and 15.00 - Liquefaction risk high
 LPI > 15.00 - Liquefaction risk very high

Abbreviations

FS: Calculated factor of safety for test point
 F_L: 1 - FS
 w_z: Function value of the extend of soil liquefaction according to depth
 d_z: Layer thickness (m)
 LPI: Liquefaction potential index value for test point

LIQUEFACTION ANALYSIS REPORT

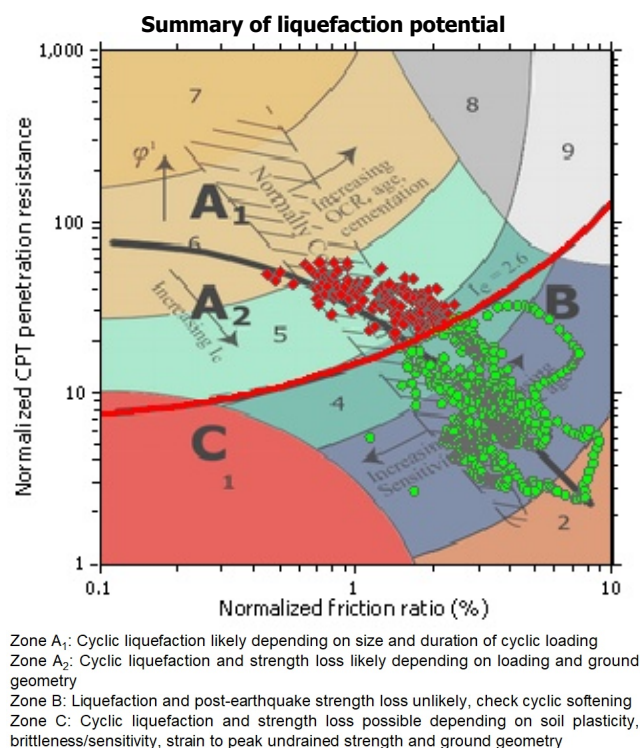
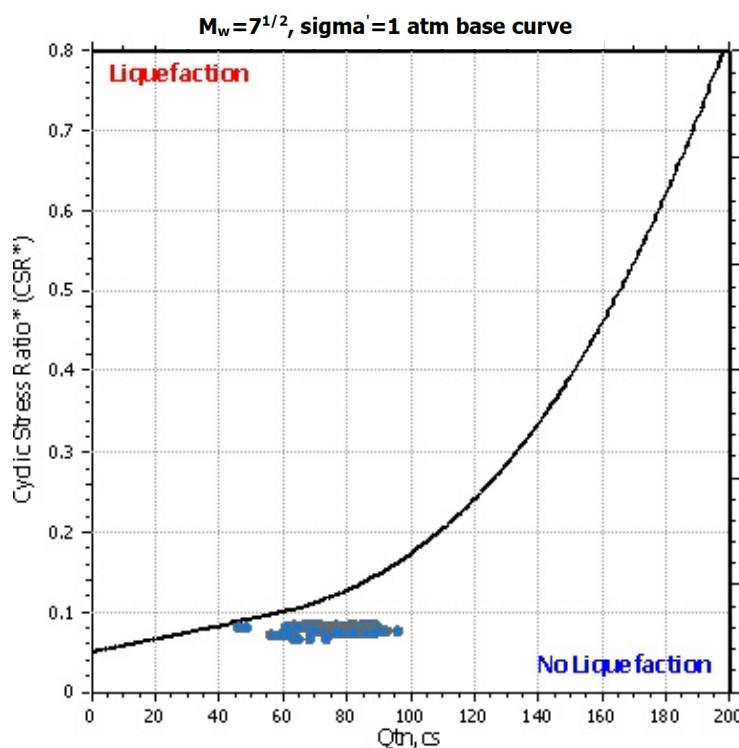
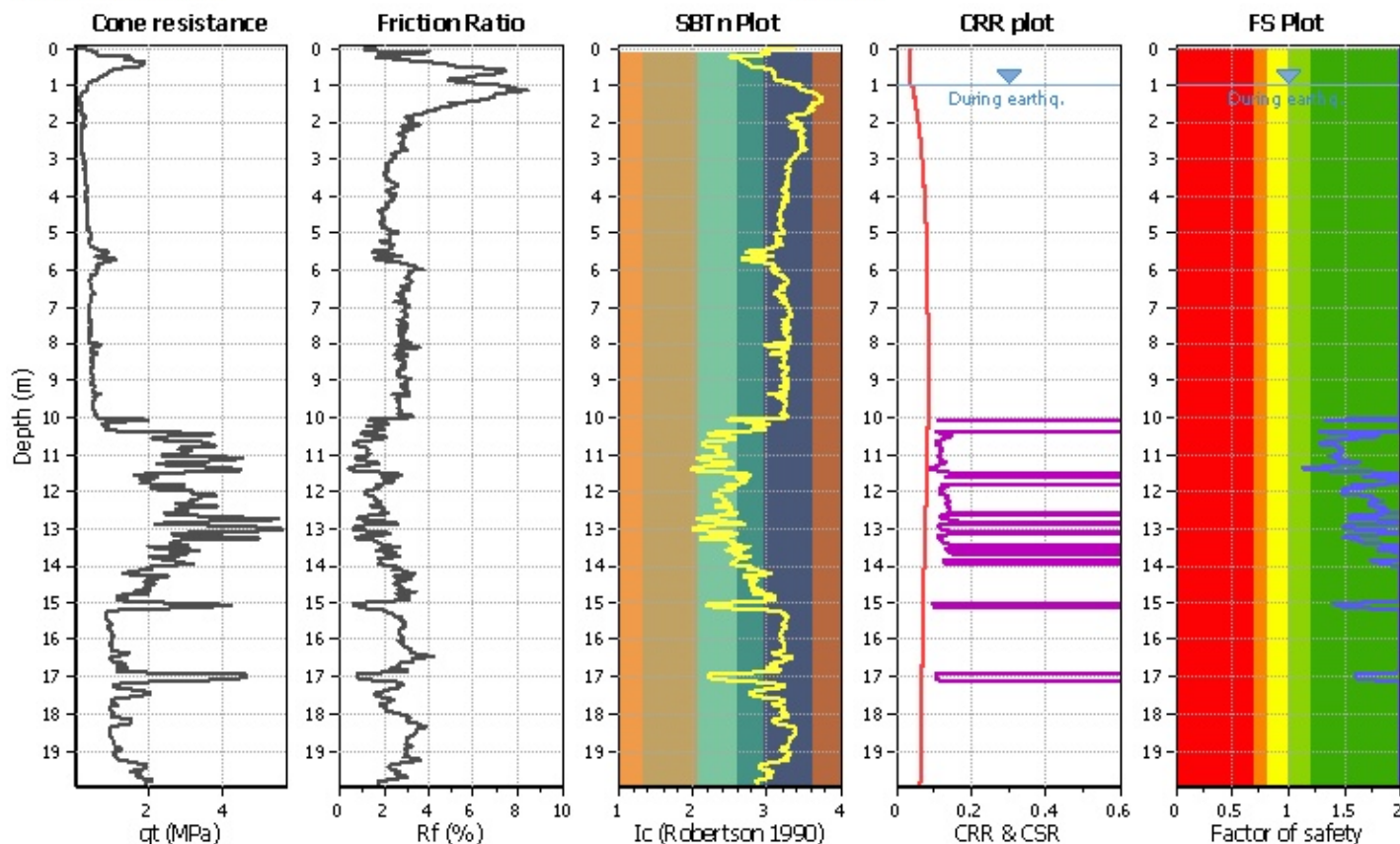
Project title :

Location :

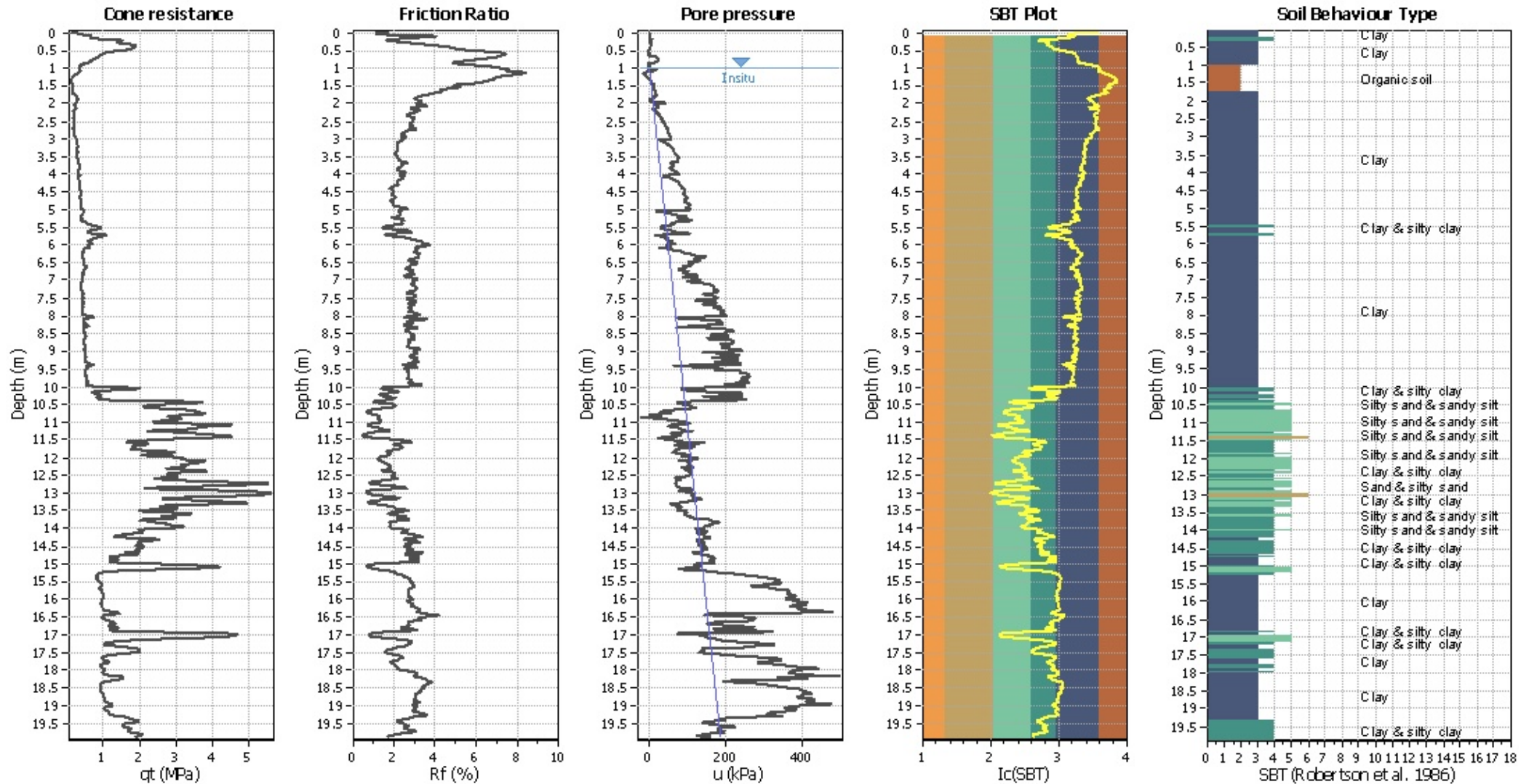
CPT file : CPTU3

Input parameters and analysis data

| | | | | | | | |
|------------------------------|-------------------|---------------------------|--------------|-------------------------|-----|----------------------|--------------|
| Analysis method: | NCEER (1998) | G.W.T. (in-situ): | 1.00 m | Use fill: | No | Clay like behavior | |
| Fines correction method: | NCEER (1998) | G.W.T. (earthq.): | 1.00 m | Fill height: | N/A | applied: | Sands only |
| Points to test: | Based on Ic value | Average results interval: | 3 | Fill weight: | N/A | Limit depth applied: | No |
| Earthquake magnitude M_w : | 5.00 | Ic cut-off value: | 2.60 | Trans. detect. applied: | No | Limit depth: | N/A |
| Peak ground acceleration: | 0.17 | Unit weight calculation: | Based on SBT | K_0 applied: | Yes | MSF method: | Method based |



CPT basic interpretation plo



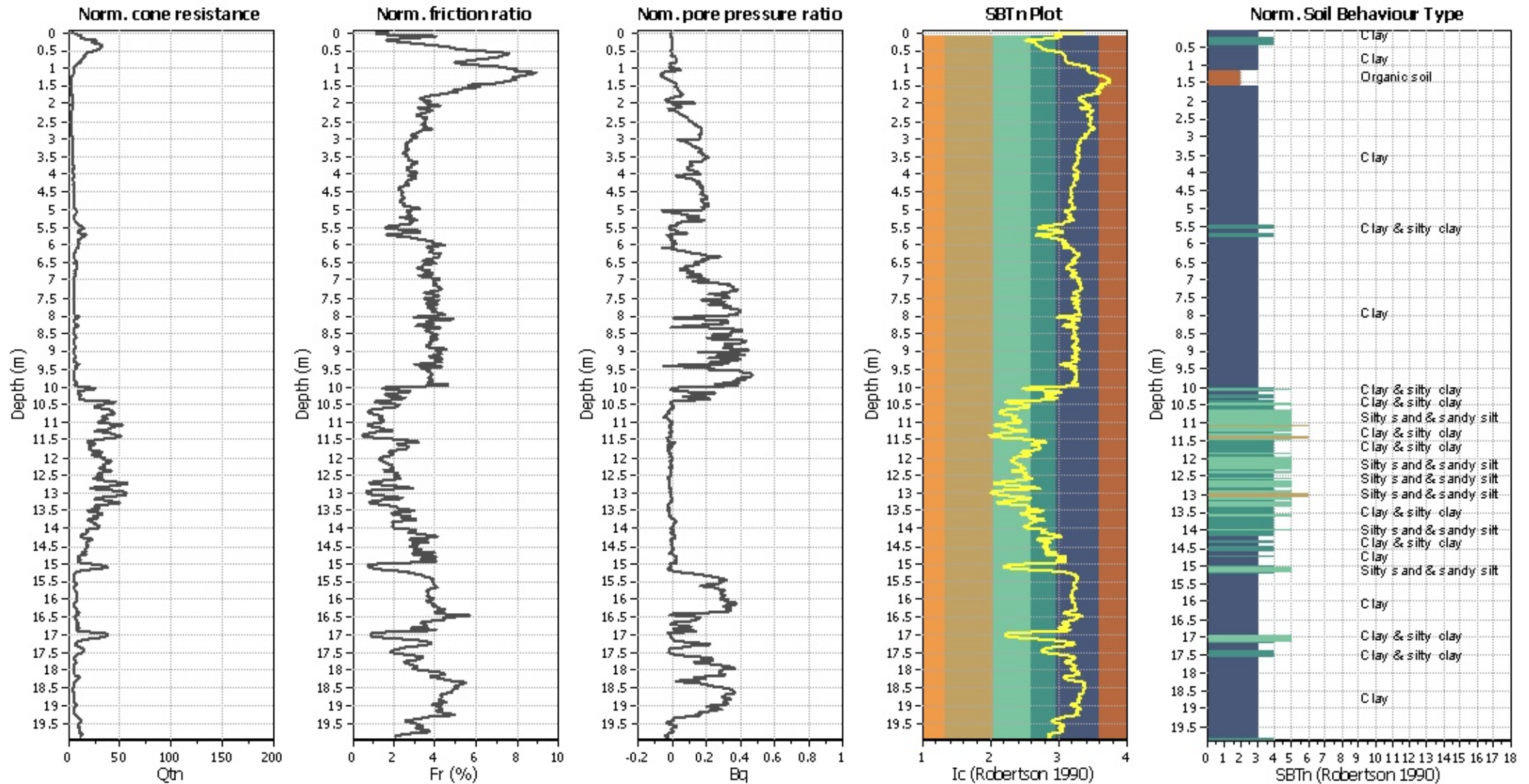
Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 5.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

SBT legend

| | | |
|---------------------------|-----------------------------|----------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty | 7. Gravely sand to sand |
| 2. Organic material | 5. Silty sand to sandy silt | 8. Very stiff sand to |
| 3. Clay to silty clay | 6. Clean sand to silty sand | 9. Very stiff fine grained |

CPT basic interpretation plots (normaliz



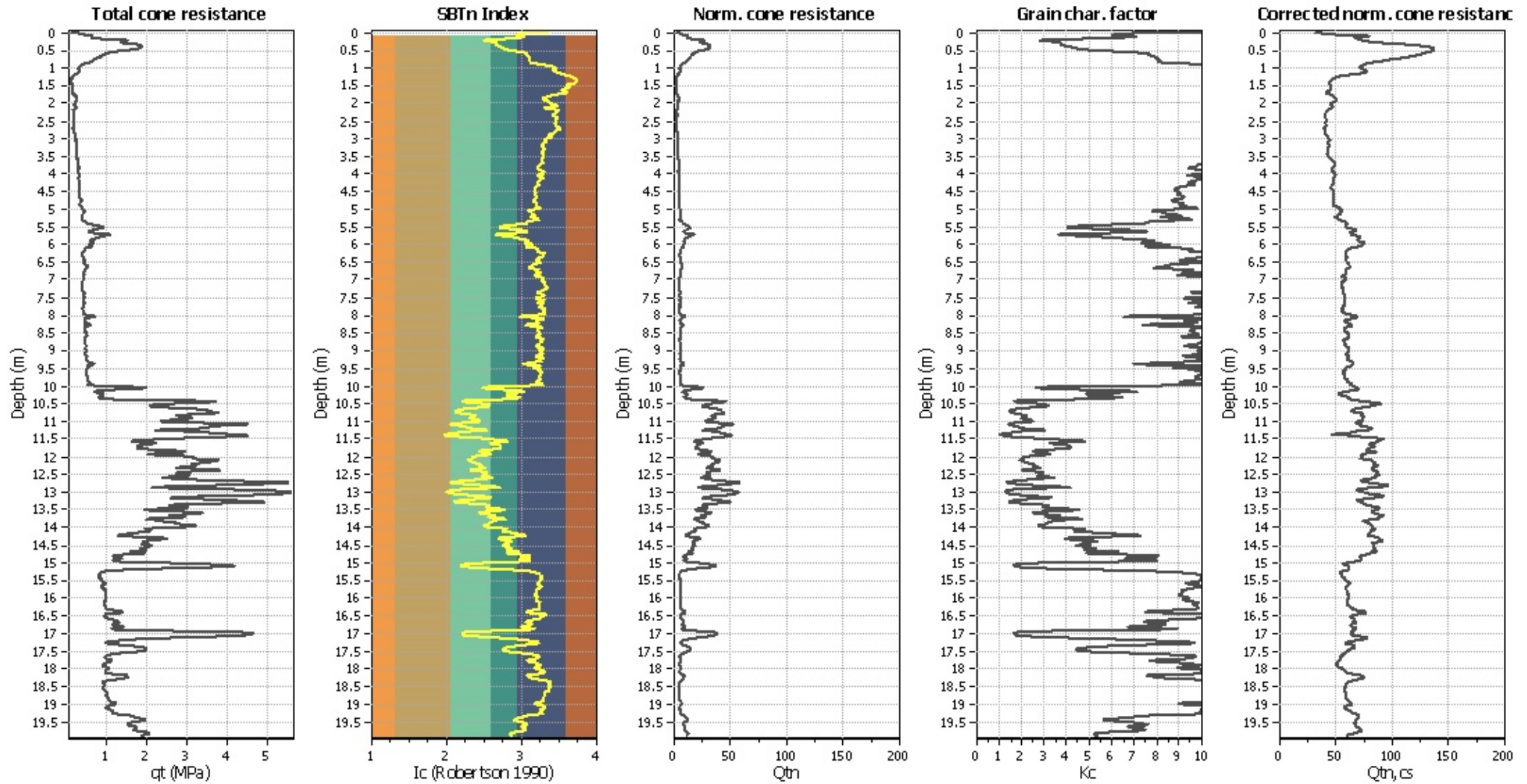
Input parameters and analysis data

| | | | | | |
|---------------------------------------|-------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K ₀ applied: | Yes |
| Earthquake magnitude M _w : | 5.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

SBTn legend

| | | |
|---------------------------|-----------------------------|----------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty | 7. Gravely sand to sand |
| 2. Organic material | 5. Silty sand to sandy silt | 8. Very stiff sand to |
| 3. Clay to silty clay | 6. Clean sand to silty sand | 9. Very stiff fine grained |

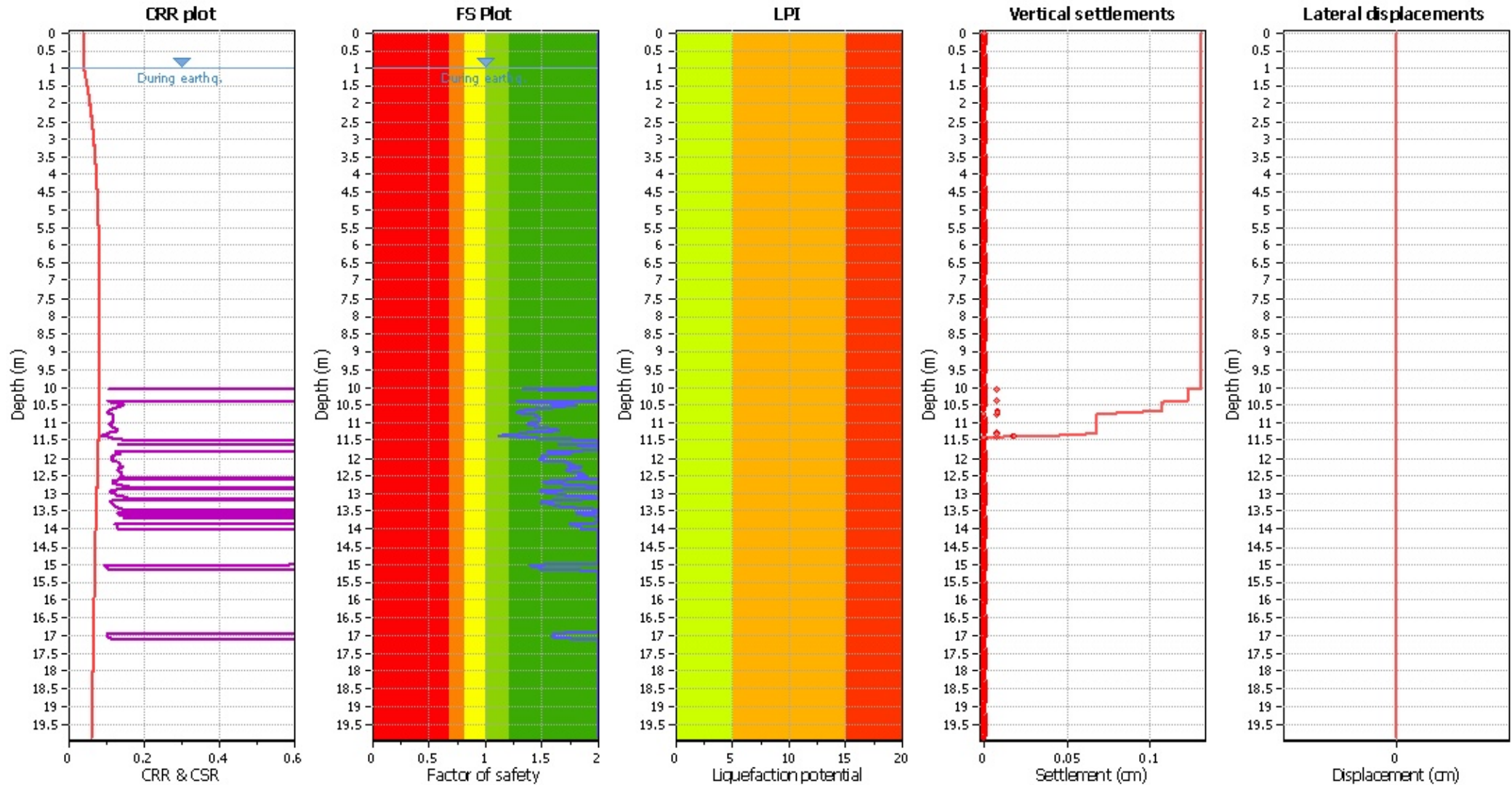
Liquefaction analysis overall plots (intermediate res)



Input parameters and analysis data

| | | | | | |
|---------------------------------------|-------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K ₀ applied: | Yes |
| Earthquake magnitude M _w : | 5.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

Liquefaction analysis overall plot



Input parameters and analysis data

| | | | | | |
|--------------------------------|-------------------|---------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (earthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 5.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

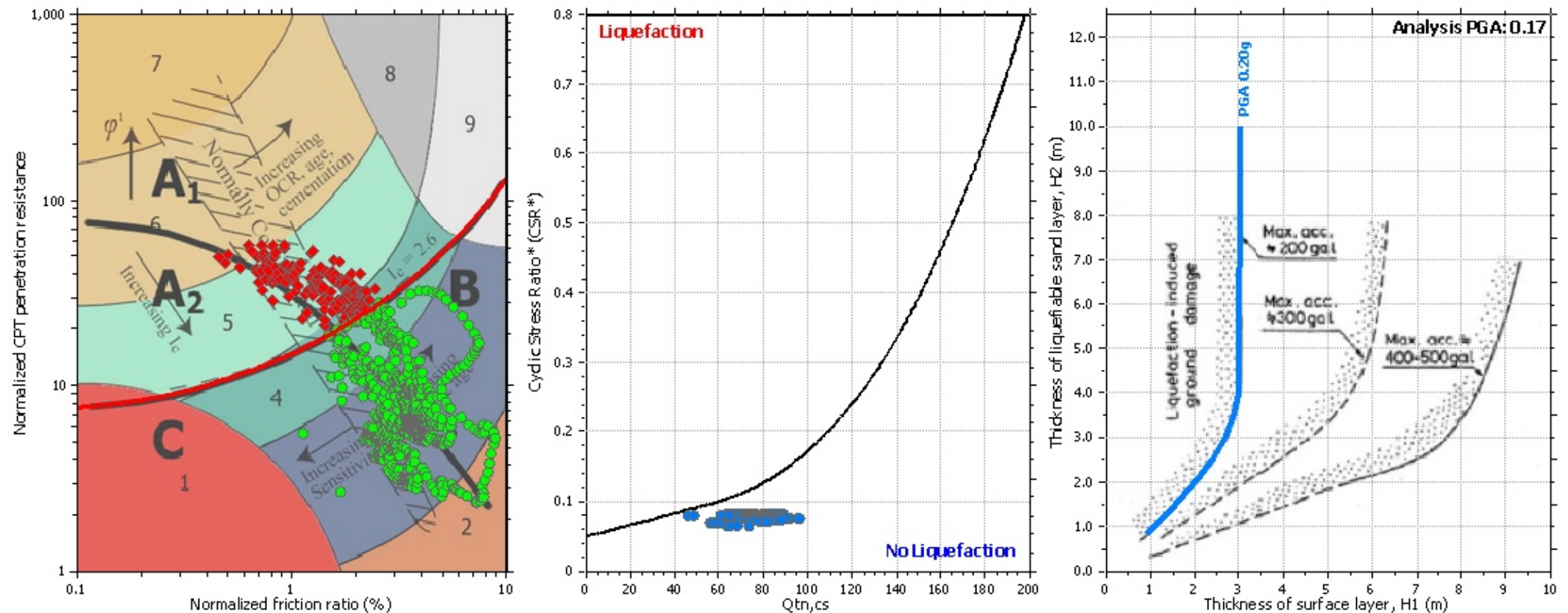
F.S. color scheme

| | |
|---|---|
| ■ | Almost certain it will liquefy |
| ■ | Very likely to liquefy |
| ■ | Liquefaction and no liq. are equally likely |
| ■ | Unlike to liquefy |
| ■ | Almost certain it will not liquefy |

LPI color scheme

| | |
|---------------------------------------|----------------|
| ■ | Very high risk |
| ■ | High risk |
| ■ | Low risk |

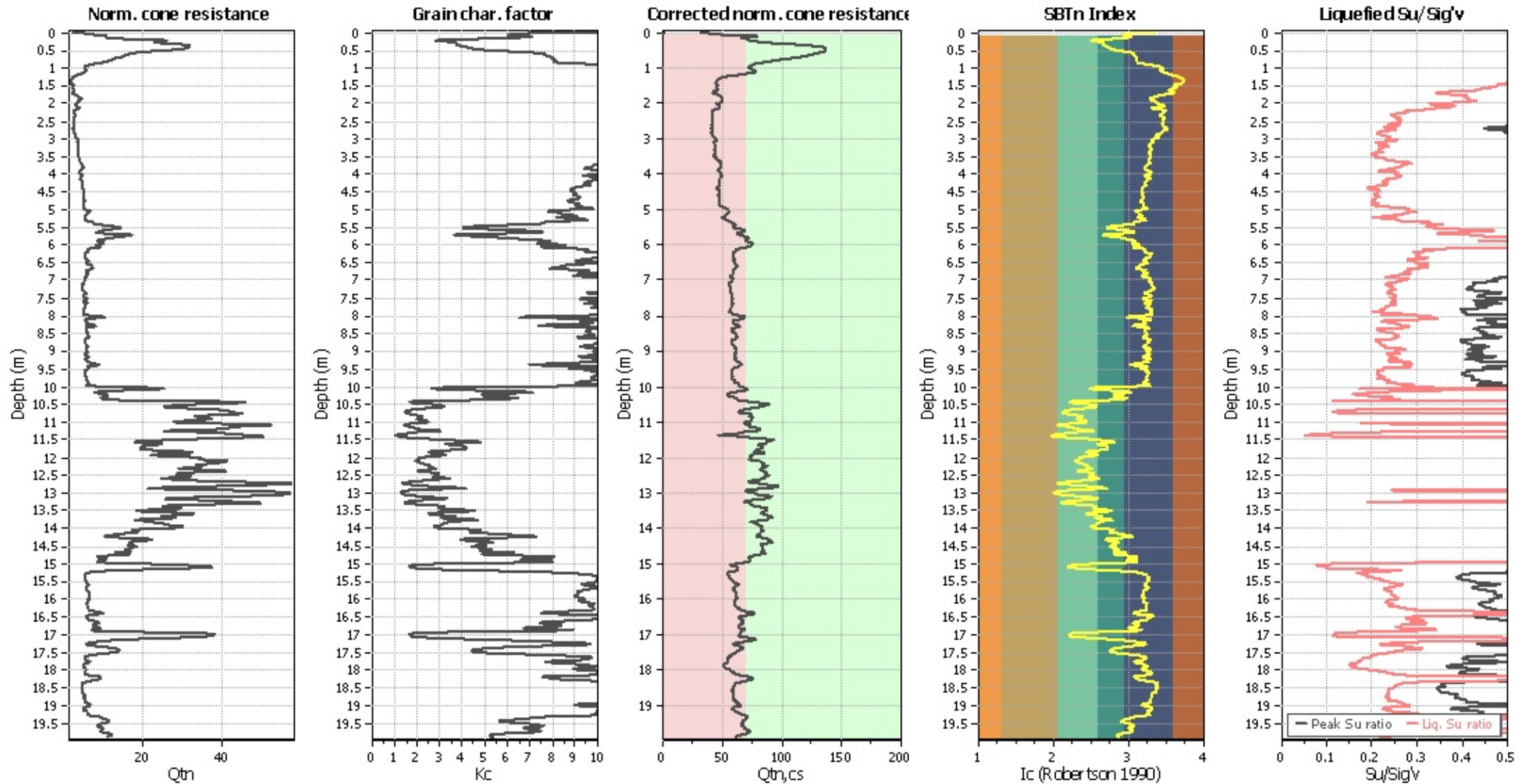
Liquefaction analysis summary plo



Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 5.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

Check for strength loss plots (Robertson (2010))



Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 5.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

| :: Liquefaction Potential Index calculation data :: | | | | | | | | | | | |
|---|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
| 0.02 | 2.00 | 0.00 | 9.99 | 0.02 | 0.00 | 0.04 | 2.00 | 0.00 | 9.98 | 0.02 | 0.00 |
| 0.06 | 2.00 | 0.00 | 9.97 | 0.02 | 0.00 | 0.08 | 2.00 | 0.00 | 9.96 | 0.02 | 0.00 |
| 0.10 | 2.00 | 0.00 | 9.95 | 0.02 | 0.00 | 0.12 | 2.00 | 0.00 | 9.94 | 0.02 | 0.00 |
| 0.14 | 2.00 | 0.00 | 9.93 | 0.02 | 0.00 | 0.16 | 2.00 | 0.00 | 9.92 | 0.02 | 0.00 |
| 0.18 | 2.00 | 0.00 | 9.91 | 0.02 | 0.00 | 0.20 | 2.00 | 0.00 | 9.90 | 0.02 | 0.00 |
| 0.22 | 2.00 | 0.00 | 9.89 | 0.02 | 0.00 | 0.24 | 2.00 | 0.00 | 9.88 | 0.02 | 0.00 |
| 0.26 | 2.00 | 0.00 | 9.87 | 0.02 | 0.00 | 0.28 | 2.00 | 0.00 | 9.86 | 0.02 | 0.00 |
| 0.30 | 2.00 | 0.00 | 9.85 | 0.02 | 0.00 | 0.32 | 2.00 | 0.00 | 9.84 | 0.02 | 0.00 |
| 0.34 | 2.00 | 0.00 | 9.83 | 0.02 | 0.00 | 0.36 | 2.00 | 0.00 | 9.82 | 0.02 | 0.00 |
| 0.38 | 2.00 | 0.00 | 9.81 | 0.02 | 0.00 | 0.40 | 2.00 | 0.00 | 9.80 | 0.02 | 0.00 |
| 0.42 | 2.00 | 0.00 | 9.79 | 0.02 | 0.00 | 0.44 | 2.00 | 0.00 | 9.78 | 0.02 | 0.00 |
| 0.46 | 2.00 | 0.00 | 9.77 | 0.02 | 0.00 | 0.48 | 2.00 | 0.00 | 9.76 | 0.02 | 0.00 |
| 0.50 | 2.00 | 0.00 | 9.75 | 0.02 | 0.00 | 0.52 | 2.00 | 0.00 | 9.74 | 0.02 | 0.00 |
| 0.54 | 2.00 | 0.00 | 9.73 | 0.02 | 0.00 | 0.56 | 2.00 | 0.00 | 9.72 | 0.02 | 0.00 |
| 0.58 | 2.00 | 0.00 | 9.71 | 0.02 | 0.00 | 0.60 | 2.00 | 0.00 | 9.70 | 0.02 | 0.00 |
| 0.62 | 2.00 | 0.00 | 9.69 | 0.02 | 0.00 | 0.64 | 2.00 | 0.00 | 9.68 | 0.02 | 0.00 |
| 0.66 | 2.00 | 0.00 | 9.67 | 0.02 | 0.00 | 0.68 | 2.00 | 0.00 | 9.66 | 0.02 | 0.00 |
| 0.70 | 2.00 | 0.00 | 9.65 | 0.02 | 0.00 | 0.72 | 2.00 | 0.00 | 9.64 | 0.02 | 0.00 |
| 0.74 | 2.00 | 0.00 | 9.63 | 0.02 | 0.00 | 0.76 | 2.00 | 0.00 | 9.62 | 0.02 | 0.00 |
| 0.78 | 2.00 | 0.00 | 9.61 | 0.02 | 0.00 | 0.80 | 2.00 | 0.00 | 9.60 | 0.02 | 0.00 |
| 0.82 | 2.00 | 0.00 | 9.59 | 0.02 | 0.00 | 0.84 | 2.00 | 0.00 | 9.58 | 0.02 | 0.00 |
| 0.86 | 2.00 | 0.00 | 9.57 | 0.02 | 0.00 | 0.88 | 2.00 | 0.00 | 9.56 | 0.02 | 0.00 |
| 0.90 | 2.00 | 0.00 | 9.55 | 0.02 | 0.00 | 0.92 | 2.00 | 0.00 | 9.54 | 0.02 | 0.00 |
| 0.94 | 2.00 | 0.00 | 9.53 | 0.02 | 0.00 | 0.96 | 2.00 | 0.00 | 9.52 | 0.02 | 0.00 |
| 0.98 | 2.00 | 0.00 | 9.51 | 0.02 | 0.00 | 1.00 | 2.00 | 0.00 | 9.50 | 0.02 | 0.00 |
| 1.02 | 2.00 | 0.00 | 9.49 | 0.02 | 0.00 | 1.04 | 2.00 | 0.00 | 9.48 | 0.02 | 0.00 |
| 1.06 | 2.00 | 0.00 | 9.47 | 0.02 | 0.00 | 1.08 | 2.00 | 0.00 | 9.46 | 0.02 | 0.00 |
| 1.10 | 2.00 | 0.00 | 9.45 | 0.02 | 0.00 | 1.12 | 2.00 | 0.00 | 9.44 | 0.02 | 0.00 |
| 1.14 | 2.00 | 0.00 | 9.43 | 0.02 | 0.00 | 1.16 | 2.00 | 0.00 | 9.42 | 0.02 | 0.00 |
| 1.18 | 2.00 | 0.00 | 9.41 | 0.02 | 0.00 | 1.20 | 2.00 | 0.00 | 9.40 | 0.02 | 0.00 |
| 1.22 | 2.00 | 0.00 | 9.39 | 0.02 | 0.00 | 1.24 | 2.00 | 0.00 | 9.38 | 0.02 | 0.00 |
| 1.26 | 2.00 | 0.00 | 9.37 | 0.02 | 0.00 | 1.28 | 2.00 | 0.00 | 9.36 | 0.02 | 0.00 |
| 1.30 | 2.00 | 0.00 | 9.35 | 0.02 | 0.00 | 1.32 | 2.00 | 0.00 | 9.34 | 0.02 | 0.00 |
| 1.34 | 2.00 | 0.00 | 9.33 | 0.02 | 0.00 | 1.36 | 2.00 | 0.00 | 9.32 | 0.02 | 0.00 |
| 1.38 | 2.00 | 0.00 | 9.31 | 0.02 | 0.00 | 1.40 | 2.00 | 0.00 | 9.30 | 0.02 | 0.00 |
| 1.42 | 2.00 | 0.00 | 9.29 | 0.02 | 0.00 | 1.44 | 2.00 | 0.00 | 9.28 | 0.02 | 0.00 |
| 1.46 | 2.00 | 0.00 | 9.27 | 0.02 | 0.00 | 1.48 | 2.00 | 0.00 | 9.26 | 0.02 | 0.00 |
| 1.50 | 2.00 | 0.00 | 9.25 | 0.02 | 0.00 | 1.52 | 2.00 | 0.00 | 9.24 | 0.02 | 0.00 |
| 1.54 | 2.00 | 0.00 | 9.23 | 0.02 | 0.00 | 1.56 | 2.00 | 0.00 | 9.22 | 0.02 | 0.00 |
| 1.58 | 2.00 | 0.00 | 9.21 | 0.02 | 0.00 | 1.60 | 2.00 | 0.00 | 9.20 | 0.02 | 0.00 |
| 1.62 | 2.00 | 0.00 | 9.19 | 0.02 | 0.00 | 1.64 | 2.00 | 0.00 | 9.18 | 0.02 | 0.00 |
| 1.66 | 2.00 | 0.00 | 9.17 | 0.02 | 0.00 | 1.68 | 2.00 | 0.00 | 9.16 | 0.02 | 0.00 |
| 1.70 | 2.00 | 0.00 | 9.15 | 0.02 | 0.00 | 1.72 | 2.00 | 0.00 | 9.14 | 0.02 | 0.00 |
| 1.74 | 2.00 | 0.00 | 9.13 | 0.02 | 0.00 | 1.76 | 2.00 | 0.00 | 9.12 | 0.02 | 0.00 |
| 1.78 | 2.00 | 0.00 | 9.11 | 0.02 | 0.00 | 1.80 | 2.00 | 0.00 | 9.10 | 0.02 | 0.00 |
| 1.82 | 2.00 | 0.00 | 9.09 | 0.02 | 0.00 | 1.84 | 2.00 | 0.00 | 9.08 | 0.02 | 0.00 |
| 1.86 | 2.00 | 0.00 | 9.07 | 0.02 | 0.00 | 1.88 | 2.00 | 0.00 | 9.06 | 0.02 | 0.00 |
| 1.90 | 2.00 | 0.00 | 9.05 | 0.02 | 0.00 | 1.92 | 2.00 | 0.00 | 9.04 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 1.94 | 2.00 | 0.00 | 9.03 | 0.02 | 0.00 | 1.96 | 2.00 | 0.00 | 9.02 | 0.02 | 0.00 |
| 1.98 | 2.00 | 0.00 | 9.01 | 0.02 | 0.00 | 2.00 | 2.00 | 0.00 | 9.00 | 0.02 | 0.00 |
| 2.02 | 2.00 | 0.00 | 8.99 | 0.02 | 0.00 | 2.04 | 2.00 | 0.00 | 8.98 | 0.02 | 0.00 |
| 2.06 | 2.00 | 0.00 | 8.97 | 0.02 | 0.00 | 2.08 | 2.00 | 0.00 | 8.96 | 0.02 | 0.00 |
| 2.10 | 2.00 | 0.00 | 8.95 | 0.02 | 0.00 | 2.12 | 2.00 | 0.00 | 8.94 | 0.02 | 0.00 |
| 2.14 | 2.00 | 0.00 | 8.93 | 0.02 | 0.00 | 2.16 | 2.00 | 0.00 | 8.92 | 0.02 | 0.00 |
| 2.18 | 2.00 | 0.00 | 8.91 | 0.02 | 0.00 | 2.20 | 2.00 | 0.00 | 8.90 | 0.02 | 0.00 |
| 2.22 | 2.00 | 0.00 | 8.89 | 0.02 | 0.00 | 2.24 | 2.00 | 0.00 | 8.88 | 0.02 | 0.00 |
| 2.26 | 2.00 | 0.00 | 8.87 | 0.02 | 0.00 | 2.28 | 2.00 | 0.00 | 8.86 | 0.02 | 0.00 |
| 2.30 | 2.00 | 0.00 | 8.85 | 0.02 | 0.00 | 2.32 | 2.00 | 0.00 | 8.84 | 0.02 | 0.00 |
| 2.34 | 2.00 | 0.00 | 8.83 | 0.02 | 0.00 | 2.36 | 2.00 | 0.00 | 8.82 | 0.02 | 0.00 |
| 2.38 | 2.00 | 0.00 | 8.81 | 0.02 | 0.00 | 2.40 | 2.00 | 0.00 | 8.80 | 0.02 | 0.00 |
| 2.42 | 2.00 | 0.00 | 8.79 | 0.02 | 0.00 | 2.44 | 2.00 | 0.00 | 8.78 | 0.02 | 0.00 |
| 2.46 | 2.00 | 0.00 | 8.77 | 0.02 | 0.00 | 2.48 | 2.00 | 0.00 | 8.76 | 0.02 | 0.00 |
| 2.50 | 2.00 | 0.00 | 8.75 | 0.02 | 0.00 | 2.52 | 2.00 | 0.00 | 8.74 | 0.02 | 0.00 |
| 2.54 | 2.00 | 0.00 | 8.73 | 0.02 | 0.00 | 2.56 | 2.00 | 0.00 | 8.72 | 0.02 | 0.00 |
| 2.58 | 2.00 | 0.00 | 8.71 | 0.02 | 0.00 | 2.60 | 2.00 | 0.00 | 8.70 | 0.02 | 0.00 |
| 2.62 | 2.00 | 0.00 | 8.69 | 0.02 | 0.00 | 2.64 | 2.00 | 0.00 | 8.68 | 0.02 | 0.00 |
| 2.66 | 2.00 | 0.00 | 8.67 | 0.02 | 0.00 | 2.68 | 2.00 | 0.00 | 8.66 | 0.02 | 0.00 |
| 2.70 | 2.00 | 0.00 | 8.65 | 0.02 | 0.00 | 2.72 | 2.00 | 0.00 | 8.64 | 0.02 | 0.00 |
| 2.74 | 2.00 | 0.00 | 8.63 | 0.02 | 0.00 | 2.76 | 2.00 | 0.00 | 8.62 | 0.02 | 0.00 |
| 2.78 | 2.00 | 0.00 | 8.61 | 0.02 | 0.00 | 2.80 | 2.00 | 0.00 | 8.60 | 0.02 | 0.00 |
| 2.82 | 2.00 | 0.00 | 8.59 | 0.02 | 0.00 | 2.84 | 2.00 | 0.00 | 8.58 | 0.02 | 0.00 |
| 2.86 | 2.00 | 0.00 | 8.57 | 0.02 | 0.00 | 2.88 | 2.00 | 0.00 | 8.56 | 0.02 | 0.00 |
| 2.90 | 2.00 | 0.00 | 8.55 | 0.02 | 0.00 | 2.92 | 2.00 | 0.00 | 8.54 | 0.02 | 0.00 |
| 2.94 | 2.00 | 0.00 | 8.53 | 0.02 | 0.00 | 2.96 | 2.00 | 0.00 | 8.52 | 0.02 | 0.00 |
| 2.98 | 2.00 | 0.00 | 8.51 | 0.02 | 0.00 | 3.00 | 2.00 | 0.00 | 8.50 | 0.02 | 0.00 |
| 3.02 | 2.00 | 0.00 | 8.49 | 0.02 | 0.00 | 3.04 | 2.00 | 0.00 | 8.48 | 0.02 | 0.00 |
| 3.06 | 2.00 | 0.00 | 8.47 | 0.02 | 0.00 | 3.08 | 2.00 | 0.00 | 8.46 | 0.02 | 0.00 |
| 3.10 | 2.00 | 0.00 | 8.45 | 0.02 | 0.00 | 3.12 | 2.00 | 0.00 | 8.44 | 0.02 | 0.00 |
| 3.14 | 2.00 | 0.00 | 8.43 | 0.02 | 0.00 | 3.16 | 2.00 | 0.00 | 8.42 | 0.02 | 0.00 |
| 3.18 | 2.00 | 0.00 | 8.41 | 0.02 | 0.00 | 3.20 | 2.00 | 0.00 | 8.40 | 0.02 | 0.00 |
| 3.22 | 2.00 | 0.00 | 8.39 | 0.02 | 0.00 | 3.24 | 2.00 | 0.00 | 8.38 | 0.02 | 0.00 |
| 3.26 | 2.00 | 0.00 | 8.37 | 0.02 | 0.00 | 3.28 | 2.00 | 0.00 | 8.36 | 0.02 | 0.00 |
| 3.30 | 2.00 | 0.00 | 8.35 | 0.02 | 0.00 | 3.32 | 2.00 | 0.00 | 8.34 | 0.02 | 0.00 |
| 3.34 | 2.00 | 0.00 | 8.33 | 0.02 | 0.00 | 3.36 | 2.00 | 0.00 | 8.32 | 0.02 | 0.00 |
| 3.38 | 2.00 | 0.00 | 8.31 | 0.02 | 0.00 | 3.40 | 2.00 | 0.00 | 8.30 | 0.02 | 0.00 |
| 3.42 | 2.00 | 0.00 | 8.29 | 0.02 | 0.00 | 3.44 | 2.00 | 0.00 | 8.28 | 0.02 | 0.00 |
| 3.46 | 2.00 | 0.00 | 8.27 | 0.02 | 0.00 | 3.48 | 2.00 | 0.00 | 8.26 | 0.02 | 0.00 |
| 3.50 | 2.00 | 0.00 | 8.25 | 0.02 | 0.00 | 3.52 | 2.00 | 0.00 | 8.24 | 0.02 | 0.00 |
| 3.54 | 2.00 | 0.00 | 8.23 | 0.02 | 0.00 | 3.56 | 2.00 | 0.00 | 8.22 | 0.02 | 0.00 |
| 3.58 | 2.00 | 0.00 | 8.21 | 0.02 | 0.00 | 3.60 | 2.00 | 0.00 | 8.20 | 0.02 | 0.00 |
| 3.62 | 2.00 | 0.00 | 8.19 | 0.02 | 0.00 | 3.64 | 2.00 | 0.00 | 8.18 | 0.02 | 0.00 |
| 3.66 | 2.00 | 0.00 | 8.17 | 0.02 | 0.00 | 3.68 | 2.00 | 0.00 | 8.16 | 0.02 | 0.00 |
| 3.70 | 2.00 | 0.00 | 8.15 | 0.02 | 0.00 | 3.72 | 2.00 | 0.00 | 8.14 | 0.02 | 0.00 |
| 3.74 | 2.00 | 0.00 | 8.13 | 0.02 | 0.00 | 3.76 | 2.00 | 0.00 | 8.12 | 0.02 | 0.00 |
| 3.78 | 2.00 | 0.00 | 8.11 | 0.02 | 0.00 | 3.80 | 2.00 | 0.00 | 8.10 | 0.02 | 0.00 |
| 3.82 | 2.00 | 0.00 | 8.09 | 0.02 | 0.00 | 3.84 | 2.00 | 0.00 | 8.08 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 3.86 | 2.00 | 0.00 | 8.07 | 0.02 | 0.00 | 3.88 | 2.00 | 0.00 | 8.06 | 0.02 | 0.00 |
| 3.90 | 2.00 | 0.00 | 8.05 | 0.02 | 0.00 | 3.92 | 2.00 | 0.00 | 8.04 | 0.02 | 0.00 |
| 3.94 | 2.00 | 0.00 | 8.03 | 0.02 | 0.00 | 3.96 | 2.00 | 0.00 | 8.02 | 0.02 | 0.00 |
| 3.98 | 2.00 | 0.00 | 8.01 | 0.02 | 0.00 | 4.00 | 2.00 | 0.00 | 8.00 | 0.02 | 0.00 |
| 4.02 | 2.00 | 0.00 | 7.99 | 0.02 | 0.00 | 4.04 | 2.00 | 0.00 | 7.98 | 0.02 | 0.00 |
| 4.06 | 2.00 | 0.00 | 7.97 | 0.02 | 0.00 | 4.08 | 2.00 | 0.00 | 7.96 | 0.02 | 0.00 |
| 4.10 | 2.00 | 0.00 | 7.95 | 0.02 | 0.00 | 4.12 | 2.00 | 0.00 | 7.94 | 0.02 | 0.00 |
| 4.14 | 2.00 | 0.00 | 7.93 | 0.02 | 0.00 | 4.16 | 2.00 | 0.00 | 7.92 | 0.02 | 0.00 |
| 4.18 | 2.00 | 0.00 | 7.91 | 0.02 | 0.00 | 4.20 | 2.00 | 0.00 | 7.90 | 0.02 | 0.00 |
| 4.22 | 2.00 | 0.00 | 7.89 | 0.02 | 0.00 | 4.24 | 2.00 | 0.00 | 7.88 | 0.02 | 0.00 |
| 4.26 | 2.00 | 0.00 | 7.87 | 0.02 | 0.00 | 4.28 | 2.00 | 0.00 | 7.86 | 0.02 | 0.00 |
| 4.30 | 2.00 | 0.00 | 7.85 | 0.02 | 0.00 | 4.32 | 2.00 | 0.00 | 7.84 | 0.02 | 0.00 |
| 4.34 | 2.00 | 0.00 | 7.83 | 0.02 | 0.00 | 4.36 | 2.00 | 0.00 | 7.82 | 0.02 | 0.00 |
| 4.38 | 2.00 | 0.00 | 7.81 | 0.02 | 0.00 | 4.40 | 2.00 | 0.00 | 7.80 | 0.02 | 0.00 |
| 4.42 | 2.00 | 0.00 | 7.79 | 0.02 | 0.00 | 4.44 | 2.00 | 0.00 | 7.78 | 0.02 | 0.00 |
| 4.46 | 2.00 | 0.00 | 7.77 | 0.02 | 0.00 | 4.48 | 2.00 | 0.00 | 7.76 | 0.02 | 0.00 |
| 4.50 | 2.00 | 0.00 | 7.75 | 0.02 | 0.00 | 4.52 | 2.00 | 0.00 | 7.74 | 0.02 | 0.00 |
| 4.54 | 2.00 | 0.00 | 7.73 | 0.02 | 0.00 | 4.56 | 2.00 | 0.00 | 7.72 | 0.02 | 0.00 |
| 4.58 | 2.00 | 0.00 | 7.71 | 0.02 | 0.00 | 4.60 | 2.00 | 0.00 | 7.70 | 0.02 | 0.00 |
| 4.62 | 2.00 | 0.00 | 7.69 | 0.02 | 0.00 | 4.64 | 2.00 | 0.00 | 7.68 | 0.02 | 0.00 |
| 4.66 | 2.00 | 0.00 | 7.67 | 0.02 | 0.00 | 4.68 | 2.00 | 0.00 | 7.66 | 0.02 | 0.00 |
| 4.70 | 2.00 | 0.00 | 7.65 | 0.02 | 0.00 | 4.72 | 2.00 | 0.00 | 7.64 | 0.02 | 0.00 |
| 4.74 | 2.00 | 0.00 | 7.63 | 0.02 | 0.00 | 4.76 | 2.00 | 0.00 | 7.62 | 0.02 | 0.00 |
| 4.78 | 2.00 | 0.00 | 7.61 | 0.02 | 0.00 | 4.80 | 2.00 | 0.00 | 7.60 | 0.02 | 0.00 |
| 4.82 | 2.00 | 0.00 | 7.59 | 0.02 | 0.00 | 4.84 | 2.00 | 0.00 | 7.58 | 0.02 | 0.00 |
| 4.86 | 2.00 | 0.00 | 7.57 | 0.02 | 0.00 | 4.88 | 2.00 | 0.00 | 7.56 | 0.02 | 0.00 |
| 4.90 | 2.00 | 0.00 | 7.55 | 0.02 | 0.00 | 4.92 | 2.00 | 0.00 | 7.54 | 0.02 | 0.00 |
| 4.94 | 2.00 | 0.00 | 7.53 | 0.02 | 0.00 | 4.96 | 2.00 | 0.00 | 7.52 | 0.02 | 0.00 |
| 4.98 | 2.00 | 0.00 | 7.51 | 0.02 | 0.00 | 5.00 | 2.00 | 0.00 | 7.50 | 0.02 | 0.00 |
| 5.02 | 2.00 | 0.00 | 7.49 | 0.02 | 0.00 | 5.04 | 2.00 | 0.00 | 7.48 | 0.02 | 0.00 |
| 5.06 | 2.00 | 0.00 | 7.47 | 0.02 | 0.00 | 5.08 | 2.00 | 0.00 | 7.46 | 0.02 | 0.00 |
| 5.10 | 2.00 | 0.00 | 7.45 | 0.02 | 0.00 | 5.12 | 2.00 | 0.00 | 7.44 | 0.02 | 0.00 |
| 5.14 | 2.00 | 0.00 | 7.43 | 0.02 | 0.00 | 5.16 | 2.00 | 0.00 | 7.42 | 0.02 | 0.00 |
| 5.18 | 2.00 | 0.00 | 7.41 | 0.02 | 0.00 | 5.20 | 2.00 | 0.00 | 7.40 | 0.02 | 0.00 |
| 5.22 | 2.00 | 0.00 | 7.39 | 0.02 | 0.00 | 5.24 | 2.00 | 0.00 | 7.38 | 0.02 | 0.00 |
| 5.26 | 2.00 | 0.00 | 7.37 | 0.02 | 0.00 | 5.28 | 2.00 | 0.00 | 7.36 | 0.02 | 0.00 |
| 5.30 | 2.00 | 0.00 | 7.35 | 0.02 | 0.00 | 5.32 | 2.00 | 0.00 | 7.34 | 0.02 | 0.00 |
| 5.34 | 2.00 | 0.00 | 7.33 | 0.02 | 0.00 | 5.36 | 2.00 | 0.00 | 7.32 | 0.02 | 0.00 |
| 5.38 | 2.00 | 0.00 | 7.31 | 0.02 | 0.00 | 5.40 | 2.00 | 0.00 | 7.30 | 0.02 | 0.00 |
| 5.42 | 2.00 | 0.00 | 7.29 | 0.02 | 0.00 | 5.44 | 2.00 | 0.00 | 7.28 | 0.02 | 0.00 |
| 5.46 | 2.00 | 0.00 | 7.27 | 0.02 | 0.00 | 5.48 | 2.00 | 0.00 | 7.26 | 0.02 | 0.00 |
| 5.50 | 2.00 | 0.00 | 7.25 | 0.02 | 0.00 | 5.52 | 2.00 | 0.00 | 7.24 | 0.02 | 0.00 |
| 5.54 | 2.00 | 0.00 | 7.23 | 0.02 | 0.00 | 5.56 | 2.00 | 0.00 | 7.22 | 0.02 | 0.00 |
| 5.58 | 2.00 | 0.00 | 7.21 | 0.02 | 0.00 | 5.60 | 2.00 | 0.00 | 7.20 | 0.02 | 0.00 |
| 5.62 | 2.00 | 0.00 | 7.19 | 0.02 | 0.00 | 5.64 | 2.00 | 0.00 | 7.18 | 0.02 | 0.00 |
| 5.66 | 2.00 | 0.00 | 7.17 | 0.02 | 0.00 | 5.68 | 2.00 | 0.00 | 7.16 | 0.02 | 0.00 |
| 5.70 | 2.00 | 0.00 | 7.15 | 0.02 | 0.00 | 5.72 | 2.00 | 0.00 | 7.14 | 0.02 | 0.00 |
| 5.74 | 2.00 | 0.00 | 7.13 | 0.02 | 0.00 | 5.76 | 2.00 | 0.00 | 7.12 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 5.78 | 2.00 | 0.00 | 7.11 | 0.02 | 0.00 | 5.80 | 2.00 | 0.00 | 7.10 | 0.02 | 0.00 |
| 5.82 | 2.00 | 0.00 | 7.09 | 0.02 | 0.00 | 5.84 | 2.00 | 0.00 | 7.08 | 0.02 | 0.00 |
| 5.86 | 2.00 | 0.00 | 7.07 | 0.02 | 0.00 | 5.88 | 2.00 | 0.00 | 7.06 | 0.02 | 0.00 |
| 5.90 | 2.00 | 0.00 | 7.05 | 0.02 | 0.00 | 5.92 | 2.00 | 0.00 | 7.04 | 0.02 | 0.00 |
| 5.94 | 2.00 | 0.00 | 7.03 | 0.02 | 0.00 | 5.96 | 2.00 | 0.00 | 7.02 | 0.02 | 0.00 |
| 5.98 | 2.00 | 0.00 | 7.01 | 0.02 | 0.00 | 6.00 | 2.00 | 0.00 | 7.00 | 0.02 | 0.00 |
| 6.02 | 2.00 | 0.00 | 6.99 | 0.02 | 0.00 | 6.04 | 2.00 | 0.00 | 6.98 | 0.02 | 0.00 |
| 6.06 | 2.00 | 0.00 | 6.97 | 0.02 | 0.00 | 6.08 | 2.00 | 0.00 | 6.96 | 0.02 | 0.00 |
| 6.10 | 2.00 | 0.00 | 6.95 | 0.02 | 0.00 | 6.12 | 2.00 | 0.00 | 6.94 | 0.02 | 0.00 |
| 6.14 | 2.00 | 0.00 | 6.93 | 0.02 | 0.00 | 6.16 | 2.00 | 0.00 | 6.92 | 0.02 | 0.00 |
| 6.18 | 2.00 | 0.00 | 6.91 | 0.02 | 0.00 | 6.20 | 2.00 | 0.00 | 6.90 | 0.02 | 0.00 |
| 6.22 | 2.00 | 0.00 | 6.89 | 0.02 | 0.00 | 6.24 | 2.00 | 0.00 | 6.88 | 0.02 | 0.00 |
| 6.26 | 2.00 | 0.00 | 6.87 | 0.02 | 0.00 | 6.28 | 2.00 | 0.00 | 6.86 | 0.02 | 0.00 |
| 6.30 | 2.00 | 0.00 | 6.85 | 0.02 | 0.00 | 6.32 | 2.00 | 0.00 | 6.84 | 0.02 | 0.00 |
| 6.34 | 2.00 | 0.00 | 6.83 | 0.02 | 0.00 | 6.36 | 2.00 | 0.00 | 6.82 | 0.02 | 0.00 |
| 6.38 | 2.00 | 0.00 | 6.81 | 0.02 | 0.00 | 6.40 | 2.00 | 0.00 | 6.80 | 0.02 | 0.00 |
| 6.42 | 2.00 | 0.00 | 6.79 | 0.02 | 0.00 | 6.44 | 2.00 | 0.00 | 6.78 | 0.02 | 0.00 |
| 6.46 | 2.00 | 0.00 | 6.77 | 0.02 | 0.00 | 6.48 | 2.00 | 0.00 | 6.76 | 0.02 | 0.00 |
| 6.50 | 2.00 | 0.00 | 6.75 | 0.02 | 0.00 | 6.52 | 2.00 | 0.00 | 6.74 | 0.02 | 0.00 |
| 6.54 | 2.00 | 0.00 | 6.73 | 0.02 | 0.00 | 6.56 | 2.00 | 0.00 | 6.72 | 0.02 | 0.00 |
| 6.58 | 2.00 | 0.00 | 6.71 | 0.02 | 0.00 | 6.60 | 2.00 | 0.00 | 6.70 | 0.02 | 0.00 |
| 6.62 | 2.00 | 0.00 | 6.69 | 0.02 | 0.00 | 6.64 | 2.00 | 0.00 | 6.68 | 0.02 | 0.00 |
| 6.66 | 2.00 | 0.00 | 6.67 | 0.02 | 0.00 | 6.68 | 2.00 | 0.00 | 6.66 | 0.02 | 0.00 |
| 6.70 | 2.00 | 0.00 | 6.65 | 0.02 | 0.00 | 6.72 | 2.00 | 0.00 | 6.64 | 0.02 | 0.00 |
| 6.74 | 2.00 | 0.00 | 6.63 | 0.02 | 0.00 | 6.76 | 2.00 | 0.00 | 6.62 | 0.02 | 0.00 |
| 6.78 | 2.00 | 0.00 | 6.61 | 0.02 | 0.00 | 6.80 | 2.00 | 0.00 | 6.60 | 0.02 | 0.00 |
| 6.82 | 2.00 | 0.00 | 6.59 | 0.02 | 0.00 | 6.84 | 2.00 | 0.00 | 6.58 | 0.02 | 0.00 |
| 6.86 | 2.00 | 0.00 | 6.57 | 0.02 | 0.00 | 6.88 | 2.00 | 0.00 | 6.56 | 0.02 | 0.00 |
| 6.90 | 2.00 | 0.00 | 6.55 | 0.02 | 0.00 | 6.92 | 2.00 | 0.00 | 6.54 | 0.02 | 0.00 |
| 6.94 | 2.00 | 0.00 | 6.53 | 0.02 | 0.00 | 6.96 | 2.00 | 0.00 | 6.52 | 0.02 | 0.00 |
| 6.98 | 2.00 | 0.00 | 6.51 | 0.02 | 0.00 | 7.00 | 2.00 | 0.00 | 6.50 | 0.02 | 0.00 |
| 7.02 | 2.00 | 0.00 | 6.49 | 0.02 | 0.00 | 7.04 | 2.00 | 0.00 | 6.48 | 0.02 | 0.00 |
| 7.06 | 2.00 | 0.00 | 6.47 | 0.02 | 0.00 | 7.08 | 2.00 | 0.00 | 6.46 | 0.02 | 0.00 |
| 7.10 | 2.00 | 0.00 | 6.45 | 0.02 | 0.00 | 7.12 | 2.00 | 0.00 | 6.44 | 0.02 | 0.00 |
| 7.14 | 2.00 | 0.00 | 6.43 | 0.02 | 0.00 | 7.16 | 2.00 | 0.00 | 6.42 | 0.02 | 0.00 |
| 7.18 | 2.00 | 0.00 | 6.41 | 0.02 | 0.00 | 7.20 | 2.00 | 0.00 | 6.40 | 0.02 | 0.00 |
| 7.22 | 2.00 | 0.00 | 6.39 | 0.02 | 0.00 | 7.24 | 2.00 | 0.00 | 6.38 | 0.02 | 0.00 |
| 7.26 | 2.00 | 0.00 | 6.37 | 0.02 | 0.00 | 7.28 | 2.00 | 0.00 | 6.36 | 0.02 | 0.00 |
| 7.30 | 2.00 | 0.00 | 6.35 | 0.02 | 0.00 | 7.32 | 2.00 | 0.00 | 6.34 | 0.02 | 0.00 |
| 7.34 | 2.00 | 0.00 | 6.33 | 0.02 | 0.00 | 7.36 | 2.00 | 0.00 | 6.32 | 0.02 | 0.00 |
| 7.38 | 2.00 | 0.00 | 6.31 | 0.02 | 0.00 | 7.40 | 2.00 | 0.00 | 6.30 | 0.02 | 0.00 |
| 7.42 | 2.00 | 0.00 | 6.29 | 0.02 | 0.00 | 7.44 | 2.00 | 0.00 | 6.28 | 0.02 | 0.00 |
| 7.46 | 2.00 | 0.00 | 6.27 | 0.02 | 0.00 | 7.48 | 2.00 | 0.00 | 6.26 | 0.02 | 0.00 |
| 7.50 | 2.00 | 0.00 | 6.25 | 0.02 | 0.00 | 7.52 | 2.00 | 0.00 | 6.24 | 0.02 | 0.00 |
| 7.54 | 2.00 | 0.00 | 6.23 | 0.02 | 0.00 | 7.56 | 2.00 | 0.00 | 6.22 | 0.02 | 0.00 |
| 7.58 | 2.00 | 0.00 | 6.21 | 0.02 | 0.00 | 7.60 | 2.00 | 0.00 | 6.20 | 0.02 | 0.00 |
| 7.62 | 2.00 | 0.00 | 6.19 | 0.02 | 0.00 | 7.64 | 2.00 | 0.00 | 6.18 | 0.02 | 0.00 |
| 7.66 | 2.00 | 0.00 | 6.17 | 0.02 | 0.00 | 7.68 | 2.00 | 0.00 | 6.16 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 7.70 | 2.00 | 0.00 | 6.15 | 0.02 | 0.00 | 7.72 | 2.00 | 0.00 | 6.14 | 0.02 | 0.00 |
| 7.74 | 2.00 | 0.00 | 6.13 | 0.02 | 0.00 | 7.76 | 2.00 | 0.00 | 6.12 | 0.02 | 0.00 |
| 7.78 | 2.00 | 0.00 | 6.11 | 0.02 | 0.00 | 7.80 | 2.00 | 0.00 | 6.10 | 0.02 | 0.00 |
| 7.82 | 2.00 | 0.00 | 6.09 | 0.02 | 0.00 | 7.84 | 2.00 | 0.00 | 6.08 | 0.02 | 0.00 |
| 7.86 | 2.00 | 0.00 | 6.07 | 0.02 | 0.00 | 7.88 | 2.00 | 0.00 | 6.06 | 0.02 | 0.00 |
| 7.90 | 2.00 | 0.00 | 6.05 | 0.02 | 0.00 | 7.92 | 2.00 | 0.00 | 6.04 | 0.02 | 0.00 |
| 7.94 | 2.00 | 0.00 | 6.03 | 0.02 | 0.00 | 7.96 | 2.00 | 0.00 | 6.02 | 0.02 | 0.00 |
| 7.98 | 2.00 | 0.00 | 6.01 | 0.02 | 0.00 | 8.00 | 2.00 | 0.00 | 6.00 | 0.02 | 0.00 |
| 8.02 | 2.00 | 0.00 | 5.99 | 0.02 | 0.00 | 8.04 | 2.00 | 0.00 | 5.98 | 0.02 | 0.00 |
| 8.06 | 2.00 | 0.00 | 5.97 | 0.02 | 0.00 | 8.08 | 2.00 | 0.00 | 5.96 | 0.02 | 0.00 |
| 8.10 | 2.00 | 0.00 | 5.95 | 0.02 | 0.00 | 8.12 | 2.00 | 0.00 | 5.94 | 0.02 | 0.00 |
| 8.14 | 2.00 | 0.00 | 5.93 | 0.02 | 0.00 | 8.16 | 2.00 | 0.00 | 5.92 | 0.02 | 0.00 |
| 8.18 | 2.00 | 0.00 | 5.91 | 0.02 | 0.00 | 8.20 | 2.00 | 0.00 | 5.90 | 0.02 | 0.00 |
| 8.22 | 2.00 | 0.00 | 5.89 | 0.02 | 0.00 | 8.24 | 2.00 | 0.00 | 5.88 | 0.02 | 0.00 |
| 8.26 | 2.00 | 0.00 | 5.87 | 0.02 | 0.00 | 8.28 | 2.00 | 0.00 | 5.86 | 0.02 | 0.00 |
| 8.30 | 2.00 | 0.00 | 5.85 | 0.02 | 0.00 | 8.32 | 2.00 | 0.00 | 5.84 | 0.02 | 0.00 |
| 8.34 | 2.00 | 0.00 | 5.83 | 0.02 | 0.00 | 8.36 | 2.00 | 0.00 | 5.82 | 0.02 | 0.00 |
| 8.38 | 2.00 | 0.00 | 5.81 | 0.02 | 0.00 | 8.40 | 2.00 | 0.00 | 5.80 | 0.02 | 0.00 |
| 8.42 | 2.00 | 0.00 | 5.79 | 0.02 | 0.00 | 8.44 | 2.00 | 0.00 | 5.78 | 0.02 | 0.00 |
| 8.46 | 2.00 | 0.00 | 5.77 | 0.02 | 0.00 | 8.48 | 2.00 | 0.00 | 5.76 | 0.02 | 0.00 |
| 8.50 | 2.00 | 0.00 | 5.75 | 0.02 | 0.00 | 8.52 | 2.00 | 0.00 | 5.74 | 0.02 | 0.00 |
| 8.54 | 2.00 | 0.00 | 5.73 | 0.02 | 0.00 | 8.56 | 2.00 | 0.00 | 5.72 | 0.02 | 0.00 |
| 8.58 | 2.00 | 0.00 | 5.71 | 0.02 | 0.00 | 8.60 | 2.00 | 0.00 | 5.70 | 0.02 | 0.00 |
| 8.62 | 2.00 | 0.00 | 5.69 | 0.02 | 0.00 | 8.64 | 2.00 | 0.00 | 5.68 | 0.02 | 0.00 |
| 8.66 | 2.00 | 0.00 | 5.67 | 0.02 | 0.00 | 8.68 | 2.00 | 0.00 | 5.66 | 0.02 | 0.00 |
| 8.70 | 2.00 | 0.00 | 5.65 | 0.02 | 0.00 | 8.72 | 2.00 | 0.00 | 5.64 | 0.02 | 0.00 |
| 8.74 | 2.00 | 0.00 | 5.63 | 0.02 | 0.00 | 8.76 | 2.00 | 0.00 | 5.62 | 0.02 | 0.00 |
| 8.78 | 2.00 | 0.00 | 5.61 | 0.02 | 0.00 | 8.80 | 2.00 | 0.00 | 5.60 | 0.02 | 0.00 |
| 8.82 | 2.00 | 0.00 | 5.59 | 0.02 | 0.00 | 8.84 | 2.00 | 0.00 | 5.58 | 0.02 | 0.00 |
| 8.86 | 2.00 | 0.00 | 5.57 | 0.02 | 0.00 | 8.88 | 2.00 | 0.00 | 5.56 | 0.02 | 0.00 |
| 8.90 | 2.00 | 0.00 | 5.55 | 0.02 | 0.00 | 8.92 | 2.00 | 0.00 | 5.54 | 0.02 | 0.00 |
| 8.94 | 2.00 | 0.00 | 5.53 | 0.02 | 0.00 | 8.96 | 2.00 | 0.00 | 5.52 | 0.02 | 0.00 |
| 8.98 | 2.00 | 0.00 | 5.51 | 0.02 | 0.00 | 9.00 | 2.00 | 0.00 | 5.50 | 0.02 | 0.00 |
| 9.02 | 2.00 | 0.00 | 5.49 | 0.02 | 0.00 | 9.04 | 2.00 | 0.00 | 5.48 | 0.02 | 0.00 |
| 9.06 | 2.00 | 0.00 | 5.47 | 0.02 | 0.00 | 9.08 | 2.00 | 0.00 | 5.46 | 0.02 | 0.00 |
| 9.10 | 2.00 | 0.00 | 5.45 | 0.02 | 0.00 | 9.12 | 2.00 | 0.00 | 5.44 | 0.02 | 0.00 |
| 9.14 | 2.00 | 0.00 | 5.43 | 0.02 | 0.00 | 9.16 | 2.00 | 0.00 | 5.42 | 0.02 | 0.00 |
| 9.18 | 2.00 | 0.00 | 5.41 | 0.02 | 0.00 | 9.20 | 2.00 | 0.00 | 5.40 | 0.02 | 0.00 |
| 9.22 | 2.00 | 0.00 | 5.39 | 0.02 | 0.00 | 9.24 | 2.00 | 0.00 | 5.38 | 0.02 | 0.00 |
| 9.26 | 2.00 | 0.00 | 5.37 | 0.02 | 0.00 | 9.28 | 2.00 | 0.00 | 5.36 | 0.02 | 0.00 |
| 9.30 | 2.00 | 0.00 | 5.35 | 0.02 | 0.00 | 9.32 | 2.00 | 0.00 | 5.34 | 0.02 | 0.00 |
| 9.34 | 2.00 | 0.00 | 5.33 | 0.02 | 0.00 | 9.36 | 2.00 | 0.00 | 5.32 | 0.02 | 0.00 |
| 9.38 | 2.00 | 0.00 | 5.31 | 0.02 | 0.00 | 9.40 | 2.00 | 0.00 | 5.30 | 0.02 | 0.00 |
| 9.42 | 2.00 | 0.00 | 5.29 | 0.02 | 0.00 | 9.44 | 2.00 | 0.00 | 5.28 | 0.02 | 0.00 |
| 9.46 | 2.00 | 0.00 | 5.27 | 0.02 | 0.00 | 9.48 | 2.00 | 0.00 | 5.26 | 0.02 | 0.00 |
| 9.50 | 2.00 | 0.00 | 5.25 | 0.02 | 0.00 | 9.52 | 2.00 | 0.00 | 5.24 | 0.02 | 0.00 |
| 9.54 | 2.00 | 0.00 | 5.23 | 0.02 | 0.00 | 9.56 | 2.00 | 0.00 | 5.22 | 0.02 | 0.00 |
| 9.58 | 2.00 | 0.00 | 5.21 | 0.02 | 0.00 | 9.60 | 2.00 | 0.00 | 5.20 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 9.62 | 2.00 | 0.00 | 5.19 | 0.02 | 0.00 | 9.64 | 2.00 | 0.00 | 5.18 | 0.02 | 0.00 |
| 9.66 | 2.00 | 0.00 | 5.17 | 0.02 | 0.00 | 9.68 | 2.00 | 0.00 | 5.16 | 0.02 | 0.00 |
| 9.70 | 2.00 | 0.00 | 5.15 | 0.02 | 0.00 | 9.72 | 2.00 | 0.00 | 5.14 | 0.02 | 0.00 |
| 9.74 | 2.00 | 0.00 | 5.13 | 0.02 | 0.00 | 9.76 | 2.00 | 0.00 | 5.12 | 0.02 | 0.00 |
| 9.78 | 2.00 | 0.00 | 5.11 | 0.02 | 0.00 | 9.80 | 2.00 | 0.00 | 5.10 | 0.02 | 0.00 |
| 9.82 | 2.00 | 0.00 | 5.09 | 0.02 | 0.00 | 9.84 | 2.00 | 0.00 | 5.08 | 0.02 | 0.00 |
| 9.86 | 2.00 | 0.00 | 5.07 | 0.02 | 0.00 | 9.88 | 2.00 | 0.00 | 5.06 | 0.02 | 0.00 |
| 9.90 | 2.00 | 0.00 | 5.05 | 0.02 | 0.00 | 9.92 | 2.00 | 0.00 | 5.04 | 0.02 | 0.00 |
| 9.94 | 2.00 | 0.00 | 5.03 | 0.02 | 0.00 | 9.96 | 2.00 | 0.00 | 5.02 | 0.02 | 0.00 |
| 9.98 | 2.00 | 0.00 | 5.01 | 0.02 | 0.00 | 10.00 | 2.00 | 0.00 | 5.00 | 0.02 | 0.00 |
| 10.02 | 2.00 | 0.00 | 4.99 | 0.02 | 0.00 | 10.04 | 1.34 | 0.00 | 4.98 | 0.02 | 0.00 |
| 10.06 | 1.36 | 0.00 | 4.97 | 0.02 | 0.00 | 10.08 | 2.00 | 0.00 | 4.96 | 0.02 | 0.00 |
| 10.10 | 2.00 | 0.00 | 4.95 | 0.02 | 0.00 | 10.12 | 2.00 | 0.00 | 4.94 | 0.02 | 0.00 |
| 10.14 | 2.00 | 0.00 | 4.93 | 0.02 | 0.00 | 10.16 | 2.00 | 0.00 | 4.92 | 0.02 | 0.00 |
| 10.18 | 2.00 | 0.00 | 4.91 | 0.02 | 0.00 | 10.20 | 2.00 | 0.00 | 4.90 | 0.02 | 0.00 |
| 10.22 | 2.00 | 0.00 | 4.89 | 0.02 | 0.00 | 10.24 | 2.00 | 0.00 | 4.88 | 0.02 | 0.00 |
| 10.26 | 2.00 | 0.00 | 4.87 | 0.02 | 0.00 | 10.28 | 2.00 | 0.00 | 4.86 | 0.02 | 0.00 |
| 10.30 | 2.00 | 0.00 | 4.85 | 0.02 | 0.00 | 10.32 | 2.00 | 0.00 | 4.84 | 0.02 | 0.00 |
| 10.34 | 2.00 | 0.00 | 4.83 | 0.02 | 0.00 | 10.36 | 2.00 | 0.00 | 4.82 | 0.02 | 0.00 |
| 10.38 | 1.28 | 0.00 | 4.81 | 0.02 | 0.00 | 10.40 | 1.33 | 0.00 | 4.80 | 0.02 | 0.00 |
| 10.42 | 1.41 | 0.00 | 4.79 | 0.02 | 0.00 | 10.44 | 1.51 | 0.00 | 4.78 | 0.02 | 0.00 |
| 10.46 | 1.60 | 0.00 | 4.77 | 0.02 | 0.00 | 10.48 | 1.72 | 0.00 | 4.76 | 0.02 | 0.00 |
| 10.50 | 1.80 | 0.00 | 4.75 | 0.02 | 0.00 | 10.52 | 1.76 | 0.00 | 4.74 | 0.02 | 0.00 |
| 10.54 | 1.69 | 0.00 | 4.73 | 0.02 | 0.00 | 10.56 | 1.62 | 0.00 | 4.72 | 0.02 | 0.00 |
| 10.58 | 1.57 | 0.00 | 4.71 | 0.02 | 0.00 | 10.60 | 1.48 | 0.00 | 4.70 | 0.02 | 0.00 |
| 10.62 | 1.41 | 0.00 | 4.69 | 0.02 | 0.00 | 10.64 | 1.36 | 0.00 | 4.68 | 0.02 | 0.00 |
| 10.66 | 1.33 | 0.00 | 4.67 | 0.02 | 0.00 | 10.68 | 1.31 | 0.00 | 4.66 | 0.02 | 0.00 |
| 10.70 | 1.29 | 0.00 | 4.65 | 0.02 | 0.00 | 10.72 | 1.29 | 0.00 | 4.64 | 0.02 | 0.00 |
| 10.74 | 1.33 | 0.00 | 4.63 | 0.02 | 0.00 | 10.76 | 1.42 | 0.00 | 4.62 | 0.02 | 0.00 |
| 10.78 | 1.46 | 0.00 | 4.61 | 0.02 | 0.00 | 10.80 | 1.46 | 0.00 | 4.60 | 0.02 | 0.00 |
| 10.82 | 1.43 | 0.00 | 4.59 | 0.02 | 0.00 | 10.84 | 1.46 | 0.00 | 4.58 | 0.02 | 0.00 |
| 10.86 | 1.49 | 0.00 | 4.57 | 0.02 | 0.00 | 10.88 | 1.48 | 0.00 | 4.56 | 0.02 | 0.00 |
| 10.90 | 1.48 | 0.00 | 4.55 | 0.02 | 0.00 | 10.92 | 1.47 | 0.00 | 4.54 | 0.02 | 0.00 |
| 10.94 | 1.48 | 0.00 | 4.53 | 0.02 | 0.00 | 10.96 | 1.47 | 0.00 | 4.52 | 0.02 | 0.00 |
| 10.98 | 1.44 | 0.00 | 4.51 | 0.02 | 0.00 | 11.00 | 1.40 | 0.00 | 4.50 | 0.02 | 0.00 |
| 11.02 | 1.38 | 0.00 | 4.49 | 0.02 | 0.00 | 11.04 | 1.37 | 0.00 | 4.48 | 0.02 | 0.00 |
| 11.06 | 1.42 | 0.00 | 4.47 | 0.02 | 0.00 | 11.08 | 1.45 | 0.00 | 4.46 | 0.02 | 0.00 |
| 11.10 | 1.44 | 0.00 | 4.45 | 0.02 | 0.00 | 11.12 | 1.44 | 0.00 | 4.44 | 0.02 | 0.00 |
| 11.14 | 1.48 | 0.00 | 4.43 | 0.02 | 0.00 | 11.16 | 1.56 | 0.00 | 4.42 | 0.02 | 0.00 |
| 11.18 | 1.64 | 0.00 | 4.41 | 0.02 | 0.00 | 11.20 | 1.65 | 0.00 | 4.40 | 0.02 | 0.00 |
| 11.22 | 1.59 | 0.00 | 4.39 | 0.02 | 0.00 | 11.24 | 1.49 | 0.00 | 4.38 | 0.02 | 0.00 |
| 11.26 | 1.41 | 0.00 | 4.37 | 0.02 | 0.00 | 11.28 | 1.37 | 0.00 | 4.36 | 0.02 | 0.00 |
| 11.30 | 1.33 | 0.00 | 4.35 | 0.02 | 0.00 | 11.32 | 1.30 | 0.00 | 4.34 | 0.02 | 0.00 |
| 11.34 | 1.28 | 0.00 | 4.33 | 0.02 | 0.00 | 11.36 | 1.12 | 0.00 | 4.32 | 0.02 | 0.00 |
| 11.38 | 1.15 | 0.00 | 4.31 | 0.02 | 0.00 | 11.40 | 1.34 | 0.00 | 4.30 | 0.02 | 0.00 |
| 11.42 | 1.40 | 0.00 | 4.29 | 0.02 | 0.00 | 11.44 | 1.48 | 0.00 | 4.28 | 0.02 | 0.00 |
| 11.46 | 1.66 | 0.00 | 4.27 | 0.02 | 0.00 | 11.48 | 1.84 | 0.00 | 4.26 | 0.02 | 0.00 |
| 11.50 | 2.00 | 0.00 | 4.25 | 0.02 | 0.00 | 11.52 | 2.00 | 0.00 | 4.24 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 11.54 | 2.00 | 0.00 | 4.23 | 0.02 | 0.00 | 11.56 | 2.00 | 0.00 | 4.22 | 0.02 | 0.00 |
| 11.58 | 2.00 | 0.00 | 4.21 | 0.02 | 0.00 | 11.60 | 2.00 | 0.00 | 4.20 | 0.02 | 0.00 |
| 11.62 | 1.66 | 0.00 | 4.19 | 0.02 | 0.00 | 11.64 | 2.00 | 0.00 | 4.18 | 0.02 | 0.00 |
| 11.66 | 2.00 | 0.00 | 4.17 | 0.02 | 0.00 | 11.68 | 2.00 | 0.00 | 4.16 | 0.02 | 0.00 |
| 11.70 | 2.00 | 0.00 | 4.15 | 0.02 | 0.00 | 11.72 | 2.00 | 0.00 | 4.14 | 0.02 | 0.00 |
| 11.74 | 2.00 | 0.00 | 4.13 | 0.02 | 0.00 | 11.76 | 2.00 | 0.00 | 4.12 | 0.02 | 0.00 |
| 11.78 | 2.00 | 0.00 | 4.11 | 0.02 | 0.00 | 11.80 | 1.56 | 0.00 | 4.10 | 0.02 | 0.00 |
| 11.82 | 1.60 | 0.00 | 4.09 | 0.02 | 0.00 | 11.84 | 1.70 | 0.00 | 4.08 | 0.02 | 0.00 |
| 11.86 | 1.77 | 0.00 | 4.07 | 0.02 | 0.00 | 11.88 | 1.70 | 0.00 | 4.06 | 0.02 | 0.00 |
| 11.90 | 1.58 | 0.00 | 4.05 | 0.02 | 0.00 | 11.92 | 1.50 | 0.00 | 4.04 | 0.02 | 0.00 |
| 11.94 | 1.50 | 0.00 | 4.03 | 0.02 | 0.00 | 11.96 | 1.51 | 0.00 | 4.02 | 0.02 | 0.00 |
| 11.98 | 1.53 | 0.00 | 4.01 | 0.02 | 0.00 | 12.00 | 1.52 | 0.00 | 4.00 | 0.02 | 0.00 |
| 12.02 | 1.49 | 0.00 | 3.99 | 0.02 | 0.00 | 12.04 | 1.47 | 0.00 | 3.98 | 0.02 | 0.00 |
| 12.06 | 1.52 | 0.00 | 3.97 | 0.02 | 0.00 | 12.08 | 1.59 | 0.00 | 3.96 | 0.02 | 0.00 |
| 12.10 | 1.65 | 0.00 | 3.95 | 0.02 | 0.00 | 12.12 | 1.70 | 0.00 | 3.94 | 0.02 | 0.00 |
| 12.14 | 1.74 | 0.00 | 3.93 | 0.02 | 0.00 | 12.16 | 1.76 | 0.00 | 3.92 | 0.02 | 0.00 |
| 12.18 | 1.74 | 0.00 | 3.91 | 0.02 | 0.00 | 12.20 | 1.73 | 0.00 | 3.90 | 0.02 | 0.00 |
| 12.22 | 1.80 | 0.00 | 3.89 | 0.02 | 0.00 | 12.24 | 1.85 | 0.00 | 3.88 | 0.02 | 0.00 |
| 12.26 | 1.84 | 0.00 | 3.87 | 0.02 | 0.00 | 12.28 | 1.77 | 0.00 | 3.86 | 0.02 | 0.00 |
| 12.30 | 1.73 | 0.00 | 3.85 | 0.02 | 0.00 | 12.32 | 1.72 | 0.00 | 3.84 | 0.02 | 0.00 |
| 12.34 | 1.72 | 0.00 | 3.83 | 0.02 | 0.00 | 12.36 | 1.73 | 0.00 | 3.82 | 0.02 | 0.00 |
| 12.38 | 1.76 | 0.00 | 3.81 | 0.02 | 0.00 | 12.40 | 1.80 | 0.00 | 3.80 | 0.02 | 0.00 |
| 12.42 | 1.86 | 0.00 | 3.79 | 0.02 | 0.00 | 12.44 | 1.86 | 0.00 | 3.78 | 0.02 | 0.00 |
| 12.46 | 1.82 | 0.00 | 3.77 | 0.02 | 0.00 | 12.48 | 1.84 | 0.00 | 3.76 | 0.02 | 0.00 |
| 12.50 | 1.90 | 0.00 | 3.75 | 0.02 | 0.00 | 12.52 | 1.88 | 0.00 | 3.74 | 0.02 | 0.00 |
| 12.54 | 1.83 | 0.00 | 3.73 | 0.02 | 0.00 | 12.56 | 1.80 | 0.00 | 3.72 | 0.02 | 0.00 |
| 12.58 | 2.00 | 0.00 | 3.71 | 0.02 | 0.00 | 12.60 | 1.75 | 0.00 | 3.70 | 0.02 | 0.00 |
| 12.62 | 1.68 | 0.00 | 3.69 | 0.02 | 0.00 | 12.64 | 1.59 | 0.00 | 3.68 | 0.02 | 0.00 |
| 12.66 | 1.54 | 0.00 | 3.67 | 0.02 | 0.00 | 12.68 | 1.52 | 0.00 | 3.66 | 0.02 | 0.00 |
| 12.70 | 1.58 | 0.00 | 3.65 | 0.02 | 0.00 | 12.72 | 1.67 | 0.00 | 3.64 | 0.02 | 0.00 |
| 12.74 | 1.74 | 0.00 | 3.63 | 0.02 | 0.00 | 12.76 | 1.86 | 0.00 | 3.62 | 0.02 | 0.00 |
| 12.78 | 2.00 | 0.00 | 3.61 | 0.02 | 0.00 | 12.80 | 2.00 | 0.00 | 3.60 | 0.02 | 0.00 |
| 12.82 | 2.00 | 0.00 | 3.59 | 0.02 | 0.00 | 12.84 | 2.00 | 0.00 | 3.58 | 0.02 | 0.00 |
| 12.86 | 2.00 | 0.00 | 3.57 | 0.02 | 0.00 | 12.88 | 1.71 | 0.00 | 3.56 | 0.02 | 0.00 |
| 12.90 | 1.55 | 0.00 | 3.55 | 0.02 | 0.00 | 12.92 | 1.49 | 0.00 | 3.54 | 0.02 | 0.00 |
| 12.94 | 1.49 | 0.00 | 3.53 | 0.02 | 0.00 | 12.96 | 1.49 | 0.00 | 3.52 | 0.02 | 0.00 |
| 12.98 | 1.52 | 0.00 | 3.51 | 0.02 | 0.00 | 13.00 | 1.57 | 0.00 | 3.50 | 0.02 | 0.00 |
| 13.02 | 1.63 | 0.00 | 3.49 | 0.02 | 0.00 | 13.04 | 1.71 | 0.00 | 3.48 | 0.02 | 0.00 |
| 13.06 | 1.85 | 0.00 | 3.47 | 0.02 | 0.00 | 13.08 | 1.98 | 0.00 | 3.46 | 0.02 | 0.00 |
| 13.10 | 2.00 | 0.00 | 3.45 | 0.02 | 0.00 | 13.12 | 2.00 | 0.00 | 3.44 | 0.02 | 0.00 |
| 13.14 | 2.00 | 0.00 | 3.43 | 0.02 | 0.00 | 13.16 | 1.82 | 0.00 | 3.42 | 0.02 | 0.00 |
| 13.18 | 1.69 | 0.00 | 3.41 | 0.02 | 0.00 | 13.20 | 1.58 | 0.00 | 3.40 | 0.02 | 0.00 |
| 13.22 | 1.51 | 0.00 | 3.39 | 0.02 | 0.00 | 13.24 | 1.49 | 0.00 | 3.38 | 0.02 | 0.00 |
| 13.26 | 1.52 | 0.00 | 3.37 | 0.02 | 0.00 | 13.28 | 1.57 | 0.00 | 3.36 | 0.02 | 0.00 |
| 13.30 | 1.59 | 0.00 | 3.35 | 0.02 | 0.00 | 13.32 | 1.61 | 0.00 | 3.34 | 0.02 | 0.00 |
| 13.34 | 1.63 | 0.00 | 3.33 | 0.02 | 0.00 | 13.36 | 1.66 | 0.00 | 3.32 | 0.02 | 0.00 |
| 13.38 | 1.74 | 0.00 | 3.31 | 0.02 | 0.00 | 13.40 | 1.84 | 0.00 | 3.30 | 0.02 | 0.00 |
| 13.42 | 1.93 | 0.00 | 3.29 | 0.02 | 0.00 | 13.44 | 1.97 | 0.00 | 3.28 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 13.46 | 2.00 | 0.00 | 3.27 | 0.02 | 0.00 | 13.48 | 2.00 | 0.00 | 3.26 | 0.02 | 0.00 |
| 13.50 | 2.00 | 0.00 | 3.25 | 0.02 | 0.00 | 13.52 | 2.00 | 0.00 | 3.24 | 0.02 | 0.00 |
| 13.54 | 1.81 | 0.00 | 3.23 | 0.02 | 0.00 | 13.56 | 1.81 | 0.00 | 3.22 | 0.02 | 0.00 |
| 13.58 | 1.84 | 0.00 | 3.21 | 0.02 | 0.00 | 13.60 | 1.90 | 0.00 | 3.20 | 0.02 | 0.00 |
| 13.62 | 1.94 | 0.00 | 3.19 | 0.02 | 0.00 | 13.64 | 2.00 | 0.00 | 3.18 | 0.02 | 0.00 |
| 13.66 | 2.00 | 0.00 | 3.17 | 0.02 | 0.00 | 13.68 | 2.00 | 0.00 | 3.16 | 0.02 | 0.00 |
| 13.70 | 2.00 | 0.00 | 3.15 | 0.02 | 0.00 | 13.72 | 2.00 | 0.00 | 3.14 | 0.02 | 0.00 |
| 13.74 | 2.00 | 0.00 | 3.13 | 0.02 | 0.00 | 13.76 | 2.00 | 0.00 | 3.12 | 0.02 | 0.00 |
| 13.78 | 2.00 | 0.00 | 3.11 | 0.02 | 0.00 | 13.80 | 2.00 | 0.00 | 3.10 | 0.02 | 0.00 |
| 13.82 | 2.00 | 0.00 | 3.09 | 0.02 | 0.00 | 13.84 | 2.00 | 0.00 | 3.08 | 0.02 | 0.00 |
| 13.86 | 1.74 | 0.00 | 3.07 | 0.02 | 0.00 | 13.88 | 1.77 | 0.00 | 3.06 | 0.02 | 0.00 |
| 13.90 | 1.75 | 0.00 | 3.05 | 0.02 | 0.00 | 13.92 | 1.80 | 0.00 | 3.04 | 0.02 | 0.00 |
| 13.94 | 1.83 | 0.00 | 3.03 | 0.02 | 0.00 | 13.96 | 1.85 | 0.00 | 3.02 | 0.02 | 0.00 |
| 13.98 | 1.84 | 0.00 | 3.01 | 0.02 | 0.00 | 14.00 | 2.00 | 0.00 | 3.00 | 0.02 | 0.00 |
| 14.02 | 2.00 | 0.00 | 2.99 | 0.02 | 0.00 | 14.04 | 2.00 | 0.00 | 2.98 | 0.02 | 0.00 |
| 14.06 | 2.00 | 0.00 | 2.97 | 0.02 | 0.00 | 14.08 | 2.00 | 0.00 | 2.96 | 0.02 | 0.00 |
| 14.10 | 2.00 | 0.00 | 2.95 | 0.02 | 0.00 | 14.12 | 2.00 | 0.00 | 2.94 | 0.02 | 0.00 |
| 14.14 | 2.00 | 0.00 | 2.93 | 0.02 | 0.00 | 14.16 | 2.00 | 0.00 | 2.92 | 0.02 | 0.00 |
| 14.18 | 2.00 | 0.00 | 2.91 | 0.02 | 0.00 | 14.20 | 2.00 | 0.00 | 2.90 | 0.02 | 0.00 |
| 14.22 | 2.00 | 0.00 | 2.89 | 0.02 | 0.00 | 14.24 | 2.00 | 0.00 | 2.88 | 0.02 | 0.00 |
| 14.26 | 2.00 | 0.00 | 2.87 | 0.02 | 0.00 | 14.28 | 2.00 | 0.00 | 2.86 | 0.02 | 0.00 |
| 14.30 | 2.00 | 0.00 | 2.85 | 0.02 | 0.00 | 14.32 | 2.00 | 0.00 | 2.84 | 0.02 | 0.00 |
| 14.34 | 2.00 | 0.00 | 2.83 | 0.02 | 0.00 | 14.36 | 2.00 | 0.00 | 2.82 | 0.02 | 0.00 |
| 14.38 | 2.00 | 0.00 | 2.81 | 0.02 | 0.00 | 14.40 | 2.00 | 0.00 | 2.80 | 0.02 | 0.00 |
| 14.42 | 2.00 | 0.00 | 2.79 | 0.02 | 0.00 | 14.44 | 2.00 | 0.00 | 2.78 | 0.02 | 0.00 |
| 14.46 | 2.00 | 0.00 | 2.77 | 0.02 | 0.00 | 14.48 | 2.00 | 0.00 | 2.76 | 0.02 | 0.00 |
| 14.50 | 2.00 | 0.00 | 2.75 | 0.02 | 0.00 | 14.52 | 2.00 | 0.00 | 2.74 | 0.02 | 0.00 |
| 14.54 | 2.00 | 0.00 | 2.73 | 0.02 | 0.00 | 14.56 | 2.00 | 0.00 | 2.72 | 0.02 | 0.00 |
| 14.58 | 2.00 | 0.00 | 2.71 | 0.02 | 0.00 | 14.60 | 2.00 | 0.00 | 2.70 | 0.02 | 0.00 |
| 14.62 | 2.00 | 0.00 | 2.69 | 0.02 | 0.00 | 14.64 | 2.00 | 0.00 | 2.68 | 0.02 | 0.00 |
| 14.66 | 2.00 | 0.00 | 2.67 | 0.02 | 0.00 | 14.68 | 2.00 | 0.00 | 2.66 | 0.02 | 0.00 |
| 14.70 | 2.00 | 0.00 | 2.65 | 0.02 | 0.00 | 14.72 | 2.00 | 0.00 | 2.64 | 0.02 | 0.00 |
| 14.74 | 2.00 | 0.00 | 2.63 | 0.02 | 0.00 | 14.76 | 2.00 | 0.00 | 2.62 | 0.02 | 0.00 |
| 14.78 | 2.00 | 0.00 | 2.61 | 0.02 | 0.00 | 14.80 | 2.00 | 0.00 | 2.60 | 0.02 | 0.00 |
| 14.82 | 2.00 | 0.00 | 2.59 | 0.02 | 0.00 | 14.84 | 2.00 | 0.00 | 2.58 | 0.02 | 0.00 |
| 14.86 | 2.00 | 0.00 | 2.57 | 0.02 | 0.00 | 14.88 | 2.00 | 0.00 | 2.56 | 0.02 | 0.00 |
| 14.90 | 2.00 | 0.00 | 2.55 | 0.02 | 0.00 | 14.92 | 2.00 | 0.00 | 2.54 | 0.02 | 0.00 |
| 14.94 | 2.00 | 0.00 | 2.53 | 0.02 | 0.00 | 14.96 | 2.00 | 0.00 | 2.52 | 0.02 | 0.00 |
| 14.98 | 2.00 | 0.00 | 2.51 | 0.02 | 0.00 | 15.00 | 1.44 | 0.00 | 2.50 | 0.02 | 0.00 |
| 15.02 | 1.40 | 0.00 | 2.49 | 0.02 | 0.00 | 15.04 | 1.41 | 0.00 | 2.48 | 0.02 | 0.00 |
| 15.06 | 1.44 | 0.00 | 2.47 | 0.02 | 0.00 | 15.08 | 1.48 | 0.00 | 2.46 | 0.02 | 0.00 |
| 15.10 | 1.49 | 0.00 | 2.45 | 0.02 | 0.00 | 15.12 | 1.48 | 0.00 | 2.44 | 0.02 | 0.00 |
| 15.14 | 1.49 | 0.00 | 2.43 | 0.02 | 0.00 | 15.16 | 2.00 | 0.00 | 2.42 | 0.02 | 0.00 |
| 15.18 | 2.00 | 0.00 | 2.41 | 0.02 | 0.00 | 15.20 | 2.00 | 0.00 | 2.40 | 0.02 | 0.00 |
| 15.22 | 2.00 | 0.00 | 2.39 | 0.02 | 0.00 | 15.24 | 2.00 | 0.00 | 2.38 | 0.02 | 0.00 |
| 15.26 | 2.00 | 0.00 | 2.37 | 0.02 | 0.00 | 15.28 | 2.00 | 0.00 | 2.36 | 0.02 | 0.00 |
| 15.30 | 2.00 | 0.00 | 2.35 | 0.02 | 0.00 | 15.32 | 2.00 | 0.00 | 2.34 | 0.02 | 0.00 |
| 15.34 | 2.00 | 0.00 | 2.33 | 0.02 | 0.00 | 15.36 | 2.00 | 0.00 | 2.32 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 15.38 | 2.00 | 0.00 | 2.31 | 0.02 | 0.00 | 15.40 | 2.00 | 0.00 | 2.30 | 0.02 | 0.00 |
| 15.42 | 2.00 | 0.00 | 2.29 | 0.02 | 0.00 | 15.44 | 2.00 | 0.00 | 2.28 | 0.02 | 0.00 |
| 15.46 | 2.00 | 0.00 | 2.27 | 0.02 | 0.00 | 15.48 | 2.00 | 0.00 | 2.26 | 0.02 | 0.00 |
| 15.50 | 2.00 | 0.00 | 2.25 | 0.02 | 0.00 | 15.52 | 2.00 | 0.00 | 2.24 | 0.02 | 0.00 |
| 15.54 | 2.00 | 0.00 | 2.23 | 0.02 | 0.00 | 15.56 | 2.00 | 0.00 | 2.22 | 0.02 | 0.00 |
| 15.58 | 2.00 | 0.00 | 2.21 | 0.02 | 0.00 | 15.60 | 2.00 | 0.00 | 2.20 | 0.02 | 0.00 |
| 15.62 | 2.00 | 0.00 | 2.19 | 0.02 | 0.00 | 15.64 | 2.00 | 0.00 | 2.18 | 0.02 | 0.00 |
| 15.66 | 2.00 | 0.00 | 2.17 | 0.02 | 0.00 | 15.68 | 2.00 | 0.00 | 2.16 | 0.02 | 0.00 |
| 15.70 | 2.00 | 0.00 | 2.15 | 0.02 | 0.00 | 15.72 | 2.00 | 0.00 | 2.14 | 0.02 | 0.00 |
| 15.74 | 2.00 | 0.00 | 2.13 | 0.02 | 0.00 | 15.76 | 2.00 | 0.00 | 2.12 | 0.02 | 0.00 |
| 15.78 | 2.00 | 0.00 | 2.11 | 0.02 | 0.00 | 15.80 | 2.00 | 0.00 | 2.10 | 0.02 | 0.00 |
| 15.82 | 2.00 | 0.00 | 2.09 | 0.02 | 0.00 | 15.84 | 2.00 | 0.00 | 2.08 | 0.02 | 0.00 |
| 15.86 | 2.00 | 0.00 | 2.07 | 0.02 | 0.00 | 15.88 | 2.00 | 0.00 | 2.06 | 0.02 | 0.00 |
| 15.90 | 2.00 | 0.00 | 2.05 | 0.02 | 0.00 | 15.92 | 2.00 | 0.00 | 2.04 | 0.02 | 0.00 |
| 15.94 | 2.00 | 0.00 | 2.03 | 0.02 | 0.00 | 15.96 | 2.00 | 0.00 | 2.02 | 0.02 | 0.00 |
| 15.98 | 2.00 | 0.00 | 2.01 | 0.02 | 0.00 | 16.00 | 2.00 | 0.00 | 2.00 | 0.02 | 0.00 |
| 16.02 | 2.00 | 0.00 | 1.99 | 0.02 | 0.00 | 16.04 | 2.00 | 0.00 | 1.98 | 0.02 | 0.00 |
| 16.06 | 2.00 | 0.00 | 1.97 | 0.02 | 0.00 | 16.08 | 2.00 | 0.00 | 1.96 | 0.02 | 0.00 |
| 16.10 | 2.00 | 0.00 | 1.95 | 0.02 | 0.00 | 16.12 | 2.00 | 0.00 | 1.94 | 0.02 | 0.00 |
| 16.14 | 2.00 | 0.00 | 1.93 | 0.02 | 0.00 | 16.16 | 2.00 | 0.00 | 1.92 | 0.02 | 0.00 |
| 16.18 | 2.00 | 0.00 | 1.91 | 0.02 | 0.00 | 16.20 | 2.00 | 0.00 | 1.90 | 0.02 | 0.00 |
| 16.22 | 2.00 | 0.00 | 1.89 | 0.02 | 0.00 | 16.24 | 2.00 | 0.00 | 1.88 | 0.02 | 0.00 |
| 16.26 | 2.00 | 0.00 | 1.87 | 0.02 | 0.00 | 16.28 | 2.00 | 0.00 | 1.86 | 0.02 | 0.00 |
| 16.30 | 2.00 | 0.00 | 1.85 | 0.02 | 0.00 | 16.32 | 2.00 | 0.00 | 1.84 | 0.02 | 0.00 |
| 16.34 | 2.00 | 0.00 | 1.83 | 0.02 | 0.00 | 16.36 | 2.00 | 0.00 | 1.82 | 0.02 | 0.00 |
| 16.38 | 2.00 | 0.00 | 1.81 | 0.02 | 0.00 | 16.40 | 2.00 | 0.00 | 1.80 | 0.02 | 0.00 |
| 16.42 | 2.00 | 0.00 | 1.79 | 0.02 | 0.00 | 16.44 | 2.00 | 0.00 | 1.78 | 0.02 | 0.00 |
| 16.46 | 2.00 | 0.00 | 1.77 | 0.02 | 0.00 | 16.48 | 2.00 | 0.00 | 1.76 | 0.02 | 0.00 |
| 16.50 | 2.00 | 0.00 | 1.75 | 0.02 | 0.00 | 16.52 | 2.00 | 0.00 | 1.74 | 0.02 | 0.00 |
| 16.54 | 2.00 | 0.00 | 1.73 | 0.02 | 0.00 | 16.56 | 2.00 | 0.00 | 1.72 | 0.02 | 0.00 |
| 16.58 | 2.00 | 0.00 | 1.71 | 0.02 | 0.00 | 16.60 | 2.00 | 0.00 | 1.70 | 0.02 | 0.00 |
| 16.62 | 2.00 | 0.00 | 1.69 | 0.02 | 0.00 | 16.64 | 2.00 | 0.00 | 1.68 | 0.02 | 0.00 |
| 16.66 | 2.00 | 0.00 | 1.67 | 0.02 | 0.00 | 16.68 | 2.00 | 0.00 | 1.66 | 0.02 | 0.00 |
| 16.70 | 2.00 | 0.00 | 1.65 | 0.02 | 0.00 | 16.72 | 2.00 | 0.00 | 1.64 | 0.02 | 0.00 |
| 16.74 | 2.00 | 0.00 | 1.63 | 0.02 | 0.00 | 16.76 | 2.00 | 0.00 | 1.62 | 0.02 | 0.00 |
| 16.78 | 2.00 | 0.00 | 1.61 | 0.02 | 0.00 | 16.80 | 2.00 | 0.00 | 1.60 | 0.02 | 0.00 |
| 16.82 | 2.00 | 0.00 | 1.59 | 0.02 | 0.00 | 16.84 | 2.00 | 0.00 | 1.58 | 0.02 | 0.00 |
| 16.86 | 2.00 | 0.00 | 1.57 | 0.02 | 0.00 | 16.88 | 2.00 | 0.00 | 1.56 | 0.02 | 0.00 |
| 16.90 | 2.00 | 0.00 | 1.55 | 0.02 | 0.00 | 16.92 | 1.62 | 0.00 | 1.54 | 0.02 | 0.00 |
| 16.94 | 1.61 | 0.00 | 1.53 | 0.02 | 0.00 | 16.96 | 1.61 | 0.00 | 1.52 | 0.02 | 0.00 |
| 16.98 | 1.60 | 0.00 | 1.51 | 0.02 | 0.00 | 17.00 | 1.59 | 0.00 | 1.50 | 0.02 | 0.00 |
| 17.02 | 1.59 | 0.00 | 1.49 | 0.02 | 0.00 | 17.04 | 1.62 | 0.00 | 1.48 | 0.02 | 0.00 |
| 17.06 | 1.69 | 0.00 | 1.47 | 0.02 | 0.00 | 17.08 | 1.80 | 0.00 | 1.46 | 0.02 | 0.00 |
| 17.10 | 2.00 | 0.00 | 1.45 | 0.02 | 0.00 | 17.12 | 2.00 | 0.00 | 1.44 | 0.02 | 0.00 |
| 17.14 | 2.00 | 0.00 | 1.43 | 0.02 | 0.00 | 17.16 | 2.00 | 0.00 | 1.42 | 0.02 | 0.00 |
| 17.18 | 2.00 | 0.00 | 1.41 | 0.02 | 0.00 | 17.20 | 2.00 | 0.00 | 1.40 | 0.02 | 0.00 |
| 17.22 | 2.00 | 0.00 | 1.39 | 0.02 | 0.00 | 17.24 | 2.00 | 0.00 | 1.38 | 0.02 | 0.00 |
| 17.26 | 2.00 | 0.00 | 1.37 | 0.02 | 0.00 | 17.28 | 2.00 | 0.00 | 1.36 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 17.30 | 2.00 | 0.00 | 1.35 | 0.02 | 0.00 | 17.32 | 2.00 | 0.00 | 1.34 | 0.02 | 0.00 |
| 17.34 | 2.00 | 0.00 | 1.33 | 0.02 | 0.00 | 17.36 | 2.00 | 0.00 | 1.32 | 0.02 | 0.00 |
| 17.38 | 2.00 | 0.00 | 1.31 | 0.02 | 0.00 | 17.40 | 2.00 | 0.00 | 1.30 | 0.02 | 0.00 |
| 17.42 | 2.00 | 0.00 | 1.29 | 0.02 | 0.00 | 17.44 | 2.00 | 0.00 | 1.28 | 0.02 | 0.00 |
| 17.46 | 2.00 | 0.00 | 1.27 | 0.02 | 0.00 | 17.48 | 2.00 | 0.00 | 1.26 | 0.02 | 0.00 |
| 17.50 | 2.00 | 0.00 | 1.25 | 0.02 | 0.00 | 17.52 | 2.00 | 0.00 | 1.24 | 0.02 | 0.00 |
| 17.54 | 2.00 | 0.00 | 1.23 | 0.02 | 0.00 | 17.56 | 2.00 | 0.00 | 1.22 | 0.02 | 0.00 |
| 17.58 | 2.00 | 0.00 | 1.21 | 0.02 | 0.00 | 17.60 | 2.00 | 0.00 | 1.20 | 0.02 | 0.00 |
| 17.62 | 2.00 | 0.00 | 1.19 | 0.02 | 0.00 | 17.64 | 2.00 | 0.00 | 1.18 | 0.02 | 0.00 |
| 17.66 | 2.00 | 0.00 | 1.17 | 0.02 | 0.00 | 17.68 | 2.00 | 0.00 | 1.16 | 0.02 | 0.00 |
| 17.70 | 2.00 | 0.00 | 1.15 | 0.02 | 0.00 | 17.72 | 2.00 | 0.00 | 1.14 | 0.02 | 0.00 |
| 17.74 | 2.00 | 0.00 | 1.13 | 0.02 | 0.00 | 17.76 | 2.00 | 0.00 | 1.12 | 0.02 | 0.00 |
| 17.78 | 2.00 | 0.00 | 1.11 | 0.02 | 0.00 | 17.80 | 2.00 | 0.00 | 1.10 | 0.02 | 0.00 |
| 17.82 | 2.00 | 0.00 | 1.09 | 0.02 | 0.00 | 17.84 | 2.00 | 0.00 | 1.08 | 0.02 | 0.00 |
| 17.86 | 2.00 | 0.00 | 1.07 | 0.02 | 0.00 | 17.88 | 2.00 | 0.00 | 1.06 | 0.02 | 0.00 |
| 17.90 | 2.00 | 0.00 | 1.05 | 0.02 | 0.00 | 17.92 | 2.00 | 0.00 | 1.04 | 0.02 | 0.00 |
| 17.94 | 2.00 | 0.00 | 1.03 | 0.02 | 0.00 | 17.96 | 2.00 | 0.00 | 1.02 | 0.02 | 0.00 |
| 17.98 | 2.00 | 0.00 | 1.01 | 0.02 | 0.00 | 18.00 | 2.00 | 0.00 | 1.00 | 0.02 | 0.00 |
| 18.02 | 2.00 | 0.00 | 0.99 | 0.02 | 0.00 | 18.04 | 2.00 | 0.00 | 0.98 | 0.02 | 0.00 |
| 18.06 | 2.00 | 0.00 | 0.97 | 0.02 | 0.00 | 18.08 | 2.00 | 0.00 | 0.96 | 0.02 | 0.00 |
| 18.10 | 2.00 | 0.00 | 0.95 | 0.02 | 0.00 | 18.12 | 2.00 | 0.00 | 0.94 | 0.02 | 0.00 |
| 18.14 | 2.00 | 0.00 | 0.93 | 0.02 | 0.00 | 18.16 | 2.00 | 0.00 | 0.92 | 0.02 | 0.00 |
| 18.18 | 2.00 | 0.00 | 0.91 | 0.02 | 0.00 | 18.20 | 2.00 | 0.00 | 0.90 | 0.02 | 0.00 |
| 18.22 | 2.00 | 0.00 | 0.89 | 0.02 | 0.00 | 18.24 | 2.00 | 0.00 | 0.88 | 0.02 | 0.00 |
| 18.26 | 2.00 | 0.00 | 0.87 | 0.02 | 0.00 | 18.28 | 2.00 | 0.00 | 0.86 | 0.02 | 0.00 |
| 18.30 | 2.00 | 0.00 | 0.85 | 0.02 | 0.00 | 18.32 | 2.00 | 0.00 | 0.84 | 0.02 | 0.00 |
| 18.34 | 2.00 | 0.00 | 0.83 | 0.02 | 0.00 | 18.36 | 2.00 | 0.00 | 0.82 | 0.02 | 0.00 |
| 18.38 | 2.00 | 0.00 | 0.81 | 0.02 | 0.00 | 18.40 | 2.00 | 0.00 | 0.80 | 0.02 | 0.00 |
| 18.42 | 2.00 | 0.00 | 0.79 | 0.02 | 0.00 | 18.44 | 2.00 | 0.00 | 0.78 | 0.02 | 0.00 |
| 18.46 | 2.00 | 0.00 | 0.77 | 0.02 | 0.00 | 18.48 | 2.00 | 0.00 | 0.76 | 0.02 | 0.00 |
| 18.50 | 2.00 | 0.00 | 0.75 | 0.02 | 0.00 | 18.52 | 2.00 | 0.00 | 0.74 | 0.02 | 0.00 |
| 18.54 | 2.00 | 0.00 | 0.73 | 0.02 | 0.00 | 18.56 | 2.00 | 0.00 | 0.72 | 0.02 | 0.00 |
| 18.58 | 2.00 | 0.00 | 0.71 | 0.02 | 0.00 | 18.60 | 2.00 | 0.00 | 0.70 | 0.02 | 0.00 |
| 18.62 | 2.00 | 0.00 | 0.69 | 0.02 | 0.00 | 18.64 | 2.00 | 0.00 | 0.68 | 0.02 | 0.00 |
| 18.66 | 2.00 | 0.00 | 0.67 | 0.02 | 0.00 | 18.68 | 2.00 | 0.00 | 0.66 | 0.02 | 0.00 |
| 18.70 | 2.00 | 0.00 | 0.65 | 0.02 | 0.00 | 18.72 | 2.00 | 0.00 | 0.64 | 0.02 | 0.00 |
| 18.74 | 2.00 | 0.00 | 0.63 | 0.02 | 0.00 | 18.76 | 2.00 | 0.00 | 0.62 | 0.02 | 0.00 |
| 18.78 | 2.00 | 0.00 | 0.61 | 0.02 | 0.00 | 18.80 | 2.00 | 0.00 | 0.60 | 0.02 | 0.00 |
| 18.82 | 2.00 | 0.00 | 0.59 | 0.02 | 0.00 | 18.84 | 2.00 | 0.00 | 0.58 | 0.02 | 0.00 |
| 18.86 | 2.00 | 0.00 | 0.57 | 0.02 | 0.00 | 18.88 | 2.00 | 0.00 | 0.56 | 0.02 | 0.00 |
| 18.90 | 2.00 | 0.00 | 0.55 | 0.02 | 0.00 | 18.92 | 2.00 | 0.00 | 0.54 | 0.02 | 0.00 |
| 18.94 | 2.00 | 0.00 | 0.53 | 0.02 | 0.00 | 18.96 | 2.00 | 0.00 | 0.52 | 0.02 | 0.00 |
| 18.98 | 2.00 | 0.00 | 0.51 | 0.02 | 0.00 | 19.00 | 2.00 | 0.00 | 0.50 | 0.02 | 0.00 |
| 19.02 | 2.00 | 0.00 | 0.49 | 0.02 | 0.00 | 19.04 | 2.00 | 0.00 | 0.48 | 0.02 | 0.00 |
| 19.06 | 2.00 | 0.00 | 0.47 | 0.02 | 0.00 | 19.08 | 2.00 | 0.00 | 0.46 | 0.02 | 0.00 |
| 19.10 | 2.00 | 0.00 | 0.45 | 0.02 | 0.00 | 19.12 | 2.00 | 0.00 | 0.44 | 0.02 | 0.00 |
| 19.14 | 2.00 | 0.00 | 0.43 | 0.02 | 0.00 | 19.16 | 2.00 | 0.00 | 0.42 | 0.02 | 0.00 |
| 19.18 | 2.00 | 0.00 | 0.41 | 0.02 | 0.00 | 19.20 | 2.00 | 0.00 | 0.40 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 19.22 | 2.00 | 0.00 | 0.39 | 0.02 | 0.00 | 19.24 | 2.00 | 0.00 | 0.38 | 0.02 | 0.00 |
| 19.26 | 2.00 | 0.00 | 0.37 | 0.02 | 0.00 | 19.28 | 2.00 | 0.00 | 0.36 | 0.02 | 0.00 |
| 19.30 | 2.00 | 0.00 | 0.35 | 0.02 | 0.00 | 19.32 | 2.00 | 0.00 | 0.34 | 0.02 | 0.00 |
| 19.34 | 2.00 | 0.00 | 0.33 | 0.02 | 0.00 | 19.36 | 2.00 | 0.00 | 0.32 | 0.02 | 0.00 |
| 19.38 | 2.00 | 0.00 | 0.31 | 0.02 | 0.00 | 19.40 | 2.00 | 0.00 | 0.30 | 0.02 | 0.00 |
| 19.42 | 2.00 | 0.00 | 0.29 | 0.02 | 0.00 | 19.44 | 2.00 | 0.00 | 0.28 | 0.02 | 0.00 |
| 19.46 | 2.00 | 0.00 | 0.27 | 0.02 | 0.00 | 19.48 | 2.00 | 0.00 | 0.26 | 0.02 | 0.00 |
| 19.50 | 2.00 | 0.00 | 0.25 | 0.02 | 0.00 | 19.52 | 2.00 | 0.00 | 0.24 | 0.02 | 0.00 |
| 19.54 | 2.00 | 0.00 | 0.23 | 0.02 | 0.00 | 19.56 | 2.00 | 0.00 | 0.22 | 0.02 | 0.00 |
| 19.58 | 2.00 | 0.00 | 0.21 | 0.02 | 0.00 | 19.60 | 2.00 | 0.00 | 0.20 | 0.02 | 0.00 |
| 19.62 | 2.00 | 0.00 | 0.19 | 0.02 | 0.00 | 19.64 | 2.00 | 0.00 | 0.18 | 0.02 | 0.00 |
| 19.66 | 2.00 | 0.00 | 0.17 | 0.02 | 0.00 | 19.68 | 2.00 | 0.00 | 0.16 | 0.02 | 0.00 |
| 19.70 | 2.00 | 0.00 | 0.15 | 0.02 | 0.00 | 19.72 | 2.00 | 0.00 | 0.14 | 0.02 | 0.00 |
| 19.74 | 2.00 | 0.00 | 0.13 | 0.02 | 0.00 | 19.76 | 2.00 | 0.00 | 0.12 | 0.02 | 0.00 |
| 19.78 | 2.00 | 0.00 | 0.11 | 0.02 | 0.00 | 19.80 | 2.00 | 0.00 | 0.10 | 0.02 | 0.00 |
| 19.82 | 2.00 | 0.00 | 0.09 | 0.02 | 0.00 | 19.84 | 2.00 | 0.00 | 0.08 | 0.02 | 0.00 |
| 19.86 | 2.00 | 0.00 | 0.07 | 0.02 | 0.00 | 19.88 | 2.00 | 0.00 | 0.06 | 0.02 | 0.00 |

Overall liquefaction potential: 0.00

LPI = 0.00 - Liquefaction risk very low

LPI between 0.00 and 5.00 - Liquefaction risk low

LPI between 5.00 and 15.00 - Liquefaction risk high

LPI > 15.00 - Liquefaction risk very high

Abbreviations

FS: Calculated factor of safety for test point

F_L: 1 - FSw_z: Function value of the extend of soil liquefaction according to depthd_z: Layer thickness (m)

LPI: Liquefaction potential index value for test point

LIQUEFACTION ANALYSIS REPORT

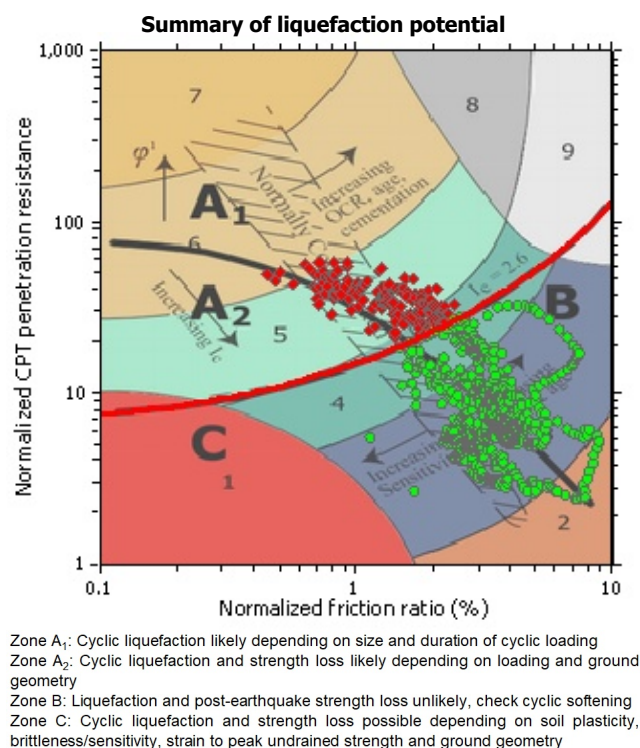
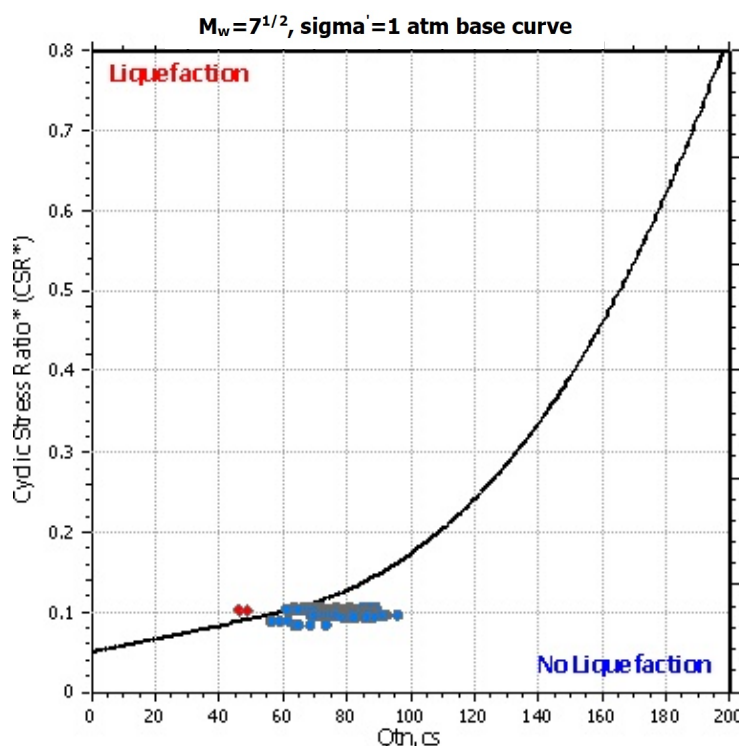
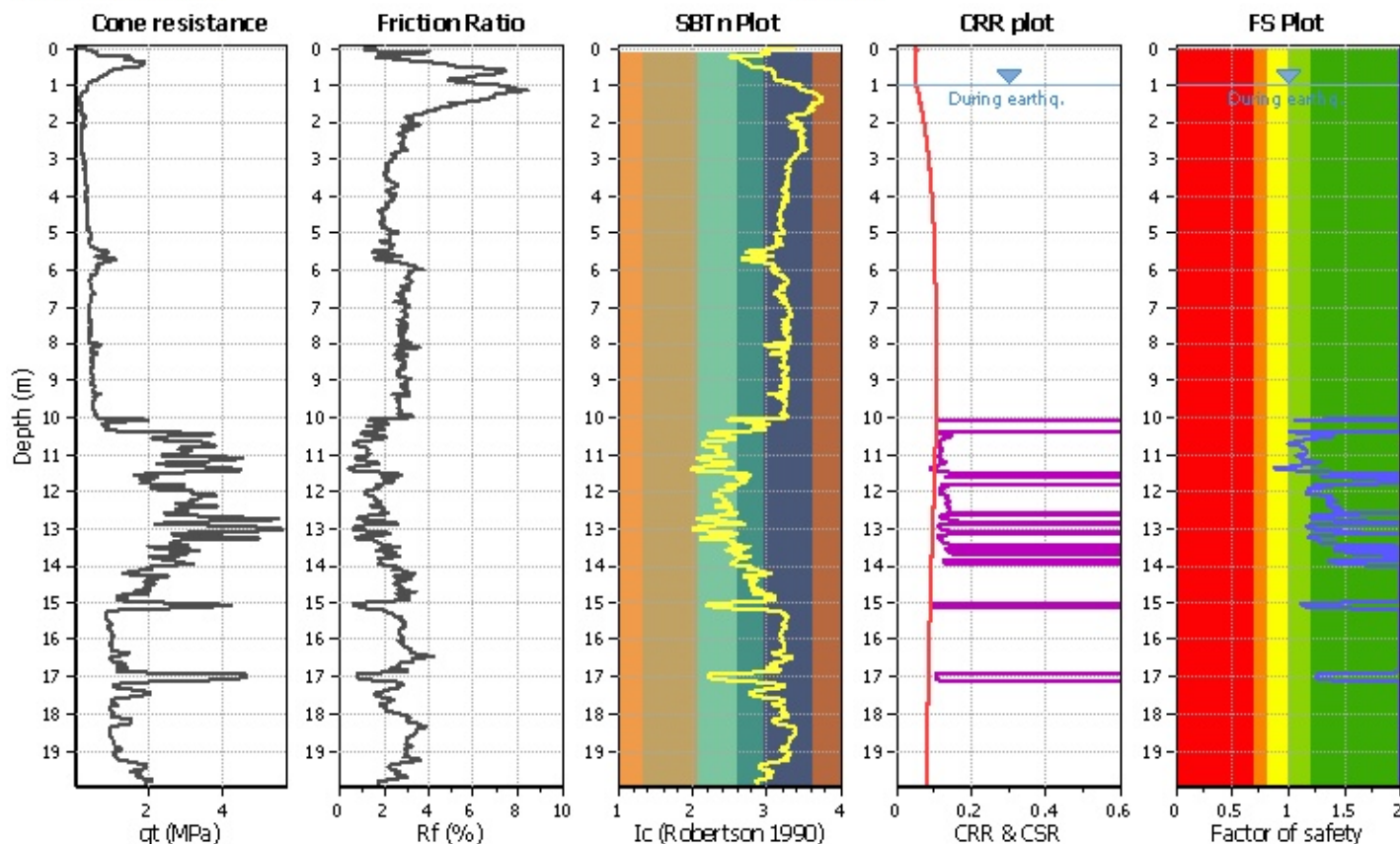
Project title :

Location :

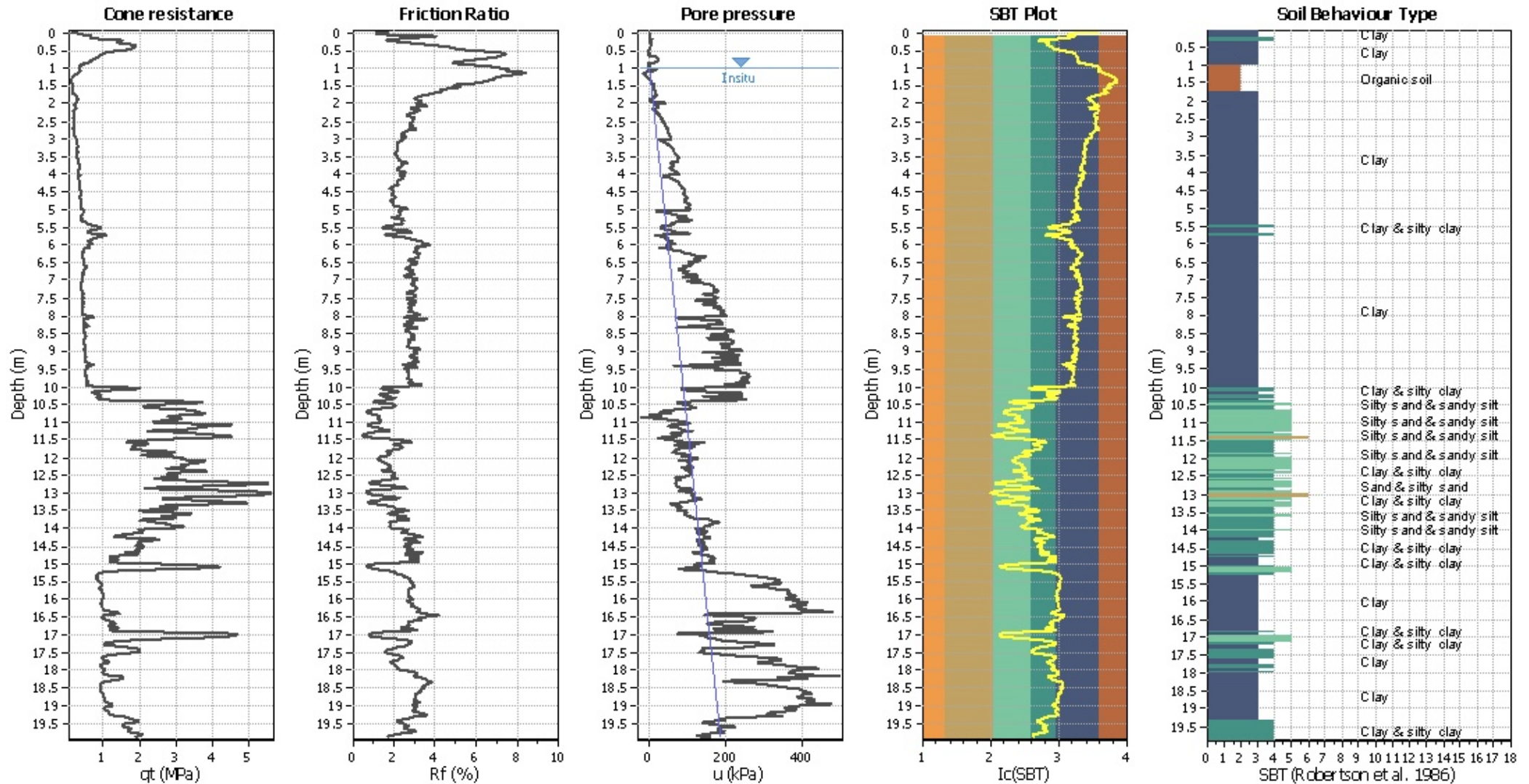
CPT file : CPTU3

Input parameters and analysis data

| | | | | | | | |
|------------------------------|-------------------|---------------------------|--------------|-------------------------|-----|----------------------|--------------|
| Analysis method: | NCEER (1998) | G.W.T. (in-situ): | 1.00 m | Use fill: | No | Clay like behavior | |
| Fines correction method: | NCEER (1998) | G.W.T. (earthq.): | 1.00 m | Fill height: | N/A | applied: | Sands only |
| Points to test: | Based on Ic value | Average results interval: | 3 | Fill weight: | N/A | Limit depth applied: | No |
| Earthquake magnitude M_w : | 5.50 | Ic cut-off value: | 2.60 | Trans. detect. applied: | No | Limit depth: | N/A |
| Peak ground acceleration: | 0.17 | Unit weight calculation: | Based on SBT | K_0 applied: | Yes | MSF method: | Method based |



CPT basic interpretation plo



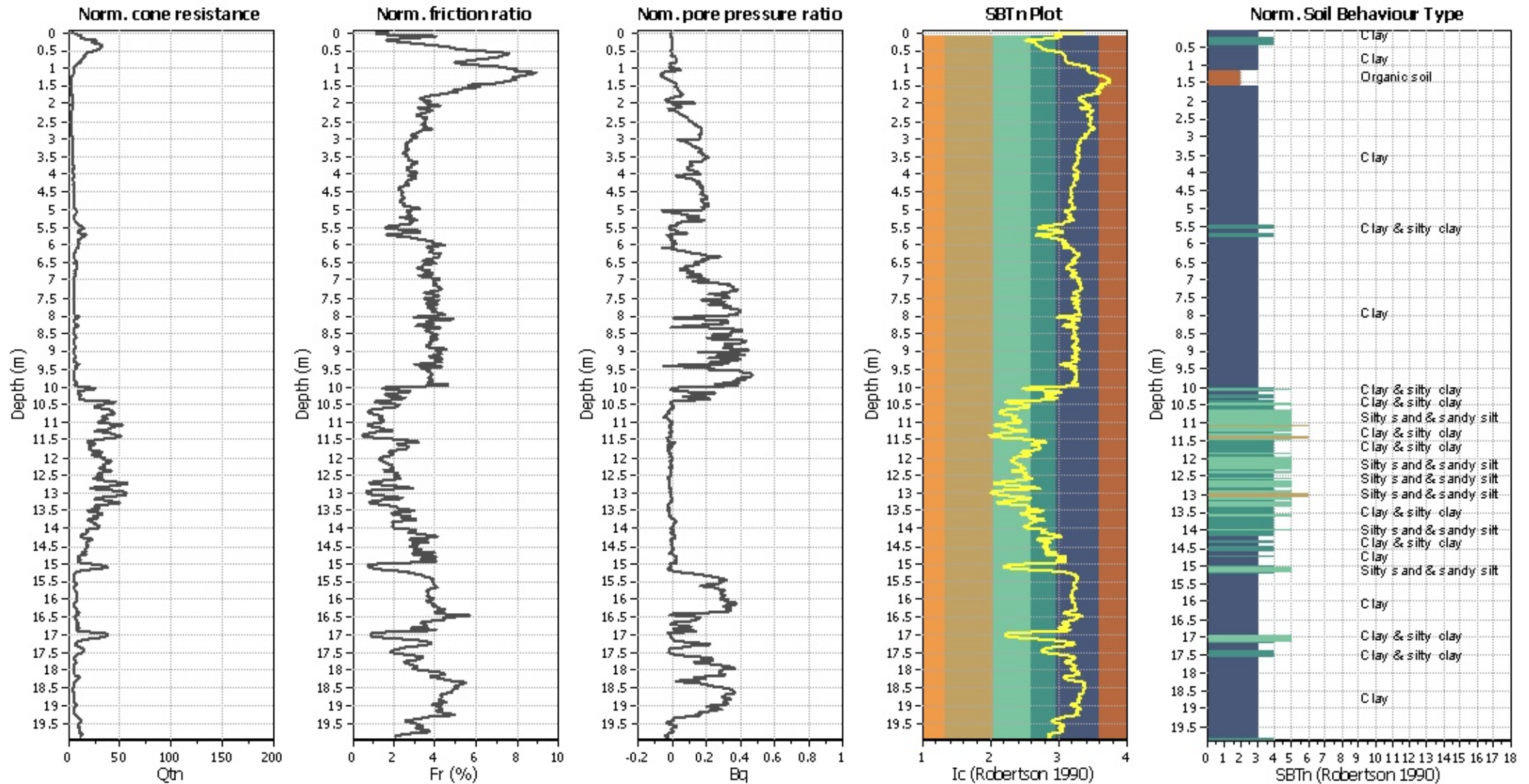
Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 5.50 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

SBT legend

| | | |
|---------------------------|-----------------------------|----------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty | 7. Gravely sand to sand |
| 2. Organic material | 5. Silty sand to sandy silt | 8. Very stiff sand to |
| 3. Clay to silty clay | 6. Clean sand to silty sand | 9. Very stiff fine grained |

CPT basic interpretation plots (normaliz



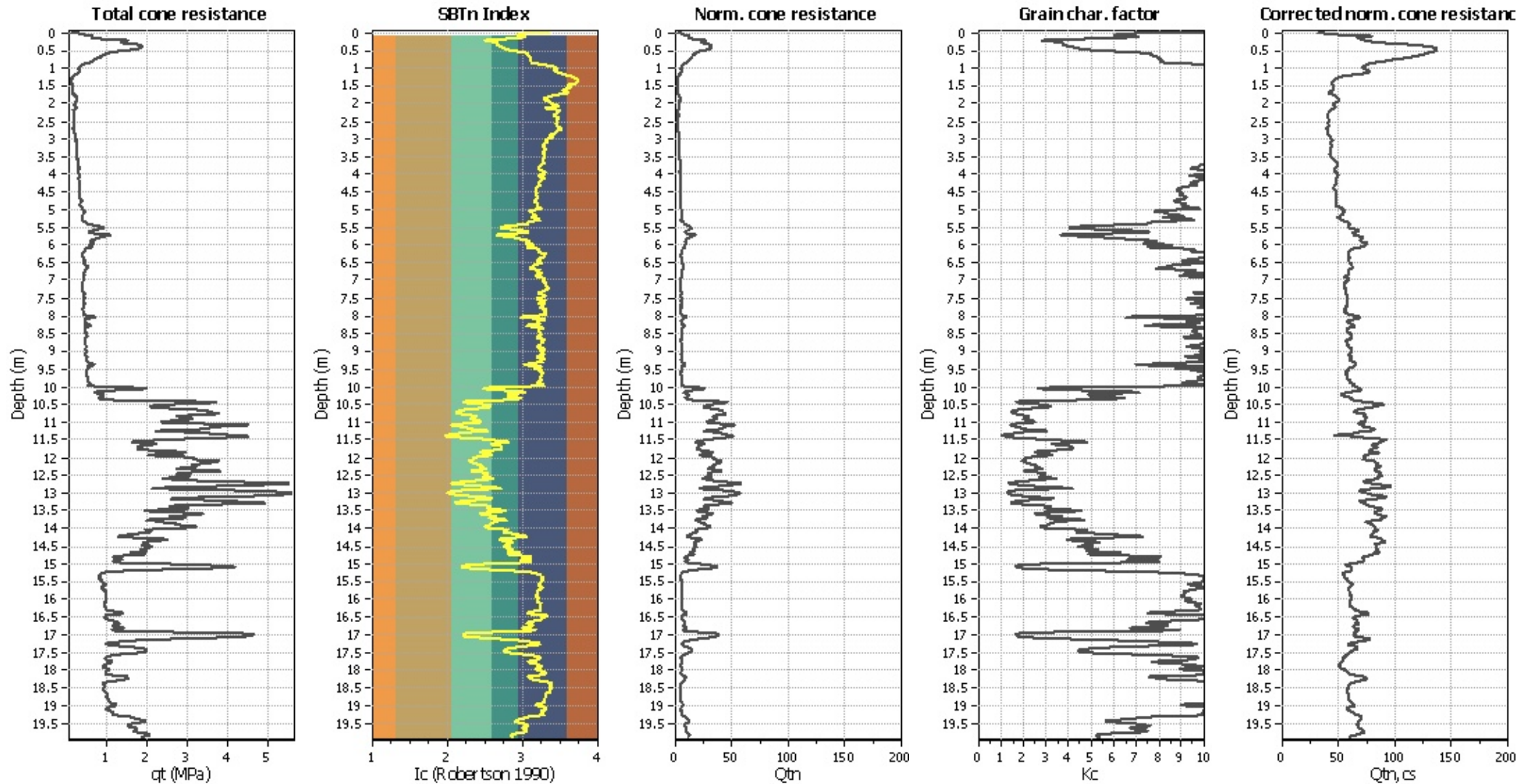
Input parameters and analysis data

| | | | | | |
|---------------------------------------|-------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K ₀ applied: | Yes |
| Earthquake magnitude M _w : | 5.50 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

SBTn legend

| | | |
|---------------------------|-----------------------------|----------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty | 7. Gravely sand to sand |
| 2. Organic material | 5. Silty sand to sandy silt | 8. Very stiff sand to |
| 3. Clay to silty clay | 6. Clean sand to silty sand | 9. Very stiff fine grained |

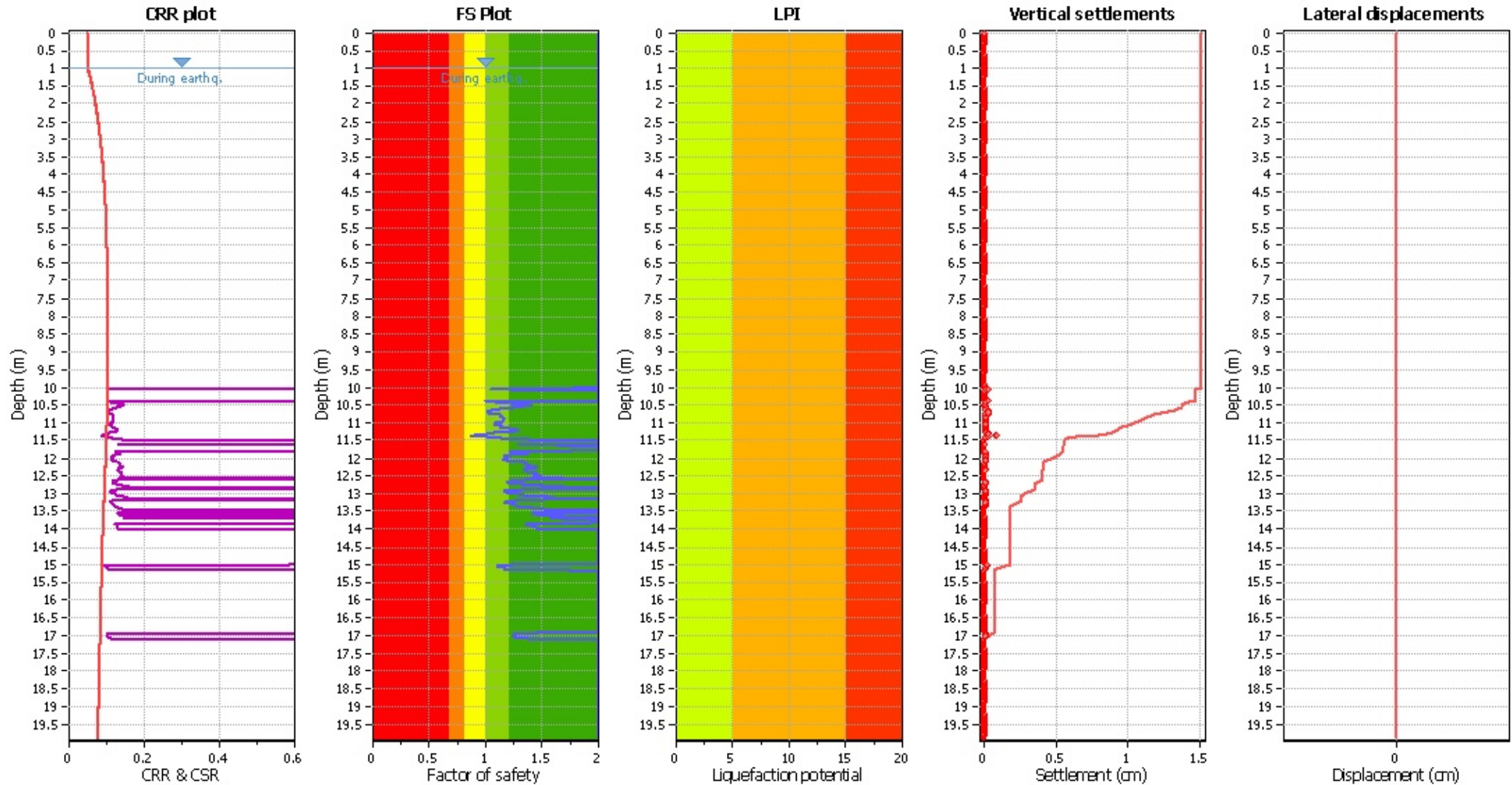
Liquefaction analysis overall plots (intermediate res)



Input parameters and analysis data

| | | | | | |
|---------------------------------------|-------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K ₀ applied: | Yes |
| Earthquake magnitude M _w : | 5.50 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

Liquefaction analysis overall plot



Input parameters and analysis data

| | | | | | |
|--------------------------------|-------------------|---------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (earthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 5.50 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

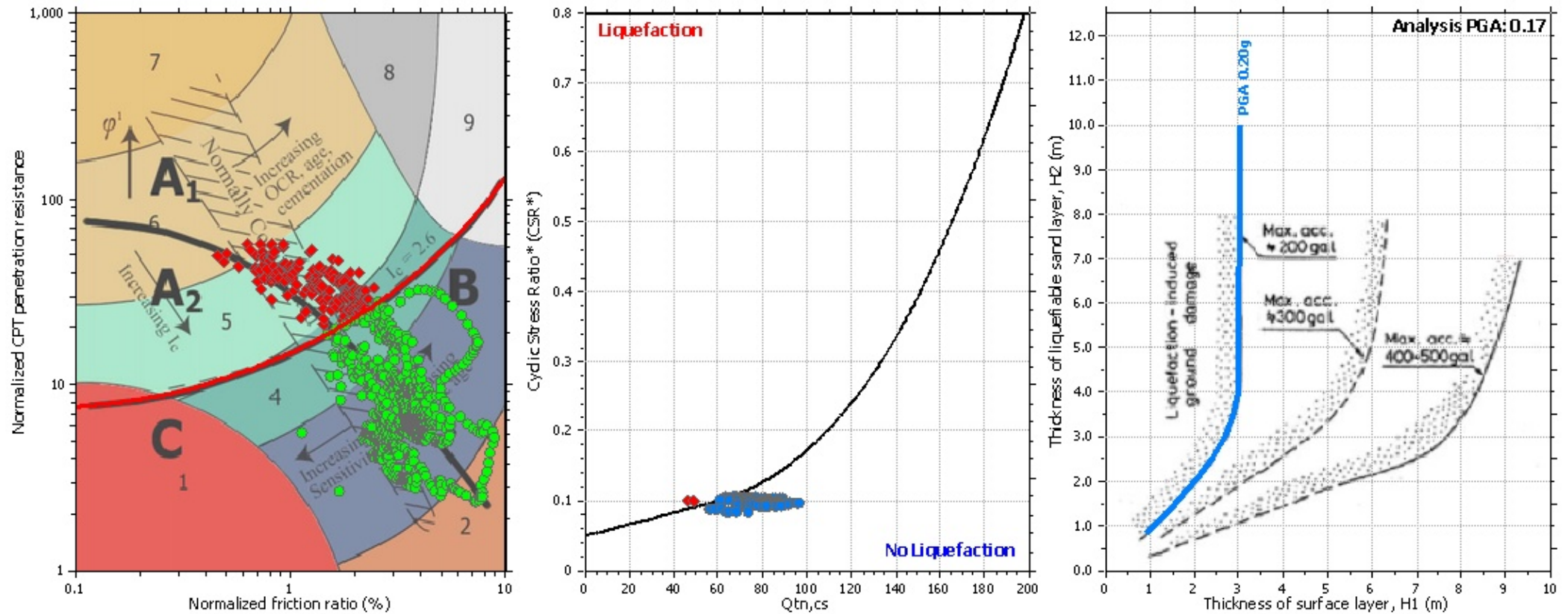
F.S. color scheme

| | |
|---|---|
| ■ | Almost certain it will liquefy |
| ■ | Very likely to liquefy |
| ■ | Liquefaction and no liq. are equally likely |
| ■ | Unlike to liquefy |
| ■ | Almost certain it will not liquefy |

LPI color scheme

| | |
|---------------------------------------|----------------|
| ■ | Very high risk |
| ■ | High risk |
| ■ | Low risk |

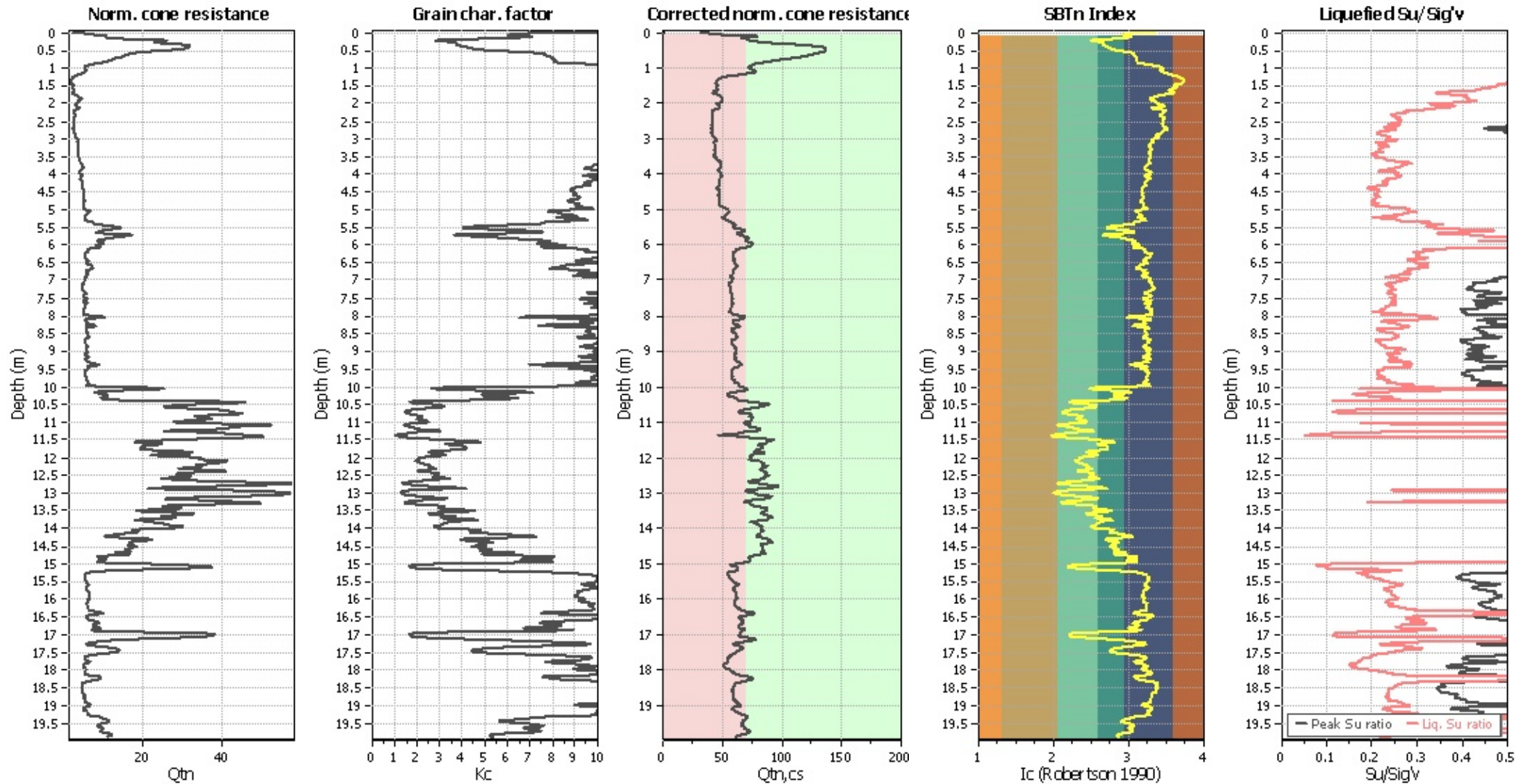
Liquefaction analysis summary plo



Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 5.50 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

Check for strength loss plots (Robertson (2010))



Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 5.50 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

| :: Liquefaction Potential Index calculation data :: | | | | | | | | | | | |
|---|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
| 0.02 | 2.00 | 0.00 | 9.99 | 0.02 | 0.00 | 0.04 | 2.00 | 0.00 | 9.98 | 0.02 | 0.00 |
| 0.06 | 2.00 | 0.00 | 9.97 | 0.02 | 0.00 | 0.08 | 2.00 | 0.00 | 9.96 | 0.02 | 0.00 |
| 0.10 | 2.00 | 0.00 | 9.95 | 0.02 | 0.00 | 0.12 | 2.00 | 0.00 | 9.94 | 0.02 | 0.00 |
| 0.14 | 2.00 | 0.00 | 9.93 | 0.02 | 0.00 | 0.16 | 2.00 | 0.00 | 9.92 | 0.02 | 0.00 |
| 0.18 | 2.00 | 0.00 | 9.91 | 0.02 | 0.00 | 0.20 | 2.00 | 0.00 | 9.90 | 0.02 | 0.00 |
| 0.22 | 2.00 | 0.00 | 9.89 | 0.02 | 0.00 | 0.24 | 2.00 | 0.00 | 9.88 | 0.02 | 0.00 |
| 0.26 | 2.00 | 0.00 | 9.87 | 0.02 | 0.00 | 0.28 | 2.00 | 0.00 | 9.86 | 0.02 | 0.00 |
| 0.30 | 2.00 | 0.00 | 9.85 | 0.02 | 0.00 | 0.32 | 2.00 | 0.00 | 9.84 | 0.02 | 0.00 |
| 0.34 | 2.00 | 0.00 | 9.83 | 0.02 | 0.00 | 0.36 | 2.00 | 0.00 | 9.82 | 0.02 | 0.00 |
| 0.38 | 2.00 | 0.00 | 9.81 | 0.02 | 0.00 | 0.40 | 2.00 | 0.00 | 9.80 | 0.02 | 0.00 |
| 0.42 | 2.00 | 0.00 | 9.79 | 0.02 | 0.00 | 0.44 | 2.00 | 0.00 | 9.78 | 0.02 | 0.00 |
| 0.46 | 2.00 | 0.00 | 9.77 | 0.02 | 0.00 | 0.48 | 2.00 | 0.00 | 9.76 | 0.02 | 0.00 |
| 0.50 | 2.00 | 0.00 | 9.75 | 0.02 | 0.00 | 0.52 | 2.00 | 0.00 | 9.74 | 0.02 | 0.00 |
| 0.54 | 2.00 | 0.00 | 9.73 | 0.02 | 0.00 | 0.56 | 2.00 | 0.00 | 9.72 | 0.02 | 0.00 |
| 0.58 | 2.00 | 0.00 | 9.71 | 0.02 | 0.00 | 0.60 | 2.00 | 0.00 | 9.70 | 0.02 | 0.00 |
| 0.62 | 2.00 | 0.00 | 9.69 | 0.02 | 0.00 | 0.64 | 2.00 | 0.00 | 9.68 | 0.02 | 0.00 |
| 0.66 | 2.00 | 0.00 | 9.67 | 0.02 | 0.00 | 0.68 | 2.00 | 0.00 | 9.66 | 0.02 | 0.00 |
| 0.70 | 2.00 | 0.00 | 9.65 | 0.02 | 0.00 | 0.72 | 2.00 | 0.00 | 9.64 | 0.02 | 0.00 |
| 0.74 | 2.00 | 0.00 | 9.63 | 0.02 | 0.00 | 0.76 | 2.00 | 0.00 | 9.62 | 0.02 | 0.00 |
| 0.78 | 2.00 | 0.00 | 9.61 | 0.02 | 0.00 | 0.80 | 2.00 | 0.00 | 9.60 | 0.02 | 0.00 |
| 0.82 | 2.00 | 0.00 | 9.59 | 0.02 | 0.00 | 0.84 | 2.00 | 0.00 | 9.58 | 0.02 | 0.00 |
| 0.86 | 2.00 | 0.00 | 9.57 | 0.02 | 0.00 | 0.88 | 2.00 | 0.00 | 9.56 | 0.02 | 0.00 |
| 0.90 | 2.00 | 0.00 | 9.55 | 0.02 | 0.00 | 0.92 | 2.00 | 0.00 | 9.54 | 0.02 | 0.00 |
| 0.94 | 2.00 | 0.00 | 9.53 | 0.02 | 0.00 | 0.96 | 2.00 | 0.00 | 9.52 | 0.02 | 0.00 |
| 0.98 | 2.00 | 0.00 | 9.51 | 0.02 | 0.00 | 1.00 | 2.00 | 0.00 | 9.50 | 0.02 | 0.00 |
| 1.02 | 2.00 | 0.00 | 9.49 | 0.02 | 0.00 | 1.04 | 2.00 | 0.00 | 9.48 | 0.02 | 0.00 |
| 1.06 | 2.00 | 0.00 | 9.47 | 0.02 | 0.00 | 1.08 | 2.00 | 0.00 | 9.46 | 0.02 | 0.00 |
| 1.10 | 2.00 | 0.00 | 9.45 | 0.02 | 0.00 | 1.12 | 2.00 | 0.00 | 9.44 | 0.02 | 0.00 |
| 1.14 | 2.00 | 0.00 | 9.43 | 0.02 | 0.00 | 1.16 | 2.00 | 0.00 | 9.42 | 0.02 | 0.00 |
| 1.18 | 2.00 | 0.00 | 9.41 | 0.02 | 0.00 | 1.20 | 2.00 | 0.00 | 9.40 | 0.02 | 0.00 |
| 1.22 | 2.00 | 0.00 | 9.39 | 0.02 | 0.00 | 1.24 | 2.00 | 0.00 | 9.38 | 0.02 | 0.00 |
| 1.26 | 2.00 | 0.00 | 9.37 | 0.02 | 0.00 | 1.28 | 2.00 | 0.00 | 9.36 | 0.02 | 0.00 |
| 1.30 | 2.00 | 0.00 | 9.35 | 0.02 | 0.00 | 1.32 | 2.00 | 0.00 | 9.34 | 0.02 | 0.00 |
| 1.34 | 2.00 | 0.00 | 9.33 | 0.02 | 0.00 | 1.36 | 2.00 | 0.00 | 9.32 | 0.02 | 0.00 |
| 1.38 | 2.00 | 0.00 | 9.31 | 0.02 | 0.00 | 1.40 | 2.00 | 0.00 | 9.30 | 0.02 | 0.00 |
| 1.42 | 2.00 | 0.00 | 9.29 | 0.02 | 0.00 | 1.44 | 2.00 | 0.00 | 9.28 | 0.02 | 0.00 |
| 1.46 | 2.00 | 0.00 | 9.27 | 0.02 | 0.00 | 1.48 | 2.00 | 0.00 | 9.26 | 0.02 | 0.00 |
| 1.50 | 2.00 | 0.00 | 9.25 | 0.02 | 0.00 | 1.52 | 2.00 | 0.00 | 9.24 | 0.02 | 0.00 |
| 1.54 | 2.00 | 0.00 | 9.23 | 0.02 | 0.00 | 1.56 | 2.00 | 0.00 | 9.22 | 0.02 | 0.00 |
| 1.58 | 2.00 | 0.00 | 9.21 | 0.02 | 0.00 | 1.60 | 2.00 | 0.00 | 9.20 | 0.02 | 0.00 |
| 1.62 | 2.00 | 0.00 | 9.19 | 0.02 | 0.00 | 1.64 | 2.00 | 0.00 | 9.18 | 0.02 | 0.00 |
| 1.66 | 2.00 | 0.00 | 9.17 | 0.02 | 0.00 | 1.68 | 2.00 | 0.00 | 9.16 | 0.02 | 0.00 |
| 1.70 | 2.00 | 0.00 | 9.15 | 0.02 | 0.00 | 1.72 | 2.00 | 0.00 | 9.14 | 0.02 | 0.00 |
| 1.74 | 2.00 | 0.00 | 9.13 | 0.02 | 0.00 | 1.76 | 2.00 | 0.00 | 9.12 | 0.02 | 0.00 |
| 1.78 | 2.00 | 0.00 | 9.11 | 0.02 | 0.00 | 1.80 | 2.00 | 0.00 | 9.10 | 0.02 | 0.00 |
| 1.82 | 2.00 | 0.00 | 9.09 | 0.02 | 0.00 | 1.84 | 2.00 | 0.00 | 9.08 | 0.02 | 0.00 |
| 1.86 | 2.00 | 0.00 | 9.07 | 0.02 | 0.00 | 1.88 | 2.00 | 0.00 | 9.06 | 0.02 | 0.00 |
| 1.90 | 2.00 | 0.00 | 9.05 | 0.02 | 0.00 | 1.92 | 2.00 | 0.00 | 9.04 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 1.94 | 2.00 | 0.00 | 9.03 | 0.02 | 0.00 | 1.96 | 2.00 | 0.00 | 9.02 | 0.02 | 0.00 |
| 1.98 | 2.00 | 0.00 | 9.01 | 0.02 | 0.00 | 2.00 | 2.00 | 0.00 | 9.00 | 0.02 | 0.00 |
| 2.02 | 2.00 | 0.00 | 8.99 | 0.02 | 0.00 | 2.04 | 2.00 | 0.00 | 8.98 | 0.02 | 0.00 |
| 2.06 | 2.00 | 0.00 | 8.97 | 0.02 | 0.00 | 2.08 | 2.00 | 0.00 | 8.96 | 0.02 | 0.00 |
| 2.10 | 2.00 | 0.00 | 8.95 | 0.02 | 0.00 | 2.12 | 2.00 | 0.00 | 8.94 | 0.02 | 0.00 |
| 2.14 | 2.00 | 0.00 | 8.93 | 0.02 | 0.00 | 2.16 | 2.00 | 0.00 | 8.92 | 0.02 | 0.00 |
| 2.18 | 2.00 | 0.00 | 8.91 | 0.02 | 0.00 | 2.20 | 2.00 | 0.00 | 8.90 | 0.02 | 0.00 |
| 2.22 | 2.00 | 0.00 | 8.89 | 0.02 | 0.00 | 2.24 | 2.00 | 0.00 | 8.88 | 0.02 | 0.00 |
| 2.26 | 2.00 | 0.00 | 8.87 | 0.02 | 0.00 | 2.28 | 2.00 | 0.00 | 8.86 | 0.02 | 0.00 |
| 2.30 | 2.00 | 0.00 | 8.85 | 0.02 | 0.00 | 2.32 | 2.00 | 0.00 | 8.84 | 0.02 | 0.00 |
| 2.34 | 2.00 | 0.00 | 8.83 | 0.02 | 0.00 | 2.36 | 2.00 | 0.00 | 8.82 | 0.02 | 0.00 |
| 2.38 | 2.00 | 0.00 | 8.81 | 0.02 | 0.00 | 2.40 | 2.00 | 0.00 | 8.80 | 0.02 | 0.00 |
| 2.42 | 2.00 | 0.00 | 8.79 | 0.02 | 0.00 | 2.44 | 2.00 | 0.00 | 8.78 | 0.02 | 0.00 |
| 2.46 | 2.00 | 0.00 | 8.77 | 0.02 | 0.00 | 2.48 | 2.00 | 0.00 | 8.76 | 0.02 | 0.00 |
| 2.50 | 2.00 | 0.00 | 8.75 | 0.02 | 0.00 | 2.52 | 2.00 | 0.00 | 8.74 | 0.02 | 0.00 |
| 2.54 | 2.00 | 0.00 | 8.73 | 0.02 | 0.00 | 2.56 | 2.00 | 0.00 | 8.72 | 0.02 | 0.00 |
| 2.58 | 2.00 | 0.00 | 8.71 | 0.02 | 0.00 | 2.60 | 2.00 | 0.00 | 8.70 | 0.02 | 0.00 |
| 2.62 | 2.00 | 0.00 | 8.69 | 0.02 | 0.00 | 2.64 | 2.00 | 0.00 | 8.68 | 0.02 | 0.00 |
| 2.66 | 2.00 | 0.00 | 8.67 | 0.02 | 0.00 | 2.68 | 2.00 | 0.00 | 8.66 | 0.02 | 0.00 |
| 2.70 | 2.00 | 0.00 | 8.65 | 0.02 | 0.00 | 2.72 | 2.00 | 0.00 | 8.64 | 0.02 | 0.00 |
| 2.74 | 2.00 | 0.00 | 8.63 | 0.02 | 0.00 | 2.76 | 2.00 | 0.00 | 8.62 | 0.02 | 0.00 |
| 2.78 | 2.00 | 0.00 | 8.61 | 0.02 | 0.00 | 2.80 | 2.00 | 0.00 | 8.60 | 0.02 | 0.00 |
| 2.82 | 2.00 | 0.00 | 8.59 | 0.02 | 0.00 | 2.84 | 2.00 | 0.00 | 8.58 | 0.02 | 0.00 |
| 2.86 | 2.00 | 0.00 | 8.57 | 0.02 | 0.00 | 2.88 | 2.00 | 0.00 | 8.56 | 0.02 | 0.00 |
| 2.90 | 2.00 | 0.00 | 8.55 | 0.02 | 0.00 | 2.92 | 2.00 | 0.00 | 8.54 | 0.02 | 0.00 |
| 2.94 | 2.00 | 0.00 | 8.53 | 0.02 | 0.00 | 2.96 | 2.00 | 0.00 | 8.52 | 0.02 | 0.00 |
| 2.98 | 2.00 | 0.00 | 8.51 | 0.02 | 0.00 | 3.00 | 2.00 | 0.00 | 8.50 | 0.02 | 0.00 |
| 3.02 | 2.00 | 0.00 | 8.49 | 0.02 | 0.00 | 3.04 | 2.00 | 0.00 | 8.48 | 0.02 | 0.00 |
| 3.06 | 2.00 | 0.00 | 8.47 | 0.02 | 0.00 | 3.08 | 2.00 | 0.00 | 8.46 | 0.02 | 0.00 |
| 3.10 | 2.00 | 0.00 | 8.45 | 0.02 | 0.00 | 3.12 | 2.00 | 0.00 | 8.44 | 0.02 | 0.00 |
| 3.14 | 2.00 | 0.00 | 8.43 | 0.02 | 0.00 | 3.16 | 2.00 | 0.00 | 8.42 | 0.02 | 0.00 |
| 3.18 | 2.00 | 0.00 | 8.41 | 0.02 | 0.00 | 3.20 | 2.00 | 0.00 | 8.40 | 0.02 | 0.00 |
| 3.22 | 2.00 | 0.00 | 8.39 | 0.02 | 0.00 | 3.24 | 2.00 | 0.00 | 8.38 | 0.02 | 0.00 |
| 3.26 | 2.00 | 0.00 | 8.37 | 0.02 | 0.00 | 3.28 | 2.00 | 0.00 | 8.36 | 0.02 | 0.00 |
| 3.30 | 2.00 | 0.00 | 8.35 | 0.02 | 0.00 | 3.32 | 2.00 | 0.00 | 8.34 | 0.02 | 0.00 |
| 3.34 | 2.00 | 0.00 | 8.33 | 0.02 | 0.00 | 3.36 | 2.00 | 0.00 | 8.32 | 0.02 | 0.00 |
| 3.38 | 2.00 | 0.00 | 8.31 | 0.02 | 0.00 | 3.40 | 2.00 | 0.00 | 8.30 | 0.02 | 0.00 |
| 3.42 | 2.00 | 0.00 | 8.29 | 0.02 | 0.00 | 3.44 | 2.00 | 0.00 | 8.28 | 0.02 | 0.00 |
| 3.46 | 2.00 | 0.00 | 8.27 | 0.02 | 0.00 | 3.48 | 2.00 | 0.00 | 8.26 | 0.02 | 0.00 |
| 3.50 | 2.00 | 0.00 | 8.25 | 0.02 | 0.00 | 3.52 | 2.00 | 0.00 | 8.24 | 0.02 | 0.00 |
| 3.54 | 2.00 | 0.00 | 8.23 | 0.02 | 0.00 | 3.56 | 2.00 | 0.00 | 8.22 | 0.02 | 0.00 |
| 3.58 | 2.00 | 0.00 | 8.21 | 0.02 | 0.00 | 3.60 | 2.00 | 0.00 | 8.20 | 0.02 | 0.00 |
| 3.62 | 2.00 | 0.00 | 8.19 | 0.02 | 0.00 | 3.64 | 2.00 | 0.00 | 8.18 | 0.02 | 0.00 |
| 3.66 | 2.00 | 0.00 | 8.17 | 0.02 | 0.00 | 3.68 | 2.00 | 0.00 | 8.16 | 0.02 | 0.00 |
| 3.70 | 2.00 | 0.00 | 8.15 | 0.02 | 0.00 | 3.72 | 2.00 | 0.00 | 8.14 | 0.02 | 0.00 |
| 3.74 | 2.00 | 0.00 | 8.13 | 0.02 | 0.00 | 3.76 | 2.00 | 0.00 | 8.12 | 0.02 | 0.00 |
| 3.78 | 2.00 | 0.00 | 8.11 | 0.02 | 0.00 | 3.80 | 2.00 | 0.00 | 8.10 | 0.02 | 0.00 |
| 3.82 | 2.00 | 0.00 | 8.09 | 0.02 | 0.00 | 3.84 | 2.00 | 0.00 | 8.08 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 3.86 | 2.00 | 0.00 | 8.07 | 0.02 | 0.00 | 3.88 | 2.00 | 0.00 | 8.06 | 0.02 | 0.00 |
| 3.90 | 2.00 | 0.00 | 8.05 | 0.02 | 0.00 | 3.92 | 2.00 | 0.00 | 8.04 | 0.02 | 0.00 |
| 3.94 | 2.00 | 0.00 | 8.03 | 0.02 | 0.00 | 3.96 | 2.00 | 0.00 | 8.02 | 0.02 | 0.00 |
| 3.98 | 2.00 | 0.00 | 8.01 | 0.02 | 0.00 | 4.00 | 2.00 | 0.00 | 8.00 | 0.02 | 0.00 |
| 4.02 | 2.00 | 0.00 | 7.99 | 0.02 | 0.00 | 4.04 | 2.00 | 0.00 | 7.98 | 0.02 | 0.00 |
| 4.06 | 2.00 | 0.00 | 7.97 | 0.02 | 0.00 | 4.08 | 2.00 | 0.00 | 7.96 | 0.02 | 0.00 |
| 4.10 | 2.00 | 0.00 | 7.95 | 0.02 | 0.00 | 4.12 | 2.00 | 0.00 | 7.94 | 0.02 | 0.00 |
| 4.14 | 2.00 | 0.00 | 7.93 | 0.02 | 0.00 | 4.16 | 2.00 | 0.00 | 7.92 | 0.02 | 0.00 |
| 4.18 | 2.00 | 0.00 | 7.91 | 0.02 | 0.00 | 4.20 | 2.00 | 0.00 | 7.90 | 0.02 | 0.00 |
| 4.22 | 2.00 | 0.00 | 7.89 | 0.02 | 0.00 | 4.24 | 2.00 | 0.00 | 7.88 | 0.02 | 0.00 |
| 4.26 | 2.00 | 0.00 | 7.87 | 0.02 | 0.00 | 4.28 | 2.00 | 0.00 | 7.86 | 0.02 | 0.00 |
| 4.30 | 2.00 | 0.00 | 7.85 | 0.02 | 0.00 | 4.32 | 2.00 | 0.00 | 7.84 | 0.02 | 0.00 |
| 4.34 | 2.00 | 0.00 | 7.83 | 0.02 | 0.00 | 4.36 | 2.00 | 0.00 | 7.82 | 0.02 | 0.00 |
| 4.38 | 2.00 | 0.00 | 7.81 | 0.02 | 0.00 | 4.40 | 2.00 | 0.00 | 7.80 | 0.02 | 0.00 |
| 4.42 | 2.00 | 0.00 | 7.79 | 0.02 | 0.00 | 4.44 | 2.00 | 0.00 | 7.78 | 0.02 | 0.00 |
| 4.46 | 2.00 | 0.00 | 7.77 | 0.02 | 0.00 | 4.48 | 2.00 | 0.00 | 7.76 | 0.02 | 0.00 |
| 4.50 | 2.00 | 0.00 | 7.75 | 0.02 | 0.00 | 4.52 | 2.00 | 0.00 | 7.74 | 0.02 | 0.00 |
| 4.54 | 2.00 | 0.00 | 7.73 | 0.02 | 0.00 | 4.56 | 2.00 | 0.00 | 7.72 | 0.02 | 0.00 |
| 4.58 | 2.00 | 0.00 | 7.71 | 0.02 | 0.00 | 4.60 | 2.00 | 0.00 | 7.70 | 0.02 | 0.00 |
| 4.62 | 2.00 | 0.00 | 7.69 | 0.02 | 0.00 | 4.64 | 2.00 | 0.00 | 7.68 | 0.02 | 0.00 |
| 4.66 | 2.00 | 0.00 | 7.67 | 0.02 | 0.00 | 4.68 | 2.00 | 0.00 | 7.66 | 0.02 | 0.00 |
| 4.70 | 2.00 | 0.00 | 7.65 | 0.02 | 0.00 | 4.72 | 2.00 | 0.00 | 7.64 | 0.02 | 0.00 |
| 4.74 | 2.00 | 0.00 | 7.63 | 0.02 | 0.00 | 4.76 | 2.00 | 0.00 | 7.62 | 0.02 | 0.00 |
| 4.78 | 2.00 | 0.00 | 7.61 | 0.02 | 0.00 | 4.80 | 2.00 | 0.00 | 7.60 | 0.02 | 0.00 |
| 4.82 | 2.00 | 0.00 | 7.59 | 0.02 | 0.00 | 4.84 | 2.00 | 0.00 | 7.58 | 0.02 | 0.00 |
| 4.86 | 2.00 | 0.00 | 7.57 | 0.02 | 0.00 | 4.88 | 2.00 | 0.00 | 7.56 | 0.02 | 0.00 |
| 4.90 | 2.00 | 0.00 | 7.55 | 0.02 | 0.00 | 4.92 | 2.00 | 0.00 | 7.54 | 0.02 | 0.00 |
| 4.94 | 2.00 | 0.00 | 7.53 | 0.02 | 0.00 | 4.96 | 2.00 | 0.00 | 7.52 | 0.02 | 0.00 |
| 4.98 | 2.00 | 0.00 | 7.51 | 0.02 | 0.00 | 5.00 | 2.00 | 0.00 | 7.50 | 0.02 | 0.00 |
| 5.02 | 2.00 | 0.00 | 7.49 | 0.02 | 0.00 | 5.04 | 2.00 | 0.00 | 7.48 | 0.02 | 0.00 |
| 5.06 | 2.00 | 0.00 | 7.47 | 0.02 | 0.00 | 5.08 | 2.00 | 0.00 | 7.46 | 0.02 | 0.00 |
| 5.10 | 2.00 | 0.00 | 7.45 | 0.02 | 0.00 | 5.12 | 2.00 | 0.00 | 7.44 | 0.02 | 0.00 |
| 5.14 | 2.00 | 0.00 | 7.43 | 0.02 | 0.00 | 5.16 | 2.00 | 0.00 | 7.42 | 0.02 | 0.00 |
| 5.18 | 2.00 | 0.00 | 7.41 | 0.02 | 0.00 | 5.20 | 2.00 | 0.00 | 7.40 | 0.02 | 0.00 |
| 5.22 | 2.00 | 0.00 | 7.39 | 0.02 | 0.00 | 5.24 | 2.00 | 0.00 | 7.38 | 0.02 | 0.00 |
| 5.26 | 2.00 | 0.00 | 7.37 | 0.02 | 0.00 | 5.28 | 2.00 | 0.00 | 7.36 | 0.02 | 0.00 |
| 5.30 | 2.00 | 0.00 | 7.35 | 0.02 | 0.00 | 5.32 | 2.00 | 0.00 | 7.34 | 0.02 | 0.00 |
| 5.34 | 2.00 | 0.00 | 7.33 | 0.02 | 0.00 | 5.36 | 2.00 | 0.00 | 7.32 | 0.02 | 0.00 |
| 5.38 | 2.00 | 0.00 | 7.31 | 0.02 | 0.00 | 5.40 | 2.00 | 0.00 | 7.30 | 0.02 | 0.00 |
| 5.42 | 2.00 | 0.00 | 7.29 | 0.02 | 0.00 | 5.44 | 2.00 | 0.00 | 7.28 | 0.02 | 0.00 |
| 5.46 | 2.00 | 0.00 | 7.27 | 0.02 | 0.00 | 5.48 | 2.00 | 0.00 | 7.26 | 0.02 | 0.00 |
| 5.50 | 2.00 | 0.00 | 7.25 | 0.02 | 0.00 | 5.52 | 2.00 | 0.00 | 7.24 | 0.02 | 0.00 |
| 5.54 | 2.00 | 0.00 | 7.23 | 0.02 | 0.00 | 5.56 | 2.00 | 0.00 | 7.22 | 0.02 | 0.00 |
| 5.58 | 2.00 | 0.00 | 7.21 | 0.02 | 0.00 | 5.60 | 2.00 | 0.00 | 7.20 | 0.02 | 0.00 |
| 5.62 | 2.00 | 0.00 | 7.19 | 0.02 | 0.00 | 5.64 | 2.00 | 0.00 | 7.18 | 0.02 | 0.00 |
| 5.66 | 2.00 | 0.00 | 7.17 | 0.02 | 0.00 | 5.68 | 2.00 | 0.00 | 7.16 | 0.02 | 0.00 |
| 5.70 | 2.00 | 0.00 | 7.15 | 0.02 | 0.00 | 5.72 | 2.00 | 0.00 | 7.14 | 0.02 | 0.00 |
| 5.74 | 2.00 | 0.00 | 7.13 | 0.02 | 0.00 | 5.76 | 2.00 | 0.00 | 7.12 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 5.78 | 2.00 | 0.00 | 7.11 | 0.02 | 0.00 | 5.80 | 2.00 | 0.00 | 7.10 | 0.02 | 0.00 |
| 5.82 | 2.00 | 0.00 | 7.09 | 0.02 | 0.00 | 5.84 | 2.00 | 0.00 | 7.08 | 0.02 | 0.00 |
| 5.86 | 2.00 | 0.00 | 7.07 | 0.02 | 0.00 | 5.88 | 2.00 | 0.00 | 7.06 | 0.02 | 0.00 |
| 5.90 | 2.00 | 0.00 | 7.05 | 0.02 | 0.00 | 5.92 | 2.00 | 0.00 | 7.04 | 0.02 | 0.00 |
| 5.94 | 2.00 | 0.00 | 7.03 | 0.02 | 0.00 | 5.96 | 2.00 | 0.00 | 7.02 | 0.02 | 0.00 |
| 5.98 | 2.00 | 0.00 | 7.01 | 0.02 | 0.00 | 6.00 | 2.00 | 0.00 | 7.00 | 0.02 | 0.00 |
| 6.02 | 2.00 | 0.00 | 6.99 | 0.02 | 0.00 | 6.04 | 2.00 | 0.00 | 6.98 | 0.02 | 0.00 |
| 6.06 | 2.00 | 0.00 | 6.97 | 0.02 | 0.00 | 6.08 | 2.00 | 0.00 | 6.96 | 0.02 | 0.00 |
| 6.10 | 2.00 | 0.00 | 6.95 | 0.02 | 0.00 | 6.12 | 2.00 | 0.00 | 6.94 | 0.02 | 0.00 |
| 6.14 | 2.00 | 0.00 | 6.93 | 0.02 | 0.00 | 6.16 | 2.00 | 0.00 | 6.92 | 0.02 | 0.00 |
| 6.18 | 2.00 | 0.00 | 6.91 | 0.02 | 0.00 | 6.20 | 2.00 | 0.00 | 6.90 | 0.02 | 0.00 |
| 6.22 | 2.00 | 0.00 | 6.89 | 0.02 | 0.00 | 6.24 | 2.00 | 0.00 | 6.88 | 0.02 | 0.00 |
| 6.26 | 2.00 | 0.00 | 6.87 | 0.02 | 0.00 | 6.28 | 2.00 | 0.00 | 6.86 | 0.02 | 0.00 |
| 6.30 | 2.00 | 0.00 | 6.85 | 0.02 | 0.00 | 6.32 | 2.00 | 0.00 | 6.84 | 0.02 | 0.00 |
| 6.34 | 2.00 | 0.00 | 6.83 | 0.02 | 0.00 | 6.36 | 2.00 | 0.00 | 6.82 | 0.02 | 0.00 |
| 6.38 | 2.00 | 0.00 | 6.81 | 0.02 | 0.00 | 6.40 | 2.00 | 0.00 | 6.80 | 0.02 | 0.00 |
| 6.42 | 2.00 | 0.00 | 6.79 | 0.02 | 0.00 | 6.44 | 2.00 | 0.00 | 6.78 | 0.02 | 0.00 |
| 6.46 | 2.00 | 0.00 | 6.77 | 0.02 | 0.00 | 6.48 | 2.00 | 0.00 | 6.76 | 0.02 | 0.00 |
| 6.50 | 2.00 | 0.00 | 6.75 | 0.02 | 0.00 | 6.52 | 2.00 | 0.00 | 6.74 | 0.02 | 0.00 |
| 6.54 | 2.00 | 0.00 | 6.73 | 0.02 | 0.00 | 6.56 | 2.00 | 0.00 | 6.72 | 0.02 | 0.00 |
| 6.58 | 2.00 | 0.00 | 6.71 | 0.02 | 0.00 | 6.60 | 2.00 | 0.00 | 6.70 | 0.02 | 0.00 |
| 6.62 | 2.00 | 0.00 | 6.69 | 0.02 | 0.00 | 6.64 | 2.00 | 0.00 | 6.68 | 0.02 | 0.00 |
| 6.66 | 2.00 | 0.00 | 6.67 | 0.02 | 0.00 | 6.68 | 2.00 | 0.00 | 6.66 | 0.02 | 0.00 |
| 6.70 | 2.00 | 0.00 | 6.65 | 0.02 | 0.00 | 6.72 | 2.00 | 0.00 | 6.64 | 0.02 | 0.00 |
| 6.74 | 2.00 | 0.00 | 6.63 | 0.02 | 0.00 | 6.76 | 2.00 | 0.00 | 6.62 | 0.02 | 0.00 |
| 6.78 | 2.00 | 0.00 | 6.61 | 0.02 | 0.00 | 6.80 | 2.00 | 0.00 | 6.60 | 0.02 | 0.00 |
| 6.82 | 2.00 | 0.00 | 6.59 | 0.02 | 0.00 | 6.84 | 2.00 | 0.00 | 6.58 | 0.02 | 0.00 |
| 6.86 | 2.00 | 0.00 | 6.57 | 0.02 | 0.00 | 6.88 | 2.00 | 0.00 | 6.56 | 0.02 | 0.00 |
| 6.90 | 2.00 | 0.00 | 6.55 | 0.02 | 0.00 | 6.92 | 2.00 | 0.00 | 6.54 | 0.02 | 0.00 |
| 6.94 | 2.00 | 0.00 | 6.53 | 0.02 | 0.00 | 6.96 | 2.00 | 0.00 | 6.52 | 0.02 | 0.00 |
| 6.98 | 2.00 | 0.00 | 6.51 | 0.02 | 0.00 | 7.00 | 2.00 | 0.00 | 6.50 | 0.02 | 0.00 |
| 7.02 | 2.00 | 0.00 | 6.49 | 0.02 | 0.00 | 7.04 | 2.00 | 0.00 | 6.48 | 0.02 | 0.00 |
| 7.06 | 2.00 | 0.00 | 6.47 | 0.02 | 0.00 | 7.08 | 2.00 | 0.00 | 6.46 | 0.02 | 0.00 |
| 7.10 | 2.00 | 0.00 | 6.45 | 0.02 | 0.00 | 7.12 | 2.00 | 0.00 | 6.44 | 0.02 | 0.00 |
| 7.14 | 2.00 | 0.00 | 6.43 | 0.02 | 0.00 | 7.16 | 2.00 | 0.00 | 6.42 | 0.02 | 0.00 |
| 7.18 | 2.00 | 0.00 | 6.41 | 0.02 | 0.00 | 7.20 | 2.00 | 0.00 | 6.40 | 0.02 | 0.00 |
| 7.22 | 2.00 | 0.00 | 6.39 | 0.02 | 0.00 | 7.24 | 2.00 | 0.00 | 6.38 | 0.02 | 0.00 |
| 7.26 | 2.00 | 0.00 | 6.37 | 0.02 | 0.00 | 7.28 | 2.00 | 0.00 | 6.36 | 0.02 | 0.00 |
| 7.30 | 2.00 | 0.00 | 6.35 | 0.02 | 0.00 | 7.32 | 2.00 | 0.00 | 6.34 | 0.02 | 0.00 |
| 7.34 | 2.00 | 0.00 | 6.33 | 0.02 | 0.00 | 7.36 | 2.00 | 0.00 | 6.32 | 0.02 | 0.00 |
| 7.38 | 2.00 | 0.00 | 6.31 | 0.02 | 0.00 | 7.40 | 2.00 | 0.00 | 6.30 | 0.02 | 0.00 |
| 7.42 | 2.00 | 0.00 | 6.29 | 0.02 | 0.00 | 7.44 | 2.00 | 0.00 | 6.28 | 0.02 | 0.00 |
| 7.46 | 2.00 | 0.00 | 6.27 | 0.02 | 0.00 | 7.48 | 2.00 | 0.00 | 6.26 | 0.02 | 0.00 |
| 7.50 | 2.00 | 0.00 | 6.25 | 0.02 | 0.00 | 7.52 | 2.00 | 0.00 | 6.24 | 0.02 | 0.00 |
| 7.54 | 2.00 | 0.00 | 6.23 | 0.02 | 0.00 | 7.56 | 2.00 | 0.00 | 6.22 | 0.02 | 0.00 |
| 7.58 | 2.00 | 0.00 | 6.21 | 0.02 | 0.00 | 7.60 | 2.00 | 0.00 | 6.20 | 0.02 | 0.00 |
| 7.62 | 2.00 | 0.00 | 6.19 | 0.02 | 0.00 | 7.64 | 2.00 | 0.00 | 6.18 | 0.02 | 0.00 |
| 7.66 | 2.00 | 0.00 | 6.17 | 0.02 | 0.00 | 7.68 | 2.00 | 0.00 | 6.16 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 7.70 | 2.00 | 0.00 | 6.15 | 0.02 | 0.00 | 7.72 | 2.00 | 0.00 | 6.14 | 0.02 | 0.00 |
| 7.74 | 2.00 | 0.00 | 6.13 | 0.02 | 0.00 | 7.76 | 2.00 | 0.00 | 6.12 | 0.02 | 0.00 |
| 7.78 | 2.00 | 0.00 | 6.11 | 0.02 | 0.00 | 7.80 | 2.00 | 0.00 | 6.10 | 0.02 | 0.00 |
| 7.82 | 2.00 | 0.00 | 6.09 | 0.02 | 0.00 | 7.84 | 2.00 | 0.00 | 6.08 | 0.02 | 0.00 |
| 7.86 | 2.00 | 0.00 | 6.07 | 0.02 | 0.00 | 7.88 | 2.00 | 0.00 | 6.06 | 0.02 | 0.00 |
| 7.90 | 2.00 | 0.00 | 6.05 | 0.02 | 0.00 | 7.92 | 2.00 | 0.00 | 6.04 | 0.02 | 0.00 |
| 7.94 | 2.00 | 0.00 | 6.03 | 0.02 | 0.00 | 7.96 | 2.00 | 0.00 | 6.02 | 0.02 | 0.00 |
| 7.98 | 2.00 | 0.00 | 6.01 | 0.02 | 0.00 | 8.00 | 2.00 | 0.00 | 6.00 | 0.02 | 0.00 |
| 8.02 | 2.00 | 0.00 | 5.99 | 0.02 | 0.00 | 8.04 | 2.00 | 0.00 | 5.98 | 0.02 | 0.00 |
| 8.06 | 2.00 | 0.00 | 5.97 | 0.02 | 0.00 | 8.08 | 2.00 | 0.00 | 5.96 | 0.02 | 0.00 |
| 8.10 | 2.00 | 0.00 | 5.95 | 0.02 | 0.00 | 8.12 | 2.00 | 0.00 | 5.94 | 0.02 | 0.00 |
| 8.14 | 2.00 | 0.00 | 5.93 | 0.02 | 0.00 | 8.16 | 2.00 | 0.00 | 5.92 | 0.02 | 0.00 |
| 8.18 | 2.00 | 0.00 | 5.91 | 0.02 | 0.00 | 8.20 | 2.00 | 0.00 | 5.90 | 0.02 | 0.00 |
| 8.22 | 2.00 | 0.00 | 5.89 | 0.02 | 0.00 | 8.24 | 2.00 | 0.00 | 5.88 | 0.02 | 0.00 |
| 8.26 | 2.00 | 0.00 | 5.87 | 0.02 | 0.00 | 8.28 | 2.00 | 0.00 | 5.86 | 0.02 | 0.00 |
| 8.30 | 2.00 | 0.00 | 5.85 | 0.02 | 0.00 | 8.32 | 2.00 | 0.00 | 5.84 | 0.02 | 0.00 |
| 8.34 | 2.00 | 0.00 | 5.83 | 0.02 | 0.00 | 8.36 | 2.00 | 0.00 | 5.82 | 0.02 | 0.00 |
| 8.38 | 2.00 | 0.00 | 5.81 | 0.02 | 0.00 | 8.40 | 2.00 | 0.00 | 5.80 | 0.02 | 0.00 |
| 8.42 | 2.00 | 0.00 | 5.79 | 0.02 | 0.00 | 8.44 | 2.00 | 0.00 | 5.78 | 0.02 | 0.00 |
| 8.46 | 2.00 | 0.00 | 5.77 | 0.02 | 0.00 | 8.48 | 2.00 | 0.00 | 5.76 | 0.02 | 0.00 |
| 8.50 | 2.00 | 0.00 | 5.75 | 0.02 | 0.00 | 8.52 | 2.00 | 0.00 | 5.74 | 0.02 | 0.00 |
| 8.54 | 2.00 | 0.00 | 5.73 | 0.02 | 0.00 | 8.56 | 2.00 | 0.00 | 5.72 | 0.02 | 0.00 |
| 8.58 | 2.00 | 0.00 | 5.71 | 0.02 | 0.00 | 8.60 | 2.00 | 0.00 | 5.70 | 0.02 | 0.00 |
| 8.62 | 2.00 | 0.00 | 5.69 | 0.02 | 0.00 | 8.64 | 2.00 | 0.00 | 5.68 | 0.02 | 0.00 |
| 8.66 | 2.00 | 0.00 | 5.67 | 0.02 | 0.00 | 8.68 | 2.00 | 0.00 | 5.66 | 0.02 | 0.00 |
| 8.70 | 2.00 | 0.00 | 5.65 | 0.02 | 0.00 | 8.72 | 2.00 | 0.00 | 5.64 | 0.02 | 0.00 |
| 8.74 | 2.00 | 0.00 | 5.63 | 0.02 | 0.00 | 8.76 | 2.00 | 0.00 | 5.62 | 0.02 | 0.00 |
| 8.78 | 2.00 | 0.00 | 5.61 | 0.02 | 0.00 | 8.80 | 2.00 | 0.00 | 5.60 | 0.02 | 0.00 |
| 8.82 | 2.00 | 0.00 | 5.59 | 0.02 | 0.00 | 8.84 | 2.00 | 0.00 | 5.58 | 0.02 | 0.00 |
| 8.86 | 2.00 | 0.00 | 5.57 | 0.02 | 0.00 | 8.88 | 2.00 | 0.00 | 5.56 | 0.02 | 0.00 |
| 8.90 | 2.00 | 0.00 | 5.55 | 0.02 | 0.00 | 8.92 | 2.00 | 0.00 | 5.54 | 0.02 | 0.00 |
| 8.94 | 2.00 | 0.00 | 5.53 | 0.02 | 0.00 | 8.96 | 2.00 | 0.00 | 5.52 | 0.02 | 0.00 |
| 8.98 | 2.00 | 0.00 | 5.51 | 0.02 | 0.00 | 9.00 | 2.00 | 0.00 | 5.50 | 0.02 | 0.00 |
| 9.02 | 2.00 | 0.00 | 5.49 | 0.02 | 0.00 | 9.04 | 2.00 | 0.00 | 5.48 | 0.02 | 0.00 |
| 9.06 | 2.00 | 0.00 | 5.47 | 0.02 | 0.00 | 9.08 | 2.00 | 0.00 | 5.46 | 0.02 | 0.00 |
| 9.10 | 2.00 | 0.00 | 5.45 | 0.02 | 0.00 | 9.12 | 2.00 | 0.00 | 5.44 | 0.02 | 0.00 |
| 9.14 | 2.00 | 0.00 | 5.43 | 0.02 | 0.00 | 9.16 | 2.00 | 0.00 | 5.42 | 0.02 | 0.00 |
| 9.18 | 2.00 | 0.00 | 5.41 | 0.02 | 0.00 | 9.20 | 2.00 | 0.00 | 5.40 | 0.02 | 0.00 |
| 9.22 | 2.00 | 0.00 | 5.39 | 0.02 | 0.00 | 9.24 | 2.00 | 0.00 | 5.38 | 0.02 | 0.00 |
| 9.26 | 2.00 | 0.00 | 5.37 | 0.02 | 0.00 | 9.28 | 2.00 | 0.00 | 5.36 | 0.02 | 0.00 |
| 9.30 | 2.00 | 0.00 | 5.35 | 0.02 | 0.00 | 9.32 | 2.00 | 0.00 | 5.34 | 0.02 | 0.00 |
| 9.34 | 2.00 | 0.00 | 5.33 | 0.02 | 0.00 | 9.36 | 2.00 | 0.00 | 5.32 | 0.02 | 0.00 |
| 9.38 | 2.00 | 0.00 | 5.31 | 0.02 | 0.00 | 9.40 | 2.00 | 0.00 | 5.30 | 0.02 | 0.00 |
| 9.42 | 2.00 | 0.00 | 5.29 | 0.02 | 0.00 | 9.44 | 2.00 | 0.00 | 5.28 | 0.02 | 0.00 |
| 9.46 | 2.00 | 0.00 | 5.27 | 0.02 | 0.00 | 9.48 | 2.00 | 0.00 | 5.26 | 0.02 | 0.00 |
| 9.50 | 2.00 | 0.00 | 5.25 | 0.02 | 0.00 | 9.52 | 2.00 | 0.00 | 5.24 | 0.02 | 0.00 |
| 9.54 | 2.00 | 0.00 | 5.23 | 0.02 | 0.00 | 9.56 | 2.00 | 0.00 | 5.22 | 0.02 | 0.00 |
| 9.58 | 2.00 | 0.00 | 5.21 | 0.02 | 0.00 | 9.60 | 2.00 | 0.00 | 5.20 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 9.62 | 2.00 | 0.00 | 5.19 | 0.02 | 0.00 | 9.64 | 2.00 | 0.00 | 5.18 | 0.02 | 0.00 |
| 9.66 | 2.00 | 0.00 | 5.17 | 0.02 | 0.00 | 9.68 | 2.00 | 0.00 | 5.16 | 0.02 | 0.00 |
| 9.70 | 2.00 | 0.00 | 5.15 | 0.02 | 0.00 | 9.72 | 2.00 | 0.00 | 5.14 | 0.02 | 0.00 |
| 9.74 | 2.00 | 0.00 | 5.13 | 0.02 | 0.00 | 9.76 | 2.00 | 0.00 | 5.12 | 0.02 | 0.00 |
| 9.78 | 2.00 | 0.00 | 5.11 | 0.02 | 0.00 | 9.80 | 2.00 | 0.00 | 5.10 | 0.02 | 0.00 |
| 9.82 | 2.00 | 0.00 | 5.09 | 0.02 | 0.00 | 9.84 | 2.00 | 0.00 | 5.08 | 0.02 | 0.00 |
| 9.86 | 2.00 | 0.00 | 5.07 | 0.02 | 0.00 | 9.88 | 2.00 | 0.00 | 5.06 | 0.02 | 0.00 |
| 9.90 | 2.00 | 0.00 | 5.05 | 0.02 | 0.00 | 9.92 | 2.00 | 0.00 | 5.04 | 0.02 | 0.00 |
| 9.94 | 2.00 | 0.00 | 5.03 | 0.02 | 0.00 | 9.96 | 2.00 | 0.00 | 5.02 | 0.02 | 0.00 |
| 9.98 | 2.00 | 0.00 | 5.01 | 0.02 | 0.00 | 10.00 | 2.00 | 0.00 | 5.00 | 0.02 | 0.00 |
| 10.02 | 2.00 | 0.00 | 4.99 | 0.02 | 0.00 | 10.04 | 1.05 | 0.00 | 4.98 | 0.02 | 0.00 |
| 10.06 | 1.07 | 0.00 | 4.97 | 0.02 | 0.00 | 10.08 | 2.00 | 0.00 | 4.96 | 0.02 | 0.00 |
| 10.10 | 2.00 | 0.00 | 4.95 | 0.02 | 0.00 | 10.12 | 2.00 | 0.00 | 4.94 | 0.02 | 0.00 |
| 10.14 | 2.00 | 0.00 | 4.93 | 0.02 | 0.00 | 10.16 | 2.00 | 0.00 | 4.92 | 0.02 | 0.00 |
| 10.18 | 2.00 | 0.00 | 4.91 | 0.02 | 0.00 | 10.20 | 2.00 | 0.00 | 4.90 | 0.02 | 0.00 |
| 10.22 | 2.00 | 0.00 | 4.89 | 0.02 | 0.00 | 10.24 | 2.00 | 0.00 | 4.88 | 0.02 | 0.00 |
| 10.26 | 2.00 | 0.00 | 4.87 | 0.02 | 0.00 | 10.28 | 2.00 | 0.00 | 4.86 | 0.02 | 0.00 |
| 10.30 | 2.00 | 0.00 | 4.85 | 0.02 | 0.00 | 10.32 | 2.00 | 0.00 | 4.84 | 0.02 | 0.00 |
| 10.34 | 2.00 | 0.00 | 4.83 | 0.02 | 0.00 | 10.36 | 2.00 | 0.00 | 4.82 | 0.02 | 0.00 |
| 10.38 | 1.00 | 0.00 | 4.81 | 0.02 | 0.00 | 10.40 | 1.04 | 0.00 | 4.80 | 0.02 | 0.00 |
| 10.42 | 1.11 | 0.00 | 4.79 | 0.02 | 0.00 | 10.44 | 1.18 | 0.00 | 4.78 | 0.02 | 0.00 |
| 10.46 | 1.26 | 0.00 | 4.77 | 0.02 | 0.00 | 10.48 | 1.35 | 0.00 | 4.76 | 0.02 | 0.00 |
| 10.50 | 1.41 | 0.00 | 4.75 | 0.02 | 0.00 | 10.52 | 1.38 | 0.00 | 4.74 | 0.02 | 0.00 |
| 10.54 | 1.32 | 0.00 | 4.73 | 0.02 | 0.00 | 10.56 | 1.27 | 0.00 | 4.72 | 0.02 | 0.00 |
| 10.58 | 1.23 | 0.00 | 4.71 | 0.02 | 0.00 | 10.60 | 1.16 | 0.00 | 4.70 | 0.02 | 0.00 |
| 10.62 | 1.10 | 0.00 | 4.69 | 0.02 | 0.00 | 10.64 | 1.06 | 0.00 | 4.68 | 0.02 | 0.00 |
| 10.66 | 1.05 | 0.00 | 4.67 | 0.02 | 0.00 | 10.68 | 1.03 | 0.00 | 4.66 | 0.02 | 0.00 |
| 10.70 | 1.01 | 0.00 | 4.65 | 0.02 | 0.00 | 10.72 | 1.01 | 0.00 | 4.64 | 0.02 | 0.00 |
| 10.74 | 1.04 | 0.00 | 4.63 | 0.02 | 0.00 | 10.76 | 1.11 | 0.00 | 4.62 | 0.02 | 0.00 |
| 10.78 | 1.14 | 0.00 | 4.61 | 0.02 | 0.00 | 10.80 | 1.14 | 0.00 | 4.60 | 0.02 | 0.00 |
| 10.82 | 1.12 | 0.00 | 4.59 | 0.02 | 0.00 | 10.84 | 1.14 | 0.00 | 4.58 | 0.02 | 0.00 |
| 10.86 | 1.16 | 0.00 | 4.57 | 0.02 | 0.00 | 10.88 | 1.16 | 0.00 | 4.56 | 0.02 | 0.00 |
| 10.90 | 1.16 | 0.00 | 4.55 | 0.02 | 0.00 | 10.92 | 1.15 | 0.00 | 4.54 | 0.02 | 0.00 |
| 10.94 | 1.16 | 0.00 | 4.53 | 0.02 | 0.00 | 10.96 | 1.15 | 0.00 | 4.52 | 0.02 | 0.00 |
| 10.98 | 1.13 | 0.00 | 4.51 | 0.02 | 0.00 | 11.00 | 1.10 | 0.00 | 4.50 | 0.02 | 0.00 |
| 11.02 | 1.08 | 0.00 | 4.49 | 0.02 | 0.00 | 11.04 | 1.07 | 0.00 | 4.48 | 0.02 | 0.00 |
| 11.06 | 1.11 | 0.00 | 4.47 | 0.02 | 0.00 | 11.08 | 1.14 | 0.00 | 4.46 | 0.02 | 0.00 |
| 11.10 | 1.13 | 0.00 | 4.45 | 0.02 | 0.00 | 11.12 | 1.13 | 0.00 | 4.44 | 0.02 | 0.00 |
| 11.14 | 1.16 | 0.00 | 4.43 | 0.02 | 0.00 | 11.16 | 1.22 | 0.00 | 4.42 | 0.02 | 0.00 |
| 11.18 | 1.28 | 0.00 | 4.41 | 0.02 | 0.00 | 11.20 | 1.30 | 0.00 | 4.40 | 0.02 | 0.00 |
| 11.22 | 1.25 | 0.00 | 4.39 | 0.02 | 0.00 | 11.24 | 1.17 | 0.00 | 4.38 | 0.02 | 0.00 |
| 11.26 | 1.11 | 0.00 | 4.37 | 0.02 | 0.00 | 11.28 | 1.07 | 0.00 | 4.36 | 0.02 | 0.00 |
| 11.30 | 1.04 | 0.00 | 4.35 | 0.02 | 0.00 | 11.32 | 1.02 | 0.00 | 4.34 | 0.02 | 0.00 |
| 11.34 | 1.00 | 0.00 | 4.33 | 0.02 | 0.00 | 11.36 | 0.87 | 0.13 | 4.32 | 0.02 | 0.01 |
| 11.38 | 0.90 | 0.10 | 4.31 | 0.02 | 0.01 | 11.40 | 1.05 | 0.00 | 4.30 | 0.02 | 0.00 |
| 11.42 | 1.09 | 0.00 | 4.29 | 0.02 | 0.00 | 11.44 | 1.16 | 0.00 | 4.28 | 0.02 | 0.00 |
| 11.46 | 1.30 | 0.00 | 4.27 | 0.02 | 0.00 | 11.48 | 1.44 | 0.00 | 4.26 | 0.02 | 0.00 |
| 11.50 | 2.00 | 0.00 | 4.25 | 0.02 | 0.00 | 11.52 | 2.00 | 0.00 | 4.24 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 11.54 | 2.00 | 0.00 | 4.23 | 0.02 | 0.00 | 11.56 | 2.00 | 0.00 | 4.22 | 0.02 | 0.00 |
| 11.58 | 2.00 | 0.00 | 4.21 | 0.02 | 0.00 | 11.60 | 2.00 | 0.00 | 4.20 | 0.02 | 0.00 |
| 11.62 | 1.30 | 0.00 | 4.19 | 0.02 | 0.00 | 11.64 | 2.00 | 0.00 | 4.18 | 0.02 | 0.00 |
| 11.66 | 2.00 | 0.00 | 4.17 | 0.02 | 0.00 | 11.68 | 2.00 | 0.00 | 4.16 | 0.02 | 0.00 |
| 11.70 | 2.00 | 0.00 | 4.15 | 0.02 | 0.00 | 11.72 | 2.00 | 0.00 | 4.14 | 0.02 | 0.00 |
| 11.74 | 2.00 | 0.00 | 4.13 | 0.02 | 0.00 | 11.76 | 2.00 | 0.00 | 4.12 | 0.02 | 0.00 |
| 11.78 | 2.00 | 0.00 | 4.11 | 0.02 | 0.00 | 11.80 | 1.22 | 0.00 | 4.10 | 0.02 | 0.00 |
| 11.82 | 1.25 | 0.00 | 4.09 | 0.02 | 0.00 | 11.84 | 1.33 | 0.00 | 4.08 | 0.02 | 0.00 |
| 11.86 | 1.39 | 0.00 | 4.07 | 0.02 | 0.00 | 11.88 | 1.34 | 0.00 | 4.06 | 0.02 | 0.00 |
| 11.90 | 1.23 | 0.00 | 4.05 | 0.02 | 0.00 | 11.92 | 1.17 | 0.00 | 4.04 | 0.02 | 0.00 |
| 11.94 | 1.17 | 0.00 | 4.03 | 0.02 | 0.00 | 11.96 | 1.18 | 0.00 | 4.02 | 0.02 | 0.00 |
| 11.98 | 1.20 | 0.00 | 4.01 | 0.02 | 0.00 | 12.00 | 1.19 | 0.00 | 4.00 | 0.02 | 0.00 |
| 12.02 | 1.17 | 0.00 | 3.99 | 0.02 | 0.00 | 12.04 | 1.15 | 0.00 | 3.98 | 0.02 | 0.00 |
| 12.06 | 1.19 | 0.00 | 3.97 | 0.02 | 0.00 | 12.08 | 1.24 | 0.00 | 3.96 | 0.02 | 0.00 |
| 12.10 | 1.29 | 0.00 | 3.95 | 0.02 | 0.00 | 12.12 | 1.33 | 0.00 | 3.94 | 0.02 | 0.00 |
| 12.14 | 1.36 | 0.00 | 3.93 | 0.02 | 0.00 | 12.16 | 1.38 | 0.00 | 3.92 | 0.02 | 0.00 |
| 12.18 | 1.36 | 0.00 | 3.91 | 0.02 | 0.00 | 12.20 | 1.36 | 0.00 | 3.90 | 0.02 | 0.00 |
| 12.22 | 1.41 | 0.00 | 3.89 | 0.02 | 0.00 | 12.24 | 1.45 | 0.00 | 3.88 | 0.02 | 0.00 |
| 12.26 | 1.44 | 0.00 | 3.87 | 0.02 | 0.00 | 12.28 | 1.39 | 0.00 | 3.86 | 0.02 | 0.00 |
| 12.30 | 1.36 | 0.00 | 3.85 | 0.02 | 0.00 | 12.32 | 1.35 | 0.00 | 3.84 | 0.02 | 0.00 |
| 12.34 | 1.35 | 0.00 | 3.83 | 0.02 | 0.00 | 12.36 | 1.36 | 0.00 | 3.82 | 0.02 | 0.00 |
| 12.38 | 1.38 | 0.00 | 3.81 | 0.02 | 0.00 | 12.40 | 1.41 | 0.00 | 3.80 | 0.02 | 0.00 |
| 12.42 | 1.46 | 0.00 | 3.79 | 0.02 | 0.00 | 12.44 | 1.46 | 0.00 | 3.78 | 0.02 | 0.00 |
| 12.46 | 1.43 | 0.00 | 3.77 | 0.02 | 0.00 | 12.48 | 1.45 | 0.00 | 3.76 | 0.02 | 0.00 |
| 12.50 | 1.49 | 0.00 | 3.75 | 0.02 | 0.00 | 12.52 | 1.48 | 0.00 | 3.74 | 0.02 | 0.00 |
| 12.54 | 1.44 | 0.00 | 3.73 | 0.02 | 0.00 | 12.56 | 1.41 | 0.00 | 3.72 | 0.02 | 0.00 |
| 12.58 | 2.00 | 0.00 | 3.71 | 0.02 | 0.00 | 12.60 | 1.37 | 0.00 | 3.70 | 0.02 | 0.00 |
| 12.62 | 1.32 | 0.00 | 3.69 | 0.02 | 0.00 | 12.64 | 1.25 | 0.00 | 3.68 | 0.02 | 0.00 |
| 12.66 | 1.21 | 0.00 | 3.67 | 0.02 | 0.00 | 12.68 | 1.19 | 0.00 | 3.66 | 0.02 | 0.00 |
| 12.70 | 1.24 | 0.00 | 3.65 | 0.02 | 0.00 | 12.72 | 1.31 | 0.00 | 3.64 | 0.02 | 0.00 |
| 12.74 | 1.36 | 0.00 | 3.63 | 0.02 | 0.00 | 12.76 | 1.46 | 0.00 | 3.62 | 0.02 | 0.00 |
| 12.78 | 1.60 | 0.00 | 3.61 | 0.02 | 0.00 | 12.80 | 1.70 | 0.00 | 3.60 | 0.02 | 0.00 |
| 12.82 | 1.70 | 0.00 | 3.59 | 0.02 | 0.00 | 12.84 | 2.00 | 0.00 | 3.58 | 0.02 | 0.00 |
| 12.86 | 2.00 | 0.00 | 3.57 | 0.02 | 0.00 | 12.88 | 1.34 | 0.00 | 3.56 | 0.02 | 0.00 |
| 12.90 | 1.21 | 0.00 | 3.55 | 0.02 | 0.00 | 12.92 | 1.16 | 0.00 | 3.54 | 0.02 | 0.00 |
| 12.94 | 1.17 | 0.00 | 3.53 | 0.02 | 0.00 | 12.96 | 1.17 | 0.00 | 3.52 | 0.02 | 0.00 |
| 12.98 | 1.19 | 0.00 | 3.51 | 0.02 | 0.00 | 13.00 | 1.23 | 0.00 | 3.50 | 0.02 | 0.00 |
| 13.02 | 1.28 | 0.00 | 3.49 | 0.02 | 0.00 | 13.04 | 1.34 | 0.00 | 3.48 | 0.02 | 0.00 |
| 13.06 | 1.45 | 0.00 | 3.47 | 0.02 | 0.00 | 13.08 | 1.55 | 0.00 | 3.46 | 0.02 | 0.00 |
| 13.10 | 1.61 | 0.00 | 3.45 | 0.02 | 0.00 | 13.12 | 1.58 | 0.00 | 3.44 | 0.02 | 0.00 |
| 13.14 | 2.00 | 0.00 | 3.43 | 0.02 | 0.00 | 13.16 | 1.43 | 0.00 | 3.42 | 0.02 | 0.00 |
| 13.18 | 1.33 | 0.00 | 3.41 | 0.02 | 0.00 | 13.20 | 1.24 | 0.00 | 3.40 | 0.02 | 0.00 |
| 13.22 | 1.19 | 0.00 | 3.39 | 0.02 | 0.00 | 13.24 | 1.17 | 0.00 | 3.38 | 0.02 | 0.00 |
| 13.26 | 1.19 | 0.00 | 3.37 | 0.02 | 0.00 | 13.28 | 1.23 | 0.00 | 3.36 | 0.02 | 0.00 |
| 13.30 | 1.24 | 0.00 | 3.35 | 0.02 | 0.00 | 13.32 | 1.26 | 0.00 | 3.34 | 0.02 | 0.00 |
| 13.34 | 1.28 | 0.00 | 3.33 | 0.02 | 0.00 | 13.36 | 1.30 | 0.00 | 3.32 | 0.02 | 0.00 |
| 13.38 | 1.36 | 0.00 | 3.31 | 0.02 | 0.00 | 13.40 | 1.44 | 0.00 | 3.30 | 0.02 | 0.00 |
| 13.42 | 1.51 | 0.00 | 3.29 | 0.02 | 0.00 | 13.44 | 1.54 | 0.00 | 3.28 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 13.46 | 2.00 | 0.00 | 3.27 | 0.02 | 0.00 | 13.48 | 2.00 | 0.00 | 3.26 | 0.02 | 0.00 |
| 13.50 | 2.00 | 0.00 | 3.25 | 0.02 | 0.00 | 13.52 | 2.00 | 0.00 | 3.24 | 0.02 | 0.00 |
| 13.54 | 1.42 | 0.00 | 3.23 | 0.02 | 0.00 | 13.56 | 1.42 | 0.00 | 3.22 | 0.02 | 0.00 |
| 13.58 | 1.44 | 0.00 | 3.21 | 0.02 | 0.00 | 13.60 | 1.49 | 0.00 | 3.20 | 0.02 | 0.00 |
| 13.62 | 1.52 | 0.00 | 3.19 | 0.02 | 0.00 | 13.64 | 2.00 | 0.00 | 3.18 | 0.02 | 0.00 |
| 13.66 | 2.00 | 0.00 | 3.17 | 0.02 | 0.00 | 13.68 | 2.00 | 0.00 | 3.16 | 0.02 | 0.00 |
| 13.70 | 1.57 | 0.00 | 3.15 | 0.02 | 0.00 | 13.72 | 2.00 | 0.00 | 3.14 | 0.02 | 0.00 |
| 13.74 | 2.00 | 0.00 | 3.13 | 0.02 | 0.00 | 13.76 | 2.00 | 0.00 | 3.12 | 0.02 | 0.00 |
| 13.78 | 2.00 | 0.00 | 3.11 | 0.02 | 0.00 | 13.80 | 2.00 | 0.00 | 3.10 | 0.02 | 0.00 |
| 13.82 | 2.00 | 0.00 | 3.09 | 0.02 | 0.00 | 13.84 | 2.00 | 0.00 | 3.08 | 0.02 | 0.00 |
| 13.86 | 1.36 | 0.00 | 3.07 | 0.02 | 0.00 | 13.88 | 1.39 | 0.00 | 3.06 | 0.02 | 0.00 |
| 13.90 | 1.37 | 0.00 | 3.05 | 0.02 | 0.00 | 13.92 | 1.41 | 0.00 | 3.04 | 0.02 | 0.00 |
| 13.94 | 1.44 | 0.00 | 3.03 | 0.02 | 0.00 | 13.96 | 1.45 | 0.00 | 3.02 | 0.02 | 0.00 |
| 13.98 | 1.45 | 0.00 | 3.01 | 0.02 | 0.00 | 14.00 | 2.00 | 0.00 | 3.00 | 0.02 | 0.00 |
| 14.02 | 2.00 | 0.00 | 2.99 | 0.02 | 0.00 | 14.04 | 2.00 | 0.00 | 2.98 | 0.02 | 0.00 |
| 14.06 | 2.00 | 0.00 | 2.97 | 0.02 | 0.00 | 14.08 | 2.00 | 0.00 | 2.96 | 0.02 | 0.00 |
| 14.10 | 2.00 | 0.00 | 2.95 | 0.02 | 0.00 | 14.12 | 2.00 | 0.00 | 2.94 | 0.02 | 0.00 |
| 14.14 | 2.00 | 0.00 | 2.93 | 0.02 | 0.00 | 14.16 | 2.00 | 0.00 | 2.92 | 0.02 | 0.00 |
| 14.18 | 2.00 | 0.00 | 2.91 | 0.02 | 0.00 | 14.20 | 2.00 | 0.00 | 2.90 | 0.02 | 0.00 |
| 14.22 | 2.00 | 0.00 | 2.89 | 0.02 | 0.00 | 14.24 | 2.00 | 0.00 | 2.88 | 0.02 | 0.00 |
| 14.26 | 2.00 | 0.00 | 2.87 | 0.02 | 0.00 | 14.28 | 2.00 | 0.00 | 2.86 | 0.02 | 0.00 |
| 14.30 | 2.00 | 0.00 | 2.85 | 0.02 | 0.00 | 14.32 | 2.00 | 0.00 | 2.84 | 0.02 | 0.00 |
| 14.34 | 2.00 | 0.00 | 2.83 | 0.02 | 0.00 | 14.36 | 2.00 | 0.00 | 2.82 | 0.02 | 0.00 |
| 14.38 | 2.00 | 0.00 | 2.81 | 0.02 | 0.00 | 14.40 | 2.00 | 0.00 | 2.80 | 0.02 | 0.00 |
| 14.42 | 2.00 | 0.00 | 2.79 | 0.02 | 0.00 | 14.44 | 2.00 | 0.00 | 2.78 | 0.02 | 0.00 |
| 14.46 | 2.00 | 0.00 | 2.77 | 0.02 | 0.00 | 14.48 | 2.00 | 0.00 | 2.76 | 0.02 | 0.00 |
| 14.50 | 2.00 | 0.00 | 2.75 | 0.02 | 0.00 | 14.52 | 2.00 | 0.00 | 2.74 | 0.02 | 0.00 |
| 14.54 | 2.00 | 0.00 | 2.73 | 0.02 | 0.00 | 14.56 | 2.00 | 0.00 | 2.72 | 0.02 | 0.00 |
| 14.58 | 2.00 | 0.00 | 2.71 | 0.02 | 0.00 | 14.60 | 2.00 | 0.00 | 2.70 | 0.02 | 0.00 |
| 14.62 | 2.00 | 0.00 | 2.69 | 0.02 | 0.00 | 14.64 | 2.00 | 0.00 | 2.68 | 0.02 | 0.00 |
| 14.66 | 2.00 | 0.00 | 2.67 | 0.02 | 0.00 | 14.68 | 2.00 | 0.00 | 2.66 | 0.02 | 0.00 |
| 14.70 | 2.00 | 0.00 | 2.65 | 0.02 | 0.00 | 14.72 | 2.00 | 0.00 | 2.64 | 0.02 | 0.00 |
| 14.74 | 2.00 | 0.00 | 2.63 | 0.02 | 0.00 | 14.76 | 2.00 | 0.00 | 2.62 | 0.02 | 0.00 |
| 14.78 | 2.00 | 0.00 | 2.61 | 0.02 | 0.00 | 14.80 | 2.00 | 0.00 | 2.60 | 0.02 | 0.00 |
| 14.82 | 2.00 | 0.00 | 2.59 | 0.02 | 0.00 | 14.84 | 2.00 | 0.00 | 2.58 | 0.02 | 0.00 |
| 14.86 | 2.00 | 0.00 | 2.57 | 0.02 | 0.00 | 14.88 | 2.00 | 0.00 | 2.56 | 0.02 | 0.00 |
| 14.90 | 2.00 | 0.00 | 2.55 | 0.02 | 0.00 | 14.92 | 2.00 | 0.00 | 2.54 | 0.02 | 0.00 |
| 14.94 | 2.00 | 0.00 | 2.53 | 0.02 | 0.00 | 14.96 | 2.00 | 0.00 | 2.52 | 0.02 | 0.00 |
| 14.98 | 2.00 | 0.00 | 2.51 | 0.02 | 0.00 | 15.00 | 1.13 | 0.00 | 2.50 | 0.02 | 0.00 |
| 15.02 | 1.10 | 0.00 | 2.49 | 0.02 | 0.00 | 15.04 | 1.11 | 0.00 | 2.48 | 0.02 | 0.00 |
| 15.06 | 1.13 | 0.00 | 2.47 | 0.02 | 0.00 | 15.08 | 1.16 | 0.00 | 2.46 | 0.02 | 0.00 |
| 15.10 | 1.16 | 0.00 | 2.45 | 0.02 | 0.00 | 15.12 | 1.16 | 0.00 | 2.44 | 0.02 | 0.00 |
| 15.14 | 1.16 | 0.00 | 2.43 | 0.02 | 0.00 | 15.16 | 2.00 | 0.00 | 2.42 | 0.02 | 0.00 |
| 15.18 | 2.00 | 0.00 | 2.41 | 0.02 | 0.00 | 15.20 | 2.00 | 0.00 | 2.40 | 0.02 | 0.00 |
| 15.22 | 2.00 | 0.00 | 2.39 | 0.02 | 0.00 | 15.24 | 2.00 | 0.00 | 2.38 | 0.02 | 0.00 |
| 15.26 | 2.00 | 0.00 | 2.37 | 0.02 | 0.00 | 15.28 | 2.00 | 0.00 | 2.36 | 0.02 | 0.00 |
| 15.30 | 2.00 | 0.00 | 2.35 | 0.02 | 0.00 | 15.32 | 2.00 | 0.00 | 2.34 | 0.02 | 0.00 |
| 15.34 | 2.00 | 0.00 | 2.33 | 0.02 | 0.00 | 15.36 | 2.00 | 0.00 | 2.32 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 15.38 | 2.00 | 0.00 | 2.31 | 0.02 | 0.00 | 15.40 | 2.00 | 0.00 | 2.30 | 0.02 | 0.00 |
| 15.42 | 2.00 | 0.00 | 2.29 | 0.02 | 0.00 | 15.44 | 2.00 | 0.00 | 2.28 | 0.02 | 0.00 |
| 15.46 | 2.00 | 0.00 | 2.27 | 0.02 | 0.00 | 15.48 | 2.00 | 0.00 | 2.26 | 0.02 | 0.00 |
| 15.50 | 2.00 | 0.00 | 2.25 | 0.02 | 0.00 | 15.52 | 2.00 | 0.00 | 2.24 | 0.02 | 0.00 |
| 15.54 | 2.00 | 0.00 | 2.23 | 0.02 | 0.00 | 15.56 | 2.00 | 0.00 | 2.22 | 0.02 | 0.00 |
| 15.58 | 2.00 | 0.00 | 2.21 | 0.02 | 0.00 | 15.60 | 2.00 | 0.00 | 2.20 | 0.02 | 0.00 |
| 15.62 | 2.00 | 0.00 | 2.19 | 0.02 | 0.00 | 15.64 | 2.00 | 0.00 | 2.18 | 0.02 | 0.00 |
| 15.66 | 2.00 | 0.00 | 2.17 | 0.02 | 0.00 | 15.68 | 2.00 | 0.00 | 2.16 | 0.02 | 0.00 |
| 15.70 | 2.00 | 0.00 | 2.15 | 0.02 | 0.00 | 15.72 | 2.00 | 0.00 | 2.14 | 0.02 | 0.00 |
| 15.74 | 2.00 | 0.00 | 2.13 | 0.02 | 0.00 | 15.76 | 2.00 | 0.00 | 2.12 | 0.02 | 0.00 |
| 15.78 | 2.00 | 0.00 | 2.11 | 0.02 | 0.00 | 15.80 | 2.00 | 0.00 | 2.10 | 0.02 | 0.00 |
| 15.82 | 2.00 | 0.00 | 2.09 | 0.02 | 0.00 | 15.84 | 2.00 | 0.00 | 2.08 | 0.02 | 0.00 |
| 15.86 | 2.00 | 0.00 | 2.07 | 0.02 | 0.00 | 15.88 | 2.00 | 0.00 | 2.06 | 0.02 | 0.00 |
| 15.90 | 2.00 | 0.00 | 2.05 | 0.02 | 0.00 | 15.92 | 2.00 | 0.00 | 2.04 | 0.02 | 0.00 |
| 15.94 | 2.00 | 0.00 | 2.03 | 0.02 | 0.00 | 15.96 | 2.00 | 0.00 | 2.02 | 0.02 | 0.00 |
| 15.98 | 2.00 | 0.00 | 2.01 | 0.02 | 0.00 | 16.00 | 2.00 | 0.00 | 2.00 | 0.02 | 0.00 |
| 16.02 | 2.00 | 0.00 | 1.99 | 0.02 | 0.00 | 16.04 | 2.00 | 0.00 | 1.98 | 0.02 | 0.00 |
| 16.06 | 2.00 | 0.00 | 1.97 | 0.02 | 0.00 | 16.08 | 2.00 | 0.00 | 1.96 | 0.02 | 0.00 |
| 16.10 | 2.00 | 0.00 | 1.95 | 0.02 | 0.00 | 16.12 | 2.00 | 0.00 | 1.94 | 0.02 | 0.00 |
| 16.14 | 2.00 | 0.00 | 1.93 | 0.02 | 0.00 | 16.16 | 2.00 | 0.00 | 1.92 | 0.02 | 0.00 |
| 16.18 | 2.00 | 0.00 | 1.91 | 0.02 | 0.00 | 16.20 | 2.00 | 0.00 | 1.90 | 0.02 | 0.00 |
| 16.22 | 2.00 | 0.00 | 1.89 | 0.02 | 0.00 | 16.24 | 2.00 | 0.00 | 1.88 | 0.02 | 0.00 |
| 16.26 | 2.00 | 0.00 | 1.87 | 0.02 | 0.00 | 16.28 | 2.00 | 0.00 | 1.86 | 0.02 | 0.00 |
| 16.30 | 2.00 | 0.00 | 1.85 | 0.02 | 0.00 | 16.32 | 2.00 | 0.00 | 1.84 | 0.02 | 0.00 |
| 16.34 | 2.00 | 0.00 | 1.83 | 0.02 | 0.00 | 16.36 | 2.00 | 0.00 | 1.82 | 0.02 | 0.00 |
| 16.38 | 2.00 | 0.00 | 1.81 | 0.02 | 0.00 | 16.40 | 2.00 | 0.00 | 1.80 | 0.02 | 0.00 |
| 16.42 | 2.00 | 0.00 | 1.79 | 0.02 | 0.00 | 16.44 | 2.00 | 0.00 | 1.78 | 0.02 | 0.00 |
| 16.46 | 2.00 | 0.00 | 1.77 | 0.02 | 0.00 | 16.48 | 2.00 | 0.00 | 1.76 | 0.02 | 0.00 |
| 16.50 | 2.00 | 0.00 | 1.75 | 0.02 | 0.00 | 16.52 | 2.00 | 0.00 | 1.74 | 0.02 | 0.00 |
| 16.54 | 2.00 | 0.00 | 1.73 | 0.02 | 0.00 | 16.56 | 2.00 | 0.00 | 1.72 | 0.02 | 0.00 |
| 16.58 | 2.00 | 0.00 | 1.71 | 0.02 | 0.00 | 16.60 | 2.00 | 0.00 | 1.70 | 0.02 | 0.00 |
| 16.62 | 2.00 | 0.00 | 1.69 | 0.02 | 0.00 | 16.64 | 2.00 | 0.00 | 1.68 | 0.02 | 0.00 |
| 16.66 | 2.00 | 0.00 | 1.67 | 0.02 | 0.00 | 16.68 | 2.00 | 0.00 | 1.66 | 0.02 | 0.00 |
| 16.70 | 2.00 | 0.00 | 1.65 | 0.02 | 0.00 | 16.72 | 2.00 | 0.00 | 1.64 | 0.02 | 0.00 |
| 16.74 | 2.00 | 0.00 | 1.63 | 0.02 | 0.00 | 16.76 | 2.00 | 0.00 | 1.62 | 0.02 | 0.00 |
| 16.78 | 2.00 | 0.00 | 1.61 | 0.02 | 0.00 | 16.80 | 2.00 | 0.00 | 1.60 | 0.02 | 0.00 |
| 16.82 | 2.00 | 0.00 | 1.59 | 0.02 | 0.00 | 16.84 | 2.00 | 0.00 | 1.58 | 0.02 | 0.00 |
| 16.86 | 2.00 | 0.00 | 1.57 | 0.02 | 0.00 | 16.88 | 2.00 | 0.00 | 1.56 | 0.02 | 0.00 |
| 16.90 | 2.00 | 0.00 | 1.55 | 0.02 | 0.00 | 16.92 | 1.27 | 0.00 | 1.54 | 0.02 | 0.00 |
| 16.94 | 1.26 | 0.00 | 1.53 | 0.02 | 0.00 | 16.96 | 1.26 | 0.00 | 1.52 | 0.02 | 0.00 |
| 16.98 | 1.26 | 0.00 | 1.51 | 0.02 | 0.00 | 17.00 | 1.25 | 0.00 | 1.50 | 0.02 | 0.00 |
| 17.02 | 1.25 | 0.00 | 1.49 | 0.02 | 0.00 | 17.04 | 1.27 | 0.00 | 1.48 | 0.02 | 0.00 |
| 17.06 | 1.33 | 0.00 | 1.47 | 0.02 | 0.00 | 17.08 | 1.41 | 0.00 | 1.46 | 0.02 | 0.00 |
| 17.10 | 2.00 | 0.00 | 1.45 | 0.02 | 0.00 | 17.12 | 2.00 | 0.00 | 1.44 | 0.02 | 0.00 |
| 17.14 | 2.00 | 0.00 | 1.43 | 0.02 | 0.00 | 17.16 | 2.00 | 0.00 | 1.42 | 0.02 | 0.00 |
| 17.18 | 2.00 | 0.00 | 1.41 | 0.02 | 0.00 | 17.20 | 2.00 | 0.00 | 1.40 | 0.02 | 0.00 |
| 17.22 | 2.00 | 0.00 | 1.39 | 0.02 | 0.00 | 17.24 | 2.00 | 0.00 | 1.38 | 0.02 | 0.00 |
| 17.26 | 2.00 | 0.00 | 1.37 | 0.02 | 0.00 | 17.28 | 2.00 | 0.00 | 1.36 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 17.30 | 2.00 | 0.00 | 1.35 | 0.02 | 0.00 | 17.32 | 2.00 | 0.00 | 1.34 | 0.02 | 0.00 |
| 17.34 | 2.00 | 0.00 | 1.33 | 0.02 | 0.00 | 17.36 | 2.00 | 0.00 | 1.32 | 0.02 | 0.00 |
| 17.38 | 2.00 | 0.00 | 1.31 | 0.02 | 0.00 | 17.40 | 2.00 | 0.00 | 1.30 | 0.02 | 0.00 |
| 17.42 | 2.00 | 0.00 | 1.29 | 0.02 | 0.00 | 17.44 | 2.00 | 0.00 | 1.28 | 0.02 | 0.00 |
| 17.46 | 2.00 | 0.00 | 1.27 | 0.02 | 0.00 | 17.48 | 2.00 | 0.00 | 1.26 | 0.02 | 0.00 |
| 17.50 | 2.00 | 0.00 | 1.25 | 0.02 | 0.00 | 17.52 | 2.00 | 0.00 | 1.24 | 0.02 | 0.00 |
| 17.54 | 2.00 | 0.00 | 1.23 | 0.02 | 0.00 | 17.56 | 2.00 | 0.00 | 1.22 | 0.02 | 0.00 |
| 17.58 | 2.00 | 0.00 | 1.21 | 0.02 | 0.00 | 17.60 | 2.00 | 0.00 | 1.20 | 0.02 | 0.00 |
| 17.62 | 2.00 | 0.00 | 1.19 | 0.02 | 0.00 | 17.64 | 2.00 | 0.00 | 1.18 | 0.02 | 0.00 |
| 17.66 | 2.00 | 0.00 | 1.17 | 0.02 | 0.00 | 17.68 | 2.00 | 0.00 | 1.16 | 0.02 | 0.00 |
| 17.70 | 2.00 | 0.00 | 1.15 | 0.02 | 0.00 | 17.72 | 2.00 | 0.00 | 1.14 | 0.02 | 0.00 |
| 17.74 | 2.00 | 0.00 | 1.13 | 0.02 | 0.00 | 17.76 | 2.00 | 0.00 | 1.12 | 0.02 | 0.00 |
| 17.78 | 2.00 | 0.00 | 1.11 | 0.02 | 0.00 | 17.80 | 2.00 | 0.00 | 1.10 | 0.02 | 0.00 |
| 17.82 | 2.00 | 0.00 | 1.09 | 0.02 | 0.00 | 17.84 | 2.00 | 0.00 | 1.08 | 0.02 | 0.00 |
| 17.86 | 2.00 | 0.00 | 1.07 | 0.02 | 0.00 | 17.88 | 2.00 | 0.00 | 1.06 | 0.02 | 0.00 |
| 17.90 | 2.00 | 0.00 | 1.05 | 0.02 | 0.00 | 17.92 | 2.00 | 0.00 | 1.04 | 0.02 | 0.00 |
| 17.94 | 2.00 | 0.00 | 1.03 | 0.02 | 0.00 | 17.96 | 2.00 | 0.00 | 1.02 | 0.02 | 0.00 |
| 17.98 | 2.00 | 0.00 | 1.01 | 0.02 | 0.00 | 18.00 | 2.00 | 0.00 | 1.00 | 0.02 | 0.00 |
| 18.02 | 2.00 | 0.00 | 0.99 | 0.02 | 0.00 | 18.04 | 2.00 | 0.00 | 0.98 | 0.02 | 0.00 |
| 18.06 | 2.00 | 0.00 | 0.97 | 0.02 | 0.00 | 18.08 | 2.00 | 0.00 | 0.96 | 0.02 | 0.00 |
| 18.10 | 2.00 | 0.00 | 0.95 | 0.02 | 0.00 | 18.12 | 2.00 | 0.00 | 0.94 | 0.02 | 0.00 |
| 18.14 | 2.00 | 0.00 | 0.93 | 0.02 | 0.00 | 18.16 | 2.00 | 0.00 | 0.92 | 0.02 | 0.00 |
| 18.18 | 2.00 | 0.00 | 0.91 | 0.02 | 0.00 | 18.20 | 2.00 | 0.00 | 0.90 | 0.02 | 0.00 |
| 18.22 | 2.00 | 0.00 | 0.89 | 0.02 | 0.00 | 18.24 | 2.00 | 0.00 | 0.88 | 0.02 | 0.00 |
| 18.26 | 2.00 | 0.00 | 0.87 | 0.02 | 0.00 | 18.28 | 2.00 | 0.00 | 0.86 | 0.02 | 0.00 |
| 18.30 | 2.00 | 0.00 | 0.85 | 0.02 | 0.00 | 18.32 | 2.00 | 0.00 | 0.84 | 0.02 | 0.00 |
| 18.34 | 2.00 | 0.00 | 0.83 | 0.02 | 0.00 | 18.36 | 2.00 | 0.00 | 0.82 | 0.02 | 0.00 |
| 18.38 | 2.00 | 0.00 | 0.81 | 0.02 | 0.00 | 18.40 | 2.00 | 0.00 | 0.80 | 0.02 | 0.00 |
| 18.42 | 2.00 | 0.00 | 0.79 | 0.02 | 0.00 | 18.44 | 2.00 | 0.00 | 0.78 | 0.02 | 0.00 |
| 18.46 | 2.00 | 0.00 | 0.77 | 0.02 | 0.00 | 18.48 | 2.00 | 0.00 | 0.76 | 0.02 | 0.00 |
| 18.50 | 2.00 | 0.00 | 0.75 | 0.02 | 0.00 | 18.52 | 2.00 | 0.00 | 0.74 | 0.02 | 0.00 |
| 18.54 | 2.00 | 0.00 | 0.73 | 0.02 | 0.00 | 18.56 | 2.00 | 0.00 | 0.72 | 0.02 | 0.00 |
| 18.58 | 2.00 | 0.00 | 0.71 | 0.02 | 0.00 | 18.60 | 2.00 | 0.00 | 0.70 | 0.02 | 0.00 |
| 18.62 | 2.00 | 0.00 | 0.69 | 0.02 | 0.00 | 18.64 | 2.00 | 0.00 | 0.68 | 0.02 | 0.00 |
| 18.66 | 2.00 | 0.00 | 0.67 | 0.02 | 0.00 | 18.68 | 2.00 | 0.00 | 0.66 | 0.02 | 0.00 |
| 18.70 | 2.00 | 0.00 | 0.65 | 0.02 | 0.00 | 18.72 | 2.00 | 0.00 | 0.64 | 0.02 | 0.00 |
| 18.74 | 2.00 | 0.00 | 0.63 | 0.02 | 0.00 | 18.76 | 2.00 | 0.00 | 0.62 | 0.02 | 0.00 |
| 18.78 | 2.00 | 0.00 | 0.61 | 0.02 | 0.00 | 18.80 | 2.00 | 0.00 | 0.60 | 0.02 | 0.00 |
| 18.82 | 2.00 | 0.00 | 0.59 | 0.02 | 0.00 | 18.84 | 2.00 | 0.00 | 0.58 | 0.02 | 0.00 |
| 18.86 | 2.00 | 0.00 | 0.57 | 0.02 | 0.00 | 18.88 | 2.00 | 0.00 | 0.56 | 0.02 | 0.00 |
| 18.90 | 2.00 | 0.00 | 0.55 | 0.02 | 0.00 | 18.92 | 2.00 | 0.00 | 0.54 | 0.02 | 0.00 |
| 18.94 | 2.00 | 0.00 | 0.53 | 0.02 | 0.00 | 18.96 | 2.00 | 0.00 | 0.52 | 0.02 | 0.00 |
| 18.98 | 2.00 | 0.00 | 0.51 | 0.02 | 0.00 | 19.00 | 2.00 | 0.00 | 0.50 | 0.02 | 0.00 |
| 19.02 | 2.00 | 0.00 | 0.49 | 0.02 | 0.00 | 19.04 | 2.00 | 0.00 | 0.48 | 0.02 | 0.00 |
| 19.06 | 2.00 | 0.00 | 0.47 | 0.02 | 0.00 | 19.08 | 2.00 | 0.00 | 0.46 | 0.02 | 0.00 |
| 19.10 | 2.00 | 0.00 | 0.45 | 0.02 | 0.00 | 19.12 | 2.00 | 0.00 | 0.44 | 0.02 | 0.00 |
| 19.14 | 2.00 | 0.00 | 0.43 | 0.02 | 0.00 | 19.16 | 2.00 | 0.00 | 0.42 | 0.02 | 0.00 |
| 19.18 | 2.00 | 0.00 | 0.41 | 0.02 | 0.00 | 19.20 | 2.00 | 0.00 | 0.40 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 19.22 | 2.00 | 0.00 | 0.39 | 0.02 | 0.00 | 19.24 | 2.00 | 0.00 | 0.38 | 0.02 | 0.00 |
| 19.26 | 2.00 | 0.00 | 0.37 | 0.02 | 0.00 | 19.28 | 2.00 | 0.00 | 0.36 | 0.02 | 0.00 |
| 19.30 | 2.00 | 0.00 | 0.35 | 0.02 | 0.00 | 19.32 | 2.00 | 0.00 | 0.34 | 0.02 | 0.00 |
| 19.34 | 2.00 | 0.00 | 0.33 | 0.02 | 0.00 | 19.36 | 2.00 | 0.00 | 0.32 | 0.02 | 0.00 |
| 19.38 | 2.00 | 0.00 | 0.31 | 0.02 | 0.00 | 19.40 | 2.00 | 0.00 | 0.30 | 0.02 | 0.00 |
| 19.42 | 2.00 | 0.00 | 0.29 | 0.02 | 0.00 | 19.44 | 2.00 | 0.00 | 0.28 | 0.02 | 0.00 |
| 19.46 | 2.00 | 0.00 | 0.27 | 0.02 | 0.00 | 19.48 | 2.00 | 0.00 | 0.26 | 0.02 | 0.00 |
| 19.50 | 2.00 | 0.00 | 0.25 | 0.02 | 0.00 | 19.52 | 2.00 | 0.00 | 0.24 | 0.02 | 0.00 |
| 19.54 | 2.00 | 0.00 | 0.23 | 0.02 | 0.00 | 19.56 | 2.00 | 0.00 | 0.22 | 0.02 | 0.00 |
| 19.58 | 2.00 | 0.00 | 0.21 | 0.02 | 0.00 | 19.60 | 2.00 | 0.00 | 0.20 | 0.02 | 0.00 |
| 19.62 | 2.00 | 0.00 | 0.19 | 0.02 | 0.00 | 19.64 | 2.00 | 0.00 | 0.18 | 0.02 | 0.00 |
| 19.66 | 2.00 | 0.00 | 0.17 | 0.02 | 0.00 | 19.68 | 2.00 | 0.00 | 0.16 | 0.02 | 0.00 |
| 19.70 | 2.00 | 0.00 | 0.15 | 0.02 | 0.00 | 19.72 | 2.00 | 0.00 | 0.14 | 0.02 | 0.00 |
| 19.74 | 2.00 | 0.00 | 0.13 | 0.02 | 0.00 | 19.76 | 2.00 | 0.00 | 0.12 | 0.02 | 0.00 |
| 19.78 | 2.00 | 0.00 | 0.11 | 0.02 | 0.00 | 19.80 | 2.00 | 0.00 | 0.10 | 0.02 | 0.00 |
| 19.82 | 2.00 | 0.00 | 0.09 | 0.02 | 0.00 | 19.84 | 2.00 | 0.00 | 0.08 | 0.02 | 0.00 |
| 19.86 | 2.00 | 0.00 | 0.07 | 0.02 | 0.00 | 19.88 | 2.00 | 0.00 | 0.06 | 0.02 | 0.00 |

Overall liquefaction potential: 0.02

LPI = 0.00 - Liquefaction risk very low

LPI between 0.00 and 5.00 - Liquefaction risk low

LPI between 5.00 and 15.00 - Liquefaction risk high

LPI > 15.00 - Liquefaction risk very high

Abbreviations

FS: Calculated factor of safety for test point

F_L: 1 - FSw_z: Function value of the extend of soil liquefaction according to depthd_z: Layer thickness (m)

LPI: Liquefaction potential index value for test point

LIQUEFACTION ANALYSIS REPORT

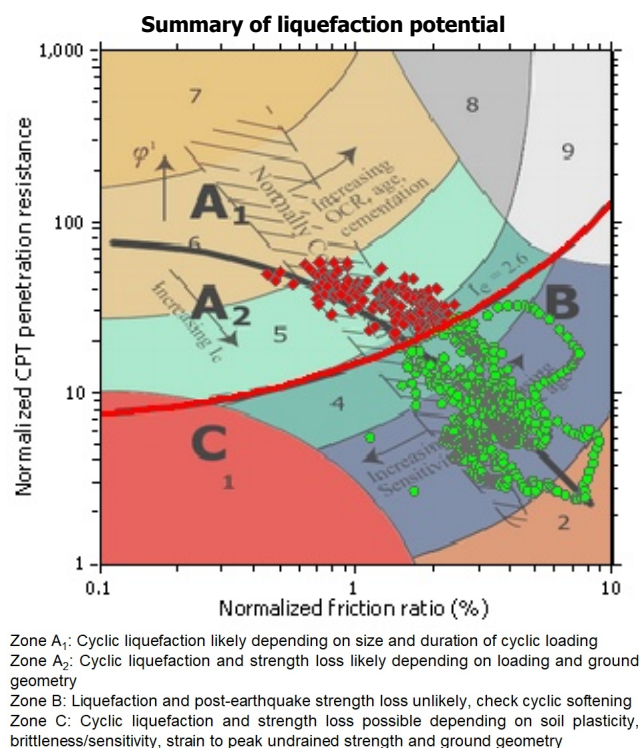
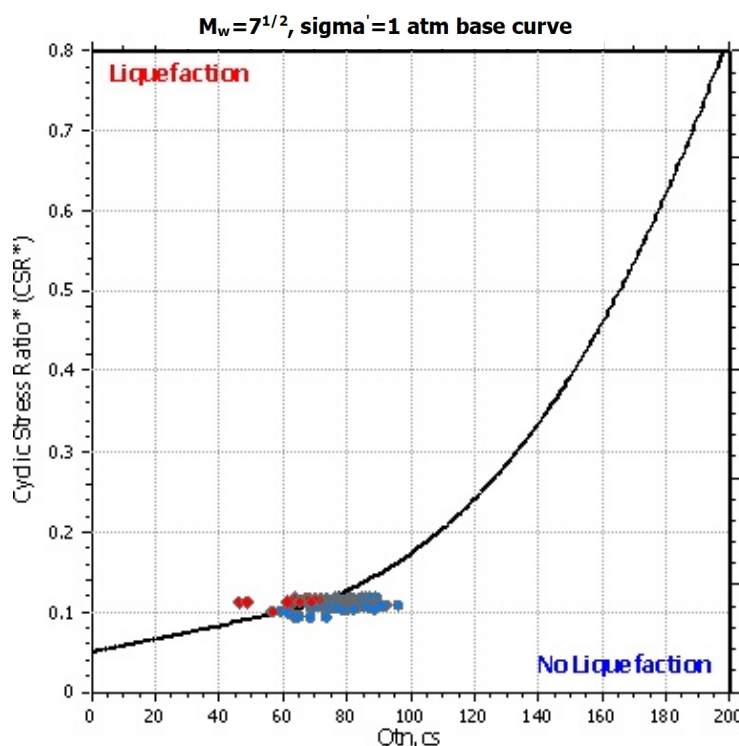
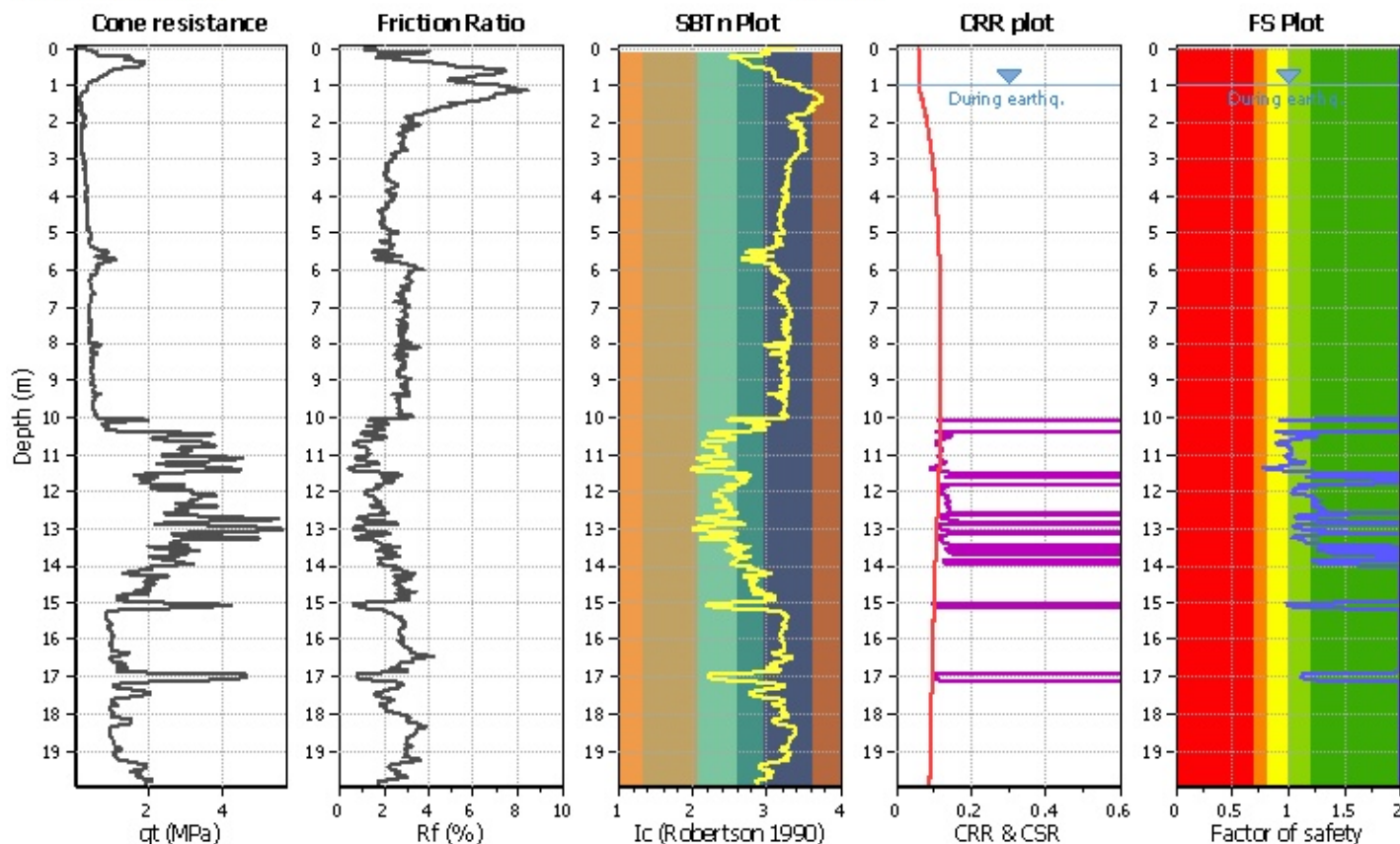
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Location :

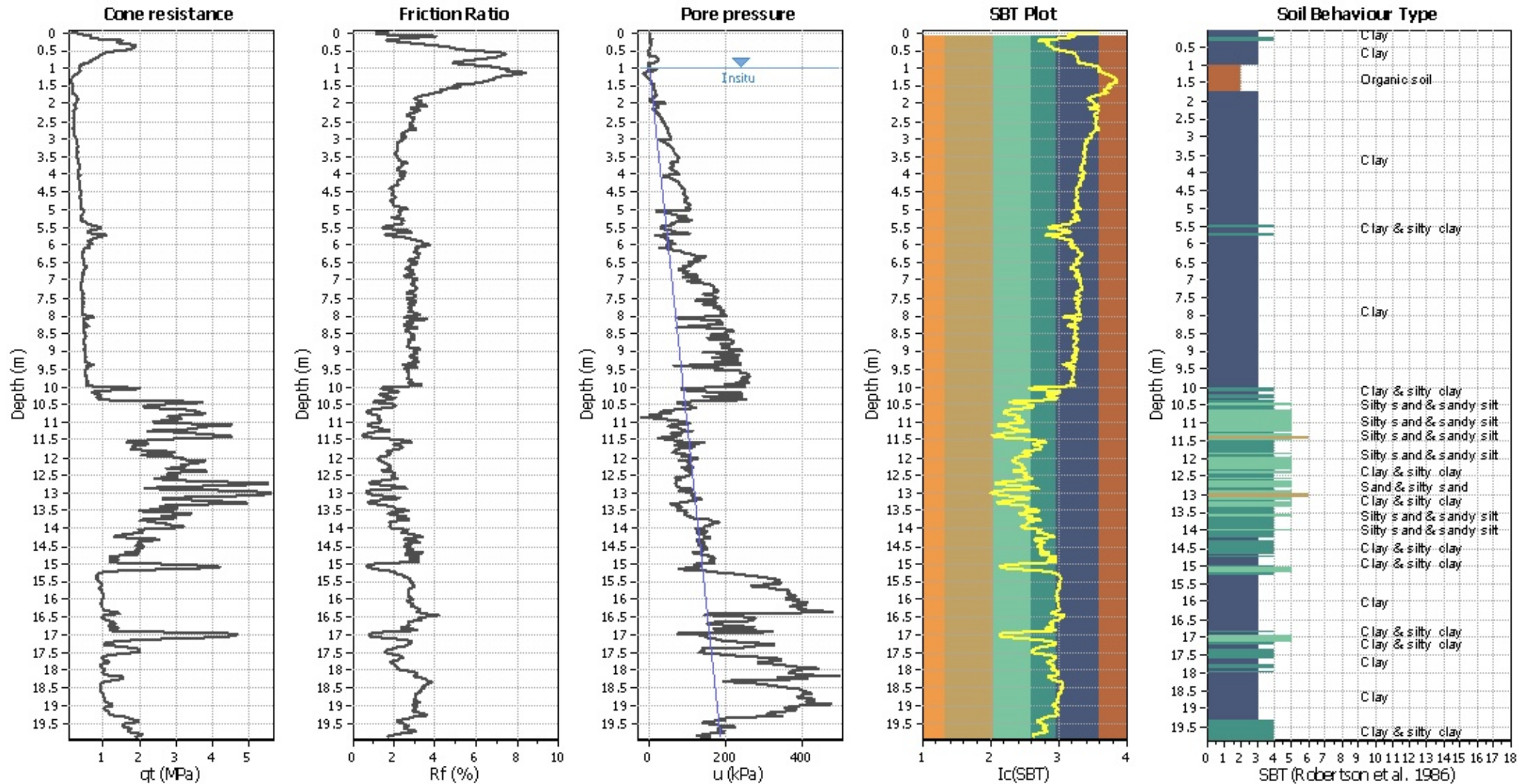
CPT file : CPTU3

Input parameters and analysis data

| | | | | | | | |
|------------------------------|-------------------|---------------------------|--------------|-------------------------|-----|----------------------|--------------|
| Analysis method: | NCEER (1998) | G.W.T. (in-situ): | 1.00 m | Use fill: | No | Clay like behavior | |
| Fines correction method: | NCEER (1998) | G.W.T. (earthq.): | 1.00 m | Fill height: | N/A | applied: | Sands only |
| Points to test: | Based on Ic value | Average results interval: | 3 | Fill weight: | N/A | Limit depth applied: | No |
| Earthquake magnitude M_w : | 5.75 | Ic cut-off value: | 2.60 | Trans. detect. applied: | No | Limit depth: | N/A |
| Peak ground acceleration: | 0.17 | Unit weight calculation: | Based on SBT | K_0 applied: | Yes | MSF method: | Method based |



CPT basic interpretation plo



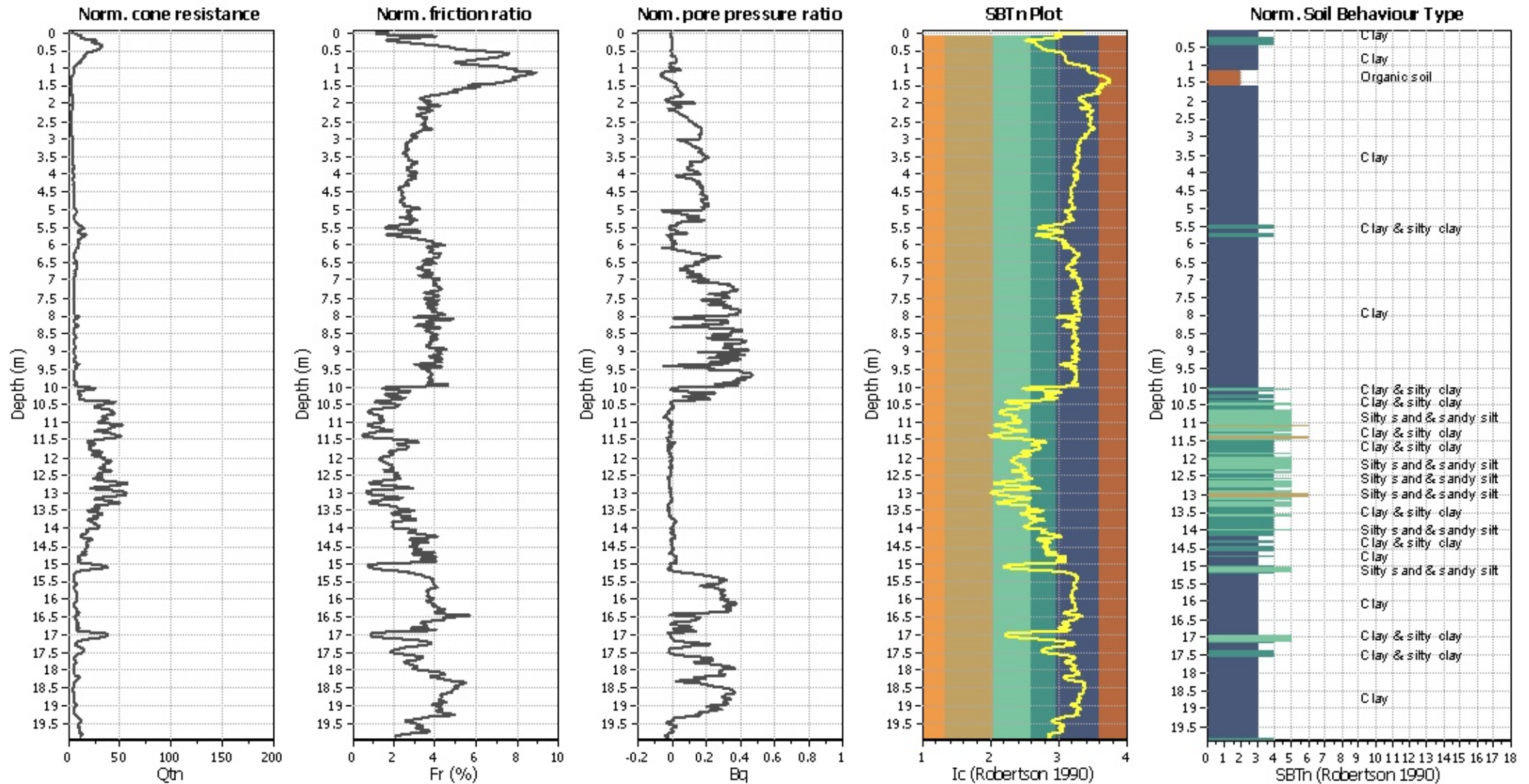
Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 5.75 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

SBT legend

| | | |
|---------------------------|-----------------------------|----------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty | 7. Gravely sand to sand |
| 2. Organic material | 5. Silty sand to sandy silt | 8. Very stiff sand to |
| 3. Clay to silty clay | 6. Clean sand to silty sand | 9. Very stiff fine grained |

CPT basic interpretation plots (normaliz



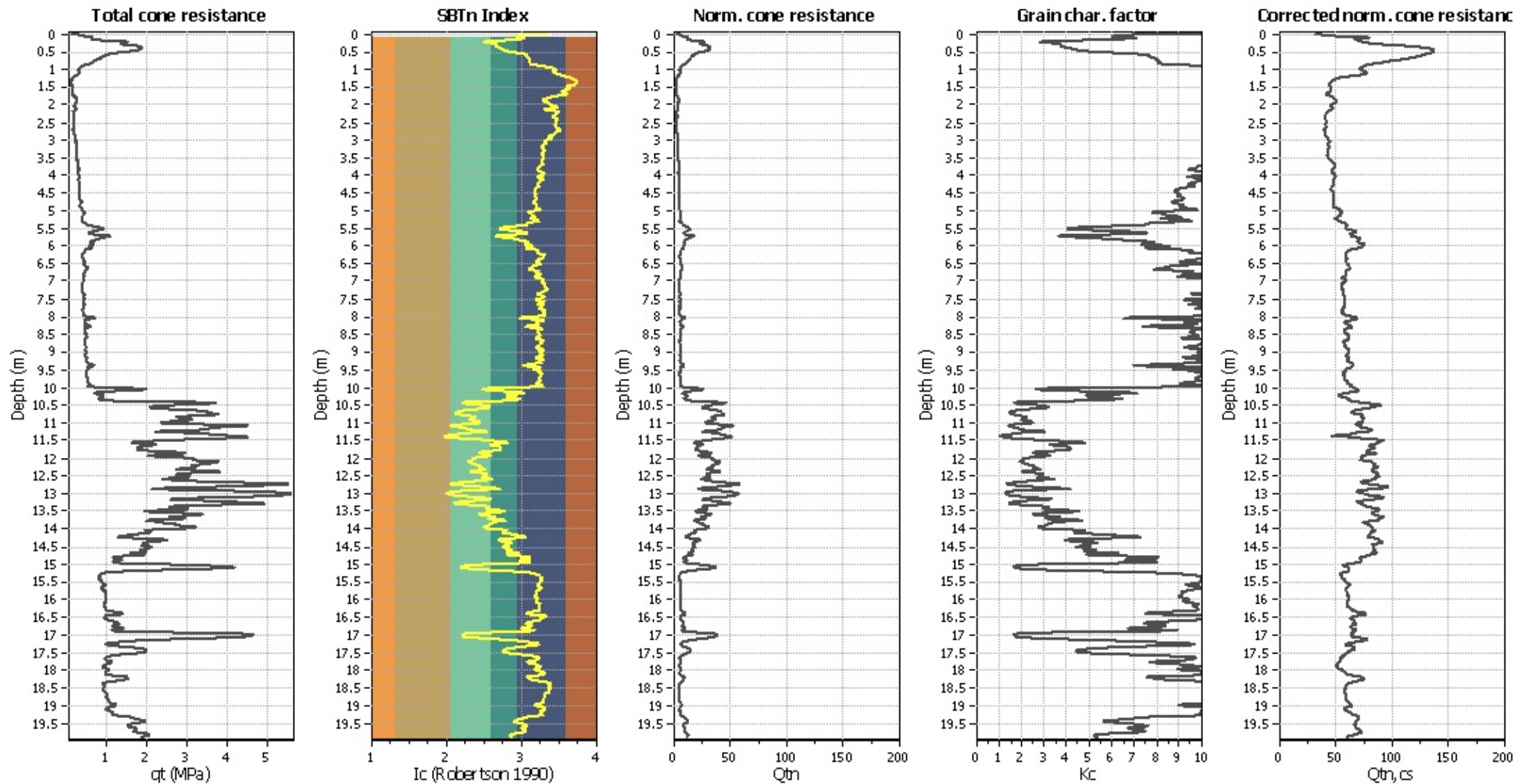
Input parameters and analysis data

| | | | | | |
|---------------------------------------|-------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K ₀ applied: | Yes |
| Earthquake magnitude M _w : | 5.75 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

SBTn legend

| | | |
|---------------------------|-----------------------------|----------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty | 7. Gravely sand to sand |
| 2. Organic material | 5. Silty sand to sandy silt | 8. Very stiff sand to |
| 3. Clay to silty clay | 6. Clean sand to silty sand | 9. Very stiff fine grained |

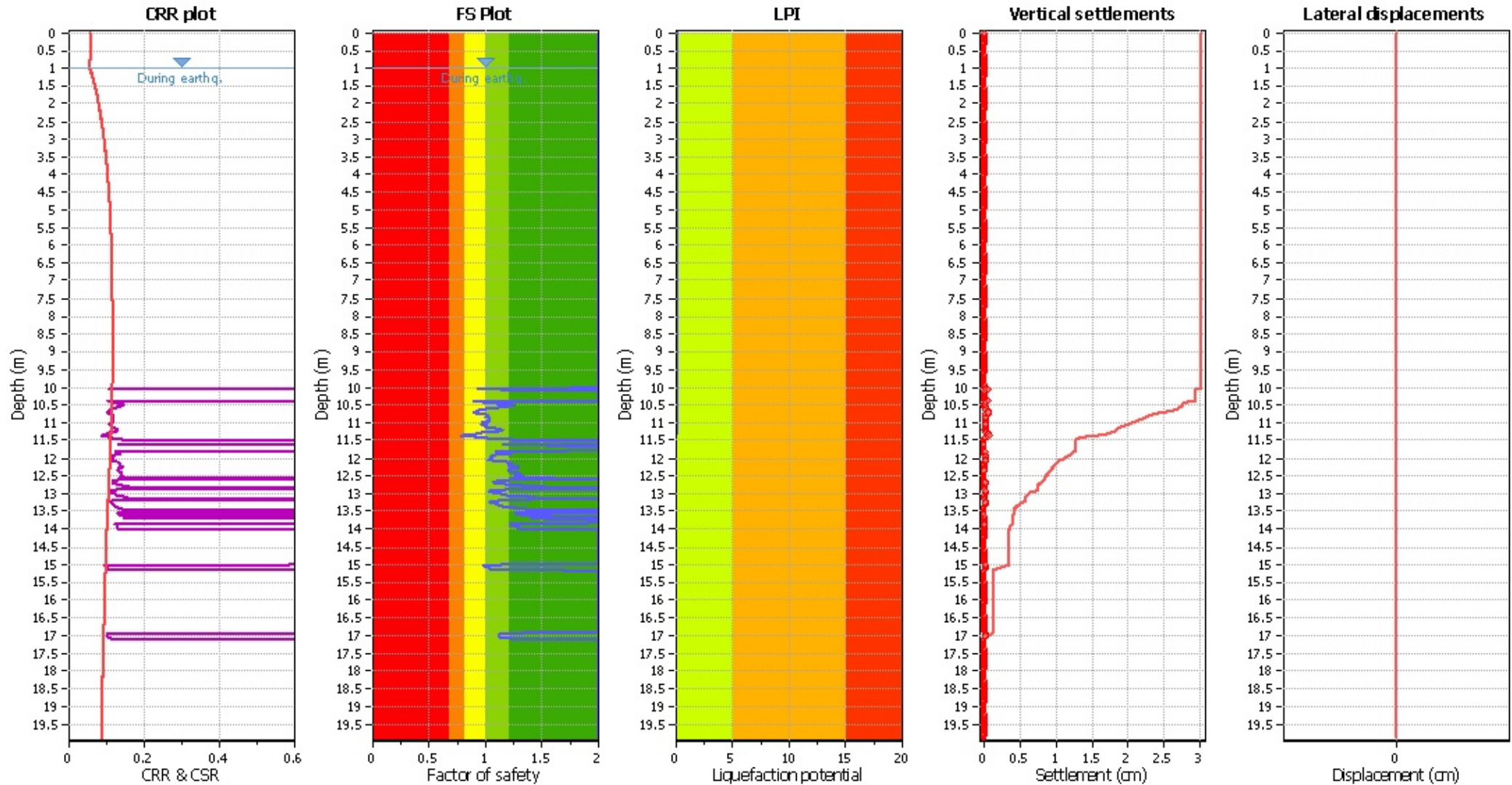
Liquefaction analysis overall plots (intermediate res)



Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 5.75 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

Liquefaction analysis overall plot



Input parameters and analysis data

| | | | | | |
|---------------------------------------|-------------------|---------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (earthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K ₀ applied: | Yes |
| Earthquake magnitude M _w : | 5.75 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

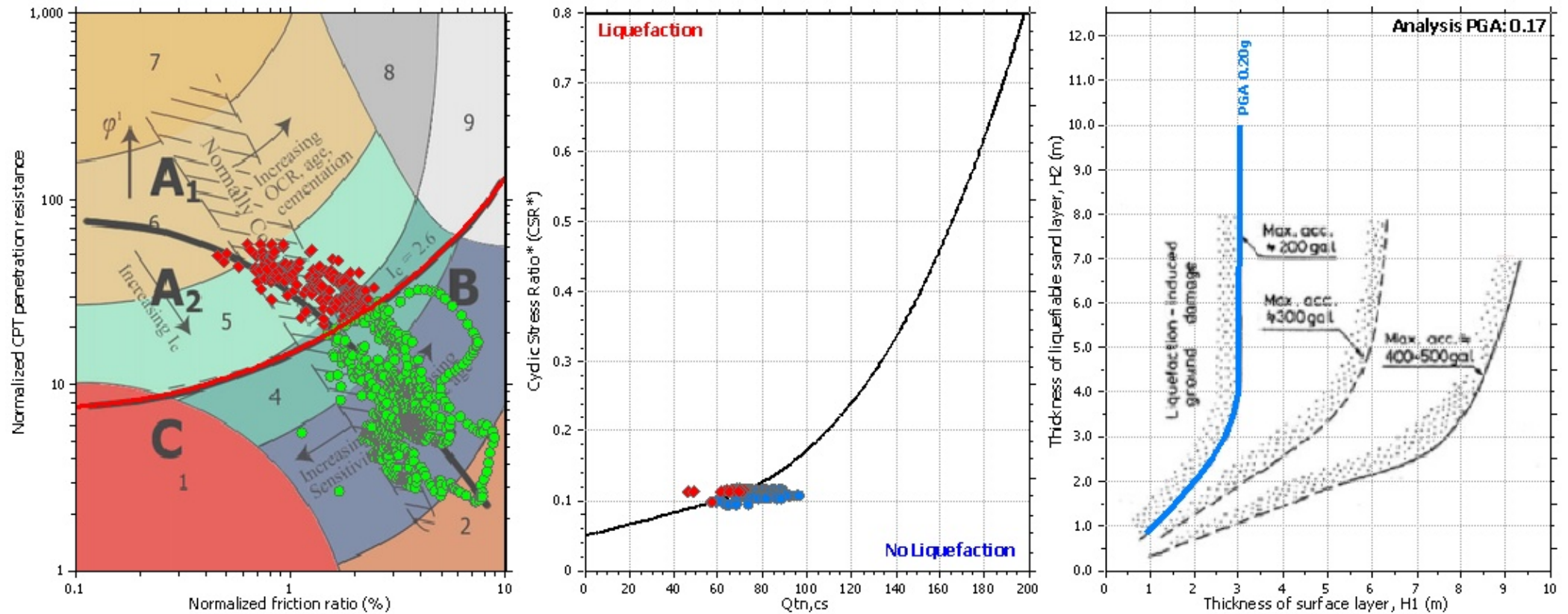
F.S. color scheme

| | |
|---|---|
| ■ | Almost certain it will liquefy |
| ■ | Very likely to liquefy |
| ■ | Liquefaction and no liq. are equally likely |
| ■ | Unlike to liquefy |
| ■ | Almost certain it will not liquefy |

LPI color scheme

| | |
|---------------------------------------|----------------|
| ■ | Very high risk |
| ■ | High risk |
| ■ | Low risk |

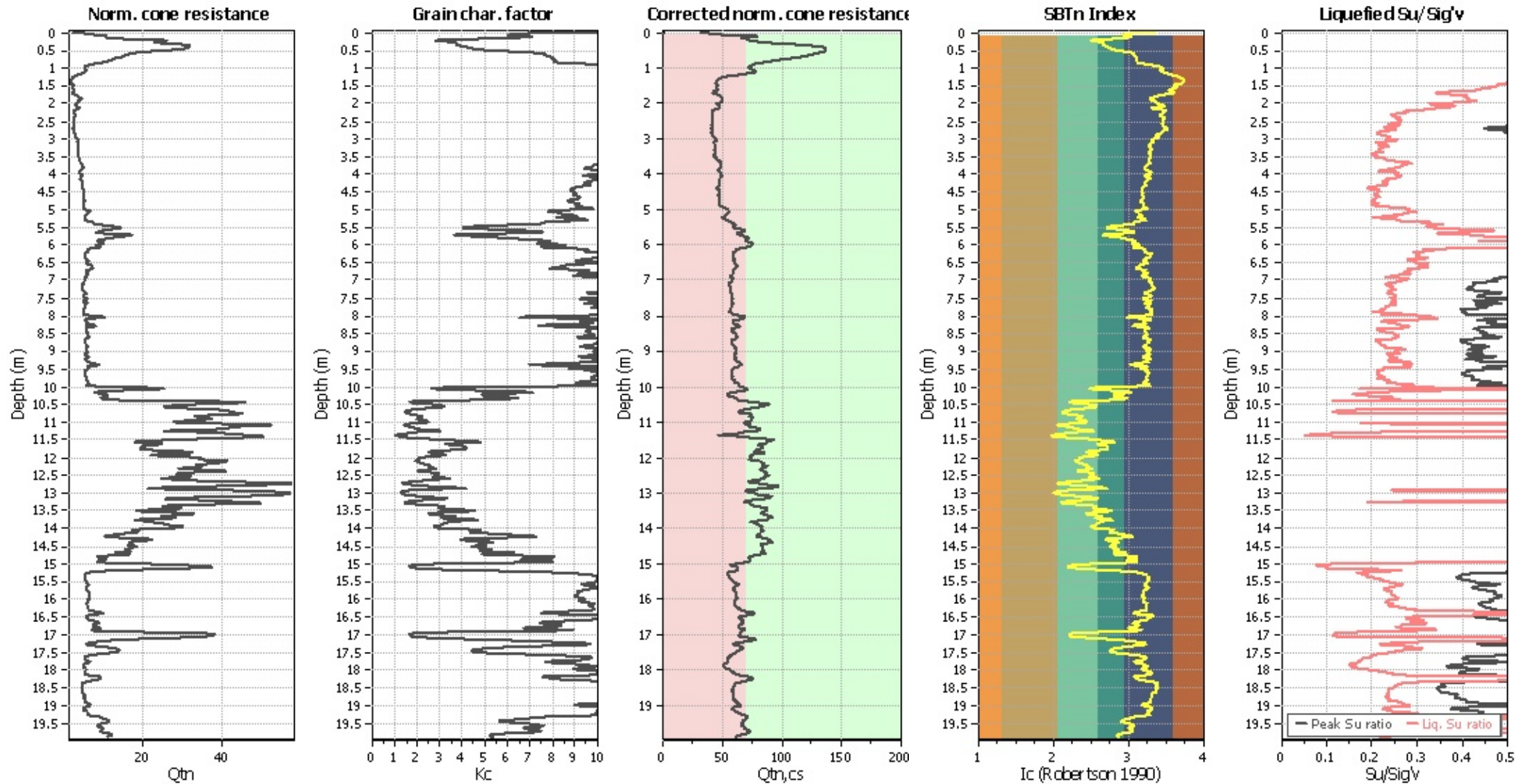
Liquefaction analysis summary plo



Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 5.75 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

Check for strength loss plots (Robertson (2010))



Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 5.75 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

| :: Liquefaction Potential Index calculation data :: | | | | | | | | | | | |
|---|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
| 0.02 | 2.00 | 0.00 | 9.99 | 0.02 | 0.00 | 0.04 | 2.00 | 0.00 | 9.98 | 0.02 | 0.00 |
| 0.06 | 2.00 | 0.00 | 9.97 | 0.02 | 0.00 | 0.08 | 2.00 | 0.00 | 9.96 | 0.02 | 0.00 |
| 0.10 | 2.00 | 0.00 | 9.95 | 0.02 | 0.00 | 0.12 | 2.00 | 0.00 | 9.94 | 0.02 | 0.00 |
| 0.14 | 2.00 | 0.00 | 9.93 | 0.02 | 0.00 | 0.16 | 2.00 | 0.00 | 9.92 | 0.02 | 0.00 |
| 0.18 | 2.00 | 0.00 | 9.91 | 0.02 | 0.00 | 0.20 | 2.00 | 0.00 | 9.90 | 0.02 | 0.00 |
| 0.22 | 2.00 | 0.00 | 9.89 | 0.02 | 0.00 | 0.24 | 2.00 | 0.00 | 9.88 | 0.02 | 0.00 |
| 0.26 | 2.00 | 0.00 | 9.87 | 0.02 | 0.00 | 0.28 | 2.00 | 0.00 | 9.86 | 0.02 | 0.00 |
| 0.30 | 2.00 | 0.00 | 9.85 | 0.02 | 0.00 | 0.32 | 2.00 | 0.00 | 9.84 | 0.02 | 0.00 |
| 0.34 | 2.00 | 0.00 | 9.83 | 0.02 | 0.00 | 0.36 | 2.00 | 0.00 | 9.82 | 0.02 | 0.00 |
| 0.38 | 2.00 | 0.00 | 9.81 | 0.02 | 0.00 | 0.40 | 2.00 | 0.00 | 9.80 | 0.02 | 0.00 |
| 0.42 | 2.00 | 0.00 | 9.79 | 0.02 | 0.00 | 0.44 | 2.00 | 0.00 | 9.78 | 0.02 | 0.00 |
| 0.46 | 2.00 | 0.00 | 9.77 | 0.02 | 0.00 | 0.48 | 2.00 | 0.00 | 9.76 | 0.02 | 0.00 |
| 0.50 | 2.00 | 0.00 | 9.75 | 0.02 | 0.00 | 0.52 | 2.00 | 0.00 | 9.74 | 0.02 | 0.00 |
| 0.54 | 2.00 | 0.00 | 9.73 | 0.02 | 0.00 | 0.56 | 2.00 | 0.00 | 9.72 | 0.02 | 0.00 |
| 0.58 | 2.00 | 0.00 | 9.71 | 0.02 | 0.00 | 0.60 | 2.00 | 0.00 | 9.70 | 0.02 | 0.00 |
| 0.62 | 2.00 | 0.00 | 9.69 | 0.02 | 0.00 | 0.64 | 2.00 | 0.00 | 9.68 | 0.02 | 0.00 |
| 0.66 | 2.00 | 0.00 | 9.67 | 0.02 | 0.00 | 0.68 | 2.00 | 0.00 | 9.66 | 0.02 | 0.00 |
| 0.70 | 2.00 | 0.00 | 9.65 | 0.02 | 0.00 | 0.72 | 2.00 | 0.00 | 9.64 | 0.02 | 0.00 |
| 0.74 | 2.00 | 0.00 | 9.63 | 0.02 | 0.00 | 0.76 | 2.00 | 0.00 | 9.62 | 0.02 | 0.00 |
| 0.78 | 2.00 | 0.00 | 9.61 | 0.02 | 0.00 | 0.80 | 2.00 | 0.00 | 9.60 | 0.02 | 0.00 |
| 0.82 | 2.00 | 0.00 | 9.59 | 0.02 | 0.00 | 0.84 | 2.00 | 0.00 | 9.58 | 0.02 | 0.00 |
| 0.86 | 2.00 | 0.00 | 9.57 | 0.02 | 0.00 | 0.88 | 2.00 | 0.00 | 9.56 | 0.02 | 0.00 |
| 0.90 | 2.00 | 0.00 | 9.55 | 0.02 | 0.00 | 0.92 | 2.00 | 0.00 | 9.54 | 0.02 | 0.00 |
| 0.94 | 2.00 | 0.00 | 9.53 | 0.02 | 0.00 | 0.96 | 2.00 | 0.00 | 9.52 | 0.02 | 0.00 |
| 0.98 | 2.00 | 0.00 | 9.51 | 0.02 | 0.00 | 1.00 | 2.00 | 0.00 | 9.50 | 0.02 | 0.00 |
| 1.02 | 2.00 | 0.00 | 9.49 | 0.02 | 0.00 | 1.04 | 2.00 | 0.00 | 9.48 | 0.02 | 0.00 |
| 1.06 | 2.00 | 0.00 | 9.47 | 0.02 | 0.00 | 1.08 | 2.00 | 0.00 | 9.46 | 0.02 | 0.00 |
| 1.10 | 2.00 | 0.00 | 9.45 | 0.02 | 0.00 | 1.12 | 2.00 | 0.00 | 9.44 | 0.02 | 0.00 |
| 1.14 | 2.00 | 0.00 | 9.43 | 0.02 | 0.00 | 1.16 | 2.00 | 0.00 | 9.42 | 0.02 | 0.00 |
| 1.18 | 2.00 | 0.00 | 9.41 | 0.02 | 0.00 | 1.20 | 2.00 | 0.00 | 9.40 | 0.02 | 0.00 |
| 1.22 | 2.00 | 0.00 | 9.39 | 0.02 | 0.00 | 1.24 | 2.00 | 0.00 | 9.38 | 0.02 | 0.00 |
| 1.26 | 2.00 | 0.00 | 9.37 | 0.02 | 0.00 | 1.28 | 2.00 | 0.00 | 9.36 | 0.02 | 0.00 |
| 1.30 | 2.00 | 0.00 | 9.35 | 0.02 | 0.00 | 1.32 | 2.00 | 0.00 | 9.34 | 0.02 | 0.00 |
| 1.34 | 2.00 | 0.00 | 9.33 | 0.02 | 0.00 | 1.36 | 2.00 | 0.00 | 9.32 | 0.02 | 0.00 |
| 1.38 | 2.00 | 0.00 | 9.31 | 0.02 | 0.00 | 1.40 | 2.00 | 0.00 | 9.30 | 0.02 | 0.00 |
| 1.42 | 2.00 | 0.00 | 9.29 | 0.02 | 0.00 | 1.44 | 2.00 | 0.00 | 9.28 | 0.02 | 0.00 |
| 1.46 | 2.00 | 0.00 | 9.27 | 0.02 | 0.00 | 1.48 | 2.00 | 0.00 | 9.26 | 0.02 | 0.00 |
| 1.50 | 2.00 | 0.00 | 9.25 | 0.02 | 0.00 | 1.52 | 2.00 | 0.00 | 9.24 | 0.02 | 0.00 |
| 1.54 | 2.00 | 0.00 | 9.23 | 0.02 | 0.00 | 1.56 | 2.00 | 0.00 | 9.22 | 0.02 | 0.00 |
| 1.58 | 2.00 | 0.00 | 9.21 | 0.02 | 0.00 | 1.60 | 2.00 | 0.00 | 9.20 | 0.02 | 0.00 |
| 1.62 | 2.00 | 0.00 | 9.19 | 0.02 | 0.00 | 1.64 | 2.00 | 0.00 | 9.18 | 0.02 | 0.00 |
| 1.66 | 2.00 | 0.00 | 9.17 | 0.02 | 0.00 | 1.68 | 2.00 | 0.00 | 9.16 | 0.02 | 0.00 |
| 1.70 | 2.00 | 0.00 | 9.15 | 0.02 | 0.00 | 1.72 | 2.00 | 0.00 | 9.14 | 0.02 | 0.00 |
| 1.74 | 2.00 | 0.00 | 9.13 | 0.02 | 0.00 | 1.76 | 2.00 | 0.00 | 9.12 | 0.02 | 0.00 |
| 1.78 | 2.00 | 0.00 | 9.11 | 0.02 | 0.00 | 1.80 | 2.00 | 0.00 | 9.10 | 0.02 | 0.00 |
| 1.82 | 2.00 | 0.00 | 9.09 | 0.02 | 0.00 | 1.84 | 2.00 | 0.00 | 9.08 | 0.02 | 0.00 |
| 1.86 | 2.00 | 0.00 | 9.07 | 0.02 | 0.00 | 1.88 | 2.00 | 0.00 | 9.06 | 0.02 | 0.00 |
| 1.90 | 2.00 | 0.00 | 9.05 | 0.02 | 0.00 | 1.92 | 2.00 | 0.00 | 9.04 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 1.94 | 2.00 | 0.00 | 9.03 | 0.02 | 0.00 | 1.96 | 2.00 | 0.00 | 9.02 | 0.02 | 0.00 |
| 1.98 | 2.00 | 0.00 | 9.01 | 0.02 | 0.00 | 2.00 | 2.00 | 0.00 | 9.00 | 0.02 | 0.00 |
| 2.02 | 2.00 | 0.00 | 8.99 | 0.02 | 0.00 | 2.04 | 2.00 | 0.00 | 8.98 | 0.02 | 0.00 |
| 2.06 | 2.00 | 0.00 | 8.97 | 0.02 | 0.00 | 2.08 | 2.00 | 0.00 | 8.96 | 0.02 | 0.00 |
| 2.10 | 2.00 | 0.00 | 8.95 | 0.02 | 0.00 | 2.12 | 2.00 | 0.00 | 8.94 | 0.02 | 0.00 |
| 2.14 | 2.00 | 0.00 | 8.93 | 0.02 | 0.00 | 2.16 | 2.00 | 0.00 | 8.92 | 0.02 | 0.00 |
| 2.18 | 2.00 | 0.00 | 8.91 | 0.02 | 0.00 | 2.20 | 2.00 | 0.00 | 8.90 | 0.02 | 0.00 |
| 2.22 | 2.00 | 0.00 | 8.89 | 0.02 | 0.00 | 2.24 | 2.00 | 0.00 | 8.88 | 0.02 | 0.00 |
| 2.26 | 2.00 | 0.00 | 8.87 | 0.02 | 0.00 | 2.28 | 2.00 | 0.00 | 8.86 | 0.02 | 0.00 |
| 2.30 | 2.00 | 0.00 | 8.85 | 0.02 | 0.00 | 2.32 | 2.00 | 0.00 | 8.84 | 0.02 | 0.00 |
| 2.34 | 2.00 | 0.00 | 8.83 | 0.02 | 0.00 | 2.36 | 2.00 | 0.00 | 8.82 | 0.02 | 0.00 |
| 2.38 | 2.00 | 0.00 | 8.81 | 0.02 | 0.00 | 2.40 | 2.00 | 0.00 | 8.80 | 0.02 | 0.00 |
| 2.42 | 2.00 | 0.00 | 8.79 | 0.02 | 0.00 | 2.44 | 2.00 | 0.00 | 8.78 | 0.02 | 0.00 |
| 2.46 | 2.00 | 0.00 | 8.77 | 0.02 | 0.00 | 2.48 | 2.00 | 0.00 | 8.76 | 0.02 | 0.00 |
| 2.50 | 2.00 | 0.00 | 8.75 | 0.02 | 0.00 | 2.52 | 2.00 | 0.00 | 8.74 | 0.02 | 0.00 |
| 2.54 | 2.00 | 0.00 | 8.73 | 0.02 | 0.00 | 2.56 | 2.00 | 0.00 | 8.72 | 0.02 | 0.00 |
| 2.58 | 2.00 | 0.00 | 8.71 | 0.02 | 0.00 | 2.60 | 2.00 | 0.00 | 8.70 | 0.02 | 0.00 |
| 2.62 | 2.00 | 0.00 | 8.69 | 0.02 | 0.00 | 2.64 | 2.00 | 0.00 | 8.68 | 0.02 | 0.00 |
| 2.66 | 2.00 | 0.00 | 8.67 | 0.02 | 0.00 | 2.68 | 2.00 | 0.00 | 8.66 | 0.02 | 0.00 |
| 2.70 | 2.00 | 0.00 | 8.65 | 0.02 | 0.00 | 2.72 | 2.00 | 0.00 | 8.64 | 0.02 | 0.00 |
| 2.74 | 2.00 | 0.00 | 8.63 | 0.02 | 0.00 | 2.76 | 2.00 | 0.00 | 8.62 | 0.02 | 0.00 |
| 2.78 | 2.00 | 0.00 | 8.61 | 0.02 | 0.00 | 2.80 | 2.00 | 0.00 | 8.60 | 0.02 | 0.00 |
| 2.82 | 2.00 | 0.00 | 8.59 | 0.02 | 0.00 | 2.84 | 2.00 | 0.00 | 8.58 | 0.02 | 0.00 |
| 2.86 | 2.00 | 0.00 | 8.57 | 0.02 | 0.00 | 2.88 | 2.00 | 0.00 | 8.56 | 0.02 | 0.00 |
| 2.90 | 2.00 | 0.00 | 8.55 | 0.02 | 0.00 | 2.92 | 2.00 | 0.00 | 8.54 | 0.02 | 0.00 |
| 2.94 | 2.00 | 0.00 | 8.53 | 0.02 | 0.00 | 2.96 | 2.00 | 0.00 | 8.52 | 0.02 | 0.00 |
| 2.98 | 2.00 | 0.00 | 8.51 | 0.02 | 0.00 | 3.00 | 2.00 | 0.00 | 8.50 | 0.02 | 0.00 |
| 3.02 | 2.00 | 0.00 | 8.49 | 0.02 | 0.00 | 3.04 | 2.00 | 0.00 | 8.48 | 0.02 | 0.00 |
| 3.06 | 2.00 | 0.00 | 8.47 | 0.02 | 0.00 | 3.08 | 2.00 | 0.00 | 8.46 | 0.02 | 0.00 |
| 3.10 | 2.00 | 0.00 | 8.45 | 0.02 | 0.00 | 3.12 | 2.00 | 0.00 | 8.44 | 0.02 | 0.00 |
| 3.14 | 2.00 | 0.00 | 8.43 | 0.02 | 0.00 | 3.16 | 2.00 | 0.00 | 8.42 | 0.02 | 0.00 |
| 3.18 | 2.00 | 0.00 | 8.41 | 0.02 | 0.00 | 3.20 | 2.00 | 0.00 | 8.40 | 0.02 | 0.00 |
| 3.22 | 2.00 | 0.00 | 8.39 | 0.02 | 0.00 | 3.24 | 2.00 | 0.00 | 8.38 | 0.02 | 0.00 |
| 3.26 | 2.00 | 0.00 | 8.37 | 0.02 | 0.00 | 3.28 | 2.00 | 0.00 | 8.36 | 0.02 | 0.00 |
| 3.30 | 2.00 | 0.00 | 8.35 | 0.02 | 0.00 | 3.32 | 2.00 | 0.00 | 8.34 | 0.02 | 0.00 |
| 3.34 | 2.00 | 0.00 | 8.33 | 0.02 | 0.00 | 3.36 | 2.00 | 0.00 | 8.32 | 0.02 | 0.00 |
| 3.38 | 2.00 | 0.00 | 8.31 | 0.02 | 0.00 | 3.40 | 2.00 | 0.00 | 8.30 | 0.02 | 0.00 |
| 3.42 | 2.00 | 0.00 | 8.29 | 0.02 | 0.00 | 3.44 | 2.00 | 0.00 | 8.28 | 0.02 | 0.00 |
| 3.46 | 2.00 | 0.00 | 8.27 | 0.02 | 0.00 | 3.48 | 2.00 | 0.00 | 8.26 | 0.02 | 0.00 |
| 3.50 | 2.00 | 0.00 | 8.25 | 0.02 | 0.00 | 3.52 | 2.00 | 0.00 | 8.24 | 0.02 | 0.00 |
| 3.54 | 2.00 | 0.00 | 8.23 | 0.02 | 0.00 | 3.56 | 2.00 | 0.00 | 8.22 | 0.02 | 0.00 |
| 3.58 | 2.00 | 0.00 | 8.21 | 0.02 | 0.00 | 3.60 | 2.00 | 0.00 | 8.20 | 0.02 | 0.00 |
| 3.62 | 2.00 | 0.00 | 8.19 | 0.02 | 0.00 | 3.64 | 2.00 | 0.00 | 8.18 | 0.02 | 0.00 |
| 3.66 | 2.00 | 0.00 | 8.17 | 0.02 | 0.00 | 3.68 | 2.00 | 0.00 | 8.16 | 0.02 | 0.00 |
| 3.70 | 2.00 | 0.00 | 8.15 | 0.02 | 0.00 | 3.72 | 2.00 | 0.00 | 8.14 | 0.02 | 0.00 |
| 3.74 | 2.00 | 0.00 | 8.13 | 0.02 | 0.00 | 3.76 | 2.00 | 0.00 | 8.12 | 0.02 | 0.00 |
| 3.78 | 2.00 | 0.00 | 8.11 | 0.02 | 0.00 | 3.80 | 2.00 | 0.00 | 8.10 | 0.02 | 0.00 |
| 3.82 | 2.00 | 0.00 | 8.09 | 0.02 | 0.00 | 3.84 | 2.00 | 0.00 | 8.08 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 3.86 | 2.00 | 0.00 | 8.07 | 0.02 | 0.00 | 3.88 | 2.00 | 0.00 | 8.06 | 0.02 | 0.00 |
| 3.90 | 2.00 | 0.00 | 8.05 | 0.02 | 0.00 | 3.92 | 2.00 | 0.00 | 8.04 | 0.02 | 0.00 |
| 3.94 | 2.00 | 0.00 | 8.03 | 0.02 | 0.00 | 3.96 | 2.00 | 0.00 | 8.02 | 0.02 | 0.00 |
| 3.98 | 2.00 | 0.00 | 8.01 | 0.02 | 0.00 | 4.00 | 2.00 | 0.00 | 8.00 | 0.02 | 0.00 |
| 4.02 | 2.00 | 0.00 | 7.99 | 0.02 | 0.00 | 4.04 | 2.00 | 0.00 | 7.98 | 0.02 | 0.00 |
| 4.06 | 2.00 | 0.00 | 7.97 | 0.02 | 0.00 | 4.08 | 2.00 | 0.00 | 7.96 | 0.02 | 0.00 |
| 4.10 | 2.00 | 0.00 | 7.95 | 0.02 | 0.00 | 4.12 | 2.00 | 0.00 | 7.94 | 0.02 | 0.00 |
| 4.14 | 2.00 | 0.00 | 7.93 | 0.02 | 0.00 | 4.16 | 2.00 | 0.00 | 7.92 | 0.02 | 0.00 |
| 4.18 | 2.00 | 0.00 | 7.91 | 0.02 | 0.00 | 4.20 | 2.00 | 0.00 | 7.90 | 0.02 | 0.00 |
| 4.22 | 2.00 | 0.00 | 7.89 | 0.02 | 0.00 | 4.24 | 2.00 | 0.00 | 7.88 | 0.02 | 0.00 |
| 4.26 | 2.00 | 0.00 | 7.87 | 0.02 | 0.00 | 4.28 | 2.00 | 0.00 | 7.86 | 0.02 | 0.00 |
| 4.30 | 2.00 | 0.00 | 7.85 | 0.02 | 0.00 | 4.32 | 2.00 | 0.00 | 7.84 | 0.02 | 0.00 |
| 4.34 | 2.00 | 0.00 | 7.83 | 0.02 | 0.00 | 4.36 | 2.00 | 0.00 | 7.82 | 0.02 | 0.00 |
| 4.38 | 2.00 | 0.00 | 7.81 | 0.02 | 0.00 | 4.40 | 2.00 | 0.00 | 7.80 | 0.02 | 0.00 |
| 4.42 | 2.00 | 0.00 | 7.79 | 0.02 | 0.00 | 4.44 | 2.00 | 0.00 | 7.78 | 0.02 | 0.00 |
| 4.46 | 2.00 | 0.00 | 7.77 | 0.02 | 0.00 | 4.48 | 2.00 | 0.00 | 7.76 | 0.02 | 0.00 |
| 4.50 | 2.00 | 0.00 | 7.75 | 0.02 | 0.00 | 4.52 | 2.00 | 0.00 | 7.74 | 0.02 | 0.00 |
| 4.54 | 2.00 | 0.00 | 7.73 | 0.02 | 0.00 | 4.56 | 2.00 | 0.00 | 7.72 | 0.02 | 0.00 |
| 4.58 | 2.00 | 0.00 | 7.71 | 0.02 | 0.00 | 4.60 | 2.00 | 0.00 | 7.70 | 0.02 | 0.00 |
| 4.62 | 2.00 | 0.00 | 7.69 | 0.02 | 0.00 | 4.64 | 2.00 | 0.00 | 7.68 | 0.02 | 0.00 |
| 4.66 | 2.00 | 0.00 | 7.67 | 0.02 | 0.00 | 4.68 | 2.00 | 0.00 | 7.66 | 0.02 | 0.00 |
| 4.70 | 2.00 | 0.00 | 7.65 | 0.02 | 0.00 | 4.72 | 2.00 | 0.00 | 7.64 | 0.02 | 0.00 |
| 4.74 | 2.00 | 0.00 | 7.63 | 0.02 | 0.00 | 4.76 | 2.00 | 0.00 | 7.62 | 0.02 | 0.00 |
| 4.78 | 2.00 | 0.00 | 7.61 | 0.02 | 0.00 | 4.80 | 2.00 | 0.00 | 7.60 | 0.02 | 0.00 |
| 4.82 | 2.00 | 0.00 | 7.59 | 0.02 | 0.00 | 4.84 | 2.00 | 0.00 | 7.58 | 0.02 | 0.00 |
| 4.86 | 2.00 | 0.00 | 7.57 | 0.02 | 0.00 | 4.88 | 2.00 | 0.00 | 7.56 | 0.02 | 0.00 |
| 4.90 | 2.00 | 0.00 | 7.55 | 0.02 | 0.00 | 4.92 | 2.00 | 0.00 | 7.54 | 0.02 | 0.00 |
| 4.94 | 2.00 | 0.00 | 7.53 | 0.02 | 0.00 | 4.96 | 2.00 | 0.00 | 7.52 | 0.02 | 0.00 |
| 4.98 | 2.00 | 0.00 | 7.51 | 0.02 | 0.00 | 5.00 | 2.00 | 0.00 | 7.50 | 0.02 | 0.00 |
| 5.02 | 2.00 | 0.00 | 7.49 | 0.02 | 0.00 | 5.04 | 2.00 | 0.00 | 7.48 | 0.02 | 0.00 |
| 5.06 | 2.00 | 0.00 | 7.47 | 0.02 | 0.00 | 5.08 | 2.00 | 0.00 | 7.46 | 0.02 | 0.00 |
| 5.10 | 2.00 | 0.00 | 7.45 | 0.02 | 0.00 | 5.12 | 2.00 | 0.00 | 7.44 | 0.02 | 0.00 |
| 5.14 | 2.00 | 0.00 | 7.43 | 0.02 | 0.00 | 5.16 | 2.00 | 0.00 | 7.42 | 0.02 | 0.00 |
| 5.18 | 2.00 | 0.00 | 7.41 | 0.02 | 0.00 | 5.20 | 2.00 | 0.00 | 7.40 | 0.02 | 0.00 |
| 5.22 | 2.00 | 0.00 | 7.39 | 0.02 | 0.00 | 5.24 | 2.00 | 0.00 | 7.38 | 0.02 | 0.00 |
| 5.26 | 2.00 | 0.00 | 7.37 | 0.02 | 0.00 | 5.28 | 2.00 | 0.00 | 7.36 | 0.02 | 0.00 |
| 5.30 | 2.00 | 0.00 | 7.35 | 0.02 | 0.00 | 5.32 | 2.00 | 0.00 | 7.34 | 0.02 | 0.00 |
| 5.34 | 2.00 | 0.00 | 7.33 | 0.02 | 0.00 | 5.36 | 2.00 | 0.00 | 7.32 | 0.02 | 0.00 |
| 5.38 | 2.00 | 0.00 | 7.31 | 0.02 | 0.00 | 5.40 | 2.00 | 0.00 | 7.30 | 0.02 | 0.00 |
| 5.42 | 2.00 | 0.00 | 7.29 | 0.02 | 0.00 | 5.44 | 2.00 | 0.00 | 7.28 | 0.02 | 0.00 |
| 5.46 | 2.00 | 0.00 | 7.27 | 0.02 | 0.00 | 5.48 | 2.00 | 0.00 | 7.26 | 0.02 | 0.00 |
| 5.50 | 2.00 | 0.00 | 7.25 | 0.02 | 0.00 | 5.52 | 2.00 | 0.00 | 7.24 | 0.02 | 0.00 |
| 5.54 | 2.00 | 0.00 | 7.23 | 0.02 | 0.00 | 5.56 | 2.00 | 0.00 | 7.22 | 0.02 | 0.00 |
| 5.58 | 2.00 | 0.00 | 7.21 | 0.02 | 0.00 | 5.60 | 2.00 | 0.00 | 7.20 | 0.02 | 0.00 |
| 5.62 | 2.00 | 0.00 | 7.19 | 0.02 | 0.00 | 5.64 | 2.00 | 0.00 | 7.18 | 0.02 | 0.00 |
| 5.66 | 2.00 | 0.00 | 7.17 | 0.02 | 0.00 | 5.68 | 2.00 | 0.00 | 7.16 | 0.02 | 0.00 |
| 5.70 | 2.00 | 0.00 | 7.15 | 0.02 | 0.00 | 5.72 | 2.00 | 0.00 | 7.14 | 0.02 | 0.00 |
| 5.74 | 2.00 | 0.00 | 7.13 | 0.02 | 0.00 | 5.76 | 2.00 | 0.00 | 7.12 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 5.78 | 2.00 | 0.00 | 7.11 | 0.02 | 0.00 | 5.80 | 2.00 | 0.00 | 7.10 | 0.02 | 0.00 |
| 5.82 | 2.00 | 0.00 | 7.09 | 0.02 | 0.00 | 5.84 | 2.00 | 0.00 | 7.08 | 0.02 | 0.00 |
| 5.86 | 2.00 | 0.00 | 7.07 | 0.02 | 0.00 | 5.88 | 2.00 | 0.00 | 7.06 | 0.02 | 0.00 |
| 5.90 | 2.00 | 0.00 | 7.05 | 0.02 | 0.00 | 5.92 | 2.00 | 0.00 | 7.04 | 0.02 | 0.00 |
| 5.94 | 2.00 | 0.00 | 7.03 | 0.02 | 0.00 | 5.96 | 2.00 | 0.00 | 7.02 | 0.02 | 0.00 |
| 5.98 | 2.00 | 0.00 | 7.01 | 0.02 | 0.00 | 6.00 | 2.00 | 0.00 | 7.00 | 0.02 | 0.00 |
| 6.02 | 2.00 | 0.00 | 6.99 | 0.02 | 0.00 | 6.04 | 2.00 | 0.00 | 6.98 | 0.02 | 0.00 |
| 6.06 | 2.00 | 0.00 | 6.97 | 0.02 | 0.00 | 6.08 | 2.00 | 0.00 | 6.96 | 0.02 | 0.00 |
| 6.10 | 2.00 | 0.00 | 6.95 | 0.02 | 0.00 | 6.12 | 2.00 | 0.00 | 6.94 | 0.02 | 0.00 |
| 6.14 | 2.00 | 0.00 | 6.93 | 0.02 | 0.00 | 6.16 | 2.00 | 0.00 | 6.92 | 0.02 | 0.00 |
| 6.18 | 2.00 | 0.00 | 6.91 | 0.02 | 0.00 | 6.20 | 2.00 | 0.00 | 6.90 | 0.02 | 0.00 |
| 6.22 | 2.00 | 0.00 | 6.89 | 0.02 | 0.00 | 6.24 | 2.00 | 0.00 | 6.88 | 0.02 | 0.00 |
| 6.26 | 2.00 | 0.00 | 6.87 | 0.02 | 0.00 | 6.28 | 2.00 | 0.00 | 6.86 | 0.02 | 0.00 |
| 6.30 | 2.00 | 0.00 | 6.85 | 0.02 | 0.00 | 6.32 | 2.00 | 0.00 | 6.84 | 0.02 | 0.00 |
| 6.34 | 2.00 | 0.00 | 6.83 | 0.02 | 0.00 | 6.36 | 2.00 | 0.00 | 6.82 | 0.02 | 0.00 |
| 6.38 | 2.00 | 0.00 | 6.81 | 0.02 | 0.00 | 6.40 | 2.00 | 0.00 | 6.80 | 0.02 | 0.00 |
| 6.42 | 2.00 | 0.00 | 6.79 | 0.02 | 0.00 | 6.44 | 2.00 | 0.00 | 6.78 | 0.02 | 0.00 |
| 6.46 | 2.00 | 0.00 | 6.77 | 0.02 | 0.00 | 6.48 | 2.00 | 0.00 | 6.76 | 0.02 | 0.00 |
| 6.50 | 2.00 | 0.00 | 6.75 | 0.02 | 0.00 | 6.52 | 2.00 | 0.00 | 6.74 | 0.02 | 0.00 |
| 6.54 | 2.00 | 0.00 | 6.73 | 0.02 | 0.00 | 6.56 | 2.00 | 0.00 | 6.72 | 0.02 | 0.00 |
| 6.58 | 2.00 | 0.00 | 6.71 | 0.02 | 0.00 | 6.60 | 2.00 | 0.00 | 6.70 | 0.02 | 0.00 |
| 6.62 | 2.00 | 0.00 | 6.69 | 0.02 | 0.00 | 6.64 | 2.00 | 0.00 | 6.68 | 0.02 | 0.00 |
| 6.66 | 2.00 | 0.00 | 6.67 | 0.02 | 0.00 | 6.68 | 2.00 | 0.00 | 6.66 | 0.02 | 0.00 |
| 6.70 | 2.00 | 0.00 | 6.65 | 0.02 | 0.00 | 6.72 | 2.00 | 0.00 | 6.64 | 0.02 | 0.00 |
| 6.74 | 2.00 | 0.00 | 6.63 | 0.02 | 0.00 | 6.76 | 2.00 | 0.00 | 6.62 | 0.02 | 0.00 |
| 6.78 | 2.00 | 0.00 | 6.61 | 0.02 | 0.00 | 6.80 | 2.00 | 0.00 | 6.60 | 0.02 | 0.00 |
| 6.82 | 2.00 | 0.00 | 6.59 | 0.02 | 0.00 | 6.84 | 2.00 | 0.00 | 6.58 | 0.02 | 0.00 |
| 6.86 | 2.00 | 0.00 | 6.57 | 0.02 | 0.00 | 6.88 | 2.00 | 0.00 | 6.56 | 0.02 | 0.00 |
| 6.90 | 2.00 | 0.00 | 6.55 | 0.02 | 0.00 | 6.92 | 2.00 | 0.00 | 6.54 | 0.02 | 0.00 |
| 6.94 | 2.00 | 0.00 | 6.53 | 0.02 | 0.00 | 6.96 | 2.00 | 0.00 | 6.52 | 0.02 | 0.00 |
| 6.98 | 2.00 | 0.00 | 6.51 | 0.02 | 0.00 | 7.00 | 2.00 | 0.00 | 6.50 | 0.02 | 0.00 |
| 7.02 | 2.00 | 0.00 | 6.49 | 0.02 | 0.00 | 7.04 | 2.00 | 0.00 | 6.48 | 0.02 | 0.00 |
| 7.06 | 2.00 | 0.00 | 6.47 | 0.02 | 0.00 | 7.08 | 2.00 | 0.00 | 6.46 | 0.02 | 0.00 |
| 7.10 | 2.00 | 0.00 | 6.45 | 0.02 | 0.00 | 7.12 | 2.00 | 0.00 | 6.44 | 0.02 | 0.00 |
| 7.14 | 2.00 | 0.00 | 6.43 | 0.02 | 0.00 | 7.16 | 2.00 | 0.00 | 6.42 | 0.02 | 0.00 |
| 7.18 | 2.00 | 0.00 | 6.41 | 0.02 | 0.00 | 7.20 | 2.00 | 0.00 | 6.40 | 0.02 | 0.00 |
| 7.22 | 2.00 | 0.00 | 6.39 | 0.02 | 0.00 | 7.24 | 2.00 | 0.00 | 6.38 | 0.02 | 0.00 |
| 7.26 | 2.00 | 0.00 | 6.37 | 0.02 | 0.00 | 7.28 | 2.00 | 0.00 | 6.36 | 0.02 | 0.00 |
| 7.30 | 2.00 | 0.00 | 6.35 | 0.02 | 0.00 | 7.32 | 2.00 | 0.00 | 6.34 | 0.02 | 0.00 |
| 7.34 | 2.00 | 0.00 | 6.33 | 0.02 | 0.00 | 7.36 | 2.00 | 0.00 | 6.32 | 0.02 | 0.00 |
| 7.38 | 2.00 | 0.00 | 6.31 | 0.02 | 0.00 | 7.40 | 2.00 | 0.00 | 6.30 | 0.02 | 0.00 |
| 7.42 | 2.00 | 0.00 | 6.29 | 0.02 | 0.00 | 7.44 | 2.00 | 0.00 | 6.28 | 0.02 | 0.00 |
| 7.46 | 2.00 | 0.00 | 6.27 | 0.02 | 0.00 | 7.48 | 2.00 | 0.00 | 6.26 | 0.02 | 0.00 |
| 7.50 | 2.00 | 0.00 | 6.25 | 0.02 | 0.00 | 7.52 | 2.00 | 0.00 | 6.24 | 0.02 | 0.00 |
| 7.54 | 2.00 | 0.00 | 6.23 | 0.02 | 0.00 | 7.56 | 2.00 | 0.00 | 6.22 | 0.02 | 0.00 |
| 7.58 | 2.00 | 0.00 | 6.21 | 0.02 | 0.00 | 7.60 | 2.00 | 0.00 | 6.20 | 0.02 | 0.00 |
| 7.62 | 2.00 | 0.00 | 6.19 | 0.02 | 0.00 | 7.64 | 2.00 | 0.00 | 6.18 | 0.02 | 0.00 |
| 7.66 | 2.00 | 0.00 | 6.17 | 0.02 | 0.00 | 7.68 | 2.00 | 0.00 | 6.16 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 7.70 | 2.00 | 0.00 | 6.15 | 0.02 | 0.00 | 7.72 | 2.00 | 0.00 | 6.14 | 0.02 | 0.00 |
| 7.74 | 2.00 | 0.00 | 6.13 | 0.02 | 0.00 | 7.76 | 2.00 | 0.00 | 6.12 | 0.02 | 0.00 |
| 7.78 | 2.00 | 0.00 | 6.11 | 0.02 | 0.00 | 7.80 | 2.00 | 0.00 | 6.10 | 0.02 | 0.00 |
| 7.82 | 2.00 | 0.00 | 6.09 | 0.02 | 0.00 | 7.84 | 2.00 | 0.00 | 6.08 | 0.02 | 0.00 |
| 7.86 | 2.00 | 0.00 | 6.07 | 0.02 | 0.00 | 7.88 | 2.00 | 0.00 | 6.06 | 0.02 | 0.00 |
| 7.90 | 2.00 | 0.00 | 6.05 | 0.02 | 0.00 | 7.92 | 2.00 | 0.00 | 6.04 | 0.02 | 0.00 |
| 7.94 | 2.00 | 0.00 | 6.03 | 0.02 | 0.00 | 7.96 | 2.00 | 0.00 | 6.02 | 0.02 | 0.00 |
| 7.98 | 2.00 | 0.00 | 6.01 | 0.02 | 0.00 | 8.00 | 2.00 | 0.00 | 6.00 | 0.02 | 0.00 |
| 8.02 | 2.00 | 0.00 | 5.99 | 0.02 | 0.00 | 8.04 | 2.00 | 0.00 | 5.98 | 0.02 | 0.00 |
| 8.06 | 2.00 | 0.00 | 5.97 | 0.02 | 0.00 | 8.08 | 2.00 | 0.00 | 5.96 | 0.02 | 0.00 |
| 8.10 | 2.00 | 0.00 | 5.95 | 0.02 | 0.00 | 8.12 | 2.00 | 0.00 | 5.94 | 0.02 | 0.00 |
| 8.14 | 2.00 | 0.00 | 5.93 | 0.02 | 0.00 | 8.16 | 2.00 | 0.00 | 5.92 | 0.02 | 0.00 |
| 8.18 | 2.00 | 0.00 | 5.91 | 0.02 | 0.00 | 8.20 | 2.00 | 0.00 | 5.90 | 0.02 | 0.00 |
| 8.22 | 2.00 | 0.00 | 5.89 | 0.02 | 0.00 | 8.24 | 2.00 | 0.00 | 5.88 | 0.02 | 0.00 |
| 8.26 | 2.00 | 0.00 | 5.87 | 0.02 | 0.00 | 8.28 | 2.00 | 0.00 | 5.86 | 0.02 | 0.00 |
| 8.30 | 2.00 | 0.00 | 5.85 | 0.02 | 0.00 | 8.32 | 2.00 | 0.00 | 5.84 | 0.02 | 0.00 |
| 8.34 | 2.00 | 0.00 | 5.83 | 0.02 | 0.00 | 8.36 | 2.00 | 0.00 | 5.82 | 0.02 | 0.00 |
| 8.38 | 2.00 | 0.00 | 5.81 | 0.02 | 0.00 | 8.40 | 2.00 | 0.00 | 5.80 | 0.02 | 0.00 |
| 8.42 | 2.00 | 0.00 | 5.79 | 0.02 | 0.00 | 8.44 | 2.00 | 0.00 | 5.78 | 0.02 | 0.00 |
| 8.46 | 2.00 | 0.00 | 5.77 | 0.02 | 0.00 | 8.48 | 2.00 | 0.00 | 5.76 | 0.02 | 0.00 |
| 8.50 | 2.00 | 0.00 | 5.75 | 0.02 | 0.00 | 8.52 | 2.00 | 0.00 | 5.74 | 0.02 | 0.00 |
| 8.54 | 2.00 | 0.00 | 5.73 | 0.02 | 0.00 | 8.56 | 2.00 | 0.00 | 5.72 | 0.02 | 0.00 |
| 8.58 | 2.00 | 0.00 | 5.71 | 0.02 | 0.00 | 8.60 | 2.00 | 0.00 | 5.70 | 0.02 | 0.00 |
| 8.62 | 2.00 | 0.00 | 5.69 | 0.02 | 0.00 | 8.64 | 2.00 | 0.00 | 5.68 | 0.02 | 0.00 |
| 8.66 | 2.00 | 0.00 | 5.67 | 0.02 | 0.00 | 8.68 | 2.00 | 0.00 | 5.66 | 0.02 | 0.00 |
| 8.70 | 2.00 | 0.00 | 5.65 | 0.02 | 0.00 | 8.72 | 2.00 | 0.00 | 5.64 | 0.02 | 0.00 |
| 8.74 | 2.00 | 0.00 | 5.63 | 0.02 | 0.00 | 8.76 | 2.00 | 0.00 | 5.62 | 0.02 | 0.00 |
| 8.78 | 2.00 | 0.00 | 5.61 | 0.02 | 0.00 | 8.80 | 2.00 | 0.00 | 5.60 | 0.02 | 0.00 |
| 8.82 | 2.00 | 0.00 | 5.59 | 0.02 | 0.00 | 8.84 | 2.00 | 0.00 | 5.58 | 0.02 | 0.00 |
| 8.86 | 2.00 | 0.00 | 5.57 | 0.02 | 0.00 | 8.88 | 2.00 | 0.00 | 5.56 | 0.02 | 0.00 |
| 8.90 | 2.00 | 0.00 | 5.55 | 0.02 | 0.00 | 8.92 | 2.00 | 0.00 | 5.54 | 0.02 | 0.00 |
| 8.94 | 2.00 | 0.00 | 5.53 | 0.02 | 0.00 | 8.96 | 2.00 | 0.00 | 5.52 | 0.02 | 0.00 |
| 8.98 | 2.00 | 0.00 | 5.51 | 0.02 | 0.00 | 9.00 | 2.00 | 0.00 | 5.50 | 0.02 | 0.00 |
| 9.02 | 2.00 | 0.00 | 5.49 | 0.02 | 0.00 | 9.04 | 2.00 | 0.00 | 5.48 | 0.02 | 0.00 |
| 9.06 | 2.00 | 0.00 | 5.47 | 0.02 | 0.00 | 9.08 | 2.00 | 0.00 | 5.46 | 0.02 | 0.00 |
| 9.10 | 2.00 | 0.00 | 5.45 | 0.02 | 0.00 | 9.12 | 2.00 | 0.00 | 5.44 | 0.02 | 0.00 |
| 9.14 | 2.00 | 0.00 | 5.43 | 0.02 | 0.00 | 9.16 | 2.00 | 0.00 | 5.42 | 0.02 | 0.00 |
| 9.18 | 2.00 | 0.00 | 5.41 | 0.02 | 0.00 | 9.20 | 2.00 | 0.00 | 5.40 | 0.02 | 0.00 |
| 9.22 | 2.00 | 0.00 | 5.39 | 0.02 | 0.00 | 9.24 | 2.00 | 0.00 | 5.38 | 0.02 | 0.00 |
| 9.26 | 2.00 | 0.00 | 5.37 | 0.02 | 0.00 | 9.28 | 2.00 | 0.00 | 5.36 | 0.02 | 0.00 |
| 9.30 | 2.00 | 0.00 | 5.35 | 0.02 | 0.00 | 9.32 | 2.00 | 0.00 | 5.34 | 0.02 | 0.00 |
| 9.34 | 2.00 | 0.00 | 5.33 | 0.02 | 0.00 | 9.36 | 2.00 | 0.00 | 5.32 | 0.02 | 0.00 |
| 9.38 | 2.00 | 0.00 | 5.31 | 0.02 | 0.00 | 9.40 | 2.00 | 0.00 | 5.30 | 0.02 | 0.00 |
| 9.42 | 2.00 | 0.00 | 5.29 | 0.02 | 0.00 | 9.44 | 2.00 | 0.00 | 5.28 | 0.02 | 0.00 |
| 9.46 | 2.00 | 0.00 | 5.27 | 0.02 | 0.00 | 9.48 | 2.00 | 0.00 | 5.26 | 0.02 | 0.00 |
| 9.50 | 2.00 | 0.00 | 5.25 | 0.02 | 0.00 | 9.52 | 2.00 | 0.00 | 5.24 | 0.02 | 0.00 |
| 9.54 | 2.00 | 0.00 | 5.23 | 0.02 | 0.00 | 9.56 | 2.00 | 0.00 | 5.22 | 0.02 | 0.00 |
| 9.58 | 2.00 | 0.00 | 5.21 | 0.02 | 0.00 | 9.60 | 2.00 | 0.00 | 5.20 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 9.62 | 2.00 | 0.00 | 5.19 | 0.02 | 0.00 | 9.64 | 2.00 | 0.00 | 5.18 | 0.02 | 0.00 |
| 9.66 | 2.00 | 0.00 | 5.17 | 0.02 | 0.00 | 9.68 | 2.00 | 0.00 | 5.16 | 0.02 | 0.00 |
| 9.70 | 2.00 | 0.00 | 5.15 | 0.02 | 0.00 | 9.72 | 2.00 | 0.00 | 5.14 | 0.02 | 0.00 |
| 9.74 | 2.00 | 0.00 | 5.13 | 0.02 | 0.00 | 9.76 | 2.00 | 0.00 | 5.12 | 0.02 | 0.00 |
| 9.78 | 2.00 | 0.00 | 5.11 | 0.02 | 0.00 | 9.80 | 2.00 | 0.00 | 5.10 | 0.02 | 0.00 |
| 9.82 | 2.00 | 0.00 | 5.09 | 0.02 | 0.00 | 9.84 | 2.00 | 0.00 | 5.08 | 0.02 | 0.00 |
| 9.86 | 2.00 | 0.00 | 5.07 | 0.02 | 0.00 | 9.88 | 2.00 | 0.00 | 5.06 | 0.02 | 0.00 |
| 9.90 | 2.00 | 0.00 | 5.05 | 0.02 | 0.00 | 9.92 | 2.00 | 0.00 | 5.04 | 0.02 | 0.00 |
| 9.94 | 2.00 | 0.00 | 5.03 | 0.02 | 0.00 | 9.96 | 2.00 | 0.00 | 5.02 | 0.02 | 0.00 |
| 9.98 | 2.00 | 0.00 | 5.01 | 0.02 | 0.00 | 10.00 | 2.00 | 0.00 | 5.00 | 0.02 | 0.00 |
| 10.02 | 2.00 | 0.00 | 4.99 | 0.02 | 0.00 | 10.04 | 0.93 | 0.07 | 4.98 | 0.02 | 0.01 |
| 10.06 | 0.95 | 0.05 | 4.97 | 0.02 | 0.00 | 10.08 | 2.00 | 0.00 | 4.96 | 0.02 | 0.00 |
| 10.10 | 2.00 | 0.00 | 4.95 | 0.02 | 0.00 | 10.12 | 2.00 | 0.00 | 4.94 | 0.02 | 0.00 |
| 10.14 | 2.00 | 0.00 | 4.93 | 0.02 | 0.00 | 10.16 | 2.00 | 0.00 | 4.92 | 0.02 | 0.00 |
| 10.18 | 2.00 | 0.00 | 4.91 | 0.02 | 0.00 | 10.20 | 2.00 | 0.00 | 4.90 | 0.02 | 0.00 |
| 10.22 | 2.00 | 0.00 | 4.89 | 0.02 | 0.00 | 10.24 | 2.00 | 0.00 | 4.88 | 0.02 | 0.00 |
| 10.26 | 2.00 | 0.00 | 4.87 | 0.02 | 0.00 | 10.28 | 2.00 | 0.00 | 4.86 | 0.02 | 0.00 |
| 10.30 | 2.00 | 0.00 | 4.85 | 0.02 | 0.00 | 10.32 | 2.00 | 0.00 | 4.84 | 0.02 | 0.00 |
| 10.34 | 2.00 | 0.00 | 4.83 | 0.02 | 0.00 | 10.36 | 2.00 | 0.00 | 4.82 | 0.02 | 0.00 |
| 10.38 | 0.89 | 0.11 | 4.81 | 0.02 | 0.01 | 10.40 | 0.93 | 0.07 | 4.80 | 0.02 | 0.01 |
| 10.42 | 0.99 | 0.01 | 4.79 | 0.02 | 0.00 | 10.44 | 1.05 | 0.00 | 4.78 | 0.02 | 0.00 |
| 10.46 | 1.12 | 0.00 | 4.77 | 0.02 | 0.00 | 10.48 | 1.20 | 0.00 | 4.76 | 0.02 | 0.00 |
| 10.50 | 1.26 | 0.00 | 4.75 | 0.02 | 0.00 | 10.52 | 1.23 | 0.00 | 4.74 | 0.02 | 0.00 |
| 10.54 | 1.18 | 0.00 | 4.73 | 0.02 | 0.00 | 10.56 | 1.14 | 0.00 | 4.72 | 0.02 | 0.00 |
| 10.58 | 1.10 | 0.00 | 4.71 | 0.02 | 0.00 | 10.60 | 1.04 | 0.00 | 4.70 | 0.02 | 0.00 |
| 10.62 | 0.98 | 0.02 | 4.69 | 0.02 | 0.00 | 10.64 | 0.95 | 0.05 | 4.68 | 0.02 | 0.00 |
| 10.66 | 0.93 | 0.07 | 4.67 | 0.02 | 0.01 | 10.68 | 0.92 | 0.08 | 4.66 | 0.02 | 0.01 |
| 10.70 | 0.90 | 0.10 | 4.65 | 0.02 | 0.01 | 10.72 | 0.90 | 0.10 | 4.64 | 0.02 | 0.01 |
| 10.74 | 0.93 | 0.07 | 4.63 | 0.02 | 0.01 | 10.76 | 0.99 | 0.01 | 4.62 | 0.02 | 0.00 |
| 10.78 | 1.02 | 0.00 | 4.61 | 0.02 | 0.00 | 10.80 | 1.02 | 0.00 | 4.60 | 0.02 | 0.00 |
| 10.82 | 1.00 | 0.00 | 4.59 | 0.02 | 0.00 | 10.84 | 1.02 | 0.00 | 4.58 | 0.02 | 0.00 |
| 10.86 | 1.04 | 0.00 | 4.57 | 0.02 | 0.00 | 10.88 | 1.04 | 0.00 | 4.56 | 0.02 | 0.00 |
| 10.90 | 1.03 | 0.00 | 4.55 | 0.02 | 0.00 | 10.92 | 1.03 | 0.00 | 4.54 | 0.02 | 0.00 |
| 10.94 | 1.03 | 0.00 | 4.53 | 0.02 | 0.00 | 10.96 | 1.03 | 0.00 | 4.52 | 0.02 | 0.00 |
| 10.98 | 1.01 | 0.00 | 4.51 | 0.02 | 0.00 | 11.00 | 0.98 | 0.02 | 4.50 | 0.02 | 0.00 |
| 11.02 | 0.96 | 0.04 | 4.49 | 0.02 | 0.00 | 11.04 | 0.96 | 0.04 | 4.48 | 0.02 | 0.00 |
| 11.06 | 0.99 | 0.01 | 4.47 | 0.02 | 0.00 | 11.08 | 1.01 | 0.00 | 4.46 | 0.02 | 0.00 |
| 11.10 | 1.01 | 0.00 | 4.45 | 0.02 | 0.00 | 11.12 | 1.01 | 0.00 | 4.44 | 0.02 | 0.00 |
| 11.14 | 1.03 | 0.00 | 4.43 | 0.02 | 0.00 | 11.16 | 1.09 | 0.00 | 4.42 | 0.02 | 0.00 |
| 11.18 | 1.14 | 0.00 | 4.41 | 0.02 | 0.00 | 11.20 | 1.16 | 0.00 | 4.40 | 0.02 | 0.00 |
| 11.22 | 1.11 | 0.00 | 4.39 | 0.02 | 0.00 | 11.24 | 1.04 | 0.00 | 4.38 | 0.02 | 0.00 |
| 11.26 | 0.99 | 0.01 | 4.37 | 0.02 | 0.00 | 11.28 | 0.96 | 0.04 | 4.36 | 0.02 | 0.00 |
| 11.30 | 0.93 | 0.07 | 4.35 | 0.02 | 0.01 | 11.32 | 0.91 | 0.09 | 4.34 | 0.02 | 0.01 |
| 11.34 | 0.90 | 0.10 | 4.33 | 0.02 | 0.01 | 11.36 | 0.78 | 0.22 | 4.32 | 0.02 | 0.02 |
| 11.38 | 0.80 | 0.20 | 4.31 | 0.02 | 0.02 | 11.40 | 0.94 | 0.06 | 4.30 | 0.02 | 0.01 |
| 11.42 | 0.98 | 0.02 | 4.29 | 0.02 | 0.00 | 11.44 | 1.04 | 0.00 | 4.28 | 0.02 | 0.00 |
| 11.46 | 1.16 | 0.00 | 4.27 | 0.02 | 0.00 | 11.48 | 1.29 | 0.00 | 4.26 | 0.02 | 0.00 |
| 11.50 | 2.00 | 0.00 | 4.25 | 0.02 | 0.00 | 11.52 | 2.00 | 0.00 | 4.24 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 11.54 | 2.00 | 0.00 | 4.23 | 0.02 | 0.00 | 11.56 | 2.00 | 0.00 | 4.22 | 0.02 | 0.00 |
| 11.58 | 2.00 | 0.00 | 4.21 | 0.02 | 0.00 | 11.60 | 2.00 | 0.00 | 4.20 | 0.02 | 0.00 |
| 11.62 | 1.16 | 0.00 | 4.19 | 0.02 | 0.00 | 11.64 | 2.00 | 0.00 | 4.18 | 0.02 | 0.00 |
| 11.66 | 2.00 | 0.00 | 4.17 | 0.02 | 0.00 | 11.68 | 2.00 | 0.00 | 4.16 | 0.02 | 0.00 |
| 11.70 | 2.00 | 0.00 | 4.15 | 0.02 | 0.00 | 11.72 | 2.00 | 0.00 | 4.14 | 0.02 | 0.00 |
| 11.74 | 2.00 | 0.00 | 4.13 | 0.02 | 0.00 | 11.76 | 2.00 | 0.00 | 4.12 | 0.02 | 0.00 |
| 11.78 | 2.00 | 0.00 | 4.11 | 0.02 | 0.00 | 11.80 | 1.09 | 0.00 | 4.10 | 0.02 | 0.00 |
| 11.82 | 1.12 | 0.00 | 4.09 | 0.02 | 0.00 | 11.84 | 1.19 | 0.00 | 4.08 | 0.02 | 0.00 |
| 11.86 | 1.24 | 0.00 | 4.07 | 0.02 | 0.00 | 11.88 | 1.19 | 0.00 | 4.06 | 0.02 | 0.00 |
| 11.90 | 1.10 | 0.00 | 4.05 | 0.02 | 0.00 | 11.92 | 1.05 | 0.00 | 4.04 | 0.02 | 0.00 |
| 11.94 | 1.05 | 0.00 | 4.03 | 0.02 | 0.00 | 11.96 | 1.05 | 0.00 | 4.02 | 0.02 | 0.00 |
| 11.98 | 1.07 | 0.00 | 4.01 | 0.02 | 0.00 | 12.00 | 1.06 | 0.00 | 4.00 | 0.02 | 0.00 |
| 12.02 | 1.04 | 0.00 | 3.99 | 0.02 | 0.00 | 12.04 | 1.03 | 0.00 | 3.98 | 0.02 | 0.00 |
| 12.06 | 1.06 | 0.00 | 3.97 | 0.02 | 0.00 | 12.08 | 1.11 | 0.00 | 3.96 | 0.02 | 0.00 |
| 12.10 | 1.15 | 0.00 | 3.95 | 0.02 | 0.00 | 12.12 | 1.19 | 0.00 | 3.94 | 0.02 | 0.00 |
| 12.14 | 1.22 | 0.00 | 3.93 | 0.02 | 0.00 | 12.16 | 1.23 | 0.00 | 3.92 | 0.02 | 0.00 |
| 12.18 | 1.21 | 0.00 | 3.91 | 0.02 | 0.00 | 12.20 | 1.21 | 0.00 | 3.90 | 0.02 | 0.00 |
| 12.22 | 1.26 | 0.00 | 3.89 | 0.02 | 0.00 | 12.24 | 1.29 | 0.00 | 3.88 | 0.02 | 0.00 |
| 12.26 | 1.29 | 0.00 | 3.87 | 0.02 | 0.00 | 12.28 | 1.24 | 0.00 | 3.86 | 0.02 | 0.00 |
| 12.30 | 1.21 | 0.00 | 3.85 | 0.02 | 0.00 | 12.32 | 1.20 | 0.00 | 3.84 | 0.02 | 0.00 |
| 12.34 | 1.20 | 0.00 | 3.83 | 0.02 | 0.00 | 12.36 | 1.21 | 0.00 | 3.82 | 0.02 | 0.00 |
| 12.38 | 1.23 | 0.00 | 3.81 | 0.02 | 0.00 | 12.40 | 1.26 | 0.00 | 3.80 | 0.02 | 0.00 |
| 12.42 | 1.30 | 0.00 | 3.79 | 0.02 | 0.00 | 12.44 | 1.30 | 0.00 | 3.78 | 0.02 | 0.00 |
| 12.46 | 1.27 | 0.00 | 3.77 | 0.02 | 0.00 | 12.48 | 1.29 | 0.00 | 3.76 | 0.02 | 0.00 |
| 12.50 | 1.33 | 0.00 | 3.75 | 0.02 | 0.00 | 12.52 | 1.32 | 0.00 | 3.74 | 0.02 | 0.00 |
| 12.54 | 1.28 | 0.00 | 3.73 | 0.02 | 0.00 | 12.56 | 1.26 | 0.00 | 3.72 | 0.02 | 0.00 |
| 12.58 | 2.00 | 0.00 | 3.71 | 0.02 | 0.00 | 12.60 | 1.23 | 0.00 | 3.70 | 0.02 | 0.00 |
| 12.62 | 1.18 | 0.00 | 3.69 | 0.02 | 0.00 | 12.64 | 1.12 | 0.00 | 3.68 | 0.02 | 0.00 |
| 12.66 | 1.08 | 0.00 | 3.67 | 0.02 | 0.00 | 12.68 | 1.06 | 0.00 | 3.66 | 0.02 | 0.00 |
| 12.70 | 1.10 | 0.00 | 3.65 | 0.02 | 0.00 | 12.72 | 1.16 | 0.00 | 3.64 | 0.02 | 0.00 |
| 12.74 | 1.22 | 0.00 | 3.63 | 0.02 | 0.00 | 12.76 | 1.30 | 0.00 | 3.62 | 0.02 | 0.00 |
| 12.78 | 1.43 | 0.00 | 3.61 | 0.02 | 0.00 | 12.80 | 1.51 | 0.00 | 3.60 | 0.02 | 0.00 |
| 12.82 | 1.52 | 0.00 | 3.59 | 0.02 | 0.00 | 12.84 | 2.00 | 0.00 | 3.58 | 0.02 | 0.00 |
| 12.86 | 2.00 | 0.00 | 3.57 | 0.02 | 0.00 | 12.88 | 1.19 | 0.00 | 3.56 | 0.02 | 0.00 |
| 12.90 | 1.08 | 0.00 | 3.55 | 0.02 | 0.00 | 12.92 | 1.04 | 0.00 | 3.54 | 0.02 | 0.00 |
| 12.94 | 1.04 | 0.00 | 3.53 | 0.02 | 0.00 | 12.96 | 1.04 | 0.00 | 3.52 | 0.02 | 0.00 |
| 12.98 | 1.06 | 0.00 | 3.51 | 0.02 | 0.00 | 13.00 | 1.10 | 0.00 | 3.50 | 0.02 | 0.00 |
| 13.02 | 1.14 | 0.00 | 3.49 | 0.02 | 0.00 | 13.04 | 1.20 | 0.00 | 3.48 | 0.02 | 0.00 |
| 13.06 | 1.29 | 0.00 | 3.47 | 0.02 | 0.00 | 13.08 | 1.38 | 0.00 | 3.46 | 0.02 | 0.00 |
| 13.10 | 1.43 | 0.00 | 3.45 | 0.02 | 0.00 | 13.12 | 1.41 | 0.00 | 3.44 | 0.02 | 0.00 |
| 13.14 | 2.00 | 0.00 | 3.43 | 0.02 | 0.00 | 13.16 | 1.27 | 0.00 | 3.42 | 0.02 | 0.00 |
| 13.18 | 1.18 | 0.00 | 3.41 | 0.02 | 0.00 | 13.20 | 1.10 | 0.00 | 3.40 | 0.02 | 0.00 |
| 13.22 | 1.06 | 0.00 | 3.39 | 0.02 | 0.00 | 13.24 | 1.04 | 0.00 | 3.38 | 0.02 | 0.00 |
| 13.26 | 1.06 | 0.00 | 3.37 | 0.02 | 0.00 | 13.28 | 1.10 | 0.00 | 3.36 | 0.02 | 0.00 |
| 13.30 | 1.11 | 0.00 | 3.35 | 0.02 | 0.00 | 13.32 | 1.13 | 0.00 | 3.34 | 0.02 | 0.00 |
| 13.34 | 1.14 | 0.00 | 3.33 | 0.02 | 0.00 | 13.36 | 1.16 | 0.00 | 3.32 | 0.02 | 0.00 |
| 13.38 | 1.21 | 0.00 | 3.31 | 0.02 | 0.00 | 13.40 | 1.29 | 0.00 | 3.30 | 0.02 | 0.00 |
| 13.42 | 1.35 | 0.00 | 3.29 | 0.02 | 0.00 | 13.44 | 1.38 | 0.00 | 3.28 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 13.46 | 2.00 | 0.00 | 3.27 | 0.02 | 0.00 | 13.48 | 2.00 | 0.00 | 3.26 | 0.02 | 0.00 |
| 13.50 | 2.00 | 0.00 | 3.25 | 0.02 | 0.00 | 13.52 | 2.00 | 0.00 | 3.24 | 0.02 | 0.00 |
| 13.54 | 1.27 | 0.00 | 3.23 | 0.02 | 0.00 | 13.56 | 1.26 | 0.00 | 3.22 | 0.02 | 0.00 |
| 13.58 | 1.29 | 0.00 | 3.21 | 0.02 | 0.00 | 13.60 | 1.33 | 0.00 | 3.20 | 0.02 | 0.00 |
| 13.62 | 1.36 | 0.00 | 3.19 | 0.02 | 0.00 | 13.64 | 2.00 | 0.00 | 3.18 | 0.02 | 0.00 |
| 13.66 | 2.00 | 0.00 | 3.17 | 0.02 | 0.00 | 13.68 | 2.00 | 0.00 | 3.16 | 0.02 | 0.00 |
| 13.70 | 1.40 | 0.00 | 3.15 | 0.02 | 0.00 | 13.72 | 2.00 | 0.00 | 3.14 | 0.02 | 0.00 |
| 13.74 | 2.00 | 0.00 | 3.13 | 0.02 | 0.00 | 13.76 | 2.00 | 0.00 | 3.12 | 0.02 | 0.00 |
| 13.78 | 2.00 | 0.00 | 3.11 | 0.02 | 0.00 | 13.80 | 2.00 | 0.00 | 3.10 | 0.02 | 0.00 |
| 13.82 | 2.00 | 0.00 | 3.09 | 0.02 | 0.00 | 13.84 | 2.00 | 0.00 | 3.08 | 0.02 | 0.00 |
| 13.86 | 1.22 | 0.00 | 3.07 | 0.02 | 0.00 | 13.88 | 1.24 | 0.00 | 3.06 | 0.02 | 0.00 |
| 13.90 | 1.22 | 0.00 | 3.05 | 0.02 | 0.00 | 13.92 | 1.26 | 0.00 | 3.04 | 0.02 | 0.00 |
| 13.94 | 1.28 | 0.00 | 3.03 | 0.02 | 0.00 | 13.96 | 1.30 | 0.00 | 3.02 | 0.02 | 0.00 |
| 13.98 | 1.29 | 0.00 | 3.01 | 0.02 | 0.00 | 14.00 | 2.00 | 0.00 | 3.00 | 0.02 | 0.00 |
| 14.02 | 2.00 | 0.00 | 2.99 | 0.02 | 0.00 | 14.04 | 2.00 | 0.00 | 2.98 | 0.02 | 0.00 |
| 14.06 | 2.00 | 0.00 | 2.97 | 0.02 | 0.00 | 14.08 | 2.00 | 0.00 | 2.96 | 0.02 | 0.00 |
| 14.10 | 2.00 | 0.00 | 2.95 | 0.02 | 0.00 | 14.12 | 2.00 | 0.00 | 2.94 | 0.02 | 0.00 |
| 14.14 | 2.00 | 0.00 | 2.93 | 0.02 | 0.00 | 14.16 | 2.00 | 0.00 | 2.92 | 0.02 | 0.00 |
| 14.18 | 2.00 | 0.00 | 2.91 | 0.02 | 0.00 | 14.20 | 2.00 | 0.00 | 2.90 | 0.02 | 0.00 |
| 14.22 | 2.00 | 0.00 | 2.89 | 0.02 | 0.00 | 14.24 | 2.00 | 0.00 | 2.88 | 0.02 | 0.00 |
| 14.26 | 2.00 | 0.00 | 2.87 | 0.02 | 0.00 | 14.28 | 2.00 | 0.00 | 2.86 | 0.02 | 0.00 |
| 14.30 | 2.00 | 0.00 | 2.85 | 0.02 | 0.00 | 14.32 | 2.00 | 0.00 | 2.84 | 0.02 | 0.00 |
| 14.34 | 2.00 | 0.00 | 2.83 | 0.02 | 0.00 | 14.36 | 2.00 | 0.00 | 2.82 | 0.02 | 0.00 |
| 14.38 | 2.00 | 0.00 | 2.81 | 0.02 | 0.00 | 14.40 | 2.00 | 0.00 | 2.80 | 0.02 | 0.00 |
| 14.42 | 2.00 | 0.00 | 2.79 | 0.02 | 0.00 | 14.44 | 2.00 | 0.00 | 2.78 | 0.02 | 0.00 |
| 14.46 | 2.00 | 0.00 | 2.77 | 0.02 | 0.00 | 14.48 | 2.00 | 0.00 | 2.76 | 0.02 | 0.00 |
| 14.50 | 2.00 | 0.00 | 2.75 | 0.02 | 0.00 | 14.52 | 2.00 | 0.00 | 2.74 | 0.02 | 0.00 |
| 14.54 | 2.00 | 0.00 | 2.73 | 0.02 | 0.00 | 14.56 | 2.00 | 0.00 | 2.72 | 0.02 | 0.00 |
| 14.58 | 2.00 | 0.00 | 2.71 | 0.02 | 0.00 | 14.60 | 2.00 | 0.00 | 2.70 | 0.02 | 0.00 |
| 14.62 | 2.00 | 0.00 | 2.69 | 0.02 | 0.00 | 14.64 | 2.00 | 0.00 | 2.68 | 0.02 | 0.00 |
| 14.66 | 2.00 | 0.00 | 2.67 | 0.02 | 0.00 | 14.68 | 2.00 | 0.00 | 2.66 | 0.02 | 0.00 |
| 14.70 | 2.00 | 0.00 | 2.65 | 0.02 | 0.00 | 14.72 | 2.00 | 0.00 | 2.64 | 0.02 | 0.00 |
| 14.74 | 2.00 | 0.00 | 2.63 | 0.02 | 0.00 | 14.76 | 2.00 | 0.00 | 2.62 | 0.02 | 0.00 |
| 14.78 | 2.00 | 0.00 | 2.61 | 0.02 | 0.00 | 14.80 | 2.00 | 0.00 | 2.60 | 0.02 | 0.00 |
| 14.82 | 2.00 | 0.00 | 2.59 | 0.02 | 0.00 | 14.84 | 2.00 | 0.00 | 2.58 | 0.02 | 0.00 |
| 14.86 | 2.00 | 0.00 | 2.57 | 0.02 | 0.00 | 14.88 | 2.00 | 0.00 | 2.56 | 0.02 | 0.00 |
| 14.90 | 2.00 | 0.00 | 2.55 | 0.02 | 0.00 | 14.92 | 2.00 | 0.00 | 2.54 | 0.02 | 0.00 |
| 14.94 | 2.00 | 0.00 | 2.53 | 0.02 | 0.00 | 14.96 | 2.00 | 0.00 | 2.52 | 0.02 | 0.00 |
| 14.98 | 2.00 | 0.00 | 2.51 | 0.02 | 0.00 | 15.00 | 1.01 | 0.00 | 2.50 | 0.02 | 0.00 |
| 15.02 | 0.98 | 0.02 | 2.49 | 0.02 | 0.00 | 15.04 | 0.99 | 0.01 | 2.48 | 0.02 | 0.00 |
| 15.06 | 1.01 | 0.00 | 2.47 | 0.02 | 0.00 | 15.08 | 1.04 | 0.00 | 2.46 | 0.02 | 0.00 |
| 15.10 | 1.04 | 0.00 | 2.45 | 0.02 | 0.00 | 15.12 | 1.04 | 0.00 | 2.44 | 0.02 | 0.00 |
| 15.14 | 1.04 | 0.00 | 2.43 | 0.02 | 0.00 | 15.16 | 2.00 | 0.00 | 2.42 | 0.02 | 0.00 |
| 15.18 | 2.00 | 0.00 | 2.41 | 0.02 | 0.00 | 15.20 | 2.00 | 0.00 | 2.40 | 0.02 | 0.00 |
| 15.22 | 2.00 | 0.00 | 2.39 | 0.02 | 0.00 | 15.24 | 2.00 | 0.00 | 2.38 | 0.02 | 0.00 |
| 15.26 | 2.00 | 0.00 | 2.37 | 0.02 | 0.00 | 15.28 | 2.00 | 0.00 | 2.36 | 0.02 | 0.00 |
| 15.30 | 2.00 | 0.00 | 2.35 | 0.02 | 0.00 | 15.32 | 2.00 | 0.00 | 2.34 | 0.02 | 0.00 |
| 15.34 | 2.00 | 0.00 | 2.33 | 0.02 | 0.00 | 15.36 | 2.00 | 0.00 | 2.32 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 15.38 | 2.00 | 0.00 | 2.31 | 0.02 | 0.00 | 15.40 | 2.00 | 0.00 | 2.30 | 0.02 | 0.00 |
| 15.42 | 2.00 | 0.00 | 2.29 | 0.02 | 0.00 | 15.44 | 2.00 | 0.00 | 2.28 | 0.02 | 0.00 |
| 15.46 | 2.00 | 0.00 | 2.27 | 0.02 | 0.00 | 15.48 | 2.00 | 0.00 | 2.26 | 0.02 | 0.00 |
| 15.50 | 2.00 | 0.00 | 2.25 | 0.02 | 0.00 | 15.52 | 2.00 | 0.00 | 2.24 | 0.02 | 0.00 |
| 15.54 | 2.00 | 0.00 | 2.23 | 0.02 | 0.00 | 15.56 | 2.00 | 0.00 | 2.22 | 0.02 | 0.00 |
| 15.58 | 2.00 | 0.00 | 2.21 | 0.02 | 0.00 | 15.60 | 2.00 | 0.00 | 2.20 | 0.02 | 0.00 |
| 15.62 | 2.00 | 0.00 | 2.19 | 0.02 | 0.00 | 15.64 | 2.00 | 0.00 | 2.18 | 0.02 | 0.00 |
| 15.66 | 2.00 | 0.00 | 2.17 | 0.02 | 0.00 | 15.68 | 2.00 | 0.00 | 2.16 | 0.02 | 0.00 |
| 15.70 | 2.00 | 0.00 | 2.15 | 0.02 | 0.00 | 15.72 | 2.00 | 0.00 | 2.14 | 0.02 | 0.00 |
| 15.74 | 2.00 | 0.00 | 2.13 | 0.02 | 0.00 | 15.76 | 2.00 | 0.00 | 2.12 | 0.02 | 0.00 |
| 15.78 | 2.00 | 0.00 | 2.11 | 0.02 | 0.00 | 15.80 | 2.00 | 0.00 | 2.10 | 0.02 | 0.00 |
| 15.82 | 2.00 | 0.00 | 2.09 | 0.02 | 0.00 | 15.84 | 2.00 | 0.00 | 2.08 | 0.02 | 0.00 |
| 15.86 | 2.00 | 0.00 | 2.07 | 0.02 | 0.00 | 15.88 | 2.00 | 0.00 | 2.06 | 0.02 | 0.00 |
| 15.90 | 2.00 | 0.00 | 2.05 | 0.02 | 0.00 | 15.92 | 2.00 | 0.00 | 2.04 | 0.02 | 0.00 |
| 15.94 | 2.00 | 0.00 | 2.03 | 0.02 | 0.00 | 15.96 | 2.00 | 0.00 | 2.02 | 0.02 | 0.00 |
| 15.98 | 2.00 | 0.00 | 2.01 | 0.02 | 0.00 | 16.00 | 2.00 | 0.00 | 2.00 | 0.02 | 0.00 |
| 16.02 | 2.00 | 0.00 | 1.99 | 0.02 | 0.00 | 16.04 | 2.00 | 0.00 | 1.98 | 0.02 | 0.00 |
| 16.06 | 2.00 | 0.00 | 1.97 | 0.02 | 0.00 | 16.08 | 2.00 | 0.00 | 1.96 | 0.02 | 0.00 |
| 16.10 | 2.00 | 0.00 | 1.95 | 0.02 | 0.00 | 16.12 | 2.00 | 0.00 | 1.94 | 0.02 | 0.00 |
| 16.14 | 2.00 | 0.00 | 1.93 | 0.02 | 0.00 | 16.16 | 2.00 | 0.00 | 1.92 | 0.02 | 0.00 |
| 16.18 | 2.00 | 0.00 | 1.91 | 0.02 | 0.00 | 16.20 | 2.00 | 0.00 | 1.90 | 0.02 | 0.00 |
| 16.22 | 2.00 | 0.00 | 1.89 | 0.02 | 0.00 | 16.24 | 2.00 | 0.00 | 1.88 | 0.02 | 0.00 |
| 16.26 | 2.00 | 0.00 | 1.87 | 0.02 | 0.00 | 16.28 | 2.00 | 0.00 | 1.86 | 0.02 | 0.00 |
| 16.30 | 2.00 | 0.00 | 1.85 | 0.02 | 0.00 | 16.32 | 2.00 | 0.00 | 1.84 | 0.02 | 0.00 |
| 16.34 | 2.00 | 0.00 | 1.83 | 0.02 | 0.00 | 16.36 | 2.00 | 0.00 | 1.82 | 0.02 | 0.00 |
| 16.38 | 2.00 | 0.00 | 1.81 | 0.02 | 0.00 | 16.40 | 2.00 | 0.00 | 1.80 | 0.02 | 0.00 |
| 16.42 | 2.00 | 0.00 | 1.79 | 0.02 | 0.00 | 16.44 | 2.00 | 0.00 | 1.78 | 0.02 | 0.00 |
| 16.46 | 2.00 | 0.00 | 1.77 | 0.02 | 0.00 | 16.48 | 2.00 | 0.00 | 1.76 | 0.02 | 0.00 |
| 16.50 | 2.00 | 0.00 | 1.75 | 0.02 | 0.00 | 16.52 | 2.00 | 0.00 | 1.74 | 0.02 | 0.00 |
| 16.54 | 2.00 | 0.00 | 1.73 | 0.02 | 0.00 | 16.56 | 2.00 | 0.00 | 1.72 | 0.02 | 0.00 |
| 16.58 | 2.00 | 0.00 | 1.71 | 0.02 | 0.00 | 16.60 | 2.00 | 0.00 | 1.70 | 0.02 | 0.00 |
| 16.62 | 2.00 | 0.00 | 1.69 | 0.02 | 0.00 | 16.64 | 2.00 | 0.00 | 1.68 | 0.02 | 0.00 |
| 16.66 | 2.00 | 0.00 | 1.67 | 0.02 | 0.00 | 16.68 | 2.00 | 0.00 | 1.66 | 0.02 | 0.00 |
| 16.70 | 2.00 | 0.00 | 1.65 | 0.02 | 0.00 | 16.72 | 2.00 | 0.00 | 1.64 | 0.02 | 0.00 |
| 16.74 | 2.00 | 0.00 | 1.63 | 0.02 | 0.00 | 16.76 | 2.00 | 0.00 | 1.62 | 0.02 | 0.00 |
| 16.78 | 2.00 | 0.00 | 1.61 | 0.02 | 0.00 | 16.80 | 2.00 | 0.00 | 1.60 | 0.02 | 0.00 |
| 16.82 | 2.00 | 0.00 | 1.59 | 0.02 | 0.00 | 16.84 | 2.00 | 0.00 | 1.58 | 0.02 | 0.00 |
| 16.86 | 2.00 | 0.00 | 1.57 | 0.02 | 0.00 | 16.88 | 2.00 | 0.00 | 1.56 | 0.02 | 0.00 |
| 16.90 | 2.00 | 0.00 | 1.55 | 0.02 | 0.00 | 16.92 | 1.13 | 0.00 | 1.54 | 0.02 | 0.00 |
| 16.94 | 1.12 | 0.00 | 1.53 | 0.02 | 0.00 | 16.96 | 1.13 | 0.00 | 1.52 | 0.02 | 0.00 |
| 16.98 | 1.12 | 0.00 | 1.51 | 0.02 | 0.00 | 17.00 | 1.11 | 0.00 | 1.50 | 0.02 | 0.00 |
| 17.02 | 1.11 | 0.00 | 1.49 | 0.02 | 0.00 | 17.04 | 1.13 | 0.00 | 1.48 | 0.02 | 0.00 |
| 17.06 | 1.18 | 0.00 | 1.47 | 0.02 | 0.00 | 17.08 | 1.26 | 0.00 | 1.46 | 0.02 | 0.00 |
| 17.10 | 2.00 | 0.00 | 1.45 | 0.02 | 0.00 | 17.12 | 2.00 | 0.00 | 1.44 | 0.02 | 0.00 |
| 17.14 | 2.00 | 0.00 | 1.43 | 0.02 | 0.00 | 17.16 | 2.00 | 0.00 | 1.42 | 0.02 | 0.00 |
| 17.18 | 2.00 | 0.00 | 1.41 | 0.02 | 0.00 | 17.20 | 2.00 | 0.00 | 1.40 | 0.02 | 0.00 |
| 17.22 | 2.00 | 0.00 | 1.39 | 0.02 | 0.00 | 17.24 | 2.00 | 0.00 | 1.38 | 0.02 | 0.00 |
| 17.26 | 2.00 | 0.00 | 1.37 | 0.02 | 0.00 | 17.28 | 2.00 | 0.00 | 1.36 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 17.30 | 2.00 | 0.00 | 1.35 | 0.02 | 0.00 | 17.32 | 2.00 | 0.00 | 1.34 | 0.02 | 0.00 |
| 17.34 | 2.00 | 0.00 | 1.33 | 0.02 | 0.00 | 17.36 | 2.00 | 0.00 | 1.32 | 0.02 | 0.00 |
| 17.38 | 2.00 | 0.00 | 1.31 | 0.02 | 0.00 | 17.40 | 2.00 | 0.00 | 1.30 | 0.02 | 0.00 |
| 17.42 | 2.00 | 0.00 | 1.29 | 0.02 | 0.00 | 17.44 | 2.00 | 0.00 | 1.28 | 0.02 | 0.00 |
| 17.46 | 2.00 | 0.00 | 1.27 | 0.02 | 0.00 | 17.48 | 2.00 | 0.00 | 1.26 | 0.02 | 0.00 |
| 17.50 | 2.00 | 0.00 | 1.25 | 0.02 | 0.00 | 17.52 | 2.00 | 0.00 | 1.24 | 0.02 | 0.00 |
| 17.54 | 2.00 | 0.00 | 1.23 | 0.02 | 0.00 | 17.56 | 2.00 | 0.00 | 1.22 | 0.02 | 0.00 |
| 17.58 | 2.00 | 0.00 | 1.21 | 0.02 | 0.00 | 17.60 | 2.00 | 0.00 | 1.20 | 0.02 | 0.00 |
| 17.62 | 2.00 | 0.00 | 1.19 | 0.02 | 0.00 | 17.64 | 2.00 | 0.00 | 1.18 | 0.02 | 0.00 |
| 17.66 | 2.00 | 0.00 | 1.17 | 0.02 | 0.00 | 17.68 | 2.00 | 0.00 | 1.16 | 0.02 | 0.00 |
| 17.70 | 2.00 | 0.00 | 1.15 | 0.02 | 0.00 | 17.72 | 2.00 | 0.00 | 1.14 | 0.02 | 0.00 |
| 17.74 | 2.00 | 0.00 | 1.13 | 0.02 | 0.00 | 17.76 | 2.00 | 0.00 | 1.12 | 0.02 | 0.00 |
| 17.78 | 2.00 | 0.00 | 1.11 | 0.02 | 0.00 | 17.80 | 2.00 | 0.00 | 1.10 | 0.02 | 0.00 |
| 17.82 | 2.00 | 0.00 | 1.09 | 0.02 | 0.00 | 17.84 | 2.00 | 0.00 | 1.08 | 0.02 | 0.00 |
| 17.86 | 2.00 | 0.00 | 1.07 | 0.02 | 0.00 | 17.88 | 2.00 | 0.00 | 1.06 | 0.02 | 0.00 |
| 17.90 | 2.00 | 0.00 | 1.05 | 0.02 | 0.00 | 17.92 | 2.00 | 0.00 | 1.04 | 0.02 | 0.00 |
| 17.94 | 2.00 | 0.00 | 1.03 | 0.02 | 0.00 | 17.96 | 2.00 | 0.00 | 1.02 | 0.02 | 0.00 |
| 17.98 | 2.00 | 0.00 | 1.01 | 0.02 | 0.00 | 18.00 | 2.00 | 0.00 | 1.00 | 0.02 | 0.00 |
| 18.02 | 2.00 | 0.00 | 0.99 | 0.02 | 0.00 | 18.04 | 2.00 | 0.00 | 0.98 | 0.02 | 0.00 |
| 18.06 | 2.00 | 0.00 | 0.97 | 0.02 | 0.00 | 18.08 | 2.00 | 0.00 | 0.96 | 0.02 | 0.00 |
| 18.10 | 2.00 | 0.00 | 0.95 | 0.02 | 0.00 | 18.12 | 2.00 | 0.00 | 0.94 | 0.02 | 0.00 |
| 18.14 | 2.00 | 0.00 | 0.93 | 0.02 | 0.00 | 18.16 | 2.00 | 0.00 | 0.92 | 0.02 | 0.00 |
| 18.18 | 2.00 | 0.00 | 0.91 | 0.02 | 0.00 | 18.20 | 2.00 | 0.00 | 0.90 | 0.02 | 0.00 |
| 18.22 | 2.00 | 0.00 | 0.89 | 0.02 | 0.00 | 18.24 | 2.00 | 0.00 | 0.88 | 0.02 | 0.00 |
| 18.26 | 2.00 | 0.00 | 0.87 | 0.02 | 0.00 | 18.28 | 2.00 | 0.00 | 0.86 | 0.02 | 0.00 |
| 18.30 | 2.00 | 0.00 | 0.85 | 0.02 | 0.00 | 18.32 | 2.00 | 0.00 | 0.84 | 0.02 | 0.00 |
| 18.34 | 2.00 | 0.00 | 0.83 | 0.02 | 0.00 | 18.36 | 2.00 | 0.00 | 0.82 | 0.02 | 0.00 |
| 18.38 | 2.00 | 0.00 | 0.81 | 0.02 | 0.00 | 18.40 | 2.00 | 0.00 | 0.80 | 0.02 | 0.00 |
| 18.42 | 2.00 | 0.00 | 0.79 | 0.02 | 0.00 | 18.44 | 2.00 | 0.00 | 0.78 | 0.02 | 0.00 |
| 18.46 | 2.00 | 0.00 | 0.77 | 0.02 | 0.00 | 18.48 | 2.00 | 0.00 | 0.76 | 0.02 | 0.00 |
| 18.50 | 2.00 | 0.00 | 0.75 | 0.02 | 0.00 | 18.52 | 2.00 | 0.00 | 0.74 | 0.02 | 0.00 |
| 18.54 | 2.00 | 0.00 | 0.73 | 0.02 | 0.00 | 18.56 | 2.00 | 0.00 | 0.72 | 0.02 | 0.00 |
| 18.58 | 2.00 | 0.00 | 0.71 | 0.02 | 0.00 | 18.60 | 2.00 | 0.00 | 0.70 | 0.02 | 0.00 |
| 18.62 | 2.00 | 0.00 | 0.69 | 0.02 | 0.00 | 18.64 | 2.00 | 0.00 | 0.68 | 0.02 | 0.00 |
| 18.66 | 2.00 | 0.00 | 0.67 | 0.02 | 0.00 | 18.68 | 2.00 | 0.00 | 0.66 | 0.02 | 0.00 |
| 18.70 | 2.00 | 0.00 | 0.65 | 0.02 | 0.00 | 18.72 | 2.00 | 0.00 | 0.64 | 0.02 | 0.00 |
| 18.74 | 2.00 | 0.00 | 0.63 | 0.02 | 0.00 | 18.76 | 2.00 | 0.00 | 0.62 | 0.02 | 0.00 |
| 18.78 | 2.00 | 0.00 | 0.61 | 0.02 | 0.00 | 18.80 | 2.00 | 0.00 | 0.60 | 0.02 | 0.00 |
| 18.82 | 2.00 | 0.00 | 0.59 | 0.02 | 0.00 | 18.84 | 2.00 | 0.00 | 0.58 | 0.02 | 0.00 |
| 18.86 | 2.00 | 0.00 | 0.57 | 0.02 | 0.00 | 18.88 | 2.00 | 0.00 | 0.56 | 0.02 | 0.00 |
| 18.90 | 2.00 | 0.00 | 0.55 | 0.02 | 0.00 | 18.92 | 2.00 | 0.00 | 0.54 | 0.02 | 0.00 |
| 18.94 | 2.00 | 0.00 | 0.53 | 0.02 | 0.00 | 18.96 | 2.00 | 0.00 | 0.52 | 0.02 | 0.00 |
| 18.98 | 2.00 | 0.00 | 0.51 | 0.02 | 0.00 | 19.00 | 2.00 | 0.00 | 0.50 | 0.02 | 0.00 |
| 19.02 | 2.00 | 0.00 | 0.49 | 0.02 | 0.00 | 19.04 | 2.00 | 0.00 | 0.48 | 0.02 | 0.00 |
| 19.06 | 2.00 | 0.00 | 0.47 | 0.02 | 0.00 | 19.08 | 2.00 | 0.00 | 0.46 | 0.02 | 0.00 |
| 19.10 | 2.00 | 0.00 | 0.45 | 0.02 | 0.00 | 19.12 | 2.00 | 0.00 | 0.44 | 0.02 | 0.00 |
| 19.14 | 2.00 | 0.00 | 0.43 | 0.02 | 0.00 | 19.16 | 2.00 | 0.00 | 0.42 | 0.02 | 0.00 |
| 19.18 | 2.00 | 0.00 | 0.41 | 0.02 | 0.00 | 19.20 | 2.00 | 0.00 | 0.40 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 19.22 | 2.00 | 0.00 | 0.39 | 0.02 | 0.00 | 19.24 | 2.00 | 0.00 | 0.38 | 0.02 | 0.00 |
| 19.26 | 2.00 | 0.00 | 0.37 | 0.02 | 0.00 | 19.28 | 2.00 | 0.00 | 0.36 | 0.02 | 0.00 |
| 19.30 | 2.00 | 0.00 | 0.35 | 0.02 | 0.00 | 19.32 | 2.00 | 0.00 | 0.34 | 0.02 | 0.00 |
| 19.34 | 2.00 | 0.00 | 0.33 | 0.02 | 0.00 | 19.36 | 2.00 | 0.00 | 0.32 | 0.02 | 0.00 |
| 19.38 | 2.00 | 0.00 | 0.31 | 0.02 | 0.00 | 19.40 | 2.00 | 0.00 | 0.30 | 0.02 | 0.00 |
| 19.42 | 2.00 | 0.00 | 0.29 | 0.02 | 0.00 | 19.44 | 2.00 | 0.00 | 0.28 | 0.02 | 0.00 |
| 19.46 | 2.00 | 0.00 | 0.27 | 0.02 | 0.00 | 19.48 | 2.00 | 0.00 | 0.26 | 0.02 | 0.00 |
| 19.50 | 2.00 | 0.00 | 0.25 | 0.02 | 0.00 | 19.52 | 2.00 | 0.00 | 0.24 | 0.02 | 0.00 |
| 19.54 | 2.00 | 0.00 | 0.23 | 0.02 | 0.00 | 19.56 | 2.00 | 0.00 | 0.22 | 0.02 | 0.00 |
| 19.58 | 2.00 | 0.00 | 0.21 | 0.02 | 0.00 | 19.60 | 2.00 | 0.00 | 0.20 | 0.02 | 0.00 |
| 19.62 | 2.00 | 0.00 | 0.19 | 0.02 | 0.00 | 19.64 | 2.00 | 0.00 | 0.18 | 0.02 | 0.00 |
| 19.66 | 2.00 | 0.00 | 0.17 | 0.02 | 0.00 | 19.68 | 2.00 | 0.00 | 0.16 | 0.02 | 0.00 |
| 19.70 | 2.00 | 0.00 | 0.15 | 0.02 | 0.00 | 19.72 | 2.00 | 0.00 | 0.14 | 0.02 | 0.00 |
| 19.74 | 2.00 | 0.00 | 0.13 | 0.02 | 0.00 | 19.76 | 2.00 | 0.00 | 0.12 | 0.02 | 0.00 |
| 19.78 | 2.00 | 0.00 | 0.11 | 0.02 | 0.00 | 19.80 | 2.00 | 0.00 | 0.10 | 0.02 | 0.00 |
| 19.82 | 2.00 | 0.00 | 0.09 | 0.02 | 0.00 | 19.84 | 2.00 | 0.00 | 0.08 | 0.02 | 0.00 |
| 19.86 | 2.00 | 0.00 | 0.07 | 0.02 | 0.00 | 19.88 | 2.00 | 0.00 | 0.06 | 0.02 | 0.00 |

Overall liquefaction potential: 0.16

LPI = 0.00 - Liquefaction risk very low

LPI between 0.00 and 5.00 - Liquefaction risk low

LPI between 5.00 and 15.00 - Liquefaction risk high

LPI > 15.00 - Liquefaction risk very high

Abbreviations

FS: Calculated factor of safety for test point

F_L: 1 - FSw_z: Function value of the extend of soil liquefaction according to depthd_z: Layer thickness (m)

LPI: Liquefaction potential index value for test point

LIQUEFACTION ANALYSIS REPORT

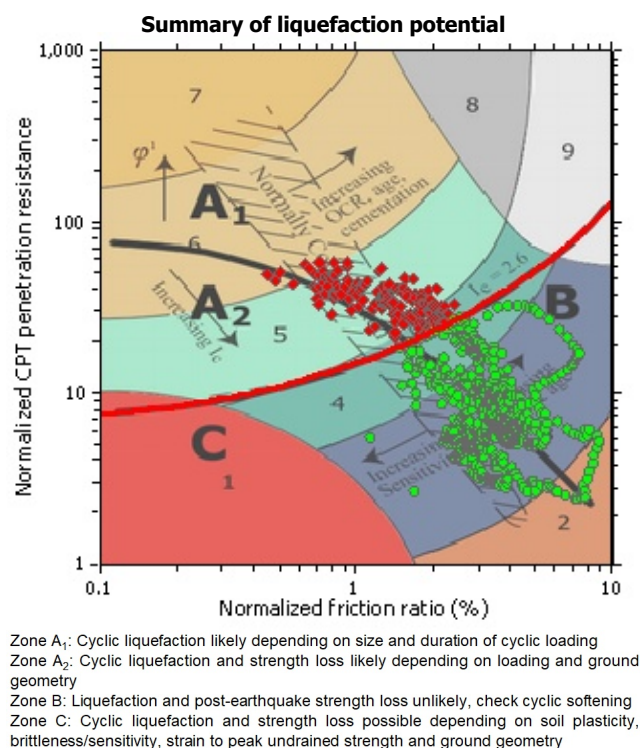
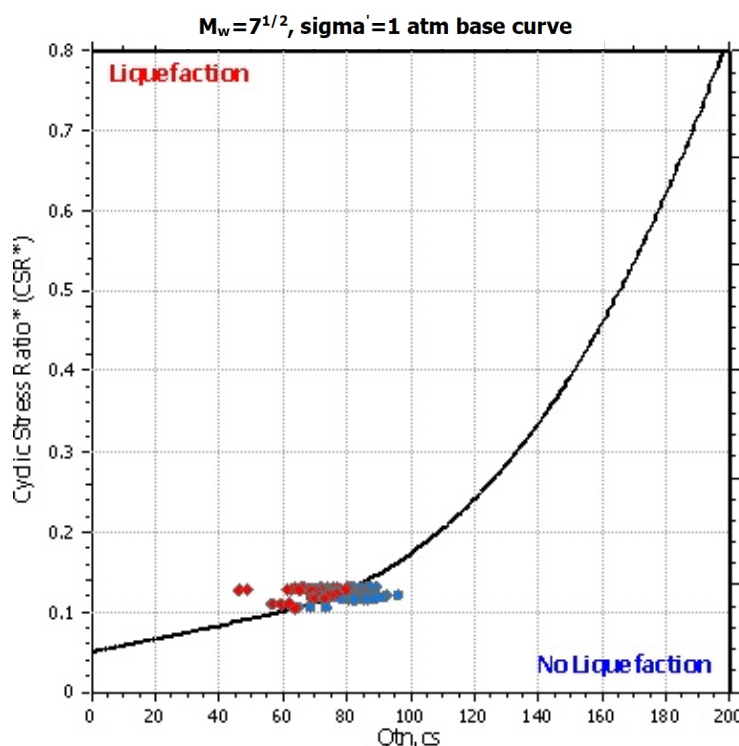
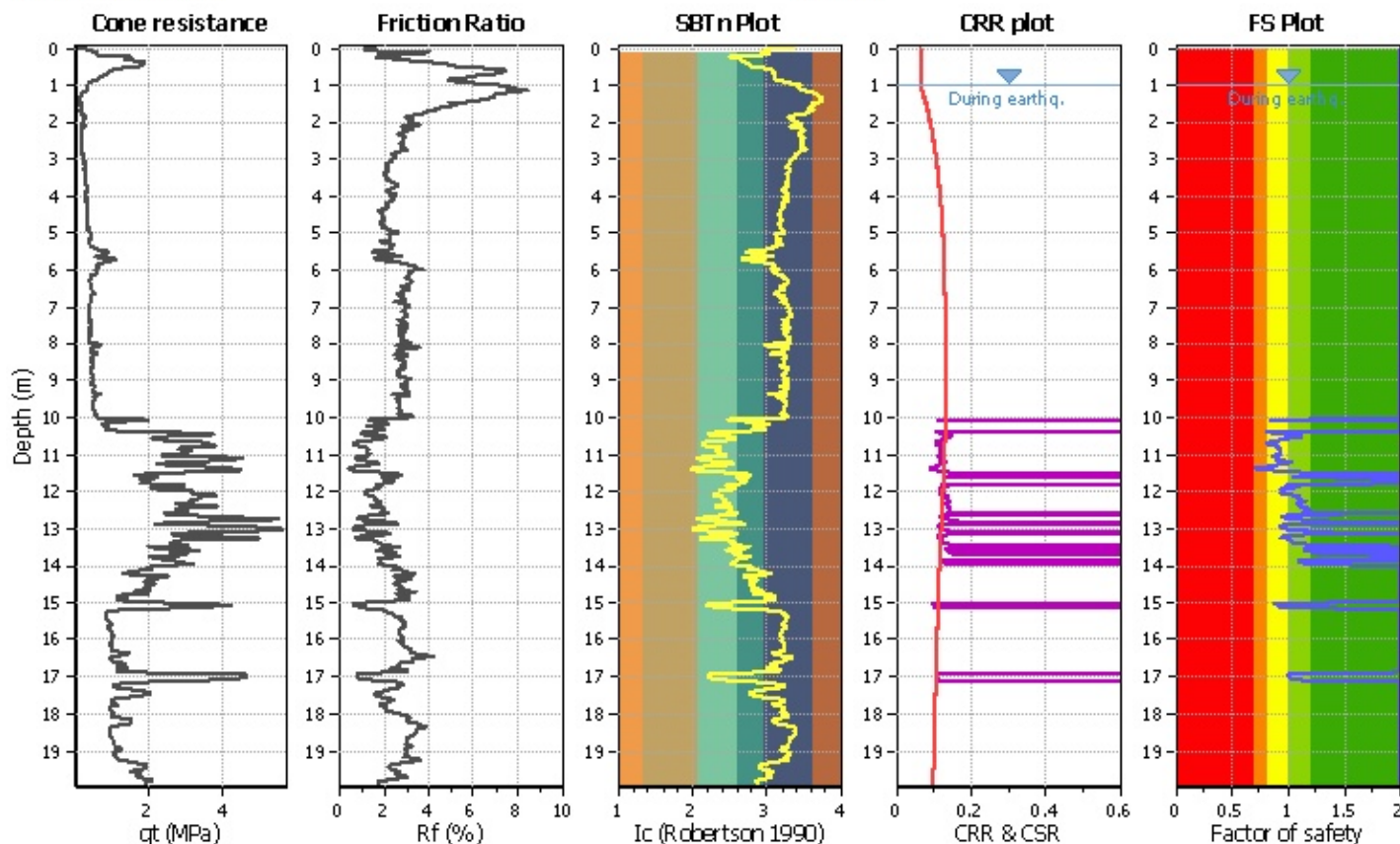
Project title :

Location :

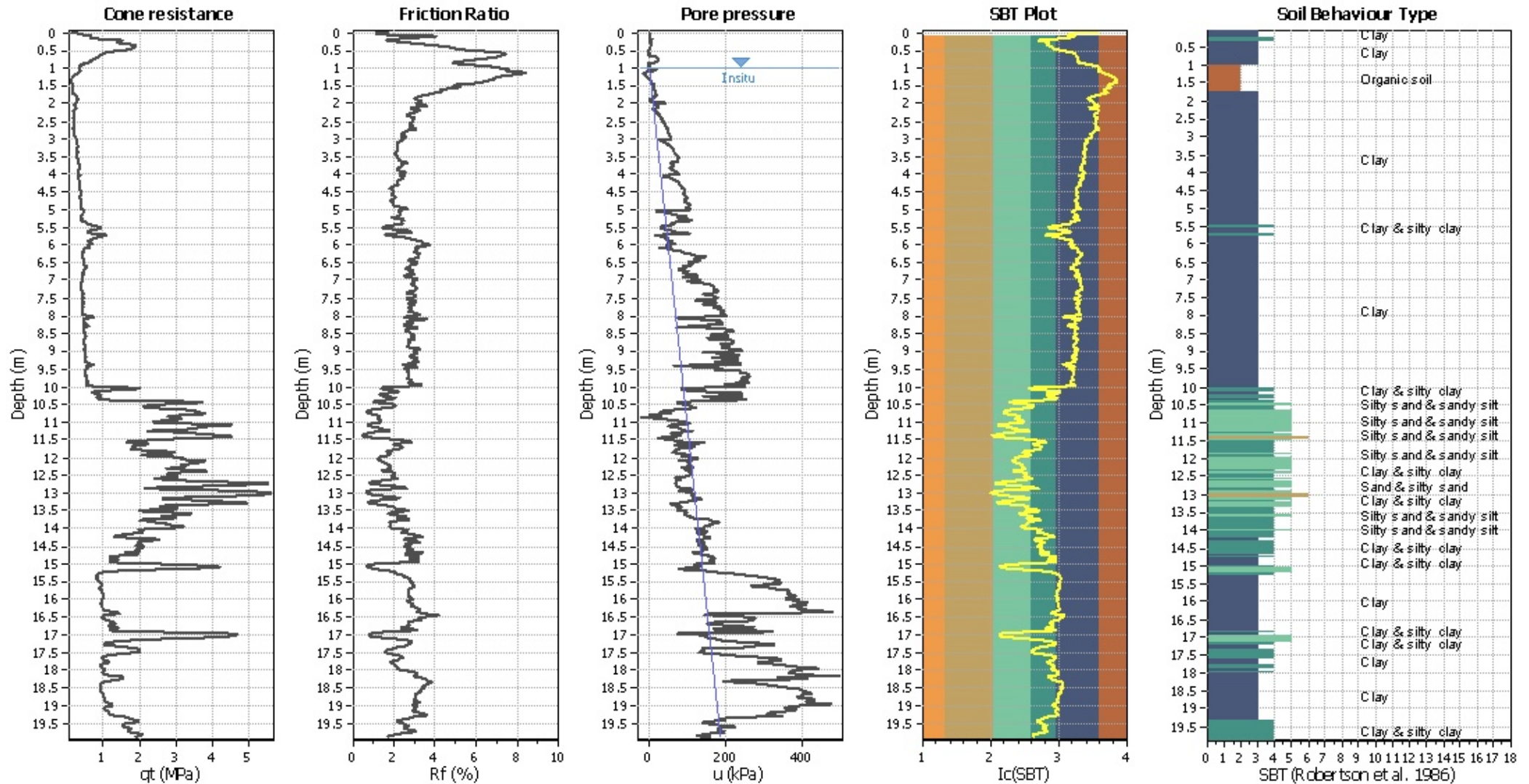
CPT file : CPTU3

Input parameters and analysis data

| | | | | | | | |
|------------------------------|-------------------|---------------------------|--------------|-------------------------|-----|----------------------|--------------|
| Analysis method: | NCEER (1998) | G.W.T. (in-situ): | 1.00 m | Use fill: | No | Clay like behavior | |
| Fines correction method: | NCEER (1998) | G.W.T. (earthq.): | 1.00 m | Fill height: | N/A | applied: | Sands only |
| Points to test: | Based on Ic value | Average results interval: | 3 | Fill weight: | N/A | Limit depth applied: | No |
| Earthquake magnitude M_w : | 6.00 | Ic cut-off value: | 2.60 | Trans. detect. applied: | No | Limit depth: | N/A |
| Peak ground acceleration: | 0.17 | Unit weight calculation: | Based on SBT | K_0 applied: | Yes | MSF method: | Method based |



CPT basic interpretation plo



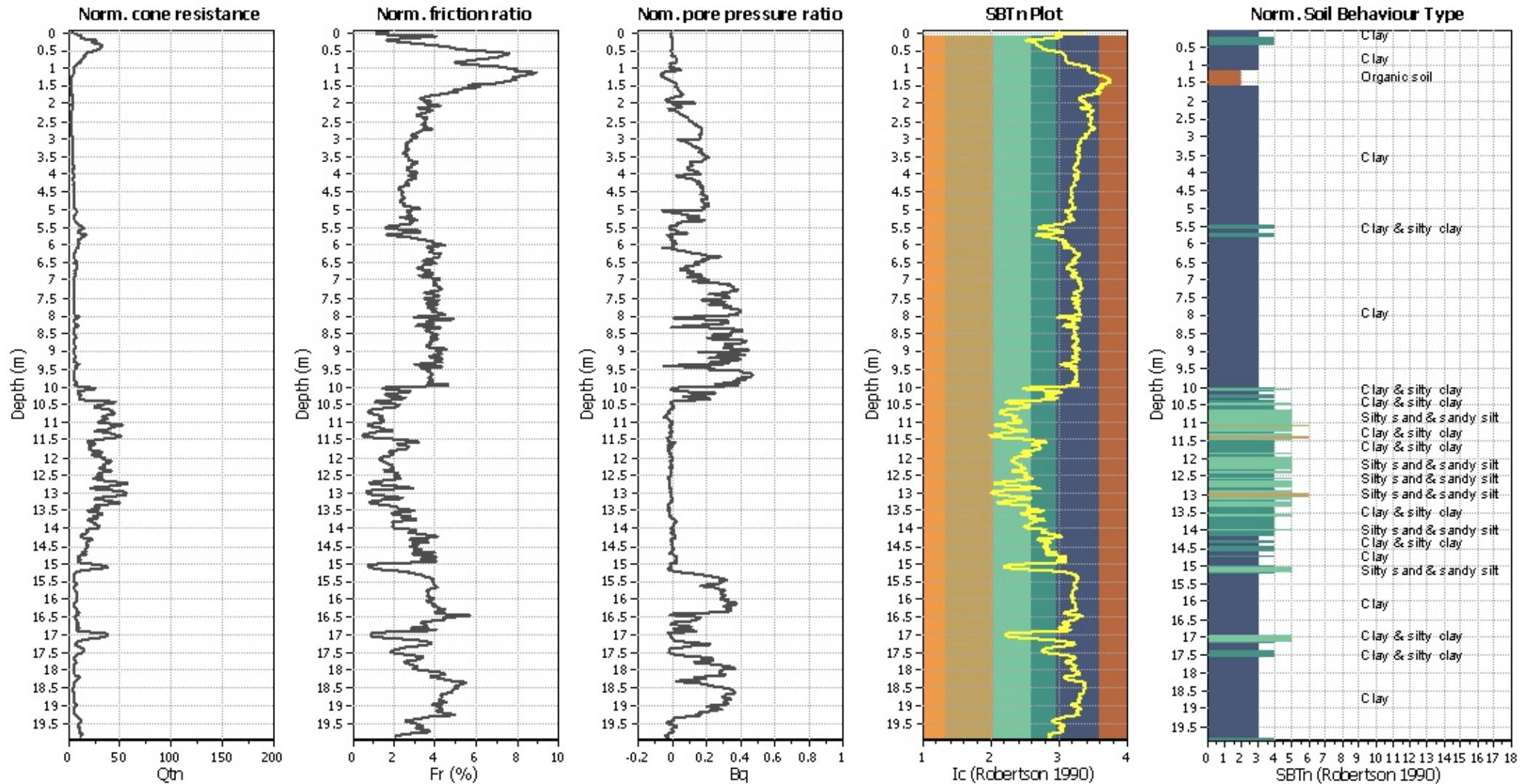
Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 6.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

SBT legend

| | | |
|---------------------------|-----------------------------|----------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty | 7. Gravely sand to sand |
| 2. Organic material | 5. Silty sand to sandy silt | 8. Very stiff sand to |
| 3. Clay to silty clay | 6. Clean sand to silty sand | 9. Very stiff fine grained |

CPT basic interpretation plots (normaliz



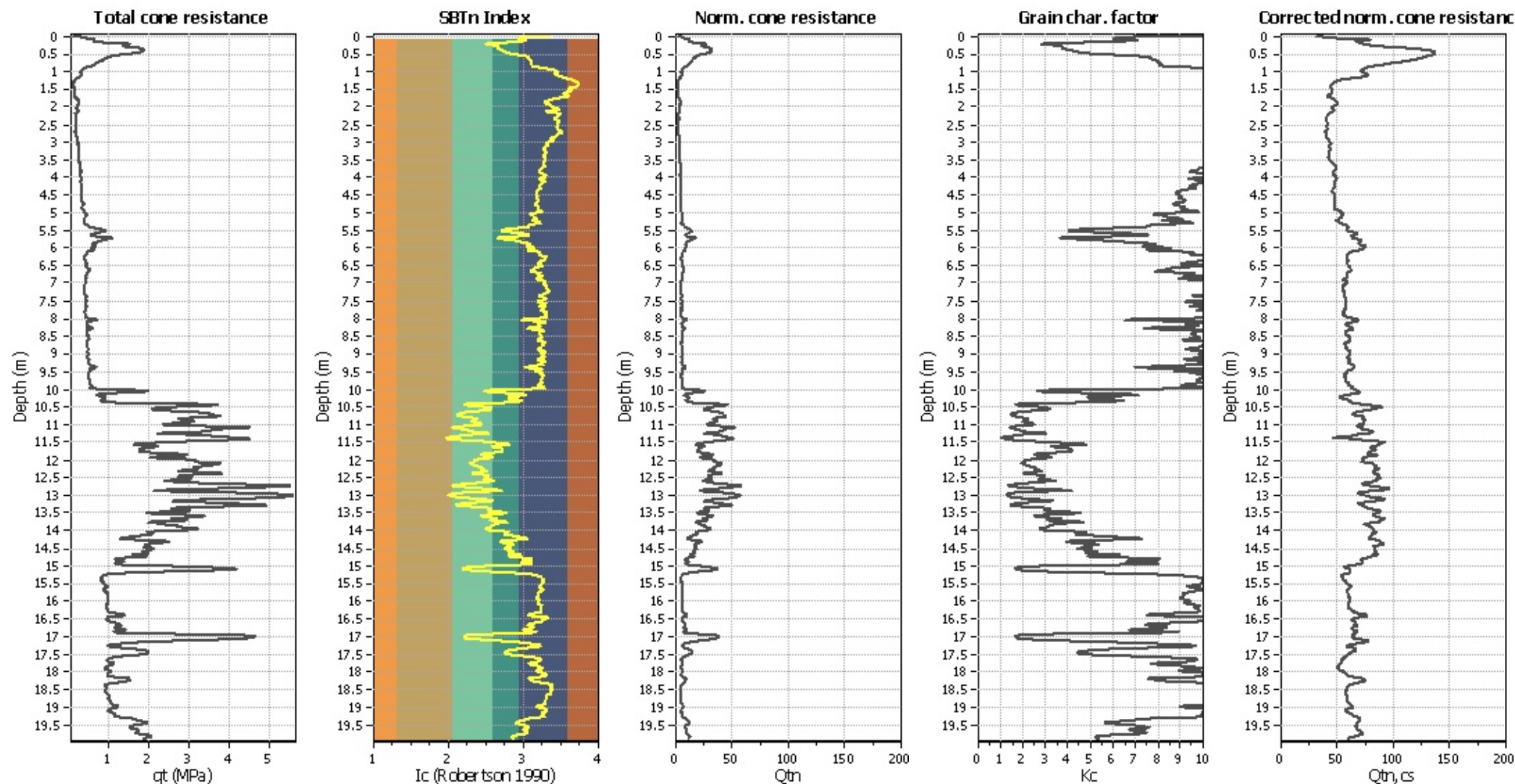
Input parameters and analysis data

| | | | | | |
|---------------------------------------|-------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K ₀ applied: | Yes |
| Earthquake magnitude M _w : | 6.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

SBTn legend

| | | |
|---------------------------|-----------------------------|----------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty | 7. Gravely sand to sand |
| 2. Organic material | 5. Silty sand to sandy silt | 8. Very stiff sand to |
| 3. Clay to silty clay | 6. Clean sand to silty sand | 9. Very stiff fine grained |

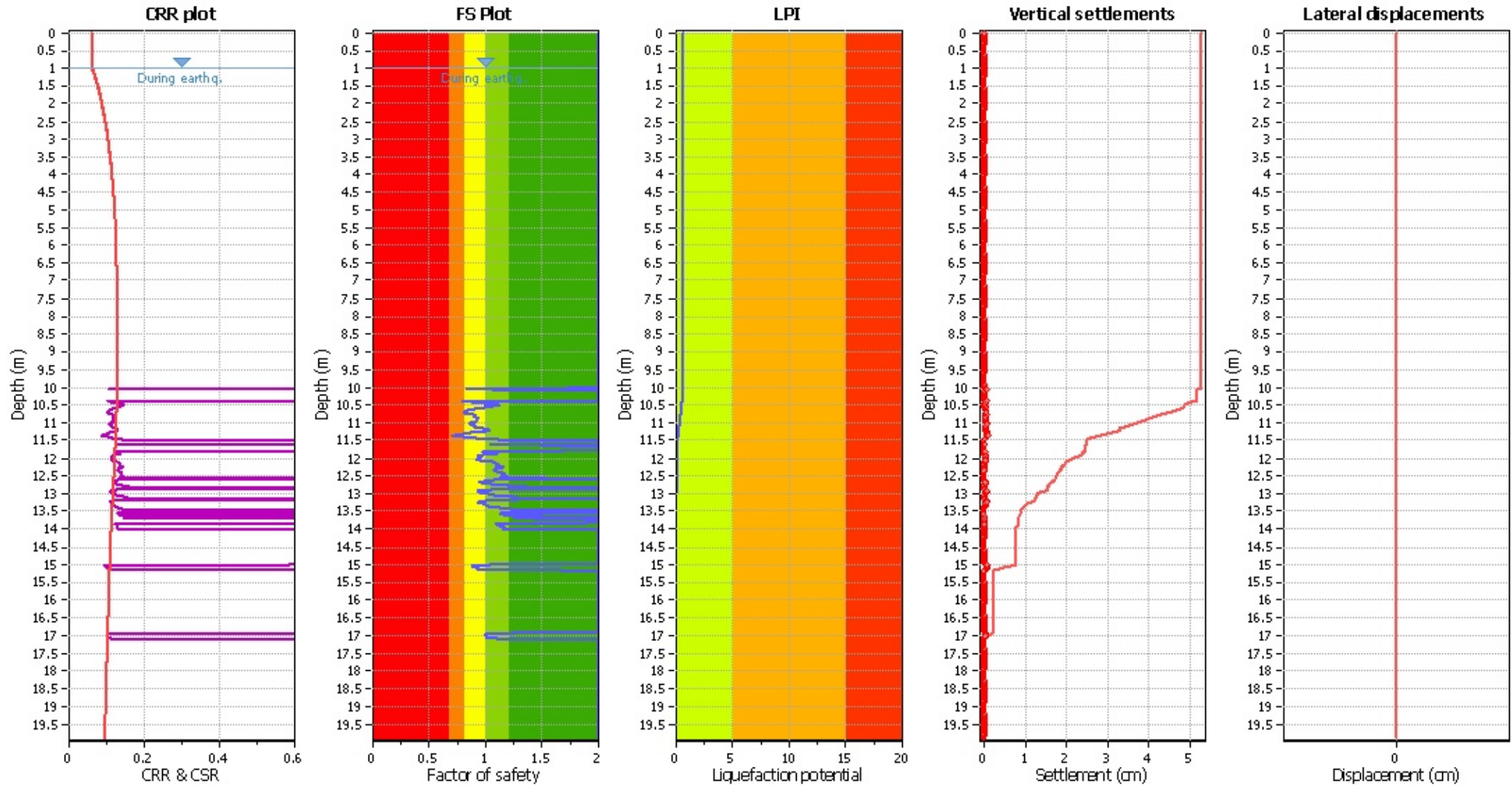
Liquefaction analysis overall plots (intermediate res)



Input parameters and analysis data

| | | | | | |
|---------------------------------------|-------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K ₀ applied: | Yes |
| Earthquake magnitude M _w : | 6.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

Liquefaction analysis overall plot



Input parameters and analysis data

| | | | | | |
|--------------------------------|-------------------|---------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (earthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 6.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

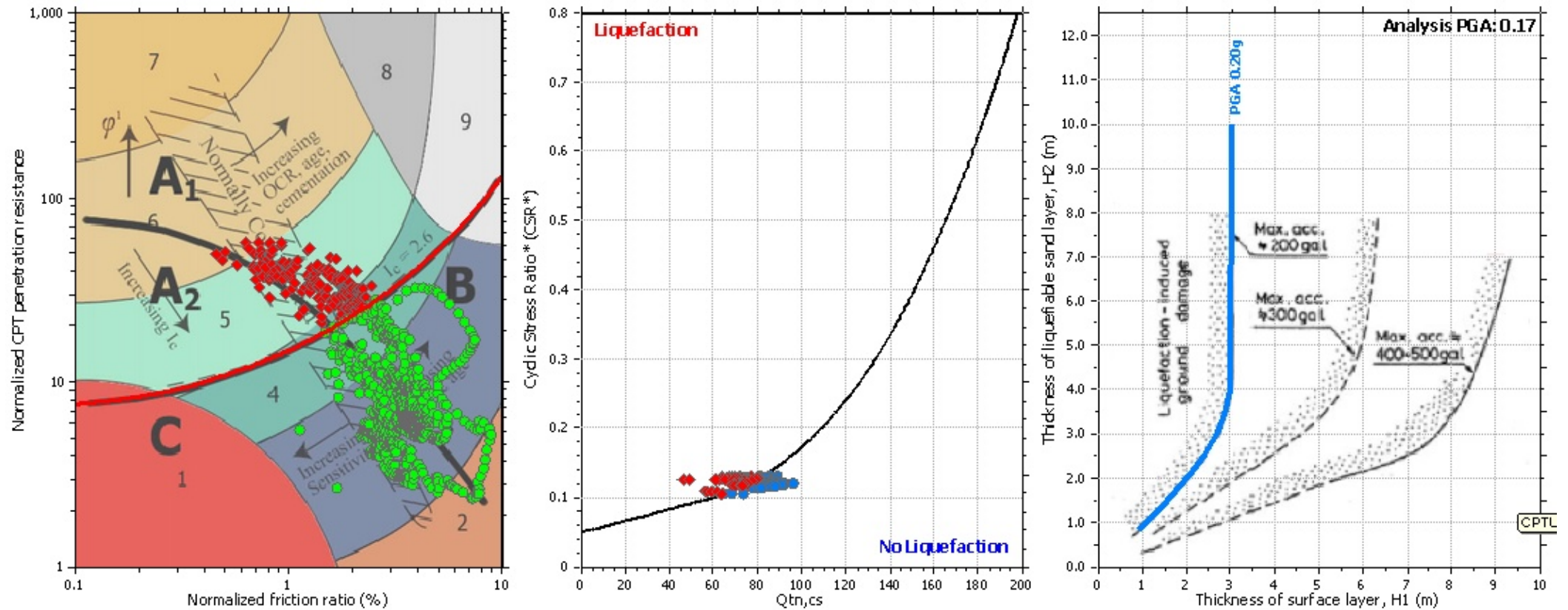
F.S. color scheme

| | |
|---|---|
| ■ | Almost certain it will liquefy |
| ■ | Very likely to liquefy |
| ■ | Liquefaction and no liq. are equally likely |
| ■ | Unlike to liquefy |
| ■ | Almost certain it will not liquefy |

LPI color scheme

| | |
|---------------------------------------|----------------|
| ■ | Very high risk |
| ■ | High risk |
| ■ | Low risk |

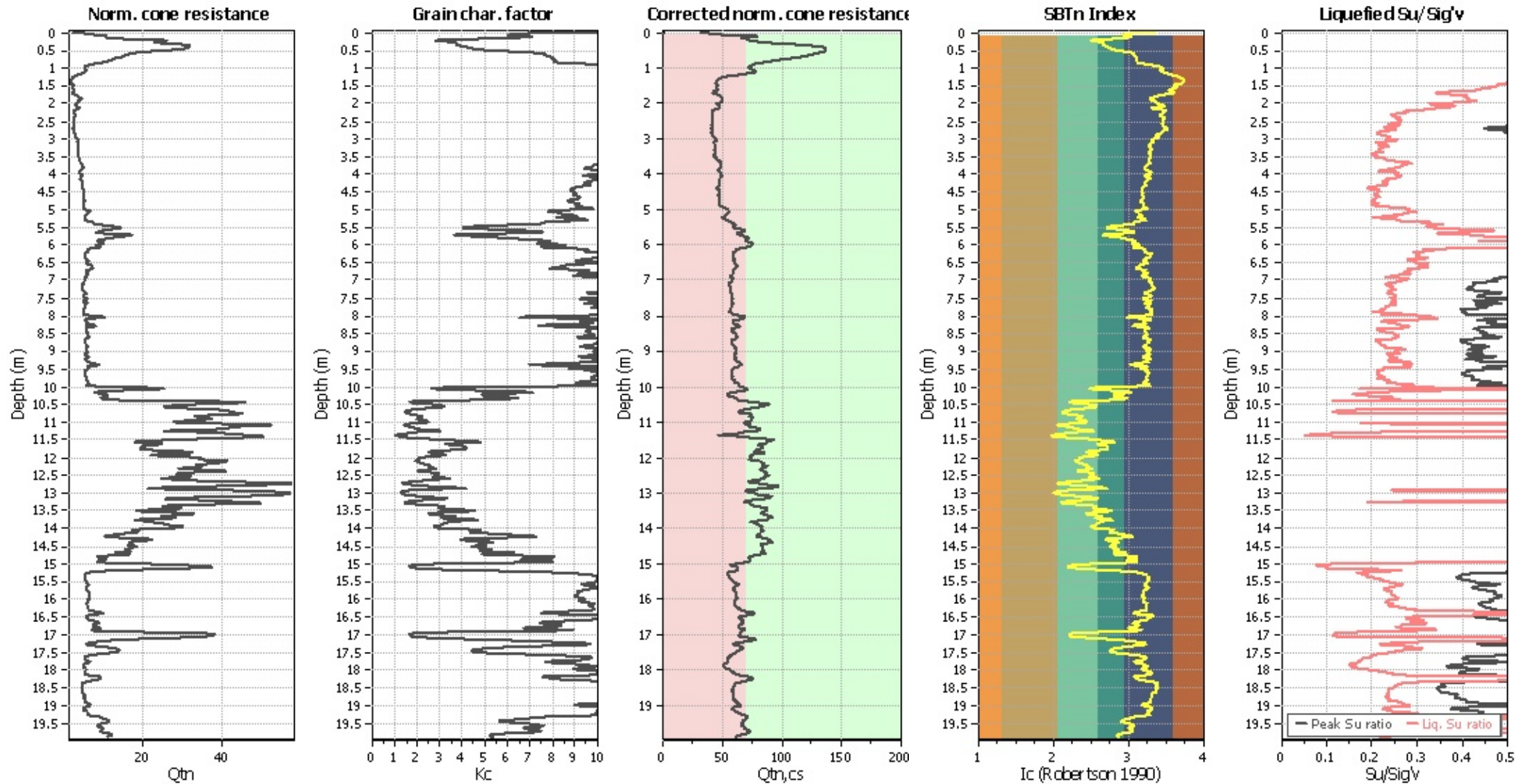
Liquefaction analysis summary plo



Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 6.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

Check for strength loss plots (Robertson (2010))



Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 6.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

| :: Liquefaction Potential Index calculation data :: | | | | | | | | | | | |
|---|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
| 0.02 | 2.00 | 0.00 | 9.99 | 0.02 | 0.00 | 0.04 | 2.00 | 0.00 | 9.98 | 0.02 | 0.00 |
| 0.06 | 2.00 | 0.00 | 9.97 | 0.02 | 0.00 | 0.08 | 2.00 | 0.00 | 9.96 | 0.02 | 0.00 |
| 0.10 | 2.00 | 0.00 | 9.95 | 0.02 | 0.00 | 0.12 | 2.00 | 0.00 | 9.94 | 0.02 | 0.00 |
| 0.14 | 2.00 | 0.00 | 9.93 | 0.02 | 0.00 | 0.16 | 2.00 | 0.00 | 9.92 | 0.02 | 0.00 |
| 0.18 | 2.00 | 0.00 | 9.91 | 0.02 | 0.00 | 0.20 | 2.00 | 0.00 | 9.90 | 0.02 | 0.00 |
| 0.22 | 2.00 | 0.00 | 9.89 | 0.02 | 0.00 | 0.24 | 2.00 | 0.00 | 9.88 | 0.02 | 0.00 |
| 0.26 | 2.00 | 0.00 | 9.87 | 0.02 | 0.00 | 0.28 | 2.00 | 0.00 | 9.86 | 0.02 | 0.00 |
| 0.30 | 2.00 | 0.00 | 9.85 | 0.02 | 0.00 | 0.32 | 2.00 | 0.00 | 9.84 | 0.02 | 0.00 |
| 0.34 | 2.00 | 0.00 | 9.83 | 0.02 | 0.00 | 0.36 | 2.00 | 0.00 | 9.82 | 0.02 | 0.00 |
| 0.38 | 2.00 | 0.00 | 9.81 | 0.02 | 0.00 | 0.40 | 2.00 | 0.00 | 9.80 | 0.02 | 0.00 |
| 0.42 | 2.00 | 0.00 | 9.79 | 0.02 | 0.00 | 0.44 | 2.00 | 0.00 | 9.78 | 0.02 | 0.00 |
| 0.46 | 2.00 | 0.00 | 9.77 | 0.02 | 0.00 | 0.48 | 2.00 | 0.00 | 9.76 | 0.02 | 0.00 |
| 0.50 | 2.00 | 0.00 | 9.75 | 0.02 | 0.00 | 0.52 | 2.00 | 0.00 | 9.74 | 0.02 | 0.00 |
| 0.54 | 2.00 | 0.00 | 9.73 | 0.02 | 0.00 | 0.56 | 2.00 | 0.00 | 9.72 | 0.02 | 0.00 |
| 0.58 | 2.00 | 0.00 | 9.71 | 0.02 | 0.00 | 0.60 | 2.00 | 0.00 | 9.70 | 0.02 | 0.00 |
| 0.62 | 2.00 | 0.00 | 9.69 | 0.02 | 0.00 | 0.64 | 2.00 | 0.00 | 9.68 | 0.02 | 0.00 |
| 0.66 | 2.00 | 0.00 | 9.67 | 0.02 | 0.00 | 0.68 | 2.00 | 0.00 | 9.66 | 0.02 | 0.00 |
| 0.70 | 2.00 | 0.00 | 9.65 | 0.02 | 0.00 | 0.72 | 2.00 | 0.00 | 9.64 | 0.02 | 0.00 |
| 0.74 | 2.00 | 0.00 | 9.63 | 0.02 | 0.00 | 0.76 | 2.00 | 0.00 | 9.62 | 0.02 | 0.00 |
| 0.78 | 2.00 | 0.00 | 9.61 | 0.02 | 0.00 | 0.80 | 2.00 | 0.00 | 9.60 | 0.02 | 0.00 |
| 0.82 | 2.00 | 0.00 | 9.59 | 0.02 | 0.00 | 0.84 | 2.00 | 0.00 | 9.58 | 0.02 | 0.00 |
| 0.86 | 2.00 | 0.00 | 9.57 | 0.02 | 0.00 | 0.88 | 2.00 | 0.00 | 9.56 | 0.02 | 0.00 |
| 0.90 | 2.00 | 0.00 | 9.55 | 0.02 | 0.00 | 0.92 | 2.00 | 0.00 | 9.54 | 0.02 | 0.00 |
| 0.94 | 2.00 | 0.00 | 9.53 | 0.02 | 0.00 | 0.96 | 2.00 | 0.00 | 9.52 | 0.02 | 0.00 |
| 0.98 | 2.00 | 0.00 | 9.51 | 0.02 | 0.00 | 1.00 | 2.00 | 0.00 | 9.50 | 0.02 | 0.00 |
| 1.02 | 2.00 | 0.00 | 9.49 | 0.02 | 0.00 | 1.04 | 2.00 | 0.00 | 9.48 | 0.02 | 0.00 |
| 1.06 | 2.00 | 0.00 | 9.47 | 0.02 | 0.00 | 1.08 | 2.00 | 0.00 | 9.46 | 0.02 | 0.00 |
| 1.10 | 2.00 | 0.00 | 9.45 | 0.02 | 0.00 | 1.12 | 2.00 | 0.00 | 9.44 | 0.02 | 0.00 |
| 1.14 | 2.00 | 0.00 | 9.43 | 0.02 | 0.00 | 1.16 | 2.00 | 0.00 | 9.42 | 0.02 | 0.00 |
| 1.18 | 2.00 | 0.00 | 9.41 | 0.02 | 0.00 | 1.20 | 2.00 | 0.00 | 9.40 | 0.02 | 0.00 |
| 1.22 | 2.00 | 0.00 | 9.39 | 0.02 | 0.00 | 1.24 | 2.00 | 0.00 | 9.38 | 0.02 | 0.00 |
| 1.26 | 2.00 | 0.00 | 9.37 | 0.02 | 0.00 | 1.28 | 2.00 | 0.00 | 9.36 | 0.02 | 0.00 |
| 1.30 | 2.00 | 0.00 | 9.35 | 0.02 | 0.00 | 1.32 | 2.00 | 0.00 | 9.34 | 0.02 | 0.00 |
| 1.34 | 2.00 | 0.00 | 9.33 | 0.02 | 0.00 | 1.36 | 2.00 | 0.00 | 9.32 | 0.02 | 0.00 |
| 1.38 | 2.00 | 0.00 | 9.31 | 0.02 | 0.00 | 1.40 | 2.00 | 0.00 | 9.30 | 0.02 | 0.00 |
| 1.42 | 2.00 | 0.00 | 9.29 | 0.02 | 0.00 | 1.44 | 2.00 | 0.00 | 9.28 | 0.02 | 0.00 |
| 1.46 | 2.00 | 0.00 | 9.27 | 0.02 | 0.00 | 1.48 | 2.00 | 0.00 | 9.26 | 0.02 | 0.00 |
| 1.50 | 2.00 | 0.00 | 9.25 | 0.02 | 0.00 | 1.52 | 2.00 | 0.00 | 9.24 | 0.02 | 0.00 |
| 1.54 | 2.00 | 0.00 | 9.23 | 0.02 | 0.00 | 1.56 | 2.00 | 0.00 | 9.22 | 0.02 | 0.00 |
| 1.58 | 2.00 | 0.00 | 9.21 | 0.02 | 0.00 | 1.60 | 2.00 | 0.00 | 9.20 | 0.02 | 0.00 |
| 1.62 | 2.00 | 0.00 | 9.19 | 0.02 | 0.00 | 1.64 | 2.00 | 0.00 | 9.18 | 0.02 | 0.00 |
| 1.66 | 2.00 | 0.00 | 9.17 | 0.02 | 0.00 | 1.68 | 2.00 | 0.00 | 9.16 | 0.02 | 0.00 |
| 1.70 | 2.00 | 0.00 | 9.15 | 0.02 | 0.00 | 1.72 | 2.00 | 0.00 | 9.14 | 0.02 | 0.00 |
| 1.74 | 2.00 | 0.00 | 9.13 | 0.02 | 0.00 | 1.76 | 2.00 | 0.00 | 9.12 | 0.02 | 0.00 |
| 1.78 | 2.00 | 0.00 | 9.11 | 0.02 | 0.00 | 1.80 | 2.00 | 0.00 | 9.10 | 0.02 | 0.00 |
| 1.82 | 2.00 | 0.00 | 9.09 | 0.02 | 0.00 | 1.84 | 2.00 | 0.00 | 9.08 | 0.02 | 0.00 |
| 1.86 | 2.00 | 0.00 | 9.07 | 0.02 | 0.00 | 1.88 | 2.00 | 0.00 | 9.06 | 0.02 | 0.00 |
| 1.90 | 2.00 | 0.00 | 9.05 | 0.02 | 0.00 | 1.92 | 2.00 | 0.00 | 9.04 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 1.94 | 2.00 | 0.00 | 9.03 | 0.02 | 0.00 | 1.96 | 2.00 | 0.00 | 9.02 | 0.02 | 0.00 |
| 1.98 | 2.00 | 0.00 | 9.01 | 0.02 | 0.00 | 2.00 | 2.00 | 0.00 | 9.00 | 0.02 | 0.00 |
| 2.02 | 2.00 | 0.00 | 8.99 | 0.02 | 0.00 | 2.04 | 2.00 | 0.00 | 8.98 | 0.02 | 0.00 |
| 2.06 | 2.00 | 0.00 | 8.97 | 0.02 | 0.00 | 2.08 | 2.00 | 0.00 | 8.96 | 0.02 | 0.00 |
| 2.10 | 2.00 | 0.00 | 8.95 | 0.02 | 0.00 | 2.12 | 2.00 | 0.00 | 8.94 | 0.02 | 0.00 |
| 2.14 | 2.00 | 0.00 | 8.93 | 0.02 | 0.00 | 2.16 | 2.00 | 0.00 | 8.92 | 0.02 | 0.00 |
| 2.18 | 2.00 | 0.00 | 8.91 | 0.02 | 0.00 | 2.20 | 2.00 | 0.00 | 8.90 | 0.02 | 0.00 |
| 2.22 | 2.00 | 0.00 | 8.89 | 0.02 | 0.00 | 2.24 | 2.00 | 0.00 | 8.88 | 0.02 | 0.00 |
| 2.26 | 2.00 | 0.00 | 8.87 | 0.02 | 0.00 | 2.28 | 2.00 | 0.00 | 8.86 | 0.02 | 0.00 |
| 2.30 | 2.00 | 0.00 | 8.85 | 0.02 | 0.00 | 2.32 | 2.00 | 0.00 | 8.84 | 0.02 | 0.00 |
| 2.34 | 2.00 | 0.00 | 8.83 | 0.02 | 0.00 | 2.36 | 2.00 | 0.00 | 8.82 | 0.02 | 0.00 |
| 2.38 | 2.00 | 0.00 | 8.81 | 0.02 | 0.00 | 2.40 | 2.00 | 0.00 | 8.80 | 0.02 | 0.00 |
| 2.42 | 2.00 | 0.00 | 8.79 | 0.02 | 0.00 | 2.44 | 2.00 | 0.00 | 8.78 | 0.02 | 0.00 |
| 2.46 | 2.00 | 0.00 | 8.77 | 0.02 | 0.00 | 2.48 | 2.00 | 0.00 | 8.76 | 0.02 | 0.00 |
| 2.50 | 2.00 | 0.00 | 8.75 | 0.02 | 0.00 | 2.52 | 2.00 | 0.00 | 8.74 | 0.02 | 0.00 |
| 2.54 | 2.00 | 0.00 | 8.73 | 0.02 | 0.00 | 2.56 | 2.00 | 0.00 | 8.72 | 0.02 | 0.00 |
| 2.58 | 2.00 | 0.00 | 8.71 | 0.02 | 0.00 | 2.60 | 2.00 | 0.00 | 8.70 | 0.02 | 0.00 |
| 2.62 | 2.00 | 0.00 | 8.69 | 0.02 | 0.00 | 2.64 | 2.00 | 0.00 | 8.68 | 0.02 | 0.00 |
| 2.66 | 2.00 | 0.00 | 8.67 | 0.02 | 0.00 | 2.68 | 2.00 | 0.00 | 8.66 | 0.02 | 0.00 |
| 2.70 | 2.00 | 0.00 | 8.65 | 0.02 | 0.00 | 2.72 | 2.00 | 0.00 | 8.64 | 0.02 | 0.00 |
| 2.74 | 2.00 | 0.00 | 8.63 | 0.02 | 0.00 | 2.76 | 2.00 | 0.00 | 8.62 | 0.02 | 0.00 |
| 2.78 | 2.00 | 0.00 | 8.61 | 0.02 | 0.00 | 2.80 | 2.00 | 0.00 | 8.60 | 0.02 | 0.00 |
| 2.82 | 2.00 | 0.00 | 8.59 | 0.02 | 0.00 | 2.84 | 2.00 | 0.00 | 8.58 | 0.02 | 0.00 |
| 2.86 | 2.00 | 0.00 | 8.57 | 0.02 | 0.00 | 2.88 | 2.00 | 0.00 | 8.56 | 0.02 | 0.00 |
| 2.90 | 2.00 | 0.00 | 8.55 | 0.02 | 0.00 | 2.92 | 2.00 | 0.00 | 8.54 | 0.02 | 0.00 |
| 2.94 | 2.00 | 0.00 | 8.53 | 0.02 | 0.00 | 2.96 | 2.00 | 0.00 | 8.52 | 0.02 | 0.00 |
| 2.98 | 2.00 | 0.00 | 8.51 | 0.02 | 0.00 | 3.00 | 2.00 | 0.00 | 8.50 | 0.02 | 0.00 |
| 3.02 | 2.00 | 0.00 | 8.49 | 0.02 | 0.00 | 3.04 | 2.00 | 0.00 | 8.48 | 0.02 | 0.00 |
| 3.06 | 2.00 | 0.00 | 8.47 | 0.02 | 0.00 | 3.08 | 2.00 | 0.00 | 8.46 | 0.02 | 0.00 |
| 3.10 | 2.00 | 0.00 | 8.45 | 0.02 | 0.00 | 3.12 | 2.00 | 0.00 | 8.44 | 0.02 | 0.00 |
| 3.14 | 2.00 | 0.00 | 8.43 | 0.02 | 0.00 | 3.16 | 2.00 | 0.00 | 8.42 | 0.02 | 0.00 |
| 3.18 | 2.00 | 0.00 | 8.41 | 0.02 | 0.00 | 3.20 | 2.00 | 0.00 | 8.40 | 0.02 | 0.00 |
| 3.22 | 2.00 | 0.00 | 8.39 | 0.02 | 0.00 | 3.24 | 2.00 | 0.00 | 8.38 | 0.02 | 0.00 |
| 3.26 | 2.00 | 0.00 | 8.37 | 0.02 | 0.00 | 3.28 | 2.00 | 0.00 | 8.36 | 0.02 | 0.00 |
| 3.30 | 2.00 | 0.00 | 8.35 | 0.02 | 0.00 | 3.32 | 2.00 | 0.00 | 8.34 | 0.02 | 0.00 |
| 3.34 | 2.00 | 0.00 | 8.33 | 0.02 | 0.00 | 3.36 | 2.00 | 0.00 | 8.32 | 0.02 | 0.00 |
| 3.38 | 2.00 | 0.00 | 8.31 | 0.02 | 0.00 | 3.40 | 2.00 | 0.00 | 8.30 | 0.02 | 0.00 |
| 3.42 | 2.00 | 0.00 | 8.29 | 0.02 | 0.00 | 3.44 | 2.00 | 0.00 | 8.28 | 0.02 | 0.00 |
| 3.46 | 2.00 | 0.00 | 8.27 | 0.02 | 0.00 | 3.48 | 2.00 | 0.00 | 8.26 | 0.02 | 0.00 |
| 3.50 | 2.00 | 0.00 | 8.25 | 0.02 | 0.00 | 3.52 | 2.00 | 0.00 | 8.24 | 0.02 | 0.00 |
| 3.54 | 2.00 | 0.00 | 8.23 | 0.02 | 0.00 | 3.56 | 2.00 | 0.00 | 8.22 | 0.02 | 0.00 |
| 3.58 | 2.00 | 0.00 | 8.21 | 0.02 | 0.00 | 3.60 | 2.00 | 0.00 | 8.20 | 0.02 | 0.00 |
| 3.62 | 2.00 | 0.00 | 8.19 | 0.02 | 0.00 | 3.64 | 2.00 | 0.00 | 8.18 | 0.02 | 0.00 |
| 3.66 | 2.00 | 0.00 | 8.17 | 0.02 | 0.00 | 3.68 | 2.00 | 0.00 | 8.16 | 0.02 | 0.00 |
| 3.70 | 2.00 | 0.00 | 8.15 | 0.02 | 0.00 | 3.72 | 2.00 | 0.00 | 8.14 | 0.02 | 0.00 |
| 3.74 | 2.00 | 0.00 | 8.13 | 0.02 | 0.00 | 3.76 | 2.00 | 0.00 | 8.12 | 0.02 | 0.00 |
| 3.78 | 2.00 | 0.00 | 8.11 | 0.02 | 0.00 | 3.80 | 2.00 | 0.00 | 8.10 | 0.02 | 0.00 |
| 3.82 | 2.00 | 0.00 | 8.09 | 0.02 | 0.00 | 3.84 | 2.00 | 0.00 | 8.08 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 3.86 | 2.00 | 0.00 | 8.07 | 0.02 | 0.00 | 3.88 | 2.00 | 0.00 | 8.06 | 0.02 | 0.00 |
| 3.90 | 2.00 | 0.00 | 8.05 | 0.02 | 0.00 | 3.92 | 2.00 | 0.00 | 8.04 | 0.02 | 0.00 |
| 3.94 | 2.00 | 0.00 | 8.03 | 0.02 | 0.00 | 3.96 | 2.00 | 0.00 | 8.02 | 0.02 | 0.00 |
| 3.98 | 2.00 | 0.00 | 8.01 | 0.02 | 0.00 | 4.00 | 2.00 | 0.00 | 8.00 | 0.02 | 0.00 |
| 4.02 | 2.00 | 0.00 | 7.99 | 0.02 | 0.00 | 4.04 | 2.00 | 0.00 | 7.98 | 0.02 | 0.00 |
| 4.06 | 2.00 | 0.00 | 7.97 | 0.02 | 0.00 | 4.08 | 2.00 | 0.00 | 7.96 | 0.02 | 0.00 |
| 4.10 | 2.00 | 0.00 | 7.95 | 0.02 | 0.00 | 4.12 | 2.00 | 0.00 | 7.94 | 0.02 | 0.00 |
| 4.14 | 2.00 | 0.00 | 7.93 | 0.02 | 0.00 | 4.16 | 2.00 | 0.00 | 7.92 | 0.02 | 0.00 |
| 4.18 | 2.00 | 0.00 | 7.91 | 0.02 | 0.00 | 4.20 | 2.00 | 0.00 | 7.90 | 0.02 | 0.00 |
| 4.22 | 2.00 | 0.00 | 7.89 | 0.02 | 0.00 | 4.24 | 2.00 | 0.00 | 7.88 | 0.02 | 0.00 |
| 4.26 | 2.00 | 0.00 | 7.87 | 0.02 | 0.00 | 4.28 | 2.00 | 0.00 | 7.86 | 0.02 | 0.00 |
| 4.30 | 2.00 | 0.00 | 7.85 | 0.02 | 0.00 | 4.32 | 2.00 | 0.00 | 7.84 | 0.02 | 0.00 |
| 4.34 | 2.00 | 0.00 | 7.83 | 0.02 | 0.00 | 4.36 | 2.00 | 0.00 | 7.82 | 0.02 | 0.00 |
| 4.38 | 2.00 | 0.00 | 7.81 | 0.02 | 0.00 | 4.40 | 2.00 | 0.00 | 7.80 | 0.02 | 0.00 |
| 4.42 | 2.00 | 0.00 | 7.79 | 0.02 | 0.00 | 4.44 | 2.00 | 0.00 | 7.78 | 0.02 | 0.00 |
| 4.46 | 2.00 | 0.00 | 7.77 | 0.02 | 0.00 | 4.48 | 2.00 | 0.00 | 7.76 | 0.02 | 0.00 |
| 4.50 | 2.00 | 0.00 | 7.75 | 0.02 | 0.00 | 4.52 | 2.00 | 0.00 | 7.74 | 0.02 | 0.00 |
| 4.54 | 2.00 | 0.00 | 7.73 | 0.02 | 0.00 | 4.56 | 2.00 | 0.00 | 7.72 | 0.02 | 0.00 |
| 4.58 | 2.00 | 0.00 | 7.71 | 0.02 | 0.00 | 4.60 | 2.00 | 0.00 | 7.70 | 0.02 | 0.00 |
| 4.62 | 2.00 | 0.00 | 7.69 | 0.02 | 0.00 | 4.64 | 2.00 | 0.00 | 7.68 | 0.02 | 0.00 |
| 4.66 | 2.00 | 0.00 | 7.67 | 0.02 | 0.00 | 4.68 | 2.00 | 0.00 | 7.66 | 0.02 | 0.00 |
| 4.70 | 2.00 | 0.00 | 7.65 | 0.02 | 0.00 | 4.72 | 2.00 | 0.00 | 7.64 | 0.02 | 0.00 |
| 4.74 | 2.00 | 0.00 | 7.63 | 0.02 | 0.00 | 4.76 | 2.00 | 0.00 | 7.62 | 0.02 | 0.00 |
| 4.78 | 2.00 | 0.00 | 7.61 | 0.02 | 0.00 | 4.80 | 2.00 | 0.00 | 7.60 | 0.02 | 0.00 |
| 4.82 | 2.00 | 0.00 | 7.59 | 0.02 | 0.00 | 4.84 | 2.00 | 0.00 | 7.58 | 0.02 | 0.00 |
| 4.86 | 2.00 | 0.00 | 7.57 | 0.02 | 0.00 | 4.88 | 2.00 | 0.00 | 7.56 | 0.02 | 0.00 |
| 4.90 | 2.00 | 0.00 | 7.55 | 0.02 | 0.00 | 4.92 | 2.00 | 0.00 | 7.54 | 0.02 | 0.00 |
| 4.94 | 2.00 | 0.00 | 7.53 | 0.02 | 0.00 | 4.96 | 2.00 | 0.00 | 7.52 | 0.02 | 0.00 |
| 4.98 | 2.00 | 0.00 | 7.51 | 0.02 | 0.00 | 5.00 | 2.00 | 0.00 | 7.50 | 0.02 | 0.00 |
| 5.02 | 2.00 | 0.00 | 7.49 | 0.02 | 0.00 | 5.04 | 2.00 | 0.00 | 7.48 | 0.02 | 0.00 |
| 5.06 | 2.00 | 0.00 | 7.47 | 0.02 | 0.00 | 5.08 | 2.00 | 0.00 | 7.46 | 0.02 | 0.00 |
| 5.10 | 2.00 | 0.00 | 7.45 | 0.02 | 0.00 | 5.12 | 2.00 | 0.00 | 7.44 | 0.02 | 0.00 |
| 5.14 | 2.00 | 0.00 | 7.43 | 0.02 | 0.00 | 5.16 | 2.00 | 0.00 | 7.42 | 0.02 | 0.00 |
| 5.18 | 2.00 | 0.00 | 7.41 | 0.02 | 0.00 | 5.20 | 2.00 | 0.00 | 7.40 | 0.02 | 0.00 |
| 5.22 | 2.00 | 0.00 | 7.39 | 0.02 | 0.00 | 5.24 | 2.00 | 0.00 | 7.38 | 0.02 | 0.00 |
| 5.26 | 2.00 | 0.00 | 7.37 | 0.02 | 0.00 | 5.28 | 2.00 | 0.00 | 7.36 | 0.02 | 0.00 |
| 5.30 | 2.00 | 0.00 | 7.35 | 0.02 | 0.00 | 5.32 | 2.00 | 0.00 | 7.34 | 0.02 | 0.00 |
| 5.34 | 2.00 | 0.00 | 7.33 | 0.02 | 0.00 | 5.36 | 2.00 | 0.00 | 7.32 | 0.02 | 0.00 |
| 5.38 | 2.00 | 0.00 | 7.31 | 0.02 | 0.00 | 5.40 | 2.00 | 0.00 | 7.30 | 0.02 | 0.00 |
| 5.42 | 2.00 | 0.00 | 7.29 | 0.02 | 0.00 | 5.44 | 2.00 | 0.00 | 7.28 | 0.02 | 0.00 |
| 5.46 | 2.00 | 0.00 | 7.27 | 0.02 | 0.00 | 5.48 | 2.00 | 0.00 | 7.26 | 0.02 | 0.00 |
| 5.50 | 2.00 | 0.00 | 7.25 | 0.02 | 0.00 | 5.52 | 2.00 | 0.00 | 7.24 | 0.02 | 0.00 |
| 5.54 | 2.00 | 0.00 | 7.23 | 0.02 | 0.00 | 5.56 | 2.00 | 0.00 | 7.22 | 0.02 | 0.00 |
| 5.58 | 2.00 | 0.00 | 7.21 | 0.02 | 0.00 | 5.60 | 2.00 | 0.00 | 7.20 | 0.02 | 0.00 |
| 5.62 | 2.00 | 0.00 | 7.19 | 0.02 | 0.00 | 5.64 | 2.00 | 0.00 | 7.18 | 0.02 | 0.00 |
| 5.66 | 2.00 | 0.00 | 7.17 | 0.02 | 0.00 | 5.68 | 2.00 | 0.00 | 7.16 | 0.02 | 0.00 |
| 5.70 | 2.00 | 0.00 | 7.15 | 0.02 | 0.00 | 5.72 | 2.00 | 0.00 | 7.14 | 0.02 | 0.00 |
| 5.74 | 2.00 | 0.00 | 7.13 | 0.02 | 0.00 | 5.76 | 2.00 | 0.00 | 7.12 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 5.78 | 2.00 | 0.00 | 7.11 | 0.02 | 0.00 | 5.80 | 2.00 | 0.00 | 7.10 | 0.02 | 0.00 |
| 5.82 | 2.00 | 0.00 | 7.09 | 0.02 | 0.00 | 5.84 | 2.00 | 0.00 | 7.08 | 0.02 | 0.00 |
| 5.86 | 2.00 | 0.00 | 7.07 | 0.02 | 0.00 | 5.88 | 2.00 | 0.00 | 7.06 | 0.02 | 0.00 |
| 5.90 | 2.00 | 0.00 | 7.05 | 0.02 | 0.00 | 5.92 | 2.00 | 0.00 | 7.04 | 0.02 | 0.00 |
| 5.94 | 2.00 | 0.00 | 7.03 | 0.02 | 0.00 | 5.96 | 2.00 | 0.00 | 7.02 | 0.02 | 0.00 |
| 5.98 | 2.00 | 0.00 | 7.01 | 0.02 | 0.00 | 6.00 | 2.00 | 0.00 | 7.00 | 0.02 | 0.00 |
| 6.02 | 2.00 | 0.00 | 6.99 | 0.02 | 0.00 | 6.04 | 2.00 | 0.00 | 6.98 | 0.02 | 0.00 |
| 6.06 | 2.00 | 0.00 | 6.97 | 0.02 | 0.00 | 6.08 | 2.00 | 0.00 | 6.96 | 0.02 | 0.00 |
| 6.10 | 2.00 | 0.00 | 6.95 | 0.02 | 0.00 | 6.12 | 2.00 | 0.00 | 6.94 | 0.02 | 0.00 |
| 6.14 | 2.00 | 0.00 | 6.93 | 0.02 | 0.00 | 6.16 | 2.00 | 0.00 | 6.92 | 0.02 | 0.00 |
| 6.18 | 2.00 | 0.00 | 6.91 | 0.02 | 0.00 | 6.20 | 2.00 | 0.00 | 6.90 | 0.02 | 0.00 |
| 6.22 | 2.00 | 0.00 | 6.89 | 0.02 | 0.00 | 6.24 | 2.00 | 0.00 | 6.88 | 0.02 | 0.00 |
| 6.26 | 2.00 | 0.00 | 6.87 | 0.02 | 0.00 | 6.28 | 2.00 | 0.00 | 6.86 | 0.02 | 0.00 |
| 6.30 | 2.00 | 0.00 | 6.85 | 0.02 | 0.00 | 6.32 | 2.00 | 0.00 | 6.84 | 0.02 | 0.00 |
| 6.34 | 2.00 | 0.00 | 6.83 | 0.02 | 0.00 | 6.36 | 2.00 | 0.00 | 6.82 | 0.02 | 0.00 |
| 6.38 | 2.00 | 0.00 | 6.81 | 0.02 | 0.00 | 6.40 | 2.00 | 0.00 | 6.80 | 0.02 | 0.00 |
| 6.42 | 2.00 | 0.00 | 6.79 | 0.02 | 0.00 | 6.44 | 2.00 | 0.00 | 6.78 | 0.02 | 0.00 |
| 6.46 | 2.00 | 0.00 | 6.77 | 0.02 | 0.00 | 6.48 | 2.00 | 0.00 | 6.76 | 0.02 | 0.00 |
| 6.50 | 2.00 | 0.00 | 6.75 | 0.02 | 0.00 | 6.52 | 2.00 | 0.00 | 6.74 | 0.02 | 0.00 |
| 6.54 | 2.00 | 0.00 | 6.73 | 0.02 | 0.00 | 6.56 | 2.00 | 0.00 | 6.72 | 0.02 | 0.00 |
| 6.58 | 2.00 | 0.00 | 6.71 | 0.02 | 0.00 | 6.60 | 2.00 | 0.00 | 6.70 | 0.02 | 0.00 |
| 6.62 | 2.00 | 0.00 | 6.69 | 0.02 | 0.00 | 6.64 | 2.00 | 0.00 | 6.68 | 0.02 | 0.00 |
| 6.66 | 2.00 | 0.00 | 6.67 | 0.02 | 0.00 | 6.68 | 2.00 | 0.00 | 6.66 | 0.02 | 0.00 |
| 6.70 | 2.00 | 0.00 | 6.65 | 0.02 | 0.00 | 6.72 | 2.00 | 0.00 | 6.64 | 0.02 | 0.00 |
| 6.74 | 2.00 | 0.00 | 6.63 | 0.02 | 0.00 | 6.76 | 2.00 | 0.00 | 6.62 | 0.02 | 0.00 |
| 6.78 | 2.00 | 0.00 | 6.61 | 0.02 | 0.00 | 6.80 | 2.00 | 0.00 | 6.60 | 0.02 | 0.00 |
| 6.82 | 2.00 | 0.00 | 6.59 | 0.02 | 0.00 | 6.84 | 2.00 | 0.00 | 6.58 | 0.02 | 0.00 |
| 6.86 | 2.00 | 0.00 | 6.57 | 0.02 | 0.00 | 6.88 | 2.00 | 0.00 | 6.56 | 0.02 | 0.00 |
| 6.90 | 2.00 | 0.00 | 6.55 | 0.02 | 0.00 | 6.92 | 2.00 | 0.00 | 6.54 | 0.02 | 0.00 |
| 6.94 | 2.00 | 0.00 | 6.53 | 0.02 | 0.00 | 6.96 | 2.00 | 0.00 | 6.52 | 0.02 | 0.00 |
| 6.98 | 2.00 | 0.00 | 6.51 | 0.02 | 0.00 | 7.00 | 2.00 | 0.00 | 6.50 | 0.02 | 0.00 |
| 7.02 | 2.00 | 0.00 | 6.49 | 0.02 | 0.00 | 7.04 | 2.00 | 0.00 | 6.48 | 0.02 | 0.00 |
| 7.06 | 2.00 | 0.00 | 6.47 | 0.02 | 0.00 | 7.08 | 2.00 | 0.00 | 6.46 | 0.02 | 0.00 |
| 7.10 | 2.00 | 0.00 | 6.45 | 0.02 | 0.00 | 7.12 | 2.00 | 0.00 | 6.44 | 0.02 | 0.00 |
| 7.14 | 2.00 | 0.00 | 6.43 | 0.02 | 0.00 | 7.16 | 2.00 | 0.00 | 6.42 | 0.02 | 0.00 |
| 7.18 | 2.00 | 0.00 | 6.41 | 0.02 | 0.00 | 7.20 | 2.00 | 0.00 | 6.40 | 0.02 | 0.00 |
| 7.22 | 2.00 | 0.00 | 6.39 | 0.02 | 0.00 | 7.24 | 2.00 | 0.00 | 6.38 | 0.02 | 0.00 |
| 7.26 | 2.00 | 0.00 | 6.37 | 0.02 | 0.00 | 7.28 | 2.00 | 0.00 | 6.36 | 0.02 | 0.00 |
| 7.30 | 2.00 | 0.00 | 6.35 | 0.02 | 0.00 | 7.32 | 2.00 | 0.00 | 6.34 | 0.02 | 0.00 |
| 7.34 | 2.00 | 0.00 | 6.33 | 0.02 | 0.00 | 7.36 | 2.00 | 0.00 | 6.32 | 0.02 | 0.00 |
| 7.38 | 2.00 | 0.00 | 6.31 | 0.02 | 0.00 | 7.40 | 2.00 | 0.00 | 6.30 | 0.02 | 0.00 |
| 7.42 | 2.00 | 0.00 | 6.29 | 0.02 | 0.00 | 7.44 | 2.00 | 0.00 | 6.28 | 0.02 | 0.00 |
| 7.46 | 2.00 | 0.00 | 6.27 | 0.02 | 0.00 | 7.48 | 2.00 | 0.00 | 6.26 | 0.02 | 0.00 |
| 7.50 | 2.00 | 0.00 | 6.25 | 0.02 | 0.00 | 7.52 | 2.00 | 0.00 | 6.24 | 0.02 | 0.00 |
| 7.54 | 2.00 | 0.00 | 6.23 | 0.02 | 0.00 | 7.56 | 2.00 | 0.00 | 6.22 | 0.02 | 0.00 |
| 7.58 | 2.00 | 0.00 | 6.21 | 0.02 | 0.00 | 7.60 | 2.00 | 0.00 | 6.20 | 0.02 | 0.00 |
| 7.62 | 2.00 | 0.00 | 6.19 | 0.02 | 0.00 | 7.64 | 2.00 | 0.00 | 6.18 | 0.02 | 0.00 |
| 7.66 | 2.00 | 0.00 | 6.17 | 0.02 | 0.00 | 7.68 | 2.00 | 0.00 | 6.16 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 7.70 | 2.00 | 0.00 | 6.15 | 0.02 | 0.00 | 7.72 | 2.00 | 0.00 | 6.14 | 0.02 | 0.00 |
| 7.74 | 2.00 | 0.00 | 6.13 | 0.02 | 0.00 | 7.76 | 2.00 | 0.00 | 6.12 | 0.02 | 0.00 |
| 7.78 | 2.00 | 0.00 | 6.11 | 0.02 | 0.00 | 7.80 | 2.00 | 0.00 | 6.10 | 0.02 | 0.00 |
| 7.82 | 2.00 | 0.00 | 6.09 | 0.02 | 0.00 | 7.84 | 2.00 | 0.00 | 6.08 | 0.02 | 0.00 |
| 7.86 | 2.00 | 0.00 | 6.07 | 0.02 | 0.00 | 7.88 | 2.00 | 0.00 | 6.06 | 0.02 | 0.00 |
| 7.90 | 2.00 | 0.00 | 6.05 | 0.02 | 0.00 | 7.92 | 2.00 | 0.00 | 6.04 | 0.02 | 0.00 |
| 7.94 | 2.00 | 0.00 | 6.03 | 0.02 | 0.00 | 7.96 | 2.00 | 0.00 | 6.02 | 0.02 | 0.00 |
| 7.98 | 2.00 | 0.00 | 6.01 | 0.02 | 0.00 | 8.00 | 2.00 | 0.00 | 6.00 | 0.02 | 0.00 |
| 8.02 | 2.00 | 0.00 | 5.99 | 0.02 | 0.00 | 8.04 | 2.00 | 0.00 | 5.98 | 0.02 | 0.00 |
| 8.06 | 2.00 | 0.00 | 5.97 | 0.02 | 0.00 | 8.08 | 2.00 | 0.00 | 5.96 | 0.02 | 0.00 |
| 8.10 | 2.00 | 0.00 | 5.95 | 0.02 | 0.00 | 8.12 | 2.00 | 0.00 | 5.94 | 0.02 | 0.00 |
| 8.14 | 2.00 | 0.00 | 5.93 | 0.02 | 0.00 | 8.16 | 2.00 | 0.00 | 5.92 | 0.02 | 0.00 |
| 8.18 | 2.00 | 0.00 | 5.91 | 0.02 | 0.00 | 8.20 | 2.00 | 0.00 | 5.90 | 0.02 | 0.00 |
| 8.22 | 2.00 | 0.00 | 5.89 | 0.02 | 0.00 | 8.24 | 2.00 | 0.00 | 5.88 | 0.02 | 0.00 |
| 8.26 | 2.00 | 0.00 | 5.87 | 0.02 | 0.00 | 8.28 | 2.00 | 0.00 | 5.86 | 0.02 | 0.00 |
| 8.30 | 2.00 | 0.00 | 5.85 | 0.02 | 0.00 | 8.32 | 2.00 | 0.00 | 5.84 | 0.02 | 0.00 |
| 8.34 | 2.00 | 0.00 | 5.83 | 0.02 | 0.00 | 8.36 | 2.00 | 0.00 | 5.82 | 0.02 | 0.00 |
| 8.38 | 2.00 | 0.00 | 5.81 | 0.02 | 0.00 | 8.40 | 2.00 | 0.00 | 5.80 | 0.02 | 0.00 |
| 8.42 | 2.00 | 0.00 | 5.79 | 0.02 | 0.00 | 8.44 | 2.00 | 0.00 | 5.78 | 0.02 | 0.00 |
| 8.46 | 2.00 | 0.00 | 5.77 | 0.02 | 0.00 | 8.48 | 2.00 | 0.00 | 5.76 | 0.02 | 0.00 |
| 8.50 | 2.00 | 0.00 | 5.75 | 0.02 | 0.00 | 8.52 | 2.00 | 0.00 | 5.74 | 0.02 | 0.00 |
| 8.54 | 2.00 | 0.00 | 5.73 | 0.02 | 0.00 | 8.56 | 2.00 | 0.00 | 5.72 | 0.02 | 0.00 |
| 8.58 | 2.00 | 0.00 | 5.71 | 0.02 | 0.00 | 8.60 | 2.00 | 0.00 | 5.70 | 0.02 | 0.00 |
| 8.62 | 2.00 | 0.00 | 5.69 | 0.02 | 0.00 | 8.64 | 2.00 | 0.00 | 5.68 | 0.02 | 0.00 |
| 8.66 | 2.00 | 0.00 | 5.67 | 0.02 | 0.00 | 8.68 | 2.00 | 0.00 | 5.66 | 0.02 | 0.00 |
| 8.70 | 2.00 | 0.00 | 5.65 | 0.02 | 0.00 | 8.72 | 2.00 | 0.00 | 5.64 | 0.02 | 0.00 |
| 8.74 | 2.00 | 0.00 | 5.63 | 0.02 | 0.00 | 8.76 | 2.00 | 0.00 | 5.62 | 0.02 | 0.00 |
| 8.78 | 2.00 | 0.00 | 5.61 | 0.02 | 0.00 | 8.80 | 2.00 | 0.00 | 5.60 | 0.02 | 0.00 |
| 8.82 | 2.00 | 0.00 | 5.59 | 0.02 | 0.00 | 8.84 | 2.00 | 0.00 | 5.58 | 0.02 | 0.00 |
| 8.86 | 2.00 | 0.00 | 5.57 | 0.02 | 0.00 | 8.88 | 2.00 | 0.00 | 5.56 | 0.02 | 0.00 |
| 8.90 | 2.00 | 0.00 | 5.55 | 0.02 | 0.00 | 8.92 | 2.00 | 0.00 | 5.54 | 0.02 | 0.00 |
| 8.94 | 2.00 | 0.00 | 5.53 | 0.02 | 0.00 | 8.96 | 2.00 | 0.00 | 5.52 | 0.02 | 0.00 |
| 8.98 | 2.00 | 0.00 | 5.51 | 0.02 | 0.00 | 9.00 | 2.00 | 0.00 | 5.50 | 0.02 | 0.00 |
| 9.02 | 2.00 | 0.00 | 5.49 | 0.02 | 0.00 | 9.04 | 2.00 | 0.00 | 5.48 | 0.02 | 0.00 |
| 9.06 | 2.00 | 0.00 | 5.47 | 0.02 | 0.00 | 9.08 | 2.00 | 0.00 | 5.46 | 0.02 | 0.00 |
| 9.10 | 2.00 | 0.00 | 5.45 | 0.02 | 0.00 | 9.12 | 2.00 | 0.00 | 5.44 | 0.02 | 0.00 |
| 9.14 | 2.00 | 0.00 | 5.43 | 0.02 | 0.00 | 9.16 | 2.00 | 0.00 | 5.42 | 0.02 | 0.00 |
| 9.18 | 2.00 | 0.00 | 5.41 | 0.02 | 0.00 | 9.20 | 2.00 | 0.00 | 5.40 | 0.02 | 0.00 |
| 9.22 | 2.00 | 0.00 | 5.39 | 0.02 | 0.00 | 9.24 | 2.00 | 0.00 | 5.38 | 0.02 | 0.00 |
| 9.26 | 2.00 | 0.00 | 5.37 | 0.02 | 0.00 | 9.28 | 2.00 | 0.00 | 5.36 | 0.02 | 0.00 |
| 9.30 | 2.00 | 0.00 | 5.35 | 0.02 | 0.00 | 9.32 | 2.00 | 0.00 | 5.34 | 0.02 | 0.00 |
| 9.34 | 2.00 | 0.00 | 5.33 | 0.02 | 0.00 | 9.36 | 2.00 | 0.00 | 5.32 | 0.02 | 0.00 |
| 9.38 | 2.00 | 0.00 | 5.31 | 0.02 | 0.00 | 9.40 | 2.00 | 0.00 | 5.30 | 0.02 | 0.00 |
| 9.42 | 2.00 | 0.00 | 5.29 | 0.02 | 0.00 | 9.44 | 2.00 | 0.00 | 5.28 | 0.02 | 0.00 |
| 9.46 | 2.00 | 0.00 | 5.27 | 0.02 | 0.00 | 9.48 | 2.00 | 0.00 | 5.26 | 0.02 | 0.00 |
| 9.50 | 2.00 | 0.00 | 5.25 | 0.02 | 0.00 | 9.52 | 2.00 | 0.00 | 5.24 | 0.02 | 0.00 |
| 9.54 | 2.00 | 0.00 | 5.23 | 0.02 | 0.00 | 9.56 | 2.00 | 0.00 | 5.22 | 0.02 | 0.00 |
| 9.58 | 2.00 | 0.00 | 5.21 | 0.02 | 0.00 | 9.60 | 2.00 | 0.00 | 5.20 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 9.62 | 2.00 | 0.00 | 5.19 | 0.02 | 0.00 | 9.64 | 2.00 | 0.00 | 5.18 | 0.02 | 0.00 |
| 9.66 | 2.00 | 0.00 | 5.17 | 0.02 | 0.00 | 9.68 | 2.00 | 0.00 | 5.16 | 0.02 | 0.00 |
| 9.70 | 2.00 | 0.00 | 5.15 | 0.02 | 0.00 | 9.72 | 2.00 | 0.00 | 5.14 | 0.02 | 0.00 |
| 9.74 | 2.00 | 0.00 | 5.13 | 0.02 | 0.00 | 9.76 | 2.00 | 0.00 | 5.12 | 0.02 | 0.00 |
| 9.78 | 2.00 | 0.00 | 5.11 | 0.02 | 0.00 | 9.80 | 2.00 | 0.00 | 5.10 | 0.02 | 0.00 |
| 9.82 | 2.00 | 0.00 | 5.09 | 0.02 | 0.00 | 9.84 | 2.00 | 0.00 | 5.08 | 0.02 | 0.00 |
| 9.86 | 2.00 | 0.00 | 5.07 | 0.02 | 0.00 | 9.88 | 2.00 | 0.00 | 5.06 | 0.02 | 0.00 |
| 9.90 | 2.00 | 0.00 | 5.05 | 0.02 | 0.00 | 9.92 | 2.00 | 0.00 | 5.04 | 0.02 | 0.00 |
| 9.94 | 2.00 | 0.00 | 5.03 | 0.02 | 0.00 | 9.96 | 2.00 | 0.00 | 5.02 | 0.02 | 0.00 |
| 9.98 | 2.00 | 0.00 | 5.01 | 0.02 | 0.00 | 10.00 | 2.00 | 0.00 | 5.00 | 0.02 | 0.00 |
| 10.02 | 2.00 | 0.00 | 4.99 | 0.02 | 0.00 | 10.04 | 0.84 | 0.16 | 4.98 | 0.02 | 0.02 |
| 10.06 | 0.86 | 0.14 | 4.97 | 0.02 | 0.01 | 10.08 | 2.00 | 0.00 | 4.96 | 0.02 | 0.00 |
| 10.10 | 2.00 | 0.00 | 4.95 | 0.02 | 0.00 | 10.12 | 2.00 | 0.00 | 4.94 | 0.02 | 0.00 |
| 10.14 | 2.00 | 0.00 | 4.93 | 0.02 | 0.00 | 10.16 | 2.00 | 0.00 | 4.92 | 0.02 | 0.00 |
| 10.18 | 2.00 | 0.00 | 4.91 | 0.02 | 0.00 | 10.20 | 2.00 | 0.00 | 4.90 | 0.02 | 0.00 |
| 10.22 | 2.00 | 0.00 | 4.89 | 0.02 | 0.00 | 10.24 | 2.00 | 0.00 | 4.88 | 0.02 | 0.00 |
| 10.26 | 2.00 | 0.00 | 4.87 | 0.02 | 0.00 | 10.28 | 2.00 | 0.00 | 4.86 | 0.02 | 0.00 |
| 10.30 | 2.00 | 0.00 | 4.85 | 0.02 | 0.00 | 10.32 | 2.00 | 0.00 | 4.84 | 0.02 | 0.00 |
| 10.34 | 2.00 | 0.00 | 4.83 | 0.02 | 0.00 | 10.36 | 2.00 | 0.00 | 4.82 | 0.02 | 0.00 |
| 10.38 | 0.80 | 0.20 | 4.81 | 0.02 | 0.02 | 10.40 | 0.83 | 0.17 | 4.80 | 0.02 | 0.02 |
| 10.42 | 0.88 | 0.12 | 4.79 | 0.02 | 0.01 | 10.44 | 0.94 | 0.06 | 4.78 | 0.02 | 0.01 |
| 10.46 | 1.01 | 0.00 | 4.77 | 0.02 | 0.00 | 10.48 | 1.08 | 0.00 | 4.76 | 0.02 | 0.00 |
| 10.50 | 1.13 | 0.00 | 4.75 | 0.02 | 0.00 | 10.52 | 1.10 | 0.00 | 4.74 | 0.02 | 0.00 |
| 10.54 | 1.06 | 0.00 | 4.73 | 0.02 | 0.00 | 10.56 | 1.02 | 0.00 | 4.72 | 0.02 | 0.00 |
| 10.58 | 0.99 | 0.01 | 4.71 | 0.02 | 0.00 | 10.60 | 0.93 | 0.07 | 4.70 | 0.02 | 0.01 |
| 10.62 | 0.88 | 0.12 | 4.69 | 0.02 | 0.01 | 10.64 | 0.85 | 0.15 | 4.68 | 0.02 | 0.01 |
| 10.66 | 0.84 | 0.16 | 4.67 | 0.02 | 0.02 | 10.68 | 0.82 | 0.18 | 4.66 | 0.02 | 0.02 |
| 10.70 | 0.81 | 0.19 | 4.65 | 0.02 | 0.02 | 10.72 | 0.81 | 0.19 | 4.64 | 0.02 | 0.02 |
| 10.74 | 0.83 | 0.17 | 4.63 | 0.02 | 0.02 | 10.76 | 0.89 | 0.11 | 4.62 | 0.02 | 0.01 |
| 10.78 | 0.91 | 0.09 | 4.61 | 0.02 | 0.01 | 10.80 | 0.91 | 0.09 | 4.60 | 0.02 | 0.01 |
| 10.82 | 0.90 | 0.10 | 4.59 | 0.02 | 0.01 | 10.84 | 0.91 | 0.09 | 4.58 | 0.02 | 0.01 |
| 10.86 | 0.93 | 0.07 | 4.57 | 0.02 | 0.01 | 10.88 | 0.93 | 0.07 | 4.56 | 0.02 | 0.01 |
| 10.90 | 0.93 | 0.07 | 4.55 | 0.02 | 0.01 | 10.92 | 0.92 | 0.08 | 4.54 | 0.02 | 0.01 |
| 10.94 | 0.93 | 0.07 | 4.53 | 0.02 | 0.01 | 10.96 | 0.92 | 0.08 | 4.52 | 0.02 | 0.01 |
| 10.98 | 0.90 | 0.10 | 4.51 | 0.02 | 0.01 | 11.00 | 0.88 | 0.12 | 4.50 | 0.02 | 0.01 |
| 11.02 | 0.86 | 0.14 | 4.49 | 0.02 | 0.01 | 11.04 | 0.86 | 0.14 | 4.48 | 0.02 | 0.01 |
| 11.06 | 0.89 | 0.11 | 4.47 | 0.02 | 0.01 | 11.08 | 0.91 | 0.09 | 4.46 | 0.02 | 0.01 |
| 11.10 | 0.90 | 0.10 | 4.45 | 0.02 | 0.01 | 11.12 | 0.90 | 0.10 | 4.44 | 0.02 | 0.01 |
| 11.14 | 0.93 | 0.07 | 4.43 | 0.02 | 0.01 | 11.16 | 0.98 | 0.02 | 4.42 | 0.02 | 0.00 |
| 11.18 | 1.03 | 0.00 | 4.41 | 0.02 | 0.00 | 11.20 | 1.04 | 0.00 | 4.40 | 0.02 | 0.00 |
| 11.22 | 1.00 | 0.00 | 4.39 | 0.02 | 0.00 | 11.24 | 0.94 | 0.06 | 4.38 | 0.02 | 0.01 |
| 11.26 | 0.89 | 0.11 | 4.37 | 0.02 | 0.01 | 11.28 | 0.86 | 0.14 | 4.36 | 0.02 | 0.01 |
| 11.30 | 0.83 | 0.17 | 4.35 | 0.02 | 0.01 | 11.32 | 0.81 | 0.19 | 4.34 | 0.02 | 0.02 |
| 11.34 | 0.80 | 0.20 | 4.33 | 0.02 | 0.02 | 11.36 | 0.70 | 0.30 | 4.32 | 0.02 | 0.03 |
| 11.38 | 0.72 | 0.28 | 4.31 | 0.02 | 0.02 | 11.40 | 0.84 | 0.16 | 4.30 | 0.02 | 0.01 |
| 11.42 | 0.88 | 0.12 | 4.29 | 0.02 | 0.01 | 11.44 | 0.93 | 0.07 | 4.28 | 0.02 | 0.01 |
| 11.46 | 1.04 | 0.00 | 4.27 | 0.02 | 0.00 | 11.48 | 1.15 | 0.00 | 4.26 | 0.02 | 0.00 |
| 11.50 | 2.00 | 0.00 | 4.25 | 0.02 | 0.00 | 11.52 | 2.00 | 0.00 | 4.24 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 11.54 | 2.00 | 0.00 | 4.23 | 0.02 | 0.00 | 11.56 | 2.00 | 0.00 | 4.22 | 0.02 | 0.00 |
| 11.58 | 2.00 | 0.00 | 4.21 | 0.02 | 0.00 | 11.60 | 2.00 | 0.00 | 4.20 | 0.02 | 0.00 |
| 11.62 | 1.04 | 0.00 | 4.19 | 0.02 | 0.00 | 11.64 | 2.00 | 0.00 | 4.18 | 0.02 | 0.00 |
| 11.66 | 2.00 | 0.00 | 4.17 | 0.02 | 0.00 | 11.68 | 2.00 | 0.00 | 4.16 | 0.02 | 0.00 |
| 11.70 | 2.00 | 0.00 | 4.15 | 0.02 | 0.00 | 11.72 | 2.00 | 0.00 | 4.14 | 0.02 | 0.00 |
| 11.74 | 2.00 | 0.00 | 4.13 | 0.02 | 0.00 | 11.76 | 2.00 | 0.00 | 4.12 | 0.02 | 0.00 |
| 11.78 | 2.00 | 0.00 | 4.11 | 0.02 | 0.00 | 11.80 | 0.98 | 0.02 | 4.10 | 0.02 | 0.00 |
| 11.82 | 1.00 | 0.00 | 4.09 | 0.02 | 0.00 | 11.84 | 1.07 | 0.00 | 4.08 | 0.02 | 0.00 |
| 11.86 | 1.11 | 0.00 | 4.07 | 0.02 | 0.00 | 11.88 | 1.07 | 0.00 | 4.06 | 0.02 | 0.00 |
| 11.90 | 0.99 | 0.01 | 4.05 | 0.02 | 0.00 | 11.92 | 0.94 | 0.06 | 4.04 | 0.02 | 0.00 |
| 11.94 | 0.94 | 0.06 | 4.03 | 0.02 | 0.00 | 11.96 | 0.94 | 0.06 | 4.02 | 0.02 | 0.00 |
| 11.98 | 0.96 | 0.04 | 4.01 | 0.02 | 0.00 | 12.00 | 0.95 | 0.05 | 4.00 | 0.02 | 0.00 |
| 12.02 | 0.94 | 0.06 | 3.99 | 0.02 | 0.01 | 12.04 | 0.92 | 0.08 | 3.98 | 0.02 | 0.01 |
| 12.06 | 0.95 | 0.05 | 3.97 | 0.02 | 0.00 | 12.08 | 0.99 | 0.01 | 3.96 | 0.02 | 0.00 |
| 12.10 | 1.03 | 0.00 | 3.95 | 0.02 | 0.00 | 12.12 | 1.07 | 0.00 | 3.94 | 0.02 | 0.00 |
| 12.14 | 1.09 | 0.00 | 3.93 | 0.02 | 0.00 | 12.16 | 1.10 | 0.00 | 3.92 | 0.02 | 0.00 |
| 12.18 | 1.09 | 0.00 | 3.91 | 0.02 | 0.00 | 12.20 | 1.08 | 0.00 | 3.90 | 0.02 | 0.00 |
| 12.22 | 1.13 | 0.00 | 3.89 | 0.02 | 0.00 | 12.24 | 1.16 | 0.00 | 3.88 | 0.02 | 0.00 |
| 12.26 | 1.16 | 0.00 | 3.87 | 0.02 | 0.00 | 12.28 | 1.11 | 0.00 | 3.86 | 0.02 | 0.00 |
| 12.30 | 1.09 | 0.00 | 3.85 | 0.02 | 0.00 | 12.32 | 1.08 | 0.00 | 3.84 | 0.02 | 0.00 |
| 12.34 | 1.08 | 0.00 | 3.83 | 0.02 | 0.00 | 12.36 | 1.09 | 0.00 | 3.82 | 0.02 | 0.00 |
| 12.38 | 1.11 | 0.00 | 3.81 | 0.02 | 0.00 | 12.40 | 1.13 | 0.00 | 3.80 | 0.02 | 0.00 |
| 12.42 | 1.17 | 0.00 | 3.79 | 0.02 | 0.00 | 12.44 | 1.17 | 0.00 | 3.78 | 0.02 | 0.00 |
| 12.46 | 1.14 | 0.00 | 3.77 | 0.02 | 0.00 | 12.48 | 1.16 | 0.00 | 3.76 | 0.02 | 0.00 |
| 12.50 | 1.19 | 0.00 | 3.75 | 0.02 | 0.00 | 12.52 | 1.18 | 0.00 | 3.74 | 0.02 | 0.00 |
| 12.54 | 1.15 | 0.00 | 3.73 | 0.02 | 0.00 | 12.56 | 1.13 | 0.00 | 3.72 | 0.02 | 0.00 |
| 12.58 | 2.00 | 0.00 | 3.71 | 0.02 | 0.00 | 12.60 | 1.10 | 0.00 | 3.70 | 0.02 | 0.00 |
| 12.62 | 1.06 | 0.00 | 3.69 | 0.02 | 0.00 | 12.64 | 1.00 | 0.00 | 3.68 | 0.02 | 0.00 |
| 12.66 | 0.97 | 0.03 | 3.67 | 0.02 | 0.00 | 12.68 | 0.95 | 0.05 | 3.66 | 0.02 | 0.00 |
| 12.70 | 0.99 | 0.01 | 3.65 | 0.02 | 0.00 | 12.72 | 1.04 | 0.00 | 3.64 | 0.02 | 0.00 |
| 12.74 | 1.09 | 0.00 | 3.63 | 0.02 | 0.00 | 12.76 | 1.17 | 0.00 | 3.62 | 0.02 | 0.00 |
| 12.78 | 1.28 | 0.00 | 3.61 | 0.02 | 0.00 | 12.80 | 1.36 | 0.00 | 3.60 | 0.02 | 0.00 |
| 12.82 | 1.36 | 0.00 | 3.59 | 0.02 | 0.00 | 12.84 | 2.00 | 0.00 | 3.58 | 0.02 | 0.00 |
| 12.86 | 2.00 | 0.00 | 3.57 | 0.02 | 0.00 | 12.88 | 1.07 | 0.00 | 3.56 | 0.02 | 0.00 |
| 12.90 | 0.97 | 0.03 | 3.55 | 0.02 | 0.00 | 12.92 | 0.93 | 0.07 | 3.54 | 0.02 | 0.00 |
| 12.94 | 0.93 | 0.07 | 3.53 | 0.02 | 0.00 | 12.96 | 0.94 | 0.06 | 3.52 | 0.02 | 0.00 |
| 12.98 | 0.95 | 0.05 | 3.51 | 0.02 | 0.00 | 13.00 | 0.98 | 0.02 | 3.50 | 0.02 | 0.00 |
| 13.02 | 1.02 | 0.00 | 3.49 | 0.02 | 0.00 | 13.04 | 1.07 | 0.00 | 3.48 | 0.02 | 0.00 |
| 13.06 | 1.16 | 0.00 | 3.47 | 0.02 | 0.00 | 13.08 | 1.24 | 0.00 | 3.46 | 0.02 | 0.00 |
| 13.10 | 1.28 | 0.00 | 3.45 | 0.02 | 0.00 | 13.12 | 1.27 | 0.00 | 3.44 | 0.02 | 0.00 |
| 13.14 | 2.00 | 0.00 | 3.43 | 0.02 | 0.00 | 13.16 | 1.14 | 0.00 | 3.42 | 0.02 | 0.00 |
| 13.18 | 1.06 | 0.00 | 3.41 | 0.02 | 0.00 | 13.20 | 0.99 | 0.01 | 3.40 | 0.02 | 0.00 |
| 13.22 | 0.95 | 0.05 | 3.39 | 0.02 | 0.00 | 13.24 | 0.94 | 0.06 | 3.38 | 0.02 | 0.00 |
| 13.26 | 0.95 | 0.05 | 3.37 | 0.02 | 0.00 | 13.28 | 0.99 | 0.01 | 3.36 | 0.02 | 0.00 |
| 13.30 | 0.99 | 0.01 | 3.35 | 0.02 | 0.00 | 13.32 | 1.01 | 0.00 | 3.34 | 0.02 | 0.00 |
| 13.34 | 1.02 | 0.00 | 3.33 | 0.02 | 0.00 | 13.36 | 1.04 | 0.00 | 3.32 | 0.02 | 0.00 |
| 13.38 | 1.09 | 0.00 | 3.31 | 0.02 | 0.00 | 13.40 | 1.16 | 0.00 | 3.30 | 0.02 | 0.00 |
| 13.42 | 1.21 | 0.00 | 3.29 | 0.02 | 0.00 | 13.44 | 1.23 | 0.00 | 3.28 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 13.46 | 2.00 | 0.00 | 3.27 | 0.02 | 0.00 | 13.48 | 2.00 | 0.00 | 3.26 | 0.02 | 0.00 |
| 13.50 | 2.00 | 0.00 | 3.25 | 0.02 | 0.00 | 13.52 | 2.00 | 0.00 | 3.24 | 0.02 | 0.00 |
| 13.54 | 1.14 | 0.00 | 3.23 | 0.02 | 0.00 | 13.56 | 1.13 | 0.00 | 3.22 | 0.02 | 0.00 |
| 13.58 | 1.16 | 0.00 | 3.21 | 0.02 | 0.00 | 13.60 | 1.19 | 0.00 | 3.20 | 0.02 | 0.00 |
| 13.62 | 1.22 | 0.00 | 3.19 | 0.02 | 0.00 | 13.64 | 2.00 | 0.00 | 3.18 | 0.02 | 0.00 |
| 13.66 | 2.00 | 0.00 | 3.17 | 0.02 | 0.00 | 13.68 | 2.00 | 0.00 | 3.16 | 0.02 | 0.00 |
| 13.70 | 1.26 | 0.00 | 3.15 | 0.02 | 0.00 | 13.72 | 2.00 | 0.00 | 3.14 | 0.02 | 0.00 |
| 13.74 | 2.00 | 0.00 | 3.13 | 0.02 | 0.00 | 13.76 | 2.00 | 0.00 | 3.12 | 0.02 | 0.00 |
| 13.78 | 2.00 | 0.00 | 3.11 | 0.02 | 0.00 | 13.80 | 2.00 | 0.00 | 3.10 | 0.02 | 0.00 |
| 13.82 | 2.00 | 0.00 | 3.09 | 0.02 | 0.00 | 13.84 | 2.00 | 0.00 | 3.08 | 0.02 | 0.00 |
| 13.86 | 1.09 | 0.00 | 3.07 | 0.02 | 0.00 | 13.88 | 1.11 | 0.00 | 3.06 | 0.02 | 0.00 |
| 13.90 | 1.10 | 0.00 | 3.05 | 0.02 | 0.00 | 13.92 | 1.13 | 0.00 | 3.04 | 0.02 | 0.00 |
| 13.94 | 1.15 | 0.00 | 3.03 | 0.02 | 0.00 | 13.96 | 1.16 | 0.00 | 3.02 | 0.02 | 0.00 |
| 13.98 | 1.16 | 0.00 | 3.01 | 0.02 | 0.00 | 14.00 | 2.00 | 0.00 | 3.00 | 0.02 | 0.00 |
| 14.02 | 2.00 | 0.00 | 2.99 | 0.02 | 0.00 | 14.04 | 2.00 | 0.00 | 2.98 | 0.02 | 0.00 |
| 14.06 | 2.00 | 0.00 | 2.97 | 0.02 | 0.00 | 14.08 | 2.00 | 0.00 | 2.96 | 0.02 | 0.00 |
| 14.10 | 2.00 | 0.00 | 2.95 | 0.02 | 0.00 | 14.12 | 2.00 | 0.00 | 2.94 | 0.02 | 0.00 |
| 14.14 | 2.00 | 0.00 | 2.93 | 0.02 | 0.00 | 14.16 | 2.00 | 0.00 | 2.92 | 0.02 | 0.00 |
| 14.18 | 2.00 | 0.00 | 2.91 | 0.02 | 0.00 | 14.20 | 2.00 | 0.00 | 2.90 | 0.02 | 0.00 |
| 14.22 | 2.00 | 0.00 | 2.89 | 0.02 | 0.00 | 14.24 | 2.00 | 0.00 | 2.88 | 0.02 | 0.00 |
| 14.26 | 2.00 | 0.00 | 2.87 | 0.02 | 0.00 | 14.28 | 2.00 | 0.00 | 2.86 | 0.02 | 0.00 |
| 14.30 | 2.00 | 0.00 | 2.85 | 0.02 | 0.00 | 14.32 | 2.00 | 0.00 | 2.84 | 0.02 | 0.00 |
| 14.34 | 2.00 | 0.00 | 2.83 | 0.02 | 0.00 | 14.36 | 2.00 | 0.00 | 2.82 | 0.02 | 0.00 |
| 14.38 | 2.00 | 0.00 | 2.81 | 0.02 | 0.00 | 14.40 | 2.00 | 0.00 | 2.80 | 0.02 | 0.00 |
| 14.42 | 2.00 | 0.00 | 2.79 | 0.02 | 0.00 | 14.44 | 2.00 | 0.00 | 2.78 | 0.02 | 0.00 |
| 14.46 | 2.00 | 0.00 | 2.77 | 0.02 | 0.00 | 14.48 | 2.00 | 0.00 | 2.76 | 0.02 | 0.00 |
| 14.50 | 2.00 | 0.00 | 2.75 | 0.02 | 0.00 | 14.52 | 2.00 | 0.00 | 2.74 | 0.02 | 0.00 |
| 14.54 | 2.00 | 0.00 | 2.73 | 0.02 | 0.00 | 14.56 | 2.00 | 0.00 | 2.72 | 0.02 | 0.00 |
| 14.58 | 2.00 | 0.00 | 2.71 | 0.02 | 0.00 | 14.60 | 2.00 | 0.00 | 2.70 | 0.02 | 0.00 |
| 14.62 | 2.00 | 0.00 | 2.69 | 0.02 | 0.00 | 14.64 | 2.00 | 0.00 | 2.68 | 0.02 | 0.00 |
| 14.66 | 2.00 | 0.00 | 2.67 | 0.02 | 0.00 | 14.68 | 2.00 | 0.00 | 2.66 | 0.02 | 0.00 |
| 14.70 | 2.00 | 0.00 | 2.65 | 0.02 | 0.00 | 14.72 | 2.00 | 0.00 | 2.64 | 0.02 | 0.00 |
| 14.74 | 2.00 | 0.00 | 2.63 | 0.02 | 0.00 | 14.76 | 2.00 | 0.00 | 2.62 | 0.02 | 0.00 |
| 14.78 | 2.00 | 0.00 | 2.61 | 0.02 | 0.00 | 14.80 | 2.00 | 0.00 | 2.60 | 0.02 | 0.00 |
| 14.82 | 2.00 | 0.00 | 2.59 | 0.02 | 0.00 | 14.84 | 2.00 | 0.00 | 2.58 | 0.02 | 0.00 |
| 14.86 | 2.00 | 0.00 | 2.57 | 0.02 | 0.00 | 14.88 | 2.00 | 0.00 | 2.56 | 0.02 | 0.00 |
| 14.90 | 2.00 | 0.00 | 2.55 | 0.02 | 0.00 | 14.92 | 2.00 | 0.00 | 2.54 | 0.02 | 0.00 |
| 14.94 | 2.00 | 0.00 | 2.53 | 0.02 | 0.00 | 14.96 | 2.00 | 0.00 | 2.52 | 0.02 | 0.00 |
| 14.98 | 2.00 | 0.00 | 2.51 | 0.02 | 0.00 | 15.00 | 0.90 | 0.10 | 2.50 | 0.02 | 0.00 |
| 15.02 | 0.88 | 0.12 | 2.49 | 0.02 | 0.01 | 15.04 | 0.89 | 0.11 | 2.48 | 0.02 | 0.01 |
| 15.06 | 0.90 | 0.10 | 2.47 | 0.02 | 0.00 | 15.08 | 0.93 | 0.07 | 2.46 | 0.02 | 0.00 |
| 15.10 | 0.93 | 0.07 | 2.45 | 0.02 | 0.00 | 15.12 | 0.93 | 0.07 | 2.44 | 0.02 | 0.00 |
| 15.14 | 0.93 | 0.07 | 2.43 | 0.02 | 0.00 | 15.16 | 2.00 | 0.00 | 2.42 | 0.02 | 0.00 |
| 15.18 | 2.00 | 0.00 | 2.41 | 0.02 | 0.00 | 15.20 | 2.00 | 0.00 | 2.40 | 0.02 | 0.00 |
| 15.22 | 2.00 | 0.00 | 2.39 | 0.02 | 0.00 | 15.24 | 2.00 | 0.00 | 2.38 | 0.02 | 0.00 |
| 15.26 | 2.00 | 0.00 | 2.37 | 0.02 | 0.00 | 15.28 | 2.00 | 0.00 | 2.36 | 0.02 | 0.00 |
| 15.30 | 2.00 | 0.00 | 2.35 | 0.02 | 0.00 | 15.32 | 2.00 | 0.00 | 2.34 | 0.02 | 0.00 |
| 15.34 | 2.00 | 0.00 | 2.33 | 0.02 | 0.00 | 15.36 | 2.00 | 0.00 | 2.32 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 15.38 | 2.00 | 0.00 | 2.31 | 0.02 | 0.00 | 15.40 | 2.00 | 0.00 | 2.30 | 0.02 | 0.00 |
| 15.42 | 2.00 | 0.00 | 2.29 | 0.02 | 0.00 | 15.44 | 2.00 | 0.00 | 2.28 | 0.02 | 0.00 |
| 15.46 | 2.00 | 0.00 | 2.27 | 0.02 | 0.00 | 15.48 | 2.00 | 0.00 | 2.26 | 0.02 | 0.00 |
| 15.50 | 2.00 | 0.00 | 2.25 | 0.02 | 0.00 | 15.52 | 2.00 | 0.00 | 2.24 | 0.02 | 0.00 |
| 15.54 | 2.00 | 0.00 | 2.23 | 0.02 | 0.00 | 15.56 | 2.00 | 0.00 | 2.22 | 0.02 | 0.00 |
| 15.58 | 2.00 | 0.00 | 2.21 | 0.02 | 0.00 | 15.60 | 2.00 | 0.00 | 2.20 | 0.02 | 0.00 |
| 15.62 | 2.00 | 0.00 | 2.19 | 0.02 | 0.00 | 15.64 | 2.00 | 0.00 | 2.18 | 0.02 | 0.00 |
| 15.66 | 2.00 | 0.00 | 2.17 | 0.02 | 0.00 | 15.68 | 2.00 | 0.00 | 2.16 | 0.02 | 0.00 |
| 15.70 | 2.00 | 0.00 | 2.15 | 0.02 | 0.00 | 15.72 | 2.00 | 0.00 | 2.14 | 0.02 | 0.00 |
| 15.74 | 2.00 | 0.00 | 2.13 | 0.02 | 0.00 | 15.76 | 2.00 | 0.00 | 2.12 | 0.02 | 0.00 |
| 15.78 | 2.00 | 0.00 | 2.11 | 0.02 | 0.00 | 15.80 | 2.00 | 0.00 | 2.10 | 0.02 | 0.00 |
| 15.82 | 2.00 | 0.00 | 2.09 | 0.02 | 0.00 | 15.84 | 2.00 | 0.00 | 2.08 | 0.02 | 0.00 |
| 15.86 | 2.00 | 0.00 | 2.07 | 0.02 | 0.00 | 15.88 | 2.00 | 0.00 | 2.06 | 0.02 | 0.00 |
| 15.90 | 2.00 | 0.00 | 2.05 | 0.02 | 0.00 | 15.92 | 2.00 | 0.00 | 2.04 | 0.02 | 0.00 |
| 15.94 | 2.00 | 0.00 | 2.03 | 0.02 | 0.00 | 15.96 | 2.00 | 0.00 | 2.02 | 0.02 | 0.00 |
| 15.98 | 2.00 | 0.00 | 2.01 | 0.02 | 0.00 | 16.00 | 2.00 | 0.00 | 2.00 | 0.02 | 0.00 |
| 16.02 | 2.00 | 0.00 | 1.99 | 0.02 | 0.00 | 16.04 | 2.00 | 0.00 | 1.98 | 0.02 | 0.00 |
| 16.06 | 2.00 | 0.00 | 1.97 | 0.02 | 0.00 | 16.08 | 2.00 | 0.00 | 1.96 | 0.02 | 0.00 |
| 16.10 | 2.00 | 0.00 | 1.95 | 0.02 | 0.00 | 16.12 | 2.00 | 0.00 | 1.94 | 0.02 | 0.00 |
| 16.14 | 2.00 | 0.00 | 1.93 | 0.02 | 0.00 | 16.16 | 2.00 | 0.00 | 1.92 | 0.02 | 0.00 |
| 16.18 | 2.00 | 0.00 | 1.91 | 0.02 | 0.00 | 16.20 | 2.00 | 0.00 | 1.90 | 0.02 | 0.00 |
| 16.22 | 2.00 | 0.00 | 1.89 | 0.02 | 0.00 | 16.24 | 2.00 | 0.00 | 1.88 | 0.02 | 0.00 |
| 16.26 | 2.00 | 0.00 | 1.87 | 0.02 | 0.00 | 16.28 | 2.00 | 0.00 | 1.86 | 0.02 | 0.00 |
| 16.30 | 2.00 | 0.00 | 1.85 | 0.02 | 0.00 | 16.32 | 2.00 | 0.00 | 1.84 | 0.02 | 0.00 |
| 16.34 | 2.00 | 0.00 | 1.83 | 0.02 | 0.00 | 16.36 | 2.00 | 0.00 | 1.82 | 0.02 | 0.00 |
| 16.38 | 2.00 | 0.00 | 1.81 | 0.02 | 0.00 | 16.40 | 2.00 | 0.00 | 1.80 | 0.02 | 0.00 |
| 16.42 | 2.00 | 0.00 | 1.79 | 0.02 | 0.00 | 16.44 | 2.00 | 0.00 | 1.78 | 0.02 | 0.00 |
| 16.46 | 2.00 | 0.00 | 1.77 | 0.02 | 0.00 | 16.48 | 2.00 | 0.00 | 1.76 | 0.02 | 0.00 |
| 16.50 | 2.00 | 0.00 | 1.75 | 0.02 | 0.00 | 16.52 | 2.00 | 0.00 | 1.74 | 0.02 | 0.00 |
| 16.54 | 2.00 | 0.00 | 1.73 | 0.02 | 0.00 | 16.56 | 2.00 | 0.00 | 1.72 | 0.02 | 0.00 |
| 16.58 | 2.00 | 0.00 | 1.71 | 0.02 | 0.00 | 16.60 | 2.00 | 0.00 | 1.70 | 0.02 | 0.00 |
| 16.62 | 2.00 | 0.00 | 1.69 | 0.02 | 0.00 | 16.64 | 2.00 | 0.00 | 1.68 | 0.02 | 0.00 |
| 16.66 | 2.00 | 0.00 | 1.67 | 0.02 | 0.00 | 16.68 | 2.00 | 0.00 | 1.66 | 0.02 | 0.00 |
| 16.70 | 2.00 | 0.00 | 1.65 | 0.02 | 0.00 | 16.72 | 2.00 | 0.00 | 1.64 | 0.02 | 0.00 |
| 16.74 | 2.00 | 0.00 | 1.63 | 0.02 | 0.00 | 16.76 | 2.00 | 0.00 | 1.62 | 0.02 | 0.00 |
| 16.78 | 2.00 | 0.00 | 1.61 | 0.02 | 0.00 | 16.80 | 2.00 | 0.00 | 1.60 | 0.02 | 0.00 |
| 16.82 | 2.00 | 0.00 | 1.59 | 0.02 | 0.00 | 16.84 | 2.00 | 0.00 | 1.58 | 0.02 | 0.00 |
| 16.86 | 2.00 | 0.00 | 1.57 | 0.02 | 0.00 | 16.88 | 2.00 | 0.00 | 1.56 | 0.02 | 0.00 |
| 16.90 | 2.00 | 0.00 | 1.55 | 0.02 | 0.00 | 16.92 | 1.01 | 0.00 | 1.54 | 0.02 | 0.00 |
| 16.94 | 1.01 | 0.00 | 1.53 | 0.02 | 0.00 | 16.96 | 1.01 | 0.00 | 1.52 | 0.02 | 0.00 |
| 16.98 | 1.01 | 0.00 | 1.51 | 0.02 | 0.00 | 17.00 | 1.00 | 0.00 | 1.50 | 0.02 | 0.00 |
| 17.02 | 1.00 | 0.00 | 1.49 | 0.02 | 0.00 | 17.04 | 1.02 | 0.00 | 1.48 | 0.02 | 0.00 |
| 17.06 | 1.06 | 0.00 | 1.47 | 0.02 | 0.00 | 17.08 | 1.13 | 0.00 | 1.46 | 0.02 | 0.00 |
| 17.10 | 2.00 | 0.00 | 1.45 | 0.02 | 0.00 | 17.12 | 2.00 | 0.00 | 1.44 | 0.02 | 0.00 |
| 17.14 | 2.00 | 0.00 | 1.43 | 0.02 | 0.00 | 17.16 | 2.00 | 0.00 | 1.42 | 0.02 | 0.00 |
| 17.18 | 2.00 | 0.00 | 1.41 | 0.02 | 0.00 | 17.20 | 2.00 | 0.00 | 1.40 | 0.02 | 0.00 |
| 17.22 | 2.00 | 0.00 | 1.39 | 0.02 | 0.00 | 17.24 | 2.00 | 0.00 | 1.38 | 0.02 | 0.00 |
| 17.26 | 2.00 | 0.00 | 1.37 | 0.02 | 0.00 | 17.28 | 2.00 | 0.00 | 1.36 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 17.30 | 2.00 | 0.00 | 1.35 | 0.02 | 0.00 | 17.32 | 2.00 | 0.00 | 1.34 | 0.02 | 0.00 |
| 17.34 | 2.00 | 0.00 | 1.33 | 0.02 | 0.00 | 17.36 | 2.00 | 0.00 | 1.32 | 0.02 | 0.00 |
| 17.38 | 2.00 | 0.00 | 1.31 | 0.02 | 0.00 | 17.40 | 2.00 | 0.00 | 1.30 | 0.02 | 0.00 |
| 17.42 | 2.00 | 0.00 | 1.29 | 0.02 | 0.00 | 17.44 | 2.00 | 0.00 | 1.28 | 0.02 | 0.00 |
| 17.46 | 2.00 | 0.00 | 1.27 | 0.02 | 0.00 | 17.48 | 2.00 | 0.00 | 1.26 | 0.02 | 0.00 |
| 17.50 | 2.00 | 0.00 | 1.25 | 0.02 | 0.00 | 17.52 | 2.00 | 0.00 | 1.24 | 0.02 | 0.00 |
| 17.54 | 2.00 | 0.00 | 1.23 | 0.02 | 0.00 | 17.56 | 2.00 | 0.00 | 1.22 | 0.02 | 0.00 |
| 17.58 | 2.00 | 0.00 | 1.21 | 0.02 | 0.00 | 17.60 | 2.00 | 0.00 | 1.20 | 0.02 | 0.00 |
| 17.62 | 2.00 | 0.00 | 1.19 | 0.02 | 0.00 | 17.64 | 2.00 | 0.00 | 1.18 | 0.02 | 0.00 |
| 17.66 | 2.00 | 0.00 | 1.17 | 0.02 | 0.00 | 17.68 | 2.00 | 0.00 | 1.16 | 0.02 | 0.00 |
| 17.70 | 2.00 | 0.00 | 1.15 | 0.02 | 0.00 | 17.72 | 2.00 | 0.00 | 1.14 | 0.02 | 0.00 |
| 17.74 | 2.00 | 0.00 | 1.13 | 0.02 | 0.00 | 17.76 | 2.00 | 0.00 | 1.12 | 0.02 | 0.00 |
| 17.78 | 2.00 | 0.00 | 1.11 | 0.02 | 0.00 | 17.80 | 2.00 | 0.00 | 1.10 | 0.02 | 0.00 |
| 17.82 | 2.00 | 0.00 | 1.09 | 0.02 | 0.00 | 17.84 | 2.00 | 0.00 | 1.08 | 0.02 | 0.00 |
| 17.86 | 2.00 | 0.00 | 1.07 | 0.02 | 0.00 | 17.88 | 2.00 | 0.00 | 1.06 | 0.02 | 0.00 |
| 17.90 | 2.00 | 0.00 | 1.05 | 0.02 | 0.00 | 17.92 | 2.00 | 0.00 | 1.04 | 0.02 | 0.00 |
| 17.94 | 2.00 | 0.00 | 1.03 | 0.02 | 0.00 | 17.96 | 2.00 | 0.00 | 1.02 | 0.02 | 0.00 |
| 17.98 | 2.00 | 0.00 | 1.01 | 0.02 | 0.00 | 18.00 | 2.00 | 0.00 | 1.00 | 0.02 | 0.00 |
| 18.02 | 2.00 | 0.00 | 0.99 | 0.02 | 0.00 | 18.04 | 2.00 | 0.00 | 0.98 | 0.02 | 0.00 |
| 18.06 | 2.00 | 0.00 | 0.97 | 0.02 | 0.00 | 18.08 | 2.00 | 0.00 | 0.96 | 0.02 | 0.00 |
| 18.10 | 2.00 | 0.00 | 0.95 | 0.02 | 0.00 | 18.12 | 2.00 | 0.00 | 0.94 | 0.02 | 0.00 |
| 18.14 | 2.00 | 0.00 | 0.93 | 0.02 | 0.00 | 18.16 | 2.00 | 0.00 | 0.92 | 0.02 | 0.00 |
| 18.18 | 2.00 | 0.00 | 0.91 | 0.02 | 0.00 | 18.20 | 2.00 | 0.00 | 0.90 | 0.02 | 0.00 |
| 18.22 | 2.00 | 0.00 | 0.89 | 0.02 | 0.00 | 18.24 | 2.00 | 0.00 | 0.88 | 0.02 | 0.00 |
| 18.26 | 2.00 | 0.00 | 0.87 | 0.02 | 0.00 | 18.28 | 2.00 | 0.00 | 0.86 | 0.02 | 0.00 |
| 18.30 | 2.00 | 0.00 | 0.85 | 0.02 | 0.00 | 18.32 | 2.00 | 0.00 | 0.84 | 0.02 | 0.00 |
| 18.34 | 2.00 | 0.00 | 0.83 | 0.02 | 0.00 | 18.36 | 2.00 | 0.00 | 0.82 | 0.02 | 0.00 |
| 18.38 | 2.00 | 0.00 | 0.81 | 0.02 | 0.00 | 18.40 | 2.00 | 0.00 | 0.80 | 0.02 | 0.00 |
| 18.42 | 2.00 | 0.00 | 0.79 | 0.02 | 0.00 | 18.44 | 2.00 | 0.00 | 0.78 | 0.02 | 0.00 |
| 18.46 | 2.00 | 0.00 | 0.77 | 0.02 | 0.00 | 18.48 | 2.00 | 0.00 | 0.76 | 0.02 | 0.00 |
| 18.50 | 2.00 | 0.00 | 0.75 | 0.02 | 0.00 | 18.52 | 2.00 | 0.00 | 0.74 | 0.02 | 0.00 |
| 18.54 | 2.00 | 0.00 | 0.73 | 0.02 | 0.00 | 18.56 | 2.00 | 0.00 | 0.72 | 0.02 | 0.00 |
| 18.58 | 2.00 | 0.00 | 0.71 | 0.02 | 0.00 | 18.60 | 2.00 | 0.00 | 0.70 | 0.02 | 0.00 |
| 18.62 | 2.00 | 0.00 | 0.69 | 0.02 | 0.00 | 18.64 | 2.00 | 0.00 | 0.68 | 0.02 | 0.00 |
| 18.66 | 2.00 | 0.00 | 0.67 | 0.02 | 0.00 | 18.68 | 2.00 | 0.00 | 0.66 | 0.02 | 0.00 |
| 18.70 | 2.00 | 0.00 | 0.65 | 0.02 | 0.00 | 18.72 | 2.00 | 0.00 | 0.64 | 0.02 | 0.00 |
| 18.74 | 2.00 | 0.00 | 0.63 | 0.02 | 0.00 | 18.76 | 2.00 | 0.00 | 0.62 | 0.02 | 0.00 |
| 18.78 | 2.00 | 0.00 | 0.61 | 0.02 | 0.00 | 18.80 | 2.00 | 0.00 | 0.60 | 0.02 | 0.00 |
| 18.82 | 2.00 | 0.00 | 0.59 | 0.02 | 0.00 | 18.84 | 2.00 | 0.00 | 0.58 | 0.02 | 0.00 |
| 18.86 | 2.00 | 0.00 | 0.57 | 0.02 | 0.00 | 18.88 | 2.00 | 0.00 | 0.56 | 0.02 | 0.00 |
| 18.90 | 2.00 | 0.00 | 0.55 | 0.02 | 0.00 | 18.92 | 2.00 | 0.00 | 0.54 | 0.02 | 0.00 |
| 18.94 | 2.00 | 0.00 | 0.53 | 0.02 | 0.00 | 18.96 | 2.00 | 0.00 | 0.52 | 0.02 | 0.00 |
| 18.98 | 2.00 | 0.00 | 0.51 | 0.02 | 0.00 | 19.00 | 2.00 | 0.00 | 0.50 | 0.02 | 0.00 |
| 19.02 | 2.00 | 0.00 | 0.49 | 0.02 | 0.00 | 19.04 | 2.00 | 0.00 | 0.48 | 0.02 | 0.00 |
| 19.06 | 2.00 | 0.00 | 0.47 | 0.02 | 0.00 | 19.08 | 2.00 | 0.00 | 0.46 | 0.02 | 0.00 |
| 19.10 | 2.00 | 0.00 | 0.45 | 0.02 | 0.00 | 19.12 | 2.00 | 0.00 | 0.44 | 0.02 | 0.00 |
| 19.14 | 2.00 | 0.00 | 0.43 | 0.02 | 0.00 | 19.16 | 2.00 | 0.00 | 0.42 | 0.02 | 0.00 |
| 19.18 | 2.00 | 0.00 | 0.41 | 0.02 | 0.00 | 19.20 | 2.00 | 0.00 | 0.40 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 19.22 | 2.00 | 0.00 | 0.39 | 0.02 | 0.00 | 19.24 | 2.00 | 0.00 | 0.38 | 0.02 | 0.00 |
| 19.26 | 2.00 | 0.00 | 0.37 | 0.02 | 0.00 | 19.28 | 2.00 | 0.00 | 0.36 | 0.02 | 0.00 |
| 19.30 | 2.00 | 0.00 | 0.35 | 0.02 | 0.00 | 19.32 | 2.00 | 0.00 | 0.34 | 0.02 | 0.00 |
| 19.34 | 2.00 | 0.00 | 0.33 | 0.02 | 0.00 | 19.36 | 2.00 | 0.00 | 0.32 | 0.02 | 0.00 |
| 19.38 | 2.00 | 0.00 | 0.31 | 0.02 | 0.00 | 19.40 | 2.00 | 0.00 | 0.30 | 0.02 | 0.00 |
| 19.42 | 2.00 | 0.00 | 0.29 | 0.02 | 0.00 | 19.44 | 2.00 | 0.00 | 0.28 | 0.02 | 0.00 |
| 19.46 | 2.00 | 0.00 | 0.27 | 0.02 | 0.00 | 19.48 | 2.00 | 0.00 | 0.26 | 0.02 | 0.00 |
| 19.50 | 2.00 | 0.00 | 0.25 | 0.02 | 0.00 | 19.52 | 2.00 | 0.00 | 0.24 | 0.02 | 0.00 |
| 19.54 | 2.00 | 0.00 | 0.23 | 0.02 | 0.00 | 19.56 | 2.00 | 0.00 | 0.22 | 0.02 | 0.00 |
| 19.58 | 2.00 | 0.00 | 0.21 | 0.02 | 0.00 | 19.60 | 2.00 | 0.00 | 0.20 | 0.02 | 0.00 |
| 19.62 | 2.00 | 0.00 | 0.19 | 0.02 | 0.00 | 19.64 | 2.00 | 0.00 | 0.18 | 0.02 | 0.00 |
| 19.66 | 2.00 | 0.00 | 0.17 | 0.02 | 0.00 | 19.68 | 2.00 | 0.00 | 0.16 | 0.02 | 0.00 |
| 19.70 | 2.00 | 0.00 | 0.15 | 0.02 | 0.00 | 19.72 | 2.00 | 0.00 | 0.14 | 0.02 | 0.00 |
| 19.74 | 2.00 | 0.00 | 0.13 | 0.02 | 0.00 | 19.76 | 2.00 | 0.00 | 0.12 | 0.02 | 0.00 |
| 19.78 | 2.00 | 0.00 | 0.11 | 0.02 | 0.00 | 19.80 | 2.00 | 0.00 | 0.10 | 0.02 | 0.00 |
| 19.82 | 2.00 | 0.00 | 0.09 | 0.02 | 0.00 | 19.84 | 2.00 | 0.00 | 0.08 | 0.02 | 0.00 |
| 19.86 | 2.00 | 0.00 | 0.07 | 0.02 | 0.00 | 19.88 | 2.00 | 0.00 | 0.06 | 0.02 | 0.00 |

Overall liquefaction potential: 0.64

LPI = 0.00 - Liquefaction risk very low

LPI between 0.00 and 5.00 - Liquefaction risk low

LPI between 5.00 and 15.00 - Liquefaction risk high

LPI > 15.00 - Liquefaction risk very high

Abbreviations

FS: Calculated factor of safety for test point

F_L: 1 - FSw_z: Function value of the extend of soil liquefaction according to depthd_z: Layer thickness (m)

LPI: Liquefaction potential index value for test point

LIQUEFACTION ANALYSIS REPORT

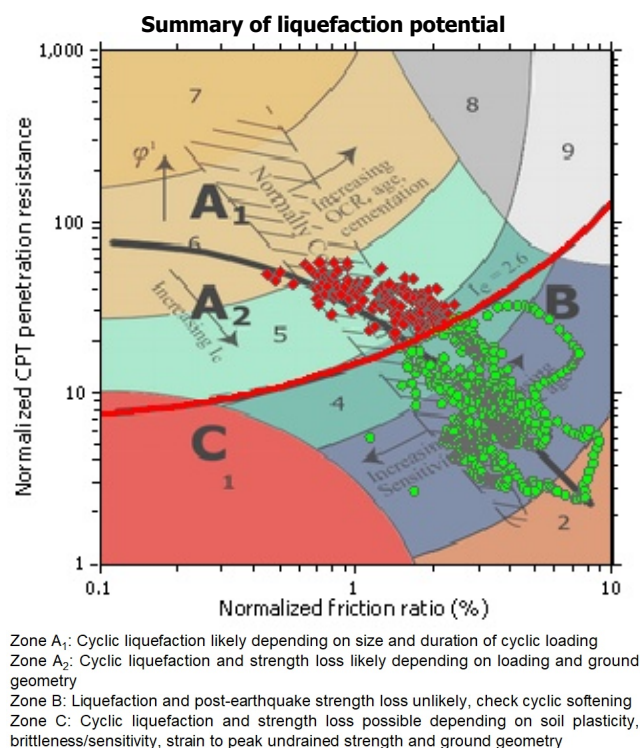
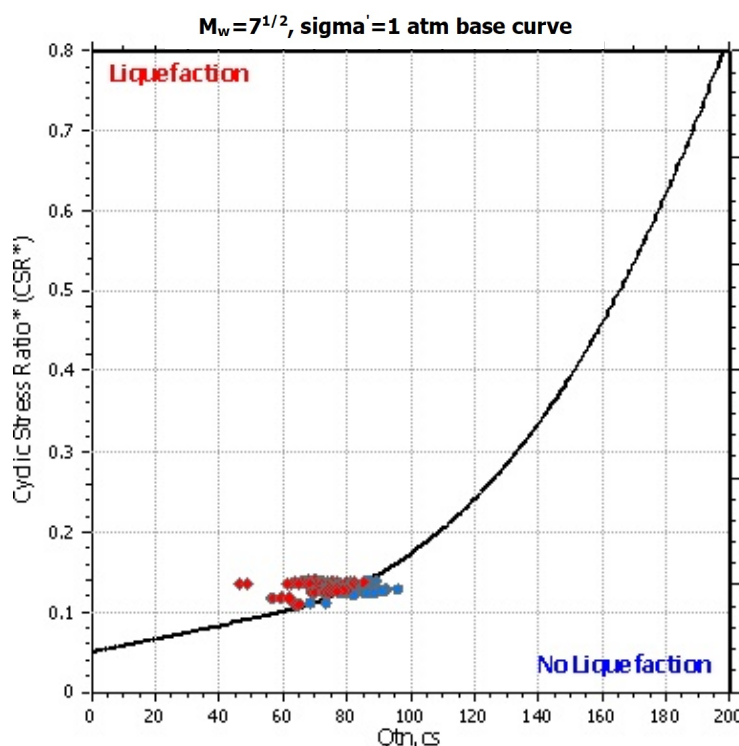
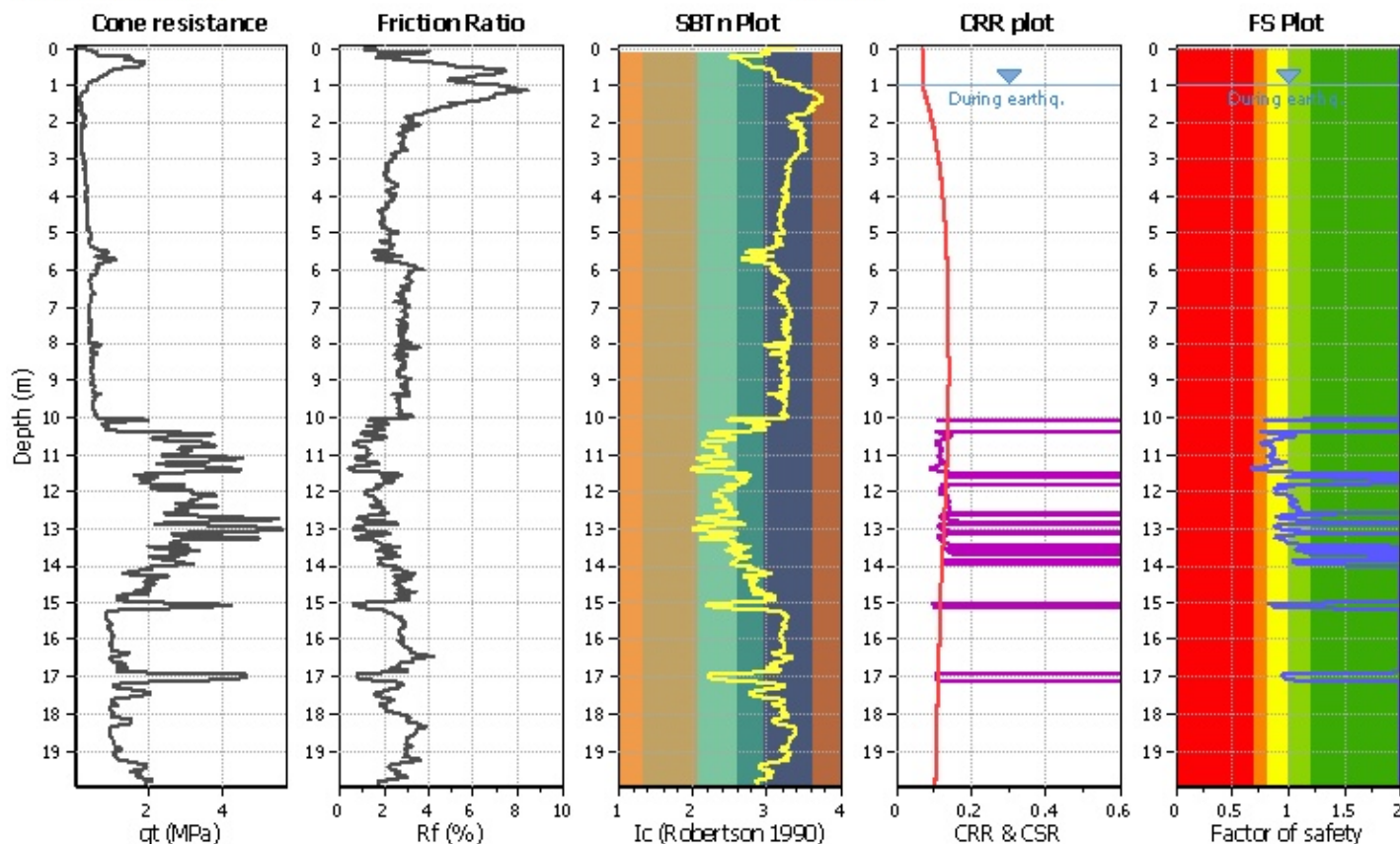
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Location :

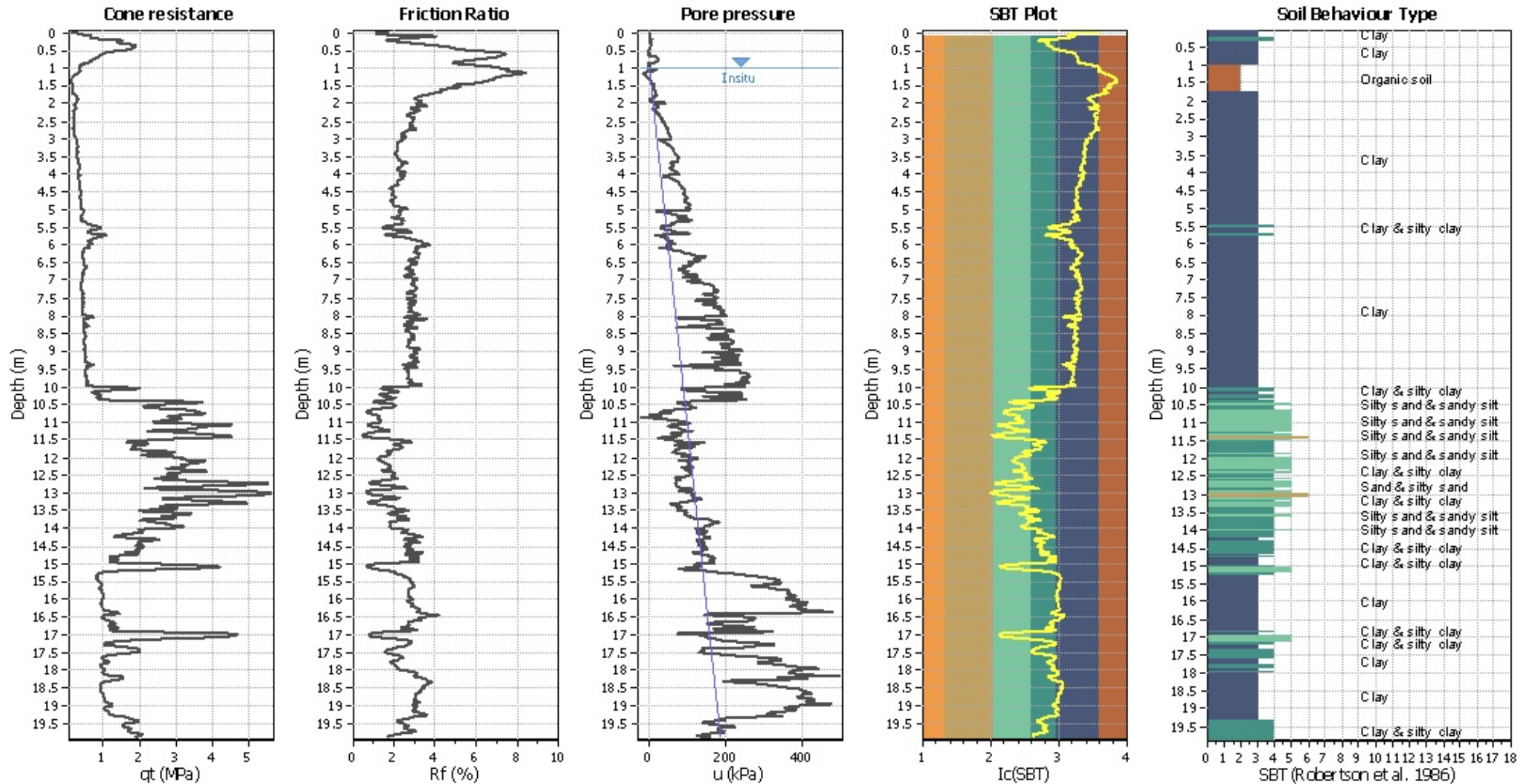
CPT file : CPTU3

Input parameters and analysis data

| | | | | | | | |
|------------------------------|-------------------|---------------------------|--------------|-------------------------|-----|----------------------|--------------|
| Analysis method: | NCEER (1998) | G.W.T. (in-situ): | 1.00 m | Use fill: | No | Clay like behavior | |
| Fines correction method: | NCEER (1998) | G.W.T. (earthq.): | 1.00 m | Fill height: | N/A | applied: | Sands only |
| Points to test: | Based on Ic value | Average results interval: | 3 | Fill weight: | N/A | Limit depth applied: | No |
| Earthquake magnitude M_w : | 6.14 | Ic cut-off value: | 2.60 | Trans. detect. applied: | No | Limit depth: | N/A |
| Peak ground acceleration: | 0.17 | Unit weight calculation: | Based on SBT | K_0 applied: | Yes | MSF method: | Method based |



CPT basic interpretation plo



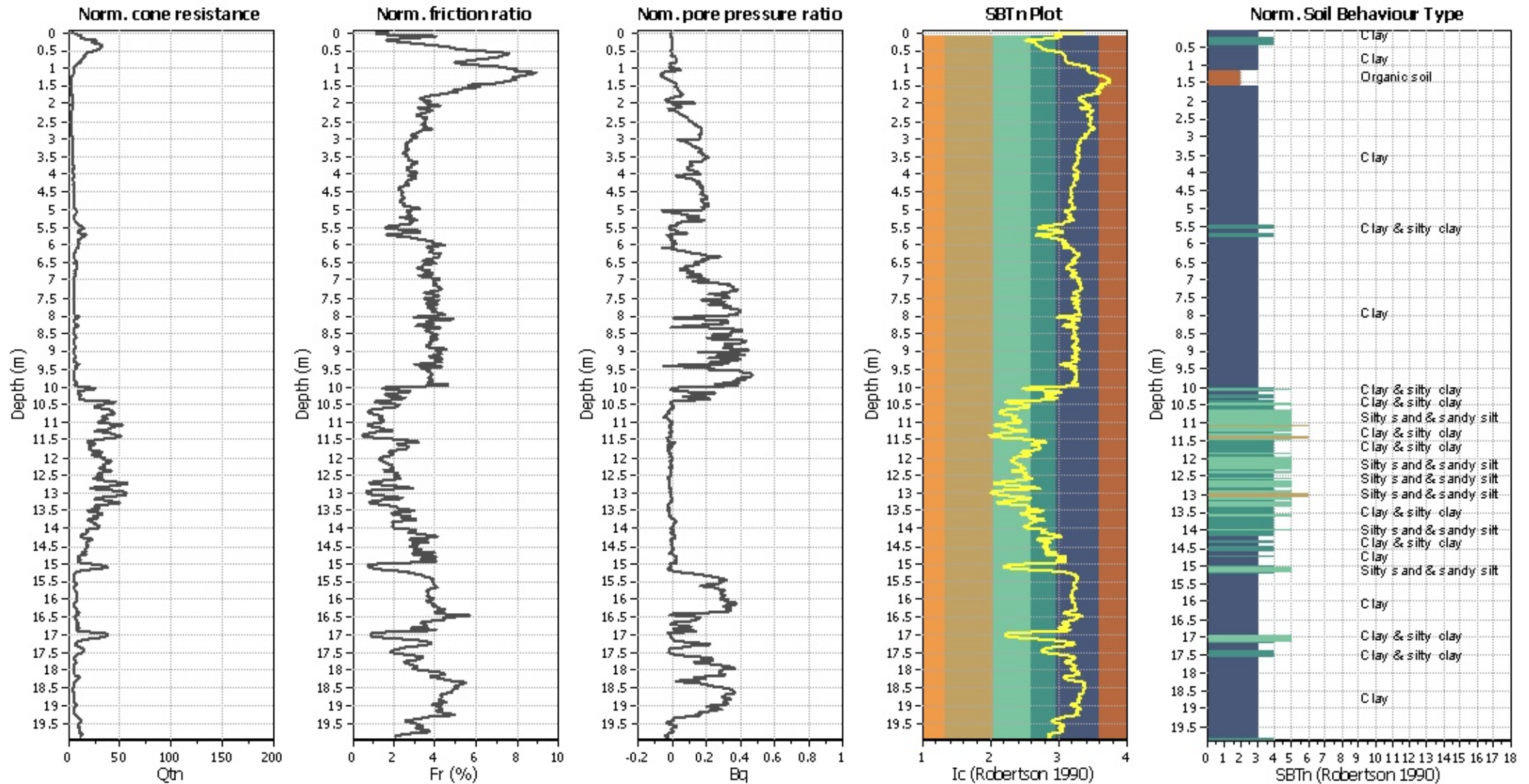
Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 6.14 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

SBT legend

| | | |
|---------------------------|-----------------------------|----------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty | 7. Gravely sand to sand |
| 2. Organic material | 5. Silty sand to sandy silt | 8. Very stiff sand to |
| 3. Clay to silty clay | 6. Clean sand to silty sand | 9. Very stiff fine grained |

CPT basic interpretation plots (normaliz



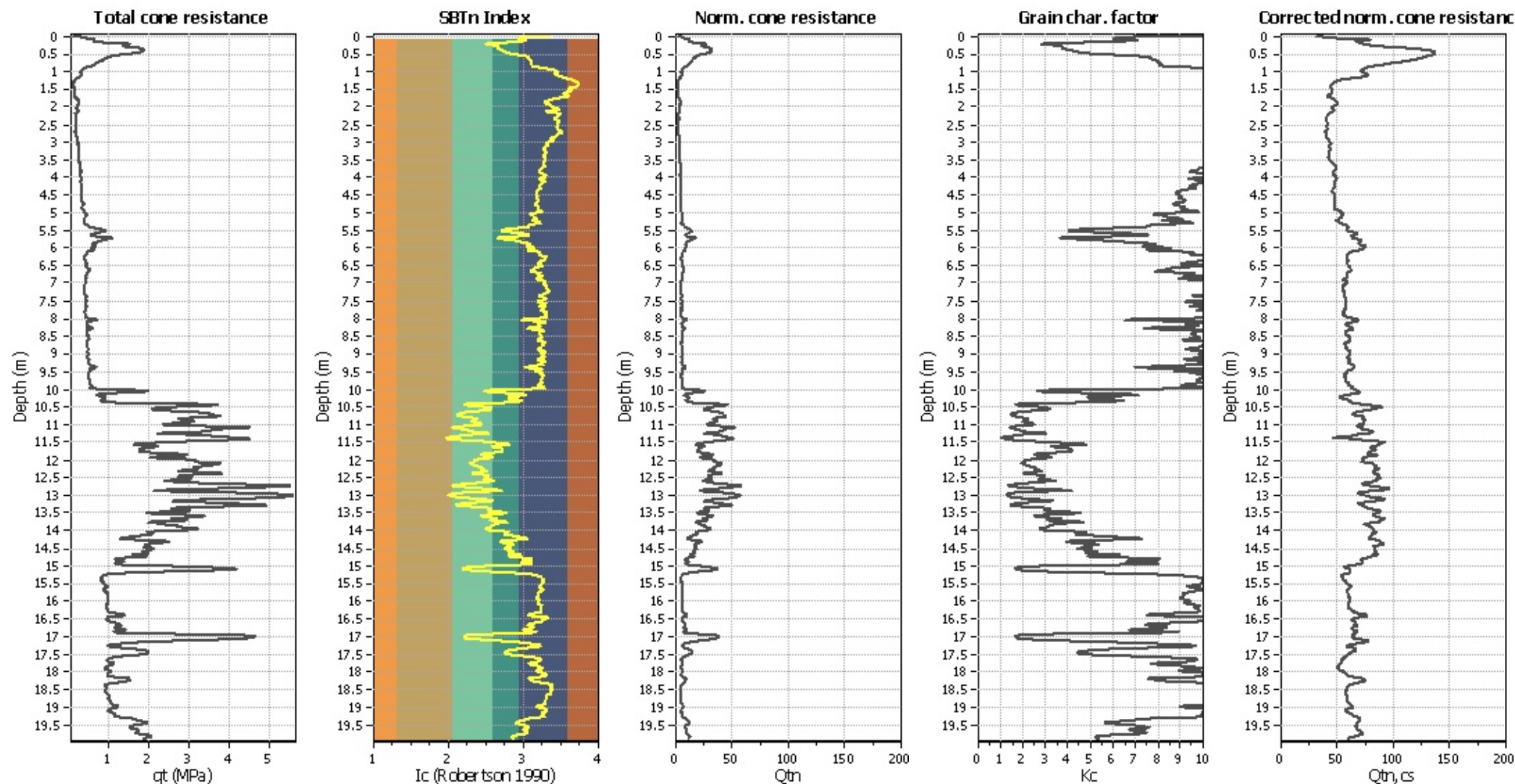
Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 6.14 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

SBTn legend

| | | |
|---------------------------|-----------------------------|----------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty | 7. Gravely sand to sand |
| 2. Organic material | 5. Silty sand to sandy silt | 8. Very stiff sand to |
| 3. Clay to silty clay | 6. Clean sand to silty sand | 9. Very stiff fine grained |

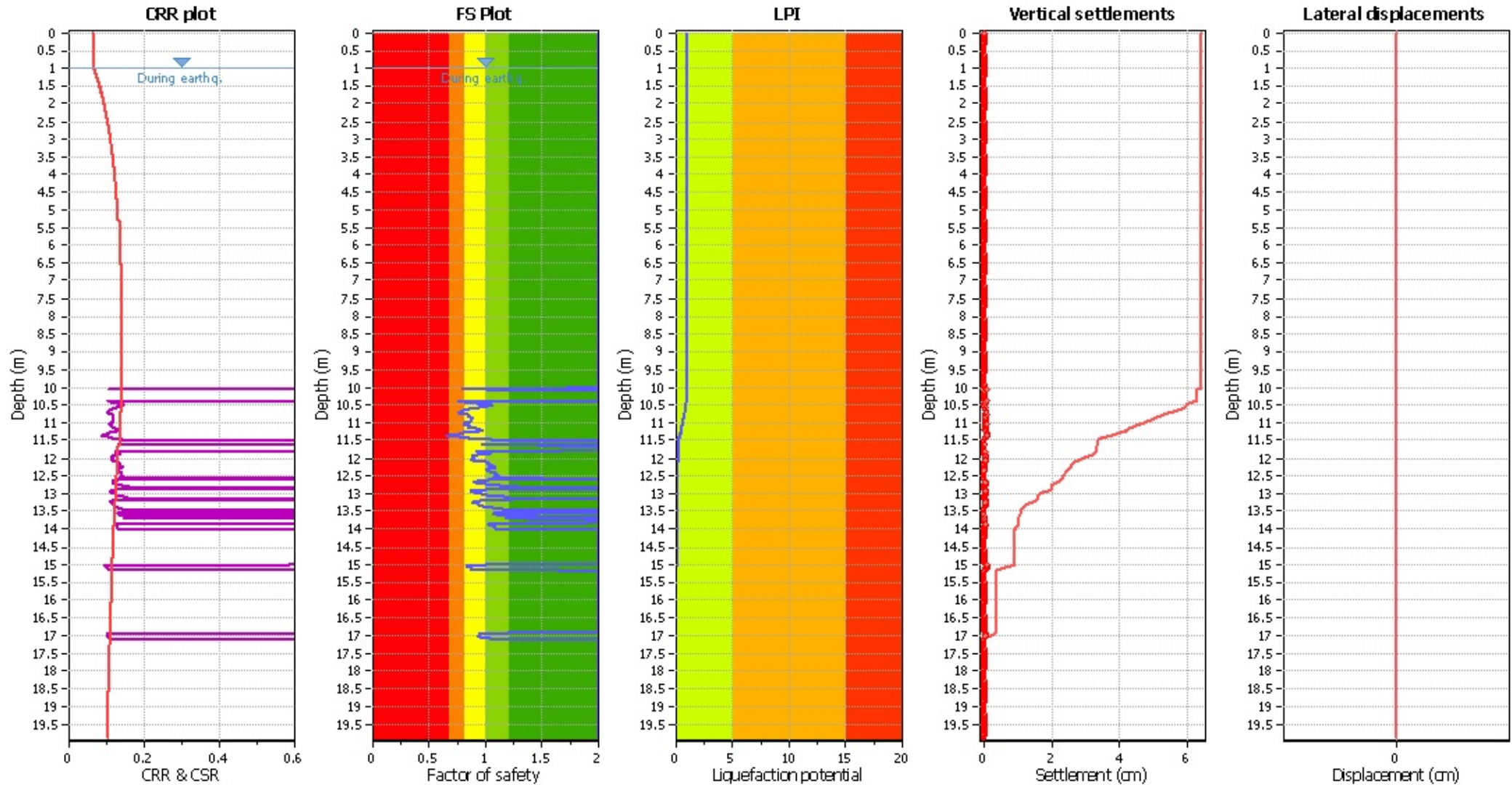
Liquefaction analysis overall plots (intermediate res)



Input parameters and analysis data

| | | | | | |
|--------------------------------|-------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 6.14 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

Liquefaction analysis overall plot



Input parameters and analysis data

| | | | | | |
|--------------------------------|-------------------|---------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (earthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 6.14 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

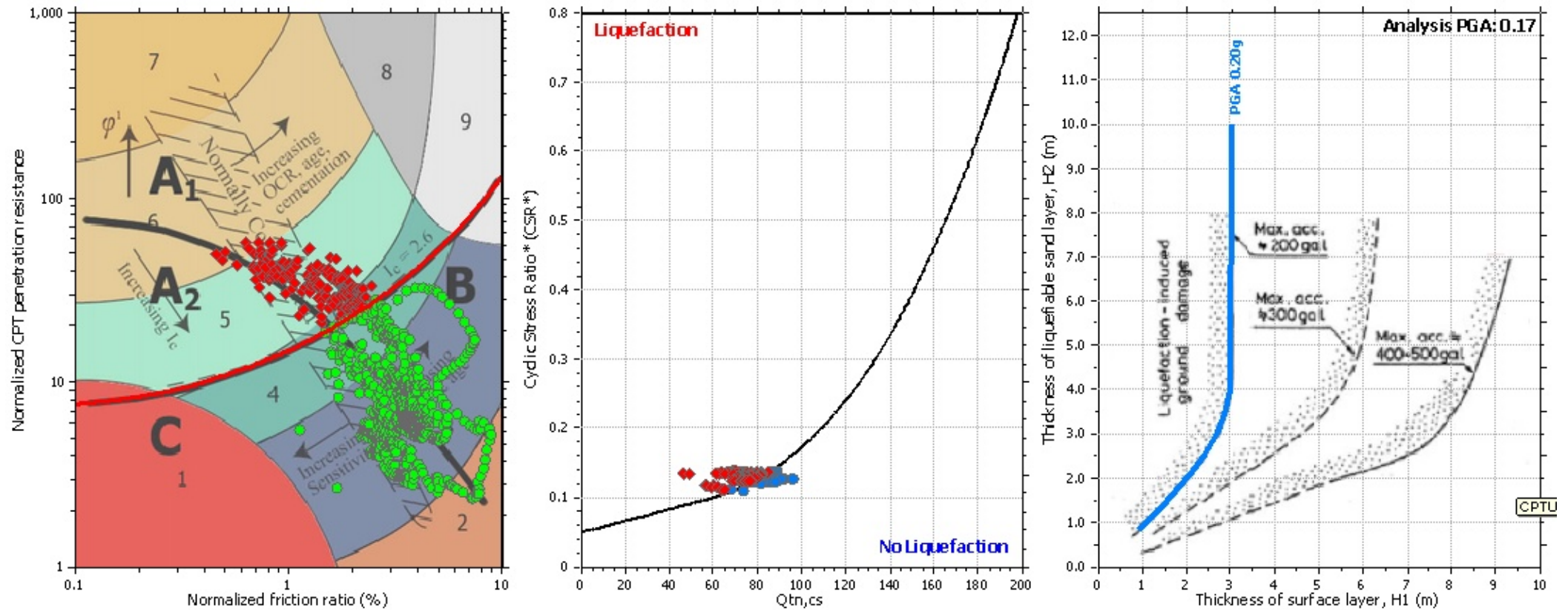
F.S. color scheme

| | |
|---|---|
| ■ | Almost certain it will liquefy |
| ■ | Very likely to liquefy |
| ■ | Liquefaction and no liq. are equally likely |
| ■ | Unlike to liquefy |
| ■ | Almost certain it will not liquefy |

LPI color scheme

| | |
|---------------------------------------|----------------|
| ■ | Very high risk |
| ■ | High risk |
| ■ | Low risk |

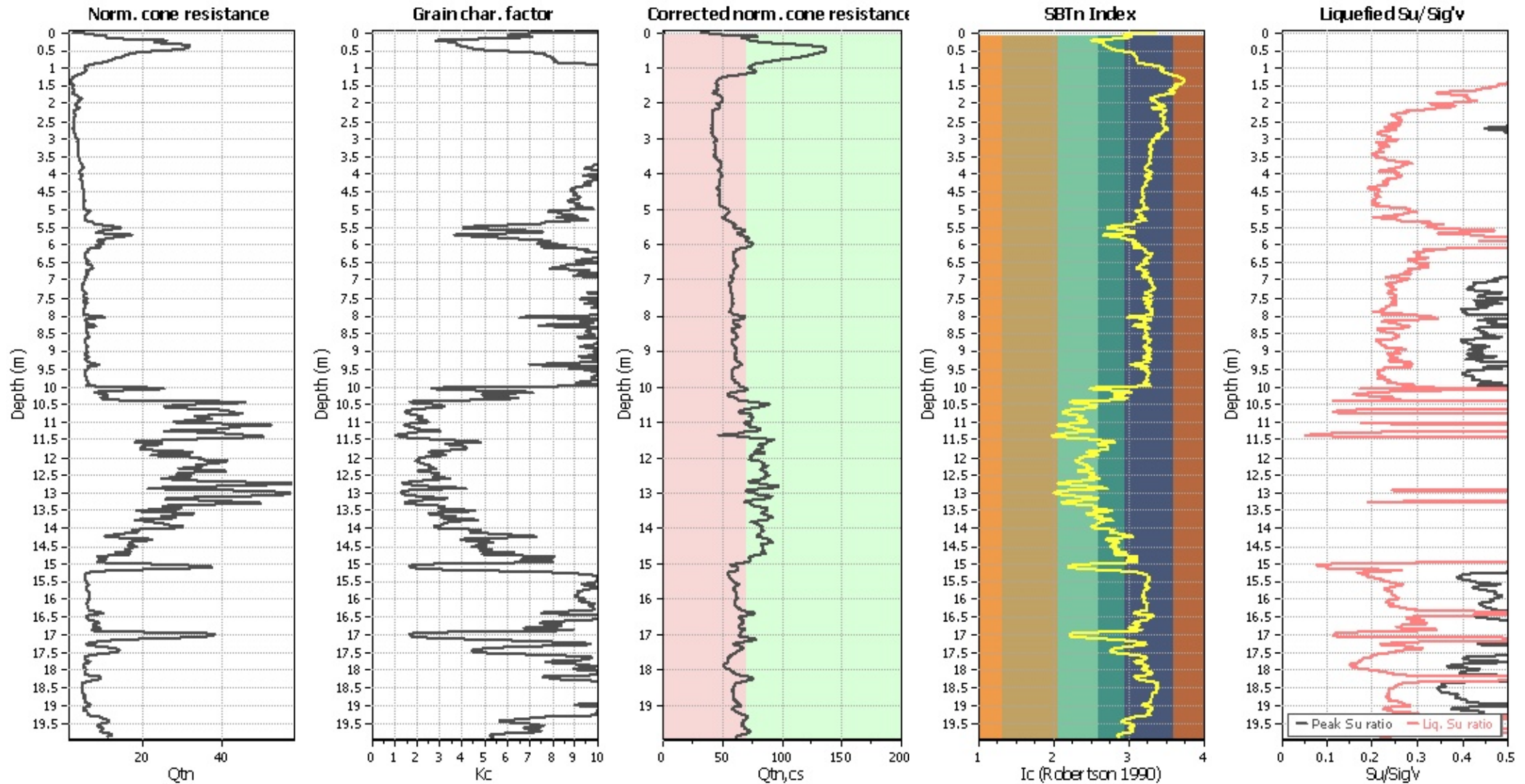
Liquefaction analysis summary plo



Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 6.14 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

Check for strength loss plots (Robertson (2010))



Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 6.14 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

| :: Liquefaction Potential Index calculation data :: | | | | | | | | | | | |
|---|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
| 0.02 | 2.00 | 0.00 | 9.99 | 0.02 | 0.00 | 0.04 | 2.00 | 0.00 | 9.98 | 0.02 | 0.00 |
| 0.06 | 2.00 | 0.00 | 9.97 | 0.02 | 0.00 | 0.08 | 2.00 | 0.00 | 9.96 | 0.02 | 0.00 |
| 0.10 | 2.00 | 0.00 | 9.95 | 0.02 | 0.00 | 0.12 | 2.00 | 0.00 | 9.94 | 0.02 | 0.00 |
| 0.14 | 2.00 | 0.00 | 9.93 | 0.02 | 0.00 | 0.16 | 2.00 | 0.00 | 9.92 | 0.02 | 0.00 |
| 0.18 | 2.00 | 0.00 | 9.91 | 0.02 | 0.00 | 0.20 | 2.00 | 0.00 | 9.90 | 0.02 | 0.00 |
| 0.22 | 2.00 | 0.00 | 9.89 | 0.02 | 0.00 | 0.24 | 2.00 | 0.00 | 9.88 | 0.02 | 0.00 |
| 0.26 | 2.00 | 0.00 | 9.87 | 0.02 | 0.00 | 0.28 | 2.00 | 0.00 | 9.86 | 0.02 | 0.00 |
| 0.30 | 2.00 | 0.00 | 9.85 | 0.02 | 0.00 | 0.32 | 2.00 | 0.00 | 9.84 | 0.02 | 0.00 |
| 0.34 | 2.00 | 0.00 | 9.83 | 0.02 | 0.00 | 0.36 | 2.00 | 0.00 | 9.82 | 0.02 | 0.00 |
| 0.38 | 2.00 | 0.00 | 9.81 | 0.02 | 0.00 | 0.40 | 2.00 | 0.00 | 9.80 | 0.02 | 0.00 |
| 0.42 | 2.00 | 0.00 | 9.79 | 0.02 | 0.00 | 0.44 | 2.00 | 0.00 | 9.78 | 0.02 | 0.00 |
| 0.46 | 2.00 | 0.00 | 9.77 | 0.02 | 0.00 | 0.48 | 2.00 | 0.00 | 9.76 | 0.02 | 0.00 |
| 0.50 | 2.00 | 0.00 | 9.75 | 0.02 | 0.00 | 0.52 | 2.00 | 0.00 | 9.74 | 0.02 | 0.00 |
| 0.54 | 2.00 | 0.00 | 9.73 | 0.02 | 0.00 | 0.56 | 2.00 | 0.00 | 9.72 | 0.02 | 0.00 |
| 0.58 | 2.00 | 0.00 | 9.71 | 0.02 | 0.00 | 0.60 | 2.00 | 0.00 | 9.70 | 0.02 | 0.00 |
| 0.62 | 2.00 | 0.00 | 9.69 | 0.02 | 0.00 | 0.64 | 2.00 | 0.00 | 9.68 | 0.02 | 0.00 |
| 0.66 | 2.00 | 0.00 | 9.67 | 0.02 | 0.00 | 0.68 | 2.00 | 0.00 | 9.66 | 0.02 | 0.00 |
| 0.70 | 2.00 | 0.00 | 9.65 | 0.02 | 0.00 | 0.72 | 2.00 | 0.00 | 9.64 | 0.02 | 0.00 |
| 0.74 | 2.00 | 0.00 | 9.63 | 0.02 | 0.00 | 0.76 | 2.00 | 0.00 | 9.62 | 0.02 | 0.00 |
| 0.78 | 2.00 | 0.00 | 9.61 | 0.02 | 0.00 | 0.80 | 2.00 | 0.00 | 9.60 | 0.02 | 0.00 |
| 0.82 | 2.00 | 0.00 | 9.59 | 0.02 | 0.00 | 0.84 | 2.00 | 0.00 | 9.58 | 0.02 | 0.00 |
| 0.86 | 2.00 | 0.00 | 9.57 | 0.02 | 0.00 | 0.88 | 2.00 | 0.00 | 9.56 | 0.02 | 0.00 |
| 0.90 | 2.00 | 0.00 | 9.55 | 0.02 | 0.00 | 0.92 | 2.00 | 0.00 | 9.54 | 0.02 | 0.00 |
| 0.94 | 2.00 | 0.00 | 9.53 | 0.02 | 0.00 | 0.96 | 2.00 | 0.00 | 9.52 | 0.02 | 0.00 |
| 0.98 | 2.00 | 0.00 | 9.51 | 0.02 | 0.00 | 1.00 | 2.00 | 0.00 | 9.50 | 0.02 | 0.00 |
| 1.02 | 2.00 | 0.00 | 9.49 | 0.02 | 0.00 | 1.04 | 2.00 | 0.00 | 9.48 | 0.02 | 0.00 |
| 1.06 | 2.00 | 0.00 | 9.47 | 0.02 | 0.00 | 1.08 | 2.00 | 0.00 | 9.46 | 0.02 | 0.00 |
| 1.10 | 2.00 | 0.00 | 9.45 | 0.02 | 0.00 | 1.12 | 2.00 | 0.00 | 9.44 | 0.02 | 0.00 |
| 1.14 | 2.00 | 0.00 | 9.43 | 0.02 | 0.00 | 1.16 | 2.00 | 0.00 | 9.42 | 0.02 | 0.00 |
| 1.18 | 2.00 | 0.00 | 9.41 | 0.02 | 0.00 | 1.20 | 2.00 | 0.00 | 9.40 | 0.02 | 0.00 |
| 1.22 | 2.00 | 0.00 | 9.39 | 0.02 | 0.00 | 1.24 | 2.00 | 0.00 | 9.38 | 0.02 | 0.00 |
| 1.26 | 2.00 | 0.00 | 9.37 | 0.02 | 0.00 | 1.28 | 2.00 | 0.00 | 9.36 | 0.02 | 0.00 |
| 1.30 | 2.00 | 0.00 | 9.35 | 0.02 | 0.00 | 1.32 | 2.00 | 0.00 | 9.34 | 0.02 | 0.00 |
| 1.34 | 2.00 | 0.00 | 9.33 | 0.02 | 0.00 | 1.36 | 2.00 | 0.00 | 9.32 | 0.02 | 0.00 |
| 1.38 | 2.00 | 0.00 | 9.31 | 0.02 | 0.00 | 1.40 | 2.00 | 0.00 | 9.30 | 0.02 | 0.00 |
| 1.42 | 2.00 | 0.00 | 9.29 | 0.02 | 0.00 | 1.44 | 2.00 | 0.00 | 9.28 | 0.02 | 0.00 |
| 1.46 | 2.00 | 0.00 | 9.27 | 0.02 | 0.00 | 1.48 | 2.00 | 0.00 | 9.26 | 0.02 | 0.00 |
| 1.50 | 2.00 | 0.00 | 9.25 | 0.02 | 0.00 | 1.52 | 2.00 | 0.00 | 9.24 | 0.02 | 0.00 |
| 1.54 | 2.00 | 0.00 | 9.23 | 0.02 | 0.00 | 1.56 | 2.00 | 0.00 | 9.22 | 0.02 | 0.00 |
| 1.58 | 2.00 | 0.00 | 9.21 | 0.02 | 0.00 | 1.60 | 2.00 | 0.00 | 9.20 | 0.02 | 0.00 |
| 1.62 | 2.00 | 0.00 | 9.19 | 0.02 | 0.00 | 1.64 | 2.00 | 0.00 | 9.18 | 0.02 | 0.00 |
| 1.66 | 2.00 | 0.00 | 9.17 | 0.02 | 0.00 | 1.68 | 2.00 | 0.00 | 9.16 | 0.02 | 0.00 |
| 1.70 | 2.00 | 0.00 | 9.15 | 0.02 | 0.00 | 1.72 | 2.00 | 0.00 | 9.14 | 0.02 | 0.00 |
| 1.74 | 2.00 | 0.00 | 9.13 | 0.02 | 0.00 | 1.76 | 2.00 | 0.00 | 9.12 | 0.02 | 0.00 |
| 1.78 | 2.00 | 0.00 | 9.11 | 0.02 | 0.00 | 1.80 | 2.00 | 0.00 | 9.10 | 0.02 | 0.00 |
| 1.82 | 2.00 | 0.00 | 9.09 | 0.02 | 0.00 | 1.84 | 2.00 | 0.00 | 9.08 | 0.02 | 0.00 |
| 1.86 | 2.00 | 0.00 | 9.07 | 0.02 | 0.00 | 1.88 | 2.00 | 0.00 | 9.06 | 0.02 | 0.00 |
| 1.90 | 2.00 | 0.00 | 9.05 | 0.02 | 0.00 | 1.92 | 2.00 | 0.00 | 9.04 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 1.94 | 2.00 | 0.00 | 9.03 | 0.02 | 0.00 | 1.96 | 2.00 | 0.00 | 9.02 | 0.02 | 0.00 |
| 1.98 | 2.00 | 0.00 | 9.01 | 0.02 | 0.00 | 2.00 | 2.00 | 0.00 | 9.00 | 0.02 | 0.00 |
| 2.02 | 2.00 | 0.00 | 8.99 | 0.02 | 0.00 | 2.04 | 2.00 | 0.00 | 8.98 | 0.02 | 0.00 |
| 2.06 | 2.00 | 0.00 | 8.97 | 0.02 | 0.00 | 2.08 | 2.00 | 0.00 | 8.96 | 0.02 | 0.00 |
| 2.10 | 2.00 | 0.00 | 8.95 | 0.02 | 0.00 | 2.12 | 2.00 | 0.00 | 8.94 | 0.02 | 0.00 |
| 2.14 | 2.00 | 0.00 | 8.93 | 0.02 | 0.00 | 2.16 | 2.00 | 0.00 | 8.92 | 0.02 | 0.00 |
| 2.18 | 2.00 | 0.00 | 8.91 | 0.02 | 0.00 | 2.20 | 2.00 | 0.00 | 8.90 | 0.02 | 0.00 |
| 2.22 | 2.00 | 0.00 | 8.89 | 0.02 | 0.00 | 2.24 | 2.00 | 0.00 | 8.88 | 0.02 | 0.00 |
| 2.26 | 2.00 | 0.00 | 8.87 | 0.02 | 0.00 | 2.28 | 2.00 | 0.00 | 8.86 | 0.02 | 0.00 |
| 2.30 | 2.00 | 0.00 | 8.85 | 0.02 | 0.00 | 2.32 | 2.00 | 0.00 | 8.84 | 0.02 | 0.00 |
| 2.34 | 2.00 | 0.00 | 8.83 | 0.02 | 0.00 | 2.36 | 2.00 | 0.00 | 8.82 | 0.02 | 0.00 |
| 2.38 | 2.00 | 0.00 | 8.81 | 0.02 | 0.00 | 2.40 | 2.00 | 0.00 | 8.80 | 0.02 | 0.00 |
| 2.42 | 2.00 | 0.00 | 8.79 | 0.02 | 0.00 | 2.44 | 2.00 | 0.00 | 8.78 | 0.02 | 0.00 |
| 2.46 | 2.00 | 0.00 | 8.77 | 0.02 | 0.00 | 2.48 | 2.00 | 0.00 | 8.76 | 0.02 | 0.00 |
| 2.50 | 2.00 | 0.00 | 8.75 | 0.02 | 0.00 | 2.52 | 2.00 | 0.00 | 8.74 | 0.02 | 0.00 |
| 2.54 | 2.00 | 0.00 | 8.73 | 0.02 | 0.00 | 2.56 | 2.00 | 0.00 | 8.72 | 0.02 | 0.00 |
| 2.58 | 2.00 | 0.00 | 8.71 | 0.02 | 0.00 | 2.60 | 2.00 | 0.00 | 8.70 | 0.02 | 0.00 |
| 2.62 | 2.00 | 0.00 | 8.69 | 0.02 | 0.00 | 2.64 | 2.00 | 0.00 | 8.68 | 0.02 | 0.00 |
| 2.66 | 2.00 | 0.00 | 8.67 | 0.02 | 0.00 | 2.68 | 2.00 | 0.00 | 8.66 | 0.02 | 0.00 |
| 2.70 | 2.00 | 0.00 | 8.65 | 0.02 | 0.00 | 2.72 | 2.00 | 0.00 | 8.64 | 0.02 | 0.00 |
| 2.74 | 2.00 | 0.00 | 8.63 | 0.02 | 0.00 | 2.76 | 2.00 | 0.00 | 8.62 | 0.02 | 0.00 |
| 2.78 | 2.00 | 0.00 | 8.61 | 0.02 | 0.00 | 2.80 | 2.00 | 0.00 | 8.60 | 0.02 | 0.00 |
| 2.82 | 2.00 | 0.00 | 8.59 | 0.02 | 0.00 | 2.84 | 2.00 | 0.00 | 8.58 | 0.02 | 0.00 |
| 2.86 | 2.00 | 0.00 | 8.57 | 0.02 | 0.00 | 2.88 | 2.00 | 0.00 | 8.56 | 0.02 | 0.00 |
| 2.90 | 2.00 | 0.00 | 8.55 | 0.02 | 0.00 | 2.92 | 2.00 | 0.00 | 8.54 | 0.02 | 0.00 |
| 2.94 | 2.00 | 0.00 | 8.53 | 0.02 | 0.00 | 2.96 | 2.00 | 0.00 | 8.52 | 0.02 | 0.00 |
| 2.98 | 2.00 | 0.00 | 8.51 | 0.02 | 0.00 | 3.00 | 2.00 | 0.00 | 8.50 | 0.02 | 0.00 |
| 3.02 | 2.00 | 0.00 | 8.49 | 0.02 | 0.00 | 3.04 | 2.00 | 0.00 | 8.48 | 0.02 | 0.00 |
| 3.06 | 2.00 | 0.00 | 8.47 | 0.02 | 0.00 | 3.08 | 2.00 | 0.00 | 8.46 | 0.02 | 0.00 |
| 3.10 | 2.00 | 0.00 | 8.45 | 0.02 | 0.00 | 3.12 | 2.00 | 0.00 | 8.44 | 0.02 | 0.00 |
| 3.14 | 2.00 | 0.00 | 8.43 | 0.02 | 0.00 | 3.16 | 2.00 | 0.00 | 8.42 | 0.02 | 0.00 |
| 3.18 | 2.00 | 0.00 | 8.41 | 0.02 | 0.00 | 3.20 | 2.00 | 0.00 | 8.40 | 0.02 | 0.00 |
| 3.22 | 2.00 | 0.00 | 8.39 | 0.02 | 0.00 | 3.24 | 2.00 | 0.00 | 8.38 | 0.02 | 0.00 |
| 3.26 | 2.00 | 0.00 | 8.37 | 0.02 | 0.00 | 3.28 | 2.00 | 0.00 | 8.36 | 0.02 | 0.00 |
| 3.30 | 2.00 | 0.00 | 8.35 | 0.02 | 0.00 | 3.32 | 2.00 | 0.00 | 8.34 | 0.02 | 0.00 |
| 3.34 | 2.00 | 0.00 | 8.33 | 0.02 | 0.00 | 3.36 | 2.00 | 0.00 | 8.32 | 0.02 | 0.00 |
| 3.38 | 2.00 | 0.00 | 8.31 | 0.02 | 0.00 | 3.40 | 2.00 | 0.00 | 8.30 | 0.02 | 0.00 |
| 3.42 | 2.00 | 0.00 | 8.29 | 0.02 | 0.00 | 3.44 | 2.00 | 0.00 | 8.28 | 0.02 | 0.00 |
| 3.46 | 2.00 | 0.00 | 8.27 | 0.02 | 0.00 | 3.48 | 2.00 | 0.00 | 8.26 | 0.02 | 0.00 |
| 3.50 | 2.00 | 0.00 | 8.25 | 0.02 | 0.00 | 3.52 | 2.00 | 0.00 | 8.24 | 0.02 | 0.00 |
| 3.54 | 2.00 | 0.00 | 8.23 | 0.02 | 0.00 | 3.56 | 2.00 | 0.00 | 8.22 | 0.02 | 0.00 |
| 3.58 | 2.00 | 0.00 | 8.21 | 0.02 | 0.00 | 3.60 | 2.00 | 0.00 | 8.20 | 0.02 | 0.00 |
| 3.62 | 2.00 | 0.00 | 8.19 | 0.02 | 0.00 | 3.64 | 2.00 | 0.00 | 8.18 | 0.02 | 0.00 |
| 3.66 | 2.00 | 0.00 | 8.17 | 0.02 | 0.00 | 3.68 | 2.00 | 0.00 | 8.16 | 0.02 | 0.00 |
| 3.70 | 2.00 | 0.00 | 8.15 | 0.02 | 0.00 | 3.72 | 2.00 | 0.00 | 8.14 | 0.02 | 0.00 |
| 3.74 | 2.00 | 0.00 | 8.13 | 0.02 | 0.00 | 3.76 | 2.00 | 0.00 | 8.12 | 0.02 | 0.00 |
| 3.78 | 2.00 | 0.00 | 8.11 | 0.02 | 0.00 | 3.80 | 2.00 | 0.00 | 8.10 | 0.02 | 0.00 |
| 3.82 | 2.00 | 0.00 | 8.09 | 0.02 | 0.00 | 3.84 | 2.00 | 0.00 | 8.08 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 3.86 | 2.00 | 0.00 | 8.07 | 0.02 | 0.00 | 3.88 | 2.00 | 0.00 | 8.06 | 0.02 | 0.00 |
| 3.90 | 2.00 | 0.00 | 8.05 | 0.02 | 0.00 | 3.92 | 2.00 | 0.00 | 8.04 | 0.02 | 0.00 |
| 3.94 | 2.00 | 0.00 | 8.03 | 0.02 | 0.00 | 3.96 | 2.00 | 0.00 | 8.02 | 0.02 | 0.00 |
| 3.98 | 2.00 | 0.00 | 8.01 | 0.02 | 0.00 | 4.00 | 2.00 | 0.00 | 8.00 | 0.02 | 0.00 |
| 4.02 | 2.00 | 0.00 | 7.99 | 0.02 | 0.00 | 4.04 | 2.00 | 0.00 | 7.98 | 0.02 | 0.00 |
| 4.06 | 2.00 | 0.00 | 7.97 | 0.02 | 0.00 | 4.08 | 2.00 | 0.00 | 7.96 | 0.02 | 0.00 |
| 4.10 | 2.00 | 0.00 | 7.95 | 0.02 | 0.00 | 4.12 | 2.00 | 0.00 | 7.94 | 0.02 | 0.00 |
| 4.14 | 2.00 | 0.00 | 7.93 | 0.02 | 0.00 | 4.16 | 2.00 | 0.00 | 7.92 | 0.02 | 0.00 |
| 4.18 | 2.00 | 0.00 | 7.91 | 0.02 | 0.00 | 4.20 | 2.00 | 0.00 | 7.90 | 0.02 | 0.00 |
| 4.22 | 2.00 | 0.00 | 7.89 | 0.02 | 0.00 | 4.24 | 2.00 | 0.00 | 7.88 | 0.02 | 0.00 |
| 4.26 | 2.00 | 0.00 | 7.87 | 0.02 | 0.00 | 4.28 | 2.00 | 0.00 | 7.86 | 0.02 | 0.00 |
| 4.30 | 2.00 | 0.00 | 7.85 | 0.02 | 0.00 | 4.32 | 2.00 | 0.00 | 7.84 | 0.02 | 0.00 |
| 4.34 | 2.00 | 0.00 | 7.83 | 0.02 | 0.00 | 4.36 | 2.00 | 0.00 | 7.82 | 0.02 | 0.00 |
| 4.38 | 2.00 | 0.00 | 7.81 | 0.02 | 0.00 | 4.40 | 2.00 | 0.00 | 7.80 | 0.02 | 0.00 |
| 4.42 | 2.00 | 0.00 | 7.79 | 0.02 | 0.00 | 4.44 | 2.00 | 0.00 | 7.78 | 0.02 | 0.00 |
| 4.46 | 2.00 | 0.00 | 7.77 | 0.02 | 0.00 | 4.48 | 2.00 | 0.00 | 7.76 | 0.02 | 0.00 |
| 4.50 | 2.00 | 0.00 | 7.75 | 0.02 | 0.00 | 4.52 | 2.00 | 0.00 | 7.74 | 0.02 | 0.00 |
| 4.54 | 2.00 | 0.00 | 7.73 | 0.02 | 0.00 | 4.56 | 2.00 | 0.00 | 7.72 | 0.02 | 0.00 |
| 4.58 | 2.00 | 0.00 | 7.71 | 0.02 | 0.00 | 4.60 | 2.00 | 0.00 | 7.70 | 0.02 | 0.00 |
| 4.62 | 2.00 | 0.00 | 7.69 | 0.02 | 0.00 | 4.64 | 2.00 | 0.00 | 7.68 | 0.02 | 0.00 |
| 4.66 | 2.00 | 0.00 | 7.67 | 0.02 | 0.00 | 4.68 | 2.00 | 0.00 | 7.66 | 0.02 | 0.00 |
| 4.70 | 2.00 | 0.00 | 7.65 | 0.02 | 0.00 | 4.72 | 2.00 | 0.00 | 7.64 | 0.02 | 0.00 |
| 4.74 | 2.00 | 0.00 | 7.63 | 0.02 | 0.00 | 4.76 | 2.00 | 0.00 | 7.62 | 0.02 | 0.00 |
| 4.78 | 2.00 | 0.00 | 7.61 | 0.02 | 0.00 | 4.80 | 2.00 | 0.00 | 7.60 | 0.02 | 0.00 |
| 4.82 | 2.00 | 0.00 | 7.59 | 0.02 | 0.00 | 4.84 | 2.00 | 0.00 | 7.58 | 0.02 | 0.00 |
| 4.86 | 2.00 | 0.00 | 7.57 | 0.02 | 0.00 | 4.88 | 2.00 | 0.00 | 7.56 | 0.02 | 0.00 |
| 4.90 | 2.00 | 0.00 | 7.55 | 0.02 | 0.00 | 4.92 | 2.00 | 0.00 | 7.54 | 0.02 | 0.00 |
| 4.94 | 2.00 | 0.00 | 7.53 | 0.02 | 0.00 | 4.96 | 2.00 | 0.00 | 7.52 | 0.02 | 0.00 |
| 4.98 | 2.00 | 0.00 | 7.51 | 0.02 | 0.00 | 5.00 | 2.00 | 0.00 | 7.50 | 0.02 | 0.00 |
| 5.02 | 2.00 | 0.00 | 7.49 | 0.02 | 0.00 | 5.04 | 2.00 | 0.00 | 7.48 | 0.02 | 0.00 |
| 5.06 | 2.00 | 0.00 | 7.47 | 0.02 | 0.00 | 5.08 | 2.00 | 0.00 | 7.46 | 0.02 | 0.00 |
| 5.10 | 2.00 | 0.00 | 7.45 | 0.02 | 0.00 | 5.12 | 2.00 | 0.00 | 7.44 | 0.02 | 0.00 |
| 5.14 | 2.00 | 0.00 | 7.43 | 0.02 | 0.00 | 5.16 | 2.00 | 0.00 | 7.42 | 0.02 | 0.00 |
| 5.18 | 2.00 | 0.00 | 7.41 | 0.02 | 0.00 | 5.20 | 2.00 | 0.00 | 7.40 | 0.02 | 0.00 |
| 5.22 | 2.00 | 0.00 | 7.39 | 0.02 | 0.00 | 5.24 | 2.00 | 0.00 | 7.38 | 0.02 | 0.00 |
| 5.26 | 2.00 | 0.00 | 7.37 | 0.02 | 0.00 | 5.28 | 2.00 | 0.00 | 7.36 | 0.02 | 0.00 |
| 5.30 | 2.00 | 0.00 | 7.35 | 0.02 | 0.00 | 5.32 | 2.00 | 0.00 | 7.34 | 0.02 | 0.00 |
| 5.34 | 2.00 | 0.00 | 7.33 | 0.02 | 0.00 | 5.36 | 2.00 | 0.00 | 7.32 | 0.02 | 0.00 |
| 5.38 | 2.00 | 0.00 | 7.31 | 0.02 | 0.00 | 5.40 | 2.00 | 0.00 | 7.30 | 0.02 | 0.00 |
| 5.42 | 2.00 | 0.00 | 7.29 | 0.02 | 0.00 | 5.44 | 2.00 | 0.00 | 7.28 | 0.02 | 0.00 |
| 5.46 | 2.00 | 0.00 | 7.27 | 0.02 | 0.00 | 5.48 | 2.00 | 0.00 | 7.26 | 0.02 | 0.00 |
| 5.50 | 2.00 | 0.00 | 7.25 | 0.02 | 0.00 | 5.52 | 2.00 | 0.00 | 7.24 | 0.02 | 0.00 |
| 5.54 | 2.00 | 0.00 | 7.23 | 0.02 | 0.00 | 5.56 | 2.00 | 0.00 | 7.22 | 0.02 | 0.00 |
| 5.58 | 2.00 | 0.00 | 7.21 | 0.02 | 0.00 | 5.60 | 2.00 | 0.00 | 7.20 | 0.02 | 0.00 |
| 5.62 | 2.00 | 0.00 | 7.19 | 0.02 | 0.00 | 5.64 | 2.00 | 0.00 | 7.18 | 0.02 | 0.00 |
| 5.66 | 2.00 | 0.00 | 7.17 | 0.02 | 0.00 | 5.68 | 2.00 | 0.00 | 7.16 | 0.02 | 0.00 |
| 5.70 | 2.00 | 0.00 | 7.15 | 0.02 | 0.00 | 5.72 | 2.00 | 0.00 | 7.14 | 0.02 | 0.00 |
| 5.74 | 2.00 | 0.00 | 7.13 | 0.02 | 0.00 | 5.76 | 2.00 | 0.00 | 7.12 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 5.78 | 2.00 | 0.00 | 7.11 | 0.02 | 0.00 | 5.80 | 2.00 | 0.00 | 7.10 | 0.02 | 0.00 |
| 5.82 | 2.00 | 0.00 | 7.09 | 0.02 | 0.00 | 5.84 | 2.00 | 0.00 | 7.08 | 0.02 | 0.00 |
| 5.86 | 2.00 | 0.00 | 7.07 | 0.02 | 0.00 | 5.88 | 2.00 | 0.00 | 7.06 | 0.02 | 0.00 |
| 5.90 | 2.00 | 0.00 | 7.05 | 0.02 | 0.00 | 5.92 | 2.00 | 0.00 | 7.04 | 0.02 | 0.00 |
| 5.94 | 2.00 | 0.00 | 7.03 | 0.02 | 0.00 | 5.96 | 2.00 | 0.00 | 7.02 | 0.02 | 0.00 |
| 5.98 | 2.00 | 0.00 | 7.01 | 0.02 | 0.00 | 6.00 | 2.00 | 0.00 | 7.00 | 0.02 | 0.00 |
| 6.02 | 2.00 | 0.00 | 6.99 | 0.02 | 0.00 | 6.04 | 2.00 | 0.00 | 6.98 | 0.02 | 0.00 |
| 6.06 | 2.00 | 0.00 | 6.97 | 0.02 | 0.00 | 6.08 | 2.00 | 0.00 | 6.96 | 0.02 | 0.00 |
| 6.10 | 2.00 | 0.00 | 6.95 | 0.02 | 0.00 | 6.12 | 2.00 | 0.00 | 6.94 | 0.02 | 0.00 |
| 6.14 | 2.00 | 0.00 | 6.93 | 0.02 | 0.00 | 6.16 | 2.00 | 0.00 | 6.92 | 0.02 | 0.00 |
| 6.18 | 2.00 | 0.00 | 6.91 | 0.02 | 0.00 | 6.20 | 2.00 | 0.00 | 6.90 | 0.02 | 0.00 |
| 6.22 | 2.00 | 0.00 | 6.89 | 0.02 | 0.00 | 6.24 | 2.00 | 0.00 | 6.88 | 0.02 | 0.00 |
| 6.26 | 2.00 | 0.00 | 6.87 | 0.02 | 0.00 | 6.28 | 2.00 | 0.00 | 6.86 | 0.02 | 0.00 |
| 6.30 | 2.00 | 0.00 | 6.85 | 0.02 | 0.00 | 6.32 | 2.00 | 0.00 | 6.84 | 0.02 | 0.00 |
| 6.34 | 2.00 | 0.00 | 6.83 | 0.02 | 0.00 | 6.36 | 2.00 | 0.00 | 6.82 | 0.02 | 0.00 |
| 6.38 | 2.00 | 0.00 | 6.81 | 0.02 | 0.00 | 6.40 | 2.00 | 0.00 | 6.80 | 0.02 | 0.00 |
| 6.42 | 2.00 | 0.00 | 6.79 | 0.02 | 0.00 | 6.44 | 2.00 | 0.00 | 6.78 | 0.02 | 0.00 |
| 6.46 | 2.00 | 0.00 | 6.77 | 0.02 | 0.00 | 6.48 | 2.00 | 0.00 | 6.76 | 0.02 | 0.00 |
| 6.50 | 2.00 | 0.00 | 6.75 | 0.02 | 0.00 | 6.52 | 2.00 | 0.00 | 6.74 | 0.02 | 0.00 |
| 6.54 | 2.00 | 0.00 | 6.73 | 0.02 | 0.00 | 6.56 | 2.00 | 0.00 | 6.72 | 0.02 | 0.00 |
| 6.58 | 2.00 | 0.00 | 6.71 | 0.02 | 0.00 | 6.60 | 2.00 | 0.00 | 6.70 | 0.02 | 0.00 |
| 6.62 | 2.00 | 0.00 | 6.69 | 0.02 | 0.00 | 6.64 | 2.00 | 0.00 | 6.68 | 0.02 | 0.00 |
| 6.66 | 2.00 | 0.00 | 6.67 | 0.02 | 0.00 | 6.68 | 2.00 | 0.00 | 6.66 | 0.02 | 0.00 |
| 6.70 | 2.00 | 0.00 | 6.65 | 0.02 | 0.00 | 6.72 | 2.00 | 0.00 | 6.64 | 0.02 | 0.00 |
| 6.74 | 2.00 | 0.00 | 6.63 | 0.02 | 0.00 | 6.76 | 2.00 | 0.00 | 6.62 | 0.02 | 0.00 |
| 6.78 | 2.00 | 0.00 | 6.61 | 0.02 | 0.00 | 6.80 | 2.00 | 0.00 | 6.60 | 0.02 | 0.00 |
| 6.82 | 2.00 | 0.00 | 6.59 | 0.02 | 0.00 | 6.84 | 2.00 | 0.00 | 6.58 | 0.02 | 0.00 |
| 6.86 | 2.00 | 0.00 | 6.57 | 0.02 | 0.00 | 6.88 | 2.00 | 0.00 | 6.56 | 0.02 | 0.00 |
| 6.90 | 2.00 | 0.00 | 6.55 | 0.02 | 0.00 | 6.92 | 2.00 | 0.00 | 6.54 | 0.02 | 0.00 |
| 6.94 | 2.00 | 0.00 | 6.53 | 0.02 | 0.00 | 6.96 | 2.00 | 0.00 | 6.52 | 0.02 | 0.00 |
| 6.98 | 2.00 | 0.00 | 6.51 | 0.02 | 0.00 | 7.00 | 2.00 | 0.00 | 6.50 | 0.02 | 0.00 |
| 7.02 | 2.00 | 0.00 | 6.49 | 0.02 | 0.00 | 7.04 | 2.00 | 0.00 | 6.48 | 0.02 | 0.00 |
| 7.06 | 2.00 | 0.00 | 6.47 | 0.02 | 0.00 | 7.08 | 2.00 | 0.00 | 6.46 | 0.02 | 0.00 |
| 7.10 | 2.00 | 0.00 | 6.45 | 0.02 | 0.00 | 7.12 | 2.00 | 0.00 | 6.44 | 0.02 | 0.00 |
| 7.14 | 2.00 | 0.00 | 6.43 | 0.02 | 0.00 | 7.16 | 2.00 | 0.00 | 6.42 | 0.02 | 0.00 |
| 7.18 | 2.00 | 0.00 | 6.41 | 0.02 | 0.00 | 7.20 | 2.00 | 0.00 | 6.40 | 0.02 | 0.00 |
| 7.22 | 2.00 | 0.00 | 6.39 | 0.02 | 0.00 | 7.24 | 2.00 | 0.00 | 6.38 | 0.02 | 0.00 |
| 7.26 | 2.00 | 0.00 | 6.37 | 0.02 | 0.00 | 7.28 | 2.00 | 0.00 | 6.36 | 0.02 | 0.00 |
| 7.30 | 2.00 | 0.00 | 6.35 | 0.02 | 0.00 | 7.32 | 2.00 | 0.00 | 6.34 | 0.02 | 0.00 |
| 7.34 | 2.00 | 0.00 | 6.33 | 0.02 | 0.00 | 7.36 | 2.00 | 0.00 | 6.32 | 0.02 | 0.00 |
| 7.38 | 2.00 | 0.00 | 6.31 | 0.02 | 0.00 | 7.40 | 2.00 | 0.00 | 6.30 | 0.02 | 0.00 |
| 7.42 | 2.00 | 0.00 | 6.29 | 0.02 | 0.00 | 7.44 | 2.00 | 0.00 | 6.28 | 0.02 | 0.00 |
| 7.46 | 2.00 | 0.00 | 6.27 | 0.02 | 0.00 | 7.48 | 2.00 | 0.00 | 6.26 | 0.02 | 0.00 |
| 7.50 | 2.00 | 0.00 | 6.25 | 0.02 | 0.00 | 7.52 | 2.00 | 0.00 | 6.24 | 0.02 | 0.00 |
| 7.54 | 2.00 | 0.00 | 6.23 | 0.02 | 0.00 | 7.56 | 2.00 | 0.00 | 6.22 | 0.02 | 0.00 |
| 7.58 | 2.00 | 0.00 | 6.21 | 0.02 | 0.00 | 7.60 | 2.00 | 0.00 | 6.20 | 0.02 | 0.00 |
| 7.62 | 2.00 | 0.00 | 6.19 | 0.02 | 0.00 | 7.64 | 2.00 | 0.00 | 6.18 | 0.02 | 0.00 |
| 7.66 | 2.00 | 0.00 | 6.17 | 0.02 | 0.00 | 7.68 | 2.00 | 0.00 | 6.16 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 7.70 | 2.00 | 0.00 | 6.15 | 0.02 | 0.00 | 7.72 | 2.00 | 0.00 | 6.14 | 0.02 | 0.00 |
| 7.74 | 2.00 | 0.00 | 6.13 | 0.02 | 0.00 | 7.76 | 2.00 | 0.00 | 6.12 | 0.02 | 0.00 |
| 7.78 | 2.00 | 0.00 | 6.11 | 0.02 | 0.00 | 7.80 | 2.00 | 0.00 | 6.10 | 0.02 | 0.00 |
| 7.82 | 2.00 | 0.00 | 6.09 | 0.02 | 0.00 | 7.84 | 2.00 | 0.00 | 6.08 | 0.02 | 0.00 |
| 7.86 | 2.00 | 0.00 | 6.07 | 0.02 | 0.00 | 7.88 | 2.00 | 0.00 | 6.06 | 0.02 | 0.00 |
| 7.90 | 2.00 | 0.00 | 6.05 | 0.02 | 0.00 | 7.92 | 2.00 | 0.00 | 6.04 | 0.02 | 0.00 |
| 7.94 | 2.00 | 0.00 | 6.03 | 0.02 | 0.00 | 7.96 | 2.00 | 0.00 | 6.02 | 0.02 | 0.00 |
| 7.98 | 2.00 | 0.00 | 6.01 | 0.02 | 0.00 | 8.00 | 2.00 | 0.00 | 6.00 | 0.02 | 0.00 |
| 8.02 | 2.00 | 0.00 | 5.99 | 0.02 | 0.00 | 8.04 | 2.00 | 0.00 | 5.98 | 0.02 | 0.00 |
| 8.06 | 2.00 | 0.00 | 5.97 | 0.02 | 0.00 | 8.08 | 2.00 | 0.00 | 5.96 | 0.02 | 0.00 |
| 8.10 | 2.00 | 0.00 | 5.95 | 0.02 | 0.00 | 8.12 | 2.00 | 0.00 | 5.94 | 0.02 | 0.00 |
| 8.14 | 2.00 | 0.00 | 5.93 | 0.02 | 0.00 | 8.16 | 2.00 | 0.00 | 5.92 | 0.02 | 0.00 |
| 8.18 | 2.00 | 0.00 | 5.91 | 0.02 | 0.00 | 8.20 | 2.00 | 0.00 | 5.90 | 0.02 | 0.00 |
| 8.22 | 2.00 | 0.00 | 5.89 | 0.02 | 0.00 | 8.24 | 2.00 | 0.00 | 5.88 | 0.02 | 0.00 |
| 8.26 | 2.00 | 0.00 | 5.87 | 0.02 | 0.00 | 8.28 | 2.00 | 0.00 | 5.86 | 0.02 | 0.00 |
| 8.30 | 2.00 | 0.00 | 5.85 | 0.02 | 0.00 | 8.32 | 2.00 | 0.00 | 5.84 | 0.02 | 0.00 |
| 8.34 | 2.00 | 0.00 | 5.83 | 0.02 | 0.00 | 8.36 | 2.00 | 0.00 | 5.82 | 0.02 | 0.00 |
| 8.38 | 2.00 | 0.00 | 5.81 | 0.02 | 0.00 | 8.40 | 2.00 | 0.00 | 5.80 | 0.02 | 0.00 |
| 8.42 | 2.00 | 0.00 | 5.79 | 0.02 | 0.00 | 8.44 | 2.00 | 0.00 | 5.78 | 0.02 | 0.00 |
| 8.46 | 2.00 | 0.00 | 5.77 | 0.02 | 0.00 | 8.48 | 2.00 | 0.00 | 5.76 | 0.02 | 0.00 |
| 8.50 | 2.00 | 0.00 | 5.75 | 0.02 | 0.00 | 8.52 | 2.00 | 0.00 | 5.74 | 0.02 | 0.00 |
| 8.54 | 2.00 | 0.00 | 5.73 | 0.02 | 0.00 | 8.56 | 2.00 | 0.00 | 5.72 | 0.02 | 0.00 |
| 8.58 | 2.00 | 0.00 | 5.71 | 0.02 | 0.00 | 8.60 | 2.00 | 0.00 | 5.70 | 0.02 | 0.00 |
| 8.62 | 2.00 | 0.00 | 5.69 | 0.02 | 0.00 | 8.64 | 2.00 | 0.00 | 5.68 | 0.02 | 0.00 |
| 8.66 | 2.00 | 0.00 | 5.67 | 0.02 | 0.00 | 8.68 | 2.00 | 0.00 | 5.66 | 0.02 | 0.00 |
| 8.70 | 2.00 | 0.00 | 5.65 | 0.02 | 0.00 | 8.72 | 2.00 | 0.00 | 5.64 | 0.02 | 0.00 |
| 8.74 | 2.00 | 0.00 | 5.63 | 0.02 | 0.00 | 8.76 | 2.00 | 0.00 | 5.62 | 0.02 | 0.00 |
| 8.78 | 2.00 | 0.00 | 5.61 | 0.02 | 0.00 | 8.80 | 2.00 | 0.00 | 5.60 | 0.02 | 0.00 |
| 8.82 | 2.00 | 0.00 | 5.59 | 0.02 | 0.00 | 8.84 | 2.00 | 0.00 | 5.58 | 0.02 | 0.00 |
| 8.86 | 2.00 | 0.00 | 5.57 | 0.02 | 0.00 | 8.88 | 2.00 | 0.00 | 5.56 | 0.02 | 0.00 |
| 8.90 | 2.00 | 0.00 | 5.55 | 0.02 | 0.00 | 8.92 | 2.00 | 0.00 | 5.54 | 0.02 | 0.00 |
| 8.94 | 2.00 | 0.00 | 5.53 | 0.02 | 0.00 | 8.96 | 2.00 | 0.00 | 5.52 | 0.02 | 0.00 |
| 8.98 | 2.00 | 0.00 | 5.51 | 0.02 | 0.00 | 9.00 | 2.00 | 0.00 | 5.50 | 0.02 | 0.00 |
| 9.02 | 2.00 | 0.00 | 5.49 | 0.02 | 0.00 | 9.04 | 2.00 | 0.00 | 5.48 | 0.02 | 0.00 |
| 9.06 | 2.00 | 0.00 | 5.47 | 0.02 | 0.00 | 9.08 | 2.00 | 0.00 | 5.46 | 0.02 | 0.00 |
| 9.10 | 2.00 | 0.00 | 5.45 | 0.02 | 0.00 | 9.12 | 2.00 | 0.00 | 5.44 | 0.02 | 0.00 |
| 9.14 | 2.00 | 0.00 | 5.43 | 0.02 | 0.00 | 9.16 | 2.00 | 0.00 | 5.42 | 0.02 | 0.00 |
| 9.18 | 2.00 | 0.00 | 5.41 | 0.02 | 0.00 | 9.20 | 2.00 | 0.00 | 5.40 | 0.02 | 0.00 |
| 9.22 | 2.00 | 0.00 | 5.39 | 0.02 | 0.00 | 9.24 | 2.00 | 0.00 | 5.38 | 0.02 | 0.00 |
| 9.26 | 2.00 | 0.00 | 5.37 | 0.02 | 0.00 | 9.28 | 2.00 | 0.00 | 5.36 | 0.02 | 0.00 |
| 9.30 | 2.00 | 0.00 | 5.35 | 0.02 | 0.00 | 9.32 | 2.00 | 0.00 | 5.34 | 0.02 | 0.00 |
| 9.34 | 2.00 | 0.00 | 5.33 | 0.02 | 0.00 | 9.36 | 2.00 | 0.00 | 5.32 | 0.02 | 0.00 |
| 9.38 | 2.00 | 0.00 | 5.31 | 0.02 | 0.00 | 9.40 | 2.00 | 0.00 | 5.30 | 0.02 | 0.00 |
| 9.42 | 2.00 | 0.00 | 5.29 | 0.02 | 0.00 | 9.44 | 2.00 | 0.00 | 5.28 | 0.02 | 0.00 |
| 9.46 | 2.00 | 0.00 | 5.27 | 0.02 | 0.00 | 9.48 | 2.00 | 0.00 | 5.26 | 0.02 | 0.00 |
| 9.50 | 2.00 | 0.00 | 5.25 | 0.02 | 0.00 | 9.52 | 2.00 | 0.00 | 5.24 | 0.02 | 0.00 |
| 9.54 | 2.00 | 0.00 | 5.23 | 0.02 | 0.00 | 9.56 | 2.00 | 0.00 | 5.22 | 0.02 | 0.00 |
| 9.58 | 2.00 | 0.00 | 5.21 | 0.02 | 0.00 | 9.60 | 2.00 | 0.00 | 5.20 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 9.62 | 2.00 | 0.00 | 5.19 | 0.02 | 0.00 | 9.64 | 2.00 | 0.00 | 5.18 | 0.02 | 0.00 |
| 9.66 | 2.00 | 0.00 | 5.17 | 0.02 | 0.00 | 9.68 | 2.00 | 0.00 | 5.16 | 0.02 | 0.00 |
| 9.70 | 2.00 | 0.00 | 5.15 | 0.02 | 0.00 | 9.72 | 2.00 | 0.00 | 5.14 | 0.02 | 0.00 |
| 9.74 | 2.00 | 0.00 | 5.13 | 0.02 | 0.00 | 9.76 | 2.00 | 0.00 | 5.12 | 0.02 | 0.00 |
| 9.78 | 2.00 | 0.00 | 5.11 | 0.02 | 0.00 | 9.80 | 2.00 | 0.00 | 5.10 | 0.02 | 0.00 |
| 9.82 | 2.00 | 0.00 | 5.09 | 0.02 | 0.00 | 9.84 | 2.00 | 0.00 | 5.08 | 0.02 | 0.00 |
| 9.86 | 2.00 | 0.00 | 5.07 | 0.02 | 0.00 | 9.88 | 2.00 | 0.00 | 5.06 | 0.02 | 0.00 |
| 9.90 | 2.00 | 0.00 | 5.05 | 0.02 | 0.00 | 9.92 | 2.00 | 0.00 | 5.04 | 0.02 | 0.00 |
| 9.94 | 2.00 | 0.00 | 5.03 | 0.02 | 0.00 | 9.96 | 2.00 | 0.00 | 5.02 | 0.02 | 0.00 |
| 9.98 | 2.00 | 0.00 | 5.01 | 0.02 | 0.00 | 10.00 | 2.00 | 0.00 | 5.00 | 0.02 | 0.00 |
| 10.02 | 2.00 | 0.00 | 4.99 | 0.02 | 0.00 | 10.04 | 0.79 | 0.21 | 4.98 | 0.02 | 0.02 |
| 10.06 | 0.81 | 0.19 | 4.97 | 0.02 | 0.02 | 10.08 | 2.00 | 0.00 | 4.96 | 0.02 | 0.00 |
| 10.10 | 2.00 | 0.00 | 4.95 | 0.02 | 0.00 | 10.12 | 2.00 | 0.00 | 4.94 | 0.02 | 0.00 |
| 10.14 | 2.00 | 0.00 | 4.93 | 0.02 | 0.00 | 10.16 | 2.00 | 0.00 | 4.92 | 0.02 | 0.00 |
| 10.18 | 2.00 | 0.00 | 4.91 | 0.02 | 0.00 | 10.20 | 2.00 | 0.00 | 4.90 | 0.02 | 0.00 |
| 10.22 | 2.00 | 0.00 | 4.89 | 0.02 | 0.00 | 10.24 | 2.00 | 0.00 | 4.88 | 0.02 | 0.00 |
| 10.26 | 2.00 | 0.00 | 4.87 | 0.02 | 0.00 | 10.28 | 2.00 | 0.00 | 4.86 | 0.02 | 0.00 |
| 10.30 | 2.00 | 0.00 | 4.85 | 0.02 | 0.00 | 10.32 | 2.00 | 0.00 | 4.84 | 0.02 | 0.00 |
| 10.34 | 2.00 | 0.00 | 4.83 | 0.02 | 0.00 | 10.36 | 2.00 | 0.00 | 4.82 | 0.02 | 0.00 |
| 10.38 | 0.76 | 0.24 | 4.81 | 0.02 | 0.02 | 10.40 | 0.78 | 0.22 | 4.80 | 0.02 | 0.02 |
| 10.42 | 0.83 | 0.17 | 4.79 | 0.02 | 0.02 | 10.44 | 0.89 | 0.11 | 4.78 | 0.02 | 0.01 |
| 10.46 | 0.95 | 0.05 | 4.77 | 0.02 | 0.01 | 10.48 | 1.02 | 0.00 | 4.76 | 0.02 | 0.00 |
| 10.50 | 1.06 | 0.00 | 4.75 | 0.02 | 0.00 | 10.52 | 1.04 | 0.00 | 4.74 | 0.02 | 0.00 |
| 10.54 | 1.00 | 0.00 | 4.73 | 0.02 | 0.00 | 10.56 | 0.96 | 0.04 | 4.72 | 0.02 | 0.00 |
| 10.58 | 0.93 | 0.07 | 4.71 | 0.02 | 0.01 | 10.60 | 0.88 | 0.12 | 4.70 | 0.02 | 0.01 |
| 10.62 | 0.83 | 0.17 | 4.69 | 0.02 | 0.02 | 10.64 | 0.80 | 0.20 | 4.68 | 0.02 | 0.02 |
| 10.66 | 0.79 | 0.21 | 4.67 | 0.02 | 0.02 | 10.68 | 0.78 | 0.22 | 4.66 | 0.02 | 0.02 |
| 10.70 | 0.76 | 0.24 | 4.65 | 0.02 | 0.02 | 10.72 | 0.76 | 0.24 | 4.64 | 0.02 | 0.02 |
| 10.74 | 0.79 | 0.21 | 4.63 | 0.02 | 0.02 | 10.76 | 0.84 | 0.16 | 4.62 | 0.02 | 0.01 |
| 10.78 | 0.86 | 0.14 | 4.61 | 0.02 | 0.01 | 10.80 | 0.86 | 0.14 | 4.60 | 0.02 | 0.01 |
| 10.82 | 0.85 | 0.15 | 4.59 | 0.02 | 0.01 | 10.84 | 0.86 | 0.14 | 4.58 | 0.02 | 0.01 |
| 10.86 | 0.88 | 0.12 | 4.57 | 0.02 | 0.01 | 10.88 | 0.88 | 0.12 | 4.56 | 0.02 | 0.01 |
| 10.90 | 0.87 | 0.13 | 4.55 | 0.02 | 0.01 | 10.92 | 0.87 | 0.13 | 4.54 | 0.02 | 0.01 |
| 10.94 | 0.87 | 0.13 | 4.53 | 0.02 | 0.01 | 10.96 | 0.87 | 0.13 | 4.52 | 0.02 | 0.01 |
| 10.98 | 0.85 | 0.15 | 4.51 | 0.02 | 0.01 | 11.00 | 0.83 | 0.17 | 4.50 | 0.02 | 0.02 |
| 11.02 | 0.81 | 0.19 | 4.49 | 0.02 | 0.02 | 11.04 | 0.81 | 0.19 | 4.48 | 0.02 | 0.02 |
| 11.06 | 0.84 | 0.16 | 4.47 | 0.02 | 0.01 | 11.08 | 0.86 | 0.14 | 4.46 | 0.02 | 0.01 |
| 11.10 | 0.85 | 0.15 | 4.45 | 0.02 | 0.01 | 11.12 | 0.85 | 0.15 | 4.44 | 0.02 | 0.01 |
| 11.14 | 0.87 | 0.13 | 4.43 | 0.02 | 0.01 | 11.16 | 0.92 | 0.08 | 4.42 | 0.02 | 0.01 |
| 11.18 | 0.97 | 0.03 | 4.41 | 0.02 | 0.00 | 11.20 | 0.98 | 0.02 | 4.40 | 0.02 | 0.00 |
| 11.22 | 0.94 | 0.06 | 4.39 | 0.02 | 0.01 | 11.24 | 0.88 | 0.12 | 4.38 | 0.02 | 0.01 |
| 11.26 | 0.84 | 0.16 | 4.37 | 0.02 | 0.01 | 11.28 | 0.81 | 0.19 | 4.36 | 0.02 | 0.02 |
| 11.30 | 0.79 | 0.21 | 4.35 | 0.02 | 0.02 | 11.32 | 0.77 | 0.23 | 4.34 | 0.02 | 0.02 |
| 11.34 | 0.76 | 0.24 | 4.33 | 0.02 | 0.02 | 11.36 | 0.66 | 0.34 | 4.32 | 0.02 | 0.03 |
| 11.38 | 0.68 | 0.32 | 4.31 | 0.02 | 0.03 | 11.40 | 0.79 | 0.21 | 4.30 | 0.02 | 0.02 |
| 11.42 | 0.83 | 0.17 | 4.29 | 0.02 | 0.01 | 11.44 | 0.88 | 0.12 | 4.28 | 0.02 | 0.01 |
| 11.46 | 0.98 | 0.02 | 4.27 | 0.02 | 0.00 | 11.48 | 1.09 | 0.00 | 4.26 | 0.02 | 0.00 |
| 11.50 | 2.00 | 0.00 | 4.25 | 0.02 | 0.00 | 11.52 | 2.00 | 0.00 | 4.24 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 11.54 | 2.00 | 0.00 | 4.23 | 0.02 | 0.00 | 11.56 | 2.00 | 0.00 | 4.22 | 0.02 | 0.00 |
| 11.58 | 2.00 | 0.00 | 4.21 | 0.02 | 0.00 | 11.60 | 2.00 | 0.00 | 4.20 | 0.02 | 0.00 |
| 11.62 | 0.98 | 0.02 | 4.19 | 0.02 | 0.00 | 11.64 | 2.00 | 0.00 | 4.18 | 0.02 | 0.00 |
| 11.66 | 2.00 | 0.00 | 4.17 | 0.02 | 0.00 | 11.68 | 2.00 | 0.00 | 4.16 | 0.02 | 0.00 |
| 11.70 | 2.00 | 0.00 | 4.15 | 0.02 | 0.00 | 11.72 | 2.00 | 0.00 | 4.14 | 0.02 | 0.00 |
| 11.74 | 2.00 | 0.00 | 4.13 | 0.02 | 0.00 | 11.76 | 2.00 | 0.00 | 4.12 | 0.02 | 0.00 |
| 11.78 | 2.00 | 0.00 | 4.11 | 0.02 | 0.00 | 11.80 | 0.92 | 0.08 | 4.10 | 0.02 | 0.01 |
| 11.82 | 0.94 | 0.06 | 4.09 | 0.02 | 0.00 | 11.84 | 1.01 | 0.00 | 4.08 | 0.02 | 0.00 |
| 11.86 | 1.05 | 0.00 | 4.07 | 0.02 | 0.00 | 11.88 | 1.01 | 0.00 | 4.06 | 0.02 | 0.00 |
| 11.90 | 0.93 | 0.07 | 4.05 | 0.02 | 0.01 | 11.92 | 0.88 | 0.12 | 4.04 | 0.02 | 0.01 |
| 11.94 | 0.88 | 0.12 | 4.03 | 0.02 | 0.01 | 11.96 | 0.89 | 0.11 | 4.02 | 0.02 | 0.01 |
| 11.98 | 0.90 | 0.10 | 4.01 | 0.02 | 0.01 | 12.00 | 0.90 | 0.10 | 4.00 | 0.02 | 0.01 |
| 12.02 | 0.88 | 0.12 | 3.99 | 0.02 | 0.01 | 12.04 | 0.87 | 0.13 | 3.98 | 0.02 | 0.01 |
| 12.06 | 0.90 | 0.10 | 3.97 | 0.02 | 0.01 | 12.08 | 0.94 | 0.06 | 3.96 | 0.02 | 0.00 |
| 12.10 | 0.97 | 0.03 | 3.95 | 0.02 | 0.00 | 12.12 | 1.00 | 0.00 | 3.94 | 0.02 | 0.00 |
| 12.14 | 1.03 | 0.00 | 3.93 | 0.02 | 0.00 | 12.16 | 1.04 | 0.00 | 3.92 | 0.02 | 0.00 |
| 12.18 | 1.03 | 0.00 | 3.91 | 0.02 | 0.00 | 12.20 | 1.02 | 0.00 | 3.90 | 0.02 | 0.00 |
| 12.22 | 1.07 | 0.00 | 3.89 | 0.02 | 0.00 | 12.24 | 1.09 | 0.00 | 3.88 | 0.02 | 0.00 |
| 12.26 | 1.09 | 0.00 | 3.87 | 0.02 | 0.00 | 12.28 | 1.05 | 0.00 | 3.86 | 0.02 | 0.00 |
| 12.30 | 1.02 | 0.00 | 3.85 | 0.02 | 0.00 | 12.32 | 1.02 | 0.00 | 3.84 | 0.02 | 0.00 |
| 12.34 | 1.02 | 0.00 | 3.83 | 0.02 | 0.00 | 12.36 | 1.03 | 0.00 | 3.82 | 0.02 | 0.00 |
| 12.38 | 1.04 | 0.00 | 3.81 | 0.02 | 0.00 | 12.40 | 1.07 | 0.00 | 3.80 | 0.02 | 0.00 |
| 12.42 | 1.10 | 0.00 | 3.79 | 0.02 | 0.00 | 12.44 | 1.10 | 0.00 | 3.78 | 0.02 | 0.00 |
| 12.46 | 1.08 | 0.00 | 3.77 | 0.02 | 0.00 | 12.48 | 1.09 | 0.00 | 3.76 | 0.02 | 0.00 |
| 12.50 | 1.12 | 0.00 | 3.75 | 0.02 | 0.00 | 12.52 | 1.11 | 0.00 | 3.74 | 0.02 | 0.00 |
| 12.54 | 1.08 | 0.00 | 3.73 | 0.02 | 0.00 | 12.56 | 1.06 | 0.00 | 3.72 | 0.02 | 0.00 |
| 12.58 | 2.00 | 0.00 | 3.71 | 0.02 | 0.00 | 12.60 | 1.04 | 0.00 | 3.70 | 0.02 | 0.00 |
| 12.62 | 1.00 | 0.00 | 3.69 | 0.02 | 0.00 | 12.64 | 0.94 | 0.06 | 3.68 | 0.02 | 0.00 |
| 12.66 | 0.91 | 0.09 | 3.67 | 0.02 | 0.01 | 12.68 | 0.90 | 0.10 | 3.66 | 0.02 | 0.01 |
| 12.70 | 0.93 | 0.07 | 3.65 | 0.02 | 0.00 | 12.72 | 0.98 | 0.02 | 3.64 | 0.02 | 0.00 |
| 12.74 | 1.03 | 0.00 | 3.63 | 0.02 | 0.00 | 12.76 | 1.10 | 0.00 | 3.62 | 0.02 | 0.00 |
| 12.78 | 1.21 | 0.00 | 3.61 | 0.02 | 0.00 | 12.80 | 1.28 | 0.00 | 3.60 | 0.02 | 0.00 |
| 12.82 | 1.29 | 0.00 | 3.59 | 0.02 | 0.00 | 12.84 | 2.00 | 0.00 | 3.58 | 0.02 | 0.00 |
| 12.86 | 2.00 | 0.00 | 3.57 | 0.02 | 0.00 | 12.88 | 1.01 | 0.00 | 3.56 | 0.02 | 0.00 |
| 12.90 | 0.91 | 0.09 | 3.55 | 0.02 | 0.01 | 12.92 | 0.88 | 0.12 | 3.54 | 0.02 | 0.01 |
| 12.94 | 0.88 | 0.12 | 3.53 | 0.02 | 0.01 | 12.96 | 0.88 | 0.12 | 3.52 | 0.02 | 0.01 |
| 12.98 | 0.90 | 0.10 | 3.51 | 0.02 | 0.01 | 13.00 | 0.93 | 0.07 | 3.50 | 0.02 | 0.01 |
| 13.02 | 0.96 | 0.04 | 3.49 | 0.02 | 0.00 | 13.04 | 1.01 | 0.00 | 3.48 | 0.02 | 0.00 |
| 13.06 | 1.09 | 0.00 | 3.47 | 0.02 | 0.00 | 13.08 | 1.17 | 0.00 | 3.46 | 0.02 | 0.00 |
| 13.10 | 1.21 | 0.00 | 3.45 | 0.02 | 0.00 | 13.12 | 1.19 | 0.00 | 3.44 | 0.02 | 0.00 |
| 13.14 | 2.00 | 0.00 | 3.43 | 0.02 | 0.00 | 13.16 | 1.08 | 0.00 | 3.42 | 0.02 | 0.00 |
| 13.18 | 1.00 | 0.00 | 3.41 | 0.02 | 0.00 | 13.20 | 0.93 | 0.07 | 3.40 | 0.02 | 0.00 |
| 13.22 | 0.89 | 0.11 | 3.39 | 0.02 | 0.01 | 13.24 | 0.88 | 0.12 | 3.38 | 0.02 | 0.01 |
| 13.26 | 0.90 | 0.10 | 3.37 | 0.02 | 0.01 | 13.28 | 0.93 | 0.07 | 3.36 | 0.02 | 0.00 |
| 13.30 | 0.94 | 0.06 | 3.35 | 0.02 | 0.00 | 13.32 | 0.95 | 0.05 | 3.34 | 0.02 | 0.00 |
| 13.34 | 0.97 | 0.03 | 3.33 | 0.02 | 0.00 | 13.36 | 0.98 | 0.02 | 3.32 | 0.02 | 0.00 |
| 13.38 | 1.03 | 0.00 | 3.31 | 0.02 | 0.00 | 13.40 | 1.09 | 0.00 | 3.30 | 0.02 | 0.00 |
| 13.42 | 1.14 | 0.00 | 3.29 | 0.02 | 0.00 | 13.44 | 1.16 | 0.00 | 3.28 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 13.46 | 2.00 | 0.00 | 3.27 | 0.02 | 0.00 | 13.48 | 2.00 | 0.00 | 3.26 | 0.02 | 0.00 |
| 13.50 | 2.00 | 0.00 | 3.25 | 0.02 | 0.00 | 13.52 | 2.00 | 0.00 | 3.24 | 0.02 | 0.00 |
| 13.54 | 1.07 | 0.00 | 3.23 | 0.02 | 0.00 | 13.56 | 1.07 | 0.00 | 3.22 | 0.02 | 0.00 |
| 13.58 | 1.09 | 0.00 | 3.21 | 0.02 | 0.00 | 13.60 | 1.13 | 0.00 | 3.20 | 0.02 | 0.00 |
| 13.62 | 1.15 | 0.00 | 3.19 | 0.02 | 0.00 | 13.64 | 2.00 | 0.00 | 3.18 | 0.02 | 0.00 |
| 13.66 | 2.00 | 0.00 | 3.17 | 0.02 | 0.00 | 13.68 | 2.00 | 0.00 | 3.16 | 0.02 | 0.00 |
| 13.70 | 1.19 | 0.00 | 3.15 | 0.02 | 0.00 | 13.72 | 2.00 | 0.00 | 3.14 | 0.02 | 0.00 |
| 13.74 | 2.00 | 0.00 | 3.13 | 0.02 | 0.00 | 13.76 | 2.00 | 0.00 | 3.12 | 0.02 | 0.00 |
| 13.78 | 2.00 | 0.00 | 3.11 | 0.02 | 0.00 | 13.80 | 2.00 | 0.00 | 3.10 | 0.02 | 0.00 |
| 13.82 | 2.00 | 0.00 | 3.09 | 0.02 | 0.00 | 13.84 | 2.00 | 0.00 | 3.08 | 0.02 | 0.00 |
| 13.86 | 1.03 | 0.00 | 3.07 | 0.02 | 0.00 | 13.88 | 1.05 | 0.00 | 3.06 | 0.02 | 0.00 |
| 13.90 | 1.03 | 0.00 | 3.05 | 0.02 | 0.00 | 13.92 | 1.07 | 0.00 | 3.04 | 0.02 | 0.00 |
| 13.94 | 1.08 | 0.00 | 3.03 | 0.02 | 0.00 | 13.96 | 1.09 | 0.00 | 3.02 | 0.02 | 0.00 |
| 13.98 | 1.09 | 0.00 | 3.01 | 0.02 | 0.00 | 14.00 | 2.00 | 0.00 | 3.00 | 0.02 | 0.00 |
| 14.02 | 2.00 | 0.00 | 2.99 | 0.02 | 0.00 | 14.04 | 2.00 | 0.00 | 2.98 | 0.02 | 0.00 |
| 14.06 | 2.00 | 0.00 | 2.97 | 0.02 | 0.00 | 14.08 | 2.00 | 0.00 | 2.96 | 0.02 | 0.00 |
| 14.10 | 2.00 | 0.00 | 2.95 | 0.02 | 0.00 | 14.12 | 2.00 | 0.00 | 2.94 | 0.02 | 0.00 |
| 14.14 | 2.00 | 0.00 | 2.93 | 0.02 | 0.00 | 14.16 | 2.00 | 0.00 | 2.92 | 0.02 | 0.00 |
| 14.18 | 2.00 | 0.00 | 2.91 | 0.02 | 0.00 | 14.20 | 2.00 | 0.00 | 2.90 | 0.02 | 0.00 |
| 14.22 | 2.00 | 0.00 | 2.89 | 0.02 | 0.00 | 14.24 | 2.00 | 0.00 | 2.88 | 0.02 | 0.00 |
| 14.26 | 2.00 | 0.00 | 2.87 | 0.02 | 0.00 | 14.28 | 2.00 | 0.00 | 2.86 | 0.02 | 0.00 |
| 14.30 | 2.00 | 0.00 | 2.85 | 0.02 | 0.00 | 14.32 | 2.00 | 0.00 | 2.84 | 0.02 | 0.00 |
| 14.34 | 2.00 | 0.00 | 2.83 | 0.02 | 0.00 | 14.36 | 2.00 | 0.00 | 2.82 | 0.02 | 0.00 |
| 14.38 | 2.00 | 0.00 | 2.81 | 0.02 | 0.00 | 14.40 | 2.00 | 0.00 | 2.80 | 0.02 | 0.00 |
| 14.42 | 2.00 | 0.00 | 2.79 | 0.02 | 0.00 | 14.44 | 2.00 | 0.00 | 2.78 | 0.02 | 0.00 |
| 14.46 | 2.00 | 0.00 | 2.77 | 0.02 | 0.00 | 14.48 | 2.00 | 0.00 | 2.76 | 0.02 | 0.00 |
| 14.50 | 2.00 | 0.00 | 2.75 | 0.02 | 0.00 | 14.52 | 2.00 | 0.00 | 2.74 | 0.02 | 0.00 |
| 14.54 | 2.00 | 0.00 | 2.73 | 0.02 | 0.00 | 14.56 | 2.00 | 0.00 | 2.72 | 0.02 | 0.00 |
| 14.58 | 2.00 | 0.00 | 2.71 | 0.02 | 0.00 | 14.60 | 2.00 | 0.00 | 2.70 | 0.02 | 0.00 |
| 14.62 | 2.00 | 0.00 | 2.69 | 0.02 | 0.00 | 14.64 | 2.00 | 0.00 | 2.68 | 0.02 | 0.00 |
| 14.66 | 2.00 | 0.00 | 2.67 | 0.02 | 0.00 | 14.68 | 2.00 | 0.00 | 2.66 | 0.02 | 0.00 |
| 14.70 | 2.00 | 0.00 | 2.65 | 0.02 | 0.00 | 14.72 | 2.00 | 0.00 | 2.64 | 0.02 | 0.00 |
| 14.74 | 2.00 | 0.00 | 2.63 | 0.02 | 0.00 | 14.76 | 2.00 | 0.00 | 2.62 | 0.02 | 0.00 |
| 14.78 | 2.00 | 0.00 | 2.61 | 0.02 | 0.00 | 14.80 | 2.00 | 0.00 | 2.60 | 0.02 | 0.00 |
| 14.82 | 2.00 | 0.00 | 2.59 | 0.02 | 0.00 | 14.84 | 2.00 | 0.00 | 2.58 | 0.02 | 0.00 |
| 14.86 | 2.00 | 0.00 | 2.57 | 0.02 | 0.00 | 14.88 | 2.00 | 0.00 | 2.56 | 0.02 | 0.00 |
| 14.90 | 2.00 | 0.00 | 2.55 | 0.02 | 0.00 | 14.92 | 2.00 | 0.00 | 2.54 | 0.02 | 0.00 |
| 14.94 | 2.00 | 0.00 | 2.53 | 0.02 | 0.00 | 14.96 | 2.00 | 0.00 | 2.52 | 0.02 | 0.00 |
| 14.98 | 2.00 | 0.00 | 2.51 | 0.02 | 0.00 | 15.00 | 0.85 | 0.15 | 2.50 | 0.02 | 0.01 |
| 15.02 | 0.83 | 0.17 | 2.49 | 0.02 | 0.01 | 15.04 | 0.84 | 0.16 | 2.48 | 0.02 | 0.01 |
| 15.06 | 0.85 | 0.15 | 2.47 | 0.02 | 0.01 | 15.08 | 0.88 | 0.12 | 2.46 | 0.02 | 0.01 |
| 15.10 | 0.88 | 0.12 | 2.45 | 0.02 | 0.01 | 15.12 | 0.88 | 0.12 | 2.44 | 0.02 | 0.01 |
| 15.14 | 0.88 | 0.12 | 2.43 | 0.02 | 0.01 | 15.16 | 2.00 | 0.00 | 2.42 | 0.02 | 0.00 |
| 15.18 | 2.00 | 0.00 | 2.41 | 0.02 | 0.00 | 15.20 | 2.00 | 0.00 | 2.40 | 0.02 | 0.00 |
| 15.22 | 2.00 | 0.00 | 2.39 | 0.02 | 0.00 | 15.24 | 2.00 | 0.00 | 2.38 | 0.02 | 0.00 |
| 15.26 | 2.00 | 0.00 | 2.37 | 0.02 | 0.00 | 15.28 | 2.00 | 0.00 | 2.36 | 0.02 | 0.00 |
| 15.30 | 2.00 | 0.00 | 2.35 | 0.02 | 0.00 | 15.32 | 2.00 | 0.00 | 2.34 | 0.02 | 0.00 |
| 15.34 | 2.00 | 0.00 | 2.33 | 0.02 | 0.00 | 15.36 | 2.00 | 0.00 | 2.32 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 15.38 | 2.00 | 0.00 | 2.31 | 0.02 | 0.00 | 15.40 | 2.00 | 0.00 | 2.30 | 0.02 | 0.00 |
| 15.42 | 2.00 | 0.00 | 2.29 | 0.02 | 0.00 | 15.44 | 2.00 | 0.00 | 2.28 | 0.02 | 0.00 |
| 15.46 | 2.00 | 0.00 | 2.27 | 0.02 | 0.00 | 15.48 | 2.00 | 0.00 | 2.26 | 0.02 | 0.00 |
| 15.50 | 2.00 | 0.00 | 2.25 | 0.02 | 0.00 | 15.52 | 2.00 | 0.00 | 2.24 | 0.02 | 0.00 |
| 15.54 | 2.00 | 0.00 | 2.23 | 0.02 | 0.00 | 15.56 | 2.00 | 0.00 | 2.22 | 0.02 | 0.00 |
| 15.58 | 2.00 | 0.00 | 2.21 | 0.02 | 0.00 | 15.60 | 2.00 | 0.00 | 2.20 | 0.02 | 0.00 |
| 15.62 | 2.00 | 0.00 | 2.19 | 0.02 | 0.00 | 15.64 | 2.00 | 0.00 | 2.18 | 0.02 | 0.00 |
| 15.66 | 2.00 | 0.00 | 2.17 | 0.02 | 0.00 | 15.68 | 2.00 | 0.00 | 2.16 | 0.02 | 0.00 |
| 15.70 | 2.00 | 0.00 | 2.15 | 0.02 | 0.00 | 15.72 | 2.00 | 0.00 | 2.14 | 0.02 | 0.00 |
| 15.74 | 2.00 | 0.00 | 2.13 | 0.02 | 0.00 | 15.76 | 2.00 | 0.00 | 2.12 | 0.02 | 0.00 |
| 15.78 | 2.00 | 0.00 | 2.11 | 0.02 | 0.00 | 15.80 | 2.00 | 0.00 | 2.10 | 0.02 | 0.00 |
| 15.82 | 2.00 | 0.00 | 2.09 | 0.02 | 0.00 | 15.84 | 2.00 | 0.00 | 2.08 | 0.02 | 0.00 |
| 15.86 | 2.00 | 0.00 | 2.07 | 0.02 | 0.00 | 15.88 | 2.00 | 0.00 | 2.06 | 0.02 | 0.00 |
| 15.90 | 2.00 | 0.00 | 2.05 | 0.02 | 0.00 | 15.92 | 2.00 | 0.00 | 2.04 | 0.02 | 0.00 |
| 15.94 | 2.00 | 0.00 | 2.03 | 0.02 | 0.00 | 15.96 | 2.00 | 0.00 | 2.02 | 0.02 | 0.00 |
| 15.98 | 2.00 | 0.00 | 2.01 | 0.02 | 0.00 | 16.00 | 2.00 | 0.00 | 2.00 | 0.02 | 0.00 |
| 16.02 | 2.00 | 0.00 | 1.99 | 0.02 | 0.00 | 16.04 | 2.00 | 0.00 | 1.98 | 0.02 | 0.00 |
| 16.06 | 2.00 | 0.00 | 1.97 | 0.02 | 0.00 | 16.08 | 2.00 | 0.00 | 1.96 | 0.02 | 0.00 |
| 16.10 | 2.00 | 0.00 | 1.95 | 0.02 | 0.00 | 16.12 | 2.00 | 0.00 | 1.94 | 0.02 | 0.00 |
| 16.14 | 2.00 | 0.00 | 1.93 | 0.02 | 0.00 | 16.16 | 2.00 | 0.00 | 1.92 | 0.02 | 0.00 |
| 16.18 | 2.00 | 0.00 | 1.91 | 0.02 | 0.00 | 16.20 | 2.00 | 0.00 | 1.90 | 0.02 | 0.00 |
| 16.22 | 2.00 | 0.00 | 1.89 | 0.02 | 0.00 | 16.24 | 2.00 | 0.00 | 1.88 | 0.02 | 0.00 |
| 16.26 | 2.00 | 0.00 | 1.87 | 0.02 | 0.00 | 16.28 | 2.00 | 0.00 | 1.86 | 0.02 | 0.00 |
| 16.30 | 2.00 | 0.00 | 1.85 | 0.02 | 0.00 | 16.32 | 2.00 | 0.00 | 1.84 | 0.02 | 0.00 |
| 16.34 | 2.00 | 0.00 | 1.83 | 0.02 | 0.00 | 16.36 | 2.00 | 0.00 | 1.82 | 0.02 | 0.00 |
| 16.38 | 2.00 | 0.00 | 1.81 | 0.02 | 0.00 | 16.40 | 2.00 | 0.00 | 1.80 | 0.02 | 0.00 |
| 16.42 | 2.00 | 0.00 | 1.79 | 0.02 | 0.00 | 16.44 | 2.00 | 0.00 | 1.78 | 0.02 | 0.00 |
| 16.46 | 2.00 | 0.00 | 1.77 | 0.02 | 0.00 | 16.48 | 2.00 | 0.00 | 1.76 | 0.02 | 0.00 |
| 16.50 | 2.00 | 0.00 | 1.75 | 0.02 | 0.00 | 16.52 | 2.00 | 0.00 | 1.74 | 0.02 | 0.00 |
| 16.54 | 2.00 | 0.00 | 1.73 | 0.02 | 0.00 | 16.56 | 2.00 | 0.00 | 1.72 | 0.02 | 0.00 |
| 16.58 | 2.00 | 0.00 | 1.71 | 0.02 | 0.00 | 16.60 | 2.00 | 0.00 | 1.70 | 0.02 | 0.00 |
| 16.62 | 2.00 | 0.00 | 1.69 | 0.02 | 0.00 | 16.64 | 2.00 | 0.00 | 1.68 | 0.02 | 0.00 |
| 16.66 | 2.00 | 0.00 | 1.67 | 0.02 | 0.00 | 16.68 | 2.00 | 0.00 | 1.66 | 0.02 | 0.00 |
| 16.70 | 2.00 | 0.00 | 1.65 | 0.02 | 0.00 | 16.72 | 2.00 | 0.00 | 1.64 | 0.02 | 0.00 |
| 16.74 | 2.00 | 0.00 | 1.63 | 0.02 | 0.00 | 16.76 | 2.00 | 0.00 | 1.62 | 0.02 | 0.00 |
| 16.78 | 2.00 | 0.00 | 1.61 | 0.02 | 0.00 | 16.80 | 2.00 | 0.00 | 1.60 | 0.02 | 0.00 |
| 16.82 | 2.00 | 0.00 | 1.59 | 0.02 | 0.00 | 16.84 | 2.00 | 0.00 | 1.58 | 0.02 | 0.00 |
| 16.86 | 2.00 | 0.00 | 1.57 | 0.02 | 0.00 | 16.88 | 2.00 | 0.00 | 1.56 | 0.02 | 0.00 |
| 16.90 | 2.00 | 0.00 | 1.55 | 0.02 | 0.00 | 16.92 | 0.96 | 0.04 | 1.54 | 0.02 | 0.00 |
| 16.94 | 0.95 | 0.05 | 1.53 | 0.02 | 0.00 | 16.96 | 0.95 | 0.05 | 1.52 | 0.02 | 0.00 |
| 16.98 | 0.95 | 0.05 | 1.51 | 0.02 | 0.00 | 17.00 | 0.94 | 0.06 | 1.50 | 0.02 | 0.00 |
| 17.02 | 0.94 | 0.06 | 1.49 | 0.02 | 0.00 | 17.04 | 0.96 | 0.04 | 1.48 | 0.02 | 0.00 |
| 17.06 | 1.00 | 0.00 | 1.47 | 0.02 | 0.00 | 17.08 | 1.06 | 0.00 | 1.46 | 0.02 | 0.00 |
| 17.10 | 2.00 | 0.00 | 1.45 | 0.02 | 0.00 | 17.12 | 2.00 | 0.00 | 1.44 | 0.02 | 0.00 |
| 17.14 | 2.00 | 0.00 | 1.43 | 0.02 | 0.00 | 17.16 | 2.00 | 0.00 | 1.42 | 0.02 | 0.00 |
| 17.18 | 2.00 | 0.00 | 1.41 | 0.02 | 0.00 | 17.20 | 2.00 | 0.00 | 1.40 | 0.02 | 0.00 |
| 17.22 | 2.00 | 0.00 | 1.39 | 0.02 | 0.00 | 17.24 | 2.00 | 0.00 | 1.38 | 0.02 | 0.00 |
| 17.26 | 2.00 | 0.00 | 1.37 | 0.02 | 0.00 | 17.28 | 2.00 | 0.00 | 1.36 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 17.30 | 2.00 | 0.00 | 1.35 | 0.02 | 0.00 | 17.32 | 2.00 | 0.00 | 1.34 | 0.02 | 0.00 |
| 17.34 | 2.00 | 0.00 | 1.33 | 0.02 | 0.00 | 17.36 | 2.00 | 0.00 | 1.32 | 0.02 | 0.00 |
| 17.38 | 2.00 | 0.00 | 1.31 | 0.02 | 0.00 | 17.40 | 2.00 | 0.00 | 1.30 | 0.02 | 0.00 |
| 17.42 | 2.00 | 0.00 | 1.29 | 0.02 | 0.00 | 17.44 | 2.00 | 0.00 | 1.28 | 0.02 | 0.00 |
| 17.46 | 2.00 | 0.00 | 1.27 | 0.02 | 0.00 | 17.48 | 2.00 | 0.00 | 1.26 | 0.02 | 0.00 |
| 17.50 | 2.00 | 0.00 | 1.25 | 0.02 | 0.00 | 17.52 | 2.00 | 0.00 | 1.24 | 0.02 | 0.00 |
| 17.54 | 2.00 | 0.00 | 1.23 | 0.02 | 0.00 | 17.56 | 2.00 | 0.00 | 1.22 | 0.02 | 0.00 |
| 17.58 | 2.00 | 0.00 | 1.21 | 0.02 | 0.00 | 17.60 | 2.00 | 0.00 | 1.20 | 0.02 | 0.00 |
| 17.62 | 2.00 | 0.00 | 1.19 | 0.02 | 0.00 | 17.64 | 2.00 | 0.00 | 1.18 | 0.02 | 0.00 |
| 17.66 | 2.00 | 0.00 | 1.17 | 0.02 | 0.00 | 17.68 | 2.00 | 0.00 | 1.16 | 0.02 | 0.00 |
| 17.70 | 2.00 | 0.00 | 1.15 | 0.02 | 0.00 | 17.72 | 2.00 | 0.00 | 1.14 | 0.02 | 0.00 |
| 17.74 | 2.00 | 0.00 | 1.13 | 0.02 | 0.00 | 17.76 | 2.00 | 0.00 | 1.12 | 0.02 | 0.00 |
| 17.78 | 2.00 | 0.00 | 1.11 | 0.02 | 0.00 | 17.80 | 2.00 | 0.00 | 1.10 | 0.02 | 0.00 |
| 17.82 | 2.00 | 0.00 | 1.09 | 0.02 | 0.00 | 17.84 | 2.00 | 0.00 | 1.08 | 0.02 | 0.00 |
| 17.86 | 2.00 | 0.00 | 1.07 | 0.02 | 0.00 | 17.88 | 2.00 | 0.00 | 1.06 | 0.02 | 0.00 |
| 17.90 | 2.00 | 0.00 | 1.05 | 0.02 | 0.00 | 17.92 | 2.00 | 0.00 | 1.04 | 0.02 | 0.00 |
| 17.94 | 2.00 | 0.00 | 1.03 | 0.02 | 0.00 | 17.96 | 2.00 | 0.00 | 1.02 | 0.02 | 0.00 |
| 17.98 | 2.00 | 0.00 | 1.01 | 0.02 | 0.00 | 18.00 | 2.00 | 0.00 | 1.00 | 0.02 | 0.00 |
| 18.02 | 2.00 | 0.00 | 0.99 | 0.02 | 0.00 | 18.04 | 2.00 | 0.00 | 0.98 | 0.02 | 0.00 |
| 18.06 | 2.00 | 0.00 | 0.97 | 0.02 | 0.00 | 18.08 | 2.00 | 0.00 | 0.96 | 0.02 | 0.00 |
| 18.10 | 2.00 | 0.00 | 0.95 | 0.02 | 0.00 | 18.12 | 2.00 | 0.00 | 0.94 | 0.02 | 0.00 |
| 18.14 | 2.00 | 0.00 | 0.93 | 0.02 | 0.00 | 18.16 | 2.00 | 0.00 | 0.92 | 0.02 | 0.00 |
| 18.18 | 2.00 | 0.00 | 0.91 | 0.02 | 0.00 | 18.20 | 2.00 | 0.00 | 0.90 | 0.02 | 0.00 |
| 18.22 | 2.00 | 0.00 | 0.89 | 0.02 | 0.00 | 18.24 | 2.00 | 0.00 | 0.88 | 0.02 | 0.00 |
| 18.26 | 2.00 | 0.00 | 0.87 | 0.02 | 0.00 | 18.28 | 2.00 | 0.00 | 0.86 | 0.02 | 0.00 |
| 18.30 | 2.00 | 0.00 | 0.85 | 0.02 | 0.00 | 18.32 | 2.00 | 0.00 | 0.84 | 0.02 | 0.00 |
| 18.34 | 2.00 | 0.00 | 0.83 | 0.02 | 0.00 | 18.36 | 2.00 | 0.00 | 0.82 | 0.02 | 0.00 |
| 18.38 | 2.00 | 0.00 | 0.81 | 0.02 | 0.00 | 18.40 | 2.00 | 0.00 | 0.80 | 0.02 | 0.00 |
| 18.42 | 2.00 | 0.00 | 0.79 | 0.02 | 0.00 | 18.44 | 2.00 | 0.00 | 0.78 | 0.02 | 0.00 |
| 18.46 | 2.00 | 0.00 | 0.77 | 0.02 | 0.00 | 18.48 | 2.00 | 0.00 | 0.76 | 0.02 | 0.00 |
| 18.50 | 2.00 | 0.00 | 0.75 | 0.02 | 0.00 | 18.52 | 2.00 | 0.00 | 0.74 | 0.02 | 0.00 |
| 18.54 | 2.00 | 0.00 | 0.73 | 0.02 | 0.00 | 18.56 | 2.00 | 0.00 | 0.72 | 0.02 | 0.00 |
| 18.58 | 2.00 | 0.00 | 0.71 | 0.02 | 0.00 | 18.60 | 2.00 | 0.00 | 0.70 | 0.02 | 0.00 |
| 18.62 | 2.00 | 0.00 | 0.69 | 0.02 | 0.00 | 18.64 | 2.00 | 0.00 | 0.68 | 0.02 | 0.00 |
| 18.66 | 2.00 | 0.00 | 0.67 | 0.02 | 0.00 | 18.68 | 2.00 | 0.00 | 0.66 | 0.02 | 0.00 |
| 18.70 | 2.00 | 0.00 | 0.65 | 0.02 | 0.00 | 18.72 | 2.00 | 0.00 | 0.64 | 0.02 | 0.00 |
| 18.74 | 2.00 | 0.00 | 0.63 | 0.02 | 0.00 | 18.76 | 2.00 | 0.00 | 0.62 | 0.02 | 0.00 |
| 18.78 | 2.00 | 0.00 | 0.61 | 0.02 | 0.00 | 18.80 | 2.00 | 0.00 | 0.60 | 0.02 | 0.00 |
| 18.82 | 2.00 | 0.00 | 0.59 | 0.02 | 0.00 | 18.84 | 2.00 | 0.00 | 0.58 | 0.02 | 0.00 |
| 18.86 | 2.00 | 0.00 | 0.57 | 0.02 | 0.00 | 18.88 | 2.00 | 0.00 | 0.56 | 0.02 | 0.00 |
| 18.90 | 2.00 | 0.00 | 0.55 | 0.02 | 0.00 | 18.92 | 2.00 | 0.00 | 0.54 | 0.02 | 0.00 |
| 18.94 | 2.00 | 0.00 | 0.53 | 0.02 | 0.00 | 18.96 | 2.00 | 0.00 | 0.52 | 0.02 | 0.00 |
| 18.98 | 2.00 | 0.00 | 0.51 | 0.02 | 0.00 | 19.00 | 2.00 | 0.00 | 0.50 | 0.02 | 0.00 |
| 19.02 | 2.00 | 0.00 | 0.49 | 0.02 | 0.00 | 19.04 | 2.00 | 0.00 | 0.48 | 0.02 | 0.00 |
| 19.06 | 2.00 | 0.00 | 0.47 | 0.02 | 0.00 | 19.08 | 2.00 | 0.00 | 0.46 | 0.02 | 0.00 |
| 19.10 | 2.00 | 0.00 | 0.45 | 0.02 | 0.00 | 19.12 | 2.00 | 0.00 | 0.44 | 0.02 | 0.00 |
| 19.14 | 2.00 | 0.00 | 0.43 | 0.02 | 0.00 | 19.16 | 2.00 | 0.00 | 0.42 | 0.02 | 0.00 |
| 19.18 | 2.00 | 0.00 | 0.41 | 0.02 | 0.00 | 19.20 | 2.00 | 0.00 | 0.40 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 19.22 | 2.00 | 0.00 | 0.39 | 0.02 | 0.00 | 19.24 | 2.00 | 0.00 | 0.38 | 0.02 | 0.00 |
| 19.26 | 2.00 | 0.00 | 0.37 | 0.02 | 0.00 | 19.28 | 2.00 | 0.00 | 0.36 | 0.02 | 0.00 |
| 19.30 | 2.00 | 0.00 | 0.35 | 0.02 | 0.00 | 19.32 | 2.00 | 0.00 | 0.34 | 0.02 | 0.00 |
| 19.34 | 2.00 | 0.00 | 0.33 | 0.02 | 0.00 | 19.36 | 2.00 | 0.00 | 0.32 | 0.02 | 0.00 |
| 19.38 | 2.00 | 0.00 | 0.31 | 0.02 | 0.00 | 19.40 | 2.00 | 0.00 | 0.30 | 0.02 | 0.00 |
| 19.42 | 2.00 | 0.00 | 0.29 | 0.02 | 0.00 | 19.44 | 2.00 | 0.00 | 0.28 | 0.02 | 0.00 |
| 19.46 | 2.00 | 0.00 | 0.27 | 0.02 | 0.00 | 19.48 | 2.00 | 0.00 | 0.26 | 0.02 | 0.00 |
| 19.50 | 2.00 | 0.00 | 0.25 | 0.02 | 0.00 | 19.52 | 2.00 | 0.00 | 0.24 | 0.02 | 0.00 |
| 19.54 | 2.00 | 0.00 | 0.23 | 0.02 | 0.00 | 19.56 | 2.00 | 0.00 | 0.22 | 0.02 | 0.00 |
| 19.58 | 2.00 | 0.00 | 0.21 | 0.02 | 0.00 | 19.60 | 2.00 | 0.00 | 0.20 | 0.02 | 0.00 |
| 19.62 | 2.00 | 0.00 | 0.19 | 0.02 | 0.00 | 19.64 | 2.00 | 0.00 | 0.18 | 0.02 | 0.00 |
| 19.66 | 2.00 | 0.00 | 0.17 | 0.02 | 0.00 | 19.68 | 2.00 | 0.00 | 0.16 | 0.02 | 0.00 |
| 19.70 | 2.00 | 0.00 | 0.15 | 0.02 | 0.00 | 19.72 | 2.00 | 0.00 | 0.14 | 0.02 | 0.00 |
| 19.74 | 2.00 | 0.00 | 0.13 | 0.02 | 0.00 | 19.76 | 2.00 | 0.00 | 0.12 | 0.02 | 0.00 |
| 19.78 | 2.00 | 0.00 | 0.11 | 0.02 | 0.00 | 19.80 | 2.00 | 0.00 | 0.10 | 0.02 | 0.00 |
| 19.82 | 2.00 | 0.00 | 0.09 | 0.02 | 0.00 | 19.84 | 2.00 | 0.00 | 0.08 | 0.02 | 0.00 |
| 19.86 | 2.00 | 0.00 | 0.07 | 0.02 | 0.00 | 19.88 | 2.00 | 0.00 | 0.06 | 0.02 | 0.00 |

Overall liquefaction potential: 1.04

LPI = 0.00 - Liquefaction risk very low

LPI between 0.00 and 5.00 - Liquefaction risk low

LPI between 5.00 and 15.00 - Liquefaction risk high

LPI > 15.00 - Liquefaction risk very high

Abbreviations

FS: Calculated factor of safety for test point

F_L: 1 - FSw_z: Function value of the extend of soil liquefaction according to depthd_z: Layer thickness (m)

LPI: Liquefaction potential index value for test point

LIQUEFACTION ANALYSIS REPORT

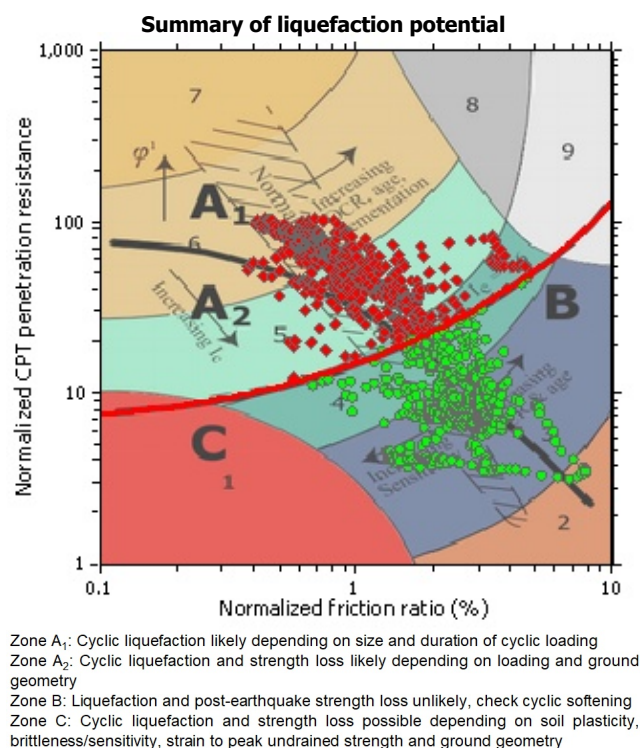
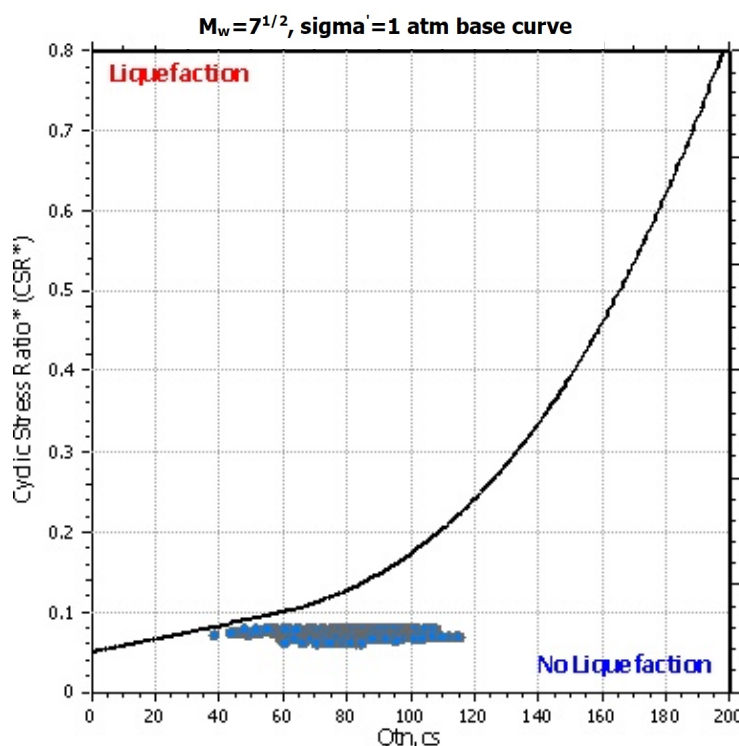
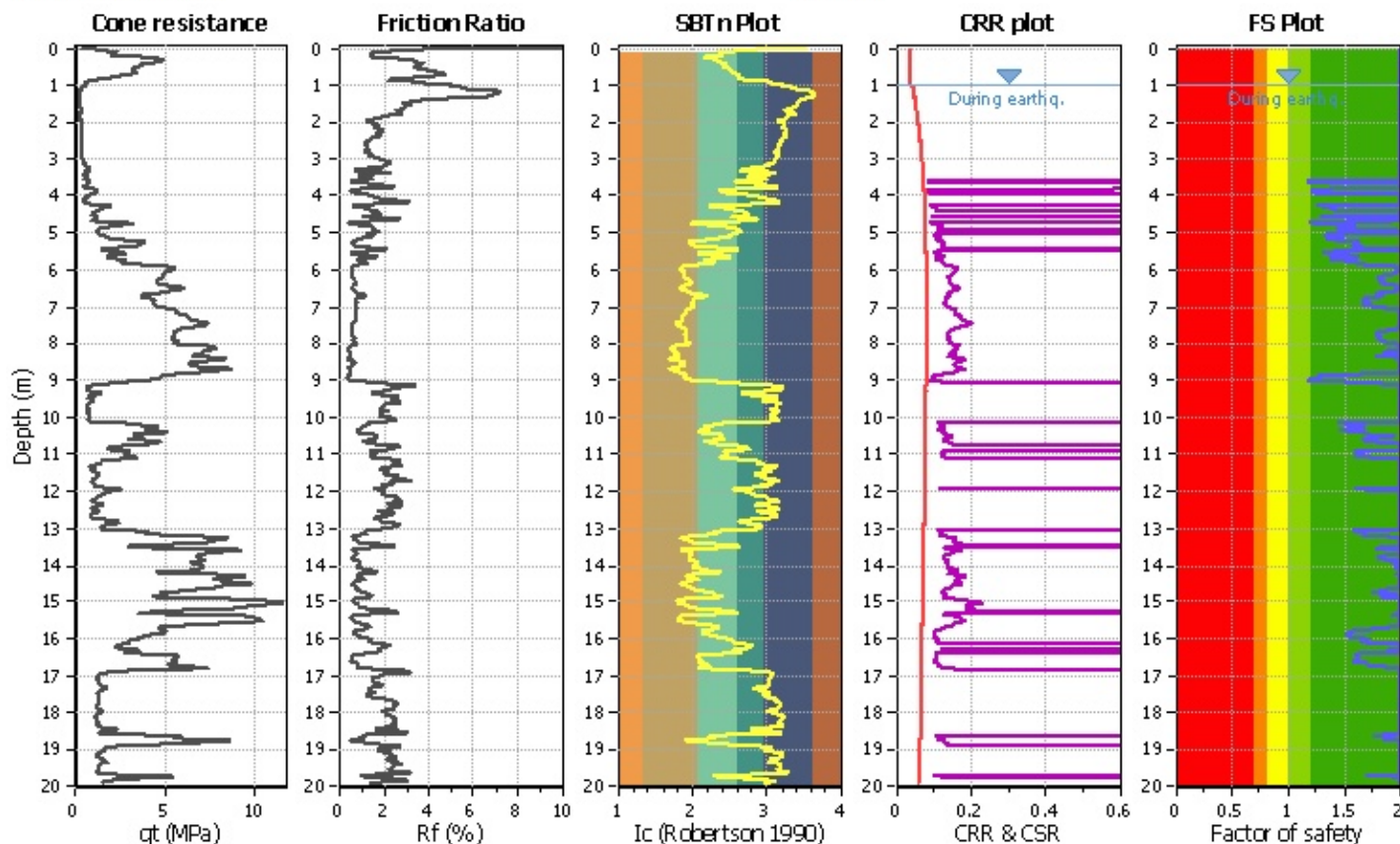
Project title :

Location :

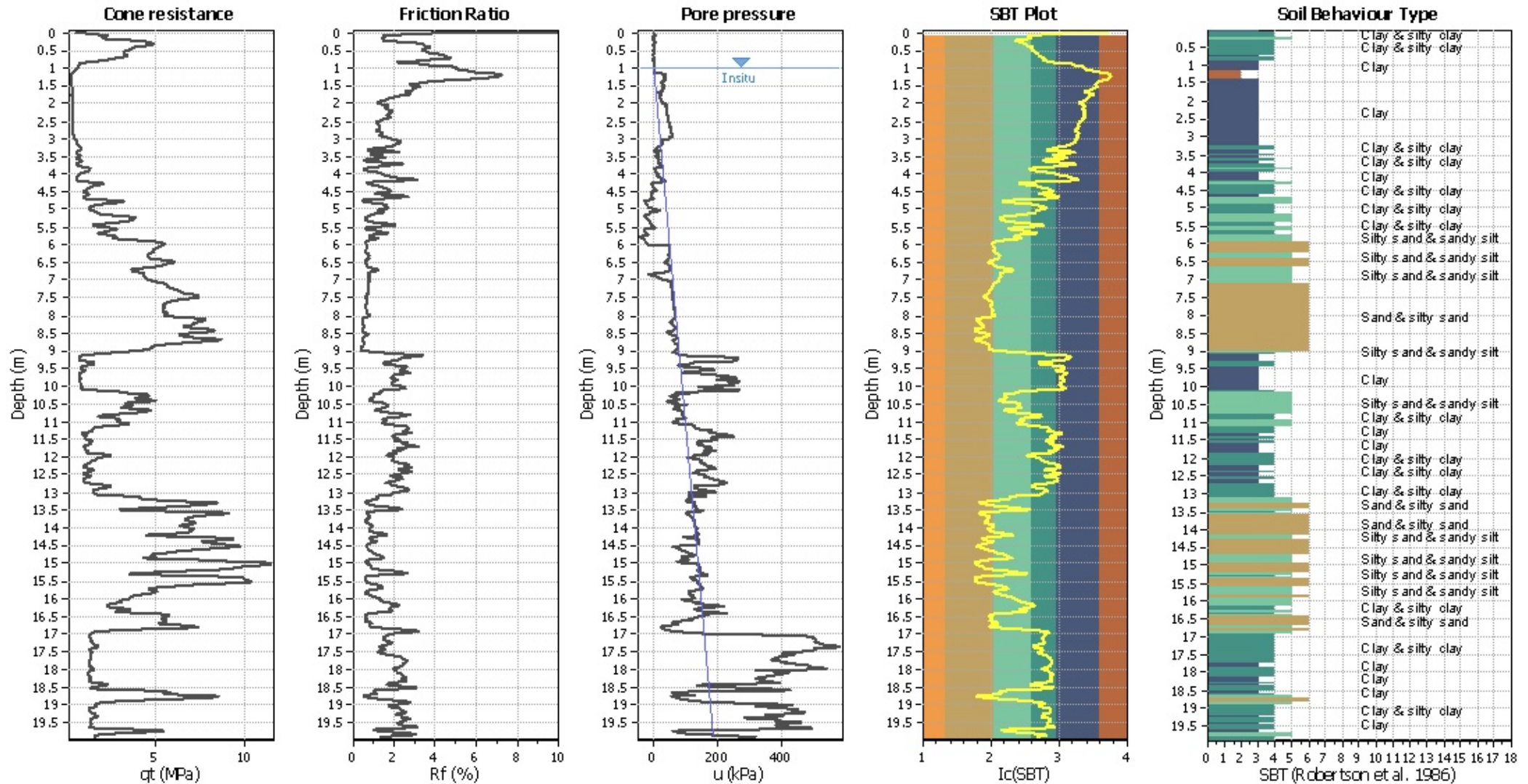
CPT file : CPTU4

Input parameters and analysis data

| | | | | | | | |
|------------------------------|-------------------|---------------------------|--------------|-------------------------|-----|----------------------|--------------|
| Analysis method: | NCEER (1998) | G.W.T. (in-situ): | 1.00 m | Use fill: | No | Clay like behavior | |
| Fines correction method: | NCEER (1998) | G.W.T. (earthq.): | 1.00 m | Fill height: | N/A | applied: | Sands only |
| Points to test: | Based on Ic value | Average results interval: | 3 | Fill weight: | N/A | Limit depth applied: | No |
| Earthquake magnitude M_w : | 5.00 | Ic cut-off value: | 2.60 | Trans. detect. applied: | No | Limit depth: | N/A |
| Peak ground acceleration: | 0.17 | Unit weight calculation: | Based on SBT | K_0 applied: | Yes | MSF method: | Method based |



CPT basic interpretation plo



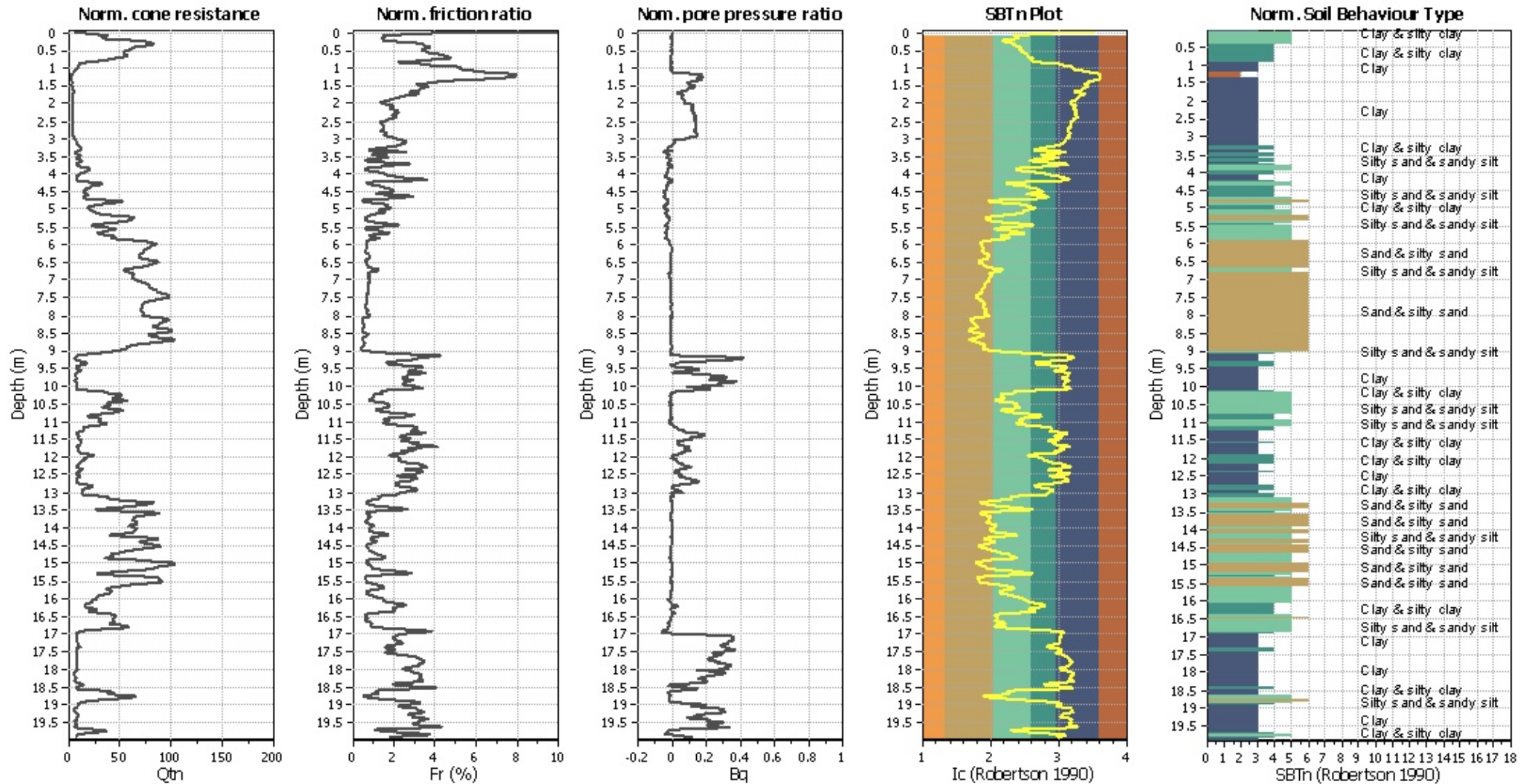
Input parameters and analysis data

| | | | | | |
|---------------------------------------|-------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K ₀ applied: | Yes |
| Earthquake magnitude M _w : | 5.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

SBT legend

| | | |
|---------------------------|-----------------------------|----------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty | 7. Gravely sand to sand |
| 2. Organic material | 5. Silty sand to sandy silt | 8. Very stiff sand to |
| 3. Clay to silty clay | 6. Clean sand to silty sand | 9. Very stiff fine grained |

CPT basic interpretation plots (normaliz



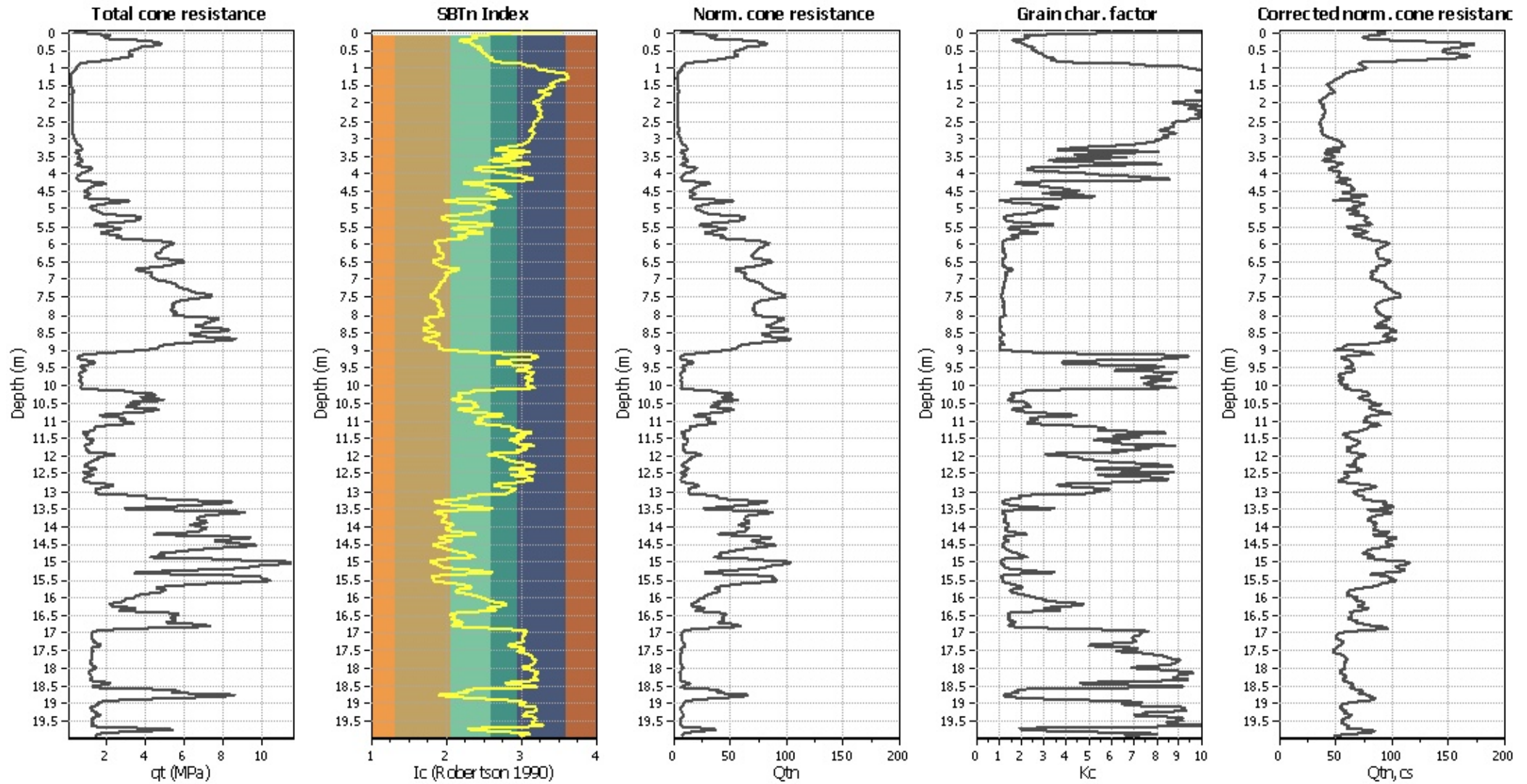
Input parameters and analysis data

| | | | | | |
|---------------------------------------|-------------------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I _c value | I _c cut-off value: | 2.60 | K ₀ applied: | Yes |
| Earthquake magnitude M _w : | 5.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

SBTn legend

| | | |
|---------------------------|-----------------------------|----------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty | 7. Gravely sand to sand |
| 2. Organic material | 5. Silty sand to sandy silt | 8. Very stiff sand to |
| 3. Clay to silty clay | 6. Clean sand to silty sand | 9. Very stiff fine grained |

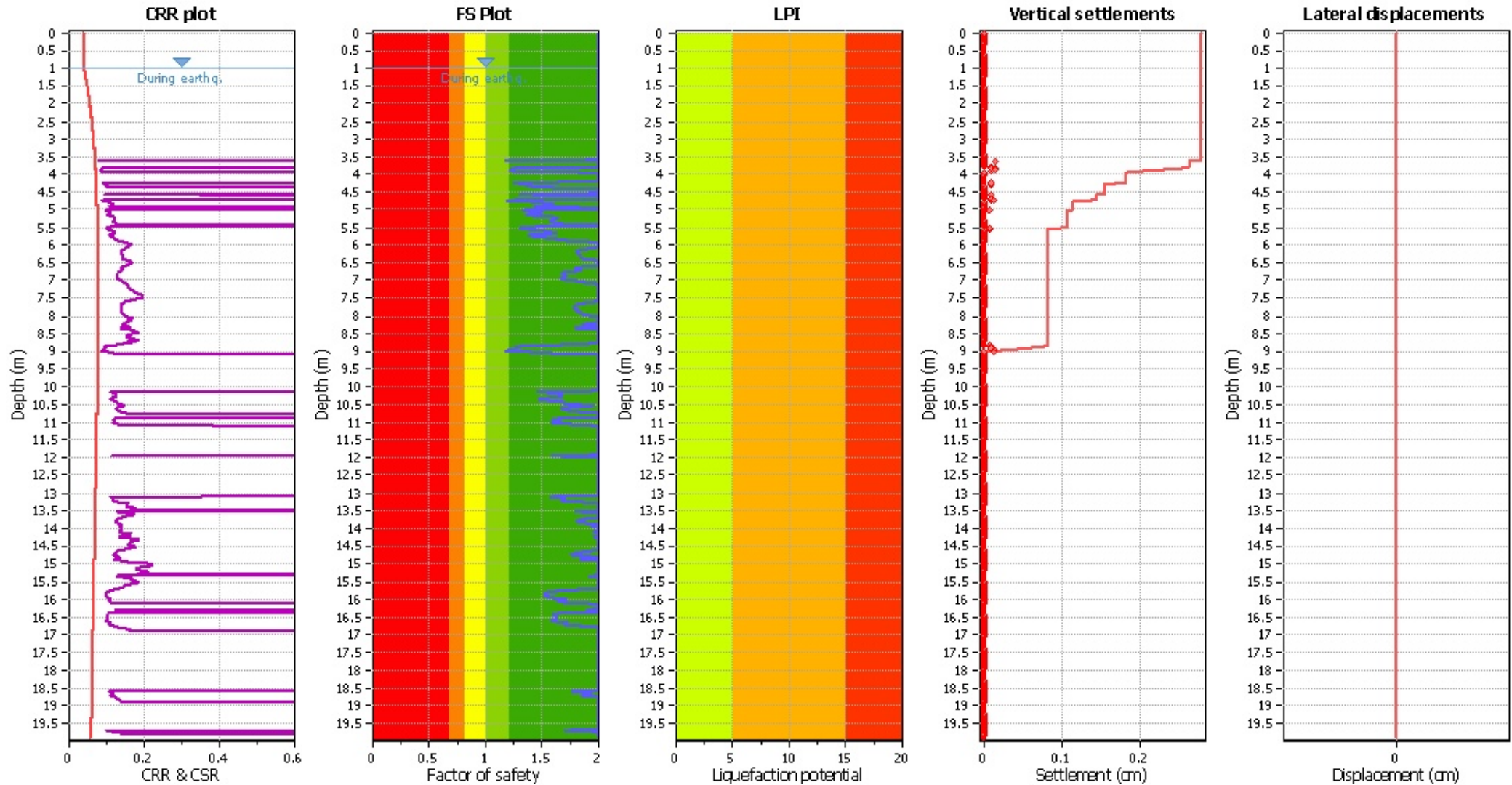
Liquefaction analysis overall plots (intermediate res)



Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 5.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

Liquefaction analysis overall plot



Input parameters and analysis data

| | | | | | |
|--------------------------------|-------------------|---------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (earthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 5.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

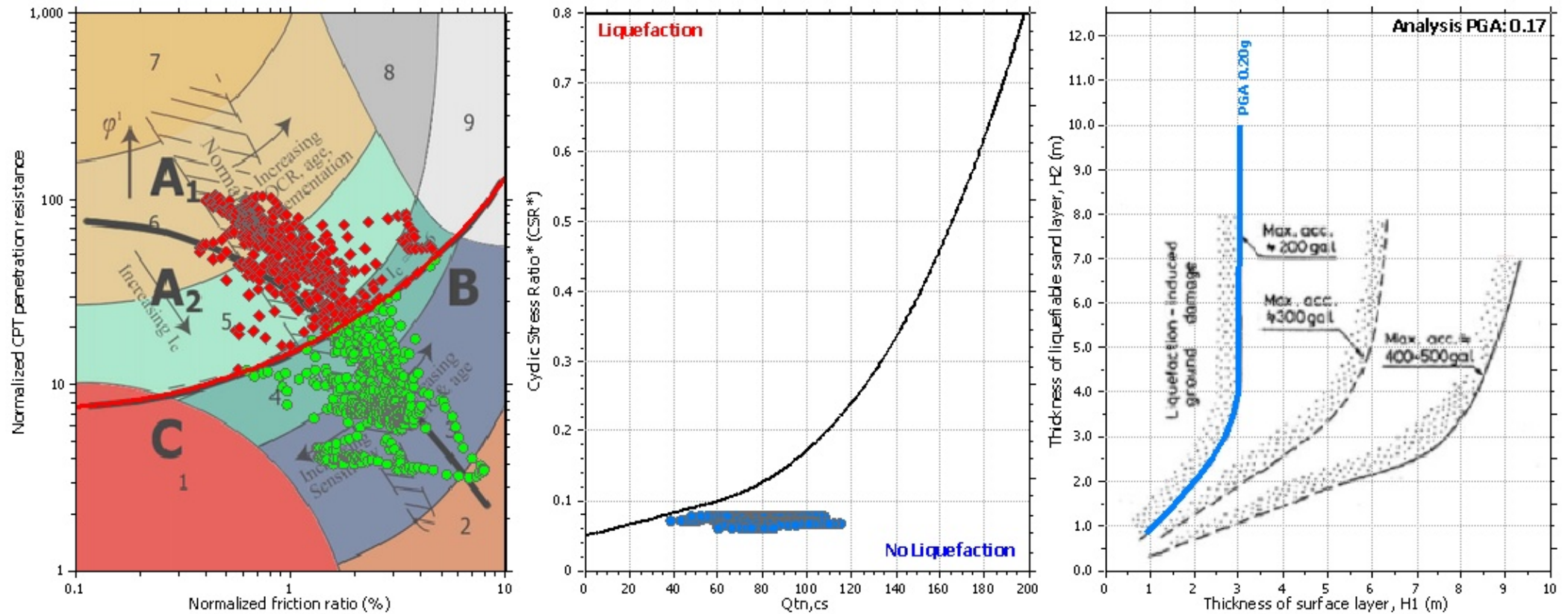
F.S. color scheme

| | |
|---|---|
| ■ | Almost certain it will liquefy |
| ■ | Very likely to liquefy |
| ■ | Liquefaction and no liq. are equally likely |
| ■ | Unlike to liquefy |
| ■ | Almost certain it will not liquefy |

LPI color scheme

| | |
|---------------------------------------|----------------|
| ■ | Very high risk |
| ■ | High risk |
| ■ | Low risk |

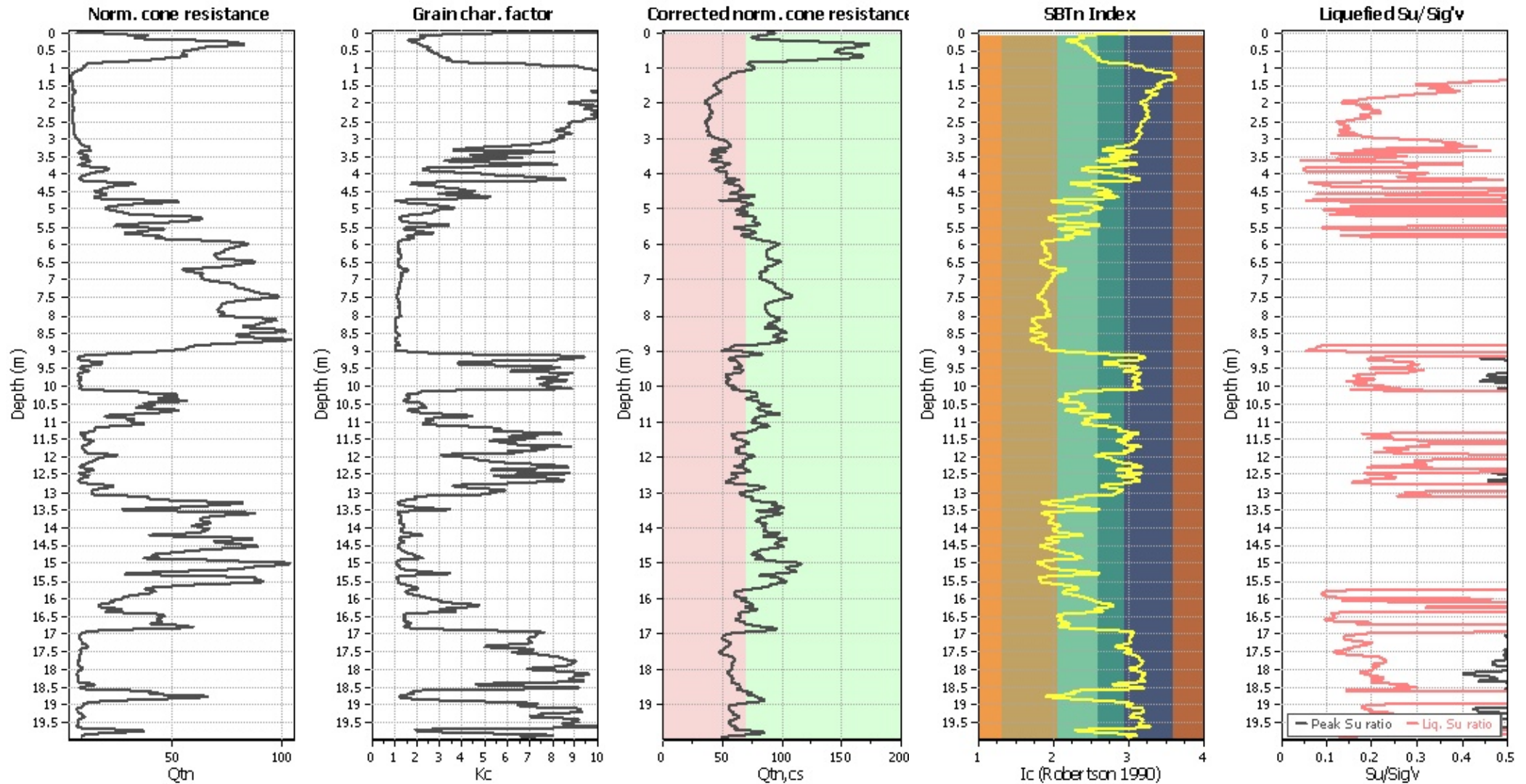
Liquefaction analysis summary plo



Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 5.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

Check for strength loss plots (Robertson (2010))



Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 5.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

| :: Liquefaction Potential Index calculation data :: | | | | | | | | | | | |
|---|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
| 0.02 | 2.00 | 0.00 | 9.99 | 0.02 | 0.00 | 0.04 | 2.00 | 0.00 | 9.98 | 0.02 | 0.00 |
| 0.06 | 2.00 | 0.00 | 9.97 | 0.02 | 0.00 | 0.08 | 2.00 | 0.00 | 9.96 | 0.02 | 0.00 |
| 0.10 | 2.00 | 0.00 | 9.95 | 0.02 | 0.00 | 0.12 | 2.00 | 0.00 | 9.94 | 0.02 | 0.00 |
| 0.14 | 2.00 | 0.00 | 9.93 | 0.02 | 0.00 | 0.16 | 2.00 | 0.00 | 9.92 | 0.02 | 0.00 |
| 0.18 | 2.00 | 0.00 | 9.91 | 0.02 | 0.00 | 0.20 | 2.00 | 0.00 | 9.90 | 0.02 | 0.00 |
| 0.22 | 2.00 | 0.00 | 9.89 | 0.02 | 0.00 | 0.24 | 2.00 | 0.00 | 9.88 | 0.02 | 0.00 |
| 0.26 | 2.00 | 0.00 | 9.87 | 0.02 | 0.00 | 0.28 | 2.00 | 0.00 | 9.86 | 0.02 | 0.00 |
| 0.30 | 2.00 | 0.00 | 9.85 | 0.02 | 0.00 | 0.32 | 2.00 | 0.00 | 9.84 | 0.02 | 0.00 |
| 0.34 | 2.00 | 0.00 | 9.83 | 0.02 | 0.00 | 0.36 | 2.00 | 0.00 | 9.82 | 0.02 | 0.00 |
| 0.38 | 2.00 | 0.00 | 9.81 | 0.02 | 0.00 | 0.40 | 2.00 | 0.00 | 9.80 | 0.02 | 0.00 |
| 0.42 | 2.00 | 0.00 | 9.79 | 0.02 | 0.00 | 0.44 | 2.00 | 0.00 | 9.78 | 0.02 | 0.00 |
| 0.46 | 2.00 | 0.00 | 9.77 | 0.02 | 0.00 | 0.48 | 2.00 | 0.00 | 9.76 | 0.02 | 0.00 |
| 0.50 | 2.00 | 0.00 | 9.75 | 0.02 | 0.00 | 0.52 | 2.00 | 0.00 | 9.74 | 0.02 | 0.00 |
| 0.54 | 2.00 | 0.00 | 9.73 | 0.02 | 0.00 | 0.56 | 2.00 | 0.00 | 9.72 | 0.02 | 0.00 |
| 0.58 | 2.00 | 0.00 | 9.71 | 0.02 | 0.00 | 0.60 | 2.00 | 0.00 | 9.70 | 0.02 | 0.00 |
| 0.62 | 2.00 | 0.00 | 9.69 | 0.02 | 0.00 | 0.64 | 2.00 | 0.00 | 9.68 | 0.02 | 0.00 |
| 0.66 | 2.00 | 0.00 | 9.67 | 0.02 | 0.00 | 0.68 | 2.00 | 0.00 | 9.66 | 0.02 | 0.00 |
| 0.70 | 2.00 | 0.00 | 9.65 | 0.02 | 0.00 | 0.72 | 2.00 | 0.00 | 9.64 | 0.02 | 0.00 |
| 0.74 | 2.00 | 0.00 | 9.63 | 0.02 | 0.00 | 0.76 | 2.00 | 0.00 | 9.62 | 0.02 | 0.00 |
| 0.78 | 2.00 | 0.00 | 9.61 | 0.02 | 0.00 | 0.80 | 2.00 | 0.00 | 9.60 | 0.02 | 0.00 |
| 0.82 | 2.00 | 0.00 | 9.59 | 0.02 | 0.00 | 0.84 | 2.00 | 0.00 | 9.58 | 0.02 | 0.00 |
| 0.86 | 2.00 | 0.00 | 9.57 | 0.02 | 0.00 | 0.88 | 2.00 | 0.00 | 9.56 | 0.02 | 0.00 |
| 0.90 | 2.00 | 0.00 | 9.55 | 0.02 | 0.00 | 0.92 | 2.00 | 0.00 | 9.54 | 0.02 | 0.00 |
| 0.94 | 2.00 | 0.00 | 9.53 | 0.02 | 0.00 | 0.96 | 2.00 | 0.00 | 9.52 | 0.02 | 0.00 |
| 0.98 | 2.00 | 0.00 | 9.51 | 0.02 | 0.00 | 1.00 | 2.00 | 0.00 | 9.50 | 0.02 | 0.00 |
| 1.02 | 2.00 | 0.00 | 9.49 | 0.02 | 0.00 | 1.04 | 2.00 | 0.00 | 9.48 | 0.02 | 0.00 |
| 1.06 | 2.00 | 0.00 | 9.47 | 0.02 | 0.00 | 1.08 | 2.00 | 0.00 | 9.46 | 0.02 | 0.00 |
| 1.10 | 2.00 | 0.00 | 9.45 | 0.02 | 0.00 | 1.12 | 2.00 | 0.00 | 9.44 | 0.02 | 0.00 |
| 1.14 | 2.00 | 0.00 | 9.43 | 0.02 | 0.00 | 1.16 | 2.00 | 0.00 | 9.42 | 0.02 | 0.00 |
| 1.18 | 2.00 | 0.00 | 9.41 | 0.02 | 0.00 | 1.20 | 2.00 | 0.00 | 9.40 | 0.02 | 0.00 |
| 1.22 | 2.00 | 0.00 | 9.39 | 0.02 | 0.00 | 1.24 | 2.00 | 0.00 | 9.38 | 0.02 | 0.00 |
| 1.26 | 2.00 | 0.00 | 9.37 | 0.02 | 0.00 | 1.28 | 2.00 | 0.00 | 9.36 | 0.02 | 0.00 |
| 1.30 | 2.00 | 0.00 | 9.35 | 0.02 | 0.00 | 1.32 | 2.00 | 0.00 | 9.34 | 0.02 | 0.00 |
| 1.34 | 2.00 | 0.00 | 9.33 | 0.02 | 0.00 | 1.36 | 2.00 | 0.00 | 9.32 | 0.02 | 0.00 |
| 1.38 | 2.00 | 0.00 | 9.31 | 0.02 | 0.00 | 1.40 | 2.00 | 0.00 | 9.30 | 0.02 | 0.00 |
| 1.42 | 2.00 | 0.00 | 9.29 | 0.02 | 0.00 | 1.44 | 2.00 | 0.00 | 9.28 | 0.02 | 0.00 |
| 1.46 | 2.00 | 0.00 | 9.27 | 0.02 | 0.00 | 1.48 | 2.00 | 0.00 | 9.26 | 0.02 | 0.00 |
| 1.50 | 2.00 | 0.00 | 9.25 | 0.02 | 0.00 | 1.52 | 2.00 | 0.00 | 9.24 | 0.02 | 0.00 |
| 1.54 | 2.00 | 0.00 | 9.23 | 0.02 | 0.00 | 1.56 | 2.00 | 0.00 | 9.22 | 0.02 | 0.00 |
| 1.58 | 2.00 | 0.00 | 9.21 | 0.02 | 0.00 | 1.60 | 2.00 | 0.00 | 9.20 | 0.02 | 0.00 |
| 1.62 | 2.00 | 0.00 | 9.19 | 0.02 | 0.00 | 1.64 | 2.00 | 0.00 | 9.18 | 0.02 | 0.00 |
| 1.66 | 2.00 | 0.00 | 9.17 | 0.02 | 0.00 | 1.68 | 2.00 | 0.00 | 9.16 | 0.02 | 0.00 |
| 1.70 | 2.00 | 0.00 | 9.15 | 0.02 | 0.00 | 1.72 | 2.00 | 0.00 | 9.14 | 0.02 | 0.00 |
| 1.74 | 2.00 | 0.00 | 9.13 | 0.02 | 0.00 | 1.76 | 2.00 | 0.00 | 9.12 | 0.02 | 0.00 |
| 1.78 | 2.00 | 0.00 | 9.11 | 0.02 | 0.00 | 1.80 | 2.00 | 0.00 | 9.10 | 0.02 | 0.00 |
| 1.82 | 2.00 | 0.00 | 9.09 | 0.02 | 0.00 | 1.84 | 2.00 | 0.00 | 9.08 | 0.02 | 0.00 |
| 1.86 | 2.00 | 0.00 | 9.07 | 0.02 | 0.00 | 1.88 | 2.00 | 0.00 | 9.06 | 0.02 | 0.00 |
| 1.90 | 2.00 | 0.00 | 9.05 | 0.02 | 0.00 | 1.92 | 2.00 | 0.00 | 9.04 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 1.94 | 2.00 | 0.00 | 9.03 | 0.02 | 0.00 | 1.96 | 2.00 | 0.00 | 9.02 | 0.02 | 0.00 |
| 1.98 | 2.00 | 0.00 | 9.01 | 0.02 | 0.00 | 2.00 | 2.00 | 0.00 | 9.00 | 0.02 | 0.00 |
| 2.02 | 2.00 | 0.00 | 8.99 | 0.02 | 0.00 | 2.04 | 2.00 | 0.00 | 8.98 | 0.02 | 0.00 |
| 2.06 | 2.00 | 0.00 | 8.97 | 0.02 | 0.00 | 2.08 | 2.00 | 0.00 | 8.96 | 0.02 | 0.00 |
| 2.10 | 2.00 | 0.00 | 8.95 | 0.02 | 0.00 | 2.12 | 2.00 | 0.00 | 8.94 | 0.02 | 0.00 |
| 2.14 | 2.00 | 0.00 | 8.93 | 0.02 | 0.00 | 2.16 | 2.00 | 0.00 | 8.92 | 0.02 | 0.00 |
| 2.18 | 2.00 | 0.00 | 8.91 | 0.02 | 0.00 | 2.20 | 2.00 | 0.00 | 8.90 | 0.02 | 0.00 |
| 2.22 | 2.00 | 0.00 | 8.89 | 0.02 | 0.00 | 2.24 | 2.00 | 0.00 | 8.88 | 0.02 | 0.00 |
| 2.26 | 2.00 | 0.00 | 8.87 | 0.02 | 0.00 | 2.28 | 2.00 | 0.00 | 8.86 | 0.02 | 0.00 |
| 2.30 | 2.00 | 0.00 | 8.85 | 0.02 | 0.00 | 2.32 | 2.00 | 0.00 | 8.84 | 0.02 | 0.00 |
| 2.34 | 2.00 | 0.00 | 8.83 | 0.02 | 0.00 | 2.36 | 2.00 | 0.00 | 8.82 | 0.02 | 0.00 |
| 2.38 | 2.00 | 0.00 | 8.81 | 0.02 | 0.00 | 2.40 | 2.00 | 0.00 | 8.80 | 0.02 | 0.00 |
| 2.42 | 2.00 | 0.00 | 8.79 | 0.02 | 0.00 | 2.44 | 2.00 | 0.00 | 8.78 | 0.02 | 0.00 |
| 2.46 | 2.00 | 0.00 | 8.77 | 0.02 | 0.00 | 2.48 | 2.00 | 0.00 | 8.76 | 0.02 | 0.00 |
| 2.50 | 2.00 | 0.00 | 8.75 | 0.02 | 0.00 | 2.52 | 2.00 | 0.00 | 8.74 | 0.02 | 0.00 |
| 2.54 | 2.00 | 0.00 | 8.73 | 0.02 | 0.00 | 2.56 | 2.00 | 0.00 | 8.72 | 0.02 | 0.00 |
| 2.58 | 2.00 | 0.00 | 8.71 | 0.02 | 0.00 | 2.60 | 2.00 | 0.00 | 8.70 | 0.02 | 0.00 |
| 2.62 | 2.00 | 0.00 | 8.69 | 0.02 | 0.00 | 2.64 | 2.00 | 0.00 | 8.68 | 0.02 | 0.00 |
| 2.66 | 2.00 | 0.00 | 8.67 | 0.02 | 0.00 | 2.68 | 2.00 | 0.00 | 8.66 | 0.02 | 0.00 |
| 2.70 | 2.00 | 0.00 | 8.65 | 0.02 | 0.00 | 2.72 | 2.00 | 0.00 | 8.64 | 0.02 | 0.00 |
| 2.74 | 2.00 | 0.00 | 8.63 | 0.02 | 0.00 | 2.76 | 2.00 | 0.00 | 8.62 | 0.02 | 0.00 |
| 2.78 | 2.00 | 0.00 | 8.61 | 0.02 | 0.00 | 2.80 | 2.00 | 0.00 | 8.60 | 0.02 | 0.00 |
| 2.82 | 2.00 | 0.00 | 8.59 | 0.02 | 0.00 | 2.84 | 2.00 | 0.00 | 8.58 | 0.02 | 0.00 |
| 2.86 | 2.00 | 0.00 | 8.57 | 0.02 | 0.00 | 2.88 | 2.00 | 0.00 | 8.56 | 0.02 | 0.00 |
| 2.90 | 2.00 | 0.00 | 8.55 | 0.02 | 0.00 | 2.92 | 2.00 | 0.00 | 8.54 | 0.02 | 0.00 |
| 2.94 | 2.00 | 0.00 | 8.53 | 0.02 | 0.00 | 2.96 | 2.00 | 0.00 | 8.52 | 0.02 | 0.00 |
| 2.98 | 2.00 | 0.00 | 8.51 | 0.02 | 0.00 | 3.00 | 2.00 | 0.00 | 8.50 | 0.02 | 0.00 |
| 3.02 | 2.00 | 0.00 | 8.49 | 0.02 | 0.00 | 3.04 | 2.00 | 0.00 | 8.48 | 0.02 | 0.00 |
| 3.06 | 2.00 | 0.00 | 8.47 | 0.02 | 0.00 | 3.08 | 2.00 | 0.00 | 8.46 | 0.02 | 0.00 |
| 3.10 | 2.00 | 0.00 | 8.45 | 0.02 | 0.00 | 3.12 | 2.00 | 0.00 | 8.44 | 0.02 | 0.00 |
| 3.14 | 2.00 | 0.00 | 8.43 | 0.02 | 0.00 | 3.16 | 2.00 | 0.00 | 8.42 | 0.02 | 0.00 |
| 3.18 | 2.00 | 0.00 | 8.41 | 0.02 | 0.00 | 3.20 | 2.00 | 0.00 | 8.40 | 0.02 | 0.00 |
| 3.22 | 2.00 | 0.00 | 8.39 | 0.02 | 0.00 | 3.24 | 2.00 | 0.00 | 8.38 | 0.02 | 0.00 |
| 3.26 | 2.00 | 0.00 | 8.37 | 0.02 | 0.00 | 3.28 | 2.00 | 0.00 | 8.36 | 0.02 | 0.00 |
| 3.30 | 2.00 | 0.00 | 8.35 | 0.02 | 0.00 | 3.32 | 2.00 | 0.00 | 8.34 | 0.02 | 0.00 |
| 3.34 | 2.00 | 0.00 | 8.33 | 0.02 | 0.00 | 3.36 | 2.00 | 0.00 | 8.32 | 0.02 | 0.00 |
| 3.38 | 2.00 | 0.00 | 8.31 | 0.02 | 0.00 | 3.40 | 2.00 | 0.00 | 8.30 | 0.02 | 0.00 |
| 3.42 | 2.00 | 0.00 | 8.29 | 0.02 | 0.00 | 3.44 | 2.00 | 0.00 | 8.28 | 0.02 | 0.00 |
| 3.46 | 2.00 | 0.00 | 8.27 | 0.02 | 0.00 | 3.48 | 2.00 | 0.00 | 8.26 | 0.02 | 0.00 |
| 3.50 | 2.00 | 0.00 | 8.25 | 0.02 | 0.00 | 3.52 | 2.00 | 0.00 | 8.24 | 0.02 | 0.00 |
| 3.54 | 2.00 | 0.00 | 8.23 | 0.02 | 0.00 | 3.56 | 2.00 | 0.00 | 8.22 | 0.02 | 0.00 |
| 3.58 | 2.00 | 0.00 | 8.21 | 0.02 | 0.00 | 3.60 | 2.00 | 0.00 | 8.20 | 0.02 | 0.00 |
| 3.62 | 1.18 | 0.00 | 8.19 | 0.02 | 0.00 | 3.64 | 2.00 | 0.00 | 8.18 | 0.02 | 0.00 |
| 3.66 | 2.00 | 0.00 | 8.17 | 0.02 | 0.00 | 3.68 | 2.00 | 0.00 | 8.16 | 0.02 | 0.00 |
| 3.70 | 2.00 | 0.00 | 8.15 | 0.02 | 0.00 | 3.72 | 2.00 | 0.00 | 8.14 | 0.02 | 0.00 |
| 3.74 | 2.00 | 0.00 | 8.13 | 0.02 | 0.00 | 3.76 | 2.00 | 0.00 | 8.12 | 0.02 | 0.00 |
| 3.78 | 2.00 | 0.00 | 8.11 | 0.02 | 0.00 | 3.80 | 1.28 | 0.00 | 8.10 | 0.02 | 0.00 |
| 3.82 | 1.25 | 0.00 | 8.09 | 0.02 | 0.00 | 3.84 | 1.23 | 0.00 | 8.08 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 3.86 | 1.21 | 0.00 | 8.07 | 0.02 | 0.00 | 3.88 | 1.21 | 0.00 | 8.06 | 0.02 | 0.00 |
| 3.90 | 1.25 | 0.00 | 8.05 | 0.02 | 0.00 | 3.92 | 1.29 | 0.00 | 8.04 | 0.02 | 0.00 |
| 3.94 | 2.00 | 0.00 | 8.03 | 0.02 | 0.00 | 3.96 | 2.00 | 0.00 | 8.02 | 0.02 | 0.00 |
| 3.98 | 2.00 | 0.00 | 8.01 | 0.02 | 0.00 | 4.00 | 2.00 | 0.00 | 8.00 | 0.02 | 0.00 |
| 4.02 | 2.00 | 0.00 | 7.99 | 0.02 | 0.00 | 4.04 | 2.00 | 0.00 | 7.98 | 0.02 | 0.00 |
| 4.06 | 2.00 | 0.00 | 7.97 | 0.02 | 0.00 | 4.08 | 2.00 | 0.00 | 7.96 | 0.02 | 0.00 |
| 4.10 | 2.00 | 0.00 | 7.95 | 0.02 | 0.00 | 4.12 | 2.00 | 0.00 | 7.94 | 0.02 | 0.00 |
| 4.14 | 2.00 | 0.00 | 7.93 | 0.02 | 0.00 | 4.16 | 2.00 | 0.00 | 7.92 | 0.02 | 0.00 |
| 4.18 | 2.00 | 0.00 | 7.91 | 0.02 | 0.00 | 4.20 | 2.00 | 0.00 | 7.90 | 0.02 | 0.00 |
| 4.22 | 2.00 | 0.00 | 7.89 | 0.02 | 0.00 | 4.24 | 1.26 | 0.00 | 7.88 | 0.02 | 0.00 |
| 4.26 | 1.29 | 0.00 | 7.87 | 0.02 | 0.00 | 4.28 | 1.33 | 0.00 | 7.86 | 0.02 | 0.00 |
| 4.30 | 1.35 | 0.00 | 7.85 | 0.02 | 0.00 | 4.32 | 1.37 | 0.00 | 7.84 | 0.02 | 0.00 |
| 4.34 | 1.40 | 0.00 | 7.83 | 0.02 | 0.00 | 4.36 | 1.42 | 0.00 | 7.82 | 0.02 | 0.00 |
| 4.38 | 1.42 | 0.00 | 7.81 | 0.02 | 0.00 | 4.40 | 2.00 | 0.00 | 7.80 | 0.02 | 0.00 |
| 4.42 | 2.00 | 0.00 | 7.79 | 0.02 | 0.00 | 4.44 | 2.00 | 0.00 | 7.78 | 0.02 | 0.00 |
| 4.46 | 2.00 | 0.00 | 7.77 | 0.02 | 0.00 | 4.48 | 2.00 | 0.00 | 7.76 | 0.02 | 0.00 |
| 4.50 | 2.00 | 0.00 | 7.75 | 0.02 | 0.00 | 4.52 | 2.00 | 0.00 | 7.74 | 0.02 | 0.00 |
| 4.54 | 2.00 | 0.00 | 7.73 | 0.02 | 0.00 | 4.56 | 1.30 | 0.00 | 7.72 | 0.02 | 0.00 |
| 4.58 | 1.38 | 0.00 | 7.71 | 0.02 | 0.00 | 4.60 | 2.00 | 0.00 | 7.70 | 0.02 | 0.00 |
| 4.62 | 2.00 | 0.00 | 7.69 | 0.02 | 0.00 | 4.64 | 2.00 | 0.00 | 7.68 | 0.02 | 0.00 |
| 4.66 | 2.00 | 0.00 | 7.67 | 0.02 | 0.00 | 4.68 | 2.00 | 0.00 | 7.66 | 0.02 | 0.00 |
| 4.70 | 1.27 | 0.00 | 7.65 | 0.02 | 0.00 | 4.72 | 1.27 | 0.00 | 7.64 | 0.02 | 0.00 |
| 4.74 | 1.20 | 0.00 | 7.63 | 0.02 | 0.00 | 4.76 | 1.44 | 0.00 | 7.62 | 0.02 | 0.00 |
| 4.78 | 1.48 | 0.00 | 7.61 | 0.02 | 0.00 | 4.80 | 1.51 | 0.00 | 7.60 | 0.02 | 0.00 |
| 4.82 | 1.56 | 0.00 | 7.59 | 0.02 | 0.00 | 4.84 | 1.60 | 0.00 | 7.58 | 0.02 | 0.00 |
| 4.86 | 1.58 | 0.00 | 7.57 | 0.02 | 0.00 | 4.88 | 1.49 | 0.00 | 7.56 | 0.02 | 0.00 |
| 4.90 | 1.44 | 0.00 | 7.55 | 0.02 | 0.00 | 4.92 | 2.00 | 0.00 | 7.54 | 0.02 | 0.00 |
| 4.94 | 2.00 | 0.00 | 7.53 | 0.02 | 0.00 | 4.96 | 2.00 | 0.00 | 7.52 | 0.02 | 0.00 |
| 4.98 | 2.00 | 0.00 | 7.51 | 0.02 | 0.00 | 5.00 | 1.37 | 0.00 | 7.50 | 0.02 | 0.00 |
| 5.02 | 1.33 | 0.00 | 7.49 | 0.02 | 0.00 | 5.04 | 1.36 | 0.00 | 7.48 | 0.02 | 0.00 |
| 5.06 | 1.44 | 0.00 | 7.47 | 0.02 | 0.00 | 5.08 | 1.50 | 0.00 | 7.46 | 0.02 | 0.00 |
| 5.10 | 1.49 | 0.00 | 7.45 | 0.02 | 0.00 | 5.12 | 1.41 | 0.00 | 7.44 | 0.02 | 0.00 |
| 5.14 | 1.36 | 0.00 | 7.43 | 0.02 | 0.00 | 5.16 | 1.38 | 0.00 | 7.42 | 0.02 | 0.00 |
| 5.18 | 1.46 | 0.00 | 7.41 | 0.02 | 0.00 | 5.20 | 1.57 | 0.00 | 7.40 | 0.02 | 0.00 |
| 5.22 | 1.63 | 0.00 | 7.39 | 0.02 | 0.00 | 5.24 | 1.64 | 0.00 | 7.38 | 0.02 | 0.00 |
| 5.26 | 1.63 | 0.00 | 7.37 | 0.02 | 0.00 | 5.28 | 1.62 | 0.00 | 7.36 | 0.02 | 0.00 |
| 5.30 | 1.60 | 0.00 | 7.35 | 0.02 | 0.00 | 5.32 | 1.57 | 0.00 | 7.34 | 0.02 | 0.00 |
| 5.34 | 1.58 | 0.00 | 7.33 | 0.02 | 0.00 | 5.36 | 1.60 | 0.00 | 7.32 | 0.02 | 0.00 |
| 5.38 | 1.65 | 0.00 | 7.31 | 0.02 | 0.00 | 5.40 | 1.68 | 0.00 | 7.30 | 0.02 | 0.00 |
| 5.42 | 1.72 | 0.00 | 7.29 | 0.02 | 0.00 | 5.44 | 2.00 | 0.00 | 7.28 | 0.02 | 0.00 |
| 5.46 | 2.00 | 0.00 | 7.27 | 0.02 | 0.00 | 5.48 | 1.46 | 0.00 | 7.26 | 0.02 | 0.00 |
| 5.50 | 1.35 | 0.00 | 7.25 | 0.02 | 0.00 | 5.52 | 1.31 | 0.00 | 7.24 | 0.02 | 0.00 |
| 5.54 | 1.33 | 0.00 | 7.23 | 0.02 | 0.00 | 5.56 | 1.38 | 0.00 | 7.22 | 0.02 | 0.00 |
| 5.58 | 1.44 | 0.00 | 7.21 | 0.02 | 0.00 | 5.60 | 1.52 | 0.00 | 7.20 | 0.02 | 0.00 |
| 5.62 | 1.59 | 0.00 | 7.19 | 0.02 | 0.00 | 5.64 | 1.63 | 0.00 | 7.18 | 0.02 | 0.00 |
| 5.66 | 1.57 | 0.00 | 7.17 | 0.02 | 0.00 | 5.68 | 1.46 | 0.00 | 7.16 | 0.02 | 0.00 |
| 5.70 | 1.39 | 0.00 | 7.15 | 0.02 | 0.00 | 5.72 | 1.39 | 0.00 | 7.14 | 0.02 | 0.00 |
| 5.74 | 1.43 | 0.00 | 7.13 | 0.02 | 0.00 | 5.76 | 1.49 | 0.00 | 7.12 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 5.78 | 1.55 | 0.00 | 7.11 | 0.02 | 0.00 | 5.80 | 1.61 | 0.00 | 7.10 | 0.02 | 0.00 |
| 5.82 | 1.63 | 0.00 | 7.09 | 0.02 | 0.00 | 5.84 | 1.63 | 0.00 | 7.08 | 0.02 | 0.00 |
| 5.86 | 1.66 | 0.00 | 7.07 | 0.02 | 0.00 | 5.88 | 1.75 | 0.00 | 7.06 | 0.02 | 0.00 |
| 5.90 | 1.85 | 0.00 | 7.05 | 0.02 | 0.00 | 5.92 | 1.95 | 0.00 | 7.04 | 0.02 | 0.00 |
| 5.94 | 2.00 | 0.00 | 7.03 | 0.02 | 0.00 | 5.96 | 2.00 | 0.00 | 7.02 | 0.02 | 0.00 |
| 5.98 | 2.00 | 0.00 | 7.01 | 0.02 | 0.00 | 6.00 | 2.00 | 0.00 | 7.00 | 0.02 | 0.00 |
| 6.02 | 2.00 | 0.00 | 6.99 | 0.02 | 0.00 | 6.04 | 2.00 | 0.00 | 6.98 | 0.02 | 0.00 |
| 6.06 | 2.00 | 0.00 | 6.97 | 0.02 | 0.00 | 6.08 | 1.96 | 0.00 | 6.96 | 0.02 | 0.00 |
| 6.10 | 1.93 | 0.00 | 6.95 | 0.02 | 0.00 | 6.12 | 1.88 | 0.00 | 6.94 | 0.02 | 0.00 |
| 6.14 | 1.85 | 0.00 | 6.93 | 0.02 | 0.00 | 6.16 | 1.82 | 0.00 | 6.92 | 0.02 | 0.00 |
| 6.18 | 1.81 | 0.00 | 6.91 | 0.02 | 0.00 | 6.20 | 1.81 | 0.00 | 6.90 | 0.02 | 0.00 |
| 6.22 | 1.81 | 0.00 | 6.89 | 0.02 | 0.00 | 6.24 | 1.82 | 0.00 | 6.88 | 0.02 | 0.00 |
| 6.26 | 1.82 | 0.00 | 6.87 | 0.02 | 0.00 | 6.28 | 1.84 | 0.00 | 6.86 | 0.02 | 0.00 |
| 6.30 | 1.83 | 0.00 | 6.85 | 0.02 | 0.00 | 6.32 | 1.84 | 0.00 | 6.84 | 0.02 | 0.00 |
| 6.34 | 1.85 | 0.00 | 6.83 | 0.02 | 0.00 | 6.36 | 1.86 | 0.00 | 6.82 | 0.02 | 0.00 |
| 6.38 | 1.86 | 0.00 | 6.81 | 0.02 | 0.00 | 6.40 | 1.89 | 0.00 | 6.80 | 0.02 | 0.00 |
| 6.42 | 1.97 | 0.00 | 6.79 | 0.02 | 0.00 | 6.44 | 2.00 | 0.00 | 6.78 | 0.02 | 0.00 |
| 6.46 | 2.00 | 0.00 | 6.77 | 0.02 | 0.00 | 6.48 | 2.00 | 0.00 | 6.76 | 0.02 | 0.00 |
| 6.50 | 2.00 | 0.00 | 6.75 | 0.02 | 0.00 | 6.52 | 2.00 | 0.00 | 6.74 | 0.02 | 0.00 |
| 6.54 | 2.00 | 0.00 | 6.73 | 0.02 | 0.00 | 6.56 | 2.00 | 0.00 | 6.72 | 0.02 | 0.00 |
| 6.58 | 1.92 | 0.00 | 6.71 | 0.02 | 0.00 | 6.60 | 1.85 | 0.00 | 6.70 | 0.02 | 0.00 |
| 6.62 | 1.80 | 0.00 | 6.69 | 0.02 | 0.00 | 6.64 | 1.79 | 0.00 | 6.68 | 0.02 | 0.00 |
| 6.66 | 1.81 | 0.00 | 6.67 | 0.02 | 0.00 | 6.68 | 1.83 | 0.00 | 6.66 | 0.02 | 0.00 |
| 6.70 | 1.85 | 0.00 | 6.65 | 0.02 | 0.00 | 6.72 | 1.84 | 0.00 | 6.64 | 0.02 | 0.00 |
| 6.74 | 1.79 | 0.00 | 6.63 | 0.02 | 0.00 | 6.76 | 1.72 | 0.00 | 6.62 | 0.02 | 0.00 |
| 6.78 | 1.68 | 0.00 | 6.61 | 0.02 | 0.00 | 6.80 | 1.67 | 0.00 | 6.60 | 0.02 | 0.00 |
| 6.82 | 1.69 | 0.00 | 6.59 | 0.02 | 0.00 | 6.84 | 1.71 | 0.00 | 6.58 | 0.02 | 0.00 |
| 6.86 | 1.71 | 0.00 | 6.57 | 0.02 | 0.00 | 6.88 | 1.72 | 0.00 | 6.56 | 0.02 | 0.00 |
| 6.90 | 1.70 | 0.00 | 6.55 | 0.02 | 0.00 | 6.92 | 1.68 | 0.00 | 6.54 | 0.02 | 0.00 |
| 6.94 | 1.66 | 0.00 | 6.53 | 0.02 | 0.00 | 6.96 | 1.68 | 0.00 | 6.52 | 0.02 | 0.00 |
| 6.98 | 1.73 | 0.00 | 6.51 | 0.02 | 0.00 | 7.00 | 1.78 | 0.00 | 6.50 | 0.02 | 0.00 |
| 7.02 | 1.82 | 0.00 | 6.49 | 0.02 | 0.00 | 7.04 | 1.86 | 0.00 | 6.48 | 0.02 | 0.00 |
| 7.06 | 1.91 | 0.00 | 6.47 | 0.02 | 0.00 | 7.08 | 1.97 | 0.00 | 6.46 | 0.02 | 0.00 |
| 7.10 | 2.00 | 0.00 | 6.45 | 0.02 | 0.00 | 7.12 | 2.00 | 0.00 | 6.44 | 0.02 | 0.00 |
| 7.14 | 2.00 | 0.00 | 6.43 | 0.02 | 0.00 | 7.16 | 2.00 | 0.00 | 6.42 | 0.02 | 0.00 |
| 7.18 | 2.00 | 0.00 | 6.41 | 0.02 | 0.00 | 7.20 | 2.00 | 0.00 | 6.40 | 0.02 | 0.00 |
| 7.22 | 2.00 | 0.00 | 6.39 | 0.02 | 0.00 | 7.24 | 2.00 | 0.00 | 6.38 | 0.02 | 0.00 |
| 7.26 | 2.00 | 0.00 | 6.37 | 0.02 | 0.00 | 7.28 | 2.00 | 0.00 | 6.36 | 0.02 | 0.00 |
| 7.30 | 2.00 | 0.00 | 6.35 | 0.02 | 0.00 | 7.32 | 2.00 | 0.00 | 6.34 | 0.02 | 0.00 |
| 7.34 | 2.00 | 0.00 | 6.33 | 0.02 | 0.00 | 7.36 | 2.00 | 0.00 | 6.32 | 0.02 | 0.00 |
| 7.38 | 2.00 | 0.00 | 6.31 | 0.02 | 0.00 | 7.40 | 2.00 | 0.00 | 6.30 | 0.02 | 0.00 |
| 7.42 | 2.00 | 0.00 | 6.29 | 0.02 | 0.00 | 7.44 | 2.00 | 0.00 | 6.28 | 0.02 | 0.00 |
| 7.46 | 2.00 | 0.00 | 6.27 | 0.02 | 0.00 | 7.48 | 2.00 | 0.00 | 6.26 | 0.02 | 0.00 |
| 7.50 | 2.00 | 0.00 | 6.25 | 0.02 | 0.00 | 7.52 | 2.00 | 0.00 | 6.24 | 0.02 | 0.00 |
| 7.54 | 2.00 | 0.00 | 6.23 | 0.02 | 0.00 | 7.56 | 2.00 | 0.00 | 6.22 | 0.02 | 0.00 |
| 7.58 | 2.00 | 0.00 | 6.21 | 0.02 | 0.00 | 7.60 | 1.96 | 0.00 | 6.20 | 0.02 | 0.00 |
| 7.62 | 1.92 | 0.00 | 6.19 | 0.02 | 0.00 | 7.64 | 1.88 | 0.00 | 6.18 | 0.02 | 0.00 |
| 7.66 | 1.84 | 0.00 | 6.17 | 0.02 | 0.00 | 7.68 | 1.81 | 0.00 | 6.16 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 7.70 | 1.80 | 0.00 | 6.15 | 0.02 | 0.00 | 7.72 | 1.80 | 0.00 | 6.14 | 0.02 | 0.00 |
| 7.74 | 1.79 | 0.00 | 6.13 | 0.02 | 0.00 | 7.76 | 1.78 | 0.00 | 6.12 | 0.02 | 0.00 |
| 7.78 | 1.79 | 0.00 | 6.11 | 0.02 | 0.00 | 7.80 | 1.80 | 0.00 | 6.10 | 0.02 | 0.00 |
| 7.82 | 1.81 | 0.00 | 6.09 | 0.02 | 0.00 | 7.84 | 1.82 | 0.00 | 6.08 | 0.02 | 0.00 |
| 7.86 | 1.81 | 0.00 | 6.07 | 0.02 | 0.00 | 7.88 | 1.82 | 0.00 | 6.06 | 0.02 | 0.00 |
| 7.90 | 1.83 | 0.00 | 6.05 | 0.02 | 0.00 | 7.92 | 1.85 | 0.00 | 6.04 | 0.02 | 0.00 |
| 7.94 | 1.86 | 0.00 | 6.03 | 0.02 | 0.00 | 7.96 | 1.87 | 0.00 | 6.02 | 0.02 | 0.00 |
| 7.98 | 1.91 | 0.00 | 6.01 | 0.02 | 0.00 | 8.00 | 1.94 | 0.00 | 6.00 | 0.02 | 0.00 |
| 8.02 | 2.00 | 0.00 | 5.99 | 0.02 | 0.00 | 8.04 | 2.00 | 0.00 | 5.98 | 0.02 | 0.00 |
| 8.06 | 2.00 | 0.00 | 5.97 | 0.02 | 0.00 | 8.08 | 2.00 | 0.00 | 5.96 | 0.02 | 0.00 |
| 8.10 | 2.00 | 0.00 | 5.95 | 0.02 | 0.00 | 8.12 | 2.00 | 0.00 | 5.94 | 0.02 | 0.00 |
| 8.14 | 2.00 | 0.00 | 5.93 | 0.02 | 0.00 | 8.16 | 2.00 | 0.00 | 5.92 | 0.02 | 0.00 |
| 8.18 | 1.99 | 0.00 | 5.91 | 0.02 | 0.00 | 8.20 | 1.94 | 0.00 | 5.90 | 0.02 | 0.00 |
| 8.22 | 1.90 | 0.00 | 5.89 | 0.02 | 0.00 | 8.24 | 1.88 | 0.00 | 5.88 | 0.02 | 0.00 |
| 8.26 | 1.86 | 0.00 | 5.87 | 0.02 | 0.00 | 8.28 | 2.00 | 0.00 | 5.86 | 0.02 | 0.00 |
| 8.30 | 2.00 | 0.00 | 5.85 | 0.02 | 0.00 | 8.32 | 1.99 | 0.00 | 5.84 | 0.02 | 0.00 |
| 8.34 | 1.98 | 0.00 | 5.83 | 0.02 | 0.00 | 8.36 | 1.79 | 0.00 | 5.82 | 0.02 | 0.00 |
| 8.38 | 1.95 | 0.00 | 5.81 | 0.02 | 0.00 | 8.40 | 2.00 | 0.00 | 5.80 | 0.02 | 0.00 |
| 8.42 | 2.00 | 0.00 | 5.79 | 0.02 | 0.00 | 8.44 | 2.00 | 0.00 | 5.78 | 0.02 | 0.00 |
| 8.46 | 2.00 | 0.00 | 5.77 | 0.02 | 0.00 | 8.48 | 2.00 | 0.00 | 5.76 | 0.02 | 0.00 |
| 8.50 | 2.00 | 0.00 | 5.75 | 0.02 | 0.00 | 8.52 | 2.00 | 0.00 | 5.74 | 0.02 | 0.00 |
| 8.54 | 2.00 | 0.00 | 5.73 | 0.02 | 0.00 | 8.56 | 2.00 | 0.00 | 5.72 | 0.02 | 0.00 |
| 8.58 | 2.00 | 0.00 | 5.71 | 0.02 | 0.00 | 8.60 | 2.00 | 0.00 | 5.70 | 0.02 | 0.00 |
| 8.62 | 2.00 | 0.00 | 5.69 | 0.02 | 0.00 | 8.64 | 2.00 | 0.00 | 5.68 | 0.02 | 0.00 |
| 8.66 | 2.00 | 0.00 | 5.67 | 0.02 | 0.00 | 8.68 | 2.00 | 0.00 | 5.66 | 0.02 | 0.00 |
| 8.70 | 2.00 | 0.00 | 5.65 | 0.02 | 0.00 | 8.72 | 2.00 | 0.00 | 5.64 | 0.02 | 0.00 |
| 8.74 | 2.00 | 0.00 | 5.63 | 0.02 | 0.00 | 8.76 | 2.00 | 0.00 | 5.62 | 0.02 | 0.00 |
| 8.78 | 1.86 | 0.00 | 5.61 | 0.02 | 0.00 | 8.80 | 1.72 | 0.00 | 5.60 | 0.02 | 0.00 |
| 8.82 | 1.61 | 0.00 | 5.59 | 0.02 | 0.00 | 8.84 | 1.32 | 0.00 | 5.58 | 0.02 | 0.00 |
| 8.86 | 1.29 | 0.00 | 5.57 | 0.02 | 0.00 | 8.88 | 1.27 | 0.00 | 5.56 | 0.02 | 0.00 |
| 8.90 | 1.27 | 0.00 | 5.55 | 0.02 | 0.00 | 8.92 | 1.26 | 0.00 | 5.54 | 0.02 | 0.00 |
| 8.94 | 1.25 | 0.00 | 5.53 | 0.02 | 0.00 | 8.96 | 1.22 | 0.00 | 5.52 | 0.02 | 0.00 |
| 8.98 | 1.18 | 0.00 | 5.51 | 0.02 | 0.00 | 9.00 | 1.37 | 0.00 | 5.50 | 0.02 | 0.00 |
| 9.02 | 1.45 | 0.00 | 5.49 | 0.02 | 0.00 | 9.04 | 1.56 | 0.00 | 5.48 | 0.02 | 0.00 |
| 9.06 | 1.66 | 0.00 | 5.47 | 0.02 | 0.00 | 9.08 | 2.00 | 0.00 | 5.46 | 0.02 | 0.00 |
| 9.10 | 2.00 | 0.00 | 5.45 | 0.02 | 0.00 | 9.12 | 2.00 | 0.00 | 5.44 | 0.02 | 0.00 |
| 9.14 | 2.00 | 0.00 | 5.43 | 0.02 | 0.00 | 9.16 | 2.00 | 0.00 | 5.42 | 0.02 | 0.00 |
| 9.18 | 2.00 | 0.00 | 5.41 | 0.02 | 0.00 | 9.20 | 2.00 | 0.00 | 5.40 | 0.02 | 0.00 |
| 9.22 | 2.00 | 0.00 | 5.39 | 0.02 | 0.00 | 9.24 | 2.00 | 0.00 | 5.38 | 0.02 | 0.00 |
| 9.26 | 2.00 | 0.00 | 5.37 | 0.02 | 0.00 | 9.28 | 2.00 | 0.00 | 5.36 | 0.02 | 0.00 |
| 9.30 | 2.00 | 0.00 | 5.35 | 0.02 | 0.00 | 9.32 | 2.00 | 0.00 | 5.34 | 0.02 | 0.00 |
| 9.34 | 2.00 | 0.00 | 5.33 | 0.02 | 0.00 | 9.36 | 2.00 | 0.00 | 5.32 | 0.02 | 0.00 |
| 9.38 | 2.00 | 0.00 | 5.31 | 0.02 | 0.00 | 9.40 | 2.00 | 0.00 | 5.30 | 0.02 | 0.00 |
| 9.42 | 2.00 | 0.00 | 5.29 | 0.02 | 0.00 | 9.44 | 2.00 | 0.00 | 5.28 | 0.02 | 0.00 |
| 9.46 | 2.00 | 0.00 | 5.27 | 0.02 | 0.00 | 9.48 | 2.00 | 0.00 | 5.26 | 0.02 | 0.00 |
| 9.50 | 2.00 | 0.00 | 5.25 | 0.02 | 0.00 | 9.52 | 2.00 | 0.00 | 5.24 | 0.02 | 0.00 |
| 9.54 | 2.00 | 0.00 | 5.23 | 0.02 | 0.00 | 9.56 | 2.00 | 0.00 | 5.22 | 0.02 | 0.00 |
| 9.58 | 2.00 | 0.00 | 5.21 | 0.02 | 0.00 | 9.60 | 2.00 | 0.00 | 5.20 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 9.62 | 2.00 | 0.00 | 5.19 | 0.02 | 0.00 | 9.64 | 2.00 | 0.00 | 5.18 | 0.02 | 0.00 |
| 9.66 | 2.00 | 0.00 | 5.17 | 0.02 | 0.00 | 9.68 | 2.00 | 0.00 | 5.16 | 0.02 | 0.00 |
| 9.70 | 2.00 | 0.00 | 5.15 | 0.02 | 0.00 | 9.72 | 2.00 | 0.00 | 5.14 | 0.02 | 0.00 |
| 9.74 | 2.00 | 0.00 | 5.13 | 0.02 | 0.00 | 9.76 | 2.00 | 0.00 | 5.12 | 0.02 | 0.00 |
| 9.78 | 2.00 | 0.00 | 5.11 | 0.02 | 0.00 | 9.80 | 2.00 | 0.00 | 5.10 | 0.02 | 0.00 |
| 9.82 | 2.00 | 0.00 | 5.09 | 0.02 | 0.00 | 9.84 | 2.00 | 0.00 | 5.08 | 0.02 | 0.00 |
| 9.86 | 2.00 | 0.00 | 5.07 | 0.02 | 0.00 | 9.88 | 2.00 | 0.00 | 5.06 | 0.02 | 0.00 |
| 9.90 | 2.00 | 0.00 | 5.05 | 0.02 | 0.00 | 9.92 | 2.00 | 0.00 | 5.04 | 0.02 | 0.00 |
| 9.94 | 2.00 | 0.00 | 5.03 | 0.02 | 0.00 | 9.96 | 2.00 | 0.00 | 5.02 | 0.02 | 0.00 |
| 9.98 | 2.00 | 0.00 | 5.01 | 0.02 | 0.00 | 10.00 | 2.00 | 0.00 | 5.00 | 0.02 | 0.00 |
| 10.02 | 2.00 | 0.00 | 4.99 | 0.02 | 0.00 | 10.04 | 2.00 | 0.00 | 4.98 | 0.02 | 0.00 |
| 10.06 | 2.00 | 0.00 | 4.97 | 0.02 | 0.00 | 10.08 | 2.00 | 0.00 | 4.96 | 0.02 | 0.00 |
| 10.10 | 2.00 | 0.00 | 4.95 | 0.02 | 0.00 | 10.12 | 2.00 | 0.00 | 4.94 | 0.02 | 0.00 |
| 10.14 | 1.46 | 0.00 | 4.93 | 0.02 | 0.00 | 10.16 | 1.54 | 0.00 | 4.92 | 0.02 | 0.00 |
| 10.18 | 1.62 | 0.00 | 4.91 | 0.02 | 0.00 | 10.20 | 1.64 | 0.00 | 4.90 | 0.02 | 0.00 |
| 10.22 | 1.65 | 0.00 | 4.89 | 0.02 | 0.00 | 10.24 | 1.68 | 0.00 | 4.88 | 0.02 | 0.00 |
| 10.26 | 1.67 | 0.00 | 4.87 | 0.02 | 0.00 | 10.28 | 1.61 | 0.00 | 4.86 | 0.02 | 0.00 |
| 10.30 | 1.55 | 0.00 | 4.85 | 0.02 | 0.00 | 10.32 | 1.50 | 0.00 | 4.84 | 0.02 | 0.00 |
| 10.34 | 1.48 | 0.00 | 4.83 | 0.02 | 0.00 | 10.36 | 1.50 | 0.00 | 4.82 | 0.02 | 0.00 |
| 10.38 | 1.58 | 0.00 | 4.81 | 0.02 | 0.00 | 10.40 | 1.66 | 0.00 | 4.80 | 0.02 | 0.00 |
| 10.42 | 1.70 | 0.00 | 4.79 | 0.02 | 0.00 | 10.44 | 1.69 | 0.00 | 4.78 | 0.02 | 0.00 |
| 10.46 | 1.71 | 0.00 | 4.77 | 0.02 | 0.00 | 10.48 | 1.76 | 0.00 | 4.76 | 0.02 | 0.00 |
| 10.50 | 1.87 | 0.00 | 4.75 | 0.02 | 0.00 | 10.52 | 1.96 | 0.00 | 4.74 | 0.02 | 0.00 |
| 10.54 | 1.92 | 0.00 | 4.73 | 0.02 | 0.00 | 10.56 | 1.81 | 0.00 | 4.72 | 0.02 | 0.00 |
| 10.58 | 1.71 | 0.00 | 4.71 | 0.02 | 0.00 | 10.60 | 1.67 | 0.00 | 4.70 | 0.02 | 0.00 |
| 10.62 | 1.67 | 0.00 | 4.69 | 0.02 | 0.00 | 10.64 | 1.71 | 0.00 | 4.68 | 0.02 | 0.00 |
| 10.66 | 1.75 | 0.00 | 4.67 | 0.02 | 0.00 | 10.68 | 1.80 | 0.00 | 4.66 | 0.02 | 0.00 |
| 10.70 | 1.87 | 0.00 | 4.65 | 0.02 | 0.00 | 10.72 | 1.98 | 0.00 | 4.64 | 0.02 | 0.00 |
| 10.74 | 2.00 | 0.00 | 4.63 | 0.02 | 0.00 | 10.76 | 2.00 | 0.00 | 4.62 | 0.02 | 0.00 |
| 10.78 | 2.00 | 0.00 | 4.61 | 0.02 | 0.00 | 10.80 | 2.00 | 0.00 | 4.60 | 0.02 | 0.00 |
| 10.82 | 2.00 | 0.00 | 4.59 | 0.02 | 0.00 | 10.84 | 2.00 | 0.00 | 4.58 | 0.02 | 0.00 |
| 10.86 | 2.00 | 0.00 | 4.57 | 0.02 | 0.00 | 10.88 | 2.00 | 0.00 | 4.56 | 0.02 | 0.00 |
| 10.90 | 1.65 | 0.00 | 4.55 | 0.02 | 0.00 | 10.92 | 1.60 | 0.00 | 4.54 | 0.02 | 0.00 |
| 10.94 | 1.61 | 0.00 | 4.53 | 0.02 | 0.00 | 10.96 | 1.67 | 0.00 | 4.52 | 0.02 | 0.00 |
| 10.98 | 1.67 | 0.00 | 4.51 | 0.02 | 0.00 | 11.00 | 1.61 | 0.00 | 4.50 | 0.02 | 0.00 |
| 11.02 | 1.59 | 0.00 | 4.49 | 0.02 | 0.00 | 11.04 | 1.65 | 0.00 | 4.48 | 0.02 | 0.00 |
| 11.06 | 1.74 | 0.00 | 4.47 | 0.02 | 0.00 | 11.08 | 1.85 | 0.00 | 4.46 | 0.02 | 0.00 |
| 11.10 | 1.94 | 0.00 | 4.45 | 0.02 | 0.00 | 11.12 | 2.00 | 0.00 | 4.44 | 0.02 | 0.00 |
| 11.14 | 2.00 | 0.00 | 4.43 | 0.02 | 0.00 | 11.16 | 2.00 | 0.00 | 4.42 | 0.02 | 0.00 |
| 11.18 | 2.00 | 0.00 | 4.41 | 0.02 | 0.00 | 11.20 | 2.00 | 0.00 | 4.40 | 0.02 | 0.00 |
| 11.22 | 2.00 | 0.00 | 4.39 | 0.02 | 0.00 | 11.24 | 2.00 | 0.00 | 4.38 | 0.02 | 0.00 |
| 11.26 | 2.00 | 0.00 | 4.37 | 0.02 | 0.00 | 11.28 | 2.00 | 0.00 | 4.36 | 0.02 | 0.00 |
| 11.30 | 2.00 | 0.00 | 4.35 | 0.02 | 0.00 | 11.32 | 2.00 | 0.00 | 4.34 | 0.02 | 0.00 |
| 11.34 | 2.00 | 0.00 | 4.33 | 0.02 | 0.00 | 11.36 | 2.00 | 0.00 | 4.32 | 0.02 | 0.00 |
| 11.38 | 2.00 | 0.00 | 4.31 | 0.02 | 0.00 | 11.40 | 2.00 | 0.00 | 4.30 | 0.02 | 0.00 |
| 11.42 | 2.00 | 0.00 | 4.29 | 0.02 | 0.00 | 11.44 | 2.00 | 0.00 | 4.28 | 0.02 | 0.00 |
| 11.46 | 2.00 | 0.00 | 4.27 | 0.02 | 0.00 | 11.48 | 2.00 | 0.00 | 4.26 | 0.02 | 0.00 |
| 11.50 | 2.00 | 0.00 | 4.25 | 0.02 | 0.00 | 11.52 | 2.00 | 0.00 | 4.24 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 11.54 | 2.00 | 0.00 | 4.23 | 0.02 | 0.00 | 11.56 | 2.00 | 0.00 | 4.22 | 0.02 | 0.00 |
| 11.58 | 2.00 | 0.00 | 4.21 | 0.02 | 0.00 | 11.60 | 2.00 | 0.00 | 4.20 | 0.02 | 0.00 |
| 11.62 | 2.00 | 0.00 | 4.19 | 0.02 | 0.00 | 11.64 | 2.00 | 0.00 | 4.18 | 0.02 | 0.00 |
| 11.66 | 2.00 | 0.00 | 4.17 | 0.02 | 0.00 | 11.68 | 2.00 | 0.00 | 4.16 | 0.02 | 0.00 |
| 11.70 | 2.00 | 0.00 | 4.15 | 0.02 | 0.00 | 11.72 | 2.00 | 0.00 | 4.14 | 0.02 | 0.00 |
| 11.74 | 2.00 | 0.00 | 4.13 | 0.02 | 0.00 | 11.76 | 2.00 | 0.00 | 4.12 | 0.02 | 0.00 |
| 11.78 | 2.00 | 0.00 | 4.11 | 0.02 | 0.00 | 11.80 | 2.00 | 0.00 | 4.10 | 0.02 | 0.00 |
| 11.82 | 2.00 | 0.00 | 4.09 | 0.02 | 0.00 | 11.84 | 2.00 | 0.00 | 4.08 | 0.02 | 0.00 |
| 11.86 | 2.00 | 0.00 | 4.07 | 0.02 | 0.00 | 11.88 | 2.00 | 0.00 | 4.06 | 0.02 | 0.00 |
| 11.90 | 2.00 | 0.00 | 4.05 | 0.02 | 0.00 | 11.92 | 2.00 | 0.00 | 4.04 | 0.02 | 0.00 |
| 11.94 | 1.59 | 0.00 | 4.03 | 0.02 | 0.00 | 11.96 | 1.64 | 0.00 | 4.02 | 0.02 | 0.00 |
| 11.98 | 2.00 | 0.00 | 4.01 | 0.02 | 0.00 | 12.00 | 2.00 | 0.00 | 4.00 | 0.02 | 0.00 |
| 12.02 | 2.00 | 0.00 | 3.99 | 0.02 | 0.00 | 12.04 | 2.00 | 0.00 | 3.98 | 0.02 | 0.00 |
| 12.06 | 2.00 | 0.00 | 3.97 | 0.02 | 0.00 | 12.08 | 2.00 | 0.00 | 3.96 | 0.02 | 0.00 |
| 12.10 | 2.00 | 0.00 | 3.95 | 0.02 | 0.00 | 12.12 | 2.00 | 0.00 | 3.94 | 0.02 | 0.00 |
| 12.14 | 2.00 | 0.00 | 3.93 | 0.02 | 0.00 | 12.16 | 2.00 | 0.00 | 3.92 | 0.02 | 0.00 |
| 12.18 | 2.00 | 0.00 | 3.91 | 0.02 | 0.00 | 12.20 | 2.00 | 0.00 | 3.90 | 0.02 | 0.00 |
| 12.22 | 2.00 | 0.00 | 3.89 | 0.02 | 0.00 | 12.24 | 2.00 | 0.00 | 3.88 | 0.02 | 0.00 |
| 12.26 | 2.00 | 0.00 | 3.87 | 0.02 | 0.00 | 12.28 | 2.00 | 0.00 | 3.86 | 0.02 | 0.00 |
| 12.30 | 2.00 | 0.00 | 3.85 | 0.02 | 0.00 | 12.32 | 2.00 | 0.00 | 3.84 | 0.02 | 0.00 |
| 12.34 | 2.00 | 0.00 | 3.83 | 0.02 | 0.00 | 12.36 | 2.00 | 0.00 | 3.82 | 0.02 | 0.00 |
| 12.38 | 2.00 | 0.00 | 3.81 | 0.02 | 0.00 | 12.40 | 2.00 | 0.00 | 3.80 | 0.02 | 0.00 |
| 12.42 | 2.00 | 0.00 | 3.79 | 0.02 | 0.00 | 12.44 | 2.00 | 0.00 | 3.78 | 0.02 | 0.00 |
| 12.46 | 2.00 | 0.00 | 3.77 | 0.02 | 0.00 | 12.48 | 2.00 | 0.00 | 3.76 | 0.02 | 0.00 |
| 12.50 | 2.00 | 0.00 | 3.75 | 0.02 | 0.00 | 12.52 | 2.00 | 0.00 | 3.74 | 0.02 | 0.00 |
| 12.54 | 2.00 | 0.00 | 3.73 | 0.02 | 0.00 | 12.56 | 2.00 | 0.00 | 3.72 | 0.02 | 0.00 |
| 12.58 | 2.00 | 0.00 | 3.71 | 0.02 | 0.00 | 12.60 | 2.00 | 0.00 | 3.70 | 0.02 | 0.00 |
| 12.62 | 2.00 | 0.00 | 3.69 | 0.02 | 0.00 | 12.64 | 2.00 | 0.00 | 3.68 | 0.02 | 0.00 |
| 12.66 | 2.00 | 0.00 | 3.67 | 0.02 | 0.00 | 12.68 | 2.00 | 0.00 | 3.66 | 0.02 | 0.00 |
| 12.70 | 2.00 | 0.00 | 3.65 | 0.02 | 0.00 | 12.72 | 2.00 | 0.00 | 3.64 | 0.02 | 0.00 |
| 12.74 | 2.00 | 0.00 | 3.63 | 0.02 | 0.00 | 12.76 | 2.00 | 0.00 | 3.62 | 0.02 | 0.00 |
| 12.78 | 2.00 | 0.00 | 3.61 | 0.02 | 0.00 | 12.80 | 2.00 | 0.00 | 3.60 | 0.02 | 0.00 |
| 12.82 | 2.00 | 0.00 | 3.59 | 0.02 | 0.00 | 12.84 | 2.00 | 0.00 | 3.58 | 0.02 | 0.00 |
| 12.86 | 2.00 | 0.00 | 3.57 | 0.02 | 0.00 | 12.88 | 2.00 | 0.00 | 3.56 | 0.02 | 0.00 |
| 12.90 | 2.00 | 0.00 | 3.55 | 0.02 | 0.00 | 12.92 | 2.00 | 0.00 | 3.54 | 0.02 | 0.00 |
| 12.94 | 2.00 | 0.00 | 3.53 | 0.02 | 0.00 | 12.96 | 2.00 | 0.00 | 3.52 | 0.02 | 0.00 |
| 12.98 | 2.00 | 0.00 | 3.51 | 0.02 | 0.00 | 13.00 | 2.00 | 0.00 | 3.50 | 0.02 | 0.00 |
| 13.02 | 2.00 | 0.00 | 3.49 | 0.02 | 0.00 | 13.04 | 2.00 | 0.00 | 3.48 | 0.02 | 0.00 |
| 13.06 | 2.00 | 0.00 | 3.47 | 0.02 | 0.00 | 13.08 | 1.57 | 0.00 | 3.46 | 0.02 | 0.00 |
| 13.10 | 1.63 | 0.00 | 3.45 | 0.02 | 0.00 | 13.12 | 1.68 | 0.00 | 3.44 | 0.02 | 0.00 |
| 13.14 | 1.70 | 0.00 | 3.43 | 0.02 | 0.00 | 13.16 | 1.69 | 0.00 | 3.42 | 0.02 | 0.00 |
| 13.18 | 1.67 | 0.00 | 3.41 | 0.02 | 0.00 | 13.20 | 1.68 | 0.00 | 3.40 | 0.02 | 0.00 |
| 13.22 | 1.74 | 0.00 | 3.39 | 0.02 | 0.00 | 13.24 | 1.89 | 0.00 | 3.38 | 0.02 | 0.00 |
| 13.26 | 2.00 | 0.00 | 3.37 | 0.02 | 0.00 | 13.28 | 2.00 | 0.00 | 3.36 | 0.02 | 0.00 |
| 13.30 | 2.00 | 0.00 | 3.35 | 0.02 | 0.00 | 13.32 | 2.00 | 0.00 | 3.34 | 0.02 | 0.00 |
| 13.34 | 2.00 | 0.00 | 3.33 | 0.02 | 0.00 | 13.36 | 2.00 | 0.00 | 3.32 | 0.02 | 0.00 |
| 13.38 | 2.00 | 0.00 | 3.31 | 0.02 | 0.00 | 13.40 | 2.00 | 0.00 | 3.30 | 0.02 | 0.00 |
| 13.42 | 2.00 | 0.00 | 3.29 | 0.02 | 0.00 | 13.44 | 2.00 | 0.00 | 3.28 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 13.46 | 2.00 | 0.00 | 3.27 | 0.02 | 0.00 | 13.48 | 2.00 | 0.00 | 3.26 | 0.02 | 0.00 |
| 13.50 | 1.98 | 0.00 | 3.25 | 0.02 | 0.00 | 13.52 | 1.80 | 0.00 | 3.24 | 0.02 | 0.00 |
| 13.54 | 1.93 | 0.00 | 3.23 | 0.02 | 0.00 | 13.56 | 2.00 | 0.00 | 3.22 | 0.02 | 0.00 |
| 13.58 | 2.00 | 0.00 | 3.21 | 0.02 | 0.00 | 13.60 | 2.00 | 0.00 | 3.20 | 0.02 | 0.00 |
| 13.62 | 2.00 | 0.00 | 3.19 | 0.02 | 0.00 | 13.64 | 2.00 | 0.00 | 3.18 | 0.02 | 0.00 |
| 13.66 | 2.00 | 0.00 | 3.17 | 0.02 | 0.00 | 13.68 | 2.00 | 0.00 | 3.16 | 0.02 | 0.00 |
| 13.70 | 1.94 | 0.00 | 3.15 | 0.02 | 0.00 | 13.72 | 1.89 | 0.00 | 3.14 | 0.02 | 0.00 |
| 13.74 | 1.85 | 0.00 | 3.13 | 0.02 | 0.00 | 13.76 | 1.83 | 0.00 | 3.12 | 0.02 | 0.00 |
| 13.78 | 1.81 | 0.00 | 3.11 | 0.02 | 0.00 | 13.80 | 1.80 | 0.00 | 3.10 | 0.02 | 0.00 |
| 13.82 | 1.83 | 0.00 | 3.09 | 0.02 | 0.00 | 13.84 | 1.89 | 0.00 | 3.08 | 0.02 | 0.00 |
| 13.86 | 1.93 | 0.00 | 3.07 | 0.02 | 0.00 | 13.88 | 2.00 | 0.00 | 3.06 | 0.02 | 0.00 |
| 13.90 | 1.99 | 0.00 | 3.05 | 0.02 | 0.00 | 13.92 | 1.99 | 0.00 | 3.04 | 0.02 | 0.00 |
| 13.94 | 1.93 | 0.00 | 3.03 | 0.02 | 0.00 | 13.96 | 1.98 | 0.00 | 3.02 | 0.02 | 0.00 |
| 13.98 | 2.00 | 0.00 | 3.01 | 0.02 | 0.00 | 14.00 | 2.00 | 0.00 | 3.00 | 0.02 | 0.00 |
| 14.02 | 1.99 | 0.00 | 2.99 | 0.02 | 0.00 | 14.04 | 1.97 | 0.00 | 2.98 | 0.02 | 0.00 |
| 14.06 | 1.96 | 0.00 | 2.97 | 0.02 | 0.00 | 14.08 | 1.99 | 0.00 | 2.96 | 0.02 | 0.00 |
| 14.10 | 2.00 | 0.00 | 2.95 | 0.02 | 0.00 | 14.12 | 2.00 | 0.00 | 2.94 | 0.02 | 0.00 |
| 14.14 | 2.00 | 0.00 | 2.93 | 0.02 | 0.00 | 14.16 | 2.00 | 0.00 | 2.92 | 0.02 | 0.00 |
| 14.18 | 2.00 | 0.00 | 2.91 | 0.02 | 0.00 | 14.20 | 2.00 | 0.00 | 2.90 | 0.02 | 0.00 |
| 14.22 | 1.97 | 0.00 | 2.89 | 0.02 | 0.00 | 14.24 | 1.98 | 0.00 | 2.88 | 0.02 | 0.00 |
| 14.26 | 2.00 | 0.00 | 2.87 | 0.02 | 0.00 | 14.28 | 2.00 | 0.00 | 2.86 | 0.02 | 0.00 |
| 14.30 | 2.00 | 0.00 | 2.85 | 0.02 | 0.00 | 14.32 | 2.00 | 0.00 | 2.84 | 0.02 | 0.00 |
| 14.34 | 2.00 | 0.00 | 2.83 | 0.02 | 0.00 | 14.36 | 2.00 | 0.00 | 2.82 | 0.02 | 0.00 |
| 14.38 | 2.00 | 0.00 | 2.81 | 0.02 | 0.00 | 14.40 | 2.00 | 0.00 | 2.80 | 0.02 | 0.00 |
| 14.42 | 2.00 | 0.00 | 2.79 | 0.02 | 0.00 | 14.44 | 2.00 | 0.00 | 2.78 | 0.02 | 0.00 |
| 14.46 | 2.00 | 0.00 | 2.77 | 0.02 | 0.00 | 14.48 | 2.00 | 0.00 | 2.76 | 0.02 | 0.00 |
| 14.50 | 2.00 | 0.00 | 2.75 | 0.02 | 0.00 | 14.52 | 2.00 | 0.00 | 2.74 | 0.02 | 0.00 |
| 14.54 | 2.00 | 0.00 | 2.73 | 0.02 | 0.00 | 14.56 | 2.00 | 0.00 | 2.72 | 0.02 | 0.00 |
| 14.58 | 2.00 | 0.00 | 2.71 | 0.02 | 0.00 | 14.60 | 2.00 | 0.00 | 2.70 | 0.02 | 0.00 |
| 14.62 | 1.96 | 0.00 | 2.69 | 0.02 | 0.00 | 14.64 | 1.89 | 0.00 | 2.68 | 0.02 | 0.00 |
| 14.66 | 1.85 | 0.00 | 2.67 | 0.02 | 0.00 | 14.68 | 1.84 | 0.00 | 2.66 | 0.02 | 0.00 |
| 14.70 | 1.81 | 0.00 | 2.65 | 0.02 | 0.00 | 14.72 | 1.76 | 0.00 | 2.64 | 0.02 | 0.00 |
| 14.74 | 1.76 | 0.00 | 2.63 | 0.02 | 0.00 | 14.76 | 1.83 | 0.00 | 2.62 | 0.02 | 0.00 |
| 14.78 | 1.93 | 0.00 | 2.61 | 0.02 | 0.00 | 14.80 | 1.98 | 0.00 | 2.60 | 0.02 | 0.00 |
| 14.82 | 1.97 | 0.00 | 2.59 | 0.02 | 0.00 | 14.84 | 1.92 | 0.00 | 2.58 | 0.02 | 0.00 |
| 14.86 | 1.85 | 0.00 | 2.57 | 0.02 | 0.00 | 14.88 | 1.85 | 0.00 | 2.56 | 0.02 | 0.00 |
| 14.90 | 2.00 | 0.00 | 2.55 | 0.02 | 0.00 | 14.92 | 2.00 | 0.00 | 2.54 | 0.02 | 0.00 |
| 14.94 | 2.00 | 0.00 | 2.53 | 0.02 | 0.00 | 14.96 | 2.00 | 0.00 | 2.52 | 0.02 | 0.00 |
| 14.98 | 2.00 | 0.00 | 2.51 | 0.02 | 0.00 | 15.00 | 2.00 | 0.00 | 2.50 | 0.02 | 0.00 |
| 15.02 | 2.00 | 0.00 | 2.49 | 0.02 | 0.00 | 15.04 | 2.00 | 0.00 | 2.48 | 0.02 | 0.00 |
| 15.06 | 2.00 | 0.00 | 2.47 | 0.02 | 0.00 | 15.08 | 2.00 | 0.00 | 2.46 | 0.02 | 0.00 |
| 15.10 | 2.00 | 0.00 | 2.45 | 0.02 | 0.00 | 15.12 | 2.00 | 0.00 | 2.44 | 0.02 | 0.00 |
| 15.14 | 2.00 | 0.00 | 2.43 | 0.02 | 0.00 | 15.16 | 2.00 | 0.00 | 2.42 | 0.02 | 0.00 |
| 15.18 | 2.00 | 0.00 | 2.41 | 0.02 | 0.00 | 15.20 | 2.00 | 0.00 | 2.40 | 0.02 | 0.00 |
| 15.22 | 2.00 | 0.00 | 2.39 | 0.02 | 0.00 | 15.24 | 2.00 | 0.00 | 2.38 | 0.02 | 0.00 |
| 15.26 | 2.00 | 0.00 | 2.37 | 0.02 | 0.00 | 15.28 | 2.00 | 0.00 | 2.36 | 0.02 | 0.00 |
| 15.30 | 2.00 | 0.00 | 2.35 | 0.02 | 0.00 | 15.32 | 2.00 | 0.00 | 2.34 | 0.02 | 0.00 |
| 15.34 | 1.93 | 0.00 | 2.33 | 0.02 | 0.00 | 15.36 | 2.00 | 0.00 | 2.32 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 15.38 | 2.00 | 0.00 | 2.31 | 0.02 | 0.00 | 15.40 | 2.00 | 0.00 | 2.30 | 0.02 | 0.00 |
| 15.42 | 2.00 | 0.00 | 2.29 | 0.02 | 0.00 | 15.44 | 2.00 | 0.00 | 2.28 | 0.02 | 0.00 |
| 15.46 | 2.00 | 0.00 | 2.27 | 0.02 | 0.00 | 15.48 | 2.00 | 0.00 | 2.26 | 0.02 | 0.00 |
| 15.50 | 2.00 | 0.00 | 2.25 | 0.02 | 0.00 | 15.52 | 2.00 | 0.00 | 2.24 | 0.02 | 0.00 |
| 15.54 | 2.00 | 0.00 | 2.23 | 0.02 | 0.00 | 15.56 | 2.00 | 0.00 | 2.22 | 0.02 | 0.00 |
| 15.58 | 2.00 | 0.00 | 2.21 | 0.02 | 0.00 | 15.60 | 2.00 | 0.00 | 2.20 | 0.02 | 0.00 |
| 15.62 | 2.00 | 0.00 | 2.19 | 0.02 | 0.00 | 15.64 | 2.00 | 0.00 | 2.18 | 0.02 | 0.00 |
| 15.66 | 2.00 | 0.00 | 2.17 | 0.02 | 0.00 | 15.68 | 2.00 | 0.00 | 2.16 | 0.02 | 0.00 |
| 15.70 | 1.92 | 0.00 | 2.15 | 0.02 | 0.00 | 15.72 | 1.82 | 0.00 | 2.14 | 0.02 | 0.00 |
| 15.74 | 1.76 | 0.00 | 2.13 | 0.02 | 0.00 | 15.76 | 1.70 | 0.00 | 2.12 | 0.02 | 0.00 |
| 15.78 | 1.64 | 0.00 | 2.11 | 0.02 | 0.00 | 15.80 | 1.58 | 0.00 | 2.10 | 0.02 | 0.00 |
| 15.82 | 1.55 | 0.00 | 2.09 | 0.02 | 0.00 | 15.84 | 1.53 | 0.00 | 2.08 | 0.02 | 0.00 |
| 15.86 | 1.53 | 0.00 | 2.07 | 0.02 | 0.00 | 15.88 | 1.53 | 0.00 | 2.06 | 0.02 | 0.00 |
| 15.90 | 1.55 | 0.00 | 2.05 | 0.02 | 0.00 | 15.92 | 1.55 | 0.00 | 2.04 | 0.02 | 0.00 |
| 15.94 | 1.56 | 0.00 | 2.03 | 0.02 | 0.00 | 15.96 | 1.62 | 0.00 | 2.02 | 0.02 | 0.00 |
| 15.98 | 1.70 | 0.00 | 2.01 | 0.02 | 0.00 | 16.00 | 1.71 | 0.00 | 2.00 | 0.02 | 0.00 |
| 16.02 | 1.66 | 0.00 | 1.99 | 0.02 | 0.00 | 16.04 | 1.64 | 0.00 | 1.98 | 0.02 | 0.00 |
| 16.06 | 1.67 | 0.00 | 1.97 | 0.02 | 0.00 | 16.08 | 1.71 | 0.00 | 1.96 | 0.02 | 0.00 |
| 16.10 | 1.77 | 0.00 | 1.95 | 0.02 | 0.00 | 16.12 | 2.00 | 0.00 | 1.94 | 0.02 | 0.00 |
| 16.14 | 2.00 | 0.00 | 1.93 | 0.02 | 0.00 | 16.16 | 2.00 | 0.00 | 1.92 | 0.02 | 0.00 |
| 16.18 | 2.00 | 0.00 | 1.91 | 0.02 | 0.00 | 16.20 | 2.00 | 0.00 | 1.90 | 0.02 | 0.00 |
| 16.22 | 2.00 | 0.00 | 1.89 | 0.02 | 0.00 | 16.24 | 2.00 | 0.00 | 1.88 | 0.02 | 0.00 |
| 16.26 | 2.00 | 0.00 | 1.87 | 0.02 | 0.00 | 16.28 | 1.91 | 0.00 | 1.86 | 0.02 | 0.00 |
| 16.30 | 1.96 | 0.00 | 1.85 | 0.02 | 0.00 | 16.32 | 1.90 | 0.00 | 1.84 | 0.02 | 0.00 |
| 16.34 | 2.00 | 0.00 | 1.83 | 0.02 | 0.00 | 16.36 | 2.00 | 0.00 | 1.82 | 0.02 | 0.00 |
| 16.38 | 1.66 | 0.00 | 1.81 | 0.02 | 0.00 | 16.40 | 1.60 | 0.00 | 1.80 | 0.02 | 0.00 |
| 16.42 | 1.61 | 0.00 | 1.79 | 0.02 | 0.00 | 16.44 | 1.62 | 0.00 | 1.78 | 0.02 | 0.00 |
| 16.46 | 1.63 | 0.00 | 1.77 | 0.02 | 0.00 | 16.48 | 1.63 | 0.00 | 1.76 | 0.02 | 0.00 |
| 16.50 | 1.63 | 0.00 | 1.75 | 0.02 | 0.00 | 16.52 | 1.63 | 0.00 | 1.74 | 0.02 | 0.00 |
| 16.54 | 1.63 | 0.00 | 1.73 | 0.02 | 0.00 | 16.56 | 1.62 | 0.00 | 1.72 | 0.02 | 0.00 |
| 16.58 | 1.60 | 0.00 | 1.71 | 0.02 | 0.00 | 16.60 | 1.59 | 0.00 | 1.70 | 0.02 | 0.00 |
| 16.62 | 1.59 | 0.00 | 1.69 | 0.02 | 0.00 | 16.64 | 1.63 | 0.00 | 1.68 | 0.02 | 0.00 |
| 16.66 | 1.68 | 0.00 | 1.67 | 0.02 | 0.00 | 16.68 | 1.73 | 0.00 | 1.66 | 0.02 | 0.00 |
| 16.70 | 1.73 | 0.00 | 1.65 | 0.02 | 0.00 | 16.72 | 1.71 | 0.00 | 1.64 | 0.02 | 0.00 |
| 16.74 | 1.73 | 0.00 | 1.63 | 0.02 | 0.00 | 16.76 | 1.85 | 0.00 | 1.62 | 0.02 | 0.00 |
| 16.78 | 2.00 | 0.00 | 1.61 | 0.02 | 0.00 | 16.80 | 2.00 | 0.00 | 1.60 | 0.02 | 0.00 |
| 16.82 | 2.00 | 0.00 | 1.59 | 0.02 | 0.00 | 16.84 | 2.00 | 0.00 | 1.58 | 0.02 | 0.00 |
| 16.86 | 2.00 | 0.00 | 1.57 | 0.02 | 0.00 | 16.88 | 2.00 | 0.00 | 1.56 | 0.02 | 0.00 |
| 16.90 | 2.00 | 0.00 | 1.55 | 0.02 | 0.00 | 16.92 | 2.00 | 0.00 | 1.54 | 0.02 | 0.00 |
| 16.94 | 2.00 | 0.00 | 1.53 | 0.02 | 0.00 | 16.96 | 2.00 | 0.00 | 1.52 | 0.02 | 0.00 |
| 16.98 | 2.00 | 0.00 | 1.51 | 0.02 | 0.00 | 17.00 | 2.00 | 0.00 | 1.50 | 0.02 | 0.00 |
| 17.02 | 2.00 | 0.00 | 1.49 | 0.02 | 0.00 | 17.04 | 2.00 | 0.00 | 1.48 | 0.02 | 0.00 |
| 17.06 | 2.00 | 0.00 | 1.47 | 0.02 | 0.00 | 17.08 | 2.00 | 0.00 | 1.46 | 0.02 | 0.00 |
| 17.10 | 2.00 | 0.00 | 1.45 | 0.02 | 0.00 | 17.12 | 2.00 | 0.00 | 1.44 | 0.02 | 0.00 |
| 17.14 | 2.00 | 0.00 | 1.43 | 0.02 | 0.00 | 17.16 | 2.00 | 0.00 | 1.42 | 0.02 | 0.00 |
| 17.18 | 2.00 | 0.00 | 1.41 | 0.02 | 0.00 | 17.20 | 2.00 | 0.00 | 1.40 | 0.02 | 0.00 |
| 17.22 | 2.00 | 0.00 | 1.39 | 0.02 | 0.00 | 17.24 | 2.00 | 0.00 | 1.38 | 0.02 | 0.00 |
| 17.26 | 2.00 | 0.00 | 1.37 | 0.02 | 0.00 | 17.28 | 2.00 | 0.00 | 1.36 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 17.30 | 2.00 | 0.00 | 1.35 | 0.02 | 0.00 | 17.32 | 2.00 | 0.00 | 1.34 | 0.02 | 0.00 |
| 17.34 | 2.00 | 0.00 | 1.33 | 0.02 | 0.00 | 17.36 | 2.00 | 0.00 | 1.32 | 0.02 | 0.00 |
| 17.38 | 2.00 | 0.00 | 1.31 | 0.02 | 0.00 | 17.40 | 2.00 | 0.00 | 1.30 | 0.02 | 0.00 |
| 17.42 | 2.00 | 0.00 | 1.29 | 0.02 | 0.00 | 17.44 | 2.00 | 0.00 | 1.28 | 0.02 | 0.00 |
| 17.46 | 2.00 | 0.00 | 1.27 | 0.02 | 0.00 | 17.48 | 2.00 | 0.00 | 1.26 | 0.02 | 0.00 |
| 17.50 | 2.00 | 0.00 | 1.25 | 0.02 | 0.00 | 17.52 | 2.00 | 0.00 | 1.24 | 0.02 | 0.00 |
| 17.54 | 2.00 | 0.00 | 1.23 | 0.02 | 0.00 | 17.56 | 2.00 | 0.00 | 1.22 | 0.02 | 0.00 |
| 17.58 | 2.00 | 0.00 | 1.21 | 0.02 | 0.00 | 17.60 | 2.00 | 0.00 | 1.20 | 0.02 | 0.00 |
| 17.62 | 2.00 | 0.00 | 1.19 | 0.02 | 0.00 | 17.64 | 2.00 | 0.00 | 1.18 | 0.02 | 0.00 |
| 17.66 | 2.00 | 0.00 | 1.17 | 0.02 | 0.00 | 17.68 | 2.00 | 0.00 | 1.16 | 0.02 | 0.00 |
| 17.70 | 2.00 | 0.00 | 1.15 | 0.02 | 0.00 | 17.72 | 2.00 | 0.00 | 1.14 | 0.02 | 0.00 |
| 17.74 | 2.00 | 0.00 | 1.13 | 0.02 | 0.00 | 17.76 | 2.00 | 0.00 | 1.12 | 0.02 | 0.00 |
| 17.78 | 2.00 | 0.00 | 1.11 | 0.02 | 0.00 | 17.80 | 2.00 | 0.00 | 1.10 | 0.02 | 0.00 |
| 17.82 | 2.00 | 0.00 | 1.09 | 0.02 | 0.00 | 17.84 | 2.00 | 0.00 | 1.08 | 0.02 | 0.00 |
| 17.86 | 2.00 | 0.00 | 1.07 | 0.02 | 0.00 | 17.88 | 2.00 | 0.00 | 1.06 | 0.02 | 0.00 |
| 17.90 | 2.00 | 0.00 | 1.05 | 0.02 | 0.00 | 17.92 | 2.00 | 0.00 | 1.04 | 0.02 | 0.00 |
| 17.94 | 2.00 | 0.00 | 1.03 | 0.02 | 0.00 | 17.96 | 2.00 | 0.00 | 1.02 | 0.02 | 0.00 |
| 17.98 | 2.00 | 0.00 | 1.01 | 0.02 | 0.00 | 18.00 | 2.00 | 0.00 | 1.00 | 0.02 | 0.00 |
| 18.02 | 2.00 | 0.00 | 0.99 | 0.02 | 0.00 | 18.04 | 2.00 | 0.00 | 0.98 | 0.02 | 0.00 |
| 18.06 | 2.00 | 0.00 | 0.97 | 0.02 | 0.00 | 18.08 | 2.00 | 0.00 | 0.96 | 0.02 | 0.00 |
| 18.10 | 2.00 | 0.00 | 0.95 | 0.02 | 0.00 | 18.12 | 2.00 | 0.00 | 0.94 | 0.02 | 0.00 |
| 18.14 | 2.00 | 0.00 | 0.93 | 0.02 | 0.00 | 18.16 | 2.00 | 0.00 | 0.92 | 0.02 | 0.00 |
| 18.18 | 2.00 | 0.00 | 0.91 | 0.02 | 0.00 | 18.20 | 2.00 | 0.00 | 0.90 | 0.02 | 0.00 |
| 18.22 | 2.00 | 0.00 | 0.89 | 0.02 | 0.00 | 18.24 | 2.00 | 0.00 | 0.88 | 0.02 | 0.00 |
| 18.26 | 2.00 | 0.00 | 0.87 | 0.02 | 0.00 | 18.28 | 2.00 | 0.00 | 0.86 | 0.02 | 0.00 |
| 18.30 | 2.00 | 0.00 | 0.85 | 0.02 | 0.00 | 18.32 | 2.00 | 0.00 | 0.84 | 0.02 | 0.00 |
| 18.34 | 2.00 | 0.00 | 0.83 | 0.02 | 0.00 | 18.36 | 2.00 | 0.00 | 0.82 | 0.02 | 0.00 |
| 18.38 | 2.00 | 0.00 | 0.81 | 0.02 | 0.00 | 18.40 | 2.00 | 0.00 | 0.80 | 0.02 | 0.00 |
| 18.42 | 2.00 | 0.00 | 0.79 | 0.02 | 0.00 | 18.44 | 2.00 | 0.00 | 0.78 | 0.02 | 0.00 |
| 18.46 | 2.00 | 0.00 | 0.77 | 0.02 | 0.00 | 18.48 | 2.00 | 0.00 | 0.76 | 0.02 | 0.00 |
| 18.50 | 2.00 | 0.00 | 0.75 | 0.02 | 0.00 | 18.52 | 2.00 | 0.00 | 0.74 | 0.02 | 0.00 |
| 18.54 | 2.00 | 0.00 | 0.73 | 0.02 | 0.00 | 18.56 | 2.00 | 0.00 | 0.72 | 0.02 | 0.00 |
| 18.58 | 2.00 | 0.00 | 0.71 | 0.02 | 0.00 | 18.60 | 1.77 | 0.00 | 0.70 | 0.02 | 0.00 |
| 18.62 | 1.90 | 0.00 | 0.69 | 0.02 | 0.00 | 18.64 | 1.94 | 0.00 | 0.68 | 0.02 | 0.00 |
| 18.66 | 1.93 | 0.00 | 0.67 | 0.02 | 0.00 | 18.68 | 1.88 | 0.00 | 0.66 | 0.02 | 0.00 |
| 18.70 | 1.86 | 0.00 | 0.65 | 0.02 | 0.00 | 18.72 | 1.93 | 0.00 | 0.64 | 0.02 | 0.00 |
| 18.74 | 2.00 | 0.00 | 0.63 | 0.02 | 0.00 | 18.76 | 2.00 | 0.00 | 0.62 | 0.02 | 0.00 |
| 18.78 | 2.00 | 0.00 | 0.61 | 0.02 | 0.00 | 18.80 | 2.00 | 0.00 | 0.60 | 0.02 | 0.00 |
| 18.82 | 2.00 | 0.00 | 0.59 | 0.02 | 0.00 | 18.84 | 2.00 | 0.00 | 0.58 | 0.02 | 0.00 |
| 18.86 | 2.00 | 0.00 | 0.57 | 0.02 | 0.00 | 18.88 | 2.00 | 0.00 | 0.56 | 0.02 | 0.00 |
| 18.90 | 2.00 | 0.00 | 0.55 | 0.02 | 0.00 | 18.92 | 2.00 | 0.00 | 0.54 | 0.02 | 0.00 |
| 18.94 | 2.00 | 0.00 | 0.53 | 0.02 | 0.00 | 18.96 | 2.00 | 0.00 | 0.52 | 0.02 | 0.00 |
| 18.98 | 2.00 | 0.00 | 0.51 | 0.02 | 0.00 | 19.00 | 2.00 | 0.00 | 0.50 | 0.02 | 0.00 |
| 19.02 | 2.00 | 0.00 | 0.49 | 0.02 | 0.00 | 19.04 | 2.00 | 0.00 | 0.48 | 0.02 | 0.00 |
| 19.06 | 2.00 | 0.00 | 0.47 | 0.02 | 0.00 | 19.08 | 2.00 | 0.00 | 0.46 | 0.02 | 0.00 |
| 19.10 | 2.00 | 0.00 | 0.45 | 0.02 | 0.00 | 19.12 | 2.00 | 0.00 | 0.44 | 0.02 | 0.00 |
| 19.14 | 2.00 | 0.00 | 0.43 | 0.02 | 0.00 | 19.16 | 2.00 | 0.00 | 0.42 | 0.02 | 0.00 |
| 19.18 | 2.00 | 0.00 | 0.41 | 0.02 | 0.00 | 19.20 | 2.00 | 0.00 | 0.40 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 19.22 | 2.00 | 0.00 | 0.39 | 0.02 | 0.00 | 19.24 | 2.00 | 0.00 | 0.38 | 0.02 | 0.00 |
| 19.26 | 2.00 | 0.00 | 0.37 | 0.02 | 0.00 | 19.28 | 2.00 | 0.00 | 0.36 | 0.02 | 0.00 |
| 19.30 | 2.00 | 0.00 | 0.35 | 0.02 | 0.00 | 19.32 | 2.00 | 0.00 | 0.34 | 0.02 | 0.00 |
| 19.34 | 2.00 | 0.00 | 0.33 | 0.02 | 0.00 | 19.36 | 2.00 | 0.00 | 0.32 | 0.02 | 0.00 |
| 19.38 | 2.00 | 0.00 | 0.31 | 0.02 | 0.00 | 19.40 | 2.00 | 0.00 | 0.30 | 0.02 | 0.00 |
| 19.42 | 2.00 | 0.00 | 0.29 | 0.02 | 0.00 | 19.44 | 2.00 | 0.00 | 0.28 | 0.02 | 0.00 |
| 19.46 | 2.00 | 0.00 | 0.27 | 0.02 | 0.00 | 19.48 | 2.00 | 0.00 | 0.26 | 0.02 | 0.00 |
| 19.50 | 2.00 | 0.00 | 0.25 | 0.02 | 0.00 | 19.52 | 2.00 | 0.00 | 0.24 | 0.02 | 0.00 |
| 19.54 | 2.00 | 0.00 | 0.23 | 0.02 | 0.00 | 19.56 | 2.00 | 0.00 | 0.22 | 0.02 | 0.00 |
| 19.58 | 2.00 | 0.00 | 0.21 | 0.02 | 0.00 | 19.60 | 2.00 | 0.00 | 0.20 | 0.02 | 0.00 |
| 19.62 | 2.00 | 0.00 | 0.19 | 0.02 | 0.00 | 19.64 | 2.00 | 0.00 | 0.18 | 0.02 | 0.00 |
| 19.66 | 2.00 | 0.00 | 0.17 | 0.02 | 0.00 | 19.68 | 1.70 | 0.00 | 0.16 | 0.02 | 0.00 |
| 19.70 | 1.81 | 0.00 | 0.15 | 0.02 | 0.00 | 19.72 | 2.00 | 0.00 | 0.14 | 0.02 | 0.00 |
| 19.74 | 2.00 | 0.00 | 0.13 | 0.02 | 0.00 | 19.76 | 2.00 | 0.00 | 0.12 | 0.02 | 0.00 |
| 19.78 | 2.00 | 0.00 | 0.11 | 0.02 | 0.00 | 19.80 | 2.00 | 0.00 | 0.10 | 0.02 | 0.00 |
| 19.82 | 2.00 | 0.00 | 0.09 | 0.02 | 0.00 | 19.84 | 2.00 | 0.00 | 0.08 | 0.02 | 0.00 |
| 19.86 | 2.00 | 0.00 | 0.07 | 0.02 | 0.00 | 19.88 | 2.00 | 0.00 | 0.06 | 0.02 | 0.00 |
| 19.90 | 2.00 | 0.00 | 0.05 | 0.02 | 0.00 | | | | | | |

Overall liquefaction potential: 0.00

LPI = 0.00 - Liquefaction risk very low

LPI between 0.00 and 5.00 - Liquefaction risk low

LPI between 5.00 and 15.00 - Liquefaction risk high

LPI > 15.00 - Liquefaction risk very high

Abbreviations

FS: Calculated factor of safety for test point

F_L: 1 - FSw_z: Function value of the extend of soil liquefaction according to depthd_z: Layer thickness (m)

LPI: Liquefaction potential index value for test point

LIQUEFACTION ANALYSIS REPORT

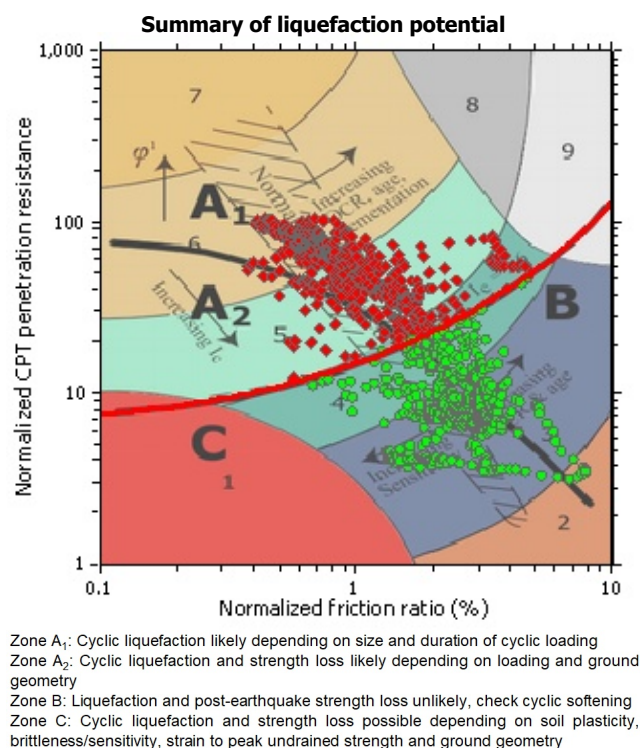
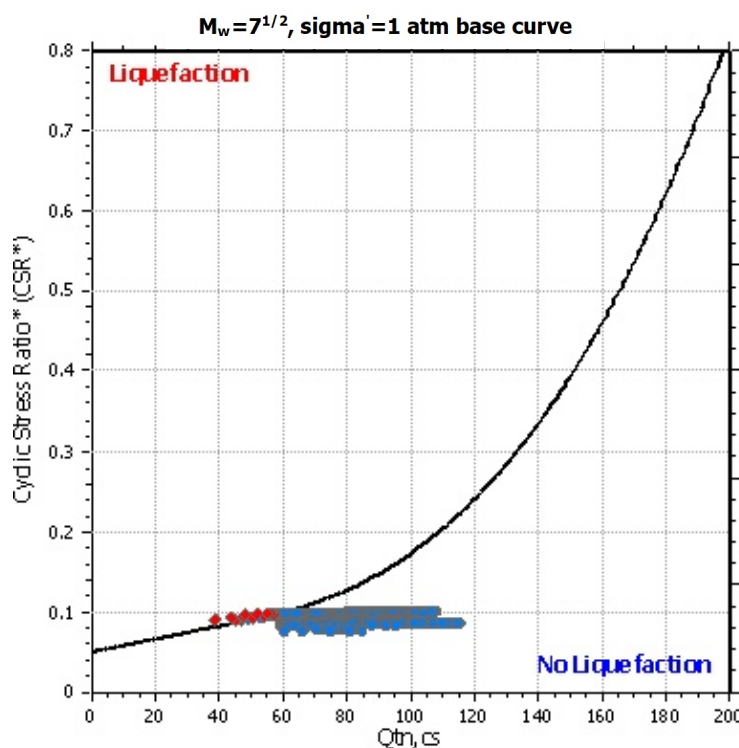
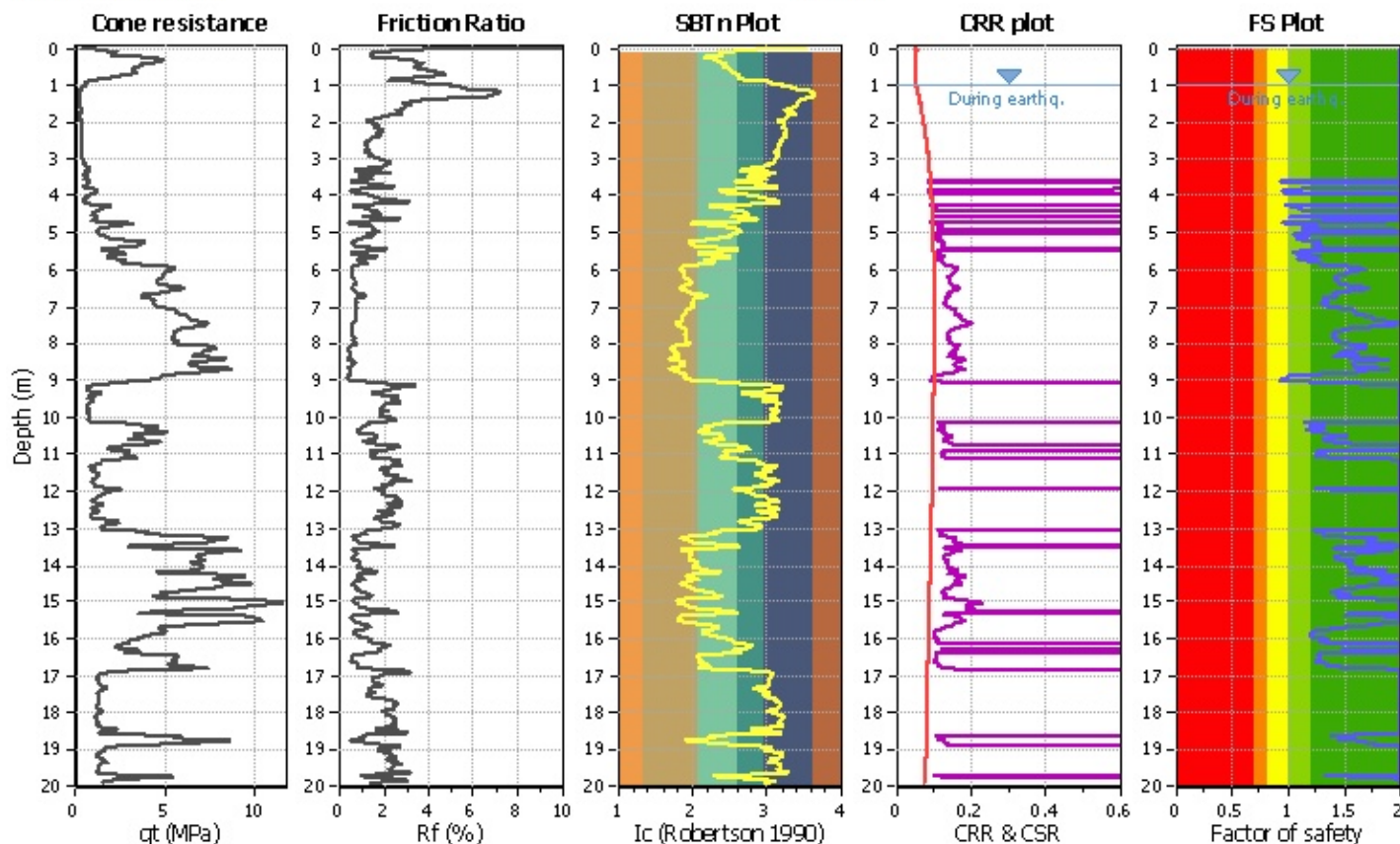
Project title :

Location :

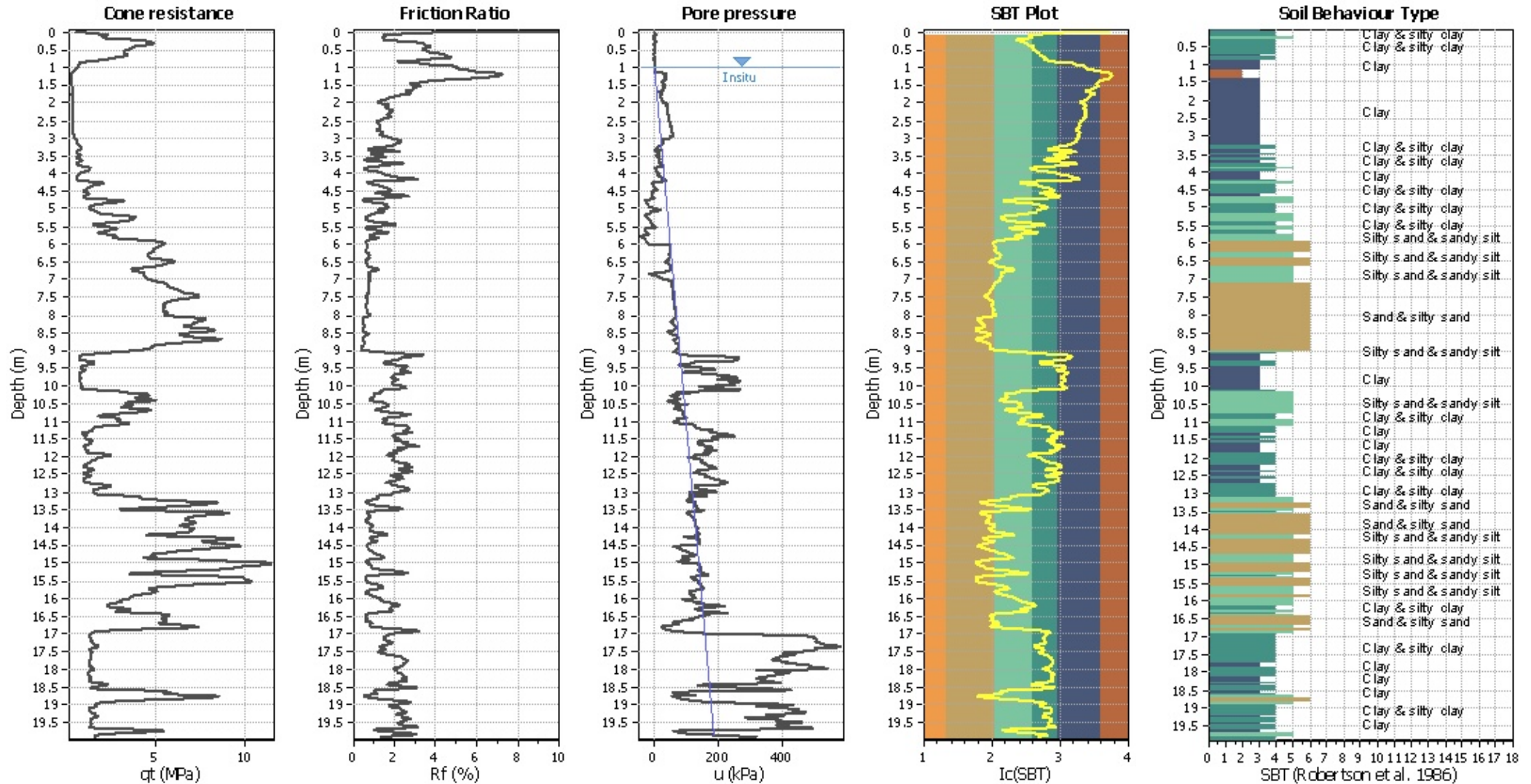
CPT file : CPTU4

Input parameters and analysis data

| | | | | | | | |
|------------------------------|-------------------|---------------------------|--------------|-------------------------|-----|----------------------|--------------|
| Analysis method: | NCEER (1998) | G.W.T. (in-situ): | 1.00 m | Use fill: | No | Clay like behavior | |
| Fines correction method: | NCEER (1998) | G.W.T. (earthq.): | 1.00 m | Fill height: | N/A | applied: | Sands only |
| Points to test: | Based on Ic value | Average results interval: | 3 | Fill weight: | N/A | Limit depth applied: | No |
| Earthquake magnitude M_w : | 5.50 | Ic cut-off value: | 2.60 | Trans. detect. applied: | No | Limit depth: | N/A |
| Peak ground acceleration: | 0.17 | Unit weight calculation: | Based on SBT | K_0 applied: | Yes | MSF method: | Method based |



CPT basic interpretation plo



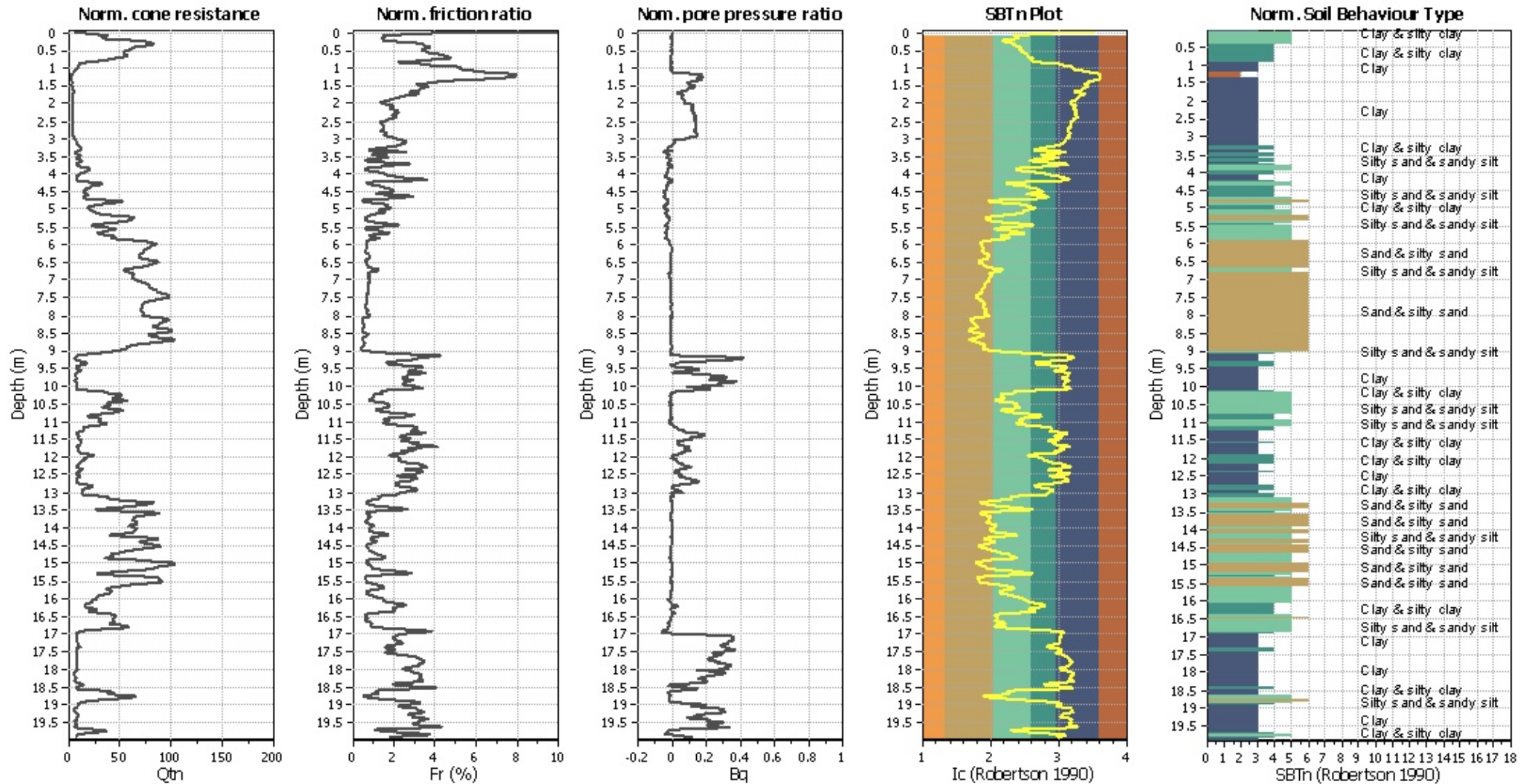
Input parameters and analysis data

| | | | | | |
|---------------------------------------|-------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K ₀ applied: | Yes |
| Earthquake magnitude M _w : | 5.50 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

SBT legend

| | | |
|---------------------------|-----------------------------|----------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty | 7. Gravely sand to sand |
| 2. Organic material | 5. Silty sand to sandy silt | 8. Very stiff sand to |
| 3. Clay to silty clay | 6. Clean sand to silty sand | 9. Very stiff fine grained |

CPT basic interpretation plots (normaliz



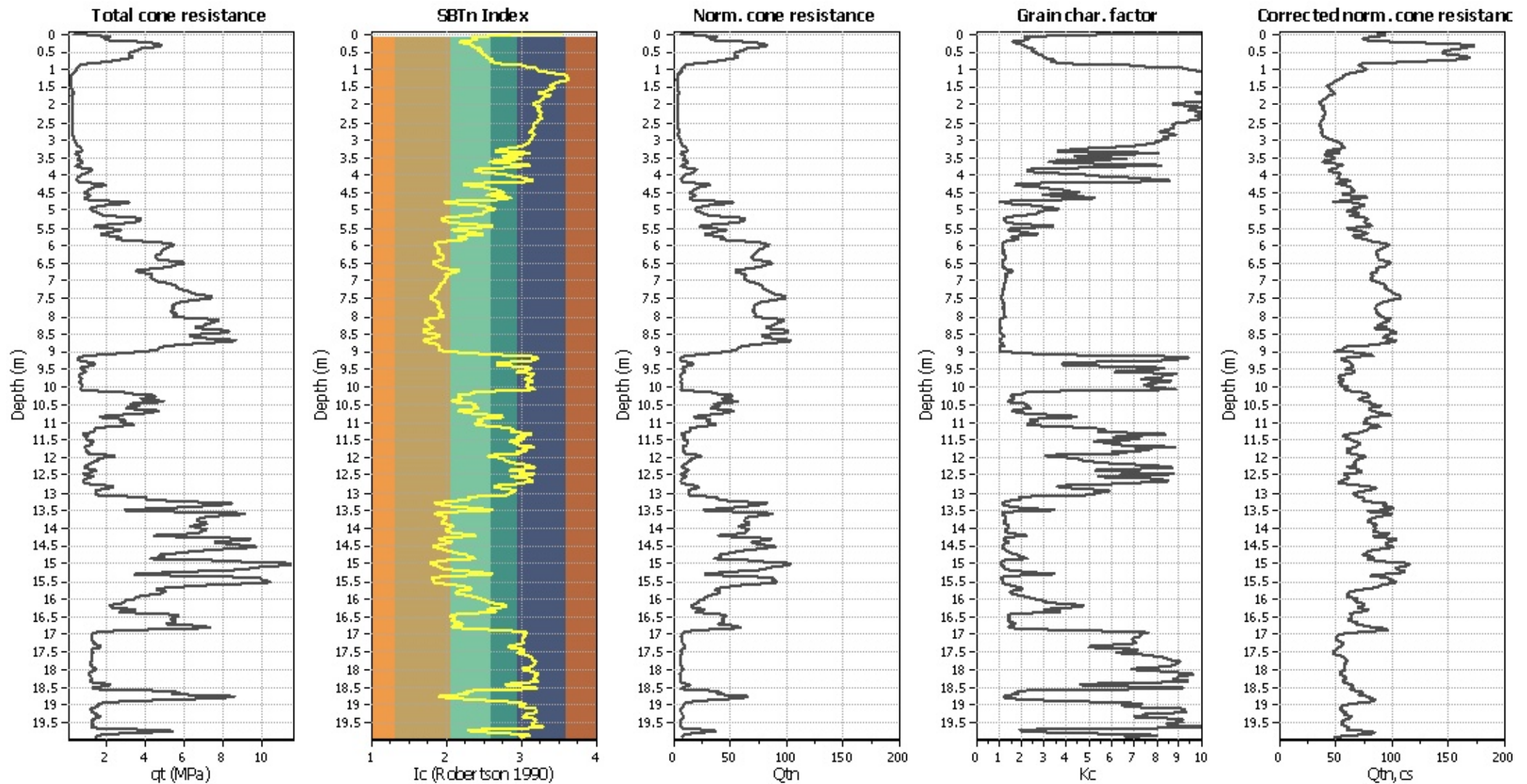
Input parameters and analysis data

| | | | | | |
|---------------------------------------|-------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K ₀ applied: | Yes |
| Earthquake magnitude M _w : | 5.50 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

SBTn legend

| | | |
|---------------------------|-----------------------------|----------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty | 7. Gravely sand to sand |
| 2. Organic material | 5. Silty sand to sandy silt | 8. Very stiff sand to |
| 3. Clay to silty clay | 6. Clean sand to silty sand | 9. Very stiff fine grained |

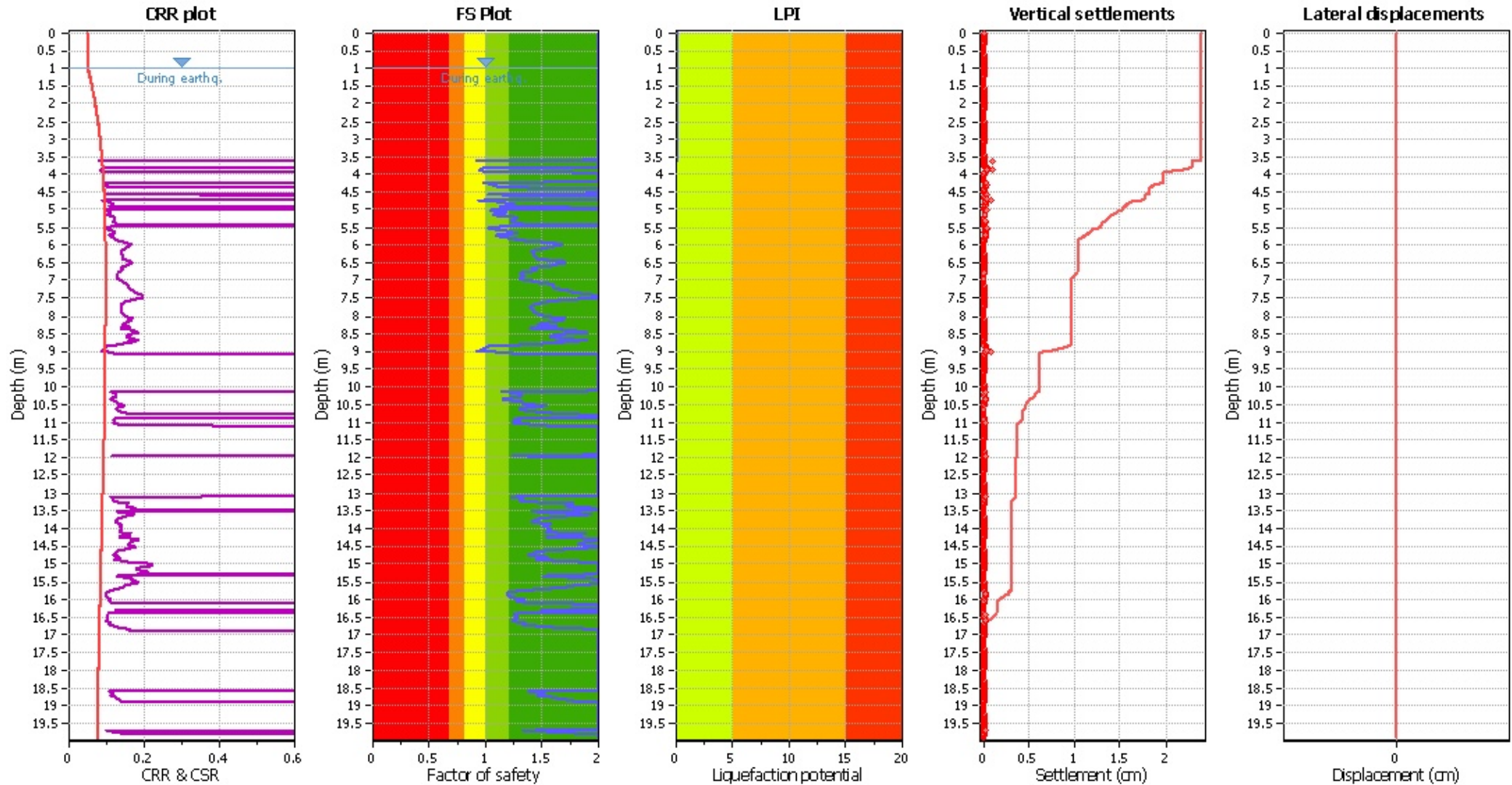
Liquefaction analysis overall plots (intermediate res)



Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 5.50 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

Liquefaction analysis overall plot



Input parameters and analysis data

| | | | | | |
|--------------------------------|-------------------|---------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (earthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 5.50 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

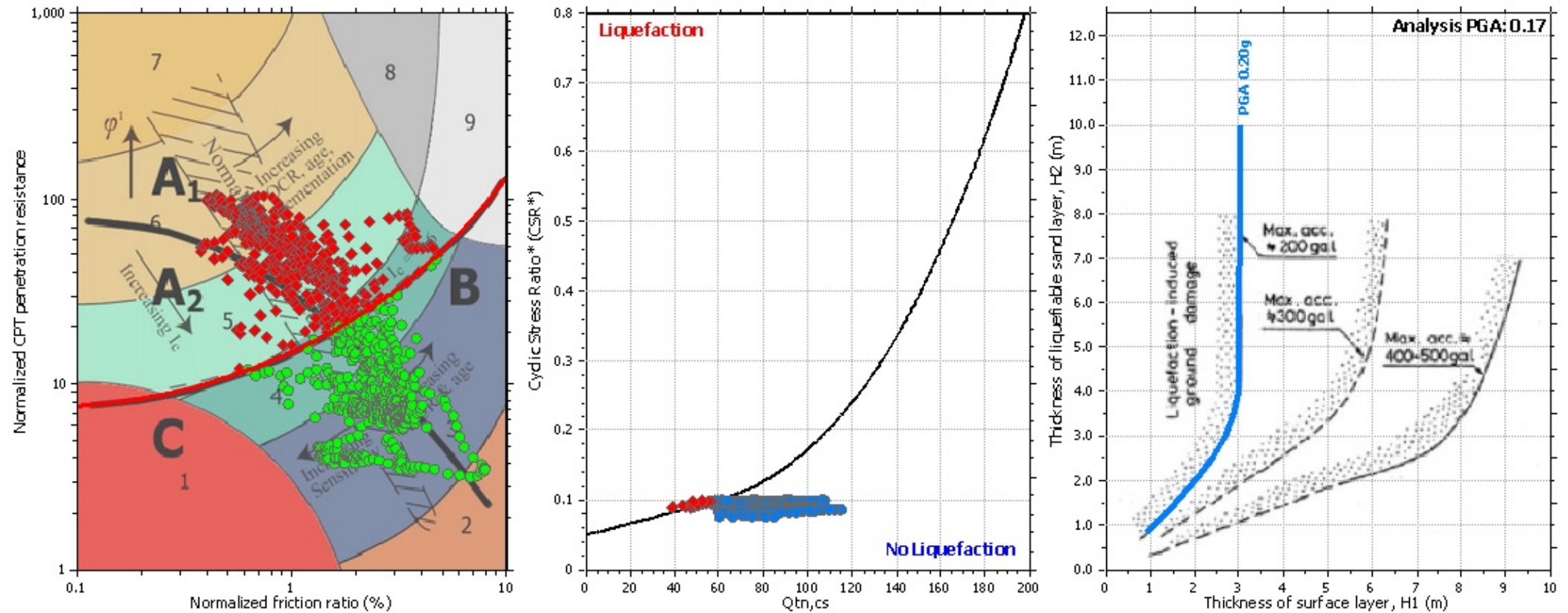
F.S. color scheme

| | |
|--|---|
| ■ | Almost certain it will liquefy |
| ■ | Very likely to liquefy |
| ■ | Liquefaction and no liq. are equally likely |
| ■ | Unlike to liquefy |
| ■ | Almost certain it will not liquefy |

LPI color scheme

| | |
|---------------------------------------|----------------|
| ■ | Very high risk |
| ■ | High risk |
| ■ | Low risk |

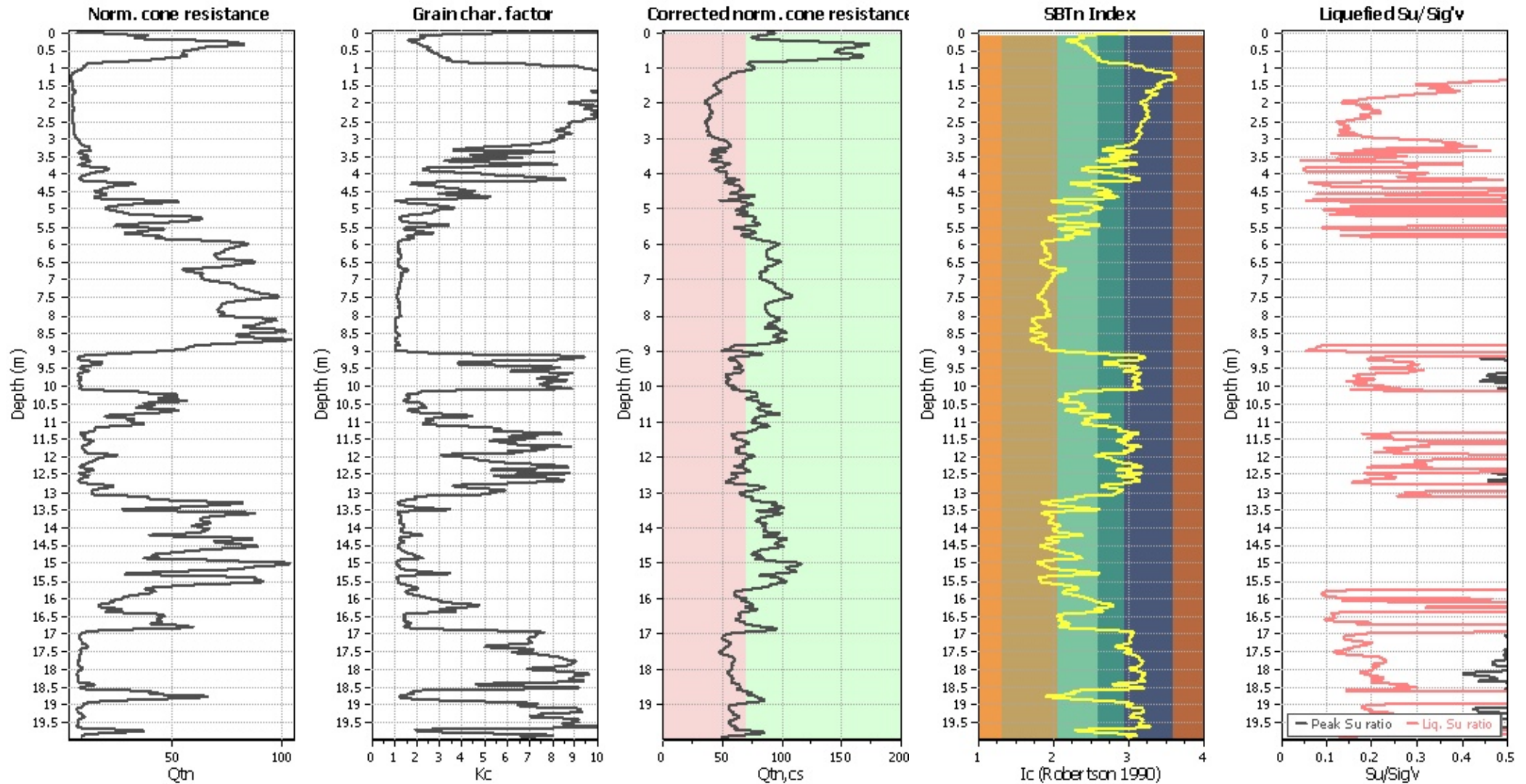
Liquefaction analysis summary plo



Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 5.50 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

Check for strength loss plots (Robertson (2010))



Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 5.50 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

| :: Liquefaction Potential Index calculation data :: | | | | | | | | | | | |
|---|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
| 0.02 | 2.00 | 0.00 | 9.99 | 0.02 | 0.00 | 0.04 | 2.00 | 0.00 | 9.98 | 0.02 | 0.00 |
| 0.06 | 2.00 | 0.00 | 9.97 | 0.02 | 0.00 | 0.08 | 2.00 | 0.00 | 9.96 | 0.02 | 0.00 |
| 0.10 | 2.00 | 0.00 | 9.95 | 0.02 | 0.00 | 0.12 | 2.00 | 0.00 | 9.94 | 0.02 | 0.00 |
| 0.14 | 2.00 | 0.00 | 9.93 | 0.02 | 0.00 | 0.16 | 2.00 | 0.00 | 9.92 | 0.02 | 0.00 |
| 0.18 | 2.00 | 0.00 | 9.91 | 0.02 | 0.00 | 0.20 | 2.00 | 0.00 | 9.90 | 0.02 | 0.00 |
| 0.22 | 2.00 | 0.00 | 9.89 | 0.02 | 0.00 | 0.24 | 2.00 | 0.00 | 9.88 | 0.02 | 0.00 |
| 0.26 | 2.00 | 0.00 | 9.87 | 0.02 | 0.00 | 0.28 | 2.00 | 0.00 | 9.86 | 0.02 | 0.00 |
| 0.30 | 2.00 | 0.00 | 9.85 | 0.02 | 0.00 | 0.32 | 2.00 | 0.00 | 9.84 | 0.02 | 0.00 |
| 0.34 | 2.00 | 0.00 | 9.83 | 0.02 | 0.00 | 0.36 | 2.00 | 0.00 | 9.82 | 0.02 | 0.00 |
| 0.38 | 2.00 | 0.00 | 9.81 | 0.02 | 0.00 | 0.40 | 2.00 | 0.00 | 9.80 | 0.02 | 0.00 |
| 0.42 | 2.00 | 0.00 | 9.79 | 0.02 | 0.00 | 0.44 | 2.00 | 0.00 | 9.78 | 0.02 | 0.00 |
| 0.46 | 2.00 | 0.00 | 9.77 | 0.02 | 0.00 | 0.48 | 2.00 | 0.00 | 9.76 | 0.02 | 0.00 |
| 0.50 | 2.00 | 0.00 | 9.75 | 0.02 | 0.00 | 0.52 | 2.00 | 0.00 | 9.74 | 0.02 | 0.00 |
| 0.54 | 2.00 | 0.00 | 9.73 | 0.02 | 0.00 | 0.56 | 2.00 | 0.00 | 9.72 | 0.02 | 0.00 |
| 0.58 | 2.00 | 0.00 | 9.71 | 0.02 | 0.00 | 0.60 | 2.00 | 0.00 | 9.70 | 0.02 | 0.00 |
| 0.62 | 2.00 | 0.00 | 9.69 | 0.02 | 0.00 | 0.64 | 2.00 | 0.00 | 9.68 | 0.02 | 0.00 |
| 0.66 | 2.00 | 0.00 | 9.67 | 0.02 | 0.00 | 0.68 | 2.00 | 0.00 | 9.66 | 0.02 | 0.00 |
| 0.70 | 2.00 | 0.00 | 9.65 | 0.02 | 0.00 | 0.72 | 2.00 | 0.00 | 9.64 | 0.02 | 0.00 |
| 0.74 | 2.00 | 0.00 | 9.63 | 0.02 | 0.00 | 0.76 | 2.00 | 0.00 | 9.62 | 0.02 | 0.00 |
| 0.78 | 2.00 | 0.00 | 9.61 | 0.02 | 0.00 | 0.80 | 2.00 | 0.00 | 9.60 | 0.02 | 0.00 |
| 0.82 | 2.00 | 0.00 | 9.59 | 0.02 | 0.00 | 0.84 | 2.00 | 0.00 | 9.58 | 0.02 | 0.00 |
| 0.86 | 2.00 | 0.00 | 9.57 | 0.02 | 0.00 | 0.88 | 2.00 | 0.00 | 9.56 | 0.02 | 0.00 |
| 0.90 | 2.00 | 0.00 | 9.55 | 0.02 | 0.00 | 0.92 | 2.00 | 0.00 | 9.54 | 0.02 | 0.00 |
| 0.94 | 2.00 | 0.00 | 9.53 | 0.02 | 0.00 | 0.96 | 2.00 | 0.00 | 9.52 | 0.02 | 0.00 |
| 0.98 | 2.00 | 0.00 | 9.51 | 0.02 | 0.00 | 1.00 | 2.00 | 0.00 | 9.50 | 0.02 | 0.00 |
| 1.02 | 2.00 | 0.00 | 9.49 | 0.02 | 0.00 | 1.04 | 2.00 | 0.00 | 9.48 | 0.02 | 0.00 |
| 1.06 | 2.00 | 0.00 | 9.47 | 0.02 | 0.00 | 1.08 | 2.00 | 0.00 | 9.46 | 0.02 | 0.00 |
| 1.10 | 2.00 | 0.00 | 9.45 | 0.02 | 0.00 | 1.12 | 2.00 | 0.00 | 9.44 | 0.02 | 0.00 |
| 1.14 | 2.00 | 0.00 | 9.43 | 0.02 | 0.00 | 1.16 | 2.00 | 0.00 | 9.42 | 0.02 | 0.00 |
| 1.18 | 2.00 | 0.00 | 9.41 | 0.02 | 0.00 | 1.20 | 2.00 | 0.00 | 9.40 | 0.02 | 0.00 |
| 1.22 | 2.00 | 0.00 | 9.39 | 0.02 | 0.00 | 1.24 | 2.00 | 0.00 | 9.38 | 0.02 | 0.00 |
| 1.26 | 2.00 | 0.00 | 9.37 | 0.02 | 0.00 | 1.28 | 2.00 | 0.00 | 9.36 | 0.02 | 0.00 |
| 1.30 | 2.00 | 0.00 | 9.35 | 0.02 | 0.00 | 1.32 | 2.00 | 0.00 | 9.34 | 0.02 | 0.00 |
| 1.34 | 2.00 | 0.00 | 9.33 | 0.02 | 0.00 | 1.36 | 2.00 | 0.00 | 9.32 | 0.02 | 0.00 |
| 1.38 | 2.00 | 0.00 | 9.31 | 0.02 | 0.00 | 1.40 | 2.00 | 0.00 | 9.30 | 0.02 | 0.00 |
| 1.42 | 2.00 | 0.00 | 9.29 | 0.02 | 0.00 | 1.44 | 2.00 | 0.00 | 9.28 | 0.02 | 0.00 |
| 1.46 | 2.00 | 0.00 | 9.27 | 0.02 | 0.00 | 1.48 | 2.00 | 0.00 | 9.26 | 0.02 | 0.00 |
| 1.50 | 2.00 | 0.00 | 9.25 | 0.02 | 0.00 | 1.52 | 2.00 | 0.00 | 9.24 | 0.02 | 0.00 |
| 1.54 | 2.00 | 0.00 | 9.23 | 0.02 | 0.00 | 1.56 | 2.00 | 0.00 | 9.22 | 0.02 | 0.00 |
| 1.58 | 2.00 | 0.00 | 9.21 | 0.02 | 0.00 | 1.60 | 2.00 | 0.00 | 9.20 | 0.02 | 0.00 |
| 1.62 | 2.00 | 0.00 | 9.19 | 0.02 | 0.00 | 1.64 | 2.00 | 0.00 | 9.18 | 0.02 | 0.00 |
| 1.66 | 2.00 | 0.00 | 9.17 | 0.02 | 0.00 | 1.68 | 2.00 | 0.00 | 9.16 | 0.02 | 0.00 |
| 1.70 | 2.00 | 0.00 | 9.15 | 0.02 | 0.00 | 1.72 | 2.00 | 0.00 | 9.14 | 0.02 | 0.00 |
| 1.74 | 2.00 | 0.00 | 9.13 | 0.02 | 0.00 | 1.76 | 2.00 | 0.00 | 9.12 | 0.02 | 0.00 |
| 1.78 | 2.00 | 0.00 | 9.11 | 0.02 | 0.00 | 1.80 | 2.00 | 0.00 | 9.10 | 0.02 | 0.00 |
| 1.82 | 2.00 | 0.00 | 9.09 | 0.02 | 0.00 | 1.84 | 2.00 | 0.00 | 9.08 | 0.02 | 0.00 |
| 1.86 | 2.00 | 0.00 | 9.07 | 0.02 | 0.00 | 1.88 | 2.00 | 0.00 | 9.06 | 0.02 | 0.00 |
| 1.90 | 2.00 | 0.00 | 9.05 | 0.02 | 0.00 | 1.92 | 2.00 | 0.00 | 9.04 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 1.94 | 2.00 | 0.00 | 9.03 | 0.02 | 0.00 | 1.96 | 2.00 | 0.00 | 9.02 | 0.02 | 0.00 |
| 1.98 | 2.00 | 0.00 | 9.01 | 0.02 | 0.00 | 2.00 | 2.00 | 0.00 | 9.00 | 0.02 | 0.00 |
| 2.02 | 2.00 | 0.00 | 8.99 | 0.02 | 0.00 | 2.04 | 2.00 | 0.00 | 8.98 | 0.02 | 0.00 |
| 2.06 | 2.00 | 0.00 | 8.97 | 0.02 | 0.00 | 2.08 | 2.00 | 0.00 | 8.96 | 0.02 | 0.00 |
| 2.10 | 2.00 | 0.00 | 8.95 | 0.02 | 0.00 | 2.12 | 2.00 | 0.00 | 8.94 | 0.02 | 0.00 |
| 2.14 | 2.00 | 0.00 | 8.93 | 0.02 | 0.00 | 2.16 | 2.00 | 0.00 | 8.92 | 0.02 | 0.00 |
| 2.18 | 2.00 | 0.00 | 8.91 | 0.02 | 0.00 | 2.20 | 2.00 | 0.00 | 8.90 | 0.02 | 0.00 |
| 2.22 | 2.00 | 0.00 | 8.89 | 0.02 | 0.00 | 2.24 | 2.00 | 0.00 | 8.88 | 0.02 | 0.00 |
| 2.26 | 2.00 | 0.00 | 8.87 | 0.02 | 0.00 | 2.28 | 2.00 | 0.00 | 8.86 | 0.02 | 0.00 |
| 2.30 | 2.00 | 0.00 | 8.85 | 0.02 | 0.00 | 2.32 | 2.00 | 0.00 | 8.84 | 0.02 | 0.00 |
| 2.34 | 2.00 | 0.00 | 8.83 | 0.02 | 0.00 | 2.36 | 2.00 | 0.00 | 8.82 | 0.02 | 0.00 |
| 2.38 | 2.00 | 0.00 | 8.81 | 0.02 | 0.00 | 2.40 | 2.00 | 0.00 | 8.80 | 0.02 | 0.00 |
| 2.42 | 2.00 | 0.00 | 8.79 | 0.02 | 0.00 | 2.44 | 2.00 | 0.00 | 8.78 | 0.02 | 0.00 |
| 2.46 | 2.00 | 0.00 | 8.77 | 0.02 | 0.00 | 2.48 | 2.00 | 0.00 | 8.76 | 0.02 | 0.00 |
| 2.50 | 2.00 | 0.00 | 8.75 | 0.02 | 0.00 | 2.52 | 2.00 | 0.00 | 8.74 | 0.02 | 0.00 |
| 2.54 | 2.00 | 0.00 | 8.73 | 0.02 | 0.00 | 2.56 | 2.00 | 0.00 | 8.72 | 0.02 | 0.00 |
| 2.58 | 2.00 | 0.00 | 8.71 | 0.02 | 0.00 | 2.60 | 2.00 | 0.00 | 8.70 | 0.02 | 0.00 |
| 2.62 | 2.00 | 0.00 | 8.69 | 0.02 | 0.00 | 2.64 | 2.00 | 0.00 | 8.68 | 0.02 | 0.00 |
| 2.66 | 2.00 | 0.00 | 8.67 | 0.02 | 0.00 | 2.68 | 2.00 | 0.00 | 8.66 | 0.02 | 0.00 |
| 2.70 | 2.00 | 0.00 | 8.65 | 0.02 | 0.00 | 2.72 | 2.00 | 0.00 | 8.64 | 0.02 | 0.00 |
| 2.74 | 2.00 | 0.00 | 8.63 | 0.02 | 0.00 | 2.76 | 2.00 | 0.00 | 8.62 | 0.02 | 0.00 |
| 2.78 | 2.00 | 0.00 | 8.61 | 0.02 | 0.00 | 2.80 | 2.00 | 0.00 | 8.60 | 0.02 | 0.00 |
| 2.82 | 2.00 | 0.00 | 8.59 | 0.02 | 0.00 | 2.84 | 2.00 | 0.00 | 8.58 | 0.02 | 0.00 |
| 2.86 | 2.00 | 0.00 | 8.57 | 0.02 | 0.00 | 2.88 | 2.00 | 0.00 | 8.56 | 0.02 | 0.00 |
| 2.90 | 2.00 | 0.00 | 8.55 | 0.02 | 0.00 | 2.92 | 2.00 | 0.00 | 8.54 | 0.02 | 0.00 |
| 2.94 | 2.00 | 0.00 | 8.53 | 0.02 | 0.00 | 2.96 | 2.00 | 0.00 | 8.52 | 0.02 | 0.00 |
| 2.98 | 2.00 | 0.00 | 8.51 | 0.02 | 0.00 | 3.00 | 2.00 | 0.00 | 8.50 | 0.02 | 0.00 |
| 3.02 | 2.00 | 0.00 | 8.49 | 0.02 | 0.00 | 3.04 | 2.00 | 0.00 | 8.48 | 0.02 | 0.00 |
| 3.06 | 2.00 | 0.00 | 8.47 | 0.02 | 0.00 | 3.08 | 2.00 | 0.00 | 8.46 | 0.02 | 0.00 |
| 3.10 | 2.00 | 0.00 | 8.45 | 0.02 | 0.00 | 3.12 | 2.00 | 0.00 | 8.44 | 0.02 | 0.00 |
| 3.14 | 2.00 | 0.00 | 8.43 | 0.02 | 0.00 | 3.16 | 2.00 | 0.00 | 8.42 | 0.02 | 0.00 |
| 3.18 | 2.00 | 0.00 | 8.41 | 0.02 | 0.00 | 3.20 | 2.00 | 0.00 | 8.40 | 0.02 | 0.00 |
| 3.22 | 2.00 | 0.00 | 8.39 | 0.02 | 0.00 | 3.24 | 2.00 | 0.00 | 8.38 | 0.02 | 0.00 |
| 3.26 | 2.00 | 0.00 | 8.37 | 0.02 | 0.00 | 3.28 | 2.00 | 0.00 | 8.36 | 0.02 | 0.00 |
| 3.30 | 2.00 | 0.00 | 8.35 | 0.02 | 0.00 | 3.32 | 2.00 | 0.00 | 8.34 | 0.02 | 0.00 |
| 3.34 | 2.00 | 0.00 | 8.33 | 0.02 | 0.00 | 3.36 | 2.00 | 0.00 | 8.32 | 0.02 | 0.00 |
| 3.38 | 2.00 | 0.00 | 8.31 | 0.02 | 0.00 | 3.40 | 2.00 | 0.00 | 8.30 | 0.02 | 0.00 |
| 3.42 | 2.00 | 0.00 | 8.29 | 0.02 | 0.00 | 3.44 | 2.00 | 0.00 | 8.28 | 0.02 | 0.00 |
| 3.46 | 2.00 | 0.00 | 8.27 | 0.02 | 0.00 | 3.48 | 2.00 | 0.00 | 8.26 | 0.02 | 0.00 |
| 3.50 | 2.00 | 0.00 | 8.25 | 0.02 | 0.00 | 3.52 | 2.00 | 0.00 | 8.24 | 0.02 | 0.00 |
| 3.54 | 2.00 | 0.00 | 8.23 | 0.02 | 0.00 | 3.56 | 2.00 | 0.00 | 8.22 | 0.02 | 0.00 |
| 3.58 | 2.00 | 0.00 | 8.21 | 0.02 | 0.00 | 3.60 | 2.00 | 0.00 | 8.20 | 0.02 | 0.00 |
| 3.62 | 0.92 | 0.08 | 8.19 | 0.02 | 0.01 | 3.64 | 2.00 | 0.00 | 8.18 | 0.02 | 0.00 |
| 3.66 | 2.00 | 0.00 | 8.17 | 0.02 | 0.00 | 3.68 | 2.00 | 0.00 | 8.16 | 0.02 | 0.00 |
| 3.70 | 2.00 | 0.00 | 8.15 | 0.02 | 0.00 | 3.72 | 2.00 | 0.00 | 8.14 | 0.02 | 0.00 |
| 3.74 | 2.00 | 0.00 | 8.13 | 0.02 | 0.00 | 3.76 | 2.00 | 0.00 | 8.12 | 0.02 | 0.00 |
| 3.78 | 2.00 | 0.00 | 8.11 | 0.02 | 0.00 | 3.80 | 1.01 | 0.00 | 8.10 | 0.02 | 0.00 |
| 3.82 | 0.98 | 0.02 | 8.09 | 0.02 | 0.00 | 3.84 | 0.96 | 0.04 | 8.08 | 0.02 | 0.01 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 3.86 | 0.95 | 0.05 | 8.07 | 0.02 | 0.01 | 3.88 | 0.95 | 0.05 | 8.06 | 0.02 | 0.01 |
| 3.90 | 0.98 | 0.02 | 8.05 | 0.02 | 0.00 | 3.92 | 1.01 | 0.00 | 8.04 | 0.02 | 0.00 |
| 3.94 | 2.00 | 0.00 | 8.03 | 0.02 | 0.00 | 3.96 | 2.00 | 0.00 | 8.02 | 0.02 | 0.00 |
| 3.98 | 2.00 | 0.00 | 8.01 | 0.02 | 0.00 | 4.00 | 2.00 | 0.00 | 8.00 | 0.02 | 0.00 |
| 4.02 | 2.00 | 0.00 | 7.99 | 0.02 | 0.00 | 4.04 | 2.00 | 0.00 | 7.98 | 0.02 | 0.00 |
| 4.06 | 2.00 | 0.00 | 7.97 | 0.02 | 0.00 | 4.08 | 2.00 | 0.00 | 7.96 | 0.02 | 0.00 |
| 4.10 | 2.00 | 0.00 | 7.95 | 0.02 | 0.00 | 4.12 | 2.00 | 0.00 | 7.94 | 0.02 | 0.00 |
| 4.14 | 2.00 | 0.00 | 7.93 | 0.02 | 0.00 | 4.16 | 2.00 | 0.00 | 7.92 | 0.02 | 0.00 |
| 4.18 | 2.00 | 0.00 | 7.91 | 0.02 | 0.00 | 4.20 | 2.00 | 0.00 | 7.90 | 0.02 | 0.00 |
| 4.22 | 2.00 | 0.00 | 7.89 | 0.02 | 0.00 | 4.24 | 0.99 | 0.01 | 7.88 | 0.02 | 0.00 |
| 4.26 | 1.01 | 0.00 | 7.87 | 0.02 | 0.00 | 4.28 | 1.04 | 0.00 | 7.86 | 0.02 | 0.00 |
| 4.30 | 1.06 | 0.00 | 7.85 | 0.02 | 0.00 | 4.32 | 1.08 | 0.00 | 7.84 | 0.02 | 0.00 |
| 4.34 | 1.10 | 0.00 | 7.83 | 0.02 | 0.00 | 4.36 | 1.12 | 0.00 | 7.82 | 0.02 | 0.00 |
| 4.38 | 1.12 | 0.00 | 7.81 | 0.02 | 0.00 | 4.40 | 2.00 | 0.00 | 7.80 | 0.02 | 0.00 |
| 4.42 | 2.00 | 0.00 | 7.79 | 0.02 | 0.00 | 4.44 | 2.00 | 0.00 | 7.78 | 0.02 | 0.00 |
| 4.46 | 2.00 | 0.00 | 7.77 | 0.02 | 0.00 | 4.48 | 2.00 | 0.00 | 7.76 | 0.02 | 0.00 |
| 4.50 | 2.00 | 0.00 | 7.75 | 0.02 | 0.00 | 4.52 | 2.00 | 0.00 | 7.74 | 0.02 | 0.00 |
| 4.54 | 2.00 | 0.00 | 7.73 | 0.02 | 0.00 | 4.56 | 1.02 | 0.00 | 7.72 | 0.02 | 0.00 |
| 4.58 | 1.08 | 0.00 | 7.71 | 0.02 | 0.00 | 4.60 | 2.00 | 0.00 | 7.70 | 0.02 | 0.00 |
| 4.62 | 2.00 | 0.00 | 7.69 | 0.02 | 0.00 | 4.64 | 2.00 | 0.00 | 7.68 | 0.02 | 0.00 |
| 4.66 | 2.00 | 0.00 | 7.67 | 0.02 | 0.00 | 4.68 | 2.00 | 0.00 | 7.66 | 0.02 | 0.00 |
| 4.70 | 1.00 | 0.00 | 7.65 | 0.02 | 0.00 | 4.72 | 1.00 | 0.00 | 7.64 | 0.02 | 0.00 |
| 4.74 | 0.94 | 0.06 | 7.63 | 0.02 | 0.01 | 4.76 | 1.12 | 0.00 | 7.62 | 0.02 | 0.00 |
| 4.78 | 1.16 | 0.00 | 7.61 | 0.02 | 0.00 | 4.80 | 1.18 | 0.00 | 7.60 | 0.02 | 0.00 |
| 4.82 | 1.22 | 0.00 | 7.59 | 0.02 | 0.00 | 4.84 | 1.26 | 0.00 | 7.58 | 0.02 | 0.00 |
| 4.86 | 1.24 | 0.00 | 7.57 | 0.02 | 0.00 | 4.88 | 1.17 | 0.00 | 7.56 | 0.02 | 0.00 |
| 4.90 | 1.13 | 0.00 | 7.55 | 0.02 | 0.00 | 4.92 | 2.00 | 0.00 | 7.54 | 0.02 | 0.00 |
| 4.94 | 2.00 | 0.00 | 7.53 | 0.02 | 0.00 | 4.96 | 2.00 | 0.00 | 7.52 | 0.02 | 0.00 |
| 4.98 | 2.00 | 0.00 | 7.51 | 0.02 | 0.00 | 5.00 | 1.07 | 0.00 | 7.50 | 0.02 | 0.00 |
| 5.02 | 1.04 | 0.00 | 7.49 | 0.02 | 0.00 | 5.04 | 1.06 | 0.00 | 7.48 | 0.02 | 0.00 |
| 5.06 | 1.13 | 0.00 | 7.47 | 0.02 | 0.00 | 5.08 | 1.18 | 0.00 | 7.46 | 0.02 | 0.00 |
| 5.10 | 1.16 | 0.00 | 7.45 | 0.02 | 0.00 | 5.12 | 1.11 | 0.00 | 7.44 | 0.02 | 0.00 |
| 5.14 | 1.06 | 0.00 | 7.43 | 0.02 | 0.00 | 5.16 | 1.08 | 0.00 | 7.42 | 0.02 | 0.00 |
| 5.18 | 1.14 | 0.00 | 7.41 | 0.02 | 0.00 | 5.20 | 1.23 | 0.00 | 7.40 | 0.02 | 0.00 |
| 5.22 | 1.28 | 0.00 | 7.39 | 0.02 | 0.00 | 5.24 | 1.28 | 0.00 | 7.38 | 0.02 | 0.00 |
| 5.26 | 1.28 | 0.00 | 7.37 | 0.02 | 0.00 | 5.28 | 1.27 | 0.00 | 7.36 | 0.02 | 0.00 |
| 5.30 | 1.25 | 0.00 | 7.35 | 0.02 | 0.00 | 5.32 | 1.23 | 0.00 | 7.34 | 0.02 | 0.00 |
| 5.34 | 1.24 | 0.00 | 7.33 | 0.02 | 0.00 | 5.36 | 1.26 | 0.00 | 7.32 | 0.02 | 0.00 |
| 5.38 | 1.29 | 0.00 | 7.31 | 0.02 | 0.00 | 5.40 | 1.32 | 0.00 | 7.30 | 0.02 | 0.00 |
| 5.42 | 1.34 | 0.00 | 7.29 | 0.02 | 0.00 | 5.44 | 2.00 | 0.00 | 7.28 | 0.02 | 0.00 |
| 5.46 | 2.00 | 0.00 | 7.27 | 0.02 | 0.00 | 5.48 | 1.14 | 0.00 | 7.26 | 0.02 | 0.00 |
| 5.50 | 1.06 | 0.00 | 7.25 | 0.02 | 0.00 | 5.52 | 1.03 | 0.00 | 7.24 | 0.02 | 0.00 |
| 5.54 | 1.05 | 0.00 | 7.23 | 0.02 | 0.00 | 5.56 | 1.08 | 0.00 | 7.22 | 0.02 | 0.00 |
| 5.58 | 1.13 | 0.00 | 7.21 | 0.02 | 0.00 | 5.60 | 1.19 | 0.00 | 7.20 | 0.02 | 0.00 |
| 5.62 | 1.25 | 0.00 | 7.19 | 0.02 | 0.00 | 5.64 | 1.28 | 0.00 | 7.18 | 0.02 | 0.00 |
| 5.66 | 1.23 | 0.00 | 7.17 | 0.02 | 0.00 | 5.68 | 1.15 | 0.00 | 7.16 | 0.02 | 0.00 |
| 5.70 | 1.09 | 0.00 | 7.15 | 0.02 | 0.00 | 5.72 | 1.09 | 0.00 | 7.14 | 0.02 | 0.00 |
| 5.74 | 1.12 | 0.00 | 7.13 | 0.02 | 0.00 | 5.76 | 1.17 | 0.00 | 7.12 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 5.78 | 1.22 | 0.00 | 7.11 | 0.02 | 0.00 | 5.80 | 1.26 | 0.00 | 7.10 | 0.02 | 0.00 |
| 5.82 | 1.28 | 0.00 | 7.09 | 0.02 | 0.00 | 5.84 | 1.27 | 0.00 | 7.08 | 0.02 | 0.00 |
| 5.86 | 1.30 | 0.00 | 7.07 | 0.02 | 0.00 | 5.88 | 1.37 | 0.00 | 7.06 | 0.02 | 0.00 |
| 5.90 | 1.45 | 0.00 | 7.05 | 0.02 | 0.00 | 5.92 | 1.53 | 0.00 | 7.04 | 0.02 | 0.00 |
| 5.94 | 1.58 | 0.00 | 7.03 | 0.02 | 0.00 | 5.96 | 1.64 | 0.00 | 7.02 | 0.02 | 0.00 |
| 5.98 | 1.68 | 0.00 | 7.01 | 0.02 | 0.00 | 6.00 | 1.67 | 0.00 | 7.00 | 0.02 | 0.00 |
| 6.02 | 1.63 | 0.00 | 6.99 | 0.02 | 0.00 | 6.04 | 1.59 | 0.00 | 6.98 | 0.02 | 0.00 |
| 6.06 | 1.57 | 0.00 | 6.97 | 0.02 | 0.00 | 6.08 | 1.54 | 0.00 | 6.96 | 0.02 | 0.00 |
| 6.10 | 1.51 | 0.00 | 6.95 | 0.02 | 0.00 | 6.12 | 1.48 | 0.00 | 6.94 | 0.02 | 0.00 |
| 6.14 | 1.45 | 0.00 | 6.93 | 0.02 | 0.00 | 6.16 | 1.42 | 0.00 | 6.92 | 0.02 | 0.00 |
| 6.18 | 1.42 | 0.00 | 6.91 | 0.02 | 0.00 | 6.20 | 1.42 | 0.00 | 6.90 | 0.02 | 0.00 |
| 6.22 | 1.42 | 0.00 | 6.89 | 0.02 | 0.00 | 6.24 | 1.42 | 0.00 | 6.88 | 0.02 | 0.00 |
| 6.26 | 1.43 | 0.00 | 6.87 | 0.02 | 0.00 | 6.28 | 1.44 | 0.00 | 6.86 | 0.02 | 0.00 |
| 6.30 | 1.44 | 0.00 | 6.85 | 0.02 | 0.00 | 6.32 | 1.44 | 0.00 | 6.84 | 0.02 | 0.00 |
| 6.34 | 1.45 | 0.00 | 6.83 | 0.02 | 0.00 | 6.36 | 1.46 | 0.00 | 6.82 | 0.02 | 0.00 |
| 6.38 | 1.46 | 0.00 | 6.81 | 0.02 | 0.00 | 6.40 | 1.48 | 0.00 | 6.80 | 0.02 | 0.00 |
| 6.42 | 1.54 | 0.00 | 6.79 | 0.02 | 0.00 | 6.44 | 1.62 | 0.00 | 6.78 | 0.02 | 0.00 |
| 6.46 | 1.69 | 0.00 | 6.77 | 0.02 | 0.00 | 6.48 | 1.71 | 0.00 | 6.76 | 0.02 | 0.00 |
| 6.50 | 1.70 | 0.00 | 6.75 | 0.02 | 0.00 | 6.52 | 1.67 | 0.00 | 6.74 | 0.02 | 0.00 |
| 6.54 | 1.62 | 0.00 | 6.73 | 0.02 | 0.00 | 6.56 | 1.57 | 0.00 | 6.72 | 0.02 | 0.00 |
| 6.58 | 1.50 | 0.00 | 6.71 | 0.02 | 0.00 | 6.60 | 1.45 | 0.00 | 6.70 | 0.02 | 0.00 |
| 6.62 | 1.41 | 0.00 | 6.69 | 0.02 | 0.00 | 6.64 | 1.40 | 0.00 | 6.68 | 0.02 | 0.00 |
| 6.66 | 1.41 | 0.00 | 6.67 | 0.02 | 0.00 | 6.68 | 1.43 | 0.00 | 6.66 | 0.02 | 0.00 |
| 6.70 | 1.45 | 0.00 | 6.65 | 0.02 | 0.00 | 6.72 | 1.44 | 0.00 | 6.64 | 0.02 | 0.00 |
| 6.74 | 1.40 | 0.00 | 6.63 | 0.02 | 0.00 | 6.76 | 1.35 | 0.00 | 6.62 | 0.02 | 0.00 |
| 6.78 | 1.32 | 0.00 | 6.61 | 0.02 | 0.00 | 6.80 | 1.31 | 0.00 | 6.60 | 0.02 | 0.00 |
| 6.82 | 1.33 | 0.00 | 6.59 | 0.02 | 0.00 | 6.84 | 1.34 | 0.00 | 6.58 | 0.02 | 0.00 |
| 6.86 | 1.34 | 0.00 | 6.57 | 0.02 | 0.00 | 6.88 | 1.35 | 0.00 | 6.56 | 0.02 | 0.00 |
| 6.90 | 1.34 | 0.00 | 6.55 | 0.02 | 0.00 | 6.92 | 1.32 | 0.00 | 6.54 | 0.02 | 0.00 |
| 6.94 | 1.30 | 0.00 | 6.53 | 0.02 | 0.00 | 6.96 | 1.32 | 0.00 | 6.52 | 0.02 | 0.00 |
| 6.98 | 1.36 | 0.00 | 6.51 | 0.02 | 0.00 | 7.00 | 1.39 | 0.00 | 6.50 | 0.02 | 0.00 |
| 7.02 | 1.43 | 0.00 | 6.49 | 0.02 | 0.00 | 7.04 | 1.46 | 0.00 | 6.48 | 0.02 | 0.00 |
| 7.06 | 1.50 | 0.00 | 6.47 | 0.02 | 0.00 | 7.08 | 1.54 | 0.00 | 6.46 | 0.02 | 0.00 |
| 7.10 | 1.58 | 0.00 | 6.45 | 0.02 | 0.00 | 7.12 | 1.60 | 0.00 | 6.44 | 0.02 | 0.00 |
| 7.14 | 1.60 | 0.00 | 6.43 | 0.02 | 0.00 | 7.16 | 1.60 | 0.00 | 6.42 | 0.02 | 0.00 |
| 7.18 | 1.60 | 0.00 | 6.41 | 0.02 | 0.00 | 7.20 | 1.61 | 0.00 | 6.40 | 0.02 | 0.00 |
| 7.22 | 1.62 | 0.00 | 6.39 | 0.02 | 0.00 | 7.24 | 1.65 | 0.00 | 6.38 | 0.02 | 0.00 |
| 7.26 | 1.69 | 0.00 | 6.37 | 0.02 | 0.00 | 7.28 | 1.73 | 0.00 | 6.36 | 0.02 | 0.00 |
| 7.30 | 1.75 | 0.00 | 6.35 | 0.02 | 0.00 | 7.32 | 1.77 | 0.00 | 6.34 | 0.02 | 0.00 |
| 7.34 | 1.80 | 0.00 | 6.33 | 0.02 | 0.00 | 7.36 | 1.83 | 0.00 | 6.32 | 0.02 | 0.00 |
| 7.38 | 1.88 | 0.00 | 6.31 | 0.02 | 0.00 | 7.40 | 1.93 | 0.00 | 6.30 | 0.02 | 0.00 |
| 7.42 | 1.98 | 0.00 | 6.29 | 0.02 | 0.00 | 7.44 | 2.00 | 0.00 | 6.28 | 0.02 | 0.00 |
| 7.46 | 1.99 | 0.00 | 6.27 | 0.02 | 0.00 | 7.48 | 1.95 | 0.00 | 6.26 | 0.02 | 0.00 |
| 7.50 | 1.88 | 0.00 | 6.25 | 0.02 | 0.00 | 7.52 | 1.81 | 0.00 | 6.24 | 0.02 | 0.00 |
| 7.54 | 1.72 | 0.00 | 6.23 | 0.02 | 0.00 | 7.56 | 1.65 | 0.00 | 6.22 | 0.02 | 0.00 |
| 7.58 | 1.58 | 0.00 | 6.21 | 0.02 | 0.00 | 7.60 | 1.54 | 0.00 | 6.20 | 0.02 | 0.00 |
| 7.62 | 1.50 | 0.00 | 6.19 | 0.02 | 0.00 | 7.64 | 1.47 | 0.00 | 6.18 | 0.02 | 0.00 |
| 7.66 | 1.44 | 0.00 | 6.17 | 0.02 | 0.00 | 7.68 | 1.42 | 0.00 | 6.16 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 7.70 | 1.41 | 0.00 | 6.15 | 0.02 | 0.00 | 7.72 | 1.41 | 0.00 | 6.14 | 0.02 | 0.00 |
| 7.74 | 1.40 | 0.00 | 6.13 | 0.02 | 0.00 | 7.76 | 1.40 | 0.00 | 6.12 | 0.02 | 0.00 |
| 7.78 | 1.40 | 0.00 | 6.11 | 0.02 | 0.00 | 7.80 | 1.41 | 0.00 | 6.10 | 0.02 | 0.00 |
| 7.82 | 1.42 | 0.00 | 6.09 | 0.02 | 0.00 | 7.84 | 1.42 | 0.00 | 6.08 | 0.02 | 0.00 |
| 7.86 | 1.42 | 0.00 | 6.07 | 0.02 | 0.00 | 7.88 | 1.43 | 0.00 | 6.06 | 0.02 | 0.00 |
| 7.90 | 1.44 | 0.00 | 6.05 | 0.02 | 0.00 | 7.92 | 1.45 | 0.00 | 6.04 | 0.02 | 0.00 |
| 7.94 | 1.46 | 0.00 | 6.03 | 0.02 | 0.00 | 7.96 | 1.47 | 0.00 | 6.02 | 0.02 | 0.00 |
| 7.98 | 1.49 | 0.00 | 6.01 | 0.02 | 0.00 | 8.00 | 1.52 | 0.00 | 6.00 | 0.02 | 0.00 |
| 8.02 | 1.57 | 0.00 | 5.99 | 0.02 | 0.00 | 8.04 | 1.62 | 0.00 | 5.98 | 0.02 | 0.00 |
| 8.06 | 1.71 | 0.00 | 5.97 | 0.02 | 0.00 | 8.08 | 1.62 | 0.00 | 5.96 | 0.02 | 0.00 |
| 8.10 | 1.68 | 0.00 | 5.95 | 0.02 | 0.00 | 8.12 | 1.69 | 0.00 | 5.94 | 0.02 | 0.00 |
| 8.14 | 1.65 | 0.00 | 5.93 | 0.02 | 0.00 | 8.16 | 1.61 | 0.00 | 5.92 | 0.02 | 0.00 |
| 8.18 | 1.56 | 0.00 | 5.91 | 0.02 | 0.00 | 8.20 | 1.52 | 0.00 | 5.90 | 0.02 | 0.00 |
| 8.22 | 1.49 | 0.00 | 5.89 | 0.02 | 0.00 | 8.24 | 1.48 | 0.00 | 5.88 | 0.02 | 0.00 |
| 8.26 | 1.46 | 0.00 | 5.87 | 0.02 | 0.00 | 8.28 | 1.63 | 0.00 | 5.86 | 0.02 | 0.00 |
| 8.30 | 1.59 | 0.00 | 5.85 | 0.02 | 0.00 | 8.32 | 1.56 | 0.00 | 5.84 | 0.02 | 0.00 |
| 8.34 | 1.55 | 0.00 | 5.83 | 0.02 | 0.00 | 8.36 | 1.40 | 0.00 | 5.82 | 0.02 | 0.00 |
| 8.38 | 1.52 | 0.00 | 5.81 | 0.02 | 0.00 | 8.40 | 1.69 | 0.00 | 5.80 | 0.02 | 0.00 |
| 8.42 | 1.80 | 0.00 | 5.79 | 0.02 | 0.00 | 8.44 | 1.80 | 0.00 | 5.78 | 0.02 | 0.00 |
| 8.46 | 1.89 | 0.00 | 5.77 | 0.02 | 0.00 | 8.48 | 1.80 | 0.00 | 5.76 | 0.02 | 0.00 |
| 8.50 | 1.70 | 0.00 | 5.75 | 0.02 | 0.00 | 8.52 | 1.63 | 0.00 | 5.74 | 0.02 | 0.00 |
| 8.54 | 1.60 | 0.00 | 5.73 | 0.02 | 0.00 | 8.56 | 1.58 | 0.00 | 5.72 | 0.02 | 0.00 |
| 8.58 | 1.58 | 0.00 | 5.71 | 0.02 | 0.00 | 8.60 | 1.60 | 0.00 | 5.70 | 0.02 | 0.00 |
| 8.62 | 1.69 | 0.00 | 5.69 | 0.02 | 0.00 | 8.64 | 1.65 | 0.00 | 5.68 | 0.02 | 0.00 |
| 8.66 | 1.84 | 0.00 | 5.67 | 0.02 | 0.00 | 8.68 | 1.90 | 0.00 | 5.66 | 0.02 | 0.00 |
| 8.70 | 1.80 | 0.00 | 5.65 | 0.02 | 0.00 | 8.72 | 1.63 | 0.00 | 5.64 | 0.02 | 0.00 |
| 8.74 | 1.70 | 0.00 | 5.63 | 0.02 | 0.00 | 8.76 | 1.57 | 0.00 | 5.62 | 0.02 | 0.00 |
| 8.78 | 1.46 | 0.00 | 5.61 | 0.02 | 0.00 | 8.80 | 1.35 | 0.00 | 5.60 | 0.02 | 0.00 |
| 8.82 | 1.26 | 0.00 | 5.59 | 0.02 | 0.00 | 8.84 | 1.03 | 0.00 | 5.58 | 0.02 | 0.00 |
| 8.86 | 1.01 | 0.00 | 5.57 | 0.02 | 0.00 | 8.88 | 1.00 | 0.00 | 5.56 | 0.02 | 0.00 |
| 8.90 | 1.00 | 0.00 | 5.55 | 0.02 | 0.00 | 8.92 | 0.99 | 0.01 | 5.54 | 0.02 | 0.00 |
| 8.94 | 0.98 | 0.02 | 5.53 | 0.02 | 0.00 | 8.96 | 0.96 | 0.04 | 5.52 | 0.02 | 0.00 |
| 8.98 | 0.92 | 0.08 | 5.51 | 0.02 | 0.01 | 9.00 | 1.07 | 0.00 | 5.50 | 0.02 | 0.00 |
| 9.02 | 1.13 | 0.00 | 5.49 | 0.02 | 0.00 | 9.04 | 1.22 | 0.00 | 5.48 | 0.02 | 0.00 |
| 9.06 | 1.30 | 0.00 | 5.47 | 0.02 | 0.00 | 9.08 | 2.00 | 0.00 | 5.46 | 0.02 | 0.00 |
| 9.10 | 2.00 | 0.00 | 5.45 | 0.02 | 0.00 | 9.12 | 2.00 | 0.00 | 5.44 | 0.02 | 0.00 |
| 9.14 | 2.00 | 0.00 | 5.43 | 0.02 | 0.00 | 9.16 | 2.00 | 0.00 | 5.42 | 0.02 | 0.00 |
| 9.18 | 2.00 | 0.00 | 5.41 | 0.02 | 0.00 | 9.20 | 2.00 | 0.00 | 5.40 | 0.02 | 0.00 |
| 9.22 | 2.00 | 0.00 | 5.39 | 0.02 | 0.00 | 9.24 | 2.00 | 0.00 | 5.38 | 0.02 | 0.00 |
| 9.26 | 2.00 | 0.00 | 5.37 | 0.02 | 0.00 | 9.28 | 2.00 | 0.00 | 5.36 | 0.02 | 0.00 |
| 9.30 | 2.00 | 0.00 | 5.35 | 0.02 | 0.00 | 9.32 | 2.00 | 0.00 | 5.34 | 0.02 | 0.00 |
| 9.34 | 2.00 | 0.00 | 5.33 | 0.02 | 0.00 | 9.36 | 2.00 | 0.00 | 5.32 | 0.02 | 0.00 |
| 9.38 | 2.00 | 0.00 | 5.31 | 0.02 | 0.00 | 9.40 | 2.00 | 0.00 | 5.30 | 0.02 | 0.00 |
| 9.42 | 2.00 | 0.00 | 5.29 | 0.02 | 0.00 | 9.44 | 2.00 | 0.00 | 5.28 | 0.02 | 0.00 |
| 9.46 | 2.00 | 0.00 | 5.27 | 0.02 | 0.00 | 9.48 | 2.00 | 0.00 | 5.26 | 0.02 | 0.00 |
| 9.50 | 2.00 | 0.00 | 5.25 | 0.02 | 0.00 | 9.52 | 2.00 | 0.00 | 5.24 | 0.02 | 0.00 |
| 9.54 | 2.00 | 0.00 | 5.23 | 0.02 | 0.00 | 9.56 | 2.00 | 0.00 | 5.22 | 0.02 | 0.00 |
| 9.58 | 2.00 | 0.00 | 5.21 | 0.02 | 0.00 | 9.60 | 2.00 | 0.00 | 5.20 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 9.62 | 2.00 | 0.00 | 5.19 | 0.02 | 0.00 | 9.64 | 2.00 | 0.00 | 5.18 | 0.02 | 0.00 |
| 9.66 | 2.00 | 0.00 | 5.17 | 0.02 | 0.00 | 9.68 | 2.00 | 0.00 | 5.16 | 0.02 | 0.00 |
| 9.70 | 2.00 | 0.00 | 5.15 | 0.02 | 0.00 | 9.72 | 2.00 | 0.00 | 5.14 | 0.02 | 0.00 |
| 9.74 | 2.00 | 0.00 | 5.13 | 0.02 | 0.00 | 9.76 | 2.00 | 0.00 | 5.12 | 0.02 | 0.00 |
| 9.78 | 2.00 | 0.00 | 5.11 | 0.02 | 0.00 | 9.80 | 2.00 | 0.00 | 5.10 | 0.02 | 0.00 |
| 9.82 | 2.00 | 0.00 | 5.09 | 0.02 | 0.00 | 9.84 | 2.00 | 0.00 | 5.08 | 0.02 | 0.00 |
| 9.86 | 2.00 | 0.00 | 5.07 | 0.02 | 0.00 | 9.88 | 2.00 | 0.00 | 5.06 | 0.02 | 0.00 |
| 9.90 | 2.00 | 0.00 | 5.05 | 0.02 | 0.00 | 9.92 | 2.00 | 0.00 | 5.04 | 0.02 | 0.00 |
| 9.94 | 2.00 | 0.00 | 5.03 | 0.02 | 0.00 | 9.96 | 2.00 | 0.00 | 5.02 | 0.02 | 0.00 |
| 9.98 | 2.00 | 0.00 | 5.01 | 0.02 | 0.00 | 10.00 | 2.00 | 0.00 | 5.00 | 0.02 | 0.00 |
| 10.02 | 2.00 | 0.00 | 4.99 | 0.02 | 0.00 | 10.04 | 2.00 | 0.00 | 4.98 | 0.02 | 0.00 |
| 10.06 | 2.00 | 0.00 | 4.97 | 0.02 | 0.00 | 10.08 | 2.00 | 0.00 | 4.96 | 0.02 | 0.00 |
| 10.10 | 2.00 | 0.00 | 4.95 | 0.02 | 0.00 | 10.12 | 2.00 | 0.00 | 4.94 | 0.02 | 0.00 |
| 10.14 | 1.14 | 0.00 | 4.93 | 0.02 | 0.00 | 10.16 | 1.21 | 0.00 | 4.92 | 0.02 | 0.00 |
| 10.18 | 1.27 | 0.00 | 4.91 | 0.02 | 0.00 | 10.20 | 1.29 | 0.00 | 4.90 | 0.02 | 0.00 |
| 10.22 | 1.30 | 0.00 | 4.89 | 0.02 | 0.00 | 10.24 | 1.32 | 0.00 | 4.88 | 0.02 | 0.00 |
| 10.26 | 1.31 | 0.00 | 4.87 | 0.02 | 0.00 | 10.28 | 1.26 | 0.00 | 4.86 | 0.02 | 0.00 |
| 10.30 | 1.21 | 0.00 | 4.85 | 0.02 | 0.00 | 10.32 | 1.18 | 0.00 | 4.84 | 0.02 | 0.00 |
| 10.34 | 1.16 | 0.00 | 4.83 | 0.02 | 0.00 | 10.36 | 1.17 | 0.00 | 4.82 | 0.02 | 0.00 |
| 10.38 | 1.24 | 0.00 | 4.81 | 0.02 | 0.00 | 10.40 | 1.30 | 0.00 | 4.80 | 0.02 | 0.00 |
| 10.42 | 1.33 | 0.00 | 4.79 | 0.02 | 0.00 | 10.44 | 1.32 | 0.00 | 4.78 | 0.02 | 0.00 |
| 10.46 | 1.34 | 0.00 | 4.77 | 0.02 | 0.00 | 10.48 | 1.38 | 0.00 | 4.76 | 0.02 | 0.00 |
| 10.50 | 1.47 | 0.00 | 4.75 | 0.02 | 0.00 | 10.52 | 1.53 | 0.00 | 4.74 | 0.02 | 0.00 |
| 10.54 | 1.51 | 0.00 | 4.73 | 0.02 | 0.00 | 10.56 | 1.41 | 0.00 | 4.72 | 0.02 | 0.00 |
| 10.58 | 1.34 | 0.00 | 4.71 | 0.02 | 0.00 | 10.60 | 1.31 | 0.00 | 4.70 | 0.02 | 0.00 |
| 10.62 | 1.31 | 0.00 | 4.69 | 0.02 | 0.00 | 10.64 | 1.34 | 0.00 | 4.68 | 0.02 | 0.00 |
| 10.66 | 1.37 | 0.00 | 4.67 | 0.02 | 0.00 | 10.68 | 1.41 | 0.00 | 4.66 | 0.02 | 0.00 |
| 10.70 | 1.47 | 0.00 | 4.65 | 0.02 | 0.00 | 10.72 | 1.55 | 0.00 | 4.64 | 0.02 | 0.00 |
| 10.74 | 1.62 | 0.00 | 4.63 | 0.02 | 0.00 | 10.76 | 1.72 | 0.00 | 4.62 | 0.02 | 0.00 |
| 10.78 | 2.00 | 0.00 | 4.61 | 0.02 | 0.00 | 10.80 | 2.00 | 0.00 | 4.60 | 0.02 | 0.00 |
| 10.82 | 2.00 | 0.00 | 4.59 | 0.02 | 0.00 | 10.84 | 2.00 | 0.00 | 4.58 | 0.02 | 0.00 |
| 10.86 | 2.00 | 0.00 | 4.57 | 0.02 | 0.00 | 10.88 | 2.00 | 0.00 | 4.56 | 0.02 | 0.00 |
| 10.90 | 1.29 | 0.00 | 4.55 | 0.02 | 0.00 | 10.92 | 1.26 | 0.00 | 4.54 | 0.02 | 0.00 |
| 10.94 | 1.26 | 0.00 | 4.53 | 0.02 | 0.00 | 10.96 | 1.30 | 0.00 | 4.52 | 0.02 | 0.00 |
| 10.98 | 1.31 | 0.00 | 4.51 | 0.02 | 0.00 | 11.00 | 1.27 | 0.00 | 4.50 | 0.02 | 0.00 |
| 11.02 | 1.25 | 0.00 | 4.49 | 0.02 | 0.00 | 11.04 | 1.29 | 0.00 | 4.48 | 0.02 | 0.00 |
| 11.06 | 1.37 | 0.00 | 4.47 | 0.02 | 0.00 | 11.08 | 1.45 | 0.00 | 4.46 | 0.02 | 0.00 |
| 11.10 | 1.52 | 0.00 | 4.45 | 0.02 | 0.00 | 11.12 | 2.00 | 0.00 | 4.44 | 0.02 | 0.00 |
| 11.14 | 2.00 | 0.00 | 4.43 | 0.02 | 0.00 | 11.16 | 2.00 | 0.00 | 4.42 | 0.02 | 0.00 |
| 11.18 | 2.00 | 0.00 | 4.41 | 0.02 | 0.00 | 11.20 | 2.00 | 0.00 | 4.40 | 0.02 | 0.00 |
| 11.22 | 2.00 | 0.00 | 4.39 | 0.02 | 0.00 | 11.24 | 2.00 | 0.00 | 4.38 | 0.02 | 0.00 |
| 11.26 | 2.00 | 0.00 | 4.37 | 0.02 | 0.00 | 11.28 | 2.00 | 0.00 | 4.36 | 0.02 | 0.00 |
| 11.30 | 2.00 | 0.00 | 4.35 | 0.02 | 0.00 | 11.32 | 2.00 | 0.00 | 4.34 | 0.02 | 0.00 |
| 11.34 | 2.00 | 0.00 | 4.33 | 0.02 | 0.00 | 11.36 | 2.00 | 0.00 | 4.32 | 0.02 | 0.00 |
| 11.38 | 2.00 | 0.00 | 4.31 | 0.02 | 0.00 | 11.40 | 2.00 | 0.00 | 4.30 | 0.02 | 0.00 |
| 11.42 | 2.00 | 0.00 | 4.29 | 0.02 | 0.00 | 11.44 | 2.00 | 0.00 | 4.28 | 0.02 | 0.00 |
| 11.46 | 2.00 | 0.00 | 4.27 | 0.02 | 0.00 | 11.48 | 2.00 | 0.00 | 4.26 | 0.02 | 0.00 |
| 11.50 | 2.00 | 0.00 | 4.25 | 0.02 | 0.00 | 11.52 | 2.00 | 0.00 | 4.24 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 11.54 | 2.00 | 0.00 | 4.23 | 0.02 | 0.00 | 11.56 | 2.00 | 0.00 | 4.22 | 0.02 | 0.00 |
| 11.58 | 2.00 | 0.00 | 4.21 | 0.02 | 0.00 | 11.60 | 2.00 | 0.00 | 4.20 | 0.02 | 0.00 |
| 11.62 | 2.00 | 0.00 | 4.19 | 0.02 | 0.00 | 11.64 | 2.00 | 0.00 | 4.18 | 0.02 | 0.00 |
| 11.66 | 2.00 | 0.00 | 4.17 | 0.02 | 0.00 | 11.68 | 2.00 | 0.00 | 4.16 | 0.02 | 0.00 |
| 11.70 | 2.00 | 0.00 | 4.15 | 0.02 | 0.00 | 11.72 | 2.00 | 0.00 | 4.14 | 0.02 | 0.00 |
| 11.74 | 2.00 | 0.00 | 4.13 | 0.02 | 0.00 | 11.76 | 2.00 | 0.00 | 4.12 | 0.02 | 0.00 |
| 11.78 | 2.00 | 0.00 | 4.11 | 0.02 | 0.00 | 11.80 | 2.00 | 0.00 | 4.10 | 0.02 | 0.00 |
| 11.82 | 2.00 | 0.00 | 4.09 | 0.02 | 0.00 | 11.84 | 2.00 | 0.00 | 4.08 | 0.02 | 0.00 |
| 11.86 | 2.00 | 0.00 | 4.07 | 0.02 | 0.00 | 11.88 | 2.00 | 0.00 | 4.06 | 0.02 | 0.00 |
| 11.90 | 2.00 | 0.00 | 4.05 | 0.02 | 0.00 | 11.92 | 2.00 | 0.00 | 4.04 | 0.02 | 0.00 |
| 11.94 | 1.24 | 0.00 | 4.03 | 0.02 | 0.00 | 11.96 | 1.29 | 0.00 | 4.02 | 0.02 | 0.00 |
| 11.98 | 2.00 | 0.00 | 4.01 | 0.02 | 0.00 | 12.00 | 2.00 | 0.00 | 4.00 | 0.02 | 0.00 |
| 12.02 | 2.00 | 0.00 | 3.99 | 0.02 | 0.00 | 12.04 | 2.00 | 0.00 | 3.98 | 0.02 | 0.00 |
| 12.06 | 2.00 | 0.00 | 3.97 | 0.02 | 0.00 | 12.08 | 2.00 | 0.00 | 3.96 | 0.02 | 0.00 |
| 12.10 | 2.00 | 0.00 | 3.95 | 0.02 | 0.00 | 12.12 | 2.00 | 0.00 | 3.94 | 0.02 | 0.00 |
| 12.14 | 2.00 | 0.00 | 3.93 | 0.02 | 0.00 | 12.16 | 2.00 | 0.00 | 3.92 | 0.02 | 0.00 |
| 12.18 | 2.00 | 0.00 | 3.91 | 0.02 | 0.00 | 12.20 | 2.00 | 0.00 | 3.90 | 0.02 | 0.00 |
| 12.22 | 2.00 | 0.00 | 3.89 | 0.02 | 0.00 | 12.24 | 2.00 | 0.00 | 3.88 | 0.02 | 0.00 |
| 12.26 | 2.00 | 0.00 | 3.87 | 0.02 | 0.00 | 12.28 | 2.00 | 0.00 | 3.86 | 0.02 | 0.00 |
| 12.30 | 2.00 | 0.00 | 3.85 | 0.02 | 0.00 | 12.32 | 2.00 | 0.00 | 3.84 | 0.02 | 0.00 |
| 12.34 | 2.00 | 0.00 | 3.83 | 0.02 | 0.00 | 12.36 | 2.00 | 0.00 | 3.82 | 0.02 | 0.00 |
| 12.38 | 2.00 | 0.00 | 3.81 | 0.02 | 0.00 | 12.40 | 2.00 | 0.00 | 3.80 | 0.02 | 0.00 |
| 12.42 | 2.00 | 0.00 | 3.79 | 0.02 | 0.00 | 12.44 | 2.00 | 0.00 | 3.78 | 0.02 | 0.00 |
| 12.46 | 2.00 | 0.00 | 3.77 | 0.02 | 0.00 | 12.48 | 2.00 | 0.00 | 3.76 | 0.02 | 0.00 |
| 12.50 | 2.00 | 0.00 | 3.75 | 0.02 | 0.00 | 12.52 | 2.00 | 0.00 | 3.74 | 0.02 | 0.00 |
| 12.54 | 2.00 | 0.00 | 3.73 | 0.02 | 0.00 | 12.56 | 2.00 | 0.00 | 3.72 | 0.02 | 0.00 |
| 12.58 | 2.00 | 0.00 | 3.71 | 0.02 | 0.00 | 12.60 | 2.00 | 0.00 | 3.70 | 0.02 | 0.00 |
| 12.62 | 2.00 | 0.00 | 3.69 | 0.02 | 0.00 | 12.64 | 2.00 | 0.00 | 3.68 | 0.02 | 0.00 |
| 12.66 | 2.00 | 0.00 | 3.67 | 0.02 | 0.00 | 12.68 | 2.00 | 0.00 | 3.66 | 0.02 | 0.00 |
| 12.70 | 2.00 | 0.00 | 3.65 | 0.02 | 0.00 | 12.72 | 2.00 | 0.00 | 3.64 | 0.02 | 0.00 |
| 12.74 | 2.00 | 0.00 | 3.63 | 0.02 | 0.00 | 12.76 | 2.00 | 0.00 | 3.62 | 0.02 | 0.00 |
| 12.78 | 2.00 | 0.00 | 3.61 | 0.02 | 0.00 | 12.80 | 2.00 | 0.00 | 3.60 | 0.02 | 0.00 |
| 12.82 | 2.00 | 0.00 | 3.59 | 0.02 | 0.00 | 12.84 | 2.00 | 0.00 | 3.58 | 0.02 | 0.00 |
| 12.86 | 2.00 | 0.00 | 3.57 | 0.02 | 0.00 | 12.88 | 2.00 | 0.00 | 3.56 | 0.02 | 0.00 |
| 12.90 | 2.00 | 0.00 | 3.55 | 0.02 | 0.00 | 12.92 | 2.00 | 0.00 | 3.54 | 0.02 | 0.00 |
| 12.94 | 2.00 | 0.00 | 3.53 | 0.02 | 0.00 | 12.96 | 2.00 | 0.00 | 3.52 | 0.02 | 0.00 |
| 12.98 | 2.00 | 0.00 | 3.51 | 0.02 | 0.00 | 13.00 | 2.00 | 0.00 | 3.50 | 0.02 | 0.00 |
| 13.02 | 2.00 | 0.00 | 3.49 | 0.02 | 0.00 | 13.04 | 2.00 | 0.00 | 3.48 | 0.02 | 0.00 |
| 13.06 | 2.00 | 0.00 | 3.47 | 0.02 | 0.00 | 13.08 | 1.23 | 0.00 | 3.46 | 0.02 | 0.00 |
| 13.10 | 1.28 | 0.00 | 3.45 | 0.02 | 0.00 | 13.12 | 1.32 | 0.00 | 3.44 | 0.02 | 0.00 |
| 13.14 | 1.33 | 0.00 | 3.43 | 0.02 | 0.00 | 13.16 | 1.33 | 0.00 | 3.42 | 0.02 | 0.00 |
| 13.18 | 1.31 | 0.00 | 3.41 | 0.02 | 0.00 | 13.20 | 1.31 | 0.00 | 3.40 | 0.02 | 0.00 |
| 13.22 | 1.36 | 0.00 | 3.39 | 0.02 | 0.00 | 13.24 | 1.48 | 0.00 | 3.38 | 0.02 | 0.00 |
| 13.26 | 1.65 | 0.00 | 3.37 | 0.02 | 0.00 | 13.28 | 1.76 | 0.00 | 3.36 | 0.02 | 0.00 |
| 13.30 | 1.78 | 0.00 | 3.35 | 0.02 | 0.00 | 13.32 | 1.76 | 0.00 | 3.34 | 0.02 | 0.00 |
| 13.34 | 1.72 | 0.00 | 3.33 | 0.02 | 0.00 | 13.36 | 1.70 | 0.00 | 3.32 | 0.02 | 0.00 |
| 13.38 | 1.74 | 0.00 | 3.31 | 0.02 | 0.00 | 13.40 | 1.87 | 0.00 | 3.30 | 0.02 | 0.00 |
| 13.42 | 1.97 | 0.00 | 3.29 | 0.02 | 0.00 | 13.44 | 1.96 | 0.00 | 3.28 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 13.46 | 1.84 | 0.00 | 3.27 | 0.02 | 0.00 | 13.48 | 2.00 | 0.00 | 3.26 | 0.02 | 0.00 |
| 13.50 | 1.55 | 0.00 | 3.25 | 0.02 | 0.00 | 13.52 | 1.41 | 0.00 | 3.24 | 0.02 | 0.00 |
| 13.54 | 1.51 | 0.00 | 3.23 | 0.02 | 0.00 | 13.56 | 1.77 | 0.00 | 3.22 | 0.02 | 0.00 |
| 13.58 | 1.94 | 0.00 | 3.21 | 0.02 | 0.00 | 13.60 | 1.93 | 0.00 | 3.20 | 0.02 | 0.00 |
| 13.62 | 1.85 | 0.00 | 3.19 | 0.02 | 0.00 | 13.64 | 1.75 | 0.00 | 3.18 | 0.02 | 0.00 |
| 13.66 | 1.66 | 0.00 | 3.17 | 0.02 | 0.00 | 13.68 | 1.59 | 0.00 | 3.16 | 0.02 | 0.00 |
| 13.70 | 1.52 | 0.00 | 3.15 | 0.02 | 0.00 | 13.72 | 1.48 | 0.00 | 3.14 | 0.02 | 0.00 |
| 13.74 | 1.45 | 0.00 | 3.13 | 0.02 | 0.00 | 13.76 | 1.43 | 0.00 | 3.12 | 0.02 | 0.00 |
| 13.78 | 1.42 | 0.00 | 3.11 | 0.02 | 0.00 | 13.80 | 1.41 | 0.00 | 3.10 | 0.02 | 0.00 |
| 13.82 | 1.43 | 0.00 | 3.09 | 0.02 | 0.00 | 13.84 | 1.48 | 0.00 | 3.08 | 0.02 | 0.00 |
| 13.86 | 1.51 | 0.00 | 3.07 | 0.02 | 0.00 | 13.88 | 1.58 | 0.00 | 3.06 | 0.02 | 0.00 |
| 13.90 | 1.56 | 0.00 | 3.05 | 0.02 | 0.00 | 13.92 | 1.56 | 0.00 | 3.04 | 0.02 | 0.00 |
| 13.94 | 1.51 | 0.00 | 3.03 | 0.02 | 0.00 | 13.96 | 1.55 | 0.00 | 3.02 | 0.02 | 0.00 |
| 13.98 | 1.57 | 0.00 | 3.01 | 0.02 | 0.00 | 14.00 | 1.58 | 0.00 | 3.00 | 0.02 | 0.00 |
| 14.02 | 1.56 | 0.00 | 2.99 | 0.02 | 0.00 | 14.04 | 1.54 | 0.00 | 2.98 | 0.02 | 0.00 |
| 14.06 | 1.54 | 0.00 | 2.97 | 0.02 | 0.00 | 14.08 | 1.56 | 0.00 | 2.96 | 0.02 | 0.00 |
| 14.10 | 1.64 | 0.00 | 2.95 | 0.02 | 0.00 | 14.12 | 1.77 | 0.00 | 2.94 | 0.02 | 0.00 |
| 14.14 | 1.88 | 0.00 | 2.93 | 0.02 | 0.00 | 14.16 | 1.85 | 0.00 | 2.92 | 0.02 | 0.00 |
| 14.18 | 1.75 | 0.00 | 2.91 | 0.02 | 0.00 | 14.20 | 1.62 | 0.00 | 2.90 | 0.02 | 0.00 |
| 14.22 | 1.54 | 0.00 | 2.89 | 0.02 | 0.00 | 14.24 | 1.55 | 0.00 | 2.88 | 0.02 | 0.00 |
| 14.26 | 1.71 | 0.00 | 2.87 | 0.02 | 0.00 | 14.28 | 1.96 | 0.00 | 2.86 | 0.02 | 0.00 |
| 14.30 | 2.00 | 0.00 | 2.85 | 0.02 | 0.00 | 14.32 | 2.00 | 0.00 | 2.84 | 0.02 | 0.00 |
| 14.34 | 2.00 | 0.00 | 2.83 | 0.02 | 0.00 | 14.36 | 1.95 | 0.00 | 2.82 | 0.02 | 0.00 |
| 14.38 | 1.90 | 0.00 | 2.81 | 0.02 | 0.00 | 14.40 | 1.87 | 0.00 | 2.80 | 0.02 | 0.00 |
| 14.42 | 1.84 | 0.00 | 2.79 | 0.02 | 0.00 | 14.44 | 1.82 | 0.00 | 2.78 | 0.02 | 0.00 |
| 14.46 | 1.83 | 0.00 | 2.77 | 0.02 | 0.00 | 14.48 | 1.90 | 0.00 | 2.76 | 0.02 | 0.00 |
| 14.50 | 2.00 | 0.00 | 2.75 | 0.02 | 0.00 | 14.52 | 2.00 | 0.00 | 2.74 | 0.02 | 0.00 |
| 14.54 | 1.95 | 0.00 | 2.73 | 0.02 | 0.00 | 14.56 | 1.83 | 0.00 | 2.72 | 0.02 | 0.00 |
| 14.58 | 1.72 | 0.00 | 2.71 | 0.02 | 0.00 | 14.60 | 1.62 | 0.00 | 2.70 | 0.02 | 0.00 |
| 14.62 | 1.54 | 0.00 | 2.69 | 0.02 | 0.00 | 14.64 | 1.48 | 0.00 | 2.68 | 0.02 | 0.00 |
| 14.66 | 1.45 | 0.00 | 2.67 | 0.02 | 0.00 | 14.68 | 1.44 | 0.00 | 2.66 | 0.02 | 0.00 |
| 14.70 | 1.42 | 0.00 | 2.65 | 0.02 | 0.00 | 14.72 | 1.38 | 0.00 | 2.64 | 0.02 | 0.00 |
| 14.74 | 1.38 | 0.00 | 2.63 | 0.02 | 0.00 | 14.76 | 1.44 | 0.00 | 2.62 | 0.02 | 0.00 |
| 14.78 | 1.51 | 0.00 | 2.61 | 0.02 | 0.00 | 14.80 | 1.55 | 0.00 | 2.60 | 0.02 | 0.00 |
| 14.82 | 1.54 | 0.00 | 2.59 | 0.02 | 0.00 | 14.84 | 1.50 | 0.00 | 2.58 | 0.02 | 0.00 |
| 14.86 | 1.45 | 0.00 | 2.57 | 0.02 | 0.00 | 14.88 | 1.45 | 0.00 | 2.56 | 0.02 | 0.00 |
| 14.90 | 1.59 | 0.00 | 2.55 | 0.02 | 0.00 | 14.92 | 1.85 | 0.00 | 2.54 | 0.02 | 0.00 |
| 14.94 | 2.00 | 0.00 | 2.53 | 0.02 | 0.00 | 14.96 | 2.00 | 0.00 | 2.52 | 0.02 | 0.00 |
| 14.98 | 2.00 | 0.00 | 2.51 | 0.02 | 0.00 | 15.00 | 2.00 | 0.00 | 2.50 | 0.02 | 0.00 |
| 15.02 | 2.00 | 0.00 | 2.49 | 0.02 | 0.00 | 15.04 | 2.00 | 0.00 | 2.48 | 0.02 | 0.00 |
| 15.06 | 2.00 | 0.00 | 2.47 | 0.02 | 0.00 | 15.08 | 2.00 | 0.00 | 2.46 | 0.02 | 0.00 |
| 15.10 | 2.00 | 0.00 | 2.45 | 0.02 | 0.00 | 15.12 | 2.00 | 0.00 | 2.44 | 0.02 | 0.00 |
| 15.14 | 2.00 | 0.00 | 2.43 | 0.02 | 0.00 | 15.16 | 2.00 | 0.00 | 2.42 | 0.02 | 0.00 |
| 15.18 | 2.00 | 0.00 | 2.41 | 0.02 | 0.00 | 15.20 | 2.00 | 0.00 | 2.40 | 0.02 | 0.00 |
| 15.22 | 2.00 | 0.00 | 2.39 | 0.02 | 0.00 | 15.24 | 2.00 | 0.00 | 2.38 | 0.02 | 0.00 |
| 15.26 | 2.00 | 0.00 | 2.37 | 0.02 | 0.00 | 15.28 | 2.00 | 0.00 | 2.36 | 0.02 | 0.00 |
| 15.30 | 1.78 | 0.00 | 2.35 | 0.02 | 0.00 | 15.32 | 1.57 | 0.00 | 2.34 | 0.02 | 0.00 |
| 15.34 | 1.51 | 0.00 | 2.33 | 0.02 | 0.00 | 15.36 | 1.64 | 0.00 | 2.32 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 15.38 | 1.83 | 0.00 | 2.31 | 0.02 | 0.00 | 15.40 | 1.94 | 0.00 | 2.30 | 0.02 | 0.00 |
| 15.42 | 1.98 | 0.00 | 2.29 | 0.02 | 0.00 | 15.44 | 1.99 | 0.00 | 2.28 | 0.02 | 0.00 |
| 15.46 | 2.00 | 0.00 | 2.27 | 0.02 | 0.00 | 15.48 | 2.00 | 0.00 | 2.26 | 0.02 | 0.00 |
| 15.50 | 2.00 | 0.00 | 2.25 | 0.02 | 0.00 | 15.52 | 2.00 | 0.00 | 2.24 | 0.02 | 0.00 |
| 15.54 | 2.00 | 0.00 | 2.23 | 0.02 | 0.00 | 15.56 | 1.97 | 0.00 | 2.22 | 0.02 | 0.00 |
| 15.58 | 1.84 | 0.00 | 2.21 | 0.02 | 0.00 | 15.60 | 1.78 | 0.00 | 2.20 | 0.02 | 0.00 |
| 15.62 | 1.75 | 0.00 | 2.19 | 0.02 | 0.00 | 15.64 | 1.73 | 0.00 | 2.18 | 0.02 | 0.00 |
| 15.66 | 1.68 | 0.00 | 2.17 | 0.02 | 0.00 | 15.68 | 1.59 | 0.00 | 2.16 | 0.02 | 0.00 |
| 15.70 | 1.50 | 0.00 | 2.15 | 0.02 | 0.00 | 15.72 | 1.42 | 0.00 | 2.14 | 0.02 | 0.00 |
| 15.74 | 1.38 | 0.00 | 2.13 | 0.02 | 0.00 | 15.76 | 1.33 | 0.00 | 2.12 | 0.02 | 0.00 |
| 15.78 | 1.29 | 0.00 | 2.11 | 0.02 | 0.00 | 15.80 | 1.24 | 0.00 | 2.10 | 0.02 | 0.00 |
| 15.82 | 1.21 | 0.00 | 2.09 | 0.02 | 0.00 | 15.84 | 1.20 | 0.00 | 2.08 | 0.02 | 0.00 |
| 15.86 | 1.20 | 0.00 | 2.07 | 0.02 | 0.00 | 15.88 | 1.20 | 0.00 | 2.06 | 0.02 | 0.00 |
| 15.90 | 1.22 | 0.00 | 2.05 | 0.02 | 0.00 | 15.92 | 1.21 | 0.00 | 2.04 | 0.02 | 0.00 |
| 15.94 | 1.22 | 0.00 | 2.03 | 0.02 | 0.00 | 15.96 | 1.27 | 0.00 | 2.02 | 0.02 | 0.00 |
| 15.98 | 1.33 | 0.00 | 2.01 | 0.02 | 0.00 | 16.00 | 1.34 | 0.00 | 2.00 | 0.02 | 0.00 |
| 16.02 | 1.30 | 0.00 | 1.99 | 0.02 | 0.00 | 16.04 | 1.29 | 0.00 | 1.98 | 0.02 | 0.00 |
| 16.06 | 1.31 | 0.00 | 1.97 | 0.02 | 0.00 | 16.08 | 1.34 | 0.00 | 1.96 | 0.02 | 0.00 |
| 16.10 | 1.38 | 0.00 | 1.95 | 0.02 | 0.00 | 16.12 | 2.00 | 0.00 | 1.94 | 0.02 | 0.00 |
| 16.14 | 2.00 | 0.00 | 1.93 | 0.02 | 0.00 | 16.16 | 2.00 | 0.00 | 1.92 | 0.02 | 0.00 |
| 16.18 | 2.00 | 0.00 | 1.91 | 0.02 | 0.00 | 16.20 | 2.00 | 0.00 | 1.90 | 0.02 | 0.00 |
| 16.22 | 2.00 | 0.00 | 1.89 | 0.02 | 0.00 | 16.24 | 2.00 | 0.00 | 1.88 | 0.02 | 0.00 |
| 16.26 | 2.00 | 0.00 | 1.87 | 0.02 | 0.00 | 16.28 | 1.50 | 0.00 | 1.86 | 0.02 | 0.00 |
| 16.30 | 1.53 | 0.00 | 1.85 | 0.02 | 0.00 | 16.32 | 1.49 | 0.00 | 1.84 | 0.02 | 0.00 |
| 16.34 | 2.00 | 0.00 | 1.83 | 0.02 | 0.00 | 16.36 | 2.00 | 0.00 | 1.82 | 0.02 | 0.00 |
| 16.38 | 1.30 | 0.00 | 1.81 | 0.02 | 0.00 | 16.40 | 1.26 | 0.00 | 1.80 | 0.02 | 0.00 |
| 16.42 | 1.26 | 0.00 | 1.79 | 0.02 | 0.00 | 16.44 | 1.27 | 0.00 | 1.78 | 0.02 | 0.00 |
| 16.46 | 1.27 | 0.00 | 1.77 | 0.02 | 0.00 | 16.48 | 1.27 | 0.00 | 1.76 | 0.02 | 0.00 |
| 16.50 | 1.28 | 0.00 | 1.75 | 0.02 | 0.00 | 16.52 | 1.28 | 0.00 | 1.74 | 0.02 | 0.00 |
| 16.54 | 1.28 | 0.00 | 1.73 | 0.02 | 0.00 | 16.56 | 1.27 | 0.00 | 1.72 | 0.02 | 0.00 |
| 16.58 | 1.25 | 0.00 | 1.71 | 0.02 | 0.00 | 16.60 | 1.24 | 0.00 | 1.70 | 0.02 | 0.00 |
| 16.62 | 1.25 | 0.00 | 1.69 | 0.02 | 0.00 | 16.64 | 1.27 | 0.00 | 1.68 | 0.02 | 0.00 |
| 16.66 | 1.32 | 0.00 | 1.67 | 0.02 | 0.00 | 16.68 | 1.35 | 0.00 | 1.66 | 0.02 | 0.00 |
| 16.70 | 1.35 | 0.00 | 1.65 | 0.02 | 0.00 | 16.72 | 1.34 | 0.00 | 1.64 | 0.02 | 0.00 |
| 16.74 | 1.36 | 0.00 | 1.63 | 0.02 | 0.00 | 16.76 | 1.45 | 0.00 | 1.62 | 0.02 | 0.00 |
| 16.78 | 1.60 | 0.00 | 1.61 | 0.02 | 0.00 | 16.80 | 1.77 | 0.00 | 1.60 | 0.02 | 0.00 |
| 16.82 | 1.89 | 0.00 | 1.59 | 0.02 | 0.00 | 16.84 | 1.97 | 0.00 | 1.58 | 0.02 | 0.00 |
| 16.86 | 1.99 | 0.00 | 1.57 | 0.02 | 0.00 | 16.88 | 2.00 | 0.00 | 1.56 | 0.02 | 0.00 |
| 16.90 | 2.00 | 0.00 | 1.55 | 0.02 | 0.00 | 16.92 | 2.00 | 0.00 | 1.54 | 0.02 | 0.00 |
| 16.94 | 2.00 | 0.00 | 1.53 | 0.02 | 0.00 | 16.96 | 2.00 | 0.00 | 1.52 | 0.02 | 0.00 |
| 16.98 | 2.00 | 0.00 | 1.51 | 0.02 | 0.00 | 17.00 | 2.00 | 0.00 | 1.50 | 0.02 | 0.00 |
| 17.02 | 2.00 | 0.00 | 1.49 | 0.02 | 0.00 | 17.04 | 2.00 | 0.00 | 1.48 | 0.02 | 0.00 |
| 17.06 | 2.00 | 0.00 | 1.47 | 0.02 | 0.00 | 17.08 | 2.00 | 0.00 | 1.46 | 0.02 | 0.00 |
| 17.10 | 2.00 | 0.00 | 1.45 | 0.02 | 0.00 | 17.12 | 2.00 | 0.00 | 1.44 | 0.02 | 0.00 |
| 17.14 | 2.00 | 0.00 | 1.43 | 0.02 | 0.00 | 17.16 | 2.00 | 0.00 | 1.42 | 0.02 | 0.00 |
| 17.18 | 2.00 | 0.00 | 1.41 | 0.02 | 0.00 | 17.20 | 2.00 | 0.00 | 1.40 | 0.02 | 0.00 |
| 17.22 | 2.00 | 0.00 | 1.39 | 0.02 | 0.00 | 17.24 | 2.00 | 0.00 | 1.38 | 0.02 | 0.00 |
| 17.26 | 2.00 | 0.00 | 1.37 | 0.02 | 0.00 | 17.28 | 2.00 | 0.00 | 1.36 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 17.30 | 2.00 | 0.00 | 1.35 | 0.02 | 0.00 | 17.32 | 2.00 | 0.00 | 1.34 | 0.02 | 0.00 |
| 17.34 | 2.00 | 0.00 | 1.33 | 0.02 | 0.00 | 17.36 | 2.00 | 0.00 | 1.32 | 0.02 | 0.00 |
| 17.38 | 2.00 | 0.00 | 1.31 | 0.02 | 0.00 | 17.40 | 2.00 | 0.00 | 1.30 | 0.02 | 0.00 |
| 17.42 | 2.00 | 0.00 | 1.29 | 0.02 | 0.00 | 17.44 | 2.00 | 0.00 | 1.28 | 0.02 | 0.00 |
| 17.46 | 2.00 | 0.00 | 1.27 | 0.02 | 0.00 | 17.48 | 2.00 | 0.00 | 1.26 | 0.02 | 0.00 |
| 17.50 | 2.00 | 0.00 | 1.25 | 0.02 | 0.00 | 17.52 | 2.00 | 0.00 | 1.24 | 0.02 | 0.00 |
| 17.54 | 2.00 | 0.00 | 1.23 | 0.02 | 0.00 | 17.56 | 2.00 | 0.00 | 1.22 | 0.02 | 0.00 |
| 17.58 | 2.00 | 0.00 | 1.21 | 0.02 | 0.00 | 17.60 | 2.00 | 0.00 | 1.20 | 0.02 | 0.00 |
| 17.62 | 2.00 | 0.00 | 1.19 | 0.02 | 0.00 | 17.64 | 2.00 | 0.00 | 1.18 | 0.02 | 0.00 |
| 17.66 | 2.00 | 0.00 | 1.17 | 0.02 | 0.00 | 17.68 | 2.00 | 0.00 | 1.16 | 0.02 | 0.00 |
| 17.70 | 2.00 | 0.00 | 1.15 | 0.02 | 0.00 | 17.72 | 2.00 | 0.00 | 1.14 | 0.02 | 0.00 |
| 17.74 | 2.00 | 0.00 | 1.13 | 0.02 | 0.00 | 17.76 | 2.00 | 0.00 | 1.12 | 0.02 | 0.00 |
| 17.78 | 2.00 | 0.00 | 1.11 | 0.02 | 0.00 | 17.80 | 2.00 | 0.00 | 1.10 | 0.02 | 0.00 |
| 17.82 | 2.00 | 0.00 | 1.09 | 0.02 | 0.00 | 17.84 | 2.00 | 0.00 | 1.08 | 0.02 | 0.00 |
| 17.86 | 2.00 | 0.00 | 1.07 | 0.02 | 0.00 | 17.88 | 2.00 | 0.00 | 1.06 | 0.02 | 0.00 |
| 17.90 | 2.00 | 0.00 | 1.05 | 0.02 | 0.00 | 17.92 | 2.00 | 0.00 | 1.04 | 0.02 | 0.00 |
| 17.94 | 2.00 | 0.00 | 1.03 | 0.02 | 0.00 | 17.96 | 2.00 | 0.00 | 1.02 | 0.02 | 0.00 |
| 17.98 | 2.00 | 0.00 | 1.01 | 0.02 | 0.00 | 18.00 | 2.00 | 0.00 | 1.00 | 0.02 | 0.00 |
| 18.02 | 2.00 | 0.00 | 0.99 | 0.02 | 0.00 | 18.04 | 2.00 | 0.00 | 0.98 | 0.02 | 0.00 |
| 18.06 | 2.00 | 0.00 | 0.97 | 0.02 | 0.00 | 18.08 | 2.00 | 0.00 | 0.96 | 0.02 | 0.00 |
| 18.10 | 2.00 | 0.00 | 0.95 | 0.02 | 0.00 | 18.12 | 2.00 | 0.00 | 0.94 | 0.02 | 0.00 |
| 18.14 | 2.00 | 0.00 | 0.93 | 0.02 | 0.00 | 18.16 | 2.00 | 0.00 | 0.92 | 0.02 | 0.00 |
| 18.18 | 2.00 | 0.00 | 0.91 | 0.02 | 0.00 | 18.20 | 2.00 | 0.00 | 0.90 | 0.02 | 0.00 |
| 18.22 | 2.00 | 0.00 | 0.89 | 0.02 | 0.00 | 18.24 | 2.00 | 0.00 | 0.88 | 0.02 | 0.00 |
| 18.26 | 2.00 | 0.00 | 0.87 | 0.02 | 0.00 | 18.28 | 2.00 | 0.00 | 0.86 | 0.02 | 0.00 |
| 18.30 | 2.00 | 0.00 | 0.85 | 0.02 | 0.00 | 18.32 | 2.00 | 0.00 | 0.84 | 0.02 | 0.00 |
| 18.34 | 2.00 | 0.00 | 0.83 | 0.02 | 0.00 | 18.36 | 2.00 | 0.00 | 0.82 | 0.02 | 0.00 |
| 18.38 | 2.00 | 0.00 | 0.81 | 0.02 | 0.00 | 18.40 | 2.00 | 0.00 | 0.80 | 0.02 | 0.00 |
| 18.42 | 2.00 | 0.00 | 0.79 | 0.02 | 0.00 | 18.44 | 2.00 | 0.00 | 0.78 | 0.02 | 0.00 |
| 18.46 | 2.00 | 0.00 | 0.77 | 0.02 | 0.00 | 18.48 | 2.00 | 0.00 | 0.76 | 0.02 | 0.00 |
| 18.50 | 2.00 | 0.00 | 0.75 | 0.02 | 0.00 | 18.52 | 2.00 | 0.00 | 0.74 | 0.02 | 0.00 |
| 18.54 | 2.00 | 0.00 | 0.73 | 0.02 | 0.00 | 18.56 | 2.00 | 0.00 | 0.72 | 0.02 | 0.00 |
| 18.58 | 2.00 | 0.00 | 0.71 | 0.02 | 0.00 | 18.60 | 1.39 | 0.00 | 0.70 | 0.02 | 0.00 |
| 18.62 | 1.49 | 0.00 | 0.69 | 0.02 | 0.00 | 18.64 | 1.52 | 0.00 | 0.68 | 0.02 | 0.00 |
| 18.66 | 1.51 | 0.00 | 0.67 | 0.02 | 0.00 | 18.68 | 1.47 | 0.00 | 0.66 | 0.02 | 0.00 |
| 18.70 | 1.46 | 0.00 | 0.65 | 0.02 | 0.00 | 18.72 | 1.51 | 0.00 | 0.64 | 0.02 | 0.00 |
| 18.74 | 1.60 | 0.00 | 0.63 | 0.02 | 0.00 | 18.76 | 1.63 | 0.00 | 0.62 | 0.02 | 0.00 |
| 18.78 | 1.64 | 0.00 | 0.61 | 0.02 | 0.00 | 18.80 | 1.67 | 0.00 | 0.60 | 0.02 | 0.00 |
| 18.82 | 1.72 | 0.00 | 0.59 | 0.02 | 0.00 | 18.84 | 1.77 | 0.00 | 0.58 | 0.02 | 0.00 |
| 18.86 | 1.78 | 0.00 | 0.57 | 0.02 | 0.00 | 18.88 | 2.00 | 0.00 | 0.56 | 0.02 | 0.00 |
| 18.90 | 2.00 | 0.00 | 0.55 | 0.02 | 0.00 | 18.92 | 2.00 | 0.00 | 0.54 | 0.02 | 0.00 |
| 18.94 | 2.00 | 0.00 | 0.53 | 0.02 | 0.00 | 18.96 | 2.00 | 0.00 | 0.52 | 0.02 | 0.00 |
| 18.98 | 2.00 | 0.00 | 0.51 | 0.02 | 0.00 | 19.00 | 2.00 | 0.00 | 0.50 | 0.02 | 0.00 |
| 19.02 | 2.00 | 0.00 | 0.49 | 0.02 | 0.00 | 19.04 | 2.00 | 0.00 | 0.48 | 0.02 | 0.00 |
| 19.06 | 2.00 | 0.00 | 0.47 | 0.02 | 0.00 | 19.08 | 2.00 | 0.00 | 0.46 | 0.02 | 0.00 |
| 19.10 | 2.00 | 0.00 | 0.45 | 0.02 | 0.00 | 19.12 | 2.00 | 0.00 | 0.44 | 0.02 | 0.00 |
| 19.14 | 2.00 | 0.00 | 0.43 | 0.02 | 0.00 | 19.16 | 2.00 | 0.00 | 0.42 | 0.02 | 0.00 |
| 19.18 | 2.00 | 0.00 | 0.41 | 0.02 | 0.00 | 19.20 | 2.00 | 0.00 | 0.40 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 19.22 | 2.00 | 0.00 | 0.39 | 0.02 | 0.00 | 19.24 | 2.00 | 0.00 | 0.38 | 0.02 | 0.00 |
| 19.26 | 2.00 | 0.00 | 0.37 | 0.02 | 0.00 | 19.28 | 2.00 | 0.00 | 0.36 | 0.02 | 0.00 |
| 19.30 | 2.00 | 0.00 | 0.35 | 0.02 | 0.00 | 19.32 | 2.00 | 0.00 | 0.34 | 0.02 | 0.00 |
| 19.34 | 2.00 | 0.00 | 0.33 | 0.02 | 0.00 | 19.36 | 2.00 | 0.00 | 0.32 | 0.02 | 0.00 |
| 19.38 | 2.00 | 0.00 | 0.31 | 0.02 | 0.00 | 19.40 | 2.00 | 0.00 | 0.30 | 0.02 | 0.00 |
| 19.42 | 2.00 | 0.00 | 0.29 | 0.02 | 0.00 | 19.44 | 2.00 | 0.00 | 0.28 | 0.02 | 0.00 |
| 19.46 | 2.00 | 0.00 | 0.27 | 0.02 | 0.00 | 19.48 | 2.00 | 0.00 | 0.26 | 0.02 | 0.00 |
| 19.50 | 2.00 | 0.00 | 0.25 | 0.02 | 0.00 | 19.52 | 2.00 | 0.00 | 0.24 | 0.02 | 0.00 |
| 19.54 | 2.00 | 0.00 | 0.23 | 0.02 | 0.00 | 19.56 | 2.00 | 0.00 | 0.22 | 0.02 | 0.00 |
| 19.58 | 2.00 | 0.00 | 0.21 | 0.02 | 0.00 | 19.60 | 2.00 | 0.00 | 0.20 | 0.02 | 0.00 |
| 19.62 | 2.00 | 0.00 | 0.19 | 0.02 | 0.00 | 19.64 | 2.00 | 0.00 | 0.18 | 0.02 | 0.00 |
| 19.66 | 2.00 | 0.00 | 0.17 | 0.02 | 0.00 | 19.68 | 1.33 | 0.00 | 0.16 | 0.02 | 0.00 |
| 19.70 | 1.42 | 0.00 | 0.15 | 0.02 | 0.00 | 19.72 | 1.58 | 0.00 | 0.14 | 0.02 | 0.00 |
| 19.74 | 1.72 | 0.00 | 0.13 | 0.02 | 0.00 | 19.76 | 1.82 | 0.00 | 0.12 | 0.02 | 0.00 |
| 19.78 | 2.00 | 0.00 | 0.11 | 0.02 | 0.00 | 19.80 | 2.00 | 0.00 | 0.10 | 0.02 | 0.00 |
| 19.82 | 2.00 | 0.00 | 0.09 | 0.02 | 0.00 | 19.84 | 2.00 | 0.00 | 0.08 | 0.02 | 0.00 |
| 19.86 | 2.00 | 0.00 | 0.07 | 0.02 | 0.00 | 19.88 | 2.00 | 0.00 | 0.06 | 0.02 | 0.00 |
| 19.90 | 2.00 | 0.00 | 0.05 | 0.02 | 0.00 | | | | | | |

Overall liquefaction potential: 0.07

LPI = 0.00 - Liquefaction risk very low
 LPI between 0.00 and 5.00 - Liquefaction risk low
 LPI between 5.00 and 15.00 - Liquefaction risk high
 LPI > 15.00 - Liquefaction risk very high

Abbreviations

FS: Calculated factor of safety for test point
 F_L: 1 - FS
 w_z: Function value of the extend of soil liquefaction according to depth
 d_z: Layer thickness (m)
 LPI: Liquefaction potential index value for test point

LIQUEFACTION ANALYSIS REPORT

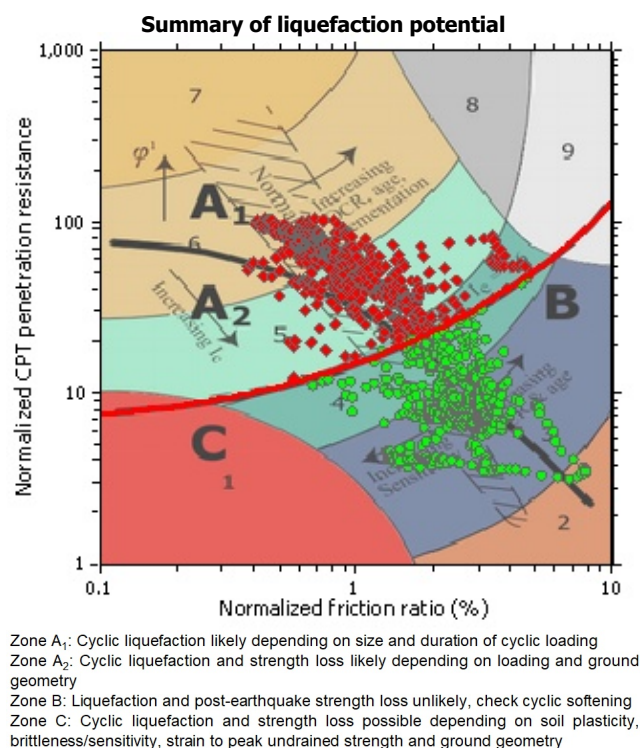
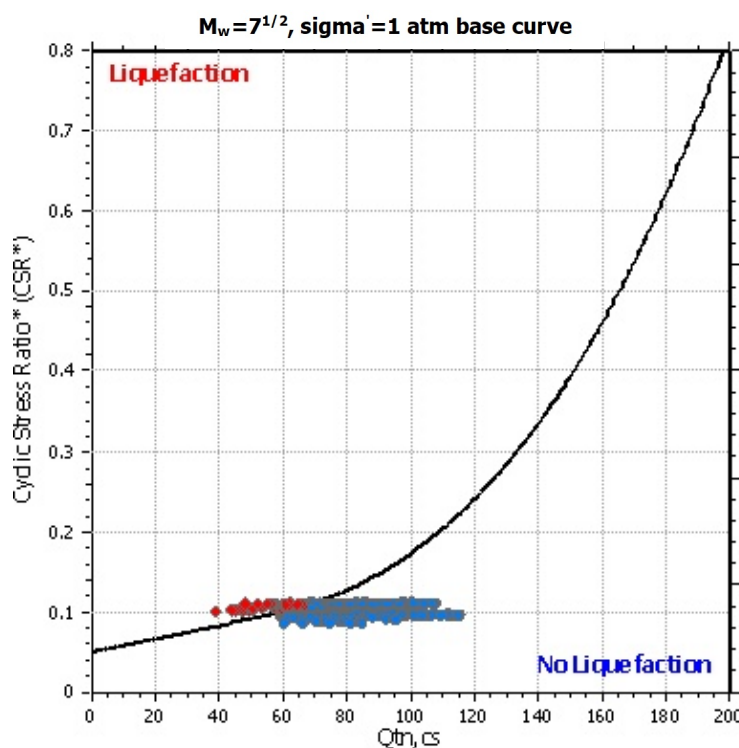
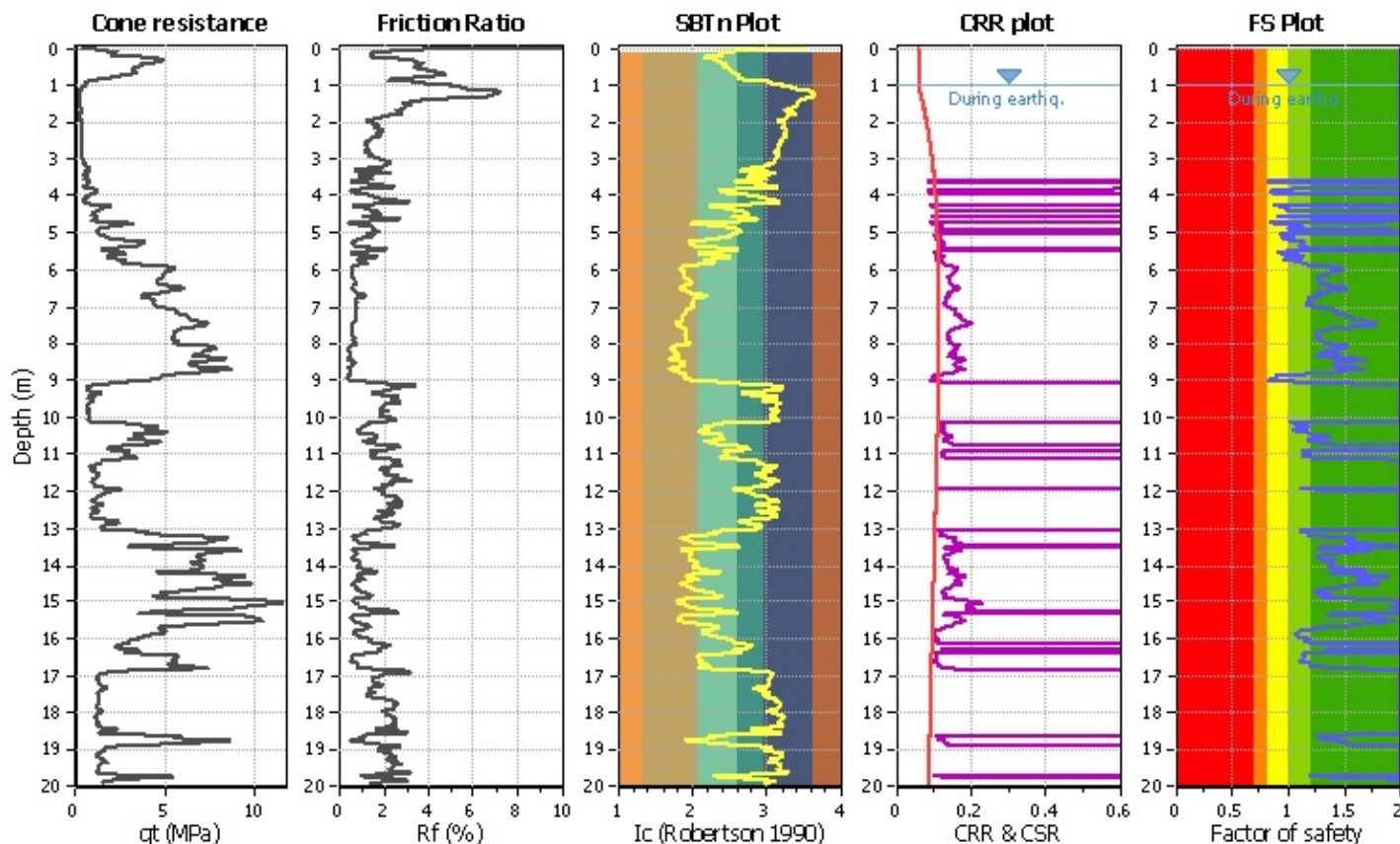
Project title :

Location :

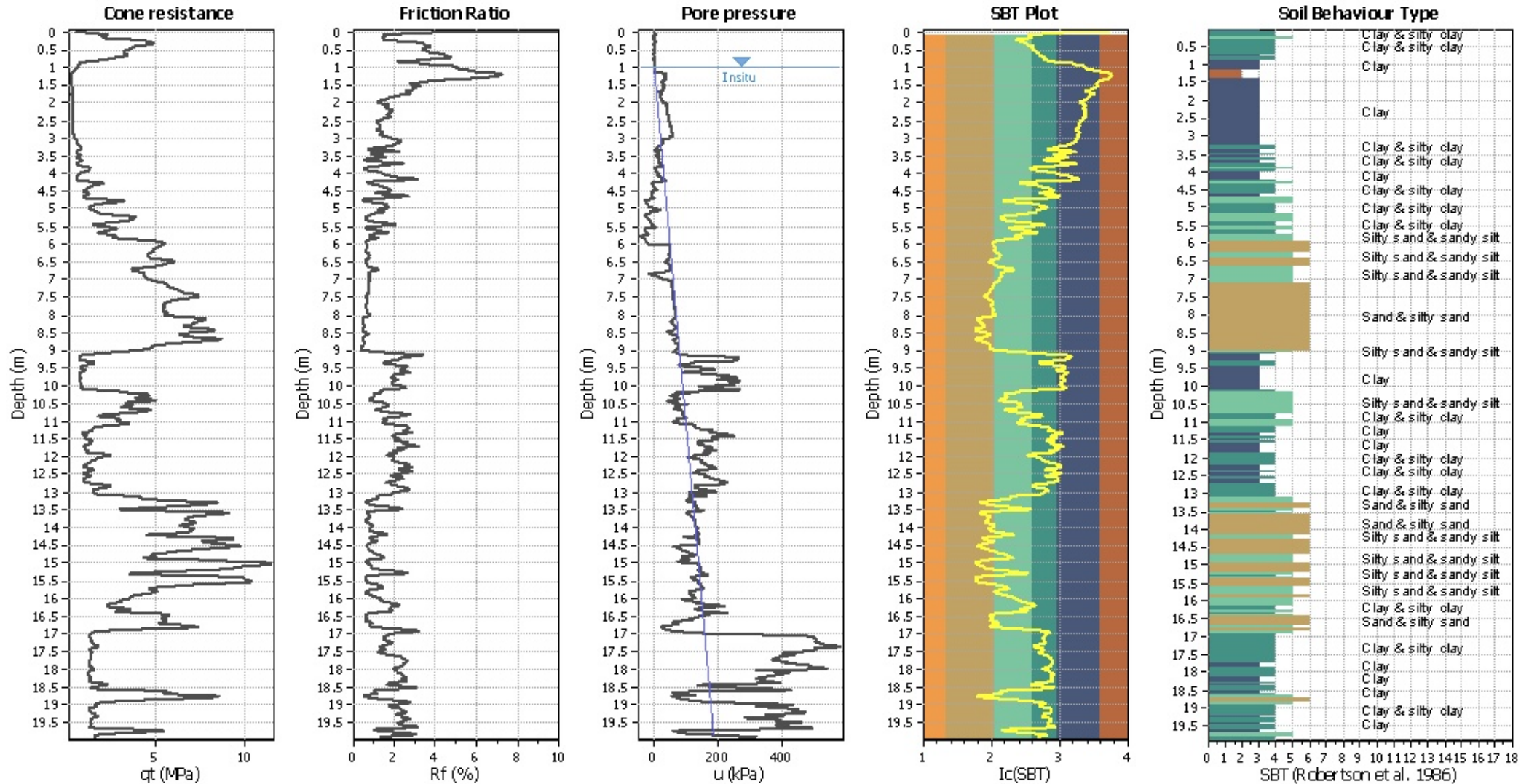
CPT file : CPTU4

Input parameters and analysis data

| | | | | | | | |
|------------------------------|-------------------|---------------------------|--------------|-------------------------|-----|----------------------|--------------|
| Analysis method: | NCEER (1998) | G.W.T. (in-situ): | 1.00 m | Use fill: | No | Clay like behavior | |
| Fines correction method: | NCEER (1998) | G.W.T. (earthq.): | 1.00 m | Fill height: | N/A | applied: | Sands only |
| Points to test: | Based on Ic value | Average results interval: | 3 | Fill weight: | N/A | Limit depth applied: | No |
| Earthquake magnitude M_w : | 5.75 | Ic cut-off value: | 2.60 | Trans. detect. applied: | No | Limit depth: | N/A |
| Peak ground acceleration: | 0.17 | Unit weight calculation: | Based on SBT | K_0 applied: | Yes | MSF method: | Method based |



CPT basic interpretation plo



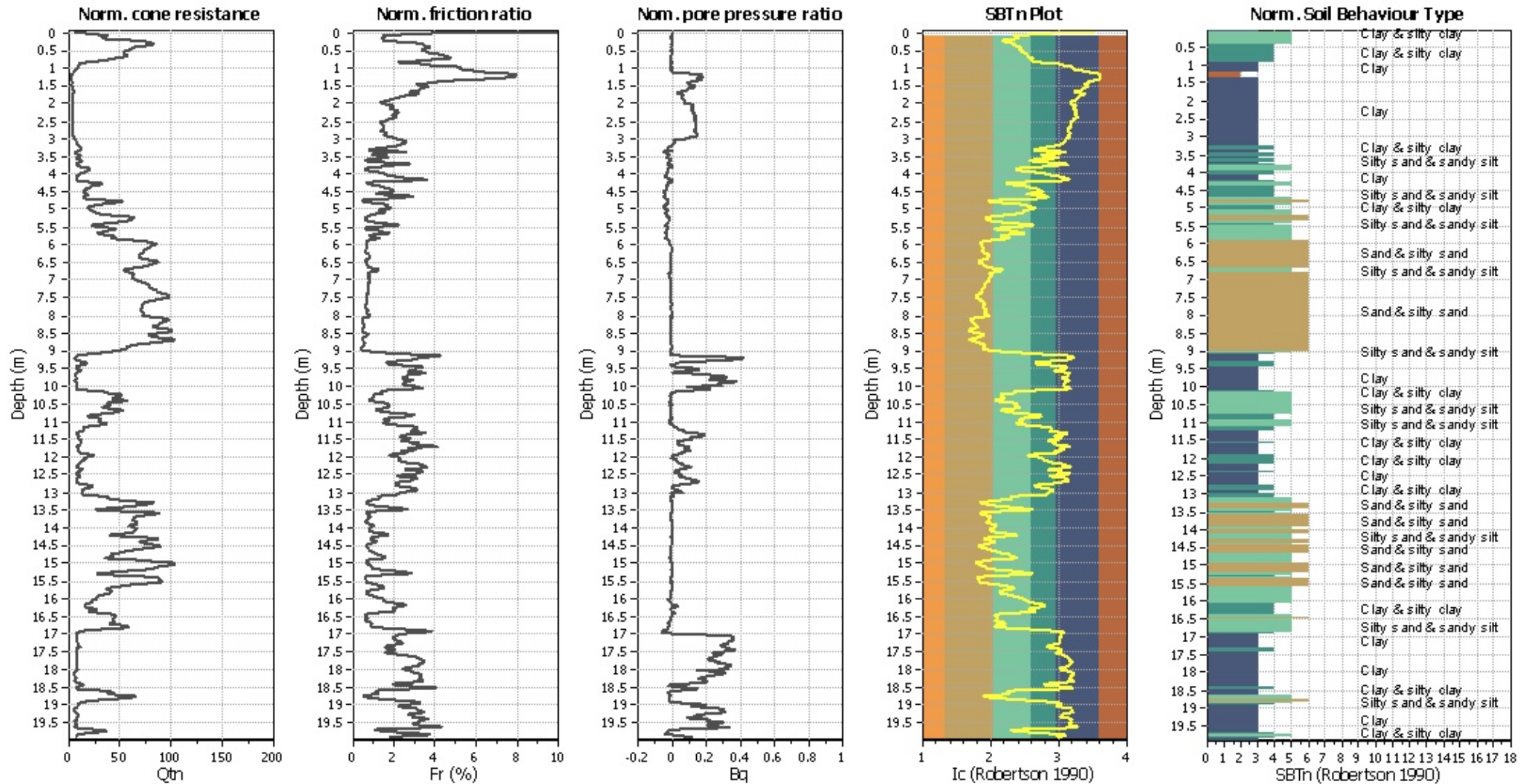
Input parameters and analysis data

| | | | | | |
|---------------------------------------|-------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K ₀ applied: | Yes |
| Earthquake magnitude M _w : | 5.75 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

SBT legend

| | | |
|---------------------------|-----------------------------|----------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty | 7. Gravely sand to sand |
| 2. Organic material | 5. Silty sand to sandy silt | 8. Very stiff sand to |
| 3. Clay to silty clay | 6. Clean sand to silty sand | 9. Very stiff fine grained |

CPT basic interpretation plots (normaliz



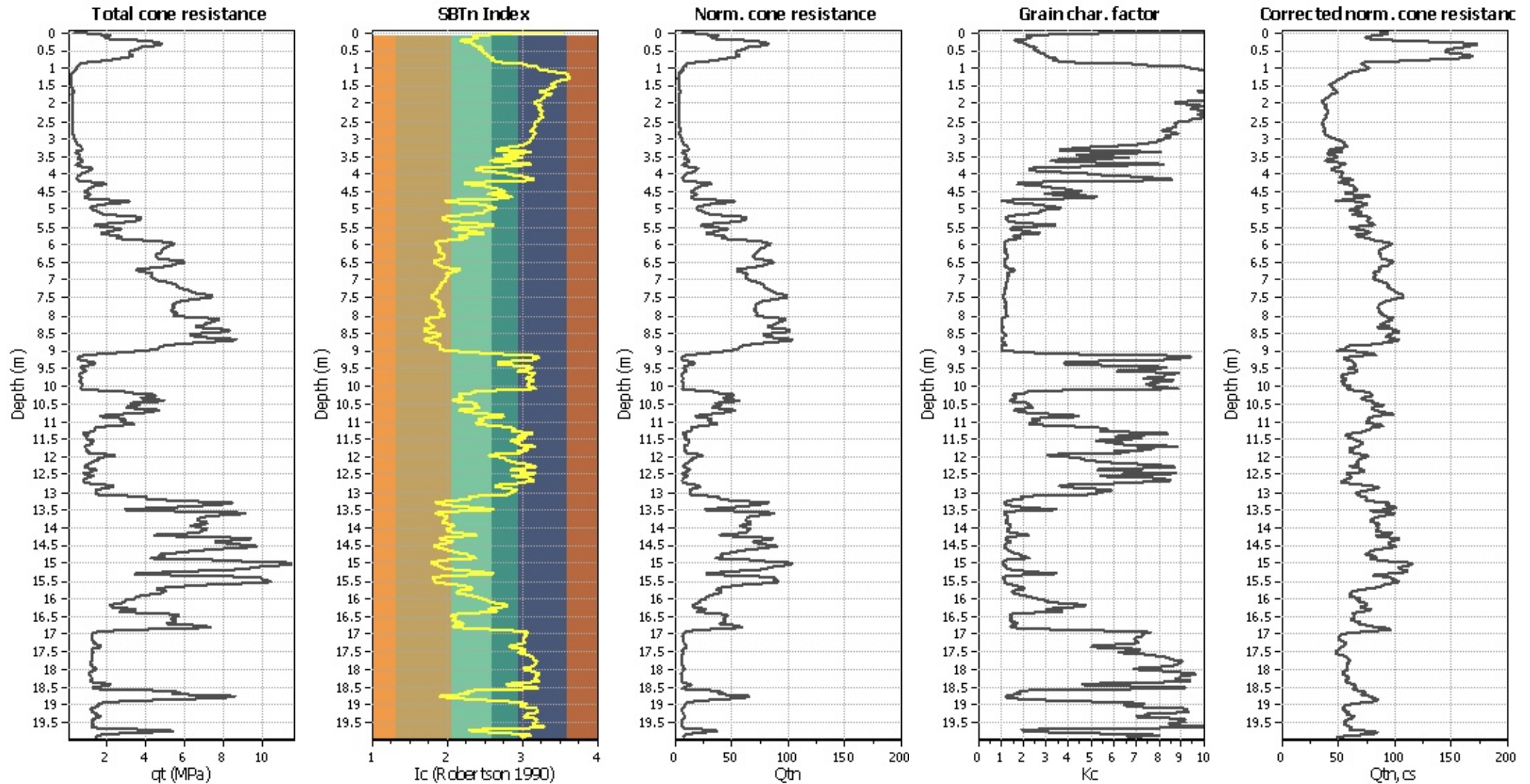
Input parameters and analysis data

| | | | | | |
|---------------------------------------|-------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K ₀ applied: | Yes |
| Earthquake magnitude M _w : | 5.75 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

SBTn legend

| | | |
|---------------------------|-----------------------------|----------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty | 7. Gravely sand to sand |
| 2. Organic material | 5. Silty sand to sandy silt | 8. Very stiff sand to |
| 3. Clay to silty clay | 6. Clean sand to silty sand | 9. Very stiff fine grained |

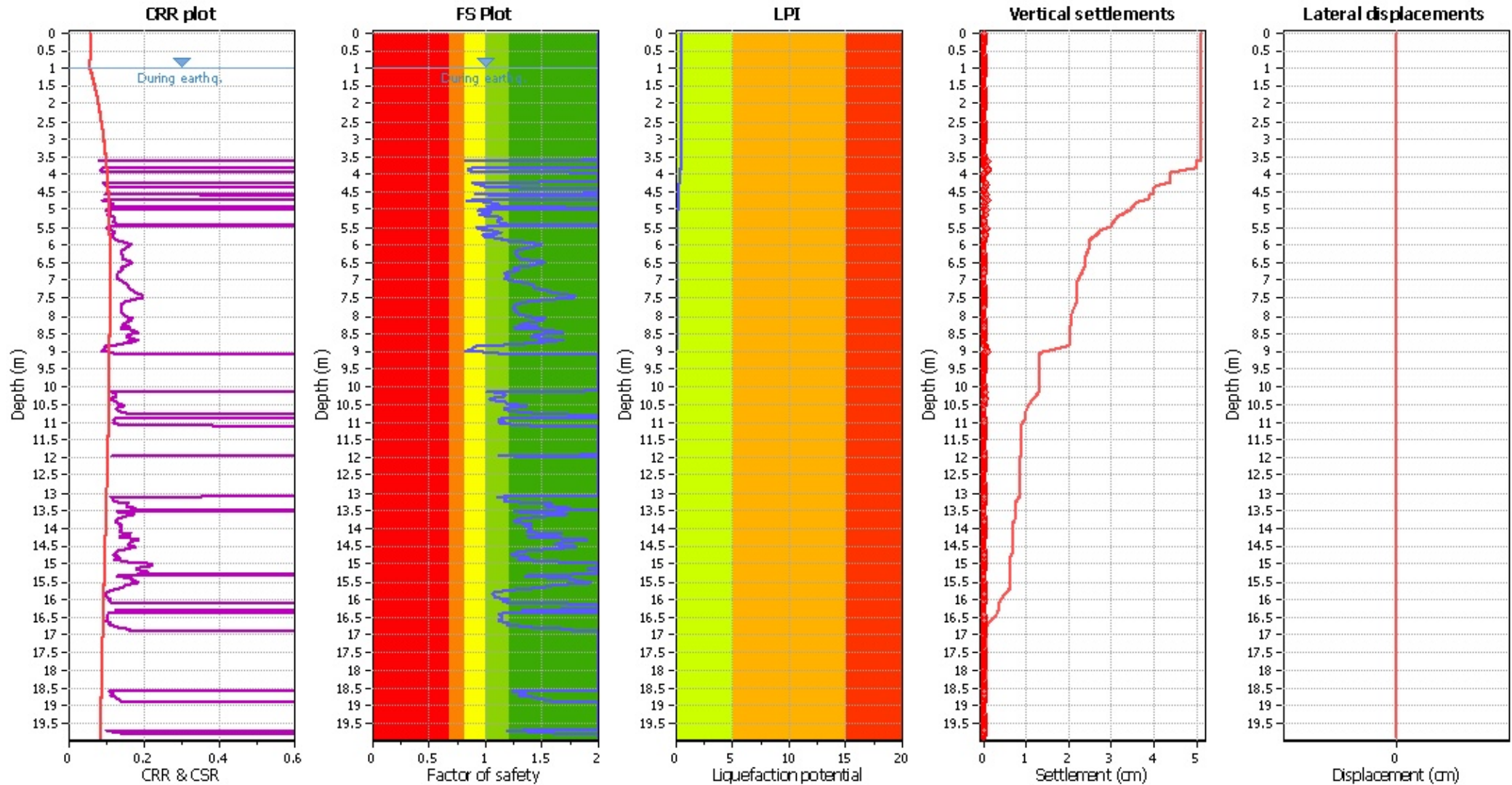
Liquefaction analysis overall plots (intermediate res)



Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 5.75 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

Liquefaction analysis overall plot



Input parameters and analysis data

| | | | | | |
|--------------------------------|-------------------|---------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (earthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 5.75 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

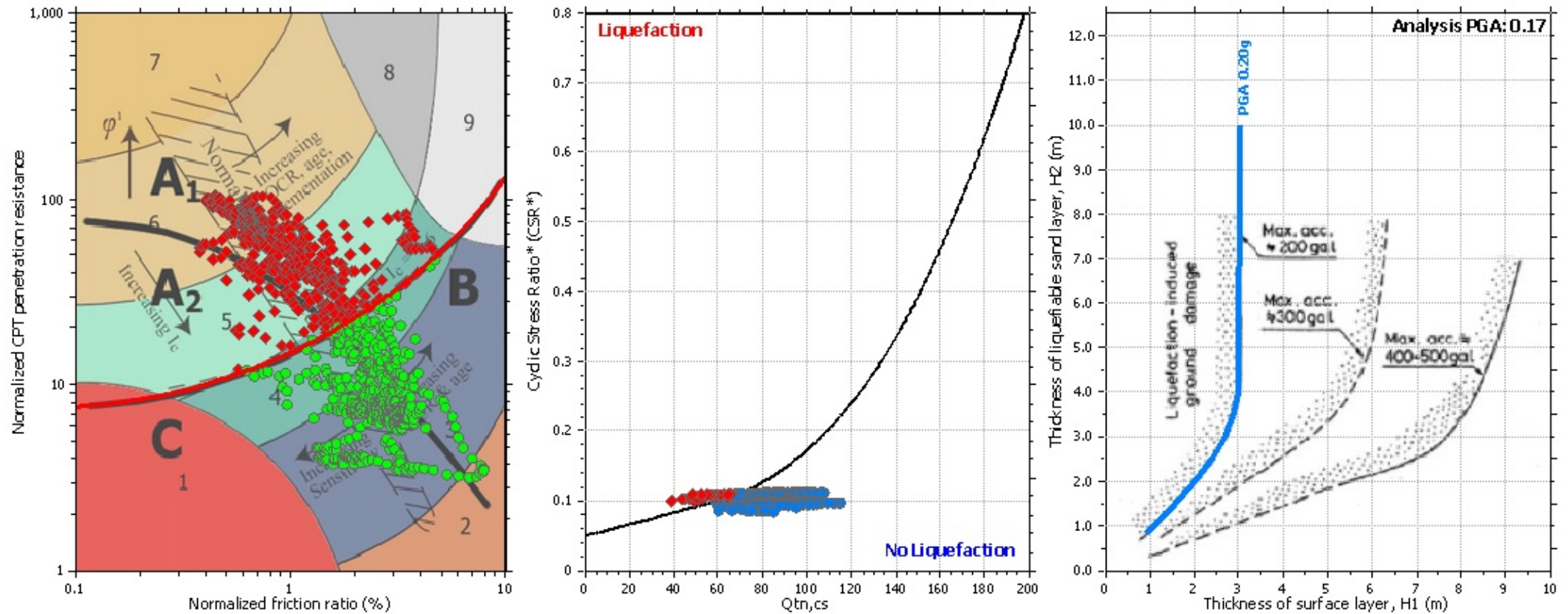
F.S. color scheme

| | |
|---|---|
| ■ | Almost certain it will liquefy |
| ■ | Very likely to liquefy |
| ■ | Liquefaction and no liq. are equally likely |
| ■ | Unlike to liquefy |
| ■ | Almost certain it will not liquefy |

LPI color scheme

| | |
|---------------------------------------|----------------|
| ■ | Very high risk |
| ■ | High risk |
| ■ | Low risk |

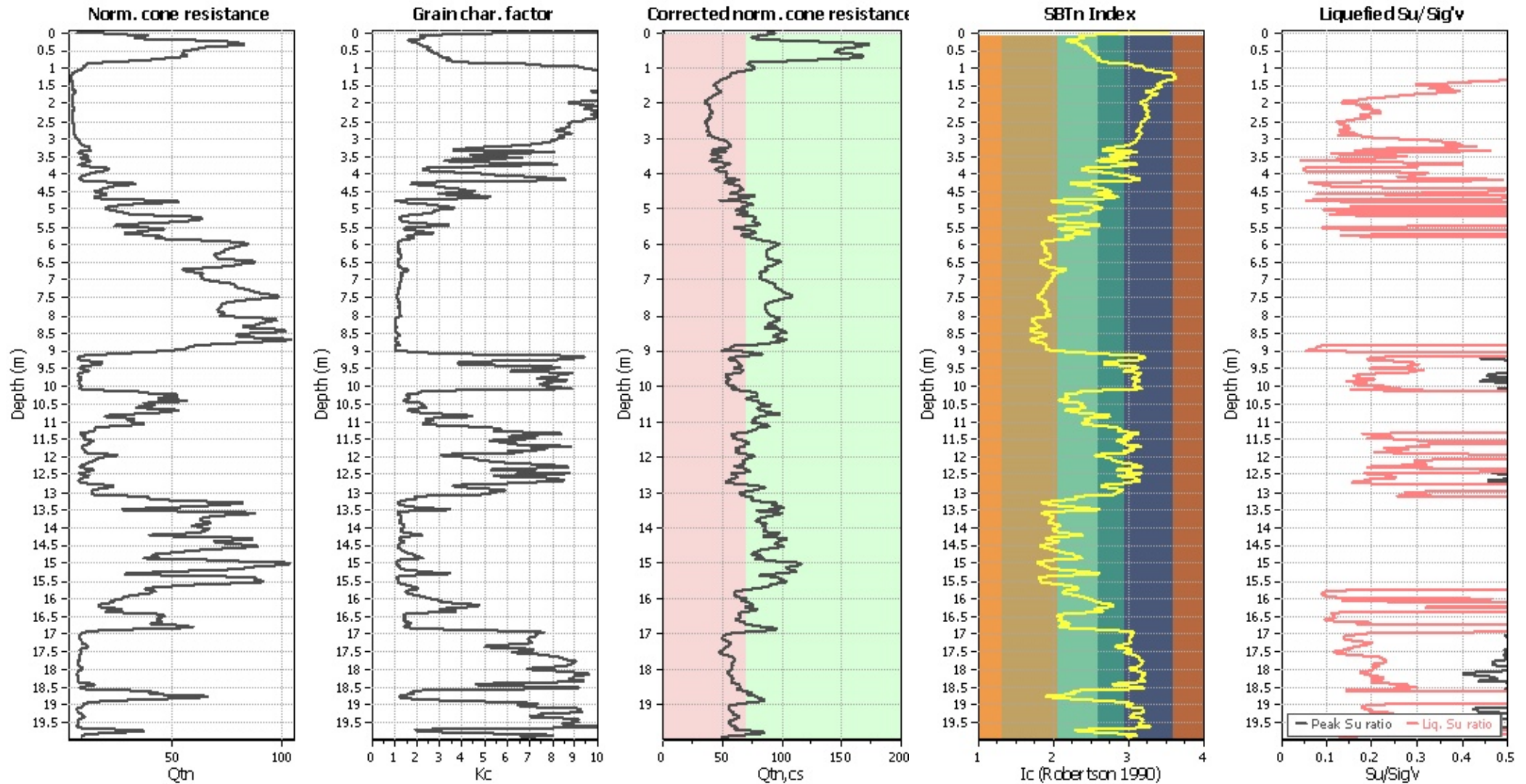
Liquefaction analysis summary plo



Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 5.75 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

Check for strength loss plots (Robertson (2010))



Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 5.75 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

| Point ID | Depth (m) | q_t (MPa) | I_c | Fr (%) | n | Q_{tn} | K_c | $Q_{tn,cs}$ | CRR _{7.5} | Belongs to trans. layer | Clay-like behaviour | FS |
|----------|-----------|-------------|-------|--------|------|----------|-------|-------------|--------------------|-------------------------|---------------------|------|
| 961 | 19.22 | 1.30 | 3.19 | 3.46 | 1.00 | 6.50 | 9.07 | 58.92 | 4.000 | No | Yes | 2.00 |
| 962 | 19.24 | 1.40 | 3.13 | 3.17 | 1.00 | 7.17 | 8.31 | 59.61 | 4.000 | No | Yes | 2.00 |
| 963 | 19.26 | 1.50 | 3.07 | 2.76 | 1.00 | 7.82 | 7.50 | 58.69 | 4.000 | No | Yes | 2.00 |
| 964 | 19.28 | 1.51 | 3.06 | 2.68 | 1.00 | 7.88 | 7.39 | 58.17 | 4.000 | No | Yes | 2.00 |
| 965 | 19.30 | 1.53 | 3.07 | 2.92 | 1.00 | 8.01 | 7.56 | 60.58 | 4.000 | No | Yes | 2.00 |
| 966 | 19.32 | 1.62 | 3.05 | 3.00 | 1.00 | 8.62 | 7.32 | 63.10 | 4.000 | No | Yes | 2.00 |
| 967 | 19.34 | 1.70 | 3.02 | 2.89 | 1.00 | 9.16 | 6.96 | 63.76 | 4.000 | No | Yes | 2.00 |
| 968 | 19.36 | 1.64 | 3.04 | 2.93 | 1.00 | 8.74 | 7.19 | 62.86 | 4.000 | No | Yes | 2.00 |
| 969 | 19.38 | 1.46 | 3.13 | 3.39 | 1.00 | 7.50 | 8.31 | 62.33 | 4.000 | No | Yes | 2.00 |
| 970 | 19.40 | 1.33 | 3.19 | 3.71 | 1.00 | 6.67 | 9.17 | 61.15 | 4.000 | No | Yes | 2.00 |
| 971 | 19.42 | 1.31 | 3.19 | 3.55 | 1.00 | 6.53 | 9.12 | 59.59 | 4.000 | No | Yes | 2.00 |
| 972 | 19.44 | 1.32 | 3.17 | 3.24 | 1.00 | 6.54 | 8.82 | 57.73 | 4.000 | No | Yes | 2.00 |
| 973 | 19.46 | 1.28 | 3.18 | 3.22 | 1.00 | 6.31 | 8.97 | 56.61 | 4.000 | No | Yes | 2.00 |
| 974 | 19.48 | 1.26 | 3.19 | 3.27 | 1.00 | 6.13 | 9.17 | 56.20 | 4.000 | No | Yes | 2.00 |
| 975 | 19.50 | 1.26 | 3.18 | 3.12 | 1.00 | 6.16 | 9.00 | 55.42 | 4.000 | No | Yes | 2.00 |
| 976 | 19.52 | 1.32 | 3.14 | 2.89 | 1.00 | 6.50 | 8.49 | 55.16 | 4.000 | No | Yes | 2.00 |
| 977 | 19.54 | 1.33 | 3.14 | 2.91 | 1.00 | 6.56 | 8.46 | 55.56 | 4.000 | No | Yes | 2.00 |
| 978 | 19.56 | 1.31 | 3.17 | 3.26 | 1.00 | 6.46 | 8.90 | 57.49 | 4.000 | No | Yes | 2.00 |
| 979 | 19.58 | 1.25 | 3.23 | 3.75 | 1.00 | 6.06 | 9.69 | 58.74 | 4.000 | No | Yes | 2.00 |
| 980 | 19.60 | 1.21 | 3.28 | 4.31 | 1.00 | 5.79 | 10.44 | 60.44 | 4.000 | No | Yes | 2.00 |
| 981 | 19.62 | 1.23 | 3.27 | 4.31 | 1.00 | 5.91 | 10.32 | 61.05 | 4.000 | No | Yes | 2.00 |
| 982 | 19.64 | 1.56 | 3.08 | 3.09 | 1.00 | 8.06 | 7.70 | 62.03 | 4.000 | No | Yes | 2.00 |
| 983 | 19.66 | 2.52 | 2.71 | 1.62 | 0.91 | 14.89 | 4.03 | 60.07 | 4.000 | No | Yes | 2.00 |
| 984 | 19.68 | 3.89 | 2.42 | 1.08 | 0.80 | 25.38 | 2.38 | 60.50 | 0.101 | No | No | 1.19 |
| 985 | 19.70 | 5.05 | 2.30 | 1.04 | 0.75 | 34.32 | 1.94 | 66.52 | 0.107 | No | No | 1.27 |
| 986 | 19.72 | 5.40 | 2.33 | 1.32 | 0.76 | 36.64 | 2.05 | 75.09 | 0.119 | No | No | 1.41 |
| 987 | 19.74 | 4.96 | 2.44 | 1.73 | 0.80 | 32.85 | 2.47 | 81.18 | 0.130 | No | No | 1.54 |
| 988 | 19.76 | 4.13 | 2.59 | 2.26 | 0.86 | 26.27 | 3.24 | 85.10 | 0.137 | No | No | 1.63 |
| 989 | 19.78 | 3.24 | 2.74 | 2.80 | 0.92 | 19.57 | 4.32 | 84.52 | 4.000 | No | Yes | 2.00 |
| 990 | 19.80 | 2.45 | 2.91 | 3.38 | 0.98 | 13.85 | 5.81 | 80.54 | 4.000 | No | Yes | 2.00 |
| 991 | 19.82 | 1.91 | 3.04 | 3.72 | 1.00 | 10.21 | 7.24 | 73.96 | 4.000 | No | Yes | 2.00 |
| 992 | 19.84 | 1.60 | 3.11 | 3.55 | 1.00 | 8.22 | 8.03 | 66.03 | 4.000 | No | Yes | 2.00 |
| 993 | 19.86 | 1.51 | 3.08 | 2.81 | 1.00 | 7.61 | 7.68 | 58.45 | 4.000 | No | Yes | 2.00 |
| 994 | 19.88 | 1.50 | 3.02 | 2.13 | 1.00 | 7.53 | 6.98 | 52.54 | 4.000 | No | Yes | 2.00 |
| 995 | 19.90 | 1.49 | 2.99 | 1.79 | 1.00 | 7.47 | 6.58 | 49.14 | 4.000 | No | Yes | 2.00 |

Abbreviations

| | |
|----------------------|---|
| Depth: | Depth from free surface, at which CPT was performed (m) |
| q_t : | Total cone resistance |
| I_c : | Soil behavior type index |
| Fr: | Normalized friction ratio (%) |
| n: | Stress exponent |
| Q_{tn} : | Normalized cone resistance |
| K_c : | Cone resistance correction factor due to fines |
| $Q_{tn,cs}$: | Normalized and adjusted cone resistance |
| CRR _{7.5} : | Cyclic resistance ratio for $M_w=7.5$ |
| FS: | Factor of safety against soil liquefaction |

| :: Liquefaction Potential Index calculation data :: | | | | | | | | | | | |
|---|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
| 0.02 | 2.00 | 0.00 | 9.99 | 0.02 | 0.00 | 0.04 | 2.00 | 0.00 | 9.98 | 0.02 | 0.00 |
| 0.06 | 2.00 | 0.00 | 9.97 | 0.02 | 0.00 | 0.08 | 2.00 | 0.00 | 9.96 | 0.02 | 0.00 |
| 0.10 | 2.00 | 0.00 | 9.95 | 0.02 | 0.00 | 0.12 | 2.00 | 0.00 | 9.94 | 0.02 | 0.00 |
| 0.14 | 2.00 | 0.00 | 9.93 | 0.02 | 0.00 | 0.16 | 2.00 | 0.00 | 9.92 | 0.02 | 0.00 |
| 0.18 | 2.00 | 0.00 | 9.91 | 0.02 | 0.00 | 0.20 | 2.00 | 0.00 | 9.90 | 0.02 | 0.00 |
| 0.22 | 2.00 | 0.00 | 9.89 | 0.02 | 0.00 | 0.24 | 2.00 | 0.00 | 9.88 | 0.02 | 0.00 |
| 0.26 | 2.00 | 0.00 | 9.87 | 0.02 | 0.00 | 0.28 | 2.00 | 0.00 | 9.86 | 0.02 | 0.00 |
| 0.30 | 2.00 | 0.00 | 9.85 | 0.02 | 0.00 | 0.32 | 2.00 | 0.00 | 9.84 | 0.02 | 0.00 |
| 0.34 | 2.00 | 0.00 | 9.83 | 0.02 | 0.00 | 0.36 | 2.00 | 0.00 | 9.82 | 0.02 | 0.00 |
| 0.38 | 2.00 | 0.00 | 9.81 | 0.02 | 0.00 | 0.40 | 2.00 | 0.00 | 9.80 | 0.02 | 0.00 |
| 0.42 | 2.00 | 0.00 | 9.79 | 0.02 | 0.00 | 0.44 | 2.00 | 0.00 | 9.78 | 0.02 | 0.00 |
| 0.46 | 2.00 | 0.00 | 9.77 | 0.02 | 0.00 | 0.48 | 2.00 | 0.00 | 9.76 | 0.02 | 0.00 |
| 0.50 | 2.00 | 0.00 | 9.75 | 0.02 | 0.00 | 0.52 | 2.00 | 0.00 | 9.74 | 0.02 | 0.00 |
| 0.54 | 2.00 | 0.00 | 9.73 | 0.02 | 0.00 | 0.56 | 2.00 | 0.00 | 9.72 | 0.02 | 0.00 |
| 0.58 | 2.00 | 0.00 | 9.71 | 0.02 | 0.00 | 0.60 | 2.00 | 0.00 | 9.70 | 0.02 | 0.00 |
| 0.62 | 2.00 | 0.00 | 9.69 | 0.02 | 0.00 | 0.64 | 2.00 | 0.00 | 9.68 | 0.02 | 0.00 |
| 0.66 | 2.00 | 0.00 | 9.67 | 0.02 | 0.00 | 0.68 | 2.00 | 0.00 | 9.66 | 0.02 | 0.00 |
| 0.70 | 2.00 | 0.00 | 9.65 | 0.02 | 0.00 | 0.72 | 2.00 | 0.00 | 9.64 | 0.02 | 0.00 |
| 0.74 | 2.00 | 0.00 | 9.63 | 0.02 | 0.00 | 0.76 | 2.00 | 0.00 | 9.62 | 0.02 | 0.00 |
| 0.78 | 2.00 | 0.00 | 9.61 | 0.02 | 0.00 | 0.80 | 2.00 | 0.00 | 9.60 | 0.02 | 0.00 |
| 0.82 | 2.00 | 0.00 | 9.59 | 0.02 | 0.00 | 0.84 | 2.00 | 0.00 | 9.58 | 0.02 | 0.00 |
| 0.86 | 2.00 | 0.00 | 9.57 | 0.02 | 0.00 | 0.88 | 2.00 | 0.00 | 9.56 | 0.02 | 0.00 |
| 0.90 | 2.00 | 0.00 | 9.55 | 0.02 | 0.00 | 0.92 | 2.00 | 0.00 | 9.54 | 0.02 | 0.00 |
| 0.94 | 2.00 | 0.00 | 9.53 | 0.02 | 0.00 | 0.96 | 2.00 | 0.00 | 9.52 | 0.02 | 0.00 |
| 0.98 | 2.00 | 0.00 | 9.51 | 0.02 | 0.00 | 1.00 | 2.00 | 0.00 | 9.50 | 0.02 | 0.00 |
| 1.02 | 2.00 | 0.00 | 9.49 | 0.02 | 0.00 | 1.04 | 2.00 | 0.00 | 9.48 | 0.02 | 0.00 |
| 1.06 | 2.00 | 0.00 | 9.47 | 0.02 | 0.00 | 1.08 | 2.00 | 0.00 | 9.46 | 0.02 | 0.00 |
| 1.10 | 2.00 | 0.00 | 9.45 | 0.02 | 0.00 | 1.12 | 2.00 | 0.00 | 9.44 | 0.02 | 0.00 |
| 1.14 | 2.00 | 0.00 | 9.43 | 0.02 | 0.00 | 1.16 | 2.00 | 0.00 | 9.42 | 0.02 | 0.00 |
| 1.18 | 2.00 | 0.00 | 9.41 | 0.02 | 0.00 | 1.20 | 2.00 | 0.00 | 9.40 | 0.02 | 0.00 |
| 1.22 | 2.00 | 0.00 | 9.39 | 0.02 | 0.00 | 1.24 | 2.00 | 0.00 | 9.38 | 0.02 | 0.00 |
| 1.26 | 2.00 | 0.00 | 9.37 | 0.02 | 0.00 | 1.28 | 2.00 | 0.00 | 9.36 | 0.02 | 0.00 |
| 1.30 | 2.00 | 0.00 | 9.35 | 0.02 | 0.00 | 1.32 | 2.00 | 0.00 | 9.34 | 0.02 | 0.00 |
| 1.34 | 2.00 | 0.00 | 9.33 | 0.02 | 0.00 | 1.36 | 2.00 | 0.00 | 9.32 | 0.02 | 0.00 |
| 1.38 | 2.00 | 0.00 | 9.31 | 0.02 | 0.00 | 1.40 | 2.00 | 0.00 | 9.30 | 0.02 | 0.00 |
| 1.42 | 2.00 | 0.00 | 9.29 | 0.02 | 0.00 | 1.44 | 2.00 | 0.00 | 9.28 | 0.02 | 0.00 |
| 1.46 | 2.00 | 0.00 | 9.27 | 0.02 | 0.00 | 1.48 | 2.00 | 0.00 | 9.26 | 0.02 | 0.00 |
| 1.50 | 2.00 | 0.00 | 9.25 | 0.02 | 0.00 | 1.52 | 2.00 | 0.00 | 9.24 | 0.02 | 0.00 |
| 1.54 | 2.00 | 0.00 | 9.23 | 0.02 | 0.00 | 1.56 | 2.00 | 0.00 | 9.22 | 0.02 | 0.00 |
| 1.58 | 2.00 | 0.00 | 9.21 | 0.02 | 0.00 | 1.60 | 2.00 | 0.00 | 9.20 | 0.02 | 0.00 |
| 1.62 | 2.00 | 0.00 | 9.19 | 0.02 | 0.00 | 1.64 | 2.00 | 0.00 | 9.18 | 0.02 | 0.00 |
| 1.66 | 2.00 | 0.00 | 9.17 | 0.02 | 0.00 | 1.68 | 2.00 | 0.00 | 9.16 | 0.02 | 0.00 |
| 1.70 | 2.00 | 0.00 | 9.15 | 0.02 | 0.00 | 1.72 | 2.00 | 0.00 | 9.14 | 0.02 | 0.00 |
| 1.74 | 2.00 | 0.00 | 9.13 | 0.02 | 0.00 | 1.76 | 2.00 | 0.00 | 9.12 | 0.02 | 0.00 |
| 1.78 | 2.00 | 0.00 | 9.11 | 0.02 | 0.00 | 1.80 | 2.00 | 0.00 | 9.10 | 0.02 | 0.00 |
| 1.82 | 2.00 | 0.00 | 9.09 | 0.02 | 0.00 | 1.84 | 2.00 | 0.00 | 9.08 | 0.02 | 0.00 |
| 1.86 | 2.00 | 0.00 | 9.07 | 0.02 | 0.00 | 1.88 | 2.00 | 0.00 | 9.06 | 0.02 | 0.00 |
| 1.90 | 2.00 | 0.00 | 9.05 | 0.02 | 0.00 | 1.92 | 2.00 | 0.00 | 9.04 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 1.94 | 2.00 | 0.00 | 9.03 | 0.02 | 0.00 | 1.96 | 2.00 | 0.00 | 9.02 | 0.02 | 0.00 |
| 1.98 | 2.00 | 0.00 | 9.01 | 0.02 | 0.00 | 2.00 | 2.00 | 0.00 | 9.00 | 0.02 | 0.00 |
| 2.02 | 2.00 | 0.00 | 8.99 | 0.02 | 0.00 | 2.04 | 2.00 | 0.00 | 8.98 | 0.02 | 0.00 |
| 2.06 | 2.00 | 0.00 | 8.97 | 0.02 | 0.00 | 2.08 | 2.00 | 0.00 | 8.96 | 0.02 | 0.00 |
| 2.10 | 2.00 | 0.00 | 8.95 | 0.02 | 0.00 | 2.12 | 2.00 | 0.00 | 8.94 | 0.02 | 0.00 |
| 2.14 | 2.00 | 0.00 | 8.93 | 0.02 | 0.00 | 2.16 | 2.00 | 0.00 | 8.92 | 0.02 | 0.00 |
| 2.18 | 2.00 | 0.00 | 8.91 | 0.02 | 0.00 | 2.20 | 2.00 | 0.00 | 8.90 | 0.02 | 0.00 |
| 2.22 | 2.00 | 0.00 | 8.89 | 0.02 | 0.00 | 2.24 | 2.00 | 0.00 | 8.88 | 0.02 | 0.00 |
| 2.26 | 2.00 | 0.00 | 8.87 | 0.02 | 0.00 | 2.28 | 2.00 | 0.00 | 8.86 | 0.02 | 0.00 |
| 2.30 | 2.00 | 0.00 | 8.85 | 0.02 | 0.00 | 2.32 | 2.00 | 0.00 | 8.84 | 0.02 | 0.00 |
| 2.34 | 2.00 | 0.00 | 8.83 | 0.02 | 0.00 | 2.36 | 2.00 | 0.00 | 8.82 | 0.02 | 0.00 |
| 2.38 | 2.00 | 0.00 | 8.81 | 0.02 | 0.00 | 2.40 | 2.00 | 0.00 | 8.80 | 0.02 | 0.00 |
| 2.42 | 2.00 | 0.00 | 8.79 | 0.02 | 0.00 | 2.44 | 2.00 | 0.00 | 8.78 | 0.02 | 0.00 |
| 2.46 | 2.00 | 0.00 | 8.77 | 0.02 | 0.00 | 2.48 | 2.00 | 0.00 | 8.76 | 0.02 | 0.00 |
| 2.50 | 2.00 | 0.00 | 8.75 | 0.02 | 0.00 | 2.52 | 2.00 | 0.00 | 8.74 | 0.02 | 0.00 |
| 2.54 | 2.00 | 0.00 | 8.73 | 0.02 | 0.00 | 2.56 | 2.00 | 0.00 | 8.72 | 0.02 | 0.00 |
| 2.58 | 2.00 | 0.00 | 8.71 | 0.02 | 0.00 | 2.60 | 2.00 | 0.00 | 8.70 | 0.02 | 0.00 |
| 2.62 | 2.00 | 0.00 | 8.69 | 0.02 | 0.00 | 2.64 | 2.00 | 0.00 | 8.68 | 0.02 | 0.00 |
| 2.66 | 2.00 | 0.00 | 8.67 | 0.02 | 0.00 | 2.68 | 2.00 | 0.00 | 8.66 | 0.02 | 0.00 |
| 2.70 | 2.00 | 0.00 | 8.65 | 0.02 | 0.00 | 2.72 | 2.00 | 0.00 | 8.64 | 0.02 | 0.00 |
| 2.74 | 2.00 | 0.00 | 8.63 | 0.02 | 0.00 | 2.76 | 2.00 | 0.00 | 8.62 | 0.02 | 0.00 |
| 2.78 | 2.00 | 0.00 | 8.61 | 0.02 | 0.00 | 2.80 | 2.00 | 0.00 | 8.60 | 0.02 | 0.00 |
| 2.82 | 2.00 | 0.00 | 8.59 | 0.02 | 0.00 | 2.84 | 2.00 | 0.00 | 8.58 | 0.02 | 0.00 |
| 2.86 | 2.00 | 0.00 | 8.57 | 0.02 | 0.00 | 2.88 | 2.00 | 0.00 | 8.56 | 0.02 | 0.00 |
| 2.90 | 2.00 | 0.00 | 8.55 | 0.02 | 0.00 | 2.92 | 2.00 | 0.00 | 8.54 | 0.02 | 0.00 |
| 2.94 | 2.00 | 0.00 | 8.53 | 0.02 | 0.00 | 2.96 | 2.00 | 0.00 | 8.52 | 0.02 | 0.00 |
| 2.98 | 2.00 | 0.00 | 8.51 | 0.02 | 0.00 | 3.00 | 2.00 | 0.00 | 8.50 | 0.02 | 0.00 |
| 3.02 | 2.00 | 0.00 | 8.49 | 0.02 | 0.00 | 3.04 | 2.00 | 0.00 | 8.48 | 0.02 | 0.00 |
| 3.06 | 2.00 | 0.00 | 8.47 | 0.02 | 0.00 | 3.08 | 2.00 | 0.00 | 8.46 | 0.02 | 0.00 |
| 3.10 | 2.00 | 0.00 | 8.45 | 0.02 | 0.00 | 3.12 | 2.00 | 0.00 | 8.44 | 0.02 | 0.00 |
| 3.14 | 2.00 | 0.00 | 8.43 | 0.02 | 0.00 | 3.16 | 2.00 | 0.00 | 8.42 | 0.02 | 0.00 |
| 3.18 | 2.00 | 0.00 | 8.41 | 0.02 | 0.00 | 3.20 | 2.00 | 0.00 | 8.40 | 0.02 | 0.00 |
| 3.22 | 2.00 | 0.00 | 8.39 | 0.02 | 0.00 | 3.24 | 2.00 | 0.00 | 8.38 | 0.02 | 0.00 |
| 3.26 | 2.00 | 0.00 | 8.37 | 0.02 | 0.00 | 3.28 | 2.00 | 0.00 | 8.36 | 0.02 | 0.00 |
| 3.30 | 2.00 | 0.00 | 8.35 | 0.02 | 0.00 | 3.32 | 2.00 | 0.00 | 8.34 | 0.02 | 0.00 |
| 3.34 | 2.00 | 0.00 | 8.33 | 0.02 | 0.00 | 3.36 | 2.00 | 0.00 | 8.32 | 0.02 | 0.00 |
| 3.38 | 2.00 | 0.00 | 8.31 | 0.02 | 0.00 | 3.40 | 2.00 | 0.00 | 8.30 | 0.02 | 0.00 |
| 3.42 | 2.00 | 0.00 | 8.29 | 0.02 | 0.00 | 3.44 | 2.00 | 0.00 | 8.28 | 0.02 | 0.00 |
| 3.46 | 2.00 | 0.00 | 8.27 | 0.02 | 0.00 | 3.48 | 2.00 | 0.00 | 8.26 | 0.02 | 0.00 |
| 3.50 | 2.00 | 0.00 | 8.25 | 0.02 | 0.00 | 3.52 | 2.00 | 0.00 | 8.24 | 0.02 | 0.00 |
| 3.54 | 2.00 | 0.00 | 8.23 | 0.02 | 0.00 | 3.56 | 2.00 | 0.00 | 8.22 | 0.02 | 0.00 |
| 3.58 | 2.00 | 0.00 | 8.21 | 0.02 | 0.00 | 3.60 | 2.00 | 0.00 | 8.20 | 0.02 | 0.00 |
| 3.62 | 0.82 | 0.18 | 8.19 | 0.02 | 0.03 | 3.64 | 2.00 | 0.00 | 8.18 | 0.02 | 0.00 |
| 3.66 | 2.00 | 0.00 | 8.17 | 0.02 | 0.00 | 3.68 | 2.00 | 0.00 | 8.16 | 0.02 | 0.00 |
| 3.70 | 2.00 | 0.00 | 8.15 | 0.02 | 0.00 | 3.72 | 2.00 | 0.00 | 8.14 | 0.02 | 0.00 |
| 3.74 | 2.00 | 0.00 | 8.13 | 0.02 | 0.00 | 3.76 | 2.00 | 0.00 | 8.12 | 0.02 | 0.00 |
| 3.78 | 2.00 | 0.00 | 8.11 | 0.02 | 0.00 | 3.80 | 0.90 | 0.10 | 8.10 | 0.02 | 0.02 |
| 3.82 | 0.87 | 0.13 | 8.09 | 0.02 | 0.02 | 3.84 | 0.86 | 0.14 | 8.08 | 0.02 | 0.02 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 3.86 | 0.85 | 0.15 | 8.07 | 0.02 | 0.02 | 3.88 | 0.85 | 0.15 | 8.06 | 0.02 | 0.02 |
| 3.90 | 0.88 | 0.12 | 8.05 | 0.02 | 0.02 | 3.92 | 0.90 | 0.10 | 8.04 | 0.02 | 0.02 |
| 3.94 | 2.00 | 0.00 | 8.03 | 0.02 | 0.00 | 3.96 | 2.00 | 0.00 | 8.02 | 0.02 | 0.00 |
| 3.98 | 2.00 | 0.00 | 8.01 | 0.02 | 0.00 | 4.00 | 2.00 | 0.00 | 8.00 | 0.02 | 0.00 |
| 4.02 | 2.00 | 0.00 | 7.99 | 0.02 | 0.00 | 4.04 | 2.00 | 0.00 | 7.98 | 0.02 | 0.00 |
| 4.06 | 2.00 | 0.00 | 7.97 | 0.02 | 0.00 | 4.08 | 2.00 | 0.00 | 7.96 | 0.02 | 0.00 |
| 4.10 | 2.00 | 0.00 | 7.95 | 0.02 | 0.00 | 4.12 | 2.00 | 0.00 | 7.94 | 0.02 | 0.00 |
| 4.14 | 2.00 | 0.00 | 7.93 | 0.02 | 0.00 | 4.16 | 2.00 | 0.00 | 7.92 | 0.02 | 0.00 |
| 4.18 | 2.00 | 0.00 | 7.91 | 0.02 | 0.00 | 4.20 | 2.00 | 0.00 | 7.90 | 0.02 | 0.00 |
| 4.22 | 2.00 | 0.00 | 7.89 | 0.02 | 0.00 | 4.24 | 0.88 | 0.12 | 7.88 | 0.02 | 0.02 |
| 4.26 | 0.90 | 0.10 | 7.87 | 0.02 | 0.02 | 4.28 | 0.93 | 0.07 | 7.86 | 0.02 | 0.01 |
| 4.30 | 0.95 | 0.05 | 7.85 | 0.02 | 0.01 | 4.32 | 0.96 | 0.04 | 7.84 | 0.02 | 0.01 |
| 4.34 | 0.98 | 0.02 | 7.83 | 0.02 | 0.00 | 4.36 | 1.00 | 0.00 | 7.82 | 0.02 | 0.00 |
| 4.38 | 1.00 | 0.00 | 7.81 | 0.02 | 0.00 | 4.40 | 2.00 | 0.00 | 7.80 | 0.02 | 0.00 |
| 4.42 | 2.00 | 0.00 | 7.79 | 0.02 | 0.00 | 4.44 | 2.00 | 0.00 | 7.78 | 0.02 | 0.00 |
| 4.46 | 2.00 | 0.00 | 7.77 | 0.02 | 0.00 | 4.48 | 2.00 | 0.00 | 7.76 | 0.02 | 0.00 |
| 4.50 | 2.00 | 0.00 | 7.75 | 0.02 | 0.00 | 4.52 | 2.00 | 0.00 | 7.74 | 0.02 | 0.00 |
| 4.54 | 2.00 | 0.00 | 7.73 | 0.02 | 0.00 | 4.56 | 0.91 | 0.09 | 7.72 | 0.02 | 0.01 |
| 4.58 | 0.97 | 0.03 | 7.71 | 0.02 | 0.01 | 4.60 | 2.00 | 0.00 | 7.70 | 0.02 | 0.00 |
| 4.62 | 2.00 | 0.00 | 7.69 | 0.02 | 0.00 | 4.64 | 2.00 | 0.00 | 7.68 | 0.02 | 0.00 |
| 4.66 | 2.00 | 0.00 | 7.67 | 0.02 | 0.00 | 4.68 | 2.00 | 0.00 | 7.66 | 0.02 | 0.00 |
| 4.70 | 0.89 | 0.11 | 7.65 | 0.02 | 0.02 | 4.72 | 0.89 | 0.11 | 7.64 | 0.02 | 0.02 |
| 4.74 | 0.84 | 0.16 | 7.63 | 0.02 | 0.02 | 4.76 | 1.00 | 0.00 | 7.62 | 0.02 | 0.00 |
| 4.78 | 1.03 | 0.00 | 7.61 | 0.02 | 0.00 | 4.80 | 1.06 | 0.00 | 7.60 | 0.02 | 0.00 |
| 4.82 | 1.09 | 0.00 | 7.59 | 0.02 | 0.00 | 4.84 | 1.12 | 0.00 | 7.58 | 0.02 | 0.00 |
| 4.86 | 1.10 | 0.00 | 7.57 | 0.02 | 0.00 | 4.88 | 1.04 | 0.00 | 7.56 | 0.02 | 0.00 |
| 4.90 | 1.01 | 0.00 | 7.55 | 0.02 | 0.00 | 4.92 | 2.00 | 0.00 | 7.54 | 0.02 | 0.00 |
| 4.94 | 2.00 | 0.00 | 7.53 | 0.02 | 0.00 | 4.96 | 2.00 | 0.00 | 7.52 | 0.02 | 0.00 |
| 4.98 | 2.00 | 0.00 | 7.51 | 0.02 | 0.00 | 5.00 | 0.96 | 0.04 | 7.50 | 0.02 | 0.01 |
| 5.02 | 0.93 | 0.07 | 7.49 | 0.02 | 0.01 | 5.04 | 0.95 | 0.05 | 7.48 | 0.02 | 0.01 |
| 5.06 | 1.01 | 0.00 | 7.47 | 0.02 | 0.00 | 5.08 | 1.05 | 0.00 | 7.46 | 0.02 | 0.00 |
| 5.10 | 1.04 | 0.00 | 7.45 | 0.02 | 0.00 | 5.12 | 0.99 | 0.01 | 7.44 | 0.02 | 0.00 |
| 5.14 | 0.95 | 0.05 | 7.43 | 0.02 | 0.01 | 5.16 | 0.96 | 0.04 | 7.42 | 0.02 | 0.01 |
| 5.18 | 1.02 | 0.00 | 7.41 | 0.02 | 0.00 | 5.20 | 1.09 | 0.00 | 7.40 | 0.02 | 0.00 |
| 5.22 | 1.14 | 0.00 | 7.39 | 0.02 | 0.00 | 5.24 | 1.14 | 0.00 | 7.38 | 0.02 | 0.00 |
| 5.26 | 1.14 | 0.00 | 7.37 | 0.02 | 0.00 | 5.28 | 1.13 | 0.00 | 7.36 | 0.02 | 0.00 |
| 5.30 | 1.12 | 0.00 | 7.35 | 0.02 | 0.00 | 5.32 | 1.10 | 0.00 | 7.34 | 0.02 | 0.00 |
| 5.34 | 1.10 | 0.00 | 7.33 | 0.02 | 0.00 | 5.36 | 1.12 | 0.00 | 7.32 | 0.02 | 0.00 |
| 5.38 | 1.15 | 0.00 | 7.31 | 0.02 | 0.00 | 5.40 | 1.18 | 0.00 | 7.30 | 0.02 | 0.00 |
| 5.42 | 1.20 | 0.00 | 7.29 | 0.02 | 0.00 | 5.44 | 2.00 | 0.00 | 7.28 | 0.02 | 0.00 |
| 5.46 | 2.00 | 0.00 | 7.27 | 0.02 | 0.00 | 5.48 | 1.02 | 0.00 | 7.26 | 0.02 | 0.00 |
| 5.50 | 0.94 | 0.06 | 7.25 | 0.02 | 0.01 | 5.52 | 0.92 | 0.08 | 7.24 | 0.02 | 0.01 |
| 5.54 | 0.93 | 0.07 | 7.23 | 0.02 | 0.01 | 5.56 | 0.97 | 0.03 | 7.22 | 0.02 | 0.00 |
| 5.58 | 1.01 | 0.00 | 7.21 | 0.02 | 0.00 | 5.60 | 1.06 | 0.00 | 7.20 | 0.02 | 0.00 |
| 5.62 | 1.11 | 0.00 | 7.19 | 0.02 | 0.00 | 5.64 | 1.14 | 0.00 | 7.18 | 0.02 | 0.00 |
| 5.66 | 1.10 | 0.00 | 7.17 | 0.02 | 0.00 | 5.68 | 1.02 | 0.00 | 7.16 | 0.02 | 0.00 |
| 5.70 | 0.97 | 0.03 | 7.15 | 0.02 | 0.00 | 5.72 | 0.97 | 0.03 | 7.14 | 0.02 | 0.00 |
| 5.74 | 1.00 | 0.00 | 7.13 | 0.02 | 0.00 | 5.76 | 1.04 | 0.00 | 7.12 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 5.78 | 1.09 | 0.00 | 7.11 | 0.02 | 0.00 | 5.80 | 1.13 | 0.00 | 7.10 | 0.02 | 0.00 |
| 5.82 | 1.14 | 0.00 | 7.09 | 0.02 | 0.00 | 5.84 | 1.14 | 0.00 | 7.08 | 0.02 | 0.00 |
| 5.86 | 1.16 | 0.00 | 7.07 | 0.02 | 0.00 | 5.88 | 1.22 | 0.00 | 7.06 | 0.02 | 0.00 |
| 5.90 | 1.30 | 0.00 | 7.05 | 0.02 | 0.00 | 5.92 | 1.36 | 0.00 | 7.04 | 0.02 | 0.00 |
| 5.94 | 1.41 | 0.00 | 7.03 | 0.02 | 0.00 | 5.96 | 1.47 | 0.00 | 7.02 | 0.02 | 0.00 |
| 5.98 | 1.50 | 0.00 | 7.01 | 0.02 | 0.00 | 6.00 | 1.49 | 0.00 | 7.00 | 0.02 | 0.00 |
| 6.02 | 1.45 | 0.00 | 6.99 | 0.02 | 0.00 | 6.04 | 1.42 | 0.00 | 6.98 | 0.02 | 0.00 |
| 6.06 | 1.40 | 0.00 | 6.97 | 0.02 | 0.00 | 6.08 | 1.37 | 0.00 | 6.96 | 0.02 | 0.00 |
| 6.10 | 1.35 | 0.00 | 6.95 | 0.02 | 0.00 | 6.12 | 1.32 | 0.00 | 6.94 | 0.02 | 0.00 |
| 6.14 | 1.29 | 0.00 | 6.93 | 0.02 | 0.00 | 6.16 | 1.27 | 0.00 | 6.92 | 0.02 | 0.00 |
| 6.18 | 1.26 | 0.00 | 6.91 | 0.02 | 0.00 | 6.20 | 1.26 | 0.00 | 6.90 | 0.02 | 0.00 |
| 6.22 | 1.27 | 0.00 | 6.89 | 0.02 | 0.00 | 6.24 | 1.27 | 0.00 | 6.88 | 0.02 | 0.00 |
| 6.26 | 1.28 | 0.00 | 6.87 | 0.02 | 0.00 | 6.28 | 1.28 | 0.00 | 6.86 | 0.02 | 0.00 |
| 6.30 | 1.28 | 0.00 | 6.85 | 0.02 | 0.00 | 6.32 | 1.29 | 0.00 | 6.84 | 0.02 | 0.00 |
| 6.34 | 1.30 | 0.00 | 6.83 | 0.02 | 0.00 | 6.36 | 1.30 | 0.00 | 6.82 | 0.02 | 0.00 |
| 6.38 | 1.30 | 0.00 | 6.81 | 0.02 | 0.00 | 6.40 | 1.32 | 0.00 | 6.80 | 0.02 | 0.00 |
| 6.42 | 1.38 | 0.00 | 6.79 | 0.02 | 0.00 | 6.44 | 1.45 | 0.00 | 6.78 | 0.02 | 0.00 |
| 6.46 | 1.51 | 0.00 | 6.77 | 0.02 | 0.00 | 6.48 | 1.53 | 0.00 | 6.76 | 0.02 | 0.00 |
| 6.50 | 1.52 | 0.00 | 6.75 | 0.02 | 0.00 | 6.52 | 1.49 | 0.00 | 6.74 | 0.02 | 0.00 |
| 6.54 | 1.45 | 0.00 | 6.73 | 0.02 | 0.00 | 6.56 | 1.40 | 0.00 | 6.72 | 0.02 | 0.00 |
| 6.58 | 1.34 | 0.00 | 6.71 | 0.02 | 0.00 | 6.60 | 1.29 | 0.00 | 6.70 | 0.02 | 0.00 |
| 6.62 | 1.26 | 0.00 | 6.69 | 0.02 | 0.00 | 6.64 | 1.25 | 0.00 | 6.68 | 0.02 | 0.00 |
| 6.66 | 1.26 | 0.00 | 6.67 | 0.02 | 0.00 | 6.68 | 1.28 | 0.00 | 6.66 | 0.02 | 0.00 |
| 6.70 | 1.29 | 0.00 | 6.65 | 0.02 | 0.00 | 6.72 | 1.29 | 0.00 | 6.64 | 0.02 | 0.00 |
| 6.74 | 1.25 | 0.00 | 6.63 | 0.02 | 0.00 | 6.76 | 1.20 | 0.00 | 6.62 | 0.02 | 0.00 |
| 6.78 | 1.17 | 0.00 | 6.61 | 0.02 | 0.00 | 6.80 | 1.17 | 0.00 | 6.60 | 0.02 | 0.00 |
| 6.82 | 1.18 | 0.00 | 6.59 | 0.02 | 0.00 | 6.84 | 1.19 | 0.00 | 6.58 | 0.02 | 0.00 |
| 6.86 | 1.20 | 0.00 | 6.57 | 0.02 | 0.00 | 6.88 | 1.20 | 0.00 | 6.56 | 0.02 | 0.00 |
| 6.90 | 1.19 | 0.00 | 6.55 | 0.02 | 0.00 | 6.92 | 1.18 | 0.00 | 6.54 | 0.02 | 0.00 |
| 6.94 | 1.16 | 0.00 | 6.53 | 0.02 | 0.00 | 6.96 | 1.18 | 0.00 | 6.52 | 0.02 | 0.00 |
| 6.98 | 1.21 | 0.00 | 6.51 | 0.02 | 0.00 | 7.00 | 1.24 | 0.00 | 6.50 | 0.02 | 0.00 |
| 7.02 | 1.27 | 0.00 | 6.49 | 0.02 | 0.00 | 7.04 | 1.30 | 0.00 | 6.48 | 0.02 | 0.00 |
| 7.06 | 1.34 | 0.00 | 6.47 | 0.02 | 0.00 | 7.08 | 1.38 | 0.00 | 6.46 | 0.02 | 0.00 |
| 7.10 | 1.41 | 0.00 | 6.45 | 0.02 | 0.00 | 7.12 | 1.43 | 0.00 | 6.44 | 0.02 | 0.00 |
| 7.14 | 1.43 | 0.00 | 6.43 | 0.02 | 0.00 | 7.16 | 1.43 | 0.00 | 6.42 | 0.02 | 0.00 |
| 7.18 | 1.43 | 0.00 | 6.41 | 0.02 | 0.00 | 7.20 | 1.43 | 0.00 | 6.40 | 0.02 | 0.00 |
| 7.22 | 1.45 | 0.00 | 6.39 | 0.02 | 0.00 | 7.24 | 1.47 | 0.00 | 6.38 | 0.02 | 0.00 |
| 7.26 | 1.51 | 0.00 | 6.37 | 0.02 | 0.00 | 7.28 | 1.54 | 0.00 | 6.36 | 0.02 | 0.00 |
| 7.30 | 1.56 | 0.00 | 6.35 | 0.02 | 0.00 | 7.32 | 1.58 | 0.00 | 6.34 | 0.02 | 0.00 |
| 7.34 | 1.61 | 0.00 | 6.33 | 0.02 | 0.00 | 7.36 | 1.64 | 0.00 | 6.32 | 0.02 | 0.00 |
| 7.38 | 1.68 | 0.00 | 6.31 | 0.02 | 0.00 | 7.40 | 1.73 | 0.00 | 6.30 | 0.02 | 0.00 |
| 7.42 | 1.77 | 0.00 | 6.29 | 0.02 | 0.00 | 7.44 | 1.79 | 0.00 | 6.28 | 0.02 | 0.00 |
| 7.46 | 1.78 | 0.00 | 6.27 | 0.02 | 0.00 | 7.48 | 1.74 | 0.00 | 6.26 | 0.02 | 0.00 |
| 7.50 | 1.68 | 0.00 | 6.25 | 0.02 | 0.00 | 7.52 | 1.61 | 0.00 | 6.24 | 0.02 | 0.00 |
| 7.54 | 1.54 | 0.00 | 6.23 | 0.02 | 0.00 | 7.56 | 1.47 | 0.00 | 6.22 | 0.02 | 0.00 |
| 7.58 | 1.41 | 0.00 | 6.21 | 0.02 | 0.00 | 7.60 | 1.37 | 0.00 | 6.20 | 0.02 | 0.00 |
| 7.62 | 1.34 | 0.00 | 6.19 | 0.02 | 0.00 | 7.64 | 1.31 | 0.00 | 6.18 | 0.02 | 0.00 |
| 7.66 | 1.29 | 0.00 | 6.17 | 0.02 | 0.00 | 7.68 | 1.27 | 0.00 | 6.16 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 7.70 | 1.26 | 0.00 | 6.15 | 0.02 | 0.00 | 7.72 | 1.26 | 0.00 | 6.14 | 0.02 | 0.00 |
| 7.74 | 1.25 | 0.00 | 6.13 | 0.02 | 0.00 | 7.76 | 1.25 | 0.00 | 6.12 | 0.02 | 0.00 |
| 7.78 | 1.25 | 0.00 | 6.11 | 0.02 | 0.00 | 7.80 | 1.26 | 0.00 | 6.10 | 0.02 | 0.00 |
| 7.82 | 1.27 | 0.00 | 6.09 | 0.02 | 0.00 | 7.84 | 1.27 | 0.00 | 6.08 | 0.02 | 0.00 |
| 7.86 | 1.27 | 0.00 | 6.07 | 0.02 | 0.00 | 7.88 | 1.27 | 0.00 | 6.06 | 0.02 | 0.00 |
| 7.90 | 1.28 | 0.00 | 6.05 | 0.02 | 0.00 | 7.92 | 1.29 | 0.00 | 6.04 | 0.02 | 0.00 |
| 7.94 | 1.30 | 0.00 | 6.03 | 0.02 | 0.00 | 7.96 | 1.31 | 0.00 | 6.02 | 0.02 | 0.00 |
| 7.98 | 1.33 | 0.00 | 6.01 | 0.02 | 0.00 | 8.00 | 1.36 | 0.00 | 6.00 | 0.02 | 0.00 |
| 8.02 | 1.40 | 0.00 | 5.99 | 0.02 | 0.00 | 8.04 | 1.45 | 0.00 | 5.98 | 0.02 | 0.00 |
| 8.06 | 1.53 | 0.00 | 5.97 | 0.02 | 0.00 | 8.08 | 1.44 | 0.00 | 5.96 | 0.02 | 0.00 |
| 8.10 | 1.50 | 0.00 | 5.95 | 0.02 | 0.00 | 8.12 | 1.51 | 0.00 | 5.94 | 0.02 | 0.00 |
| 8.14 | 1.47 | 0.00 | 5.93 | 0.02 | 0.00 | 8.16 | 1.43 | 0.00 | 5.92 | 0.02 | 0.00 |
| 8.18 | 1.39 | 0.00 | 5.91 | 0.02 | 0.00 | 8.20 | 1.36 | 0.00 | 5.90 | 0.02 | 0.00 |
| 8.22 | 1.33 | 0.00 | 5.89 | 0.02 | 0.00 | 8.24 | 1.32 | 0.00 | 5.88 | 0.02 | 0.00 |
| 8.26 | 1.30 | 0.00 | 5.87 | 0.02 | 0.00 | 8.28 | 1.46 | 0.00 | 5.86 | 0.02 | 0.00 |
| 8.30 | 1.42 | 0.00 | 5.85 | 0.02 | 0.00 | 8.32 | 1.39 | 0.00 | 5.84 | 0.02 | 0.00 |
| 8.34 | 1.39 | 0.00 | 5.83 | 0.02 | 0.00 | 8.36 | 1.25 | 0.00 | 5.82 | 0.02 | 0.00 |
| 8.38 | 1.36 | 0.00 | 5.81 | 0.02 | 0.00 | 8.40 | 1.50 | 0.00 | 5.80 | 0.02 | 0.00 |
| 8.42 | 1.61 | 0.00 | 5.79 | 0.02 | 0.00 | 8.44 | 1.61 | 0.00 | 5.78 | 0.02 | 0.00 |
| 8.46 | 1.69 | 0.00 | 5.77 | 0.02 | 0.00 | 8.48 | 1.60 | 0.00 | 5.76 | 0.02 | 0.00 |
| 8.50 | 1.52 | 0.00 | 5.75 | 0.02 | 0.00 | 8.52 | 1.46 | 0.00 | 5.74 | 0.02 | 0.00 |
| 8.54 | 1.43 | 0.00 | 5.73 | 0.02 | 0.00 | 8.56 | 1.41 | 0.00 | 5.72 | 0.02 | 0.00 |
| 8.58 | 1.41 | 0.00 | 5.71 | 0.02 | 0.00 | 8.60 | 1.43 | 0.00 | 5.70 | 0.02 | 0.00 |
| 8.62 | 1.50 | 0.00 | 5.69 | 0.02 | 0.00 | 8.64 | 1.48 | 0.00 | 5.68 | 0.02 | 0.00 |
| 8.66 | 1.64 | 0.00 | 5.67 | 0.02 | 0.00 | 8.68 | 1.69 | 0.00 | 5.66 | 0.02 | 0.00 |
| 8.70 | 1.60 | 0.00 | 5.65 | 0.02 | 0.00 | 8.72 | 1.46 | 0.00 | 5.64 | 0.02 | 0.00 |
| 8.74 | 1.51 | 0.00 | 5.63 | 0.02 | 0.00 | 8.76 | 1.41 | 0.00 | 5.62 | 0.02 | 0.00 |
| 8.78 | 1.30 | 0.00 | 5.61 | 0.02 | 0.00 | 8.80 | 1.20 | 0.00 | 5.60 | 0.02 | 0.00 |
| 8.82 | 1.13 | 0.00 | 5.59 | 0.02 | 0.00 | 8.84 | 0.92 | 0.08 | 5.58 | 0.02 | 0.01 |
| 8.86 | 0.90 | 0.10 | 5.57 | 0.02 | 0.01 | 8.88 | 0.89 | 0.11 | 5.56 | 0.02 | 0.01 |
| 8.90 | 0.89 | 0.11 | 5.55 | 0.02 | 0.01 | 8.92 | 0.88 | 0.12 | 5.54 | 0.02 | 0.01 |
| 8.94 | 0.87 | 0.13 | 5.53 | 0.02 | 0.01 | 8.96 | 0.85 | 0.15 | 5.52 | 0.02 | 0.02 |
| 8.98 | 0.83 | 0.17 | 5.51 | 0.02 | 0.02 | 9.00 | 0.96 | 0.04 | 5.50 | 0.02 | 0.00 |
| 9.02 | 1.01 | 0.00 | 5.49 | 0.02 | 0.00 | 9.04 | 1.09 | 0.00 | 5.48 | 0.02 | 0.00 |
| 9.06 | 1.16 | 0.00 | 5.47 | 0.02 | 0.00 | 9.08 | 2.00 | 0.00 | 5.46 | 0.02 | 0.00 |
| 9.10 | 2.00 | 0.00 | 5.45 | 0.02 | 0.00 | 9.12 | 2.00 | 0.00 | 5.44 | 0.02 | 0.00 |
| 9.14 | 2.00 | 0.00 | 5.43 | 0.02 | 0.00 | 9.16 | 2.00 | 0.00 | 5.42 | 0.02 | 0.00 |
| 9.18 | 2.00 | 0.00 | 5.41 | 0.02 | 0.00 | 9.20 | 2.00 | 0.00 | 5.40 | 0.02 | 0.00 |
| 9.22 | 2.00 | 0.00 | 5.39 | 0.02 | 0.00 | 9.24 | 2.00 | 0.00 | 5.38 | 0.02 | 0.00 |
| 9.26 | 2.00 | 0.00 | 5.37 | 0.02 | 0.00 | 9.28 | 2.00 | 0.00 | 5.36 | 0.02 | 0.00 |
| 9.30 | 2.00 | 0.00 | 5.35 | 0.02 | 0.00 | 9.32 | 2.00 | 0.00 | 5.34 | 0.02 | 0.00 |
| 9.34 | 2.00 | 0.00 | 5.33 | 0.02 | 0.00 | 9.36 | 2.00 | 0.00 | 5.32 | 0.02 | 0.00 |
| 9.38 | 2.00 | 0.00 | 5.31 | 0.02 | 0.00 | 9.40 | 2.00 | 0.00 | 5.30 | 0.02 | 0.00 |
| 9.42 | 2.00 | 0.00 | 5.29 | 0.02 | 0.00 | 9.44 | 2.00 | 0.00 | 5.28 | 0.02 | 0.00 |
| 9.46 | 2.00 | 0.00 | 5.27 | 0.02 | 0.00 | 9.48 | 2.00 | 0.00 | 5.26 | 0.02 | 0.00 |
| 9.50 | 2.00 | 0.00 | 5.25 | 0.02 | 0.00 | 9.52 | 2.00 | 0.00 | 5.24 | 0.02 | 0.00 |
| 9.54 | 2.00 | 0.00 | 5.23 | 0.02 | 0.00 | 9.56 | 2.00 | 0.00 | 5.22 | 0.02 | 0.00 |
| 9.58 | 2.00 | 0.00 | 5.21 | 0.02 | 0.00 | 9.60 | 2.00 | 0.00 | 5.20 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 9.62 | 2.00 | 0.00 | 5.19 | 0.02 | 0.00 | 9.64 | 2.00 | 0.00 | 5.18 | 0.02 | 0.00 |
| 9.66 | 2.00 | 0.00 | 5.17 | 0.02 | 0.00 | 9.68 | 2.00 | 0.00 | 5.16 | 0.02 | 0.00 |
| 9.70 | 2.00 | 0.00 | 5.15 | 0.02 | 0.00 | 9.72 | 2.00 | 0.00 | 5.14 | 0.02 | 0.00 |
| 9.74 | 2.00 | 0.00 | 5.13 | 0.02 | 0.00 | 9.76 | 2.00 | 0.00 | 5.12 | 0.02 | 0.00 |
| 9.78 | 2.00 | 0.00 | 5.11 | 0.02 | 0.00 | 9.80 | 2.00 | 0.00 | 5.10 | 0.02 | 0.00 |
| 9.82 | 2.00 | 0.00 | 5.09 | 0.02 | 0.00 | 9.84 | 2.00 | 0.00 | 5.08 | 0.02 | 0.00 |
| 9.86 | 2.00 | 0.00 | 5.07 | 0.02 | 0.00 | 9.88 | 2.00 | 0.00 | 5.06 | 0.02 | 0.00 |
| 9.90 | 2.00 | 0.00 | 5.05 | 0.02 | 0.00 | 9.92 | 2.00 | 0.00 | 5.04 | 0.02 | 0.00 |
| 9.94 | 2.00 | 0.00 | 5.03 | 0.02 | 0.00 | 9.96 | 2.00 | 0.00 | 5.02 | 0.02 | 0.00 |
| 9.98 | 2.00 | 0.00 | 5.01 | 0.02 | 0.00 | 10.00 | 2.00 | 0.00 | 5.00 | 0.02 | 0.00 |
| 10.02 | 2.00 | 0.00 | 4.99 | 0.02 | 0.00 | 10.04 | 2.00 | 0.00 | 4.98 | 0.02 | 0.00 |
| 10.06 | 2.00 | 0.00 | 4.97 | 0.02 | 0.00 | 10.08 | 2.00 | 0.00 | 4.96 | 0.02 | 0.00 |
| 10.10 | 2.00 | 0.00 | 4.95 | 0.02 | 0.00 | 10.12 | 2.00 | 0.00 | 4.94 | 0.02 | 0.00 |
| 10.14 | 1.02 | 0.00 | 4.93 | 0.02 | 0.00 | 10.16 | 1.08 | 0.00 | 4.92 | 0.02 | 0.00 |
| 10.18 | 1.13 | 0.00 | 4.91 | 0.02 | 0.00 | 10.20 | 1.15 | 0.00 | 4.90 | 0.02 | 0.00 |
| 10.22 | 1.16 | 0.00 | 4.89 | 0.02 | 0.00 | 10.24 | 1.17 | 0.00 | 4.88 | 0.02 | 0.00 |
| 10.26 | 1.17 | 0.00 | 4.87 | 0.02 | 0.00 | 10.28 | 1.12 | 0.00 | 4.86 | 0.02 | 0.00 |
| 10.30 | 1.08 | 0.00 | 4.85 | 0.02 | 0.00 | 10.32 | 1.05 | 0.00 | 4.84 | 0.02 | 0.00 |
| 10.34 | 1.03 | 0.00 | 4.83 | 0.02 | 0.00 | 10.36 | 1.05 | 0.00 | 4.82 | 0.02 | 0.00 |
| 10.38 | 1.10 | 0.00 | 4.81 | 0.02 | 0.00 | 10.40 | 1.16 | 0.00 | 4.80 | 0.02 | 0.00 |
| 10.42 | 1.19 | 0.00 | 4.79 | 0.02 | 0.00 | 10.44 | 1.18 | 0.00 | 4.78 | 0.02 | 0.00 |
| 10.46 | 1.19 | 0.00 | 4.77 | 0.02 | 0.00 | 10.48 | 1.23 | 0.00 | 4.76 | 0.02 | 0.00 |
| 10.50 | 1.31 | 0.00 | 4.75 | 0.02 | 0.00 | 10.52 | 1.37 | 0.00 | 4.74 | 0.02 | 0.00 |
| 10.54 | 1.34 | 0.00 | 4.73 | 0.02 | 0.00 | 10.56 | 1.26 | 0.00 | 4.72 | 0.02 | 0.00 |
| 10.58 | 1.19 | 0.00 | 4.71 | 0.02 | 0.00 | 10.60 | 1.17 | 0.00 | 4.70 | 0.02 | 0.00 |
| 10.62 | 1.17 | 0.00 | 4.69 | 0.02 | 0.00 | 10.64 | 1.19 | 0.00 | 4.68 | 0.02 | 0.00 |
| 10.66 | 1.22 | 0.00 | 4.67 | 0.02 | 0.00 | 10.68 | 1.26 | 0.00 | 4.66 | 0.02 | 0.00 |
| 10.70 | 1.31 | 0.00 | 4.65 | 0.02 | 0.00 | 10.72 | 1.38 | 0.00 | 4.64 | 0.02 | 0.00 |
| 10.74 | 1.45 | 0.00 | 4.63 | 0.02 | 0.00 | 10.76 | 1.54 | 0.00 | 4.62 | 0.02 | 0.00 |
| 10.78 | 2.00 | 0.00 | 4.61 | 0.02 | 0.00 | 10.80 | 2.00 | 0.00 | 4.60 | 0.02 | 0.00 |
| 10.82 | 2.00 | 0.00 | 4.59 | 0.02 | 0.00 | 10.84 | 2.00 | 0.00 | 4.58 | 0.02 | 0.00 |
| 10.86 | 2.00 | 0.00 | 4.57 | 0.02 | 0.00 | 10.88 | 2.00 | 0.00 | 4.56 | 0.02 | 0.00 |
| 10.90 | 1.15 | 0.00 | 4.55 | 0.02 | 0.00 | 10.92 | 1.12 | 0.00 | 4.54 | 0.02 | 0.00 |
| 10.94 | 1.13 | 0.00 | 4.53 | 0.02 | 0.00 | 10.96 | 1.16 | 0.00 | 4.52 | 0.02 | 0.00 |
| 10.98 | 1.17 | 0.00 | 4.51 | 0.02 | 0.00 | 11.00 | 1.13 | 0.00 | 4.50 | 0.02 | 0.00 |
| 11.02 | 1.12 | 0.00 | 4.49 | 0.02 | 0.00 | 11.04 | 1.16 | 0.00 | 4.48 | 0.02 | 0.00 |
| 11.06 | 1.22 | 0.00 | 4.47 | 0.02 | 0.00 | 11.08 | 1.29 | 0.00 | 4.46 | 0.02 | 0.00 |
| 11.10 | 1.35 | 0.00 | 4.45 | 0.02 | 0.00 | 11.12 | 2.00 | 0.00 | 4.44 | 0.02 | 0.00 |
| 11.14 | 2.00 | 0.00 | 4.43 | 0.02 | 0.00 | 11.16 | 2.00 | 0.00 | 4.42 | 0.02 | 0.00 |
| 11.18 | 2.00 | 0.00 | 4.41 | 0.02 | 0.00 | 11.20 | 2.00 | 0.00 | 4.40 | 0.02 | 0.00 |
| 11.22 | 2.00 | 0.00 | 4.39 | 0.02 | 0.00 | 11.24 | 2.00 | 0.00 | 4.38 | 0.02 | 0.00 |
| 11.26 | 2.00 | 0.00 | 4.37 | 0.02 | 0.00 | 11.28 | 2.00 | 0.00 | 4.36 | 0.02 | 0.00 |
| 11.30 | 2.00 | 0.00 | 4.35 | 0.02 | 0.00 | 11.32 | 2.00 | 0.00 | 4.34 | 0.02 | 0.00 |
| 11.34 | 2.00 | 0.00 | 4.33 | 0.02 | 0.00 | 11.36 | 2.00 | 0.00 | 4.32 | 0.02 | 0.00 |
| 11.38 | 2.00 | 0.00 | 4.31 | 0.02 | 0.00 | 11.40 | 2.00 | 0.00 | 4.30 | 0.02 | 0.00 |
| 11.42 | 2.00 | 0.00 | 4.29 | 0.02 | 0.00 | 11.44 | 2.00 | 0.00 | 4.28 | 0.02 | 0.00 |
| 11.46 | 2.00 | 0.00 | 4.27 | 0.02 | 0.00 | 11.48 | 2.00 | 0.00 | 4.26 | 0.02 | 0.00 |
| 11.50 | 2.00 | 0.00 | 4.25 | 0.02 | 0.00 | 11.52 | 2.00 | 0.00 | 4.24 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 11.54 | 2.00 | 0.00 | 4.23 | 0.02 | 0.00 | 11.56 | 2.00 | 0.00 | 4.22 | 0.02 | 0.00 |
| 11.58 | 2.00 | 0.00 | 4.21 | 0.02 | 0.00 | 11.60 | 2.00 | 0.00 | 4.20 | 0.02 | 0.00 |
| 11.62 | 2.00 | 0.00 | 4.19 | 0.02 | 0.00 | 11.64 | 2.00 | 0.00 | 4.18 | 0.02 | 0.00 |
| 11.66 | 2.00 | 0.00 | 4.17 | 0.02 | 0.00 | 11.68 | 2.00 | 0.00 | 4.16 | 0.02 | 0.00 |
| 11.70 | 2.00 | 0.00 | 4.15 | 0.02 | 0.00 | 11.72 | 2.00 | 0.00 | 4.14 | 0.02 | 0.00 |
| 11.74 | 2.00 | 0.00 | 4.13 | 0.02 | 0.00 | 11.76 | 2.00 | 0.00 | 4.12 | 0.02 | 0.00 |
| 11.78 | 2.00 | 0.00 | 4.11 | 0.02 | 0.00 | 11.80 | 2.00 | 0.00 | 4.10 | 0.02 | 0.00 |
| 11.82 | 2.00 | 0.00 | 4.09 | 0.02 | 0.00 | 11.84 | 2.00 | 0.00 | 4.08 | 0.02 | 0.00 |
| 11.86 | 2.00 | 0.00 | 4.07 | 0.02 | 0.00 | 11.88 | 2.00 | 0.00 | 4.06 | 0.02 | 0.00 |
| 11.90 | 2.00 | 0.00 | 4.05 | 0.02 | 0.00 | 11.92 | 2.00 | 0.00 | 4.04 | 0.02 | 0.00 |
| 11.94 | 1.11 | 0.00 | 4.03 | 0.02 | 0.00 | 11.96 | 1.15 | 0.00 | 4.02 | 0.02 | 0.00 |
| 11.98 | 2.00 | 0.00 | 4.01 | 0.02 | 0.00 | 12.00 | 2.00 | 0.00 | 4.00 | 0.02 | 0.00 |
| 12.02 | 2.00 | 0.00 | 3.99 | 0.02 | 0.00 | 12.04 | 2.00 | 0.00 | 3.98 | 0.02 | 0.00 |
| 12.06 | 2.00 | 0.00 | 3.97 | 0.02 | 0.00 | 12.08 | 2.00 | 0.00 | 3.96 | 0.02 | 0.00 |
| 12.10 | 2.00 | 0.00 | 3.95 | 0.02 | 0.00 | 12.12 | 2.00 | 0.00 | 3.94 | 0.02 | 0.00 |
| 12.14 | 2.00 | 0.00 | 3.93 | 0.02 | 0.00 | 12.16 | 2.00 | 0.00 | 3.92 | 0.02 | 0.00 |
| 12.18 | 2.00 | 0.00 | 3.91 | 0.02 | 0.00 | 12.20 | 2.00 | 0.00 | 3.90 | 0.02 | 0.00 |
| 12.22 | 2.00 | 0.00 | 3.89 | 0.02 | 0.00 | 12.24 | 2.00 | 0.00 | 3.88 | 0.02 | 0.00 |
| 12.26 | 2.00 | 0.00 | 3.87 | 0.02 | 0.00 | 12.28 | 2.00 | 0.00 | 3.86 | 0.02 | 0.00 |
| 12.30 | 2.00 | 0.00 | 3.85 | 0.02 | 0.00 | 12.32 | 2.00 | 0.00 | 3.84 | 0.02 | 0.00 |
| 12.34 | 2.00 | 0.00 | 3.83 | 0.02 | 0.00 | 12.36 | 2.00 | 0.00 | 3.82 | 0.02 | 0.00 |
| 12.38 | 2.00 | 0.00 | 3.81 | 0.02 | 0.00 | 12.40 | 2.00 | 0.00 | 3.80 | 0.02 | 0.00 |
| 12.42 | 2.00 | 0.00 | 3.79 | 0.02 | 0.00 | 12.44 | 2.00 | 0.00 | 3.78 | 0.02 | 0.00 |
| 12.46 | 2.00 | 0.00 | 3.77 | 0.02 | 0.00 | 12.48 | 2.00 | 0.00 | 3.76 | 0.02 | 0.00 |
| 12.50 | 2.00 | 0.00 | 3.75 | 0.02 | 0.00 | 12.52 | 2.00 | 0.00 | 3.74 | 0.02 | 0.00 |
| 12.54 | 2.00 | 0.00 | 3.73 | 0.02 | 0.00 | 12.56 | 2.00 | 0.00 | 3.72 | 0.02 | 0.00 |
| 12.58 | 2.00 | 0.00 | 3.71 | 0.02 | 0.00 | 12.60 | 2.00 | 0.00 | 3.70 | 0.02 | 0.00 |
| 12.62 | 2.00 | 0.00 | 3.69 | 0.02 | 0.00 | 12.64 | 2.00 | 0.00 | 3.68 | 0.02 | 0.00 |
| 12.66 | 2.00 | 0.00 | 3.67 | 0.02 | 0.00 | 12.68 | 2.00 | 0.00 | 3.66 | 0.02 | 0.00 |
| 12.70 | 2.00 | 0.00 | 3.65 | 0.02 | 0.00 | 12.72 | 2.00 | 0.00 | 3.64 | 0.02 | 0.00 |
| 12.74 | 2.00 | 0.00 | 3.63 | 0.02 | 0.00 | 12.76 | 2.00 | 0.00 | 3.62 | 0.02 | 0.00 |
| 12.78 | 2.00 | 0.00 | 3.61 | 0.02 | 0.00 | 12.80 | 2.00 | 0.00 | 3.60 | 0.02 | 0.00 |
| 12.82 | 2.00 | 0.00 | 3.59 | 0.02 | 0.00 | 12.84 | 2.00 | 0.00 | 3.58 | 0.02 | 0.00 |
| 12.86 | 2.00 | 0.00 | 3.57 | 0.02 | 0.00 | 12.88 | 2.00 | 0.00 | 3.56 | 0.02 | 0.00 |
| 12.90 | 2.00 | 0.00 | 3.55 | 0.02 | 0.00 | 12.92 | 2.00 | 0.00 | 3.54 | 0.02 | 0.00 |
| 12.94 | 2.00 | 0.00 | 3.53 | 0.02 | 0.00 | 12.96 | 2.00 | 0.00 | 3.52 | 0.02 | 0.00 |
| 12.98 | 2.00 | 0.00 | 3.51 | 0.02 | 0.00 | 13.00 | 2.00 | 0.00 | 3.50 | 0.02 | 0.00 |
| 13.02 | 2.00 | 0.00 | 3.49 | 0.02 | 0.00 | 13.04 | 2.00 | 0.00 | 3.48 | 0.02 | 0.00 |
| 13.06 | 2.00 | 0.00 | 3.47 | 0.02 | 0.00 | 13.08 | 1.10 | 0.00 | 3.46 | 0.02 | 0.00 |
| 13.10 | 1.14 | 0.00 | 3.45 | 0.02 | 0.00 | 13.12 | 1.18 | 0.00 | 3.44 | 0.02 | 0.00 |
| 13.14 | 1.19 | 0.00 | 3.43 | 0.02 | 0.00 | 13.16 | 1.18 | 0.00 | 3.42 | 0.02 | 0.00 |
| 13.18 | 1.17 | 0.00 | 3.41 | 0.02 | 0.00 | 13.20 | 1.17 | 0.00 | 3.40 | 0.02 | 0.00 |
| 13.22 | 1.22 | 0.00 | 3.39 | 0.02 | 0.00 | 13.24 | 1.32 | 0.00 | 3.38 | 0.02 | 0.00 |
| 13.26 | 1.47 | 0.00 | 3.37 | 0.02 | 0.00 | 13.28 | 1.57 | 0.00 | 3.36 | 0.02 | 0.00 |
| 13.30 | 1.59 | 0.00 | 3.35 | 0.02 | 0.00 | 13.32 | 1.57 | 0.00 | 3.34 | 0.02 | 0.00 |
| 13.34 | 1.53 | 0.00 | 3.33 | 0.02 | 0.00 | 13.36 | 1.52 | 0.00 | 3.32 | 0.02 | 0.00 |
| 13.38 | 1.56 | 0.00 | 3.31 | 0.02 | 0.00 | 13.40 | 1.67 | 0.00 | 3.30 | 0.02 | 0.00 |
| 13.42 | 1.76 | 0.00 | 3.29 | 0.02 | 0.00 | 13.44 | 1.75 | 0.00 | 3.28 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 13.46 | 1.64 | 0.00 | 3.27 | 0.02 | 0.00 | 13.48 | 2.00 | 0.00 | 3.26 | 0.02 | 0.00 |
| 13.50 | 1.38 | 0.00 | 3.25 | 0.02 | 0.00 | 13.52 | 1.26 | 0.00 | 3.24 | 0.02 | 0.00 |
| 13.54 | 1.35 | 0.00 | 3.23 | 0.02 | 0.00 | 13.56 | 1.58 | 0.00 | 3.22 | 0.02 | 0.00 |
| 13.58 | 1.73 | 0.00 | 3.21 | 0.02 | 0.00 | 13.60 | 1.73 | 0.00 | 3.20 | 0.02 | 0.00 |
| 13.62 | 1.65 | 0.00 | 3.19 | 0.02 | 0.00 | 13.64 | 1.56 | 0.00 | 3.18 | 0.02 | 0.00 |
| 13.66 | 1.48 | 0.00 | 3.17 | 0.02 | 0.00 | 13.68 | 1.42 | 0.00 | 3.16 | 0.02 | 0.00 |
| 13.70 | 1.36 | 0.00 | 3.15 | 0.02 | 0.00 | 13.72 | 1.32 | 0.00 | 3.14 | 0.02 | 0.00 |
| 13.74 | 1.30 | 0.00 | 3.13 | 0.02 | 0.00 | 13.76 | 1.28 | 0.00 | 3.12 | 0.02 | 0.00 |
| 13.78 | 1.26 | 0.00 | 3.11 | 0.02 | 0.00 | 13.80 | 1.26 | 0.00 | 3.10 | 0.02 | 0.00 |
| 13.82 | 1.28 | 0.00 | 3.09 | 0.02 | 0.00 | 13.84 | 1.32 | 0.00 | 3.08 | 0.02 | 0.00 |
| 13.86 | 1.35 | 0.00 | 3.07 | 0.02 | 0.00 | 13.88 | 1.41 | 0.00 | 3.06 | 0.02 | 0.00 |
| 13.90 | 1.39 | 0.00 | 3.05 | 0.02 | 0.00 | 13.92 | 1.39 | 0.00 | 3.04 | 0.02 | 0.00 |
| 13.94 | 1.35 | 0.00 | 3.03 | 0.02 | 0.00 | 13.96 | 1.39 | 0.00 | 3.02 | 0.02 | 0.00 |
| 13.98 | 1.40 | 0.00 | 3.01 | 0.02 | 0.00 | 14.00 | 1.41 | 0.00 | 3.00 | 0.02 | 0.00 |
| 14.02 | 1.39 | 0.00 | 2.99 | 0.02 | 0.00 | 14.04 | 1.38 | 0.00 | 2.98 | 0.02 | 0.00 |
| 14.06 | 1.37 | 0.00 | 2.97 | 0.02 | 0.00 | 14.08 | 1.39 | 0.00 | 2.96 | 0.02 | 0.00 |
| 14.10 | 1.46 | 0.00 | 2.95 | 0.02 | 0.00 | 14.12 | 1.58 | 0.00 | 2.94 | 0.02 | 0.00 |
| 14.14 | 1.68 | 0.00 | 2.93 | 0.02 | 0.00 | 14.16 | 1.65 | 0.00 | 2.92 | 0.02 | 0.00 |
| 14.18 | 1.56 | 0.00 | 2.91 | 0.02 | 0.00 | 14.20 | 1.45 | 0.00 | 2.90 | 0.02 | 0.00 |
| 14.22 | 1.37 | 0.00 | 2.89 | 0.02 | 0.00 | 14.24 | 1.38 | 0.00 | 2.88 | 0.02 | 0.00 |
| 14.26 | 1.53 | 0.00 | 2.87 | 0.02 | 0.00 | 14.28 | 1.74 | 0.00 | 2.86 | 0.02 | 0.00 |
| 14.30 | 1.87 | 0.00 | 2.85 | 0.02 | 0.00 | 14.32 | 1.89 | 0.00 | 2.84 | 0.02 | 0.00 |
| 14.34 | 1.82 | 0.00 | 2.83 | 0.02 | 0.00 | 14.36 | 1.74 | 0.00 | 2.82 | 0.02 | 0.00 |
| 14.38 | 1.70 | 0.00 | 2.81 | 0.02 | 0.00 | 14.40 | 1.67 | 0.00 | 2.80 | 0.02 | 0.00 |
| 14.42 | 1.64 | 0.00 | 2.79 | 0.02 | 0.00 | 14.44 | 1.62 | 0.00 | 2.78 | 0.02 | 0.00 |
| 14.46 | 1.63 | 0.00 | 2.77 | 0.02 | 0.00 | 14.48 | 1.70 | 0.00 | 2.76 | 0.02 | 0.00 |
| 14.50 | 1.78 | 0.00 | 2.75 | 0.02 | 0.00 | 14.52 | 1.80 | 0.00 | 2.74 | 0.02 | 0.00 |
| 14.54 | 1.74 | 0.00 | 2.73 | 0.02 | 0.00 | 14.56 | 1.63 | 0.00 | 2.72 | 0.02 | 0.00 |
| 14.58 | 1.54 | 0.00 | 2.71 | 0.02 | 0.00 | 14.60 | 1.45 | 0.00 | 2.70 | 0.02 | 0.00 |
| 14.62 | 1.37 | 0.00 | 2.69 | 0.02 | 0.00 | 14.64 | 1.32 | 0.00 | 2.68 | 0.02 | 0.00 |
| 14.66 | 1.30 | 0.00 | 2.67 | 0.02 | 0.00 | 14.68 | 1.29 | 0.00 | 2.66 | 0.02 | 0.00 |
| 14.70 | 1.27 | 0.00 | 2.65 | 0.02 | 0.00 | 14.72 | 1.23 | 0.00 | 2.64 | 0.02 | 0.00 |
| 14.74 | 1.23 | 0.00 | 2.63 | 0.02 | 0.00 | 14.76 | 1.28 | 0.00 | 2.62 | 0.02 | 0.00 |
| 14.78 | 1.35 | 0.00 | 2.61 | 0.02 | 0.00 | 14.80 | 1.39 | 0.00 | 2.60 | 0.02 | 0.00 |
| 14.82 | 1.37 | 0.00 | 2.59 | 0.02 | 0.00 | 14.84 | 1.34 | 0.00 | 2.58 | 0.02 | 0.00 |
| 14.86 | 1.29 | 0.00 | 2.57 | 0.02 | 0.00 | 14.88 | 1.30 | 0.00 | 2.56 | 0.02 | 0.00 |
| 14.90 | 1.42 | 0.00 | 2.55 | 0.02 | 0.00 | 14.92 | 1.65 | 0.00 | 2.54 | 0.02 | 0.00 |
| 14.94 | 1.87 | 0.00 | 2.53 | 0.02 | 0.00 | 14.96 | 2.00 | 0.00 | 2.52 | 0.02 | 0.00 |
| 14.98 | 2.00 | 0.00 | 2.51 | 0.02 | 0.00 | 15.00 | 2.00 | 0.00 | 2.50 | 0.02 | 0.00 |
| 15.02 | 2.00 | 0.00 | 2.49 | 0.02 | 0.00 | 15.04 | 2.00 | 0.00 | 2.48 | 0.02 | 0.00 |
| 15.06 | 2.00 | 0.00 | 2.47 | 0.02 | 0.00 | 15.08 | 2.00 | 0.00 | 2.46 | 0.02 | 0.00 |
| 15.10 | 1.98 | 0.00 | 2.45 | 0.02 | 0.00 | 15.12 | 1.91 | 0.00 | 2.44 | 0.02 | 0.00 |
| 15.14 | 1.91 | 0.00 | 2.43 | 0.02 | 0.00 | 15.16 | 1.95 | 0.00 | 2.42 | 0.02 | 0.00 |
| 15.18 | 2.00 | 0.00 | 2.41 | 0.02 | 0.00 | 15.20 | 2.00 | 0.00 | 2.40 | 0.02 | 0.00 |
| 15.22 | 2.00 | 0.00 | 2.39 | 0.02 | 0.00 | 15.24 | 2.00 | 0.00 | 2.38 | 0.02 | 0.00 |
| 15.26 | 1.96 | 0.00 | 2.37 | 0.02 | 0.00 | 15.28 | 2.00 | 0.00 | 2.36 | 0.02 | 0.00 |
| 15.30 | 1.59 | 0.00 | 2.35 | 0.02 | 0.00 | 15.32 | 1.40 | 0.00 | 2.34 | 0.02 | 0.00 |
| 15.34 | 1.35 | 0.00 | 2.33 | 0.02 | 0.00 | 15.36 | 1.47 | 0.00 | 2.32 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 15.38 | 1.63 | 0.00 | 2.31 | 0.02 | 0.00 | 15.40 | 1.73 | 0.00 | 2.30 | 0.02 | 0.00 |
| 15.42 | 1.76 | 0.00 | 2.29 | 0.02 | 0.00 | 15.44 | 1.78 | 0.00 | 2.28 | 0.02 | 0.00 |
| 15.46 | 1.80 | 0.00 | 2.27 | 0.02 | 0.00 | 15.48 | 1.85 | 0.00 | 2.26 | 0.02 | 0.00 |
| 15.50 | 1.92 | 0.00 | 2.25 | 0.02 | 0.00 | 15.52 | 1.94 | 0.00 | 2.24 | 0.02 | 0.00 |
| 15.54 | 1.88 | 0.00 | 2.23 | 0.02 | 0.00 | 15.56 | 1.76 | 0.00 | 2.22 | 0.02 | 0.00 |
| 15.58 | 1.64 | 0.00 | 2.21 | 0.02 | 0.00 | 15.60 | 1.59 | 0.00 | 2.20 | 0.02 | 0.00 |
| 15.62 | 1.56 | 0.00 | 2.19 | 0.02 | 0.00 | 15.64 | 1.54 | 0.00 | 2.18 | 0.02 | 0.00 |
| 15.66 | 1.50 | 0.00 | 2.17 | 0.02 | 0.00 | 15.68 | 1.42 | 0.00 | 2.16 | 0.02 | 0.00 |
| 15.70 | 1.34 | 0.00 | 2.15 | 0.02 | 0.00 | 15.72 | 1.27 | 0.00 | 2.14 | 0.02 | 0.00 |
| 15.74 | 1.23 | 0.00 | 2.13 | 0.02 | 0.00 | 15.76 | 1.19 | 0.00 | 2.12 | 0.02 | 0.00 |
| 15.78 | 1.15 | 0.00 | 2.11 | 0.02 | 0.00 | 15.80 | 1.11 | 0.00 | 2.10 | 0.02 | 0.00 |
| 15.82 | 1.08 | 0.00 | 2.09 | 0.02 | 0.00 | 15.84 | 1.07 | 0.00 | 2.08 | 0.02 | 0.00 |
| 15.86 | 1.07 | 0.00 | 2.07 | 0.02 | 0.00 | 15.88 | 1.07 | 0.00 | 2.06 | 0.02 | 0.00 |
| 15.90 | 1.09 | 0.00 | 2.05 | 0.02 | 0.00 | 15.92 | 1.08 | 0.00 | 2.04 | 0.02 | 0.00 |
| 15.94 | 1.09 | 0.00 | 2.03 | 0.02 | 0.00 | 15.96 | 1.13 | 0.00 | 2.02 | 0.02 | 0.00 |
| 15.98 | 1.19 | 0.00 | 2.01 | 0.02 | 0.00 | 16.00 | 1.20 | 0.00 | 2.00 | 0.02 | 0.00 |
| 16.02 | 1.16 | 0.00 | 1.99 | 0.02 | 0.00 | 16.04 | 1.15 | 0.00 | 1.98 | 0.02 | 0.00 |
| 16.06 | 1.17 | 0.00 | 1.97 | 0.02 | 0.00 | 16.08 | 1.20 | 0.00 | 1.96 | 0.02 | 0.00 |
| 16.10 | 1.24 | 0.00 | 1.95 | 0.02 | 0.00 | 16.12 | 2.00 | 0.00 | 1.94 | 0.02 | 0.00 |
| 16.14 | 2.00 | 0.00 | 1.93 | 0.02 | 0.00 | 16.16 | 2.00 | 0.00 | 1.92 | 0.02 | 0.00 |
| 16.18 | 2.00 | 0.00 | 1.91 | 0.02 | 0.00 | 16.20 | 2.00 | 0.00 | 1.90 | 0.02 | 0.00 |
| 16.22 | 2.00 | 0.00 | 1.89 | 0.02 | 0.00 | 16.24 | 2.00 | 0.00 | 1.88 | 0.02 | 0.00 |
| 16.26 | 2.00 | 0.00 | 1.87 | 0.02 | 0.00 | 16.28 | 1.33 | 0.00 | 1.86 | 0.02 | 0.00 |
| 16.30 | 1.37 | 0.00 | 1.85 | 0.02 | 0.00 | 16.32 | 1.33 | 0.00 | 1.84 | 0.02 | 0.00 |
| 16.34 | 2.00 | 0.00 | 1.83 | 0.02 | 0.00 | 16.36 | 2.00 | 0.00 | 1.82 | 0.02 | 0.00 |
| 16.38 | 1.16 | 0.00 | 1.81 | 0.02 | 0.00 | 16.40 | 1.12 | 0.00 | 1.80 | 0.02 | 0.00 |
| 16.42 | 1.12 | 0.00 | 1.79 | 0.02 | 0.00 | 16.44 | 1.13 | 0.00 | 1.78 | 0.02 | 0.00 |
| 16.46 | 1.14 | 0.00 | 1.77 | 0.02 | 0.00 | 16.48 | 1.14 | 0.00 | 1.76 | 0.02 | 0.00 |
| 16.50 | 1.14 | 0.00 | 1.75 | 0.02 | 0.00 | 16.52 | 1.14 | 0.00 | 1.74 | 0.02 | 0.00 |
| 16.54 | 1.14 | 0.00 | 1.73 | 0.02 | 0.00 | 16.56 | 1.13 | 0.00 | 1.72 | 0.02 | 0.00 |
| 16.58 | 1.12 | 0.00 | 1.71 | 0.02 | 0.00 | 16.60 | 1.11 | 0.00 | 1.70 | 0.02 | 0.00 |
| 16.62 | 1.11 | 0.00 | 1.69 | 0.02 | 0.00 | 16.64 | 1.14 | 0.00 | 1.68 | 0.02 | 0.00 |
| 16.66 | 1.18 | 0.00 | 1.67 | 0.02 | 0.00 | 16.68 | 1.21 | 0.00 | 1.66 | 0.02 | 0.00 |
| 16.70 | 1.21 | 0.00 | 1.65 | 0.02 | 0.00 | 16.72 | 1.20 | 0.00 | 1.64 | 0.02 | 0.00 |
| 16.74 | 1.21 | 0.00 | 1.63 | 0.02 | 0.00 | 16.76 | 1.29 | 0.00 | 1.62 | 0.02 | 0.00 |
| 16.78 | 1.43 | 0.00 | 1.61 | 0.02 | 0.00 | 16.80 | 1.58 | 0.00 | 1.60 | 0.02 | 0.00 |
| 16.82 | 1.68 | 0.00 | 1.59 | 0.02 | 0.00 | 16.84 | 1.76 | 0.00 | 1.58 | 0.02 | 0.00 |
| 16.86 | 1.77 | 0.00 | 1.57 | 0.02 | 0.00 | 16.88 | 2.00 | 0.00 | 1.56 | 0.02 | 0.00 |
| 16.90 | 2.00 | 0.00 | 1.55 | 0.02 | 0.00 | 16.92 | 2.00 | 0.00 | 1.54 | 0.02 | 0.00 |
| 16.94 | 2.00 | 0.00 | 1.53 | 0.02 | 0.00 | 16.96 | 2.00 | 0.00 | 1.52 | 0.02 | 0.00 |
| 16.98 | 2.00 | 0.00 | 1.51 | 0.02 | 0.00 | 17.00 | 2.00 | 0.00 | 1.50 | 0.02 | 0.00 |
| 17.02 | 2.00 | 0.00 | 1.49 | 0.02 | 0.00 | 17.04 | 2.00 | 0.00 | 1.48 | 0.02 | 0.00 |
| 17.06 | 2.00 | 0.00 | 1.47 | 0.02 | 0.00 | 17.08 | 2.00 | 0.00 | 1.46 | 0.02 | 0.00 |
| 17.10 | 2.00 | 0.00 | 1.45 | 0.02 | 0.00 | 17.12 | 2.00 | 0.00 | 1.44 | 0.02 | 0.00 |
| 17.14 | 2.00 | 0.00 | 1.43 | 0.02 | 0.00 | 17.16 | 2.00 | 0.00 | 1.42 | 0.02 | 0.00 |
| 17.18 | 2.00 | 0.00 | 1.41 | 0.02 | 0.00 | 17.20 | 2.00 | 0.00 | 1.40 | 0.02 | 0.00 |
| 17.22 | 2.00 | 0.00 | 1.39 | 0.02 | 0.00 | 17.24 | 2.00 | 0.00 | 1.38 | 0.02 | 0.00 |
| 17.26 | 2.00 | 0.00 | 1.37 | 0.02 | 0.00 | 17.28 | 2.00 | 0.00 | 1.36 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 17.30 | 2.00 | 0.00 | 1.35 | 0.02 | 0.00 | 17.32 | 2.00 | 0.00 | 1.34 | 0.02 | 0.00 |
| 17.34 | 2.00 | 0.00 | 1.33 | 0.02 | 0.00 | 17.36 | 2.00 | 0.00 | 1.32 | 0.02 | 0.00 |
| 17.38 | 2.00 | 0.00 | 1.31 | 0.02 | 0.00 | 17.40 | 2.00 | 0.00 | 1.30 | 0.02 | 0.00 |
| 17.42 | 2.00 | 0.00 | 1.29 | 0.02 | 0.00 | 17.44 | 2.00 | 0.00 | 1.28 | 0.02 | 0.00 |
| 17.46 | 2.00 | 0.00 | 1.27 | 0.02 | 0.00 | 17.48 | 2.00 | 0.00 | 1.26 | 0.02 | 0.00 |
| 17.50 | 2.00 | 0.00 | 1.25 | 0.02 | 0.00 | 17.52 | 2.00 | 0.00 | 1.24 | 0.02 | 0.00 |
| 17.54 | 2.00 | 0.00 | 1.23 | 0.02 | 0.00 | 17.56 | 2.00 | 0.00 | 1.22 | 0.02 | 0.00 |
| 17.58 | 2.00 | 0.00 | 1.21 | 0.02 | 0.00 | 17.60 | 2.00 | 0.00 | 1.20 | 0.02 | 0.00 |
| 17.62 | 2.00 | 0.00 | 1.19 | 0.02 | 0.00 | 17.64 | 2.00 | 0.00 | 1.18 | 0.02 | 0.00 |
| 17.66 | 2.00 | 0.00 | 1.17 | 0.02 | 0.00 | 17.68 | 2.00 | 0.00 | 1.16 | 0.02 | 0.00 |
| 17.70 | 2.00 | 0.00 | 1.15 | 0.02 | 0.00 | 17.72 | 2.00 | 0.00 | 1.14 | 0.02 | 0.00 |
| 17.74 | 2.00 | 0.00 | 1.13 | 0.02 | 0.00 | 17.76 | 2.00 | 0.00 | 1.12 | 0.02 | 0.00 |
| 17.78 | 2.00 | 0.00 | 1.11 | 0.02 | 0.00 | 17.80 | 2.00 | 0.00 | 1.10 | 0.02 | 0.00 |
| 17.82 | 2.00 | 0.00 | 1.09 | 0.02 | 0.00 | 17.84 | 2.00 | 0.00 | 1.08 | 0.02 | 0.00 |
| 17.86 | 2.00 | 0.00 | 1.07 | 0.02 | 0.00 | 17.88 | 2.00 | 0.00 | 1.06 | 0.02 | 0.00 |
| 17.90 | 2.00 | 0.00 | 1.05 | 0.02 | 0.00 | 17.92 | 2.00 | 0.00 | 1.04 | 0.02 | 0.00 |
| 17.94 | 2.00 | 0.00 | 1.03 | 0.02 | 0.00 | 17.96 | 2.00 | 0.00 | 1.02 | 0.02 | 0.00 |
| 17.98 | 2.00 | 0.00 | 1.01 | 0.02 | 0.00 | 18.00 | 2.00 | 0.00 | 1.00 | 0.02 | 0.00 |
| 18.02 | 2.00 | 0.00 | 0.99 | 0.02 | 0.00 | 18.04 | 2.00 | 0.00 | 0.98 | 0.02 | 0.00 |
| 18.06 | 2.00 | 0.00 | 0.97 | 0.02 | 0.00 | 18.08 | 2.00 | 0.00 | 0.96 | 0.02 | 0.00 |
| 18.10 | 2.00 | 0.00 | 0.95 | 0.02 | 0.00 | 18.12 | 2.00 | 0.00 | 0.94 | 0.02 | 0.00 |
| 18.14 | 2.00 | 0.00 | 0.93 | 0.02 | 0.00 | 18.16 | 2.00 | 0.00 | 0.92 | 0.02 | 0.00 |
| 18.18 | 2.00 | 0.00 | 0.91 | 0.02 | 0.00 | 18.20 | 2.00 | 0.00 | 0.90 | 0.02 | 0.00 |
| 18.22 | 2.00 | 0.00 | 0.89 | 0.02 | 0.00 | 18.24 | 2.00 | 0.00 | 0.88 | 0.02 | 0.00 |
| 18.26 | 2.00 | 0.00 | 0.87 | 0.02 | 0.00 | 18.28 | 2.00 | 0.00 | 0.86 | 0.02 | 0.00 |
| 18.30 | 2.00 | 0.00 | 0.85 | 0.02 | 0.00 | 18.32 | 2.00 | 0.00 | 0.84 | 0.02 | 0.00 |
| 18.34 | 2.00 | 0.00 | 0.83 | 0.02 | 0.00 | 18.36 | 2.00 | 0.00 | 0.82 | 0.02 | 0.00 |
| 18.38 | 2.00 | 0.00 | 0.81 | 0.02 | 0.00 | 18.40 | 2.00 | 0.00 | 0.80 | 0.02 | 0.00 |
| 18.42 | 2.00 | 0.00 | 0.79 | 0.02 | 0.00 | 18.44 | 2.00 | 0.00 | 0.78 | 0.02 | 0.00 |
| 18.46 | 2.00 | 0.00 | 0.77 | 0.02 | 0.00 | 18.48 | 2.00 | 0.00 | 0.76 | 0.02 | 0.00 |
| 18.50 | 2.00 | 0.00 | 0.75 | 0.02 | 0.00 | 18.52 | 2.00 | 0.00 | 0.74 | 0.02 | 0.00 |
| 18.54 | 2.00 | 0.00 | 0.73 | 0.02 | 0.00 | 18.56 | 2.00 | 0.00 | 0.72 | 0.02 | 0.00 |
| 18.58 | 2.00 | 0.00 | 0.71 | 0.02 | 0.00 | 18.60 | 1.24 | 0.00 | 0.70 | 0.02 | 0.00 |
| 18.62 | 1.33 | 0.00 | 0.69 | 0.02 | 0.00 | 18.64 | 1.36 | 0.00 | 0.68 | 0.02 | 0.00 |
| 18.66 | 1.35 | 0.00 | 0.67 | 0.02 | 0.00 | 18.68 | 1.31 | 0.00 | 0.66 | 0.02 | 0.00 |
| 18.70 | 1.30 | 0.00 | 0.65 | 0.02 | 0.00 | 18.72 | 1.35 | 0.00 | 0.64 | 0.02 | 0.00 |
| 18.74 | 1.43 | 0.00 | 0.63 | 0.02 | 0.00 | 18.76 | 1.45 | 0.00 | 0.62 | 0.02 | 0.00 |
| 18.78 | 1.46 | 0.00 | 0.61 | 0.02 | 0.00 | 18.80 | 1.49 | 0.00 | 0.60 | 0.02 | 0.00 |
| 18.82 | 1.54 | 0.00 | 0.59 | 0.02 | 0.00 | 18.84 | 1.58 | 0.00 | 0.58 | 0.02 | 0.00 |
| 18.86 | 1.59 | 0.00 | 0.57 | 0.02 | 0.00 | 18.88 | 2.00 | 0.00 | 0.56 | 0.02 | 0.00 |
| 18.90 | 2.00 | 0.00 | 0.55 | 0.02 | 0.00 | 18.92 | 2.00 | 0.00 | 0.54 | 0.02 | 0.00 |
| 18.94 | 2.00 | 0.00 | 0.53 | 0.02 | 0.00 | 18.96 | 2.00 | 0.00 | 0.52 | 0.02 | 0.00 |
| 18.98 | 2.00 | 0.00 | 0.51 | 0.02 | 0.00 | 19.00 | 2.00 | 0.00 | 0.50 | 0.02 | 0.00 |
| 19.02 | 2.00 | 0.00 | 0.49 | 0.02 | 0.00 | 19.04 | 2.00 | 0.00 | 0.48 | 0.02 | 0.00 |
| 19.06 | 2.00 | 0.00 | 0.47 | 0.02 | 0.00 | 19.08 | 2.00 | 0.00 | 0.46 | 0.02 | 0.00 |
| 19.10 | 2.00 | 0.00 | 0.45 | 0.02 | 0.00 | 19.12 | 2.00 | 0.00 | 0.44 | 0.02 | 0.00 |
| 19.14 | 2.00 | 0.00 | 0.43 | 0.02 | 0.00 | 19.16 | 2.00 | 0.00 | 0.42 | 0.02 | 0.00 |
| 19.18 | 2.00 | 0.00 | 0.41 | 0.02 | 0.00 | 19.20 | 2.00 | 0.00 | 0.40 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 19.22 | 2.00 | 0.00 | 0.39 | 0.02 | 0.00 | 19.24 | 2.00 | 0.00 | 0.38 | 0.02 | 0.00 |
| 19.26 | 2.00 | 0.00 | 0.37 | 0.02 | 0.00 | 19.28 | 2.00 | 0.00 | 0.36 | 0.02 | 0.00 |
| 19.30 | 2.00 | 0.00 | 0.35 | 0.02 | 0.00 | 19.32 | 2.00 | 0.00 | 0.34 | 0.02 | 0.00 |
| 19.34 | 2.00 | 0.00 | 0.33 | 0.02 | 0.00 | 19.36 | 2.00 | 0.00 | 0.32 | 0.02 | 0.00 |
| 19.38 | 2.00 | 0.00 | 0.31 | 0.02 | 0.00 | 19.40 | 2.00 | 0.00 | 0.30 | 0.02 | 0.00 |
| 19.42 | 2.00 | 0.00 | 0.29 | 0.02 | 0.00 | 19.44 | 2.00 | 0.00 | 0.28 | 0.02 | 0.00 |
| 19.46 | 2.00 | 0.00 | 0.27 | 0.02 | 0.00 | 19.48 | 2.00 | 0.00 | 0.26 | 0.02 | 0.00 |
| 19.50 | 2.00 | 0.00 | 0.25 | 0.02 | 0.00 | 19.52 | 2.00 | 0.00 | 0.24 | 0.02 | 0.00 |
| 19.54 | 2.00 | 0.00 | 0.23 | 0.02 | 0.00 | 19.56 | 2.00 | 0.00 | 0.22 | 0.02 | 0.00 |
| 19.58 | 2.00 | 0.00 | 0.21 | 0.02 | 0.00 | 19.60 | 2.00 | 0.00 | 0.20 | 0.02 | 0.00 |
| 19.62 | 2.00 | 0.00 | 0.19 | 0.02 | 0.00 | 19.64 | 2.00 | 0.00 | 0.18 | 0.02 | 0.00 |
| 19.66 | 2.00 | 0.00 | 0.17 | 0.02 | 0.00 | 19.68 | 1.19 | 0.00 | 0.16 | 0.02 | 0.00 |
| 19.70 | 1.27 | 0.00 | 0.15 | 0.02 | 0.00 | 19.72 | 1.41 | 0.00 | 0.14 | 0.02 | 0.00 |
| 19.74 | 1.54 | 0.00 | 0.13 | 0.02 | 0.00 | 19.76 | 1.63 | 0.00 | 0.12 | 0.02 | 0.00 |
| 19.78 | 2.00 | 0.00 | 0.11 | 0.02 | 0.00 | 19.80 | 2.00 | 0.00 | 0.10 | 0.02 | 0.00 |
| 19.82 | 2.00 | 0.00 | 0.09 | 0.02 | 0.00 | 19.84 | 2.00 | 0.00 | 0.08 | 0.02 | 0.00 |
| 19.86 | 2.00 | 0.00 | 0.07 | 0.02 | 0.00 | 19.88 | 2.00 | 0.00 | 0.06 | 0.02 | 0.00 |
| 19.90 | 2.00 | 0.00 | 0.05 | 0.02 | 0.00 | | | | | | |

Overall liquefaction potential: 0.51

LPI = 0.00 - Liquefaction risk very low
 LPI between 0.00 and 5.00 - Liquefaction risk low
 LPI between 5.00 and 15.00 - Liquefaction risk high
 LPI > 15.00 - Liquefaction risk very high

Abbreviations

FS: Calculated factor of safety for test point
 F_L: 1 - FS
 w_z: Function value of the extend of soil liquefaction according to depth
 d_z: Layer thickness (m)
 LPI: Liquefaction potential index value for test point

LIQUEFACTION ANALYSIS REPORT

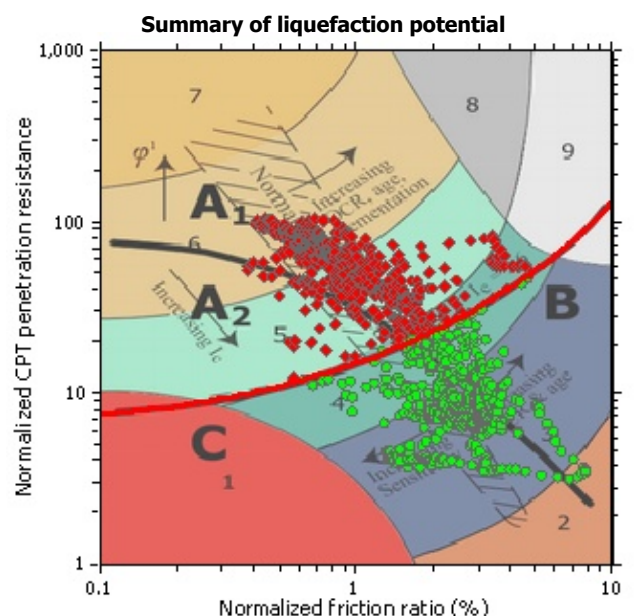
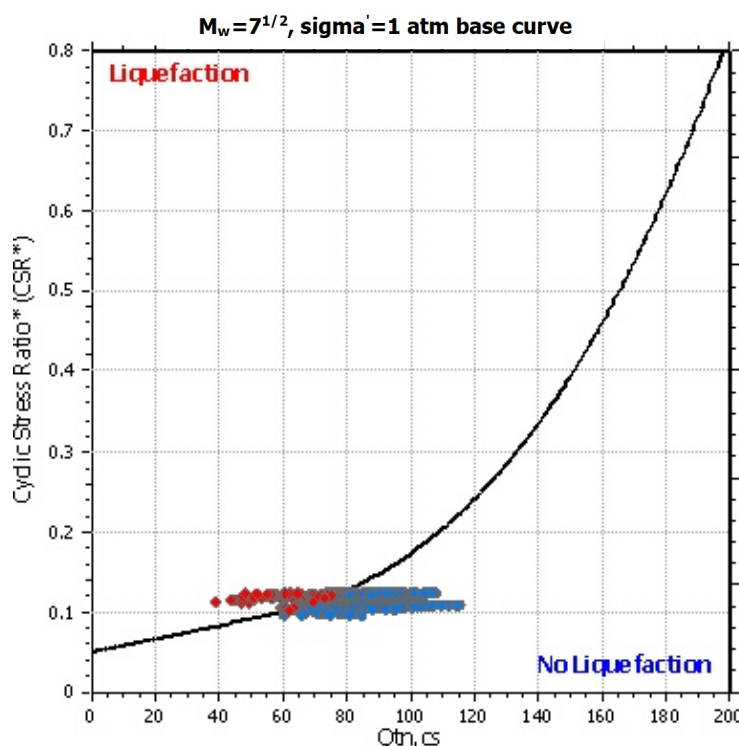
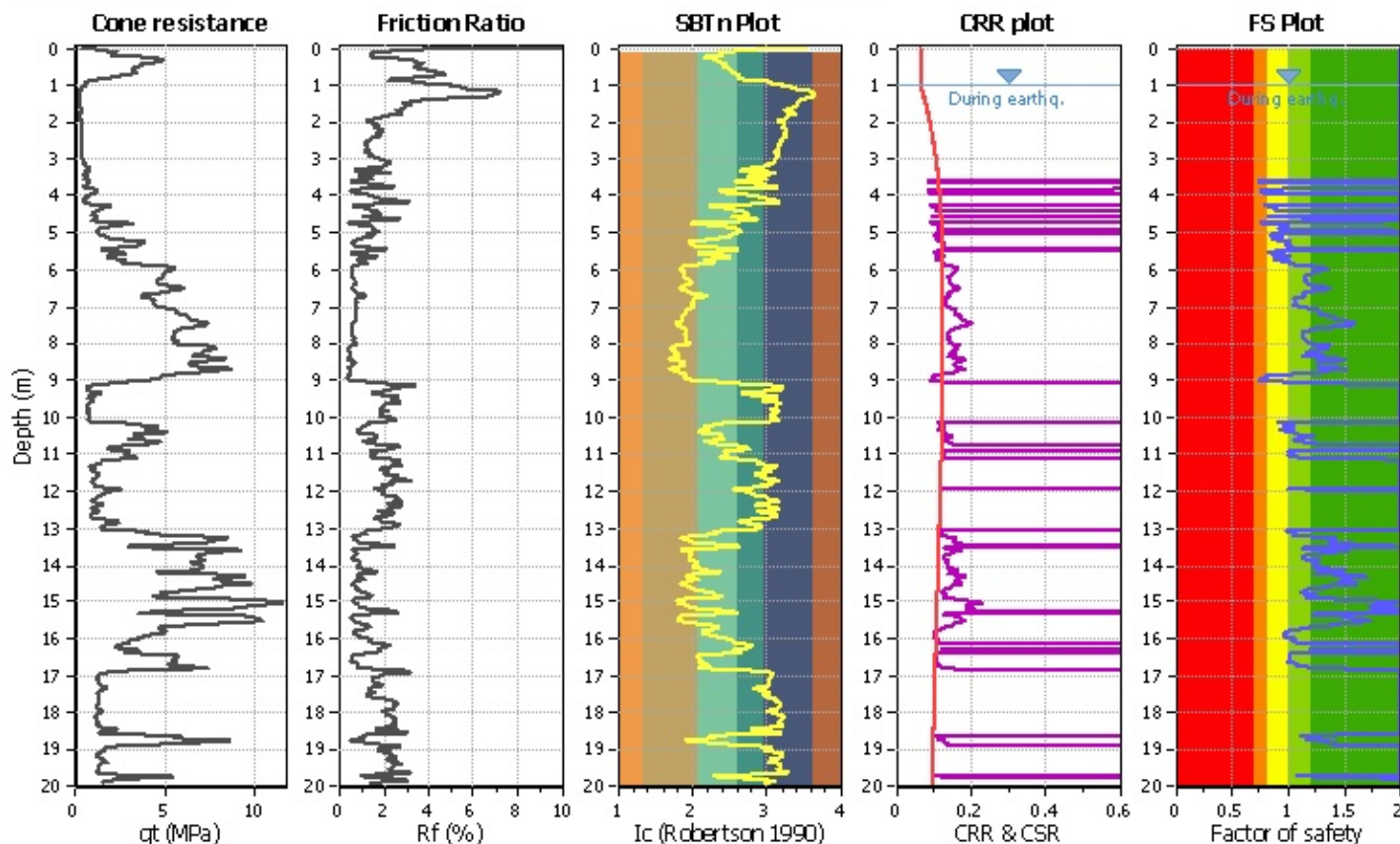
Project title :

Location :

CPT file : CPTU4

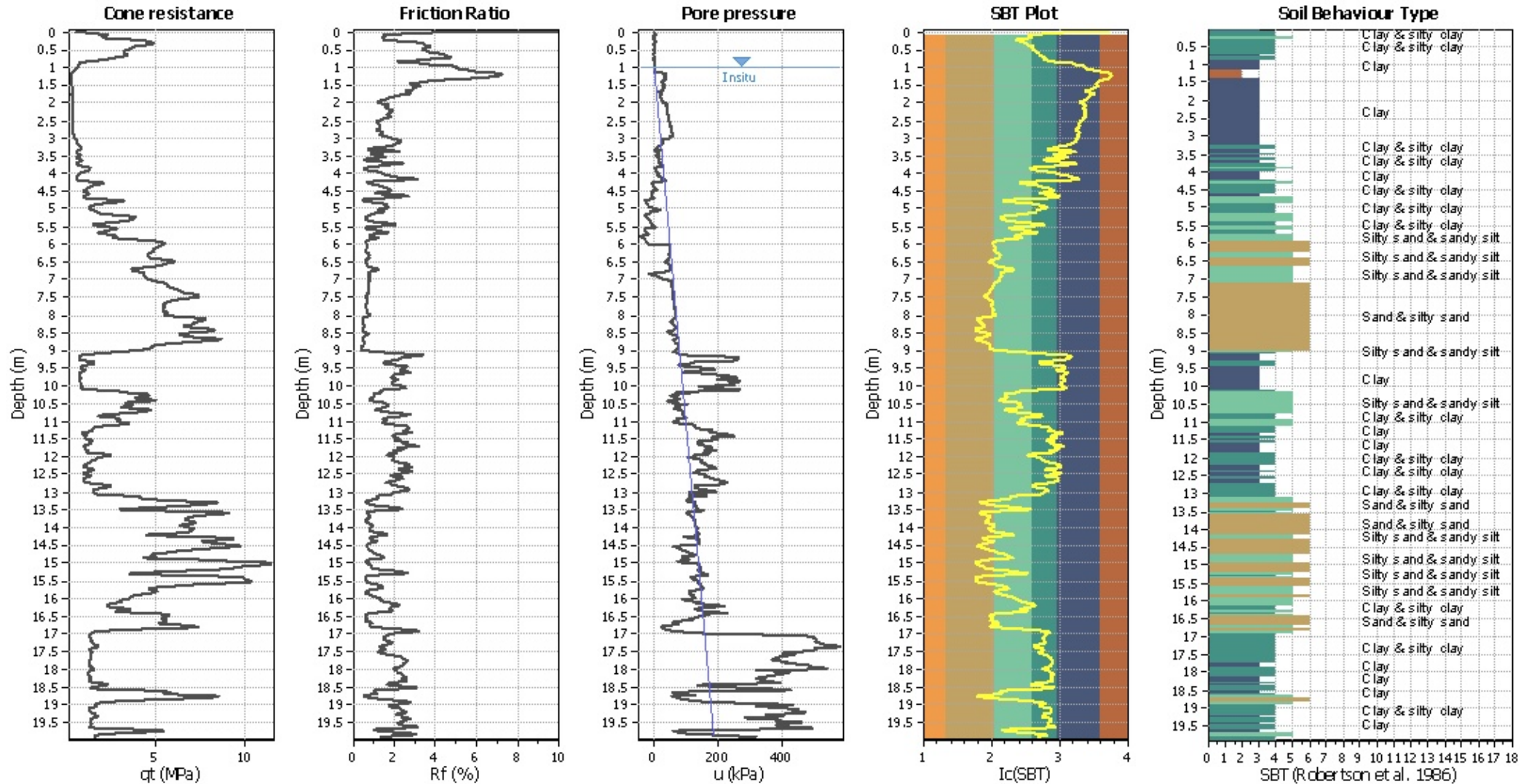
Input parameters and analysis data

| | | | | | | | |
|------------------------------|-------------------|---------------------------|--------------|-------------------------|-----|----------------------|--------------|
| Analysis method: | NCEER (1998) | G.W.T. (in-situ): | 1.00 m | Use fill: | No | Clay like behavior | |
| Fines correction method: | NCEER (1998) | G.W.T. (earthq.): | 1.00 m | Fill height: | N/A | applied: | Sands only |
| Points to test: | Based on Ic value | Average results interval: | 3 | Fill weight: | N/A | Limit depth applied: | No |
| Earthquake magnitude M_w : | 6.00 | Ic cut-off value: | 2.60 | Trans. detect. applied: | No | Limit depth: | N/A |
| Peak ground acceleration: | 0.17 | Unit weight calculation: | Based on SBT | K_0 applied: | Yes | MSF method: | Method based |



Zone A₁: Cyclic liquefaction likely depending on size and duration of cyclic loading
 Zone A₂: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
 Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
 Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

CPT basic interpretation plo



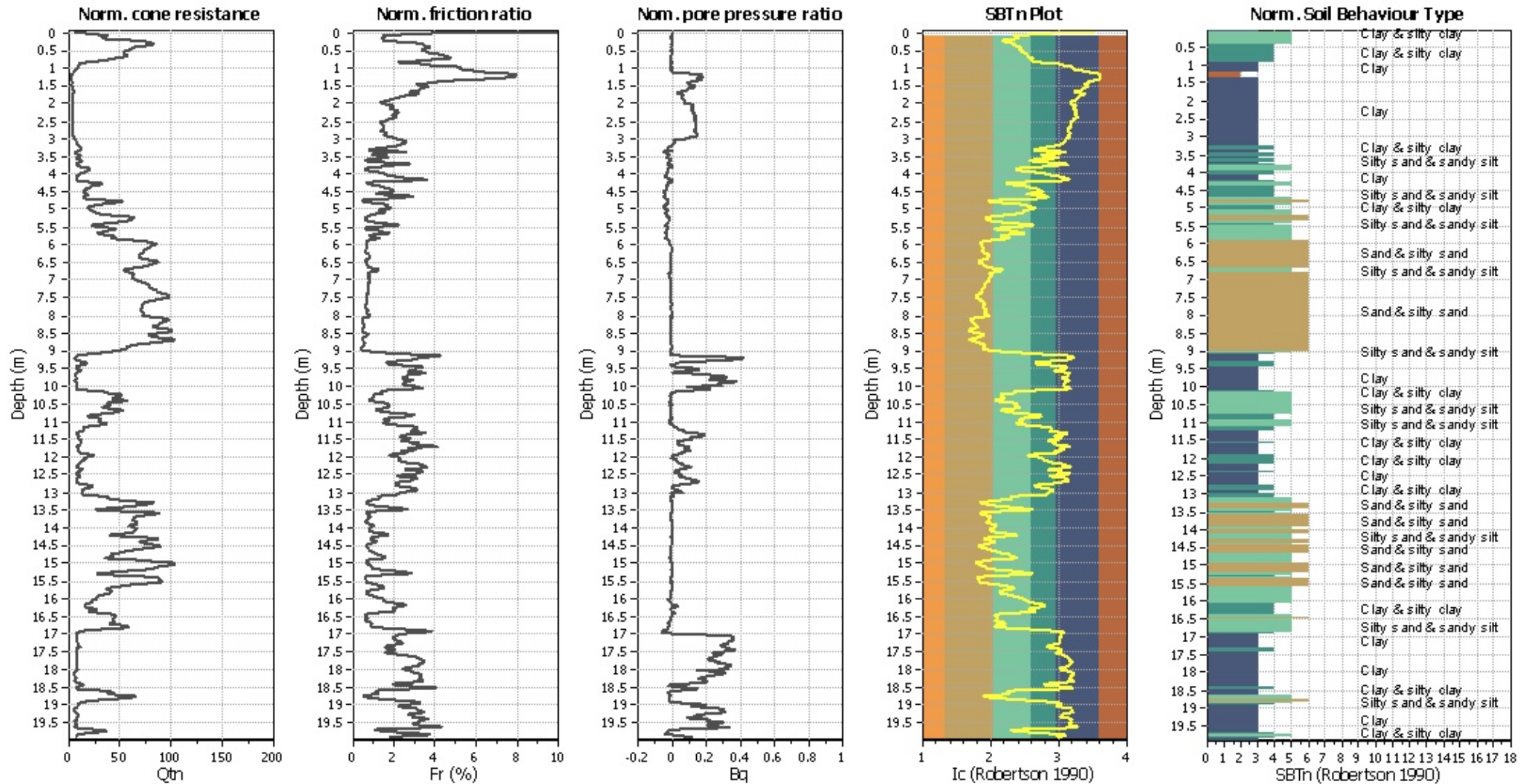
Input parameters and analysis data

| | | | | | |
|---------------------------------------|-------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K ₀ applied: | Yes |
| Earthquake magnitude M _w : | 6.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

SBT legend

| | | |
|---------------------------|-----------------------------|----------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty | 7. Gravely sand to sand |
| 2. Organic material | 5. Silty sand to sandy silt | 8. Very stiff sand to |
| 3. Clay to silty clay | 6. Clean sand to silty sand | 9. Very stiff fine grained |

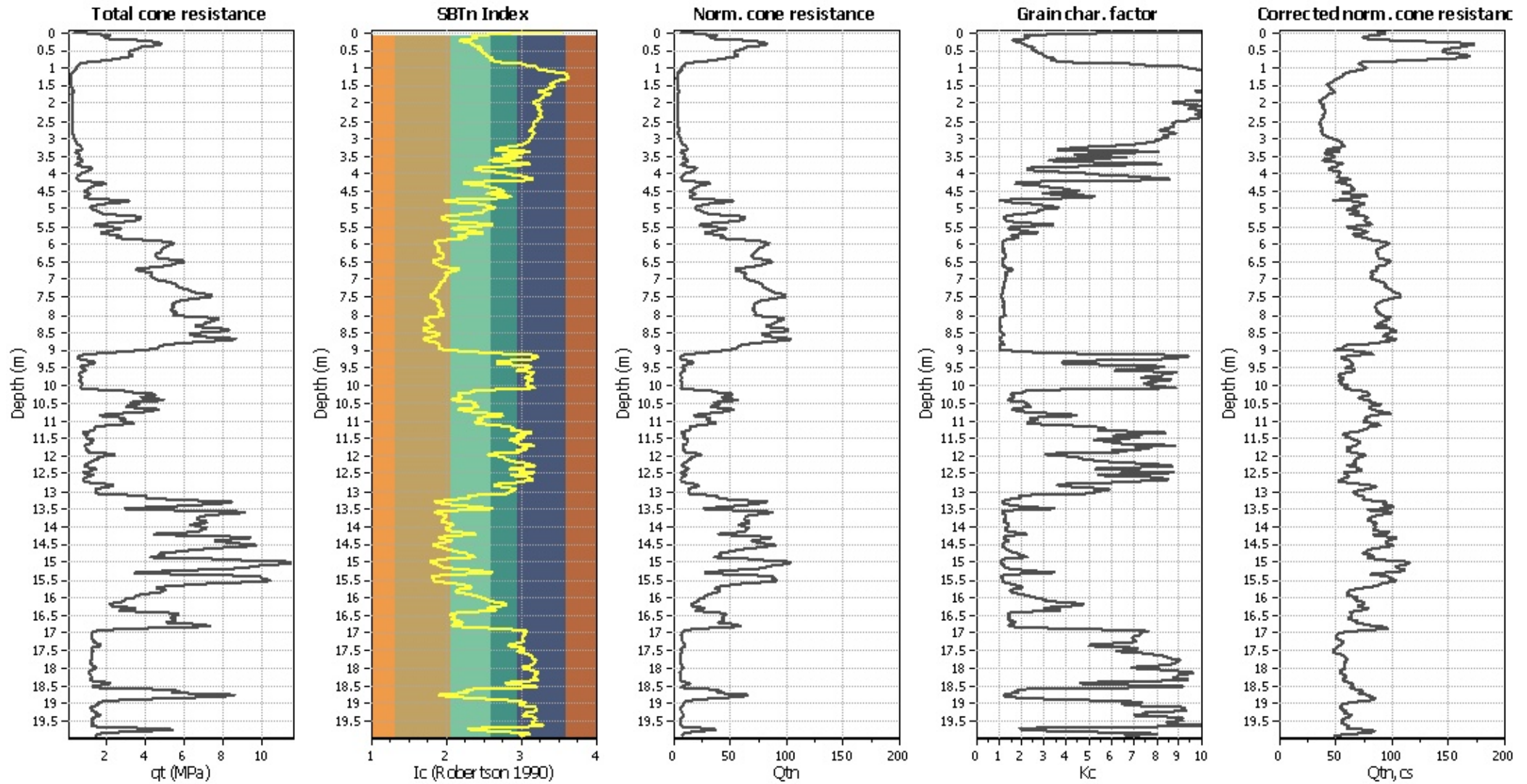
CPT basic interpretation plots (normaliz



Input parameters and analysis data

| | | | | | |
|---------------------------------------|-------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K ₀ applied: | Yes |
| Earthquake magnitude M _w : | 6.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

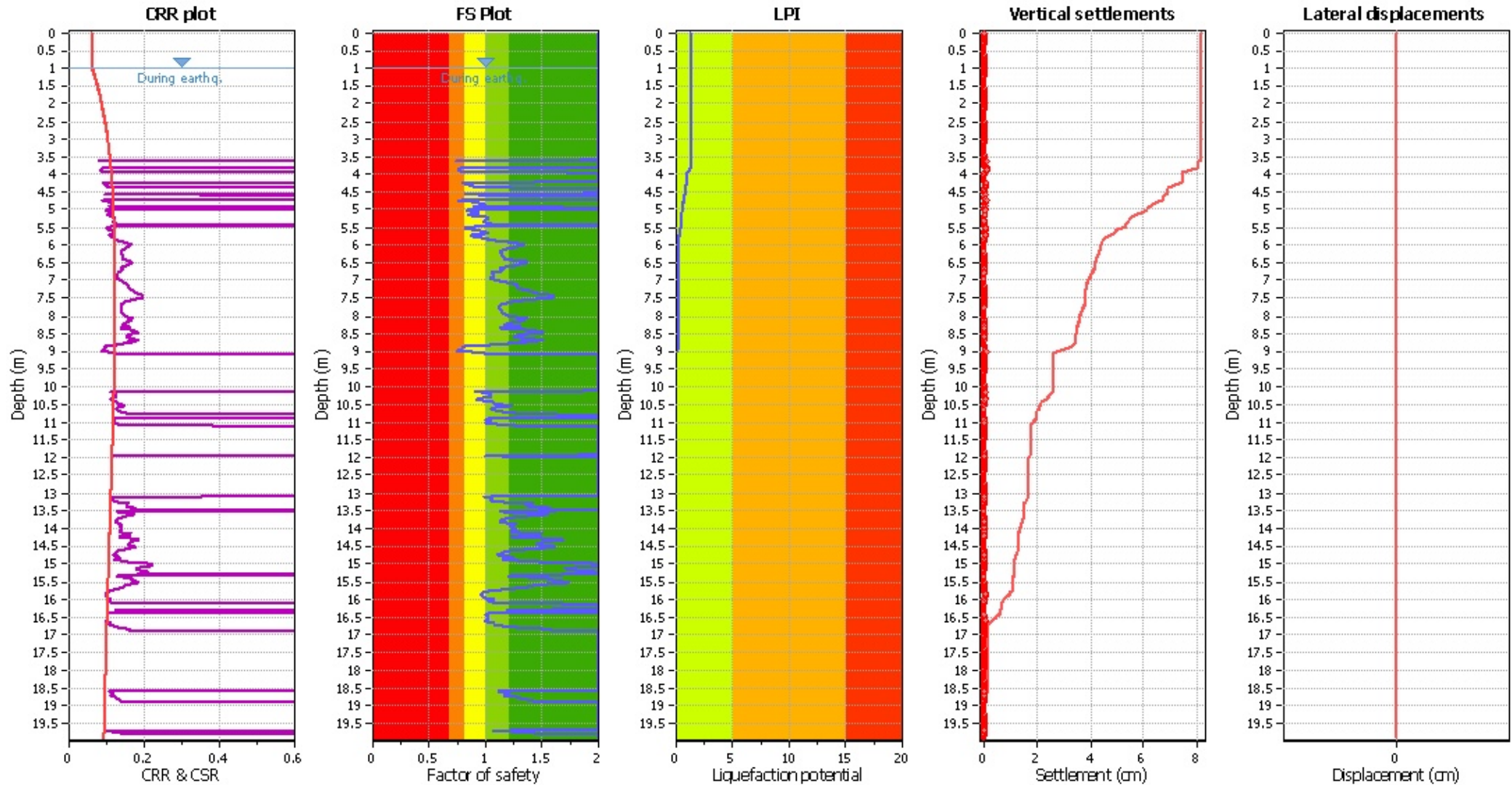
Liquefaction analysis overall plots (intermediate res)



Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 6.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

Liquefaction analysis overall plot



Input parameters and analysis data

| | | | | | |
|--------------------------------|-------------------|---------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (earthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 6.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

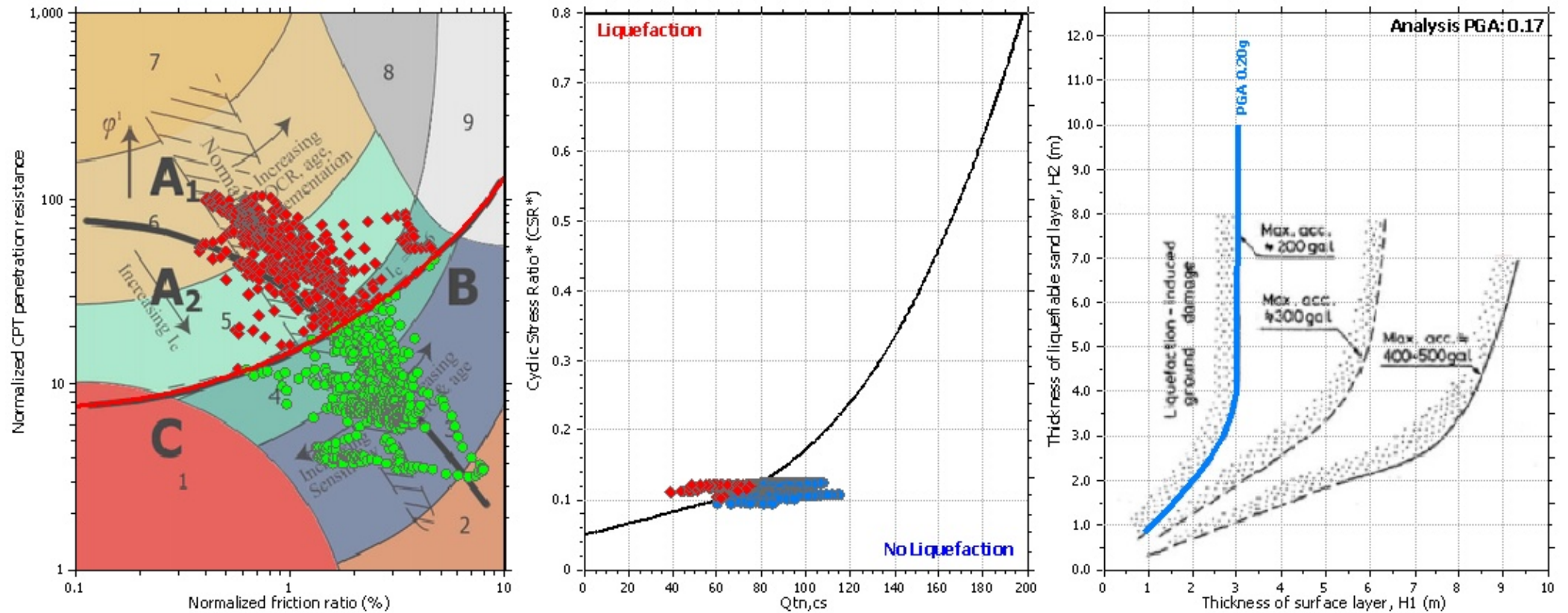
F.S. color scheme

| | |
|-------------|---|
| Red | Almost certain it will liquefy |
| Orange | Very likely to liquefy |
| Yellow | Liquefaction and no liq. are equally likely |
| Light green | Unlike to liquefy |
| Dark green | Almost certain it will not liquefy |

LPI color scheme

| | |
|--------|----------------|
| Red | Very high risk |
| Orange | High risk |
| Yellow | Low risk |

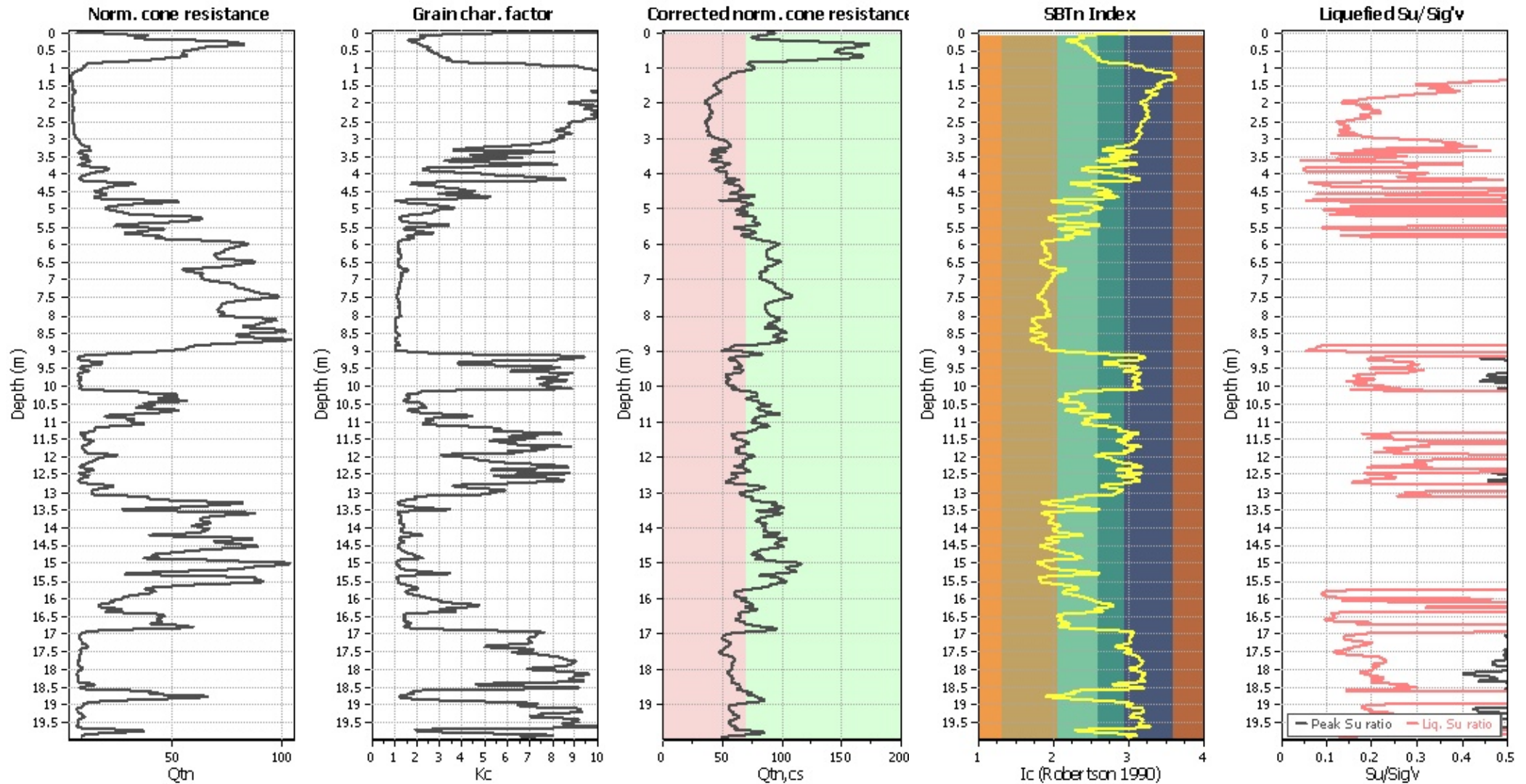
Liquefaction analysis summary plo



Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 6.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

Check for strength loss plots (Robertson (2010))



Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 6.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

| :: Liquefaction Potential Index calculation data :: | | | | | | | | | | | |
|---|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
| 0.02 | 2.00 | 0.00 | 9.99 | 0.02 | 0.00 | 0.04 | 2.00 | 0.00 | 9.98 | 0.02 | 0.00 |
| 0.06 | 2.00 | 0.00 | 9.97 | 0.02 | 0.00 | 0.08 | 2.00 | 0.00 | 9.96 | 0.02 | 0.00 |
| 0.10 | 2.00 | 0.00 | 9.95 | 0.02 | 0.00 | 0.12 | 2.00 | 0.00 | 9.94 | 0.02 | 0.00 |
| 0.14 | 2.00 | 0.00 | 9.93 | 0.02 | 0.00 | 0.16 | 2.00 | 0.00 | 9.92 | 0.02 | 0.00 |
| 0.18 | 2.00 | 0.00 | 9.91 | 0.02 | 0.00 | 0.20 | 2.00 | 0.00 | 9.90 | 0.02 | 0.00 |
| 0.22 | 2.00 | 0.00 | 9.89 | 0.02 | 0.00 | 0.24 | 2.00 | 0.00 | 9.88 | 0.02 | 0.00 |
| 0.26 | 2.00 | 0.00 | 9.87 | 0.02 | 0.00 | 0.28 | 2.00 | 0.00 | 9.86 | 0.02 | 0.00 |
| 0.30 | 2.00 | 0.00 | 9.85 | 0.02 | 0.00 | 0.32 | 2.00 | 0.00 | 9.84 | 0.02 | 0.00 |
| 0.34 | 2.00 | 0.00 | 9.83 | 0.02 | 0.00 | 0.36 | 2.00 | 0.00 | 9.82 | 0.02 | 0.00 |
| 0.38 | 2.00 | 0.00 | 9.81 | 0.02 | 0.00 | 0.40 | 2.00 | 0.00 | 9.80 | 0.02 | 0.00 |
| 0.42 | 2.00 | 0.00 | 9.79 | 0.02 | 0.00 | 0.44 | 2.00 | 0.00 | 9.78 | 0.02 | 0.00 |
| 0.46 | 2.00 | 0.00 | 9.77 | 0.02 | 0.00 | 0.48 | 2.00 | 0.00 | 9.76 | 0.02 | 0.00 |
| 0.50 | 2.00 | 0.00 | 9.75 | 0.02 | 0.00 | 0.52 | 2.00 | 0.00 | 9.74 | 0.02 | 0.00 |
| 0.54 | 2.00 | 0.00 | 9.73 | 0.02 | 0.00 | 0.56 | 2.00 | 0.00 | 9.72 | 0.02 | 0.00 |
| 0.58 | 2.00 | 0.00 | 9.71 | 0.02 | 0.00 | 0.60 | 2.00 | 0.00 | 9.70 | 0.02 | 0.00 |
| 0.62 | 2.00 | 0.00 | 9.69 | 0.02 | 0.00 | 0.64 | 2.00 | 0.00 | 9.68 | 0.02 | 0.00 |
| 0.66 | 2.00 | 0.00 | 9.67 | 0.02 | 0.00 | 0.68 | 2.00 | 0.00 | 9.66 | 0.02 | 0.00 |
| 0.70 | 2.00 | 0.00 | 9.65 | 0.02 | 0.00 | 0.72 | 2.00 | 0.00 | 9.64 | 0.02 | 0.00 |
| 0.74 | 2.00 | 0.00 | 9.63 | 0.02 | 0.00 | 0.76 | 2.00 | 0.00 | 9.62 | 0.02 | 0.00 |
| 0.78 | 2.00 | 0.00 | 9.61 | 0.02 | 0.00 | 0.80 | 2.00 | 0.00 | 9.60 | 0.02 | 0.00 |
| 0.82 | 2.00 | 0.00 | 9.59 | 0.02 | 0.00 | 0.84 | 2.00 | 0.00 | 9.58 | 0.02 | 0.00 |
| 0.86 | 2.00 | 0.00 | 9.57 | 0.02 | 0.00 | 0.88 | 2.00 | 0.00 | 9.56 | 0.02 | 0.00 |
| 0.90 | 2.00 | 0.00 | 9.55 | 0.02 | 0.00 | 0.92 | 2.00 | 0.00 | 9.54 | 0.02 | 0.00 |
| 0.94 | 2.00 | 0.00 | 9.53 | 0.02 | 0.00 | 0.96 | 2.00 | 0.00 | 9.52 | 0.02 | 0.00 |
| 0.98 | 2.00 | 0.00 | 9.51 | 0.02 | 0.00 | 1.00 | 2.00 | 0.00 | 9.50 | 0.02 | 0.00 |
| 1.02 | 2.00 | 0.00 | 9.49 | 0.02 | 0.00 | 1.04 | 2.00 | 0.00 | 9.48 | 0.02 | 0.00 |
| 1.06 | 2.00 | 0.00 | 9.47 | 0.02 | 0.00 | 1.08 | 2.00 | 0.00 | 9.46 | 0.02 | 0.00 |
| 1.10 | 2.00 | 0.00 | 9.45 | 0.02 | 0.00 | 1.12 | 2.00 | 0.00 | 9.44 | 0.02 | 0.00 |
| 1.14 | 2.00 | 0.00 | 9.43 | 0.02 | 0.00 | 1.16 | 2.00 | 0.00 | 9.42 | 0.02 | 0.00 |
| 1.18 | 2.00 | 0.00 | 9.41 | 0.02 | 0.00 | 1.20 | 2.00 | 0.00 | 9.40 | 0.02 | 0.00 |
| 1.22 | 2.00 | 0.00 | 9.39 | 0.02 | 0.00 | 1.24 | 2.00 | 0.00 | 9.38 | 0.02 | 0.00 |
| 1.26 | 2.00 | 0.00 | 9.37 | 0.02 | 0.00 | 1.28 | 2.00 | 0.00 | 9.36 | 0.02 | 0.00 |
| 1.30 | 2.00 | 0.00 | 9.35 | 0.02 | 0.00 | 1.32 | 2.00 | 0.00 | 9.34 | 0.02 | 0.00 |
| 1.34 | 2.00 | 0.00 | 9.33 | 0.02 | 0.00 | 1.36 | 2.00 | 0.00 | 9.32 | 0.02 | 0.00 |
| 1.38 | 2.00 | 0.00 | 9.31 | 0.02 | 0.00 | 1.40 | 2.00 | 0.00 | 9.30 | 0.02 | 0.00 |
| 1.42 | 2.00 | 0.00 | 9.29 | 0.02 | 0.00 | 1.44 | 2.00 | 0.00 | 9.28 | 0.02 | 0.00 |
| 1.46 | 2.00 | 0.00 | 9.27 | 0.02 | 0.00 | 1.48 | 2.00 | 0.00 | 9.26 | 0.02 | 0.00 |
| 1.50 | 2.00 | 0.00 | 9.25 | 0.02 | 0.00 | 1.52 | 2.00 | 0.00 | 9.24 | 0.02 | 0.00 |
| 1.54 | 2.00 | 0.00 | 9.23 | 0.02 | 0.00 | 1.56 | 2.00 | 0.00 | 9.22 | 0.02 | 0.00 |
| 1.58 | 2.00 | 0.00 | 9.21 | 0.02 | 0.00 | 1.60 | 2.00 | 0.00 | 9.20 | 0.02 | 0.00 |
| 1.62 | 2.00 | 0.00 | 9.19 | 0.02 | 0.00 | 1.64 | 2.00 | 0.00 | 9.18 | 0.02 | 0.00 |
| 1.66 | 2.00 | 0.00 | 9.17 | 0.02 | 0.00 | 1.68 | 2.00 | 0.00 | 9.16 | 0.02 | 0.00 |
| 1.70 | 2.00 | 0.00 | 9.15 | 0.02 | 0.00 | 1.72 | 2.00 | 0.00 | 9.14 | 0.02 | 0.00 |
| 1.74 | 2.00 | 0.00 | 9.13 | 0.02 | 0.00 | 1.76 | 2.00 | 0.00 | 9.12 | 0.02 | 0.00 |
| 1.78 | 2.00 | 0.00 | 9.11 | 0.02 | 0.00 | 1.80 | 2.00 | 0.00 | 9.10 | 0.02 | 0.00 |
| 1.82 | 2.00 | 0.00 | 9.09 | 0.02 | 0.00 | 1.84 | 2.00 | 0.00 | 9.08 | 0.02 | 0.00 |
| 1.86 | 2.00 | 0.00 | 9.07 | 0.02 | 0.00 | 1.88 | 2.00 | 0.00 | 9.06 | 0.02 | 0.00 |
| 1.90 | 2.00 | 0.00 | 9.05 | 0.02 | 0.00 | 1.92 | 2.00 | 0.00 | 9.04 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 1.94 | 2.00 | 0.00 | 9.03 | 0.02 | 0.00 | 1.96 | 2.00 | 0.00 | 9.02 | 0.02 | 0.00 |
| 1.98 | 2.00 | 0.00 | 9.01 | 0.02 | 0.00 | 2.00 | 2.00 | 0.00 | 9.00 | 0.02 | 0.00 |
| 2.02 | 2.00 | 0.00 | 8.99 | 0.02 | 0.00 | 2.04 | 2.00 | 0.00 | 8.98 | 0.02 | 0.00 |
| 2.06 | 2.00 | 0.00 | 8.97 | 0.02 | 0.00 | 2.08 | 2.00 | 0.00 | 8.96 | 0.02 | 0.00 |
| 2.10 | 2.00 | 0.00 | 8.95 | 0.02 | 0.00 | 2.12 | 2.00 | 0.00 | 8.94 | 0.02 | 0.00 |
| 2.14 | 2.00 | 0.00 | 8.93 | 0.02 | 0.00 | 2.16 | 2.00 | 0.00 | 8.92 | 0.02 | 0.00 |
| 2.18 | 2.00 | 0.00 | 8.91 | 0.02 | 0.00 | 2.20 | 2.00 | 0.00 | 8.90 | 0.02 | 0.00 |
| 2.22 | 2.00 | 0.00 | 8.89 | 0.02 | 0.00 | 2.24 | 2.00 | 0.00 | 8.88 | 0.02 | 0.00 |
| 2.26 | 2.00 | 0.00 | 8.87 | 0.02 | 0.00 | 2.28 | 2.00 | 0.00 | 8.86 | 0.02 | 0.00 |
| 2.30 | 2.00 | 0.00 | 8.85 | 0.02 | 0.00 | 2.32 | 2.00 | 0.00 | 8.84 | 0.02 | 0.00 |
| 2.34 | 2.00 | 0.00 | 8.83 | 0.02 | 0.00 | 2.36 | 2.00 | 0.00 | 8.82 | 0.02 | 0.00 |
| 2.38 | 2.00 | 0.00 | 8.81 | 0.02 | 0.00 | 2.40 | 2.00 | 0.00 | 8.80 | 0.02 | 0.00 |
| 2.42 | 2.00 | 0.00 | 8.79 | 0.02 | 0.00 | 2.44 | 2.00 | 0.00 | 8.78 | 0.02 | 0.00 |
| 2.46 | 2.00 | 0.00 | 8.77 | 0.02 | 0.00 | 2.48 | 2.00 | 0.00 | 8.76 | 0.02 | 0.00 |
| 2.50 | 2.00 | 0.00 | 8.75 | 0.02 | 0.00 | 2.52 | 2.00 | 0.00 | 8.74 | 0.02 | 0.00 |
| 2.54 | 2.00 | 0.00 | 8.73 | 0.02 | 0.00 | 2.56 | 2.00 | 0.00 | 8.72 | 0.02 | 0.00 |
| 2.58 | 2.00 | 0.00 | 8.71 | 0.02 | 0.00 | 2.60 | 2.00 | 0.00 | 8.70 | 0.02 | 0.00 |
| 2.62 | 2.00 | 0.00 | 8.69 | 0.02 | 0.00 | 2.64 | 2.00 | 0.00 | 8.68 | 0.02 | 0.00 |
| 2.66 | 2.00 | 0.00 | 8.67 | 0.02 | 0.00 | 2.68 | 2.00 | 0.00 | 8.66 | 0.02 | 0.00 |
| 2.70 | 2.00 | 0.00 | 8.65 | 0.02 | 0.00 | 2.72 | 2.00 | 0.00 | 8.64 | 0.02 | 0.00 |
| 2.74 | 2.00 | 0.00 | 8.63 | 0.02 | 0.00 | 2.76 | 2.00 | 0.00 | 8.62 | 0.02 | 0.00 |
| 2.78 | 2.00 | 0.00 | 8.61 | 0.02 | 0.00 | 2.80 | 2.00 | 0.00 | 8.60 | 0.02 | 0.00 |
| 2.82 | 2.00 | 0.00 | 8.59 | 0.02 | 0.00 | 2.84 | 2.00 | 0.00 | 8.58 | 0.02 | 0.00 |
| 2.86 | 2.00 | 0.00 | 8.57 | 0.02 | 0.00 | 2.88 | 2.00 | 0.00 | 8.56 | 0.02 | 0.00 |
| 2.90 | 2.00 | 0.00 | 8.55 | 0.02 | 0.00 | 2.92 | 2.00 | 0.00 | 8.54 | 0.02 | 0.00 |
| 2.94 | 2.00 | 0.00 | 8.53 | 0.02 | 0.00 | 2.96 | 2.00 | 0.00 | 8.52 | 0.02 | 0.00 |
| 2.98 | 2.00 | 0.00 | 8.51 | 0.02 | 0.00 | 3.00 | 2.00 | 0.00 | 8.50 | 0.02 | 0.00 |
| 3.02 | 2.00 | 0.00 | 8.49 | 0.02 | 0.00 | 3.04 | 2.00 | 0.00 | 8.48 | 0.02 | 0.00 |
| 3.06 | 2.00 | 0.00 | 8.47 | 0.02 | 0.00 | 3.08 | 2.00 | 0.00 | 8.46 | 0.02 | 0.00 |
| 3.10 | 2.00 | 0.00 | 8.45 | 0.02 | 0.00 | 3.12 | 2.00 | 0.00 | 8.44 | 0.02 | 0.00 |
| 3.14 | 2.00 | 0.00 | 8.43 | 0.02 | 0.00 | 3.16 | 2.00 | 0.00 | 8.42 | 0.02 | 0.00 |
| 3.18 | 2.00 | 0.00 | 8.41 | 0.02 | 0.00 | 3.20 | 2.00 | 0.00 | 8.40 | 0.02 | 0.00 |
| 3.22 | 2.00 | 0.00 | 8.39 | 0.02 | 0.00 | 3.24 | 2.00 | 0.00 | 8.38 | 0.02 | 0.00 |
| 3.26 | 2.00 | 0.00 | 8.37 | 0.02 | 0.00 | 3.28 | 2.00 | 0.00 | 8.36 | 0.02 | 0.00 |
| 3.30 | 2.00 | 0.00 | 8.35 | 0.02 | 0.00 | 3.32 | 2.00 | 0.00 | 8.34 | 0.02 | 0.00 |
| 3.34 | 2.00 | 0.00 | 8.33 | 0.02 | 0.00 | 3.36 | 2.00 | 0.00 | 8.32 | 0.02 | 0.00 |
| 3.38 | 2.00 | 0.00 | 8.31 | 0.02 | 0.00 | 3.40 | 2.00 | 0.00 | 8.30 | 0.02 | 0.00 |
| 3.42 | 2.00 | 0.00 | 8.29 | 0.02 | 0.00 | 3.44 | 2.00 | 0.00 | 8.28 | 0.02 | 0.00 |
| 3.46 | 2.00 | 0.00 | 8.27 | 0.02 | 0.00 | 3.48 | 2.00 | 0.00 | 8.26 | 0.02 | 0.00 |
| 3.50 | 2.00 | 0.00 | 8.25 | 0.02 | 0.00 | 3.52 | 2.00 | 0.00 | 8.24 | 0.02 | 0.00 |
| 3.54 | 2.00 | 0.00 | 8.23 | 0.02 | 0.00 | 3.56 | 2.00 | 0.00 | 8.22 | 0.02 | 0.00 |
| 3.58 | 2.00 | 0.00 | 8.21 | 0.02 | 0.00 | 3.60 | 2.00 | 0.00 | 8.20 | 0.02 | 0.00 |
| 3.62 | 0.74 | 0.26 | 8.19 | 0.02 | 0.04 | 3.64 | 2.00 | 0.00 | 8.18 | 0.02 | 0.00 |
| 3.66 | 2.00 | 0.00 | 8.17 | 0.02 | 0.00 | 3.68 | 2.00 | 0.00 | 8.16 | 0.02 | 0.00 |
| 3.70 | 2.00 | 0.00 | 8.15 | 0.02 | 0.00 | 3.72 | 2.00 | 0.00 | 8.14 | 0.02 | 0.00 |
| 3.74 | 2.00 | 0.00 | 8.13 | 0.02 | 0.00 | 3.76 | 2.00 | 0.00 | 8.12 | 0.02 | 0.00 |
| 3.78 | 2.00 | 0.00 | 8.11 | 0.02 | 0.00 | 3.80 | 0.81 | 0.19 | 8.10 | 0.02 | 0.03 |
| 3.82 | 0.78 | 0.22 | 8.09 | 0.02 | 0.03 | 3.84 | 0.77 | 0.23 | 8.08 | 0.02 | 0.04 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 3.86 | 0.76 | 0.24 | 8.07 | 0.02 | 0.04 | 3.88 | 0.76 | 0.24 | 8.06 | 0.02 | 0.04 |
| 3.90 | 0.79 | 0.21 | 8.05 | 0.02 | 0.03 | 3.92 | 0.81 | 0.19 | 8.04 | 0.02 | 0.03 |
| 3.94 | 2.00 | 0.00 | 8.03 | 0.02 | 0.00 | 3.96 | 2.00 | 0.00 | 8.02 | 0.02 | 0.00 |
| 3.98 | 2.00 | 0.00 | 8.01 | 0.02 | 0.00 | 4.00 | 2.00 | 0.00 | 8.00 | 0.02 | 0.00 |
| 4.02 | 2.00 | 0.00 | 7.99 | 0.02 | 0.00 | 4.04 | 2.00 | 0.00 | 7.98 | 0.02 | 0.00 |
| 4.06 | 2.00 | 0.00 | 7.97 | 0.02 | 0.00 | 4.08 | 2.00 | 0.00 | 7.96 | 0.02 | 0.00 |
| 4.10 | 2.00 | 0.00 | 7.95 | 0.02 | 0.00 | 4.12 | 2.00 | 0.00 | 7.94 | 0.02 | 0.00 |
| 4.14 | 2.00 | 0.00 | 7.93 | 0.02 | 0.00 | 4.16 | 2.00 | 0.00 | 7.92 | 0.02 | 0.00 |
| 4.18 | 2.00 | 0.00 | 7.91 | 0.02 | 0.00 | 4.20 | 2.00 | 0.00 | 7.90 | 0.02 | 0.00 |
| 4.22 | 2.00 | 0.00 | 7.89 | 0.02 | 0.00 | 4.24 | 0.79 | 0.21 | 7.88 | 0.02 | 0.03 |
| 4.26 | 0.81 | 0.19 | 7.87 | 0.02 | 0.03 | 4.28 | 0.83 | 0.17 | 7.86 | 0.02 | 0.03 |
| 4.30 | 0.85 | 0.15 | 7.85 | 0.02 | 0.02 | 4.32 | 0.86 | 0.14 | 7.84 | 0.02 | 0.02 |
| 4.34 | 0.88 | 0.12 | 7.83 | 0.02 | 0.02 | 4.36 | 0.89 | 0.11 | 7.82 | 0.02 | 0.02 |
| 4.38 | 0.89 | 0.11 | 7.81 | 0.02 | 0.02 | 4.40 | 2.00 | 0.00 | 7.80 | 0.02 | 0.00 |
| 4.42 | 2.00 | 0.00 | 7.79 | 0.02 | 0.00 | 4.44 | 2.00 | 0.00 | 7.78 | 0.02 | 0.00 |
| 4.46 | 2.00 | 0.00 | 7.77 | 0.02 | 0.00 | 4.48 | 2.00 | 0.00 | 7.76 | 0.02 | 0.00 |
| 4.50 | 2.00 | 0.00 | 7.75 | 0.02 | 0.00 | 4.52 | 2.00 | 0.00 | 7.74 | 0.02 | 0.00 |
| 4.54 | 2.00 | 0.00 | 7.73 | 0.02 | 0.00 | 4.56 | 0.82 | 0.18 | 7.72 | 0.02 | 0.03 |
| 4.58 | 0.87 | 0.13 | 7.71 | 0.02 | 0.02 | 4.60 | 2.00 | 0.00 | 7.70 | 0.02 | 0.00 |
| 4.62 | 2.00 | 0.00 | 7.69 | 0.02 | 0.00 | 4.64 | 2.00 | 0.00 | 7.68 | 0.02 | 0.00 |
| 4.66 | 2.00 | 0.00 | 7.67 | 0.02 | 0.00 | 4.68 | 2.00 | 0.00 | 7.66 | 0.02 | 0.00 |
| 4.70 | 0.80 | 0.20 | 7.65 | 0.02 | 0.03 | 4.72 | 0.80 | 0.20 | 7.64 | 0.02 | 0.03 |
| 4.74 | 0.75 | 0.25 | 7.63 | 0.02 | 0.04 | 4.76 | 0.90 | 0.10 | 7.62 | 0.02 | 0.02 |
| 4.78 | 0.93 | 0.07 | 7.61 | 0.02 | 0.01 | 4.80 | 0.95 | 0.05 | 7.60 | 0.02 | 0.01 |
| 4.82 | 0.98 | 0.02 | 7.59 | 0.02 | 0.00 | 4.84 | 1.01 | 0.00 | 7.58 | 0.02 | 0.00 |
| 4.86 | 0.99 | 0.01 | 7.57 | 0.02 | 0.00 | 4.88 | 0.94 | 0.06 | 7.56 | 0.02 | 0.01 |
| 4.90 | 0.90 | 0.10 | 7.55 | 0.02 | 0.01 | 4.92 | 2.00 | 0.00 | 7.54 | 0.02 | 0.00 |
| 4.94 | 2.00 | 0.00 | 7.53 | 0.02 | 0.00 | 4.96 | 2.00 | 0.00 | 7.52 | 0.02 | 0.00 |
| 4.98 | 2.00 | 0.00 | 7.51 | 0.02 | 0.00 | 5.00 | 0.86 | 0.14 | 7.50 | 0.02 | 0.02 |
| 5.02 | 0.84 | 0.16 | 7.49 | 0.02 | 0.02 | 5.04 | 0.85 | 0.15 | 7.48 | 0.02 | 0.02 |
| 5.06 | 0.90 | 0.10 | 7.47 | 0.02 | 0.01 | 5.08 | 0.94 | 0.06 | 7.46 | 0.02 | 0.01 |
| 5.10 | 0.93 | 0.07 | 7.45 | 0.02 | 0.01 | 5.12 | 0.89 | 0.11 | 7.44 | 0.02 | 0.02 |
| 5.14 | 0.85 | 0.15 | 7.43 | 0.02 | 0.02 | 5.16 | 0.87 | 0.13 | 7.42 | 0.02 | 0.02 |
| 5.18 | 0.92 | 0.08 | 7.41 | 0.02 | 0.01 | 5.20 | 0.98 | 0.02 | 7.40 | 0.02 | 0.00 |
| 5.22 | 1.02 | 0.00 | 7.39 | 0.02 | 0.00 | 5.24 | 1.03 | 0.00 | 7.38 | 0.02 | 0.00 |
| 5.26 | 1.02 | 0.00 | 7.37 | 0.02 | 0.00 | 5.28 | 1.01 | 0.00 | 7.36 | 0.02 | 0.00 |
| 5.30 | 1.00 | 0.00 | 7.35 | 0.02 | 0.00 | 5.32 | 0.99 | 0.01 | 7.34 | 0.02 | 0.00 |
| 5.34 | 0.99 | 0.01 | 7.33 | 0.02 | 0.00 | 5.36 | 1.00 | 0.00 | 7.32 | 0.02 | 0.00 |
| 5.38 | 1.03 | 0.00 | 7.31 | 0.02 | 0.00 | 5.40 | 1.05 | 0.00 | 7.30 | 0.02 | 0.00 |
| 5.42 | 1.08 | 0.00 | 7.29 | 0.02 | 0.00 | 5.44 | 2.00 | 0.00 | 7.28 | 0.02 | 0.00 |
| 5.46 | 2.00 | 0.00 | 7.27 | 0.02 | 0.00 | 5.48 | 0.92 | 0.08 | 7.26 | 0.02 | 0.01 |
| 5.50 | 0.85 | 0.15 | 7.25 | 0.02 | 0.02 | 5.52 | 0.82 | 0.18 | 7.24 | 0.02 | 0.03 |
| 5.54 | 0.84 | 0.16 | 7.23 | 0.02 | 0.02 | 5.56 | 0.87 | 0.13 | 7.22 | 0.02 | 0.02 |
| 5.58 | 0.90 | 0.10 | 7.21 | 0.02 | 0.01 | 5.60 | 0.95 | 0.05 | 7.20 | 0.02 | 0.01 |
| 5.62 | 1.00 | 0.00 | 7.19 | 0.02 | 0.00 | 5.64 | 1.02 | 0.00 | 7.18 | 0.02 | 0.00 |
| 5.66 | 0.99 | 0.01 | 7.17 | 0.02 | 0.00 | 5.68 | 0.92 | 0.08 | 7.16 | 0.02 | 0.01 |
| 5.70 | 0.87 | 0.13 | 7.15 | 0.02 | 0.02 | 5.72 | 0.87 | 0.13 | 7.14 | 0.02 | 0.02 |
| 5.74 | 0.90 | 0.10 | 7.13 | 0.02 | 0.01 | 5.76 | 0.93 | 0.07 | 7.12 | 0.02 | 0.01 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 5.78 | 0.97 | 0.03 | 7.11 | 0.02 | 0.00 | 5.80 | 1.01 | 0.00 | 7.10 | 0.02 | 0.00 |
| 5.82 | 1.02 | 0.00 | 7.09 | 0.02 | 0.00 | 5.84 | 1.02 | 0.00 | 7.08 | 0.02 | 0.00 |
| 5.86 | 1.04 | 0.00 | 7.07 | 0.02 | 0.00 | 5.88 | 1.10 | 0.00 | 7.06 | 0.02 | 0.00 |
| 5.90 | 1.16 | 0.00 | 7.05 | 0.02 | 0.00 | 5.92 | 1.22 | 0.00 | 7.04 | 0.02 | 0.00 |
| 5.94 | 1.27 | 0.00 | 7.03 | 0.02 | 0.00 | 5.96 | 1.31 | 0.00 | 7.02 | 0.02 | 0.00 |
| 5.98 | 1.34 | 0.00 | 7.01 | 0.02 | 0.00 | 6.00 | 1.33 | 0.00 | 7.00 | 0.02 | 0.00 |
| 6.02 | 1.30 | 0.00 | 6.99 | 0.02 | 0.00 | 6.04 | 1.27 | 0.00 | 6.98 | 0.02 | 0.00 |
| 6.06 | 1.25 | 0.00 | 6.97 | 0.02 | 0.00 | 6.08 | 1.23 | 0.00 | 6.96 | 0.02 | 0.00 |
| 6.10 | 1.21 | 0.00 | 6.95 | 0.02 | 0.00 | 6.12 | 1.18 | 0.00 | 6.94 | 0.02 | 0.00 |
| 6.14 | 1.16 | 0.00 | 6.93 | 0.02 | 0.00 | 6.16 | 1.14 | 0.00 | 6.92 | 0.02 | 0.00 |
| 6.18 | 1.13 | 0.00 | 6.91 | 0.02 | 0.00 | 6.20 | 1.13 | 0.00 | 6.90 | 0.02 | 0.00 |
| 6.22 | 1.14 | 0.00 | 6.89 | 0.02 | 0.00 | 6.24 | 1.14 | 0.00 | 6.88 | 0.02 | 0.00 |
| 6.26 | 1.14 | 0.00 | 6.87 | 0.02 | 0.00 | 6.28 | 1.15 | 0.00 | 6.86 | 0.02 | 0.00 |
| 6.30 | 1.15 | 0.00 | 6.85 | 0.02 | 0.00 | 6.32 | 1.16 | 0.00 | 6.84 | 0.02 | 0.00 |
| 6.34 | 1.16 | 0.00 | 6.83 | 0.02 | 0.00 | 6.36 | 1.17 | 0.00 | 6.82 | 0.02 | 0.00 |
| 6.38 | 1.17 | 0.00 | 6.81 | 0.02 | 0.00 | 6.40 | 1.18 | 0.00 | 6.80 | 0.02 | 0.00 |
| 6.42 | 1.23 | 0.00 | 6.79 | 0.02 | 0.00 | 6.44 | 1.30 | 0.00 | 6.78 | 0.02 | 0.00 |
| 6.46 | 1.35 | 0.00 | 6.77 | 0.02 | 0.00 | 6.48 | 1.37 | 0.00 | 6.76 | 0.02 | 0.00 |
| 6.50 | 1.36 | 0.00 | 6.75 | 0.02 | 0.00 | 6.52 | 1.34 | 0.00 | 6.74 | 0.02 | 0.00 |
| 6.54 | 1.30 | 0.00 | 6.73 | 0.02 | 0.00 | 6.56 | 1.26 | 0.00 | 6.72 | 0.02 | 0.00 |
| 6.58 | 1.20 | 0.00 | 6.71 | 0.02 | 0.00 | 6.60 | 1.16 | 0.00 | 6.70 | 0.02 | 0.00 |
| 6.62 | 1.13 | 0.00 | 6.69 | 0.02 | 0.00 | 6.64 | 1.12 | 0.00 | 6.68 | 0.02 | 0.00 |
| 6.66 | 1.13 | 0.00 | 6.67 | 0.02 | 0.00 | 6.68 | 1.15 | 0.00 | 6.66 | 0.02 | 0.00 |
| 6.70 | 1.16 | 0.00 | 6.65 | 0.02 | 0.00 | 6.72 | 1.15 | 0.00 | 6.64 | 0.02 | 0.00 |
| 6.74 | 1.12 | 0.00 | 6.63 | 0.02 | 0.00 | 6.76 | 1.08 | 0.00 | 6.62 | 0.02 | 0.00 |
| 6.78 | 1.05 | 0.00 | 6.61 | 0.02 | 0.00 | 6.80 | 1.05 | 0.00 | 6.60 | 0.02 | 0.00 |
| 6.82 | 1.06 | 0.00 | 6.59 | 0.02 | 0.00 | 6.84 | 1.07 | 0.00 | 6.58 | 0.02 | 0.00 |
| 6.86 | 1.07 | 0.00 | 6.57 | 0.02 | 0.00 | 6.88 | 1.08 | 0.00 | 6.56 | 0.02 | 0.00 |
| 6.90 | 1.07 | 0.00 | 6.55 | 0.02 | 0.00 | 6.92 | 1.05 | 0.00 | 6.54 | 0.02 | 0.00 |
| 6.94 | 1.04 | 0.00 | 6.53 | 0.02 | 0.00 | 6.96 | 1.06 | 0.00 | 6.52 | 0.02 | 0.00 |
| 6.98 | 1.09 | 0.00 | 6.51 | 0.02 | 0.00 | 7.00 | 1.12 | 0.00 | 6.50 | 0.02 | 0.00 |
| 7.02 | 1.14 | 0.00 | 6.49 | 0.02 | 0.00 | 7.04 | 1.17 | 0.00 | 6.48 | 0.02 | 0.00 |
| 7.06 | 1.20 | 0.00 | 6.47 | 0.02 | 0.00 | 7.08 | 1.23 | 0.00 | 6.46 | 0.02 | 0.00 |
| 7.10 | 1.26 | 0.00 | 6.45 | 0.02 | 0.00 | 7.12 | 1.28 | 0.00 | 6.44 | 0.02 | 0.00 |
| 7.14 | 1.28 | 0.00 | 6.43 | 0.02 | 0.00 | 7.16 | 1.28 | 0.00 | 6.42 | 0.02 | 0.00 |
| 7.18 | 1.28 | 0.00 | 6.41 | 0.02 | 0.00 | 7.20 | 1.29 | 0.00 | 6.40 | 0.02 | 0.00 |
| 7.22 | 1.30 | 0.00 | 6.39 | 0.02 | 0.00 | 7.24 | 1.32 | 0.00 | 6.38 | 0.02 | 0.00 |
| 7.26 | 1.35 | 0.00 | 6.37 | 0.02 | 0.00 | 7.28 | 1.38 | 0.00 | 6.36 | 0.02 | 0.00 |
| 7.30 | 1.40 | 0.00 | 6.35 | 0.02 | 0.00 | 7.32 | 1.42 | 0.00 | 6.34 | 0.02 | 0.00 |
| 7.34 | 1.44 | 0.00 | 6.33 | 0.02 | 0.00 | 7.36 | 1.47 | 0.00 | 6.32 | 0.02 | 0.00 |
| 7.38 | 1.51 | 0.00 | 6.31 | 0.02 | 0.00 | 7.40 | 1.55 | 0.00 | 6.30 | 0.02 | 0.00 |
| 7.42 | 1.58 | 0.00 | 6.29 | 0.02 | 0.00 | 7.44 | 1.60 | 0.00 | 6.28 | 0.02 | 0.00 |
| 7.46 | 1.60 | 0.00 | 6.27 | 0.02 | 0.00 | 7.48 | 1.56 | 0.00 | 6.26 | 0.02 | 0.00 |
| 7.50 | 1.51 | 0.00 | 6.25 | 0.02 | 0.00 | 7.52 | 1.44 | 0.00 | 6.24 | 0.02 | 0.00 |
| 7.54 | 1.38 | 0.00 | 6.23 | 0.02 | 0.00 | 7.56 | 1.32 | 0.00 | 6.22 | 0.02 | 0.00 |
| 7.58 | 1.27 | 0.00 | 6.21 | 0.02 | 0.00 | 7.60 | 1.23 | 0.00 | 6.20 | 0.02 | 0.00 |
| 7.62 | 1.20 | 0.00 | 6.19 | 0.02 | 0.00 | 7.64 | 1.18 | 0.00 | 6.18 | 0.02 | 0.00 |
| 7.66 | 1.15 | 0.00 | 6.17 | 0.02 | 0.00 | 7.68 | 1.14 | 0.00 | 6.16 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 7.70 | 1.13 | 0.00 | 6.15 | 0.02 | 0.00 | 7.72 | 1.13 | 0.00 | 6.14 | 0.02 | 0.00 |
| 7.74 | 1.12 | 0.00 | 6.13 | 0.02 | 0.00 | 7.76 | 1.12 | 0.00 | 6.12 | 0.02 | 0.00 |
| 7.78 | 1.12 | 0.00 | 6.11 | 0.02 | 0.00 | 7.80 | 1.13 | 0.00 | 6.10 | 0.02 | 0.00 |
| 7.82 | 1.14 | 0.00 | 6.09 | 0.02 | 0.00 | 7.84 | 1.14 | 0.00 | 6.08 | 0.02 | 0.00 |
| 7.86 | 1.14 | 0.00 | 6.07 | 0.02 | 0.00 | 7.88 | 1.14 | 0.00 | 6.06 | 0.02 | 0.00 |
| 7.90 | 1.15 | 0.00 | 6.05 | 0.02 | 0.00 | 7.92 | 1.16 | 0.00 | 6.04 | 0.02 | 0.00 |
| 7.94 | 1.17 | 0.00 | 6.03 | 0.02 | 0.00 | 7.96 | 1.18 | 0.00 | 6.02 | 0.02 | 0.00 |
| 7.98 | 1.20 | 0.00 | 6.01 | 0.02 | 0.00 | 8.00 | 1.22 | 0.00 | 6.00 | 0.02 | 0.00 |
| 8.02 | 1.25 | 0.00 | 5.99 | 0.02 | 0.00 | 8.04 | 1.30 | 0.00 | 5.98 | 0.02 | 0.00 |
| 8.06 | 1.37 | 0.00 | 5.97 | 0.02 | 0.00 | 8.08 | 1.30 | 0.00 | 5.96 | 0.02 | 0.00 |
| 8.10 | 1.35 | 0.00 | 5.95 | 0.02 | 0.00 | 8.12 | 1.35 | 0.00 | 5.94 | 0.02 | 0.00 |
| 8.14 | 1.32 | 0.00 | 5.93 | 0.02 | 0.00 | 8.16 | 1.29 | 0.00 | 5.92 | 0.02 | 0.00 |
| 8.18 | 1.25 | 0.00 | 5.91 | 0.02 | 0.00 | 8.20 | 1.22 | 0.00 | 5.90 | 0.02 | 0.00 |
| 8.22 | 1.19 | 0.00 | 5.89 | 0.02 | 0.00 | 8.24 | 1.18 | 0.00 | 5.88 | 0.02 | 0.00 |
| 8.26 | 1.17 | 0.00 | 5.87 | 0.02 | 0.00 | 8.28 | 1.31 | 0.00 | 5.86 | 0.02 | 0.00 |
| 8.30 | 1.27 | 0.00 | 5.85 | 0.02 | 0.00 | 8.32 | 1.25 | 0.00 | 5.84 | 0.02 | 0.00 |
| 8.34 | 1.24 | 0.00 | 5.83 | 0.02 | 0.00 | 8.36 | 1.12 | 0.00 | 5.82 | 0.02 | 0.00 |
| 8.38 | 1.22 | 0.00 | 5.81 | 0.02 | 0.00 | 8.40 | 1.35 | 0.00 | 5.80 | 0.02 | 0.00 |
| 8.42 | 1.44 | 0.00 | 5.79 | 0.02 | 0.00 | 8.44 | 1.44 | 0.00 | 5.78 | 0.02 | 0.00 |
| 8.46 | 1.51 | 0.00 | 5.77 | 0.02 | 0.00 | 8.48 | 1.44 | 0.00 | 5.76 | 0.02 | 0.00 |
| 8.50 | 1.36 | 0.00 | 5.75 | 0.02 | 0.00 | 8.52 | 1.31 | 0.00 | 5.74 | 0.02 | 0.00 |
| 8.54 | 1.28 | 0.00 | 5.73 | 0.02 | 0.00 | 8.56 | 1.27 | 0.00 | 5.72 | 0.02 | 0.00 |
| 8.58 | 1.26 | 0.00 | 5.71 | 0.02 | 0.00 | 8.60 | 1.28 | 0.00 | 5.70 | 0.02 | 0.00 |
| 8.62 | 1.35 | 0.00 | 5.69 | 0.02 | 0.00 | 8.64 | 1.32 | 0.00 | 5.68 | 0.02 | 0.00 |
| 8.66 | 1.47 | 0.00 | 5.67 | 0.02 | 0.00 | 8.68 | 1.52 | 0.00 | 5.66 | 0.02 | 0.00 |
| 8.70 | 1.44 | 0.00 | 5.65 | 0.02 | 0.00 | 8.72 | 1.31 | 0.00 | 5.64 | 0.02 | 0.00 |
| 8.74 | 1.36 | 0.00 | 5.63 | 0.02 | 0.00 | 8.76 | 1.26 | 0.00 | 5.62 | 0.02 | 0.00 |
| 8.78 | 1.17 | 0.00 | 5.61 | 0.02 | 0.00 | 8.80 | 1.08 | 0.00 | 5.60 | 0.02 | 0.00 |
| 8.82 | 1.01 | 0.00 | 5.59 | 0.02 | 0.00 | 8.84 | 0.83 | 0.17 | 5.58 | 0.02 | 0.02 |
| 8.86 | 0.81 | 0.19 | 5.57 | 0.02 | 0.02 | 8.88 | 0.80 | 0.20 | 5.56 | 0.02 | 0.02 |
| 8.90 | 0.80 | 0.20 | 5.55 | 0.02 | 0.02 | 8.92 | 0.79 | 0.21 | 5.54 | 0.02 | 0.02 |
| 8.94 | 0.78 | 0.22 | 5.53 | 0.02 | 0.02 | 8.96 | 0.76 | 0.24 | 5.52 | 0.02 | 0.03 |
| 8.98 | 0.74 | 0.26 | 5.51 | 0.02 | 0.03 | 9.00 | 0.86 | 0.14 | 5.50 | 0.02 | 0.02 |
| 9.02 | 0.91 | 0.09 | 5.49 | 0.02 | 0.01 | 9.04 | 0.98 | 0.02 | 5.48 | 0.02 | 0.00 |
| 9.06 | 1.04 | 0.00 | 5.47 | 0.02 | 0.00 | 9.08 | 2.00 | 0.00 | 5.46 | 0.02 | 0.00 |
| 9.10 | 2.00 | 0.00 | 5.45 | 0.02 | 0.00 | 9.12 | 2.00 | 0.00 | 5.44 | 0.02 | 0.00 |
| 9.14 | 2.00 | 0.00 | 5.43 | 0.02 | 0.00 | 9.16 | 2.00 | 0.00 | 5.42 | 0.02 | 0.00 |
| 9.18 | 2.00 | 0.00 | 5.41 | 0.02 | 0.00 | 9.20 | 2.00 | 0.00 | 5.40 | 0.02 | 0.00 |
| 9.22 | 2.00 | 0.00 | 5.39 | 0.02 | 0.00 | 9.24 | 2.00 | 0.00 | 5.38 | 0.02 | 0.00 |
| 9.26 | 2.00 | 0.00 | 5.37 | 0.02 | 0.00 | 9.28 | 2.00 | 0.00 | 5.36 | 0.02 | 0.00 |
| 9.30 | 2.00 | 0.00 | 5.35 | 0.02 | 0.00 | 9.32 | 2.00 | 0.00 | 5.34 | 0.02 | 0.00 |
| 9.34 | 2.00 | 0.00 | 5.33 | 0.02 | 0.00 | 9.36 | 2.00 | 0.00 | 5.32 | 0.02 | 0.00 |
| 9.38 | 2.00 | 0.00 | 5.31 | 0.02 | 0.00 | 9.40 | 2.00 | 0.00 | 5.30 | 0.02 | 0.00 |
| 9.42 | 2.00 | 0.00 | 5.29 | 0.02 | 0.00 | 9.44 | 2.00 | 0.00 | 5.28 | 0.02 | 0.00 |
| 9.46 | 2.00 | 0.00 | 5.27 | 0.02 | 0.00 | 9.48 | 2.00 | 0.00 | 5.26 | 0.02 | 0.00 |
| 9.50 | 2.00 | 0.00 | 5.25 | 0.02 | 0.00 | 9.52 | 2.00 | 0.00 | 5.24 | 0.02 | 0.00 |
| 9.54 | 2.00 | 0.00 | 5.23 | 0.02 | 0.00 | 9.56 | 2.00 | 0.00 | 5.22 | 0.02 | 0.00 |
| 9.58 | 2.00 | 0.00 | 5.21 | 0.02 | 0.00 | 9.60 | 2.00 | 0.00 | 5.20 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 9.62 | 2.00 | 0.00 | 5.19 | 0.02 | 0.00 | 9.64 | 2.00 | 0.00 | 5.18 | 0.02 | 0.00 |
| 9.66 | 2.00 | 0.00 | 5.17 | 0.02 | 0.00 | 9.68 | 2.00 | 0.00 | 5.16 | 0.02 | 0.00 |
| 9.70 | 2.00 | 0.00 | 5.15 | 0.02 | 0.00 | 9.72 | 2.00 | 0.00 | 5.14 | 0.02 | 0.00 |
| 9.74 | 2.00 | 0.00 | 5.13 | 0.02 | 0.00 | 9.76 | 2.00 | 0.00 | 5.12 | 0.02 | 0.00 |
| 9.78 | 2.00 | 0.00 | 5.11 | 0.02 | 0.00 | 9.80 | 2.00 | 0.00 | 5.10 | 0.02 | 0.00 |
| 9.82 | 2.00 | 0.00 | 5.09 | 0.02 | 0.00 | 9.84 | 2.00 | 0.00 | 5.08 | 0.02 | 0.00 |
| 9.86 | 2.00 | 0.00 | 5.07 | 0.02 | 0.00 | 9.88 | 2.00 | 0.00 | 5.06 | 0.02 | 0.00 |
| 9.90 | 2.00 | 0.00 | 5.05 | 0.02 | 0.00 | 9.92 | 2.00 | 0.00 | 5.04 | 0.02 | 0.00 |
| 9.94 | 2.00 | 0.00 | 5.03 | 0.02 | 0.00 | 9.96 | 2.00 | 0.00 | 5.02 | 0.02 | 0.00 |
| 9.98 | 2.00 | 0.00 | 5.01 | 0.02 | 0.00 | 10.00 | 2.00 | 0.00 | 5.00 | 0.02 | 0.00 |
| 10.02 | 2.00 | 0.00 | 4.99 | 0.02 | 0.00 | 10.04 | 2.00 | 0.00 | 4.98 | 0.02 | 0.00 |
| 10.06 | 2.00 | 0.00 | 4.97 | 0.02 | 0.00 | 10.08 | 2.00 | 0.00 | 4.96 | 0.02 | 0.00 |
| 10.10 | 2.00 | 0.00 | 4.95 | 0.02 | 0.00 | 10.12 | 2.00 | 0.00 | 4.94 | 0.02 | 0.00 |
| 10.14 | 0.91 | 0.09 | 4.93 | 0.02 | 0.01 | 10.16 | 0.97 | 0.03 | 4.92 | 0.02 | 0.00 |
| 10.18 | 1.01 | 0.00 | 4.91 | 0.02 | 0.00 | 10.20 | 1.03 | 0.00 | 4.90 | 0.02 | 0.00 |
| 10.22 | 1.04 | 0.00 | 4.89 | 0.02 | 0.00 | 10.24 | 1.05 | 0.00 | 4.88 | 0.02 | 0.00 |
| 10.26 | 1.05 | 0.00 | 4.87 | 0.02 | 0.00 | 10.28 | 1.01 | 0.00 | 4.86 | 0.02 | 0.00 |
| 10.30 | 0.97 | 0.03 | 4.85 | 0.02 | 0.00 | 10.32 | 0.94 | 0.06 | 4.84 | 0.02 | 0.01 |
| 10.34 | 0.93 | 0.07 | 4.83 | 0.02 | 0.01 | 10.36 | 0.94 | 0.06 | 4.82 | 0.02 | 0.01 |
| 10.38 | 0.99 | 0.01 | 4.81 | 0.02 | 0.00 | 10.40 | 1.04 | 0.00 | 4.80 | 0.02 | 0.00 |
| 10.42 | 1.06 | 0.00 | 4.79 | 0.02 | 0.00 | 10.44 | 1.06 | 0.00 | 4.78 | 0.02 | 0.00 |
| 10.46 | 1.07 | 0.00 | 4.77 | 0.02 | 0.00 | 10.48 | 1.11 | 0.00 | 4.76 | 0.02 | 0.00 |
| 10.50 | 1.17 | 0.00 | 4.75 | 0.02 | 0.00 | 10.52 | 1.23 | 0.00 | 4.74 | 0.02 | 0.00 |
| 10.54 | 1.20 | 0.00 | 4.73 | 0.02 | 0.00 | 10.56 | 1.13 | 0.00 | 4.72 | 0.02 | 0.00 |
| 10.58 | 1.07 | 0.00 | 4.71 | 0.02 | 0.00 | 10.60 | 1.05 | 0.00 | 4.70 | 0.02 | 0.00 |
| 10.62 | 1.05 | 0.00 | 4.69 | 0.02 | 0.00 | 10.64 | 1.07 | 0.00 | 4.68 | 0.02 | 0.00 |
| 10.66 | 1.10 | 0.00 | 4.67 | 0.02 | 0.00 | 10.68 | 1.13 | 0.00 | 4.66 | 0.02 | 0.00 |
| 10.70 | 1.18 | 0.00 | 4.65 | 0.02 | 0.00 | 10.72 | 1.24 | 0.00 | 4.64 | 0.02 | 0.00 |
| 10.74 | 1.30 | 0.00 | 4.63 | 0.02 | 0.00 | 10.76 | 1.38 | 0.00 | 4.62 | 0.02 | 0.00 |
| 10.78 | 2.00 | 0.00 | 4.61 | 0.02 | 0.00 | 10.80 | 2.00 | 0.00 | 4.60 | 0.02 | 0.00 |
| 10.82 | 2.00 | 0.00 | 4.59 | 0.02 | 0.00 | 10.84 | 2.00 | 0.00 | 4.58 | 0.02 | 0.00 |
| 10.86 | 2.00 | 0.00 | 4.57 | 0.02 | 0.00 | 10.88 | 2.00 | 0.00 | 4.56 | 0.02 | 0.00 |
| 10.90 | 1.03 | 0.00 | 4.55 | 0.02 | 0.00 | 10.92 | 1.00 | 0.00 | 4.54 | 0.02 | 0.00 |
| 10.94 | 1.01 | 0.00 | 4.53 | 0.02 | 0.00 | 10.96 | 1.04 | 0.00 | 4.52 | 0.02 | 0.00 |
| 10.98 | 1.05 | 0.00 | 4.51 | 0.02 | 0.00 | 11.00 | 1.01 | 0.00 | 4.50 | 0.02 | 0.00 |
| 11.02 | 1.00 | 0.00 | 4.49 | 0.02 | 0.00 | 11.04 | 1.04 | 0.00 | 4.48 | 0.02 | 0.00 |
| 11.06 | 1.09 | 0.00 | 4.47 | 0.02 | 0.00 | 11.08 | 1.16 | 0.00 | 4.46 | 0.02 | 0.00 |
| 11.10 | 1.21 | 0.00 | 4.45 | 0.02 | 0.00 | 11.12 | 2.00 | 0.00 | 4.44 | 0.02 | 0.00 |
| 11.14 | 2.00 | 0.00 | 4.43 | 0.02 | 0.00 | 11.16 | 2.00 | 0.00 | 4.42 | 0.02 | 0.00 |
| 11.18 | 2.00 | 0.00 | 4.41 | 0.02 | 0.00 | 11.20 | 2.00 | 0.00 | 4.40 | 0.02 | 0.00 |
| 11.22 | 2.00 | 0.00 | 4.39 | 0.02 | 0.00 | 11.24 | 2.00 | 0.00 | 4.38 | 0.02 | 0.00 |
| 11.26 | 2.00 | 0.00 | 4.37 | 0.02 | 0.00 | 11.28 | 2.00 | 0.00 | 4.36 | 0.02 | 0.00 |
| 11.30 | 2.00 | 0.00 | 4.35 | 0.02 | 0.00 | 11.32 | 2.00 | 0.00 | 4.34 | 0.02 | 0.00 |
| 11.34 | 2.00 | 0.00 | 4.33 | 0.02 | 0.00 | 11.36 | 2.00 | 0.00 | 4.32 | 0.02 | 0.00 |
| 11.38 | 2.00 | 0.00 | 4.31 | 0.02 | 0.00 | 11.40 | 2.00 | 0.00 | 4.30 | 0.02 | 0.00 |
| 11.42 | 2.00 | 0.00 | 4.29 | 0.02 | 0.00 | 11.44 | 2.00 | 0.00 | 4.28 | 0.02 | 0.00 |
| 11.46 | 2.00 | 0.00 | 4.27 | 0.02 | 0.00 | 11.48 | 2.00 | 0.00 | 4.26 | 0.02 | 0.00 |
| 11.50 | 2.00 | 0.00 | 4.25 | 0.02 | 0.00 | 11.52 | 2.00 | 0.00 | 4.24 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 11.54 | 2.00 | 0.00 | 4.23 | 0.02 | 0.00 | 11.56 | 2.00 | 0.00 | 4.22 | 0.02 | 0.00 |
| 11.58 | 2.00 | 0.00 | 4.21 | 0.02 | 0.00 | 11.60 | 2.00 | 0.00 | 4.20 | 0.02 | 0.00 |
| 11.62 | 2.00 | 0.00 | 4.19 | 0.02 | 0.00 | 11.64 | 2.00 | 0.00 | 4.18 | 0.02 | 0.00 |
| 11.66 | 2.00 | 0.00 | 4.17 | 0.02 | 0.00 | 11.68 | 2.00 | 0.00 | 4.16 | 0.02 | 0.00 |
| 11.70 | 2.00 | 0.00 | 4.15 | 0.02 | 0.00 | 11.72 | 2.00 | 0.00 | 4.14 | 0.02 | 0.00 |
| 11.74 | 2.00 | 0.00 | 4.13 | 0.02 | 0.00 | 11.76 | 2.00 | 0.00 | 4.12 | 0.02 | 0.00 |
| 11.78 | 2.00 | 0.00 | 4.11 | 0.02 | 0.00 | 11.80 | 2.00 | 0.00 | 4.10 | 0.02 | 0.00 |
| 11.82 | 2.00 | 0.00 | 4.09 | 0.02 | 0.00 | 11.84 | 2.00 | 0.00 | 4.08 | 0.02 | 0.00 |
| 11.86 | 2.00 | 0.00 | 4.07 | 0.02 | 0.00 | 11.88 | 2.00 | 0.00 | 4.06 | 0.02 | 0.00 |
| 11.90 | 2.00 | 0.00 | 4.05 | 0.02 | 0.00 | 11.92 | 2.00 | 0.00 | 4.04 | 0.02 | 0.00 |
| 11.94 | 1.00 | 0.00 | 4.03 | 0.02 | 0.00 | 11.96 | 1.03 | 0.00 | 4.02 | 0.02 | 0.00 |
| 11.98 | 2.00 | 0.00 | 4.01 | 0.02 | 0.00 | 12.00 | 2.00 | 0.00 | 4.00 | 0.02 | 0.00 |
| 12.02 | 2.00 | 0.00 | 3.99 | 0.02 | 0.00 | 12.04 | 2.00 | 0.00 | 3.98 | 0.02 | 0.00 |
| 12.06 | 2.00 | 0.00 | 3.97 | 0.02 | 0.00 | 12.08 | 2.00 | 0.00 | 3.96 | 0.02 | 0.00 |
| 12.10 | 2.00 | 0.00 | 3.95 | 0.02 | 0.00 | 12.12 | 2.00 | 0.00 | 3.94 | 0.02 | 0.00 |
| 12.14 | 2.00 | 0.00 | 3.93 | 0.02 | 0.00 | 12.16 | 2.00 | 0.00 | 3.92 | 0.02 | 0.00 |
| 12.18 | 2.00 | 0.00 | 3.91 | 0.02 | 0.00 | 12.20 | 2.00 | 0.00 | 3.90 | 0.02 | 0.00 |
| 12.22 | 2.00 | 0.00 | 3.89 | 0.02 | 0.00 | 12.24 | 2.00 | 0.00 | 3.88 | 0.02 | 0.00 |
| 12.26 | 2.00 | 0.00 | 3.87 | 0.02 | 0.00 | 12.28 | 2.00 | 0.00 | 3.86 | 0.02 | 0.00 |
| 12.30 | 2.00 | 0.00 | 3.85 | 0.02 | 0.00 | 12.32 | 2.00 | 0.00 | 3.84 | 0.02 | 0.00 |
| 12.34 | 2.00 | 0.00 | 3.83 | 0.02 | 0.00 | 12.36 | 2.00 | 0.00 | 3.82 | 0.02 | 0.00 |
| 12.38 | 2.00 | 0.00 | 3.81 | 0.02 | 0.00 | 12.40 | 2.00 | 0.00 | 3.80 | 0.02 | 0.00 |
| 12.42 | 2.00 | 0.00 | 3.79 | 0.02 | 0.00 | 12.44 | 2.00 | 0.00 | 3.78 | 0.02 | 0.00 |
| 12.46 | 2.00 | 0.00 | 3.77 | 0.02 | 0.00 | 12.48 | 2.00 | 0.00 | 3.76 | 0.02 | 0.00 |
| 12.50 | 2.00 | 0.00 | 3.75 | 0.02 | 0.00 | 12.52 | 2.00 | 0.00 | 3.74 | 0.02 | 0.00 |
| 12.54 | 2.00 | 0.00 | 3.73 | 0.02 | 0.00 | 12.56 | 2.00 | 0.00 | 3.72 | 0.02 | 0.00 |
| 12.58 | 2.00 | 0.00 | 3.71 | 0.02 | 0.00 | 12.60 | 2.00 | 0.00 | 3.70 | 0.02 | 0.00 |
| 12.62 | 2.00 | 0.00 | 3.69 | 0.02 | 0.00 | 12.64 | 2.00 | 0.00 | 3.68 | 0.02 | 0.00 |
| 12.66 | 2.00 | 0.00 | 3.67 | 0.02 | 0.00 | 12.68 | 2.00 | 0.00 | 3.66 | 0.02 | 0.00 |
| 12.70 | 2.00 | 0.00 | 3.65 | 0.02 | 0.00 | 12.72 | 2.00 | 0.00 | 3.64 | 0.02 | 0.00 |
| 12.74 | 2.00 | 0.00 | 3.63 | 0.02 | 0.00 | 12.76 | 2.00 | 0.00 | 3.62 | 0.02 | 0.00 |
| 12.78 | 2.00 | 0.00 | 3.61 | 0.02 | 0.00 | 12.80 | 2.00 | 0.00 | 3.60 | 0.02 | 0.00 |
| 12.82 | 2.00 | 0.00 | 3.59 | 0.02 | 0.00 | 12.84 | 2.00 | 0.00 | 3.58 | 0.02 | 0.00 |
| 12.86 | 2.00 | 0.00 | 3.57 | 0.02 | 0.00 | 12.88 | 2.00 | 0.00 | 3.56 | 0.02 | 0.00 |
| 12.90 | 2.00 | 0.00 | 3.55 | 0.02 | 0.00 | 12.92 | 2.00 | 0.00 | 3.54 | 0.02 | 0.00 |
| 12.94 | 2.00 | 0.00 | 3.53 | 0.02 | 0.00 | 12.96 | 2.00 | 0.00 | 3.52 | 0.02 | 0.00 |
| 12.98 | 2.00 | 0.00 | 3.51 | 0.02 | 0.00 | 13.00 | 2.00 | 0.00 | 3.50 | 0.02 | 0.00 |
| 13.02 | 2.00 | 0.00 | 3.49 | 0.02 | 0.00 | 13.04 | 2.00 | 0.00 | 3.48 | 0.02 | 0.00 |
| 13.06 | 2.00 | 0.00 | 3.47 | 0.02 | 0.00 | 13.08 | 0.99 | 0.01 | 3.46 | 0.02 | 0.00 |
| 13.10 | 1.02 | 0.00 | 3.45 | 0.02 | 0.00 | 13.12 | 1.06 | 0.00 | 3.44 | 0.02 | 0.00 |
| 13.14 | 1.07 | 0.00 | 3.43 | 0.02 | 0.00 | 13.16 | 1.06 | 0.00 | 3.42 | 0.02 | 0.00 |
| 13.18 | 1.05 | 0.00 | 3.41 | 0.02 | 0.00 | 13.20 | 1.05 | 0.00 | 3.40 | 0.02 | 0.00 |
| 13.22 | 1.09 | 0.00 | 3.39 | 0.02 | 0.00 | 13.24 | 1.19 | 0.00 | 3.38 | 0.02 | 0.00 |
| 13.26 | 1.32 | 0.00 | 3.37 | 0.02 | 0.00 | 13.28 | 1.41 | 0.00 | 3.36 | 0.02 | 0.00 |
| 13.30 | 1.43 | 0.00 | 3.35 | 0.02 | 0.00 | 13.32 | 1.41 | 0.00 | 3.34 | 0.02 | 0.00 |
| 13.34 | 1.37 | 0.00 | 3.33 | 0.02 | 0.00 | 13.36 | 1.36 | 0.00 | 3.32 | 0.02 | 0.00 |
| 13.38 | 1.39 | 0.00 | 3.31 | 0.02 | 0.00 | 13.40 | 1.49 | 0.00 | 3.30 | 0.02 | 0.00 |
| 13.42 | 1.58 | 0.00 | 3.29 | 0.02 | 0.00 | 13.44 | 1.57 | 0.00 | 3.28 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 13.46 | 1.47 | 0.00 | 3.27 | 0.02 | 0.00 | 13.48 | 2.00 | 0.00 | 3.26 | 0.02 | 0.00 |
| 13.50 | 1.24 | 0.00 | 3.25 | 0.02 | 0.00 | 13.52 | 1.13 | 0.00 | 3.24 | 0.02 | 0.00 |
| 13.54 | 1.21 | 0.00 | 3.23 | 0.02 | 0.00 | 13.56 | 1.41 | 0.00 | 3.22 | 0.02 | 0.00 |
| 13.58 | 1.55 | 0.00 | 3.21 | 0.02 | 0.00 | 13.60 | 1.55 | 0.00 | 3.20 | 0.02 | 0.00 |
| 13.62 | 1.48 | 0.00 | 3.19 | 0.02 | 0.00 | 13.64 | 1.40 | 0.00 | 3.18 | 0.02 | 0.00 |
| 13.66 | 1.33 | 0.00 | 3.17 | 0.02 | 0.00 | 13.68 | 1.27 | 0.00 | 3.16 | 0.02 | 0.00 |
| 13.70 | 1.22 | 0.00 | 3.15 | 0.02 | 0.00 | 13.72 | 1.18 | 0.00 | 3.14 | 0.02 | 0.00 |
| 13.74 | 1.16 | 0.00 | 3.13 | 0.02 | 0.00 | 13.76 | 1.15 | 0.00 | 3.12 | 0.02 | 0.00 |
| 13.78 | 1.13 | 0.00 | 3.11 | 0.02 | 0.00 | 13.80 | 1.13 | 0.00 | 3.10 | 0.02 | 0.00 |
| 13.82 | 1.15 | 0.00 | 3.09 | 0.02 | 0.00 | 13.84 | 1.18 | 0.00 | 3.08 | 0.02 | 0.00 |
| 13.86 | 1.21 | 0.00 | 3.07 | 0.02 | 0.00 | 13.88 | 1.26 | 0.00 | 3.06 | 0.02 | 0.00 |
| 13.90 | 1.25 | 0.00 | 3.05 | 0.02 | 0.00 | 13.92 | 1.25 | 0.00 | 3.04 | 0.02 | 0.00 |
| 13.94 | 1.21 | 0.00 | 3.03 | 0.02 | 0.00 | 13.96 | 1.24 | 0.00 | 3.02 | 0.02 | 0.00 |
| 13.98 | 1.26 | 0.00 | 3.01 | 0.02 | 0.00 | 14.00 | 1.27 | 0.00 | 3.00 | 0.02 | 0.00 |
| 14.02 | 1.25 | 0.00 | 2.99 | 0.02 | 0.00 | 14.04 | 1.24 | 0.00 | 2.98 | 0.02 | 0.00 |
| 14.06 | 1.23 | 0.00 | 2.97 | 0.02 | 0.00 | 14.08 | 1.25 | 0.00 | 2.96 | 0.02 | 0.00 |
| 14.10 | 1.31 | 0.00 | 2.95 | 0.02 | 0.00 | 14.12 | 1.42 | 0.00 | 2.94 | 0.02 | 0.00 |
| 14.14 | 1.51 | 0.00 | 2.93 | 0.02 | 0.00 | 14.16 | 1.48 | 0.00 | 2.92 | 0.02 | 0.00 |
| 14.18 | 1.40 | 0.00 | 2.91 | 0.02 | 0.00 | 14.20 | 1.30 | 0.00 | 2.90 | 0.02 | 0.00 |
| 14.22 | 1.23 | 0.00 | 2.89 | 0.02 | 0.00 | 14.24 | 1.24 | 0.00 | 2.88 | 0.02 | 0.00 |
| 14.26 | 1.37 | 0.00 | 2.87 | 0.02 | 0.00 | 14.28 | 1.56 | 0.00 | 2.86 | 0.02 | 0.00 |
| 14.30 | 1.68 | 0.00 | 2.85 | 0.02 | 0.00 | 14.32 | 1.70 | 0.00 | 2.84 | 0.02 | 0.00 |
| 14.34 | 1.63 | 0.00 | 2.83 | 0.02 | 0.00 | 14.36 | 1.56 | 0.00 | 2.82 | 0.02 | 0.00 |
| 14.38 | 1.52 | 0.00 | 2.81 | 0.02 | 0.00 | 14.40 | 1.50 | 0.00 | 2.80 | 0.02 | 0.00 |
| 14.42 | 1.47 | 0.00 | 2.79 | 0.02 | 0.00 | 14.44 | 1.45 | 0.00 | 2.78 | 0.02 | 0.00 |
| 14.46 | 1.46 | 0.00 | 2.77 | 0.02 | 0.00 | 14.48 | 1.52 | 0.00 | 2.76 | 0.02 | 0.00 |
| 14.50 | 1.60 | 0.00 | 2.75 | 0.02 | 0.00 | 14.52 | 1.62 | 0.00 | 2.74 | 0.02 | 0.00 |
| 14.54 | 1.56 | 0.00 | 2.73 | 0.02 | 0.00 | 14.56 | 1.46 | 0.00 | 2.72 | 0.02 | 0.00 |
| 14.58 | 1.38 | 0.00 | 2.71 | 0.02 | 0.00 | 14.60 | 1.30 | 0.00 | 2.70 | 0.02 | 0.00 |
| 14.62 | 1.23 | 0.00 | 2.69 | 0.02 | 0.00 | 14.64 | 1.18 | 0.00 | 2.68 | 0.02 | 0.00 |
| 14.66 | 1.16 | 0.00 | 2.67 | 0.02 | 0.00 | 14.68 | 1.15 | 0.00 | 2.66 | 0.02 | 0.00 |
| 14.70 | 1.13 | 0.00 | 2.65 | 0.02 | 0.00 | 14.72 | 1.10 | 0.00 | 2.64 | 0.02 | 0.00 |
| 14.74 | 1.10 | 0.00 | 2.63 | 0.02 | 0.00 | 14.76 | 1.15 | 0.00 | 2.62 | 0.02 | 0.00 |
| 14.78 | 1.21 | 0.00 | 2.61 | 0.02 | 0.00 | 14.80 | 1.24 | 0.00 | 2.60 | 0.02 | 0.00 |
| 14.82 | 1.23 | 0.00 | 2.59 | 0.02 | 0.00 | 14.84 | 1.20 | 0.00 | 2.58 | 0.02 | 0.00 |
| 14.86 | 1.16 | 0.00 | 2.57 | 0.02 | 0.00 | 14.88 | 1.16 | 0.00 | 2.56 | 0.02 | 0.00 |
| 14.90 | 1.28 | 0.00 | 2.55 | 0.02 | 0.00 | 14.92 | 1.48 | 0.00 | 2.54 | 0.02 | 0.00 |
| 14.94 | 1.68 | 0.00 | 2.53 | 0.02 | 0.00 | 14.96 | 1.83 | 0.00 | 2.52 | 0.02 | 0.00 |
| 14.98 | 1.96 | 0.00 | 2.51 | 0.02 | 0.00 | 15.00 | 2.00 | 0.00 | 2.50 | 0.02 | 0.00 |
| 15.02 | 2.00 | 0.00 | 2.49 | 0.02 | 0.00 | 15.04 | 2.00 | 0.00 | 2.48 | 0.02 | 0.00 |
| 15.06 | 2.00 | 0.00 | 2.47 | 0.02 | 0.00 | 15.08 | 1.88 | 0.00 | 2.46 | 0.02 | 0.00 |
| 15.10 | 1.78 | 0.00 | 2.45 | 0.02 | 0.00 | 15.12 | 1.71 | 0.00 | 2.44 | 0.02 | 0.00 |
| 15.14 | 1.71 | 0.00 | 2.43 | 0.02 | 0.00 | 15.16 | 1.75 | 0.00 | 2.42 | 0.02 | 0.00 |
| 15.18 | 1.82 | 0.00 | 2.41 | 0.02 | 0.00 | 15.20 | 1.92 | 0.00 | 2.40 | 0.02 | 0.00 |
| 15.22 | 1.99 | 0.00 | 2.39 | 0.02 | 0.00 | 15.24 | 1.92 | 0.00 | 2.38 | 0.02 | 0.00 |
| 15.26 | 1.75 | 0.00 | 2.37 | 0.02 | 0.00 | 15.28 | 2.00 | 0.00 | 2.36 | 0.02 | 0.00 |
| 15.30 | 1.42 | 0.00 | 2.35 | 0.02 | 0.00 | 15.32 | 1.26 | 0.00 | 2.34 | 0.02 | 0.00 |
| 15.34 | 1.21 | 0.00 | 2.33 | 0.02 | 0.00 | 15.36 | 1.31 | 0.00 | 2.32 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 15.38 | 1.46 | 0.00 | 2.31 | 0.02 | 0.00 | 15.40 | 1.55 | 0.00 | 2.30 | 0.02 | 0.00 |
| 15.42 | 1.58 | 0.00 | 2.29 | 0.02 | 0.00 | 15.44 | 1.60 | 0.00 | 2.28 | 0.02 | 0.00 |
| 15.46 | 1.61 | 0.00 | 2.27 | 0.02 | 0.00 | 15.48 | 1.66 | 0.00 | 2.26 | 0.02 | 0.00 |
| 15.50 | 1.72 | 0.00 | 2.25 | 0.02 | 0.00 | 15.52 | 1.74 | 0.00 | 2.24 | 0.02 | 0.00 |
| 15.54 | 1.68 | 0.00 | 2.23 | 0.02 | 0.00 | 15.56 | 1.57 | 0.00 | 2.22 | 0.02 | 0.00 |
| 15.58 | 1.47 | 0.00 | 2.21 | 0.02 | 0.00 | 15.60 | 1.42 | 0.00 | 2.20 | 0.02 | 0.00 |
| 15.62 | 1.40 | 0.00 | 2.19 | 0.02 | 0.00 | 15.64 | 1.38 | 0.00 | 2.18 | 0.02 | 0.00 |
| 15.66 | 1.35 | 0.00 | 2.17 | 0.02 | 0.00 | 15.68 | 1.27 | 0.00 | 2.16 | 0.02 | 0.00 |
| 15.70 | 1.20 | 0.00 | 2.15 | 0.02 | 0.00 | 15.72 | 1.14 | 0.00 | 2.14 | 0.02 | 0.00 |
| 15.74 | 1.10 | 0.00 | 2.13 | 0.02 | 0.00 | 15.76 | 1.07 | 0.00 | 2.12 | 0.02 | 0.00 |
| 15.78 | 1.03 | 0.00 | 2.11 | 0.02 | 0.00 | 15.80 | 0.99 | 0.01 | 2.10 | 0.02 | 0.00 |
| 15.82 | 0.97 | 0.03 | 2.09 | 0.02 | 0.00 | 15.84 | 0.96 | 0.04 | 2.08 | 0.02 | 0.00 |
| 15.86 | 0.96 | 0.04 | 2.07 | 0.02 | 0.00 | 15.88 | 0.96 | 0.04 | 2.06 | 0.02 | 0.00 |
| 15.90 | 0.97 | 0.03 | 2.05 | 0.02 | 0.00 | 15.92 | 0.97 | 0.03 | 2.04 | 0.02 | 0.00 |
| 15.94 | 0.98 | 0.02 | 2.03 | 0.02 | 0.00 | 15.96 | 1.01 | 0.00 | 2.02 | 0.02 | 0.00 |
| 15.98 | 1.06 | 0.00 | 2.01 | 0.02 | 0.00 | 16.00 | 1.08 | 0.00 | 2.00 | 0.02 | 0.00 |
| 16.02 | 1.04 | 0.00 | 1.99 | 0.02 | 0.00 | 16.04 | 1.03 | 0.00 | 1.98 | 0.02 | 0.00 |
| 16.06 | 1.05 | 0.00 | 1.97 | 0.02 | 0.00 | 16.08 | 1.07 | 0.00 | 1.96 | 0.02 | 0.00 |
| 16.10 | 1.11 | 0.00 | 1.95 | 0.02 | 0.00 | 16.12 | 2.00 | 0.00 | 1.94 | 0.02 | 0.00 |
| 16.14 | 2.00 | 0.00 | 1.93 | 0.02 | 0.00 | 16.16 | 2.00 | 0.00 | 1.92 | 0.02 | 0.00 |
| 16.18 | 2.00 | 0.00 | 1.91 | 0.02 | 0.00 | 16.20 | 2.00 | 0.00 | 1.90 | 0.02 | 0.00 |
| 16.22 | 2.00 | 0.00 | 1.89 | 0.02 | 0.00 | 16.24 | 2.00 | 0.00 | 1.88 | 0.02 | 0.00 |
| 16.26 | 2.00 | 0.00 | 1.87 | 0.02 | 0.00 | 16.28 | 1.20 | 0.00 | 1.86 | 0.02 | 0.00 |
| 16.30 | 1.23 | 0.00 | 1.85 | 0.02 | 0.00 | 16.32 | 1.19 | 0.00 | 1.84 | 0.02 | 0.00 |
| 16.34 | 2.00 | 0.00 | 1.83 | 0.02 | 0.00 | 16.36 | 2.00 | 0.00 | 1.82 | 0.02 | 0.00 |
| 16.38 | 1.04 | 0.00 | 1.81 | 0.02 | 0.00 | 16.40 | 1.01 | 0.00 | 1.80 | 0.02 | 0.00 |
| 16.42 | 1.01 | 0.00 | 1.79 | 0.02 | 0.00 | 16.44 | 1.02 | 0.00 | 1.78 | 0.02 | 0.00 |
| 16.46 | 1.02 | 0.00 | 1.77 | 0.02 | 0.00 | 16.48 | 1.02 | 0.00 | 1.76 | 0.02 | 0.00 |
| 16.50 | 1.02 | 0.00 | 1.75 | 0.02 | 0.00 | 16.52 | 1.02 | 0.00 | 1.74 | 0.02 | 0.00 |
| 16.54 | 1.02 | 0.00 | 1.73 | 0.02 | 0.00 | 16.56 | 1.01 | 0.00 | 1.72 | 0.02 | 0.00 |
| 16.58 | 1.00 | 0.00 | 1.71 | 0.02 | 0.00 | 16.60 | 0.99 | 0.01 | 1.70 | 0.02 | 0.00 |
| 16.62 | 1.00 | 0.00 | 1.69 | 0.02 | 0.00 | 16.64 | 1.02 | 0.00 | 1.68 | 0.02 | 0.00 |
| 16.66 | 1.05 | 0.00 | 1.67 | 0.02 | 0.00 | 16.68 | 1.08 | 0.00 | 1.66 | 0.02 | 0.00 |
| 16.70 | 1.08 | 0.00 | 1.65 | 0.02 | 0.00 | 16.72 | 1.07 | 0.00 | 1.64 | 0.02 | 0.00 |
| 16.74 | 1.09 | 0.00 | 1.63 | 0.02 | 0.00 | 16.76 | 1.16 | 0.00 | 1.62 | 0.02 | 0.00 |
| 16.78 | 1.28 | 0.00 | 1.61 | 0.02 | 0.00 | 16.80 | 1.41 | 0.00 | 1.60 | 0.02 | 0.00 |
| 16.82 | 1.51 | 0.00 | 1.59 | 0.02 | 0.00 | 16.84 | 1.58 | 0.00 | 1.58 | 0.02 | 0.00 |
| 16.86 | 1.59 | 0.00 | 1.57 | 0.02 | 0.00 | 16.88 | 2.00 | 0.00 | 1.56 | 0.02 | 0.00 |
| 16.90 | 2.00 | 0.00 | 1.55 | 0.02 | 0.00 | 16.92 | 2.00 | 0.00 | 1.54 | 0.02 | 0.00 |
| 16.94 | 2.00 | 0.00 | 1.53 | 0.02 | 0.00 | 16.96 | 2.00 | 0.00 | 1.52 | 0.02 | 0.00 |
| 16.98 | 2.00 | 0.00 | 1.51 | 0.02 | 0.00 | 17.00 | 2.00 | 0.00 | 1.50 | 0.02 | 0.00 |
| 17.02 | 2.00 | 0.00 | 1.49 | 0.02 | 0.00 | 17.04 | 2.00 | 0.00 | 1.48 | 0.02 | 0.00 |
| 17.06 | 2.00 | 0.00 | 1.47 | 0.02 | 0.00 | 17.08 | 2.00 | 0.00 | 1.46 | 0.02 | 0.00 |
| 17.10 | 2.00 | 0.00 | 1.45 | 0.02 | 0.00 | 17.12 | 2.00 | 0.00 | 1.44 | 0.02 | 0.00 |
| 17.14 | 2.00 | 0.00 | 1.43 | 0.02 | 0.00 | 17.16 | 2.00 | 0.00 | 1.42 | 0.02 | 0.00 |
| 17.18 | 2.00 | 0.00 | 1.41 | 0.02 | 0.00 | 17.20 | 2.00 | 0.00 | 1.40 | 0.02 | 0.00 |
| 17.22 | 2.00 | 0.00 | 1.39 | 0.02 | 0.00 | 17.24 | 2.00 | 0.00 | 1.38 | 0.02 | 0.00 |
| 17.26 | 2.00 | 0.00 | 1.37 | 0.02 | 0.00 | 17.28 | 2.00 | 0.00 | 1.36 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 17.30 | 2.00 | 0.00 | 1.35 | 0.02 | 0.00 | 17.32 | 2.00 | 0.00 | 1.34 | 0.02 | 0.00 |
| 17.34 | 2.00 | 0.00 | 1.33 | 0.02 | 0.00 | 17.36 | 2.00 | 0.00 | 1.32 | 0.02 | 0.00 |
| 17.38 | 2.00 | 0.00 | 1.31 | 0.02 | 0.00 | 17.40 | 2.00 | 0.00 | 1.30 | 0.02 | 0.00 |
| 17.42 | 2.00 | 0.00 | 1.29 | 0.02 | 0.00 | 17.44 | 2.00 | 0.00 | 1.28 | 0.02 | 0.00 |
| 17.46 | 2.00 | 0.00 | 1.27 | 0.02 | 0.00 | 17.48 | 2.00 | 0.00 | 1.26 | 0.02 | 0.00 |
| 17.50 | 2.00 | 0.00 | 1.25 | 0.02 | 0.00 | 17.52 | 2.00 | 0.00 | 1.24 | 0.02 | 0.00 |
| 17.54 | 2.00 | 0.00 | 1.23 | 0.02 | 0.00 | 17.56 | 2.00 | 0.00 | 1.22 | 0.02 | 0.00 |
| 17.58 | 2.00 | 0.00 | 1.21 | 0.02 | 0.00 | 17.60 | 2.00 | 0.00 | 1.20 | 0.02 | 0.00 |
| 17.62 | 2.00 | 0.00 | 1.19 | 0.02 | 0.00 | 17.64 | 2.00 | 0.00 | 1.18 | 0.02 | 0.00 |
| 17.66 | 2.00 | 0.00 | 1.17 | 0.02 | 0.00 | 17.68 | 2.00 | 0.00 | 1.16 | 0.02 | 0.00 |
| 17.70 | 2.00 | 0.00 | 1.15 | 0.02 | 0.00 | 17.72 | 2.00 | 0.00 | 1.14 | 0.02 | 0.00 |
| 17.74 | 2.00 | 0.00 | 1.13 | 0.02 | 0.00 | 17.76 | 2.00 | 0.00 | 1.12 | 0.02 | 0.00 |
| 17.78 | 2.00 | 0.00 | 1.11 | 0.02 | 0.00 | 17.80 | 2.00 | 0.00 | 1.10 | 0.02 | 0.00 |
| 17.82 | 2.00 | 0.00 | 1.09 | 0.02 | 0.00 | 17.84 | 2.00 | 0.00 | 1.08 | 0.02 | 0.00 |
| 17.86 | 2.00 | 0.00 | 1.07 | 0.02 | 0.00 | 17.88 | 2.00 | 0.00 | 1.06 | 0.02 | 0.00 |
| 17.90 | 2.00 | 0.00 | 1.05 | 0.02 | 0.00 | 17.92 | 2.00 | 0.00 | 1.04 | 0.02 | 0.00 |
| 17.94 | 2.00 | 0.00 | 1.03 | 0.02 | 0.00 | 17.96 | 2.00 | 0.00 | 1.02 | 0.02 | 0.00 |
| 17.98 | 2.00 | 0.00 | 1.01 | 0.02 | 0.00 | 18.00 | 2.00 | 0.00 | 1.00 | 0.02 | 0.00 |
| 18.02 | 2.00 | 0.00 | 0.99 | 0.02 | 0.00 | 18.04 | 2.00 | 0.00 | 0.98 | 0.02 | 0.00 |
| 18.06 | 2.00 | 0.00 | 0.97 | 0.02 | 0.00 | 18.08 | 2.00 | 0.00 | 0.96 | 0.02 | 0.00 |
| 18.10 | 2.00 | 0.00 | 0.95 | 0.02 | 0.00 | 18.12 | 2.00 | 0.00 | 0.94 | 0.02 | 0.00 |
| 18.14 | 2.00 | 0.00 | 0.93 | 0.02 | 0.00 | 18.16 | 2.00 | 0.00 | 0.92 | 0.02 | 0.00 |
| 18.18 | 2.00 | 0.00 | 0.91 | 0.02 | 0.00 | 18.20 | 2.00 | 0.00 | 0.90 | 0.02 | 0.00 |
| 18.22 | 2.00 | 0.00 | 0.89 | 0.02 | 0.00 | 18.24 | 2.00 | 0.00 | 0.88 | 0.02 | 0.00 |
| 18.26 | 2.00 | 0.00 | 0.87 | 0.02 | 0.00 | 18.28 | 2.00 | 0.00 | 0.86 | 0.02 | 0.00 |
| 18.30 | 2.00 | 0.00 | 0.85 | 0.02 | 0.00 | 18.32 | 2.00 | 0.00 | 0.84 | 0.02 | 0.00 |
| 18.34 | 2.00 | 0.00 | 0.83 | 0.02 | 0.00 | 18.36 | 2.00 | 0.00 | 0.82 | 0.02 | 0.00 |
| 18.38 | 2.00 | 0.00 | 0.81 | 0.02 | 0.00 | 18.40 | 2.00 | 0.00 | 0.80 | 0.02 | 0.00 |
| 18.42 | 2.00 | 0.00 | 0.79 | 0.02 | 0.00 | 18.44 | 2.00 | 0.00 | 0.78 | 0.02 | 0.00 |
| 18.46 | 2.00 | 0.00 | 0.77 | 0.02 | 0.00 | 18.48 | 2.00 | 0.00 | 0.76 | 0.02 | 0.00 |
| 18.50 | 2.00 | 0.00 | 0.75 | 0.02 | 0.00 | 18.52 | 2.00 | 0.00 | 0.74 | 0.02 | 0.00 |
| 18.54 | 2.00 | 0.00 | 0.73 | 0.02 | 0.00 | 18.56 | 2.00 | 0.00 | 0.72 | 0.02 | 0.00 |
| 18.58 | 2.00 | 0.00 | 0.71 | 0.02 | 0.00 | 18.60 | 1.11 | 0.00 | 0.70 | 0.02 | 0.00 |
| 18.62 | 1.19 | 0.00 | 0.69 | 0.02 | 0.00 | 18.64 | 1.22 | 0.00 | 0.68 | 0.02 | 0.00 |
| 18.66 | 1.21 | 0.00 | 0.67 | 0.02 | 0.00 | 18.68 | 1.18 | 0.00 | 0.66 | 0.02 | 0.00 |
| 18.70 | 1.17 | 0.00 | 0.65 | 0.02 | 0.00 | 18.72 | 1.21 | 0.00 | 0.64 | 0.02 | 0.00 |
| 18.74 | 1.28 | 0.00 | 0.63 | 0.02 | 0.00 | 18.76 | 1.30 | 0.00 | 0.62 | 0.02 | 0.00 |
| 18.78 | 1.31 | 0.00 | 0.61 | 0.02 | 0.00 | 18.80 | 1.34 | 0.00 | 0.60 | 0.02 | 0.00 |
| 18.82 | 1.38 | 0.00 | 0.59 | 0.02 | 0.00 | 18.84 | 1.41 | 0.00 | 0.58 | 0.02 | 0.00 |
| 18.86 | 1.42 | 0.00 | 0.57 | 0.02 | 0.00 | 18.88 | 2.00 | 0.00 | 0.56 | 0.02 | 0.00 |
| 18.90 | 2.00 | 0.00 | 0.55 | 0.02 | 0.00 | 18.92 | 2.00 | 0.00 | 0.54 | 0.02 | 0.00 |
| 18.94 | 2.00 | 0.00 | 0.53 | 0.02 | 0.00 | 18.96 | 2.00 | 0.00 | 0.52 | 0.02 | 0.00 |
| 18.98 | 2.00 | 0.00 | 0.51 | 0.02 | 0.00 | 19.00 | 2.00 | 0.00 | 0.50 | 0.02 | 0.00 |
| 19.02 | 2.00 | 0.00 | 0.49 | 0.02 | 0.00 | 19.04 | 2.00 | 0.00 | 0.48 | 0.02 | 0.00 |
| 19.06 | 2.00 | 0.00 | 0.47 | 0.02 | 0.00 | 19.08 | 2.00 | 0.00 | 0.46 | 0.02 | 0.00 |
| 19.10 | 2.00 | 0.00 | 0.45 | 0.02 | 0.00 | 19.12 | 2.00 | 0.00 | 0.44 | 0.02 | 0.00 |
| 19.14 | 2.00 | 0.00 | 0.43 | 0.02 | 0.00 | 19.16 | 2.00 | 0.00 | 0.42 | 0.02 | 0.00 |
| 19.18 | 2.00 | 0.00 | 0.41 | 0.02 | 0.00 | 19.20 | 2.00 | 0.00 | 0.40 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 19.22 | 2.00 | 0.00 | 0.39 | 0.02 | 0.00 | 19.24 | 2.00 | 0.00 | 0.38 | 0.02 | 0.00 |
| 19.26 | 2.00 | 0.00 | 0.37 | 0.02 | 0.00 | 19.28 | 2.00 | 0.00 | 0.36 | 0.02 | 0.00 |
| 19.30 | 2.00 | 0.00 | 0.35 | 0.02 | 0.00 | 19.32 | 2.00 | 0.00 | 0.34 | 0.02 | 0.00 |
| 19.34 | 2.00 | 0.00 | 0.33 | 0.02 | 0.00 | 19.36 | 2.00 | 0.00 | 0.32 | 0.02 | 0.00 |
| 19.38 | 2.00 | 0.00 | 0.31 | 0.02 | 0.00 | 19.40 | 2.00 | 0.00 | 0.30 | 0.02 | 0.00 |
| 19.42 | 2.00 | 0.00 | 0.29 | 0.02 | 0.00 | 19.44 | 2.00 | 0.00 | 0.28 | 0.02 | 0.00 |
| 19.46 | 2.00 | 0.00 | 0.27 | 0.02 | 0.00 | 19.48 | 2.00 | 0.00 | 0.26 | 0.02 | 0.00 |
| 19.50 | 2.00 | 0.00 | 0.25 | 0.02 | 0.00 | 19.52 | 2.00 | 0.00 | 0.24 | 0.02 | 0.00 |
| 19.54 | 2.00 | 0.00 | 0.23 | 0.02 | 0.00 | 19.56 | 2.00 | 0.00 | 0.22 | 0.02 | 0.00 |
| 19.58 | 2.00 | 0.00 | 0.21 | 0.02 | 0.00 | 19.60 | 2.00 | 0.00 | 0.20 | 0.02 | 0.00 |
| 19.62 | 2.00 | 0.00 | 0.19 | 0.02 | 0.00 | 19.64 | 2.00 | 0.00 | 0.18 | 0.02 | 0.00 |
| 19.66 | 2.00 | 0.00 | 0.17 | 0.02 | 0.00 | 19.68 | 1.07 | 0.00 | 0.16 | 0.02 | 0.00 |
| 19.70 | 1.14 | 0.00 | 0.15 | 0.02 | 0.00 | 19.72 | 1.27 | 0.00 | 0.14 | 0.02 | 0.00 |
| 19.74 | 1.38 | 0.00 | 0.13 | 0.02 | 0.00 | 19.76 | 1.46 | 0.00 | 0.12 | 0.02 | 0.00 |
| 19.78 | 2.00 | 0.00 | 0.11 | 0.02 | 0.00 | 19.80 | 2.00 | 0.00 | 0.10 | 0.02 | 0.00 |
| 19.82 | 2.00 | 0.00 | 0.09 | 0.02 | 0.00 | 19.84 | 2.00 | 0.00 | 0.08 | 0.02 | 0.00 |
| 19.86 | 2.00 | 0.00 | 0.07 | 0.02 | 0.00 | 19.88 | 2.00 | 0.00 | 0.06 | 0.02 | 0.00 |
| 19.90 | 2.00 | 0.00 | 0.05 | 0.02 | 0.00 | | | | | | |

Overall liquefaction potential: 1.33

LPI = 0.00 - Liquefaction risk very low
 LPI between 0.00 and 5.00 - Liquefaction risk low
 LPI between 5.00 and 15.00 - Liquefaction risk high
 LPI > 15.00 - Liquefaction risk very high

Abbreviations

FS: Calculated factor of safety for test point
 F_L: 1 - FS
 w_z: Function value of the extend of soil liquefaction according to depth
 d_z: Layer thickness (m)
 LPI: Liquefaction potential index value for test point

LIQUEFACTION ANALYSIS REPORT

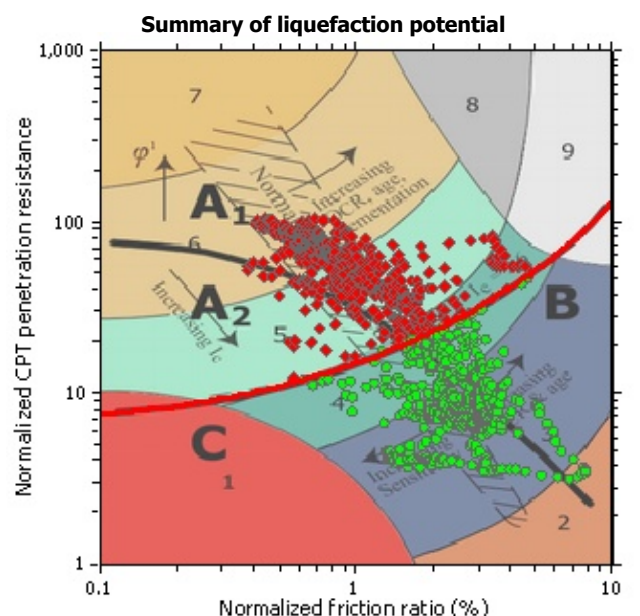
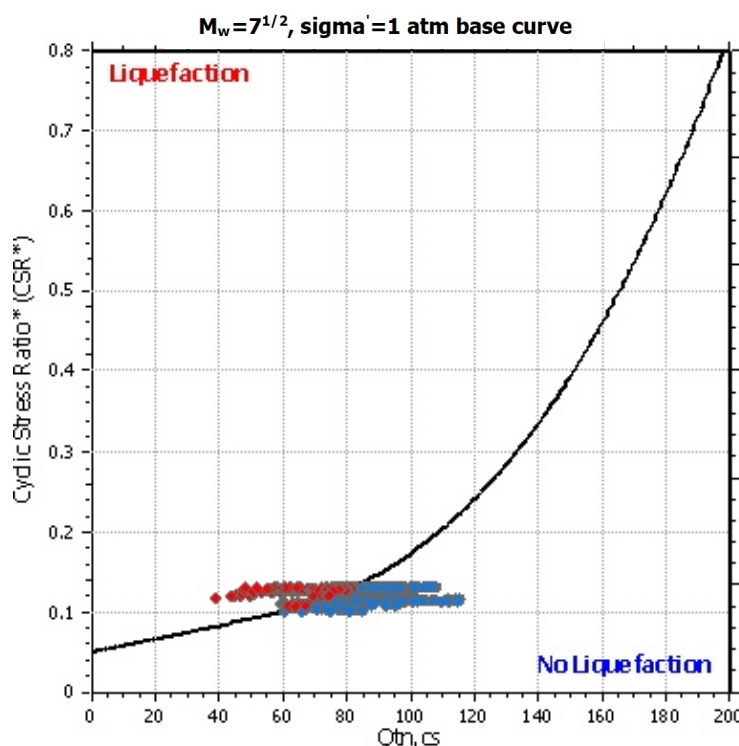
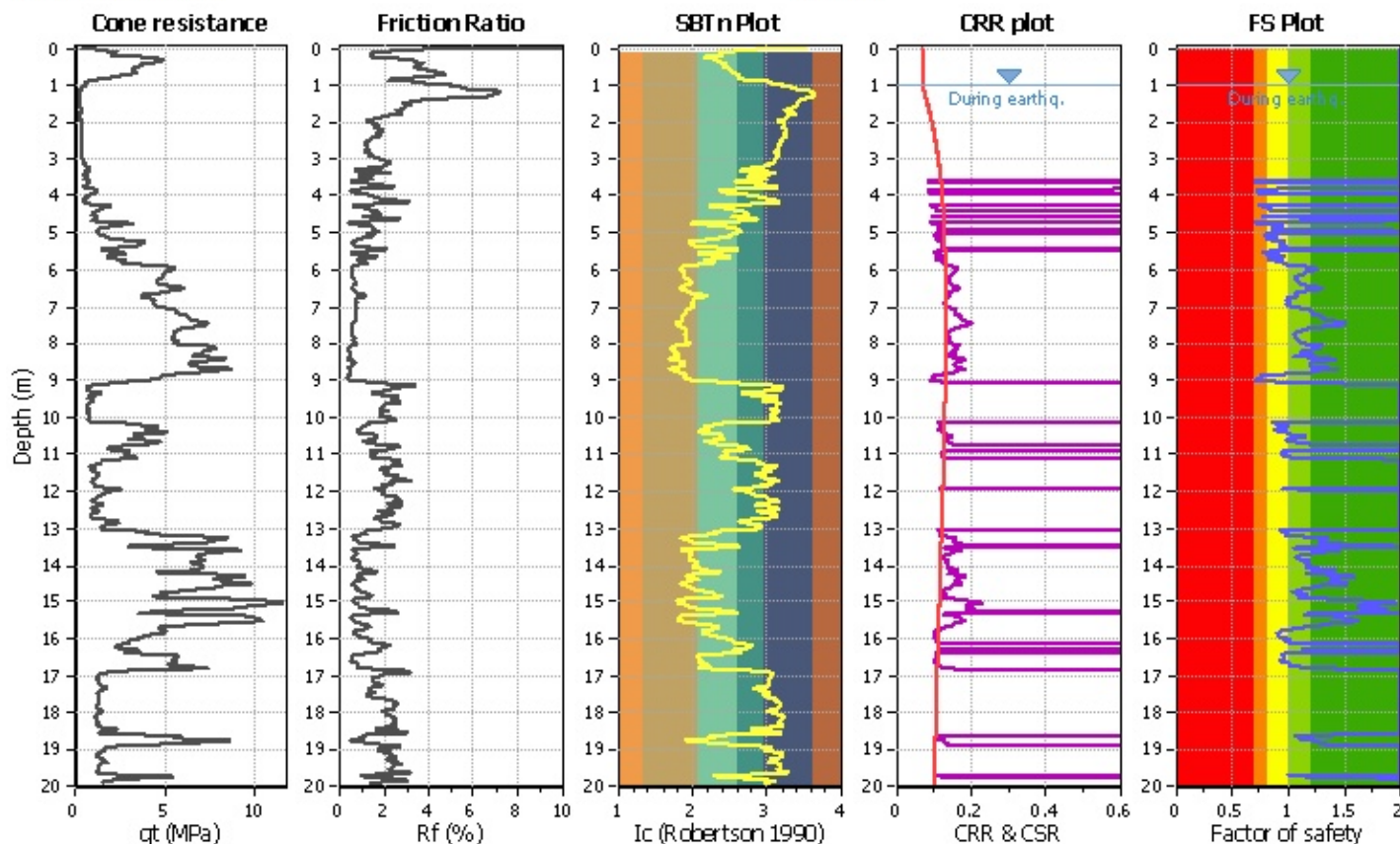
Project title :

Location :

CPT file : CPTU4

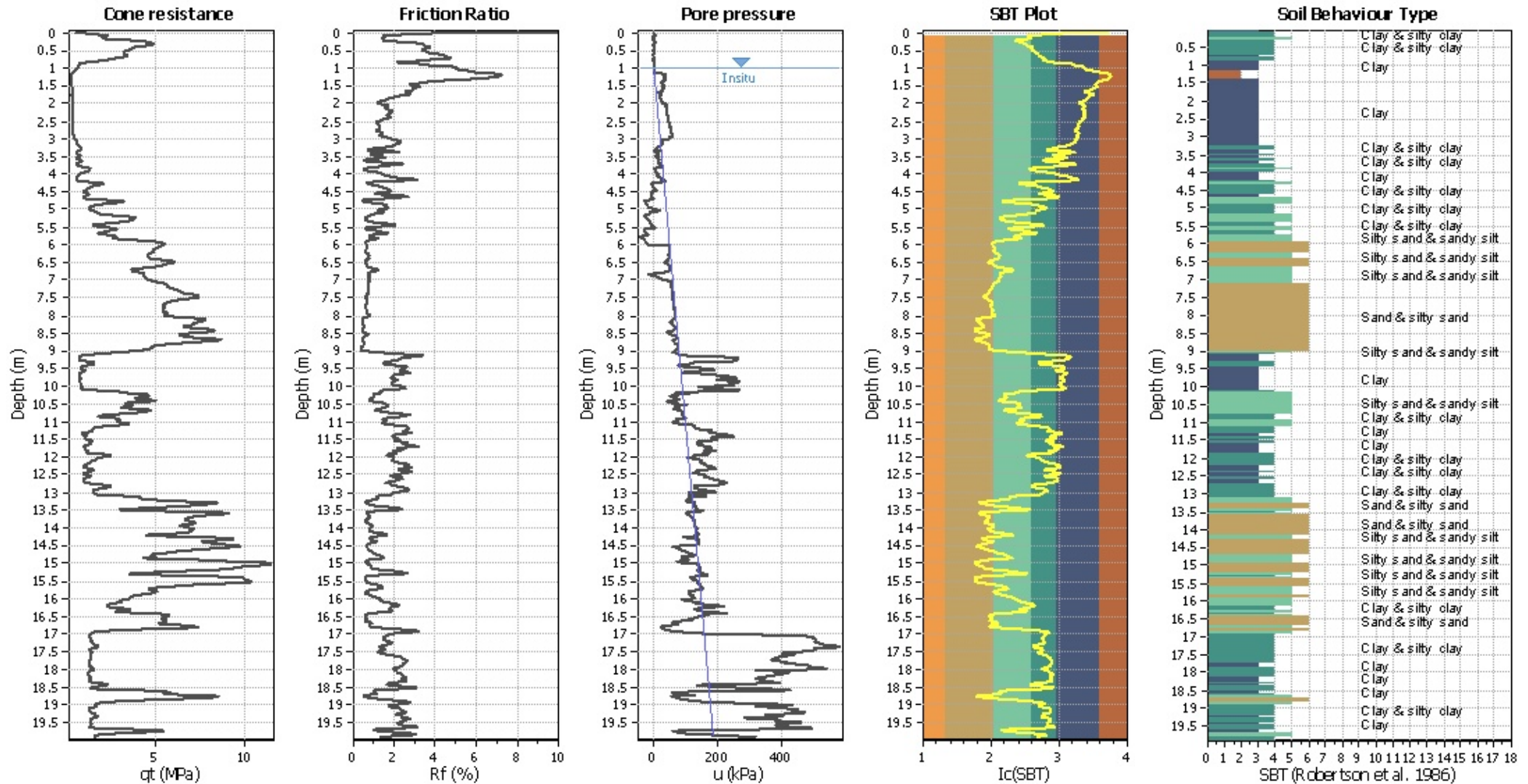
Input parameters and analysis data

| | | | | | | | |
|------------------------------|-------------------|---------------------------|--------------|-------------------------|-----|----------------------|--------------|
| Analysis method: | NCEER (1998) | G.W.T. (in-situ): | 1.00 m | Use fill: | No | Clay like behavior | |
| Fines correction method: | NCEER (1998) | G.W.T. (earthq.): | 1.00 m | Fill height: | N/A | applied: | Sands only |
| Points to test: | Based on Ic value | Average results interval: | 3 | Fill weight: | N/A | Limit depth applied: | No |
| Earthquake magnitude M_w : | 6.14 | Ic cut-off value: | 2.60 | Trans. detect. applied: | No | Limit depth: | N/A |
| Peak ground acceleration: | 0.17 | Unit weight calculation: | Based on SBT | K_0 applied: | Yes | MSF method: | Method based |



Zone A₁: Cyclic liquefaction likely depending on size and duration of cyclic loading
 Zone A₂: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
 Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
 Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

CPT basic interpretation plo



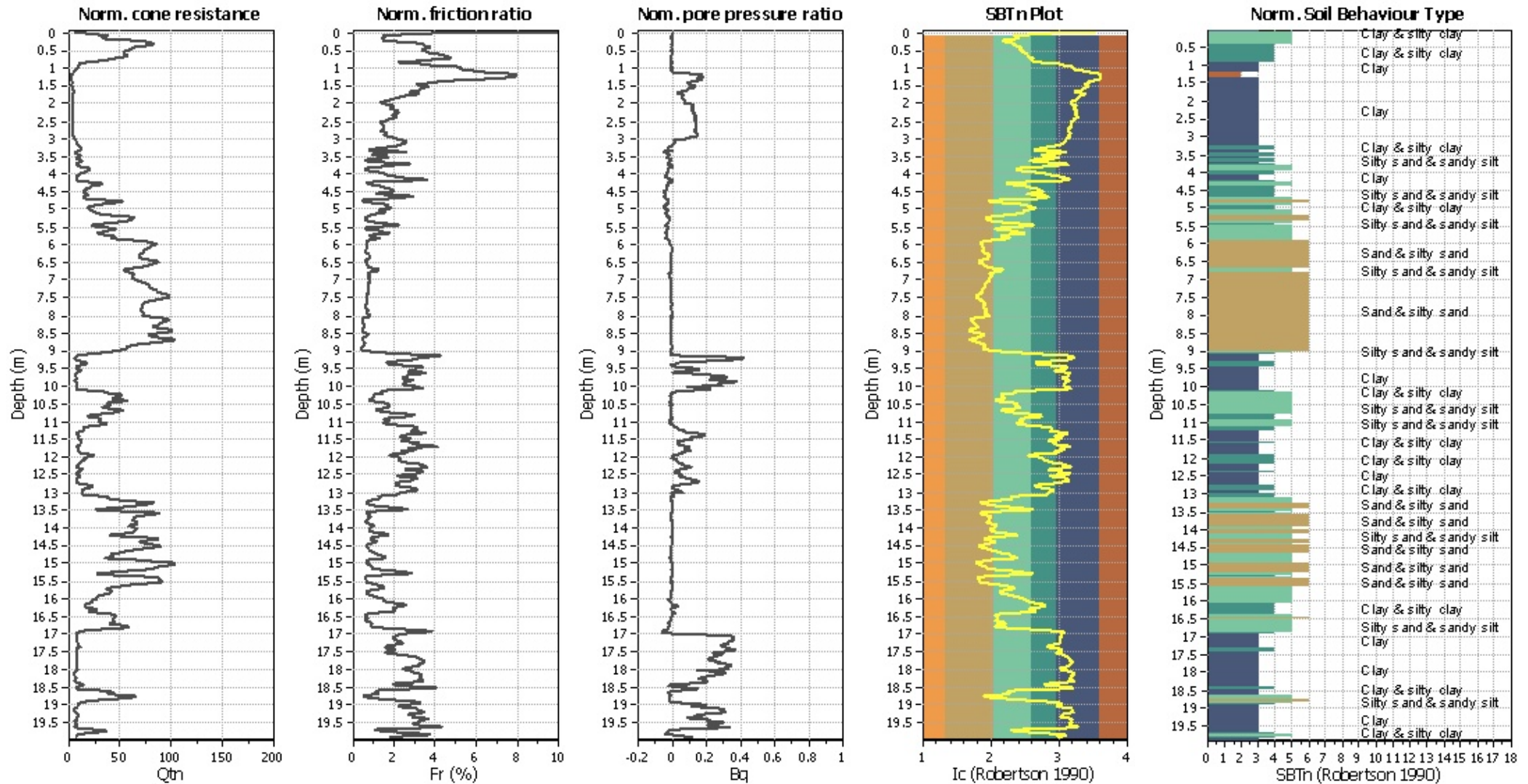
Input parameters and analysis data

| | | | | | |
|---------------------------------------|-------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K ₀ applied: | Yes |
| Earthquake magnitude M _w : | 6.14 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

SBT legend

| | | |
|---------------------------|-----------------------------|----------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty | 7. Gravely sand to sand |
| 2. Organic material | 5. Silty sand to sandy silt | 8. Very stiff sand to |
| 3. Clay to silty clay | 6. Clean sand to silty sand | 9. Very stiff fine grained |

CPT basic interpretation plots (normaliz



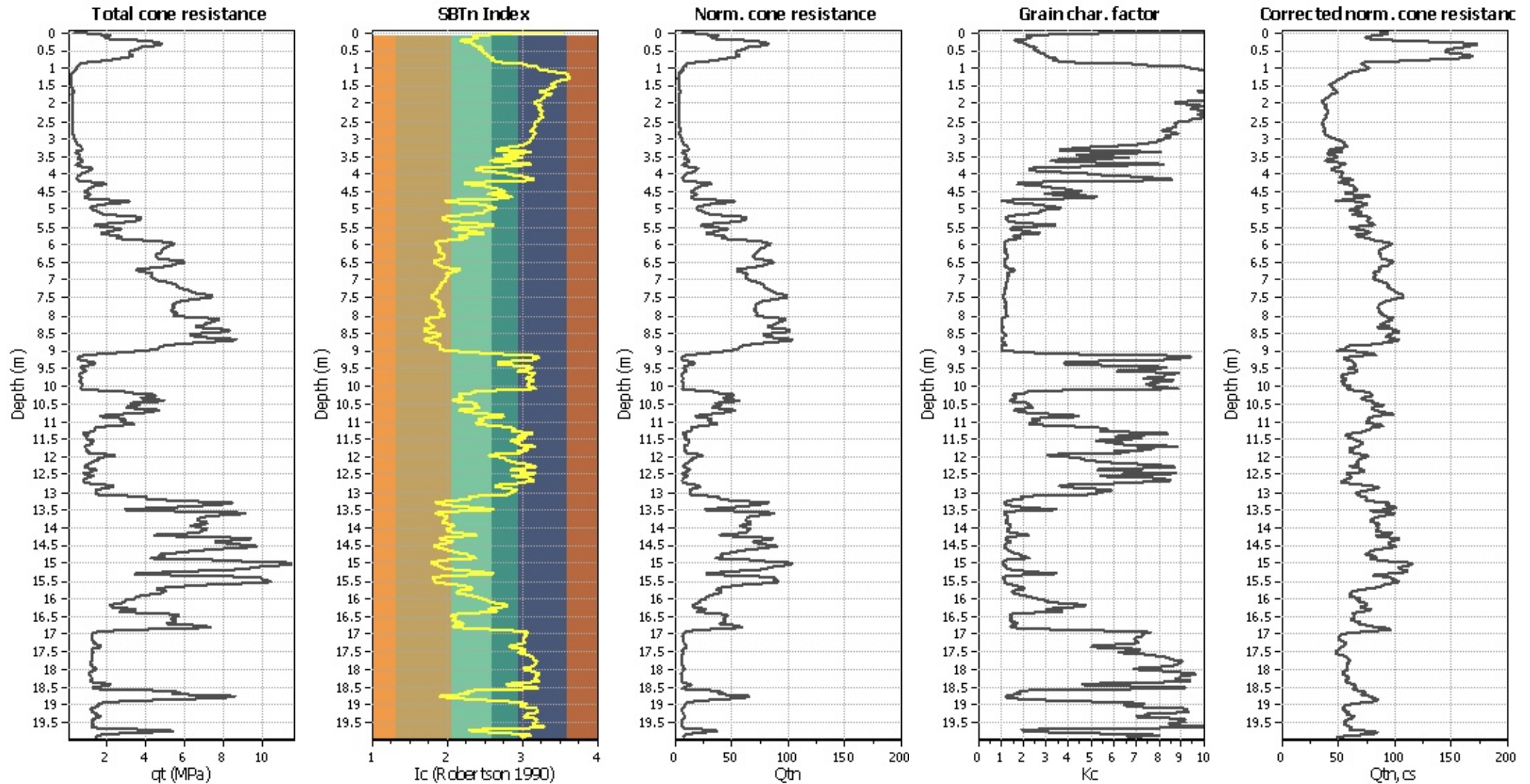
Input parameters and analysis data

| | | | | | |
|---------------------------------------|-------------------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I _c value | I _c cut-off value: | 2.60 | K ₀ applied: | Yes |
| Earthquake magnitude M _w : | 6.14 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

SBTn legend

| | | |
|---------------------------|-----------------------------|----------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty | 7. Gravely sand to sand |
| 2. Organic material | 5. Silty sand to sandy silt | 8. Very stiff sand to |
| 3. Clay to silty clay | 6. Clean sand to silty sand | 9. Very stiff fine grained |

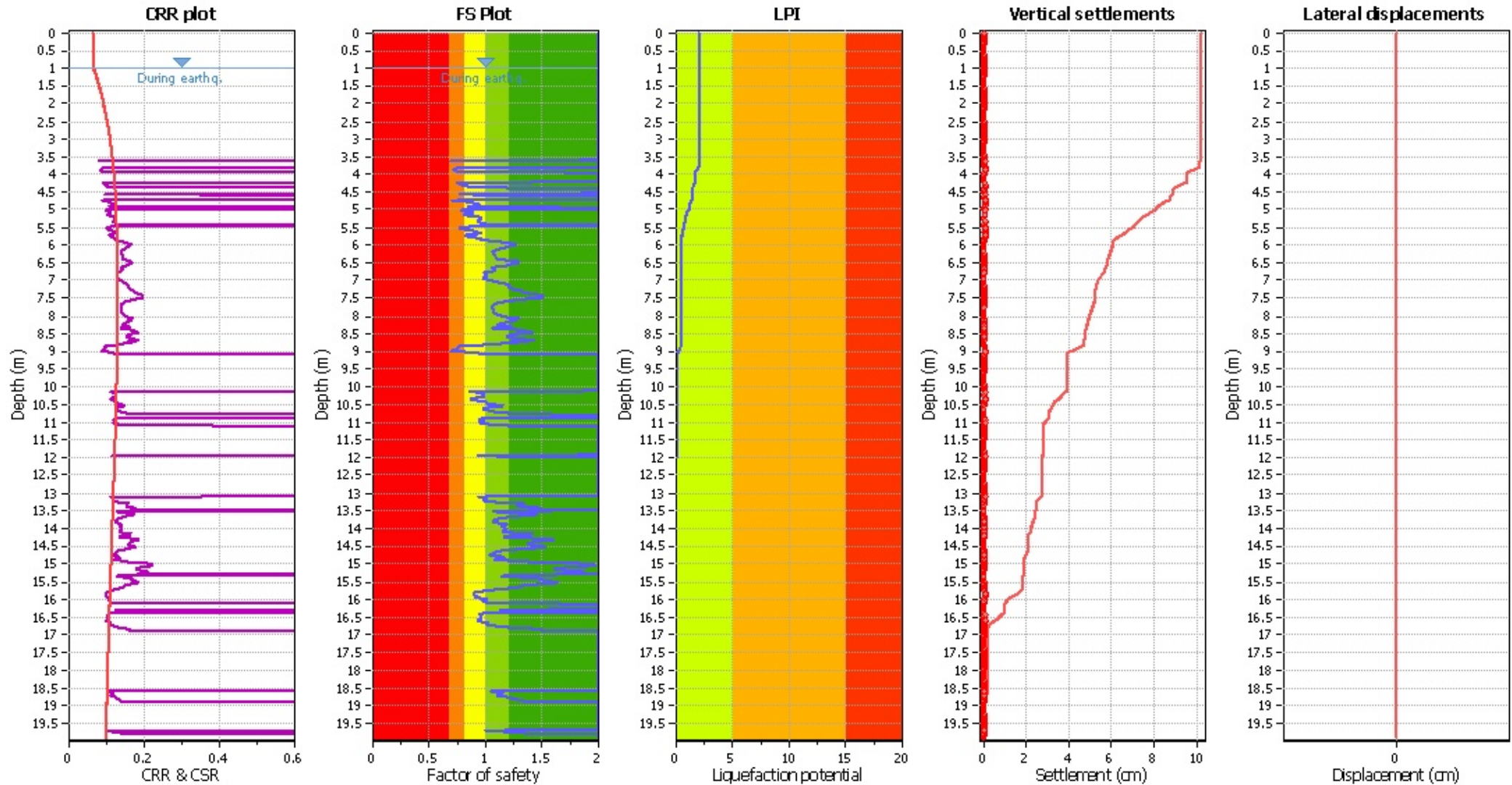
Liquefaction analysis overall plots (intermediate res)



Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 6.14 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

Liquefaction analysis overall plot



Input parameters and analysis data

| | | | | | |
|--------------------------------|-------------------|---------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (earthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 6.14 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

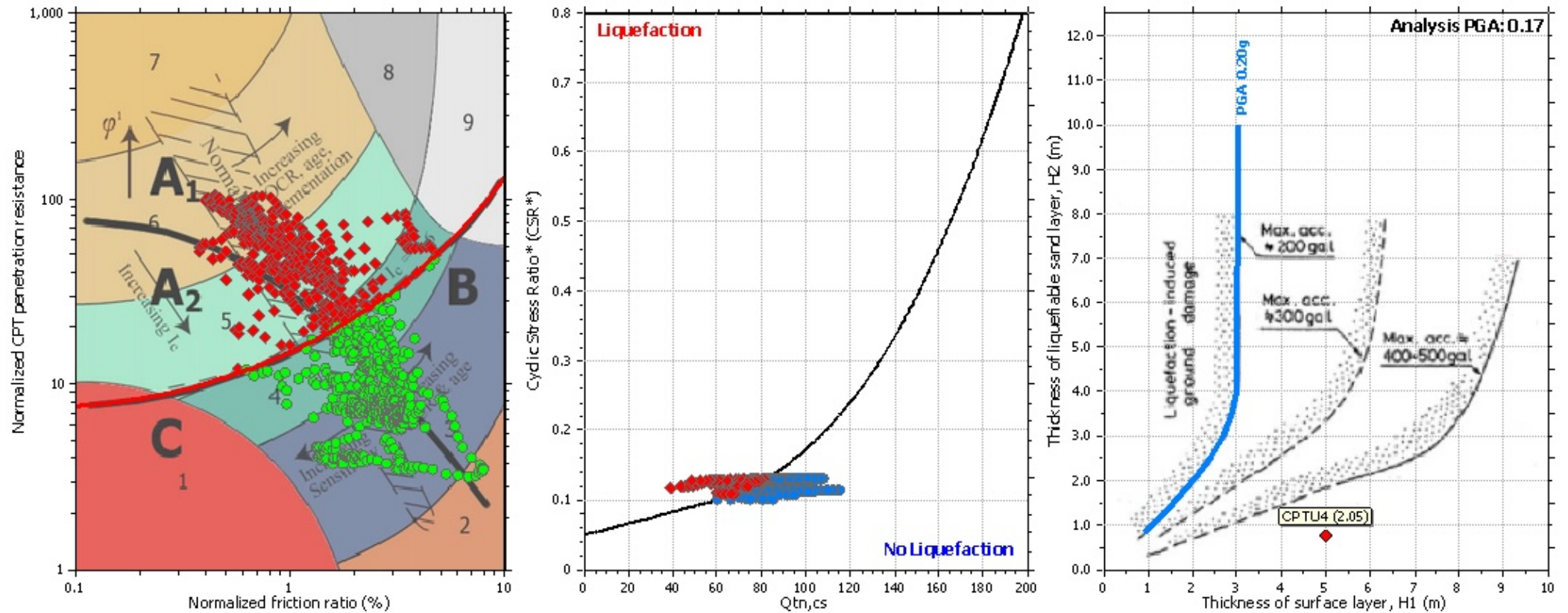
F.S. color scheme

| | |
|-------------|---|
| Red | Almost certain it will liquefy |
| Orange | Very likely to liquefy |
| Yellow | Liquefaction and no liq. are equally likely |
| Light green | Unlike to liquefy |
| Dark green | Almost certain it will not liquefy |

LPI color scheme

| | |
|--------|----------------|
| Red | Very high risk |
| Orange | High risk |
| Yellow | Low risk |

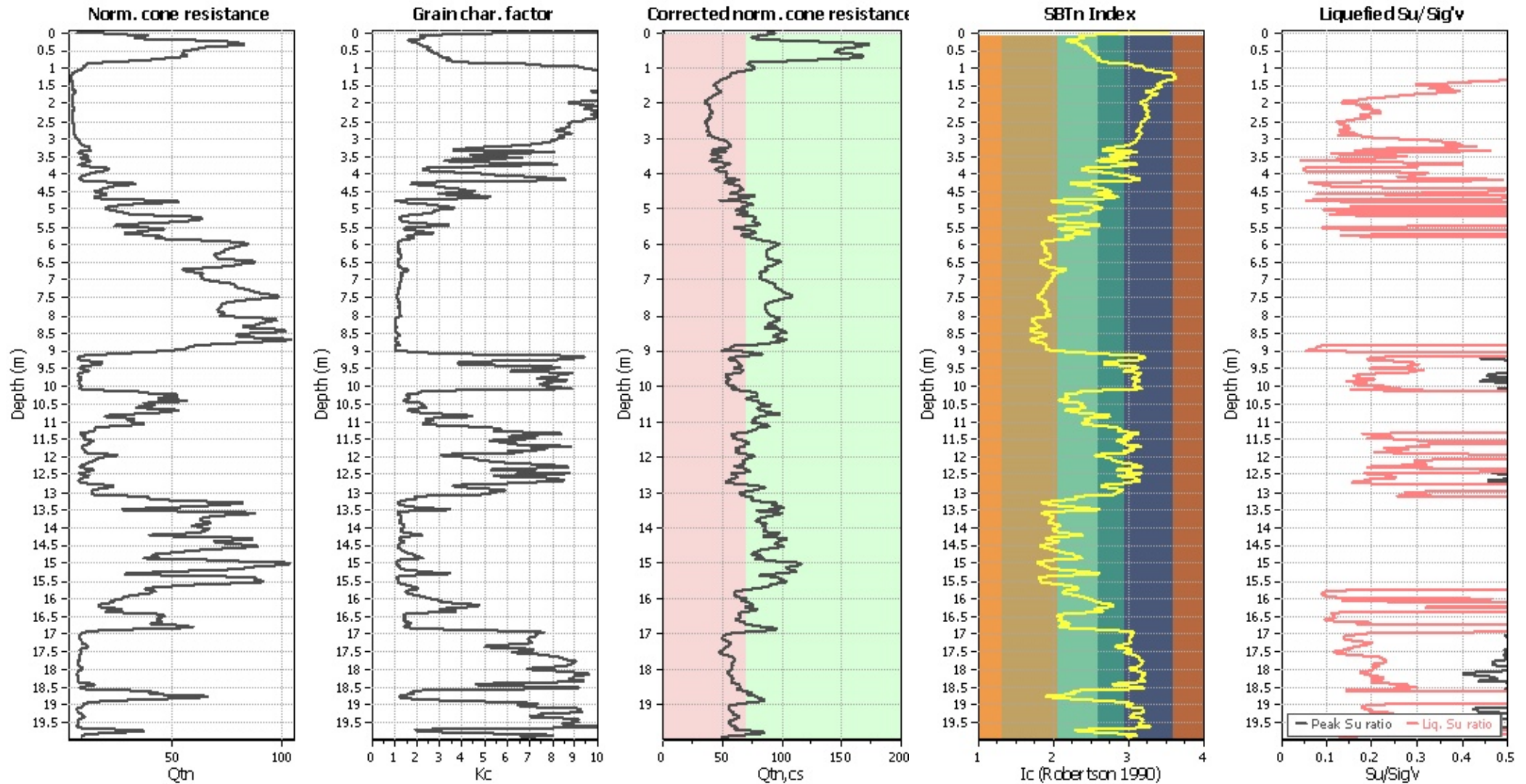
Liquefaction analysis summary plo



Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 6.14 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

Check for strength loss plots (Robertson (2010))



Input parameters and analysis data

| | | | | | |
|--------------------------------|----------------------|--------------------------------|--------------|-----------------------------|------------|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 1.00 m | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | No |
| Points to test: | Based on I_c value | I_c cut-off value: | 2.60 | K_0 applied: | Yes |
| Earthquake magnitude M_w : | 6.14 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.17 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 1.00 m | Fill height: | N/A | Limit depth: | N/A |

| :: Liquefaction Potential Index calculation data :: | | | | | | | | | | | |
|---|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
| 0.02 | 2.00 | 0.00 | 9.99 | 0.02 | 0.00 | 0.04 | 2.00 | 0.00 | 9.98 | 0.02 | 0.00 |
| 0.06 | 2.00 | 0.00 | 9.97 | 0.02 | 0.00 | 0.08 | 2.00 | 0.00 | 9.96 | 0.02 | 0.00 |
| 0.10 | 2.00 | 0.00 | 9.95 | 0.02 | 0.00 | 0.12 | 2.00 | 0.00 | 9.94 | 0.02 | 0.00 |
| 0.14 | 2.00 | 0.00 | 9.93 | 0.02 | 0.00 | 0.16 | 2.00 | 0.00 | 9.92 | 0.02 | 0.00 |
| 0.18 | 2.00 | 0.00 | 9.91 | 0.02 | 0.00 | 0.20 | 2.00 | 0.00 | 9.90 | 0.02 | 0.00 |
| 0.22 | 2.00 | 0.00 | 9.89 | 0.02 | 0.00 | 0.24 | 2.00 | 0.00 | 9.88 | 0.02 | 0.00 |
| 0.26 | 2.00 | 0.00 | 9.87 | 0.02 | 0.00 | 0.28 | 2.00 | 0.00 | 9.86 | 0.02 | 0.00 |
| 0.30 | 2.00 | 0.00 | 9.85 | 0.02 | 0.00 | 0.32 | 2.00 | 0.00 | 9.84 | 0.02 | 0.00 |
| 0.34 | 2.00 | 0.00 | 9.83 | 0.02 | 0.00 | 0.36 | 2.00 | 0.00 | 9.82 | 0.02 | 0.00 |
| 0.38 | 2.00 | 0.00 | 9.81 | 0.02 | 0.00 | 0.40 | 2.00 | 0.00 | 9.80 | 0.02 | 0.00 |
| 0.42 | 2.00 | 0.00 | 9.79 | 0.02 | 0.00 | 0.44 | 2.00 | 0.00 | 9.78 | 0.02 | 0.00 |
| 0.46 | 2.00 | 0.00 | 9.77 | 0.02 | 0.00 | 0.48 | 2.00 | 0.00 | 9.76 | 0.02 | 0.00 |
| 0.50 | 2.00 | 0.00 | 9.75 | 0.02 | 0.00 | 0.52 | 2.00 | 0.00 | 9.74 | 0.02 | 0.00 |
| 0.54 | 2.00 | 0.00 | 9.73 | 0.02 | 0.00 | 0.56 | 2.00 | 0.00 | 9.72 | 0.02 | 0.00 |
| 0.58 | 2.00 | 0.00 | 9.71 | 0.02 | 0.00 | 0.60 | 2.00 | 0.00 | 9.70 | 0.02 | 0.00 |
| 0.62 | 2.00 | 0.00 | 9.69 | 0.02 | 0.00 | 0.64 | 2.00 | 0.00 | 9.68 | 0.02 | 0.00 |
| 0.66 | 2.00 | 0.00 | 9.67 | 0.02 | 0.00 | 0.68 | 2.00 | 0.00 | 9.66 | 0.02 | 0.00 |
| 0.70 | 2.00 | 0.00 | 9.65 | 0.02 | 0.00 | 0.72 | 2.00 | 0.00 | 9.64 | 0.02 | 0.00 |
| 0.74 | 2.00 | 0.00 | 9.63 | 0.02 | 0.00 | 0.76 | 2.00 | 0.00 | 9.62 | 0.02 | 0.00 |
| 0.78 | 2.00 | 0.00 | 9.61 | 0.02 | 0.00 | 0.80 | 2.00 | 0.00 | 9.60 | 0.02 | 0.00 |
| 0.82 | 2.00 | 0.00 | 9.59 | 0.02 | 0.00 | 0.84 | 2.00 | 0.00 | 9.58 | 0.02 | 0.00 |
| 0.86 | 2.00 | 0.00 | 9.57 | 0.02 | 0.00 | 0.88 | 2.00 | 0.00 | 9.56 | 0.02 | 0.00 |
| 0.90 | 2.00 | 0.00 | 9.55 | 0.02 | 0.00 | 0.92 | 2.00 | 0.00 | 9.54 | 0.02 | 0.00 |
| 0.94 | 2.00 | 0.00 | 9.53 | 0.02 | 0.00 | 0.96 | 2.00 | 0.00 | 9.52 | 0.02 | 0.00 |
| 0.98 | 2.00 | 0.00 | 9.51 | 0.02 | 0.00 | 1.00 | 2.00 | 0.00 | 9.50 | 0.02 | 0.00 |
| 1.02 | 2.00 | 0.00 | 9.49 | 0.02 | 0.00 | 1.04 | 2.00 | 0.00 | 9.48 | 0.02 | 0.00 |
| 1.06 | 2.00 | 0.00 | 9.47 | 0.02 | 0.00 | 1.08 | 2.00 | 0.00 | 9.46 | 0.02 | 0.00 |
| 1.10 | 2.00 | 0.00 | 9.45 | 0.02 | 0.00 | 1.12 | 2.00 | 0.00 | 9.44 | 0.02 | 0.00 |
| 1.14 | 2.00 | 0.00 | 9.43 | 0.02 | 0.00 | 1.16 | 2.00 | 0.00 | 9.42 | 0.02 | 0.00 |
| 1.18 | 2.00 | 0.00 | 9.41 | 0.02 | 0.00 | 1.20 | 2.00 | 0.00 | 9.40 | 0.02 | 0.00 |
| 1.22 | 2.00 | 0.00 | 9.39 | 0.02 | 0.00 | 1.24 | 2.00 | 0.00 | 9.38 | 0.02 | 0.00 |
| 1.26 | 2.00 | 0.00 | 9.37 | 0.02 | 0.00 | 1.28 | 2.00 | 0.00 | 9.36 | 0.02 | 0.00 |
| 1.30 | 2.00 | 0.00 | 9.35 | 0.02 | 0.00 | 1.32 | 2.00 | 0.00 | 9.34 | 0.02 | 0.00 |
| 1.34 | 2.00 | 0.00 | 9.33 | 0.02 | 0.00 | 1.36 | 2.00 | 0.00 | 9.32 | 0.02 | 0.00 |
| 1.38 | 2.00 | 0.00 | 9.31 | 0.02 | 0.00 | 1.40 | 2.00 | 0.00 | 9.30 | 0.02 | 0.00 |
| 1.42 | 2.00 | 0.00 | 9.29 | 0.02 | 0.00 | 1.44 | 2.00 | 0.00 | 9.28 | 0.02 | 0.00 |
| 1.46 | 2.00 | 0.00 | 9.27 | 0.02 | 0.00 | 1.48 | 2.00 | 0.00 | 9.26 | 0.02 | 0.00 |
| 1.50 | 2.00 | 0.00 | 9.25 | 0.02 | 0.00 | 1.52 | 2.00 | 0.00 | 9.24 | 0.02 | 0.00 |
| 1.54 | 2.00 | 0.00 | 9.23 | 0.02 | 0.00 | 1.56 | 2.00 | 0.00 | 9.22 | 0.02 | 0.00 |
| 1.58 | 2.00 | 0.00 | 9.21 | 0.02 | 0.00 | 1.60 | 2.00 | 0.00 | 9.20 | 0.02 | 0.00 |
| 1.62 | 2.00 | 0.00 | 9.19 | 0.02 | 0.00 | 1.64 | 2.00 | 0.00 | 9.18 | 0.02 | 0.00 |
| 1.66 | 2.00 | 0.00 | 9.17 | 0.02 | 0.00 | 1.68 | 2.00 | 0.00 | 9.16 | 0.02 | 0.00 |
| 1.70 | 2.00 | 0.00 | 9.15 | 0.02 | 0.00 | 1.72 | 2.00 | 0.00 | 9.14 | 0.02 | 0.00 |
| 1.74 | 2.00 | 0.00 | 9.13 | 0.02 | 0.00 | 1.76 | 2.00 | 0.00 | 9.12 | 0.02 | 0.00 |
| 1.78 | 2.00 | 0.00 | 9.11 | 0.02 | 0.00 | 1.80 | 2.00 | 0.00 | 9.10 | 0.02 | 0.00 |
| 1.82 | 2.00 | 0.00 | 9.09 | 0.02 | 0.00 | 1.84 | 2.00 | 0.00 | 9.08 | 0.02 | 0.00 |
| 1.86 | 2.00 | 0.00 | 9.07 | 0.02 | 0.00 | 1.88 | 2.00 | 0.00 | 9.06 | 0.02 | 0.00 |
| 1.90 | 2.00 | 0.00 | 9.05 | 0.02 | 0.00 | 1.92 | 2.00 | 0.00 | 9.04 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 1.94 | 2.00 | 0.00 | 9.03 | 0.02 | 0.00 | 1.96 | 2.00 | 0.00 | 9.02 | 0.02 | 0.00 |
| 1.98 | 2.00 | 0.00 | 9.01 | 0.02 | 0.00 | 2.00 | 2.00 | 0.00 | 9.00 | 0.02 | 0.00 |
| 2.02 | 2.00 | 0.00 | 8.99 | 0.02 | 0.00 | 2.04 | 2.00 | 0.00 | 8.98 | 0.02 | 0.00 |
| 2.06 | 2.00 | 0.00 | 8.97 | 0.02 | 0.00 | 2.08 | 2.00 | 0.00 | 8.96 | 0.02 | 0.00 |
| 2.10 | 2.00 | 0.00 | 8.95 | 0.02 | 0.00 | 2.12 | 2.00 | 0.00 | 8.94 | 0.02 | 0.00 |
| 2.14 | 2.00 | 0.00 | 8.93 | 0.02 | 0.00 | 2.16 | 2.00 | 0.00 | 8.92 | 0.02 | 0.00 |
| 2.18 | 2.00 | 0.00 | 8.91 | 0.02 | 0.00 | 2.20 | 2.00 | 0.00 | 8.90 | 0.02 | 0.00 |
| 2.22 | 2.00 | 0.00 | 8.89 | 0.02 | 0.00 | 2.24 | 2.00 | 0.00 | 8.88 | 0.02 | 0.00 |
| 2.26 | 2.00 | 0.00 | 8.87 | 0.02 | 0.00 | 2.28 | 2.00 | 0.00 | 8.86 | 0.02 | 0.00 |
| 2.30 | 2.00 | 0.00 | 8.85 | 0.02 | 0.00 | 2.32 | 2.00 | 0.00 | 8.84 | 0.02 | 0.00 |
| 2.34 | 2.00 | 0.00 | 8.83 | 0.02 | 0.00 | 2.36 | 2.00 | 0.00 | 8.82 | 0.02 | 0.00 |
| 2.38 | 2.00 | 0.00 | 8.81 | 0.02 | 0.00 | 2.40 | 2.00 | 0.00 | 8.80 | 0.02 | 0.00 |
| 2.42 | 2.00 | 0.00 | 8.79 | 0.02 | 0.00 | 2.44 | 2.00 | 0.00 | 8.78 | 0.02 | 0.00 |
| 2.46 | 2.00 | 0.00 | 8.77 | 0.02 | 0.00 | 2.48 | 2.00 | 0.00 | 8.76 | 0.02 | 0.00 |
| 2.50 | 2.00 | 0.00 | 8.75 | 0.02 | 0.00 | 2.52 | 2.00 | 0.00 | 8.74 | 0.02 | 0.00 |
| 2.54 | 2.00 | 0.00 | 8.73 | 0.02 | 0.00 | 2.56 | 2.00 | 0.00 | 8.72 | 0.02 | 0.00 |
| 2.58 | 2.00 | 0.00 | 8.71 | 0.02 | 0.00 | 2.60 | 2.00 | 0.00 | 8.70 | 0.02 | 0.00 |
| 2.62 | 2.00 | 0.00 | 8.69 | 0.02 | 0.00 | 2.64 | 2.00 | 0.00 | 8.68 | 0.02 | 0.00 |
| 2.66 | 2.00 | 0.00 | 8.67 | 0.02 | 0.00 | 2.68 | 2.00 | 0.00 | 8.66 | 0.02 | 0.00 |
| 2.70 | 2.00 | 0.00 | 8.65 | 0.02 | 0.00 | 2.72 | 2.00 | 0.00 | 8.64 | 0.02 | 0.00 |
| 2.74 | 2.00 | 0.00 | 8.63 | 0.02 | 0.00 | 2.76 | 2.00 | 0.00 | 8.62 | 0.02 | 0.00 |
| 2.78 | 2.00 | 0.00 | 8.61 | 0.02 | 0.00 | 2.80 | 2.00 | 0.00 | 8.60 | 0.02 | 0.00 |
| 2.82 | 2.00 | 0.00 | 8.59 | 0.02 | 0.00 | 2.84 | 2.00 | 0.00 | 8.58 | 0.02 | 0.00 |
| 2.86 | 2.00 | 0.00 | 8.57 | 0.02 | 0.00 | 2.88 | 2.00 | 0.00 | 8.56 | 0.02 | 0.00 |
| 2.90 | 2.00 | 0.00 | 8.55 | 0.02 | 0.00 | 2.92 | 2.00 | 0.00 | 8.54 | 0.02 | 0.00 |
| 2.94 | 2.00 | 0.00 | 8.53 | 0.02 | 0.00 | 2.96 | 2.00 | 0.00 | 8.52 | 0.02 | 0.00 |
| 2.98 | 2.00 | 0.00 | 8.51 | 0.02 | 0.00 | 3.00 | 2.00 | 0.00 | 8.50 | 0.02 | 0.00 |
| 3.02 | 2.00 | 0.00 | 8.49 | 0.02 | 0.00 | 3.04 | 2.00 | 0.00 | 8.48 | 0.02 | 0.00 |
| 3.06 | 2.00 | 0.00 | 8.47 | 0.02 | 0.00 | 3.08 | 2.00 | 0.00 | 8.46 | 0.02 | 0.00 |
| 3.10 | 2.00 | 0.00 | 8.45 | 0.02 | 0.00 | 3.12 | 2.00 | 0.00 | 8.44 | 0.02 | 0.00 |
| 3.14 | 2.00 | 0.00 | 8.43 | 0.02 | 0.00 | 3.16 | 2.00 | 0.00 | 8.42 | 0.02 | 0.00 |
| 3.18 | 2.00 | 0.00 | 8.41 | 0.02 | 0.00 | 3.20 | 2.00 | 0.00 | 8.40 | 0.02 | 0.00 |
| 3.22 | 2.00 | 0.00 | 8.39 | 0.02 | 0.00 | 3.24 | 2.00 | 0.00 | 8.38 | 0.02 | 0.00 |
| 3.26 | 2.00 | 0.00 | 8.37 | 0.02 | 0.00 | 3.28 | 2.00 | 0.00 | 8.36 | 0.02 | 0.00 |
| 3.30 | 2.00 | 0.00 | 8.35 | 0.02 | 0.00 | 3.32 | 2.00 | 0.00 | 8.34 | 0.02 | 0.00 |
| 3.34 | 2.00 | 0.00 | 8.33 | 0.02 | 0.00 | 3.36 | 2.00 | 0.00 | 8.32 | 0.02 | 0.00 |
| 3.38 | 2.00 | 0.00 | 8.31 | 0.02 | 0.00 | 3.40 | 2.00 | 0.00 | 8.30 | 0.02 | 0.00 |
| 3.42 | 2.00 | 0.00 | 8.29 | 0.02 | 0.00 | 3.44 | 2.00 | 0.00 | 8.28 | 0.02 | 0.00 |
| 3.46 | 2.00 | 0.00 | 8.27 | 0.02 | 0.00 | 3.48 | 2.00 | 0.00 | 8.26 | 0.02 | 0.00 |
| 3.50 | 2.00 | 0.00 | 8.25 | 0.02 | 0.00 | 3.52 | 2.00 | 0.00 | 8.24 | 0.02 | 0.00 |
| 3.54 | 2.00 | 0.00 | 8.23 | 0.02 | 0.00 | 3.56 | 2.00 | 0.00 | 8.22 | 0.02 | 0.00 |
| 3.58 | 2.00 | 0.00 | 8.21 | 0.02 | 0.00 | 3.60 | 2.00 | 0.00 | 8.20 | 0.02 | 0.00 |
| 3.62 | 0.70 | 0.30 | 8.19 | 0.02 | 0.05 | 3.64 | 2.00 | 0.00 | 8.18 | 0.02 | 0.00 |
| 3.66 | 2.00 | 0.00 | 8.17 | 0.02 | 0.00 | 3.68 | 2.00 | 0.00 | 8.16 | 0.02 | 0.00 |
| 3.70 | 2.00 | 0.00 | 8.15 | 0.02 | 0.00 | 3.72 | 2.00 | 0.00 | 8.14 | 0.02 | 0.00 |
| 3.74 | 2.00 | 0.00 | 8.13 | 0.02 | 0.00 | 3.76 | 2.00 | 0.00 | 8.12 | 0.02 | 0.00 |
| 3.78 | 2.00 | 0.00 | 8.11 | 0.02 | 0.00 | 3.80 | 0.76 | 0.24 | 8.10 | 0.02 | 0.04 |
| 3.82 | 0.74 | 0.26 | 8.09 | 0.02 | 0.04 | 3.84 | 0.73 | 0.27 | 8.08 | 0.02 | 0.04 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 3.86 | 0.72 | 0.28 | 8.07 | 0.02 | 0.05 | 3.88 | 0.72 | 0.28 | 8.06 | 0.02 | 0.05 |
| 3.90 | 0.74 | 0.26 | 8.05 | 0.02 | 0.04 | 3.92 | 0.76 | 0.24 | 8.04 | 0.02 | 0.04 |
| 3.94 | 2.00 | 0.00 | 8.03 | 0.02 | 0.00 | 3.96 | 2.00 | 0.00 | 8.02 | 0.02 | 0.00 |
| 3.98 | 2.00 | 0.00 | 8.01 | 0.02 | 0.00 | 4.00 | 2.00 | 0.00 | 8.00 | 0.02 | 0.00 |
| 4.02 | 2.00 | 0.00 | 7.99 | 0.02 | 0.00 | 4.04 | 2.00 | 0.00 | 7.98 | 0.02 | 0.00 |
| 4.06 | 2.00 | 0.00 | 7.97 | 0.02 | 0.00 | 4.08 | 2.00 | 0.00 | 7.96 | 0.02 | 0.00 |
| 4.10 | 2.00 | 0.00 | 7.95 | 0.02 | 0.00 | 4.12 | 2.00 | 0.00 | 7.94 | 0.02 | 0.00 |
| 4.14 | 2.00 | 0.00 | 7.93 | 0.02 | 0.00 | 4.16 | 2.00 | 0.00 | 7.92 | 0.02 | 0.00 |
| 4.18 | 2.00 | 0.00 | 7.91 | 0.02 | 0.00 | 4.20 | 2.00 | 0.00 | 7.90 | 0.02 | 0.00 |
| 4.22 | 2.00 | 0.00 | 7.89 | 0.02 | 0.00 | 4.24 | 0.74 | 0.26 | 7.88 | 0.02 | 0.04 |
| 4.26 | 0.76 | 0.24 | 7.87 | 0.02 | 0.04 | 4.28 | 0.78 | 0.22 | 7.86 | 0.02 | 0.03 |
| 4.30 | 0.80 | 0.20 | 7.85 | 0.02 | 0.03 | 4.32 | 0.81 | 0.19 | 7.84 | 0.02 | 0.03 |
| 4.34 | 0.83 | 0.17 | 7.83 | 0.02 | 0.03 | 4.36 | 0.84 | 0.16 | 7.82 | 0.02 | 0.02 |
| 4.38 | 0.84 | 0.16 | 7.81 | 0.02 | 0.02 | 4.40 | 2.00 | 0.00 | 7.80 | 0.02 | 0.00 |
| 4.42 | 2.00 | 0.00 | 7.79 | 0.02 | 0.00 | 4.44 | 2.00 | 0.00 | 7.78 | 0.02 | 0.00 |
| 4.46 | 2.00 | 0.00 | 7.77 | 0.02 | 0.00 | 4.48 | 2.00 | 0.00 | 7.76 | 0.02 | 0.00 |
| 4.50 | 2.00 | 0.00 | 7.75 | 0.02 | 0.00 | 4.52 | 2.00 | 0.00 | 7.74 | 0.02 | 0.00 |
| 4.54 | 2.00 | 0.00 | 7.73 | 0.02 | 0.00 | 4.56 | 0.77 | 0.23 | 7.72 | 0.02 | 0.04 |
| 4.58 | 0.82 | 0.18 | 7.71 | 0.02 | 0.03 | 4.60 | 2.00 | 0.00 | 7.70 | 0.02 | 0.00 |
| 4.62 | 2.00 | 0.00 | 7.69 | 0.02 | 0.00 | 4.64 | 2.00 | 0.00 | 7.68 | 0.02 | 0.00 |
| 4.66 | 2.00 | 0.00 | 7.67 | 0.02 | 0.00 | 4.68 | 2.00 | 0.00 | 7.66 | 0.02 | 0.00 |
| 4.70 | 0.75 | 0.25 | 7.65 | 0.02 | 0.04 | 4.72 | 0.75 | 0.25 | 7.64 | 0.02 | 0.04 |
| 4.74 | 0.71 | 0.29 | 7.63 | 0.02 | 0.04 | 4.76 | 0.85 | 0.15 | 7.62 | 0.02 | 0.02 |
| 4.78 | 0.87 | 0.13 | 7.61 | 0.02 | 0.02 | 4.80 | 0.89 | 0.11 | 7.60 | 0.02 | 0.02 |
| 4.82 | 0.92 | 0.08 | 7.59 | 0.02 | 0.01 | 4.84 | 0.95 | 0.05 | 7.58 | 0.02 | 0.01 |
| 4.86 | 0.93 | 0.07 | 7.57 | 0.02 | 0.01 | 4.88 | 0.88 | 0.12 | 7.56 | 0.02 | 0.02 |
| 4.90 | 0.85 | 0.15 | 7.55 | 0.02 | 0.02 | 4.92 | 2.00 | 0.00 | 7.54 | 0.02 | 0.00 |
| 4.94 | 2.00 | 0.00 | 7.53 | 0.02 | 0.00 | 4.96 | 2.00 | 0.00 | 7.52 | 0.02 | 0.00 |
| 4.98 | 2.00 | 0.00 | 7.51 | 0.02 | 0.00 | 5.00 | 0.81 | 0.19 | 7.50 | 0.02 | 0.03 |
| 5.02 | 0.79 | 0.21 | 7.49 | 0.02 | 0.03 | 5.04 | 0.80 | 0.20 | 7.48 | 0.02 | 0.03 |
| 5.06 | 0.85 | 0.15 | 7.47 | 0.02 | 0.02 | 5.08 | 0.89 | 0.11 | 7.46 | 0.02 | 0.02 |
| 5.10 | 0.88 | 0.12 | 7.45 | 0.02 | 0.02 | 5.12 | 0.83 | 0.17 | 7.44 | 0.02 | 0.02 |
| 5.14 | 0.80 | 0.20 | 7.43 | 0.02 | 0.03 | 5.16 | 0.82 | 0.18 | 7.42 | 0.02 | 0.03 |
| 5.18 | 0.86 | 0.14 | 7.41 | 0.02 | 0.02 | 5.20 | 0.93 | 0.07 | 7.40 | 0.02 | 0.01 |
| 5.22 | 0.96 | 0.04 | 7.39 | 0.02 | 0.01 | 5.24 | 0.97 | 0.03 | 7.38 | 0.02 | 0.00 |
| 5.26 | 0.96 | 0.04 | 7.37 | 0.02 | 0.01 | 5.28 | 0.96 | 0.04 | 7.36 | 0.02 | 0.01 |
| 5.30 | 0.94 | 0.06 | 7.35 | 0.02 | 0.01 | 5.32 | 0.93 | 0.07 | 7.34 | 0.02 | 0.01 |
| 5.34 | 0.93 | 0.07 | 7.33 | 0.02 | 0.01 | 5.36 | 0.95 | 0.05 | 7.32 | 0.02 | 0.01 |
| 5.38 | 0.97 | 0.03 | 7.31 | 0.02 | 0.00 | 5.40 | 0.99 | 0.01 | 7.30 | 0.02 | 0.00 |
| 5.42 | 1.01 | 0.00 | 7.29 | 0.02 | 0.00 | 5.44 | 2.00 | 0.00 | 7.28 | 0.02 | 0.00 |
| 5.46 | 2.00 | 0.00 | 7.27 | 0.02 | 0.00 | 5.48 | 0.86 | 0.14 | 7.26 | 0.02 | 0.02 |
| 5.50 | 0.80 | 0.20 | 7.25 | 0.02 | 0.03 | 5.52 | 0.78 | 0.22 | 7.24 | 0.02 | 0.03 |
| 5.54 | 0.79 | 0.21 | 7.23 | 0.02 | 0.03 | 5.56 | 0.82 | 0.18 | 7.22 | 0.02 | 0.03 |
| 5.58 | 0.85 | 0.15 | 7.21 | 0.02 | 0.02 | 5.60 | 0.90 | 0.10 | 7.20 | 0.02 | 0.01 |
| 5.62 | 0.94 | 0.06 | 7.19 | 0.02 | 0.01 | 5.64 | 0.96 | 0.04 | 7.18 | 0.02 | 0.01 |
| 5.66 | 0.93 | 0.07 | 7.17 | 0.02 | 0.01 | 5.68 | 0.86 | 0.14 | 7.16 | 0.02 | 0.02 |
| 5.70 | 0.82 | 0.18 | 7.15 | 0.02 | 0.03 | 5.72 | 0.82 | 0.18 | 7.14 | 0.02 | 0.03 |
| 5.74 | 0.85 | 0.15 | 7.13 | 0.02 | 0.02 | 5.76 | 0.88 | 0.12 | 7.12 | 0.02 | 0.02 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 5.78 | 0.92 | 0.08 | 7.11 | 0.02 | 0.01 | 5.80 | 0.95 | 0.05 | 7.10 | 0.02 | 0.01 |
| 5.82 | 0.96 | 0.04 | 7.09 | 0.02 | 0.01 | 5.84 | 0.96 | 0.04 | 7.08 | 0.02 | 0.01 |
| 5.86 | 0.98 | 0.02 | 7.07 | 0.02 | 0.00 | 5.88 | 1.03 | 0.00 | 7.06 | 0.02 | 0.00 |
| 5.90 | 1.10 | 0.00 | 7.05 | 0.02 | 0.00 | 5.92 | 1.15 | 0.00 | 7.04 | 0.02 | 0.00 |
| 5.94 | 1.19 | 0.00 | 7.03 | 0.02 | 0.00 | 5.96 | 1.24 | 0.00 | 7.02 | 0.02 | 0.00 |
| 5.98 | 1.27 | 0.00 | 7.01 | 0.02 | 0.00 | 6.00 | 1.26 | 0.00 | 7.00 | 0.02 | 0.00 |
| 6.02 | 1.23 | 0.00 | 6.99 | 0.02 | 0.00 | 6.04 | 1.20 | 0.00 | 6.98 | 0.02 | 0.00 |
| 6.06 | 1.18 | 0.00 | 6.97 | 0.02 | 0.00 | 6.08 | 1.16 | 0.00 | 6.96 | 0.02 | 0.00 |
| 6.10 | 1.14 | 0.00 | 6.95 | 0.02 | 0.00 | 6.12 | 1.11 | 0.00 | 6.94 | 0.02 | 0.00 |
| 6.14 | 1.09 | 0.00 | 6.93 | 0.02 | 0.00 | 6.16 | 1.07 | 0.00 | 6.92 | 0.02 | 0.00 |
| 6.18 | 1.07 | 0.00 | 6.91 | 0.02 | 0.00 | 6.20 | 1.07 | 0.00 | 6.90 | 0.02 | 0.00 |
| 6.22 | 1.07 | 0.00 | 6.89 | 0.02 | 0.00 | 6.24 | 1.07 | 0.00 | 6.88 | 0.02 | 0.00 |
| 6.26 | 1.08 | 0.00 | 6.87 | 0.02 | 0.00 | 6.28 | 1.09 | 0.00 | 6.86 | 0.02 | 0.00 |
| 6.30 | 1.08 | 0.00 | 6.85 | 0.02 | 0.00 | 6.32 | 1.09 | 0.00 | 6.84 | 0.02 | 0.00 |
| 6.34 | 1.09 | 0.00 | 6.83 | 0.02 | 0.00 | 6.36 | 1.10 | 0.00 | 6.82 | 0.02 | 0.00 |
| 6.38 | 1.10 | 0.00 | 6.81 | 0.02 | 0.00 | 6.40 | 1.12 | 0.00 | 6.80 | 0.02 | 0.00 |
| 6.42 | 1.16 | 0.00 | 6.79 | 0.02 | 0.00 | 6.44 | 1.22 | 0.00 | 6.78 | 0.02 | 0.00 |
| 6.46 | 1.28 | 0.00 | 6.77 | 0.02 | 0.00 | 6.48 | 1.29 | 0.00 | 6.76 | 0.02 | 0.00 |
| 6.50 | 1.28 | 0.00 | 6.75 | 0.02 | 0.00 | 6.52 | 1.26 | 0.00 | 6.74 | 0.02 | 0.00 |
| 6.54 | 1.23 | 0.00 | 6.73 | 0.02 | 0.00 | 6.56 | 1.19 | 0.00 | 6.72 | 0.02 | 0.00 |
| 6.58 | 1.13 | 0.00 | 6.71 | 0.02 | 0.00 | 6.60 | 1.09 | 0.00 | 6.70 | 0.02 | 0.00 |
| 6.62 | 1.06 | 0.00 | 6.69 | 0.02 | 0.00 | 6.64 | 1.06 | 0.00 | 6.68 | 0.02 | 0.00 |
| 6.66 | 1.07 | 0.00 | 6.67 | 0.02 | 0.00 | 6.68 | 1.08 | 0.00 | 6.66 | 0.02 | 0.00 |
| 6.70 | 1.09 | 0.00 | 6.65 | 0.02 | 0.00 | 6.72 | 1.09 | 0.00 | 6.64 | 0.02 | 0.00 |
| 6.74 | 1.06 | 0.00 | 6.63 | 0.02 | 0.00 | 6.76 | 1.02 | 0.00 | 6.62 | 0.02 | 0.00 |
| 6.78 | 0.99 | 0.01 | 6.61 | 0.02 | 0.00 | 6.80 | 0.99 | 0.01 | 6.60 | 0.02 | 0.00 |
| 6.82 | 1.00 | 0.00 | 6.59 | 0.02 | 0.00 | 6.84 | 1.01 | 0.00 | 6.58 | 0.02 | 0.00 |
| 6.86 | 1.01 | 0.00 | 6.57 | 0.02 | 0.00 | 6.88 | 1.02 | 0.00 | 6.56 | 0.02 | 0.00 |
| 6.90 | 1.01 | 0.00 | 6.55 | 0.02 | 0.00 | 6.92 | 0.99 | 0.01 | 6.54 | 0.02 | 0.00 |
| 6.94 | 0.98 | 0.02 | 6.53 | 0.02 | 0.00 | 6.96 | 1.00 | 0.00 | 6.52 | 0.02 | 0.00 |
| 6.98 | 1.02 | 0.00 | 6.51 | 0.02 | 0.00 | 7.00 | 1.05 | 0.00 | 6.50 | 0.02 | 0.00 |
| 7.02 | 1.08 | 0.00 | 6.49 | 0.02 | 0.00 | 7.04 | 1.10 | 0.00 | 6.48 | 0.02 | 0.00 |
| 7.06 | 1.13 | 0.00 | 6.47 | 0.02 | 0.00 | 7.08 | 1.16 | 0.00 | 6.46 | 0.02 | 0.00 |
| 7.10 | 1.19 | 0.00 | 6.45 | 0.02 | 0.00 | 7.12 | 1.21 | 0.00 | 6.44 | 0.02 | 0.00 |
| 7.14 | 1.21 | 0.00 | 6.43 | 0.02 | 0.00 | 7.16 | 1.21 | 0.00 | 6.42 | 0.02 | 0.00 |
| 7.18 | 1.21 | 0.00 | 6.41 | 0.02 | 0.00 | 7.20 | 1.21 | 0.00 | 6.40 | 0.02 | 0.00 |
| 7.22 | 1.22 | 0.00 | 6.39 | 0.02 | 0.00 | 7.24 | 1.25 | 0.00 | 6.38 | 0.02 | 0.00 |
| 7.26 | 1.28 | 0.00 | 6.37 | 0.02 | 0.00 | 7.28 | 1.30 | 0.00 | 6.36 | 0.02 | 0.00 |
| 7.30 | 1.32 | 0.00 | 6.35 | 0.02 | 0.00 | 7.32 | 1.34 | 0.00 | 6.34 | 0.02 | 0.00 |
| 7.34 | 1.36 | 0.00 | 6.33 | 0.02 | 0.00 | 7.36 | 1.38 | 0.00 | 6.32 | 0.02 | 0.00 |
| 7.38 | 1.42 | 0.00 | 6.31 | 0.02 | 0.00 | 7.40 | 1.46 | 0.00 | 6.30 | 0.02 | 0.00 |
| 7.42 | 1.49 | 0.00 | 6.29 | 0.02 | 0.00 | 7.44 | 1.51 | 0.00 | 6.28 | 0.02 | 0.00 |
| 7.46 | 1.50 | 0.00 | 6.27 | 0.02 | 0.00 | 7.48 | 1.47 | 0.00 | 6.26 | 0.02 | 0.00 |
| 7.50 | 1.42 | 0.00 | 6.25 | 0.02 | 0.00 | 7.52 | 1.36 | 0.00 | 6.24 | 0.02 | 0.00 |
| 7.54 | 1.30 | 0.00 | 6.23 | 0.02 | 0.00 | 7.56 | 1.24 | 0.00 | 6.22 | 0.02 | 0.00 |
| 7.58 | 1.19 | 0.00 | 6.21 | 0.02 | 0.00 | 7.60 | 1.16 | 0.00 | 6.20 | 0.02 | 0.00 |
| 7.62 | 1.13 | 0.00 | 6.19 | 0.02 | 0.00 | 7.64 | 1.11 | 0.00 | 6.18 | 0.02 | 0.00 |
| 7.66 | 1.09 | 0.00 | 6.17 | 0.02 | 0.00 | 7.68 | 1.07 | 0.00 | 6.16 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 7.70 | 1.07 | 0.00 | 6.15 | 0.02 | 0.00 | 7.72 | 1.06 | 0.00 | 6.14 | 0.02 | 0.00 |
| 7.74 | 1.06 | 0.00 | 6.13 | 0.02 | 0.00 | 7.76 | 1.05 | 0.00 | 6.12 | 0.02 | 0.00 |
| 7.78 | 1.06 | 0.00 | 6.11 | 0.02 | 0.00 | 7.80 | 1.06 | 0.00 | 6.10 | 0.02 | 0.00 |
| 7.82 | 1.07 | 0.00 | 6.09 | 0.02 | 0.00 | 7.84 | 1.07 | 0.00 | 6.08 | 0.02 | 0.00 |
| 7.86 | 1.07 | 0.00 | 6.07 | 0.02 | 0.00 | 7.88 | 1.08 | 0.00 | 6.06 | 0.02 | 0.00 |
| 7.90 | 1.08 | 0.00 | 6.05 | 0.02 | 0.00 | 7.92 | 1.09 | 0.00 | 6.04 | 0.02 | 0.00 |
| 7.94 | 1.10 | 0.00 | 6.03 | 0.02 | 0.00 | 7.96 | 1.11 | 0.00 | 6.02 | 0.02 | 0.00 |
| 7.98 | 1.13 | 0.00 | 6.01 | 0.02 | 0.00 | 8.00 | 1.15 | 0.00 | 6.00 | 0.02 | 0.00 |
| 8.02 | 1.18 | 0.00 | 5.99 | 0.02 | 0.00 | 8.04 | 1.22 | 0.00 | 5.98 | 0.02 | 0.00 |
| 8.06 | 1.29 | 0.00 | 5.97 | 0.02 | 0.00 | 8.08 | 1.22 | 0.00 | 5.96 | 0.02 | 0.00 |
| 8.10 | 1.27 | 0.00 | 5.95 | 0.02 | 0.00 | 8.12 | 1.27 | 0.00 | 5.94 | 0.02 | 0.00 |
| 8.14 | 1.24 | 0.00 | 5.93 | 0.02 | 0.00 | 8.16 | 1.21 | 0.00 | 5.92 | 0.02 | 0.00 |
| 8.18 | 1.18 | 0.00 | 5.91 | 0.02 | 0.00 | 8.20 | 1.15 | 0.00 | 5.90 | 0.02 | 0.00 |
| 8.22 | 1.12 | 0.00 | 5.89 | 0.02 | 0.00 | 8.24 | 1.11 | 0.00 | 5.88 | 0.02 | 0.00 |
| 8.26 | 1.10 | 0.00 | 5.87 | 0.02 | 0.00 | 8.28 | 1.23 | 0.00 | 5.86 | 0.02 | 0.00 |
| 8.30 | 1.20 | 0.00 | 5.85 | 0.02 | 0.00 | 8.32 | 1.18 | 0.00 | 5.84 | 0.02 | 0.00 |
| 8.34 | 1.17 | 0.00 | 5.83 | 0.02 | 0.00 | 8.36 | 1.06 | 0.00 | 5.82 | 0.02 | 0.00 |
| 8.38 | 1.15 | 0.00 | 5.81 | 0.02 | 0.00 | 8.40 | 1.27 | 0.00 | 5.80 | 0.02 | 0.00 |
| 8.42 | 1.36 | 0.00 | 5.79 | 0.02 | 0.00 | 8.44 | 1.36 | 0.00 | 5.78 | 0.02 | 0.00 |
| 8.46 | 1.43 | 0.00 | 5.77 | 0.02 | 0.00 | 8.48 | 1.36 | 0.00 | 5.76 | 0.02 | 0.00 |
| 8.50 | 1.28 | 0.00 | 5.75 | 0.02 | 0.00 | 8.52 | 1.23 | 0.00 | 5.74 | 0.02 | 0.00 |
| 8.54 | 1.21 | 0.00 | 5.73 | 0.02 | 0.00 | 8.56 | 1.19 | 0.00 | 5.72 | 0.02 | 0.00 |
| 8.58 | 1.19 | 0.00 | 5.71 | 0.02 | 0.00 | 8.60 | 1.21 | 0.00 | 5.70 | 0.02 | 0.00 |
| 8.62 | 1.27 | 0.00 | 5.69 | 0.02 | 0.00 | 8.64 | 1.25 | 0.00 | 5.68 | 0.02 | 0.00 |
| 8.66 | 1.39 | 0.00 | 5.67 | 0.02 | 0.00 | 8.68 | 1.43 | 0.00 | 5.66 | 0.02 | 0.00 |
| 8.70 | 1.36 | 0.00 | 5.65 | 0.02 | 0.00 | 8.72 | 1.23 | 0.00 | 5.64 | 0.02 | 0.00 |
| 8.74 | 1.28 | 0.00 | 5.63 | 0.02 | 0.00 | 8.76 | 1.19 | 0.00 | 5.62 | 0.02 | 0.00 |
| 8.78 | 1.10 | 0.00 | 5.61 | 0.02 | 0.00 | 8.80 | 1.02 | 0.00 | 5.60 | 0.02 | 0.00 |
| 8.82 | 0.95 | 0.05 | 5.59 | 0.02 | 0.01 | 8.84 | 0.78 | 0.22 | 5.58 | 0.02 | 0.02 |
| 8.86 | 0.76 | 0.24 | 5.57 | 0.02 | 0.03 | 8.88 | 0.75 | 0.25 | 5.56 | 0.02 | 0.03 |
| 8.90 | 0.75 | 0.25 | 5.55 | 0.02 | 0.03 | 8.92 | 0.75 | 0.25 | 5.54 | 0.02 | 0.03 |
| 8.94 | 0.74 | 0.26 | 5.53 | 0.02 | 0.03 | 8.96 | 0.72 | 0.28 | 5.52 | 0.02 | 0.03 |
| 8.98 | 0.70 | 0.30 | 5.51 | 0.02 | 0.03 | 9.00 | 0.81 | 0.19 | 5.50 | 0.02 | 0.02 |
| 9.02 | 0.85 | 0.15 | 5.49 | 0.02 | 0.02 | 9.04 | 0.92 | 0.08 | 5.48 | 0.02 | 0.01 |
| 9.06 | 0.98 | 0.02 | 5.47 | 0.02 | 0.00 | 9.08 | 2.00 | 0.00 | 5.46 | 0.02 | 0.00 |
| 9.10 | 2.00 | 0.00 | 5.45 | 0.02 | 0.00 | 9.12 | 2.00 | 0.00 | 5.44 | 0.02 | 0.00 |
| 9.14 | 2.00 | 0.00 | 5.43 | 0.02 | 0.00 | 9.16 | 2.00 | 0.00 | 5.42 | 0.02 | 0.00 |
| 9.18 | 2.00 | 0.00 | 5.41 | 0.02 | 0.00 | 9.20 | 2.00 | 0.00 | 5.40 | 0.02 | 0.00 |
| 9.22 | 2.00 | 0.00 | 5.39 | 0.02 | 0.00 | 9.24 | 2.00 | 0.00 | 5.38 | 0.02 | 0.00 |
| 9.26 | 2.00 | 0.00 | 5.37 | 0.02 | 0.00 | 9.28 | 2.00 | 0.00 | 5.36 | 0.02 | 0.00 |
| 9.30 | 2.00 | 0.00 | 5.35 | 0.02 | 0.00 | 9.32 | 2.00 | 0.00 | 5.34 | 0.02 | 0.00 |
| 9.34 | 2.00 | 0.00 | 5.33 | 0.02 | 0.00 | 9.36 | 2.00 | 0.00 | 5.32 | 0.02 | 0.00 |
| 9.38 | 2.00 | 0.00 | 5.31 | 0.02 | 0.00 | 9.40 | 2.00 | 0.00 | 5.30 | 0.02 | 0.00 |
| 9.42 | 2.00 | 0.00 | 5.29 | 0.02 | 0.00 | 9.44 | 2.00 | 0.00 | 5.28 | 0.02 | 0.00 |
| 9.46 | 2.00 | 0.00 | 5.27 | 0.02 | 0.00 | 9.48 | 2.00 | 0.00 | 5.26 | 0.02 | 0.00 |
| 9.50 | 2.00 | 0.00 | 5.25 | 0.02 | 0.00 | 9.52 | 2.00 | 0.00 | 5.24 | 0.02 | 0.00 |
| 9.54 | 2.00 | 0.00 | 5.23 | 0.02 | 0.00 | 9.56 | 2.00 | 0.00 | 5.22 | 0.02 | 0.00 |
| 9.58 | 2.00 | 0.00 | 5.21 | 0.02 | 0.00 | 9.60 | 2.00 | 0.00 | 5.20 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 9.62 | 2.00 | 0.00 | 5.19 | 0.02 | 0.00 | 9.64 | 2.00 | 0.00 | 5.18 | 0.02 | 0.00 |
| 9.66 | 2.00 | 0.00 | 5.17 | 0.02 | 0.00 | 9.68 | 2.00 | 0.00 | 5.16 | 0.02 | 0.00 |
| 9.70 | 2.00 | 0.00 | 5.15 | 0.02 | 0.00 | 9.72 | 2.00 | 0.00 | 5.14 | 0.02 | 0.00 |
| 9.74 | 2.00 | 0.00 | 5.13 | 0.02 | 0.00 | 9.76 | 2.00 | 0.00 | 5.12 | 0.02 | 0.00 |
| 9.78 | 2.00 | 0.00 | 5.11 | 0.02 | 0.00 | 9.80 | 2.00 | 0.00 | 5.10 | 0.02 | 0.00 |
| 9.82 | 2.00 | 0.00 | 5.09 | 0.02 | 0.00 | 9.84 | 2.00 | 0.00 | 5.08 | 0.02 | 0.00 |
| 9.86 | 2.00 | 0.00 | 5.07 | 0.02 | 0.00 | 9.88 | 2.00 | 0.00 | 5.06 | 0.02 | 0.00 |
| 9.90 | 2.00 | 0.00 | 5.05 | 0.02 | 0.00 | 9.92 | 2.00 | 0.00 | 5.04 | 0.02 | 0.00 |
| 9.94 | 2.00 | 0.00 | 5.03 | 0.02 | 0.00 | 9.96 | 2.00 | 0.00 | 5.02 | 0.02 | 0.00 |
| 9.98 | 2.00 | 0.00 | 5.01 | 0.02 | 0.00 | 10.00 | 2.00 | 0.00 | 5.00 | 0.02 | 0.00 |
| 10.02 | 2.00 | 0.00 | 4.99 | 0.02 | 0.00 | 10.04 | 2.00 | 0.00 | 4.98 | 0.02 | 0.00 |
| 10.06 | 2.00 | 0.00 | 4.97 | 0.02 | 0.00 | 10.08 | 2.00 | 0.00 | 4.96 | 0.02 | 0.00 |
| 10.10 | 2.00 | 0.00 | 4.95 | 0.02 | 0.00 | 10.12 | 2.00 | 0.00 | 4.94 | 0.02 | 0.00 |
| 10.14 | 0.86 | 0.14 | 4.93 | 0.02 | 0.01 | 10.16 | 0.91 | 0.09 | 4.92 | 0.02 | 0.01 |
| 10.18 | 0.96 | 0.04 | 4.91 | 0.02 | 0.00 | 10.20 | 0.97 | 0.03 | 4.90 | 0.02 | 0.00 |
| 10.22 | 0.98 | 0.02 | 4.89 | 0.02 | 0.00 | 10.24 | 0.99 | 0.01 | 4.88 | 0.02 | 0.00 |
| 10.26 | 0.99 | 0.01 | 4.87 | 0.02 | 0.00 | 10.28 | 0.95 | 0.05 | 4.86 | 0.02 | 0.00 |
| 10.30 | 0.91 | 0.09 | 4.85 | 0.02 | 0.01 | 10.32 | 0.89 | 0.11 | 4.84 | 0.02 | 0.01 |
| 10.34 | 0.87 | 0.13 | 4.83 | 0.02 | 0.01 | 10.36 | 0.89 | 0.11 | 4.82 | 0.02 | 0.01 |
| 10.38 | 0.93 | 0.07 | 4.81 | 0.02 | 0.01 | 10.40 | 0.98 | 0.02 | 4.80 | 0.02 | 0.00 |
| 10.42 | 1.00 | 0.00 | 4.79 | 0.02 | 0.00 | 10.44 | 1.00 | 0.00 | 4.78 | 0.02 | 0.00 |
| 10.46 | 1.01 | 0.00 | 4.77 | 0.02 | 0.00 | 10.48 | 1.04 | 0.00 | 4.76 | 0.02 | 0.00 |
| 10.50 | 1.11 | 0.00 | 4.75 | 0.02 | 0.00 | 10.52 | 1.16 | 0.00 | 4.74 | 0.02 | 0.00 |
| 10.54 | 1.14 | 0.00 | 4.73 | 0.02 | 0.00 | 10.56 | 1.07 | 0.00 | 4.72 | 0.02 | 0.00 |
| 10.58 | 1.01 | 0.00 | 4.71 | 0.02 | 0.00 | 10.60 | 0.99 | 0.01 | 4.70 | 0.02 | 0.00 |
| 10.62 | 0.99 | 0.01 | 4.69 | 0.02 | 0.00 | 10.64 | 1.01 | 0.00 | 4.68 | 0.02 | 0.00 |
| 10.66 | 1.03 | 0.00 | 4.67 | 0.02 | 0.00 | 10.68 | 1.06 | 0.00 | 4.66 | 0.02 | 0.00 |
| 10.70 | 1.11 | 0.00 | 4.65 | 0.02 | 0.00 | 10.72 | 1.17 | 0.00 | 4.64 | 0.02 | 0.00 |
| 10.74 | 1.22 | 0.00 | 4.63 | 0.02 | 0.00 | 10.76 | 1.30 | 0.00 | 4.62 | 0.02 | 0.00 |
| 10.78 | 2.00 | 0.00 | 4.61 | 0.02 | 0.00 | 10.80 | 2.00 | 0.00 | 4.60 | 0.02 | 0.00 |
| 10.82 | 2.00 | 0.00 | 4.59 | 0.02 | 0.00 | 10.84 | 2.00 | 0.00 | 4.58 | 0.02 | 0.00 |
| 10.86 | 2.00 | 0.00 | 4.57 | 0.02 | 0.00 | 10.88 | 2.00 | 0.00 | 4.56 | 0.02 | 0.00 |
| 10.90 | 0.97 | 0.03 | 4.55 | 0.02 | 0.00 | 10.92 | 0.95 | 0.05 | 4.54 | 0.02 | 0.00 |
| 10.94 | 0.95 | 0.05 | 4.53 | 0.02 | 0.00 | 10.96 | 0.98 | 0.02 | 4.52 | 0.02 | 0.00 |
| 10.98 | 0.99 | 0.01 | 4.51 | 0.02 | 0.00 | 11.00 | 0.95 | 0.05 | 4.50 | 0.02 | 0.00 |
| 11.02 | 0.94 | 0.06 | 4.49 | 0.02 | 0.01 | 11.04 | 0.98 | 0.02 | 4.48 | 0.02 | 0.00 |
| 11.06 | 1.03 | 0.00 | 4.47 | 0.02 | 0.00 | 11.08 | 1.09 | 0.00 | 4.46 | 0.02 | 0.00 |
| 11.10 | 1.14 | 0.00 | 4.45 | 0.02 | 0.00 | 11.12 | 2.00 | 0.00 | 4.44 | 0.02 | 0.00 |
| 11.14 | 2.00 | 0.00 | 4.43 | 0.02 | 0.00 | 11.16 | 2.00 | 0.00 | 4.42 | 0.02 | 0.00 |
| 11.18 | 2.00 | 0.00 | 4.41 | 0.02 | 0.00 | 11.20 | 2.00 | 0.00 | 4.40 | 0.02 | 0.00 |
| 11.22 | 2.00 | 0.00 | 4.39 | 0.02 | 0.00 | 11.24 | 2.00 | 0.00 | 4.38 | 0.02 | 0.00 |
| 11.26 | 2.00 | 0.00 | 4.37 | 0.02 | 0.00 | 11.28 | 2.00 | 0.00 | 4.36 | 0.02 | 0.00 |
| 11.30 | 2.00 | 0.00 | 4.35 | 0.02 | 0.00 | 11.32 | 2.00 | 0.00 | 4.34 | 0.02 | 0.00 |
| 11.34 | 2.00 | 0.00 | 4.33 | 0.02 | 0.00 | 11.36 | 2.00 | 0.00 | 4.32 | 0.02 | 0.00 |
| 11.38 | 2.00 | 0.00 | 4.31 | 0.02 | 0.00 | 11.40 | 2.00 | 0.00 | 4.30 | 0.02 | 0.00 |
| 11.42 | 2.00 | 0.00 | 4.29 | 0.02 | 0.00 | 11.44 | 2.00 | 0.00 | 4.28 | 0.02 | 0.00 |
| 11.46 | 2.00 | 0.00 | 4.27 | 0.02 | 0.00 | 11.48 | 2.00 | 0.00 | 4.26 | 0.02 | 0.00 |
| 11.50 | 2.00 | 0.00 | 4.25 | 0.02 | 0.00 | 11.52 | 2.00 | 0.00 | 4.24 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 11.54 | 2.00 | 0.00 | 4.23 | 0.02 | 0.00 | 11.56 | 2.00 | 0.00 | 4.22 | 0.02 | 0.00 |
| 11.58 | 2.00 | 0.00 | 4.21 | 0.02 | 0.00 | 11.60 | 2.00 | 0.00 | 4.20 | 0.02 | 0.00 |
| 11.62 | 2.00 | 0.00 | 4.19 | 0.02 | 0.00 | 11.64 | 2.00 | 0.00 | 4.18 | 0.02 | 0.00 |
| 11.66 | 2.00 | 0.00 | 4.17 | 0.02 | 0.00 | 11.68 | 2.00 | 0.00 | 4.16 | 0.02 | 0.00 |
| 11.70 | 2.00 | 0.00 | 4.15 | 0.02 | 0.00 | 11.72 | 2.00 | 0.00 | 4.14 | 0.02 | 0.00 |
| 11.74 | 2.00 | 0.00 | 4.13 | 0.02 | 0.00 | 11.76 | 2.00 | 0.00 | 4.12 | 0.02 | 0.00 |
| 11.78 | 2.00 | 0.00 | 4.11 | 0.02 | 0.00 | 11.80 | 2.00 | 0.00 | 4.10 | 0.02 | 0.00 |
| 11.82 | 2.00 | 0.00 | 4.09 | 0.02 | 0.00 | 11.84 | 2.00 | 0.00 | 4.08 | 0.02 | 0.00 |
| 11.86 | 2.00 | 0.00 | 4.07 | 0.02 | 0.00 | 11.88 | 2.00 | 0.00 | 4.06 | 0.02 | 0.00 |
| 11.90 | 2.00 | 0.00 | 4.05 | 0.02 | 0.00 | 11.92 | 2.00 | 0.00 | 4.04 | 0.02 | 0.00 |
| 11.94 | 0.94 | 0.06 | 4.03 | 0.02 | 0.00 | 11.96 | 0.97 | 0.03 | 4.02 | 0.02 | 0.00 |
| 11.98 | 2.00 | 0.00 | 4.01 | 0.02 | 0.00 | 12.00 | 2.00 | 0.00 | 4.00 | 0.02 | 0.00 |
| 12.02 | 2.00 | 0.00 | 3.99 | 0.02 | 0.00 | 12.04 | 2.00 | 0.00 | 3.98 | 0.02 | 0.00 |
| 12.06 | 2.00 | 0.00 | 3.97 | 0.02 | 0.00 | 12.08 | 2.00 | 0.00 | 3.96 | 0.02 | 0.00 |
| 12.10 | 2.00 | 0.00 | 3.95 | 0.02 | 0.00 | 12.12 | 2.00 | 0.00 | 3.94 | 0.02 | 0.00 |
| 12.14 | 2.00 | 0.00 | 3.93 | 0.02 | 0.00 | 12.16 | 2.00 | 0.00 | 3.92 | 0.02 | 0.00 |
| 12.18 | 2.00 | 0.00 | 3.91 | 0.02 | 0.00 | 12.20 | 2.00 | 0.00 | 3.90 | 0.02 | 0.00 |
| 12.22 | 2.00 | 0.00 | 3.89 | 0.02 | 0.00 | 12.24 | 2.00 | 0.00 | 3.88 | 0.02 | 0.00 |
| 12.26 | 2.00 | 0.00 | 3.87 | 0.02 | 0.00 | 12.28 | 2.00 | 0.00 | 3.86 | 0.02 | 0.00 |
| 12.30 | 2.00 | 0.00 | 3.85 | 0.02 | 0.00 | 12.32 | 2.00 | 0.00 | 3.84 | 0.02 | 0.00 |
| 12.34 | 2.00 | 0.00 | 3.83 | 0.02 | 0.00 | 12.36 | 2.00 | 0.00 | 3.82 | 0.02 | 0.00 |
| 12.38 | 2.00 | 0.00 | 3.81 | 0.02 | 0.00 | 12.40 | 2.00 | 0.00 | 3.80 | 0.02 | 0.00 |
| 12.42 | 2.00 | 0.00 | 3.79 | 0.02 | 0.00 | 12.44 | 2.00 | 0.00 | 3.78 | 0.02 | 0.00 |
| 12.46 | 2.00 | 0.00 | 3.77 | 0.02 | 0.00 | 12.48 | 2.00 | 0.00 | 3.76 | 0.02 | 0.00 |
| 12.50 | 2.00 | 0.00 | 3.75 | 0.02 | 0.00 | 12.52 | 2.00 | 0.00 | 3.74 | 0.02 | 0.00 |
| 12.54 | 2.00 | 0.00 | 3.73 | 0.02 | 0.00 | 12.56 | 2.00 | 0.00 | 3.72 | 0.02 | 0.00 |
| 12.58 | 2.00 | 0.00 | 3.71 | 0.02 | 0.00 | 12.60 | 2.00 | 0.00 | 3.70 | 0.02 | 0.00 |
| 12.62 | 2.00 | 0.00 | 3.69 | 0.02 | 0.00 | 12.64 | 2.00 | 0.00 | 3.68 | 0.02 | 0.00 |
| 12.66 | 2.00 | 0.00 | 3.67 | 0.02 | 0.00 | 12.68 | 2.00 | 0.00 | 3.66 | 0.02 | 0.00 |
| 12.70 | 2.00 | 0.00 | 3.65 | 0.02 | 0.00 | 12.72 | 2.00 | 0.00 | 3.64 | 0.02 | 0.00 |
| 12.74 | 2.00 | 0.00 | 3.63 | 0.02 | 0.00 | 12.76 | 2.00 | 0.00 | 3.62 | 0.02 | 0.00 |
| 12.78 | 2.00 | 0.00 | 3.61 | 0.02 | 0.00 | 12.80 | 2.00 | 0.00 | 3.60 | 0.02 | 0.00 |
| 12.82 | 2.00 | 0.00 | 3.59 | 0.02 | 0.00 | 12.84 | 2.00 | 0.00 | 3.58 | 0.02 | 0.00 |
| 12.86 | 2.00 | 0.00 | 3.57 | 0.02 | 0.00 | 12.88 | 2.00 | 0.00 | 3.56 | 0.02 | 0.00 |
| 12.90 | 2.00 | 0.00 | 3.55 | 0.02 | 0.00 | 12.92 | 2.00 | 0.00 | 3.54 | 0.02 | 0.00 |
| 12.94 | 2.00 | 0.00 | 3.53 | 0.02 | 0.00 | 12.96 | 2.00 | 0.00 | 3.52 | 0.02 | 0.00 |
| 12.98 | 2.00 | 0.00 | 3.51 | 0.02 | 0.00 | 13.00 | 2.00 | 0.00 | 3.50 | 0.02 | 0.00 |
| 13.02 | 2.00 | 0.00 | 3.49 | 0.02 | 0.00 | 13.04 | 2.00 | 0.00 | 3.48 | 0.02 | 0.00 |
| 13.06 | 2.00 | 0.00 | 3.47 | 0.02 | 0.00 | 13.08 | 0.93 | 0.07 | 3.46 | 0.02 | 0.00 |
| 13.10 | 0.97 | 0.03 | 3.45 | 0.02 | 0.00 | 13.12 | 0.99 | 0.01 | 3.44 | 0.02 | 0.00 |
| 13.14 | 1.01 | 0.00 | 3.43 | 0.02 | 0.00 | 13.16 | 1.00 | 0.00 | 3.42 | 0.02 | 0.00 |
| 13.18 | 0.99 | 0.01 | 3.41 | 0.02 | 0.00 | 13.20 | 0.99 | 0.01 | 3.40 | 0.02 | 0.00 |
| 13.22 | 1.03 | 0.00 | 3.39 | 0.02 | 0.00 | 13.24 | 1.12 | 0.00 | 3.38 | 0.02 | 0.00 |
| 13.26 | 1.24 | 0.00 | 3.37 | 0.02 | 0.00 | 13.28 | 1.32 | 0.00 | 3.36 | 0.02 | 0.00 |
| 13.30 | 1.34 | 0.00 | 3.35 | 0.02 | 0.00 | 13.32 | 1.33 | 0.00 | 3.34 | 0.02 | 0.00 |
| 13.34 | 1.30 | 0.00 | 3.33 | 0.02 | 0.00 | 13.36 | 1.29 | 0.00 | 3.32 | 0.02 | 0.00 |
| 13.38 | 1.31 | 0.00 | 3.31 | 0.02 | 0.00 | 13.40 | 1.41 | 0.00 | 3.30 | 0.02 | 0.00 |
| 13.42 | 1.49 | 0.00 | 3.29 | 0.02 | 0.00 | 13.44 | 1.48 | 0.00 | 3.28 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 13.46 | 1.39 | 0.00 | 3.27 | 0.02 | 0.00 | 13.48 | 2.00 | 0.00 | 3.26 | 0.02 | 0.00 |
| 13.50 | 1.17 | 0.00 | 3.25 | 0.02 | 0.00 | 13.52 | 1.06 | 0.00 | 3.24 | 0.02 | 0.00 |
| 13.54 | 1.14 | 0.00 | 3.23 | 0.02 | 0.00 | 13.56 | 1.33 | 0.00 | 3.22 | 0.02 | 0.00 |
| 13.58 | 1.46 | 0.00 | 3.21 | 0.02 | 0.00 | 13.60 | 1.46 | 0.00 | 3.20 | 0.02 | 0.00 |
| 13.62 | 1.39 | 0.00 | 3.19 | 0.02 | 0.00 | 13.64 | 1.32 | 0.00 | 3.18 | 0.02 | 0.00 |
| 13.66 | 1.25 | 0.00 | 3.17 | 0.02 | 0.00 | 13.68 | 1.20 | 0.00 | 3.16 | 0.02 | 0.00 |
| 13.70 | 1.15 | 0.00 | 3.15 | 0.02 | 0.00 | 13.72 | 1.11 | 0.00 | 3.14 | 0.02 | 0.00 |
| 13.74 | 1.10 | 0.00 | 3.13 | 0.02 | 0.00 | 13.76 | 1.08 | 0.00 | 3.12 | 0.02 | 0.00 |
| 13.78 | 1.07 | 0.00 | 3.11 | 0.02 | 0.00 | 13.80 | 1.07 | 0.00 | 3.10 | 0.02 | 0.00 |
| 13.82 | 1.08 | 0.00 | 3.09 | 0.02 | 0.00 | 13.84 | 1.12 | 0.00 | 3.08 | 0.02 | 0.00 |
| 13.86 | 1.14 | 0.00 | 3.07 | 0.02 | 0.00 | 13.88 | 1.19 | 0.00 | 3.06 | 0.02 | 0.00 |
| 13.90 | 1.18 | 0.00 | 3.05 | 0.02 | 0.00 | 13.92 | 1.18 | 0.00 | 3.04 | 0.02 | 0.00 |
| 13.94 | 1.14 | 0.00 | 3.03 | 0.02 | 0.00 | 13.96 | 1.17 | 0.00 | 3.02 | 0.02 | 0.00 |
| 13.98 | 1.18 | 0.00 | 3.01 | 0.02 | 0.00 | 14.00 | 1.19 | 0.00 | 3.00 | 0.02 | 0.00 |
| 14.02 | 1.18 | 0.00 | 2.99 | 0.02 | 0.00 | 14.04 | 1.17 | 0.00 | 2.98 | 0.02 | 0.00 |
| 14.06 | 1.16 | 0.00 | 2.97 | 0.02 | 0.00 | 14.08 | 1.18 | 0.00 | 2.96 | 0.02 | 0.00 |
| 14.10 | 1.24 | 0.00 | 2.95 | 0.02 | 0.00 | 14.12 | 1.34 | 0.00 | 2.94 | 0.02 | 0.00 |
| 14.14 | 1.42 | 0.00 | 2.93 | 0.02 | 0.00 | 14.16 | 1.39 | 0.00 | 2.92 | 0.02 | 0.00 |
| 14.18 | 1.32 | 0.00 | 2.91 | 0.02 | 0.00 | 14.20 | 1.22 | 0.00 | 2.90 | 0.02 | 0.00 |
| 14.22 | 1.16 | 0.00 | 2.89 | 0.02 | 0.00 | 14.24 | 1.17 | 0.00 | 2.88 | 0.02 | 0.00 |
| 14.26 | 1.29 | 0.00 | 2.87 | 0.02 | 0.00 | 14.28 | 1.47 | 0.00 | 2.86 | 0.02 | 0.00 |
| 14.30 | 1.58 | 0.00 | 2.85 | 0.02 | 0.00 | 14.32 | 1.60 | 0.00 | 2.84 | 0.02 | 0.00 |
| 14.34 | 1.54 | 0.00 | 2.83 | 0.02 | 0.00 | 14.36 | 1.47 | 0.00 | 2.82 | 0.02 | 0.00 |
| 14.38 | 1.43 | 0.00 | 2.81 | 0.02 | 0.00 | 14.40 | 1.41 | 0.00 | 2.80 | 0.02 | 0.00 |
| 14.42 | 1.39 | 0.00 | 2.79 | 0.02 | 0.00 | 14.44 | 1.37 | 0.00 | 2.78 | 0.02 | 0.00 |
| 14.46 | 1.38 | 0.00 | 2.77 | 0.02 | 0.00 | 14.48 | 1.44 | 0.00 | 2.76 | 0.02 | 0.00 |
| 14.50 | 1.51 | 0.00 | 2.75 | 0.02 | 0.00 | 14.52 | 1.52 | 0.00 | 2.74 | 0.02 | 0.00 |
| 14.54 | 1.47 | 0.00 | 2.73 | 0.02 | 0.00 | 14.56 | 1.38 | 0.00 | 2.72 | 0.02 | 0.00 |
| 14.58 | 1.30 | 0.00 | 2.71 | 0.02 | 0.00 | 14.60 | 1.22 | 0.00 | 2.70 | 0.02 | 0.00 |
| 14.62 | 1.16 | 0.00 | 2.69 | 0.02 | 0.00 | 14.64 | 1.11 | 0.00 | 2.68 | 0.02 | 0.00 |
| 14.66 | 1.10 | 0.00 | 2.67 | 0.02 | 0.00 | 14.68 | 1.09 | 0.00 | 2.66 | 0.02 | 0.00 |
| 14.70 | 1.07 | 0.00 | 2.65 | 0.02 | 0.00 | 14.72 | 1.04 | 0.00 | 2.64 | 0.02 | 0.00 |
| 14.74 | 1.04 | 0.00 | 2.63 | 0.02 | 0.00 | 14.76 | 1.08 | 0.00 | 2.62 | 0.02 | 0.00 |
| 14.78 | 1.14 | 0.00 | 2.61 | 0.02 | 0.00 | 14.80 | 1.17 | 0.00 | 2.60 | 0.02 | 0.00 |
| 14.82 | 1.16 | 0.00 | 2.59 | 0.02 | 0.00 | 14.84 | 1.13 | 0.00 | 2.58 | 0.02 | 0.00 |
| 14.86 | 1.09 | 0.00 | 2.57 | 0.02 | 0.00 | 14.88 | 1.10 | 0.00 | 2.56 | 0.02 | 0.00 |
| 14.90 | 1.20 | 0.00 | 2.55 | 0.02 | 0.00 | 14.92 | 1.40 | 0.00 | 2.54 | 0.02 | 0.00 |
| 14.94 | 1.58 | 0.00 | 2.53 | 0.02 | 0.00 | 14.96 | 1.73 | 0.00 | 2.52 | 0.02 | 0.00 |
| 14.98 | 1.85 | 0.00 | 2.51 | 0.02 | 0.00 | 15.00 | 1.94 | 0.00 | 2.50 | 0.02 | 0.00 |
| 15.02 | 1.97 | 0.00 | 2.49 | 0.02 | 0.00 | 15.04 | 1.96 | 0.00 | 2.48 | 0.02 | 0.00 |
| 15.06 | 1.89 | 0.00 | 2.47 | 0.02 | 0.00 | 15.08 | 1.77 | 0.00 | 2.46 | 0.02 | 0.00 |
| 15.10 | 1.67 | 0.00 | 2.45 | 0.02 | 0.00 | 15.12 | 1.61 | 0.00 | 2.44 | 0.02 | 0.00 |
| 15.14 | 1.62 | 0.00 | 2.43 | 0.02 | 0.00 | 15.16 | 1.65 | 0.00 | 2.42 | 0.02 | 0.00 |
| 15.18 | 1.72 | 0.00 | 2.41 | 0.02 | 0.00 | 15.20 | 1.81 | 0.00 | 2.40 | 0.02 | 0.00 |
| 15.22 | 1.87 | 0.00 | 2.39 | 0.02 | 0.00 | 15.24 | 1.81 | 0.00 | 2.38 | 0.02 | 0.00 |
| 15.26 | 1.65 | 0.00 | 2.37 | 0.02 | 0.00 | 15.28 | 2.00 | 0.00 | 2.36 | 0.02 | 0.00 |
| 15.30 | 1.34 | 0.00 | 2.35 | 0.02 | 0.00 | 15.32 | 1.19 | 0.00 | 2.34 | 0.02 | 0.00 |
| 15.34 | 1.14 | 0.00 | 2.33 | 0.02 | 0.00 | 15.36 | 1.24 | 0.00 | 2.32 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 15.38 | 1.38 | 0.00 | 2.31 | 0.02 | 0.00 | 15.40 | 1.47 | 0.00 | 2.30 | 0.02 | 0.00 |
| 15.42 | 1.49 | 0.00 | 2.29 | 0.02 | 0.00 | 15.44 | 1.50 | 0.00 | 2.28 | 0.02 | 0.00 |
| 15.46 | 1.52 | 0.00 | 2.27 | 0.02 | 0.00 | 15.48 | 1.57 | 0.00 | 2.26 | 0.02 | 0.00 |
| 15.50 | 1.62 | 0.00 | 2.25 | 0.02 | 0.00 | 15.52 | 1.64 | 0.00 | 2.24 | 0.02 | 0.00 |
| 15.54 | 1.59 | 0.00 | 2.23 | 0.02 | 0.00 | 15.56 | 1.48 | 0.00 | 2.22 | 0.02 | 0.00 |
| 15.58 | 1.39 | 0.00 | 2.21 | 0.02 | 0.00 | 15.60 | 1.34 | 0.00 | 2.20 | 0.02 | 0.00 |
| 15.62 | 1.32 | 0.00 | 2.19 | 0.02 | 0.00 | 15.64 | 1.30 | 0.00 | 2.18 | 0.02 | 0.00 |
| 15.66 | 1.27 | 0.00 | 2.17 | 0.02 | 0.00 | 15.68 | 1.20 | 0.00 | 2.16 | 0.02 | 0.00 |
| 15.70 | 1.13 | 0.00 | 2.15 | 0.02 | 0.00 | 15.72 | 1.07 | 0.00 | 2.14 | 0.02 | 0.00 |
| 15.74 | 1.04 | 0.00 | 2.13 | 0.02 | 0.00 | 15.76 | 1.00 | 0.00 | 2.12 | 0.02 | 0.00 |
| 15.78 | 0.97 | 0.03 | 2.11 | 0.02 | 0.00 | 15.80 | 0.94 | 0.06 | 2.10 | 0.02 | 0.00 |
| 15.82 | 0.91 | 0.09 | 2.09 | 0.02 | 0.00 | 15.84 | 0.90 | 0.10 | 2.08 | 0.02 | 0.00 |
| 15.86 | 0.90 | 0.10 | 2.07 | 0.02 | 0.00 | 15.88 | 0.91 | 0.09 | 2.06 | 0.02 | 0.00 |
| 15.90 | 0.92 | 0.08 | 2.05 | 0.02 | 0.00 | 15.92 | 0.91 | 0.09 | 2.04 | 0.02 | 0.00 |
| 15.94 | 0.92 | 0.08 | 2.03 | 0.02 | 0.00 | 15.96 | 0.96 | 0.04 | 2.02 | 0.02 | 0.00 |
| 15.98 | 1.00 | 0.00 | 2.01 | 0.02 | 0.00 | 16.00 | 1.01 | 0.00 | 2.00 | 0.02 | 0.00 |
| 16.02 | 0.98 | 0.02 | 1.99 | 0.02 | 0.00 | 16.04 | 0.97 | 0.03 | 1.98 | 0.02 | 0.00 |
| 16.06 | 0.99 | 0.01 | 1.97 | 0.02 | 0.00 | 16.08 | 1.01 | 0.00 | 1.96 | 0.02 | 0.00 |
| 16.10 | 1.04 | 0.00 | 1.95 | 0.02 | 0.00 | 16.12 | 2.00 | 0.00 | 1.94 | 0.02 | 0.00 |
| 16.14 | 2.00 | 0.00 | 1.93 | 0.02 | 0.00 | 16.16 | 2.00 | 0.00 | 1.92 | 0.02 | 0.00 |
| 16.18 | 2.00 | 0.00 | 1.91 | 0.02 | 0.00 | 16.20 | 2.00 | 0.00 | 1.90 | 0.02 | 0.00 |
| 16.22 | 2.00 | 0.00 | 1.89 | 0.02 | 0.00 | 16.24 | 2.00 | 0.00 | 1.88 | 0.02 | 0.00 |
| 16.26 | 2.00 | 0.00 | 1.87 | 0.02 | 0.00 | 16.28 | 1.13 | 0.00 | 1.86 | 0.02 | 0.00 |
| 16.30 | 1.16 | 0.00 | 1.85 | 0.02 | 0.00 | 16.32 | 1.12 | 0.00 | 1.84 | 0.02 | 0.00 |
| 16.34 | 2.00 | 0.00 | 1.83 | 0.02 | 0.00 | 16.36 | 2.00 | 0.00 | 1.82 | 0.02 | 0.00 |
| 16.38 | 0.98 | 0.02 | 1.81 | 0.02 | 0.00 | 16.40 | 0.95 | 0.05 | 1.80 | 0.02 | 0.00 |
| 16.42 | 0.95 | 0.05 | 1.79 | 0.02 | 0.00 | 16.44 | 0.96 | 0.04 | 1.78 | 0.02 | 0.00 |
| 16.46 | 0.96 | 0.04 | 1.77 | 0.02 | 0.00 | 16.48 | 0.96 | 0.04 | 1.76 | 0.02 | 0.00 |
| 16.50 | 0.96 | 0.04 | 1.75 | 0.02 | 0.00 | 16.52 | 0.97 | 0.03 | 1.74 | 0.02 | 0.00 |
| 16.54 | 0.96 | 0.04 | 1.73 | 0.02 | 0.00 | 16.56 | 0.96 | 0.04 | 1.72 | 0.02 | 0.00 |
| 16.58 | 0.95 | 0.05 | 1.71 | 0.02 | 0.00 | 16.60 | 0.94 | 0.06 | 1.70 | 0.02 | 0.00 |
| 16.62 | 0.94 | 0.06 | 1.69 | 0.02 | 0.00 | 16.64 | 0.96 | 0.04 | 1.68 | 0.02 | 0.00 |
| 16.66 | 0.99 | 0.01 | 1.67 | 0.02 | 0.00 | 16.68 | 1.02 | 0.00 | 1.66 | 0.02 | 0.00 |
| 16.70 | 1.02 | 0.00 | 1.65 | 0.02 | 0.00 | 16.72 | 1.01 | 0.00 | 1.64 | 0.02 | 0.00 |
| 16.74 | 1.02 | 0.00 | 1.63 | 0.02 | 0.00 | 16.76 | 1.09 | 0.00 | 1.62 | 0.02 | 0.00 |
| 16.78 | 1.21 | 0.00 | 1.61 | 0.02 | 0.00 | 16.80 | 1.33 | 0.00 | 1.60 | 0.02 | 0.00 |
| 16.82 | 1.42 | 0.00 | 1.59 | 0.02 | 0.00 | 16.84 | 1.49 | 0.00 | 1.58 | 0.02 | 0.00 |
| 16.86 | 1.50 | 0.00 | 1.57 | 0.02 | 0.00 | 16.88 | 2.00 | 0.00 | 1.56 | 0.02 | 0.00 |
| 16.90 | 2.00 | 0.00 | 1.55 | 0.02 | 0.00 | 16.92 | 2.00 | 0.00 | 1.54 | 0.02 | 0.00 |
| 16.94 | 2.00 | 0.00 | 1.53 | 0.02 | 0.00 | 16.96 | 2.00 | 0.00 | 1.52 | 0.02 | 0.00 |
| 16.98 | 2.00 | 0.00 | 1.51 | 0.02 | 0.00 | 17.00 | 2.00 | 0.00 | 1.50 | 0.02 | 0.00 |
| 17.02 | 2.00 | 0.00 | 1.49 | 0.02 | 0.00 | 17.04 | 2.00 | 0.00 | 1.48 | 0.02 | 0.00 |
| 17.06 | 2.00 | 0.00 | 1.47 | 0.02 | 0.00 | 17.08 | 2.00 | 0.00 | 1.46 | 0.02 | 0.00 |
| 17.10 | 2.00 | 0.00 | 1.45 | 0.02 | 0.00 | 17.12 | 2.00 | 0.00 | 1.44 | 0.02 | 0.00 |
| 17.14 | 2.00 | 0.00 | 1.43 | 0.02 | 0.00 | 17.16 | 2.00 | 0.00 | 1.42 | 0.02 | 0.00 |
| 17.18 | 2.00 | 0.00 | 1.41 | 0.02 | 0.00 | 17.20 | 2.00 | 0.00 | 1.40 | 0.02 | 0.00 |
| 17.22 | 2.00 | 0.00 | 1.39 | 0.02 | 0.00 | 17.24 | 2.00 | 0.00 | 1.38 | 0.02 | 0.00 |
| 17.26 | 2.00 | 0.00 | 1.37 | 0.02 | 0.00 | 17.28 | 2.00 | 0.00 | 1.36 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 17.30 | 2.00 | 0.00 | 1.35 | 0.02 | 0.00 | 17.32 | 2.00 | 0.00 | 1.34 | 0.02 | 0.00 |
| 17.34 | 2.00 | 0.00 | 1.33 | 0.02 | 0.00 | 17.36 | 2.00 | 0.00 | 1.32 | 0.02 | 0.00 |
| 17.38 | 2.00 | 0.00 | 1.31 | 0.02 | 0.00 | 17.40 | 2.00 | 0.00 | 1.30 | 0.02 | 0.00 |
| 17.42 | 2.00 | 0.00 | 1.29 | 0.02 | 0.00 | 17.44 | 2.00 | 0.00 | 1.28 | 0.02 | 0.00 |
| 17.46 | 2.00 | 0.00 | 1.27 | 0.02 | 0.00 | 17.48 | 2.00 | 0.00 | 1.26 | 0.02 | 0.00 |
| 17.50 | 2.00 | 0.00 | 1.25 | 0.02 | 0.00 | 17.52 | 2.00 | 0.00 | 1.24 | 0.02 | 0.00 |
| 17.54 | 2.00 | 0.00 | 1.23 | 0.02 | 0.00 | 17.56 | 2.00 | 0.00 | 1.22 | 0.02 | 0.00 |
| 17.58 | 2.00 | 0.00 | 1.21 | 0.02 | 0.00 | 17.60 | 2.00 | 0.00 | 1.20 | 0.02 | 0.00 |
| 17.62 | 2.00 | 0.00 | 1.19 | 0.02 | 0.00 | 17.64 | 2.00 | 0.00 | 1.18 | 0.02 | 0.00 |
| 17.66 | 2.00 | 0.00 | 1.17 | 0.02 | 0.00 | 17.68 | 2.00 | 0.00 | 1.16 | 0.02 | 0.00 |
| 17.70 | 2.00 | 0.00 | 1.15 | 0.02 | 0.00 | 17.72 | 2.00 | 0.00 | 1.14 | 0.02 | 0.00 |
| 17.74 | 2.00 | 0.00 | 1.13 | 0.02 | 0.00 | 17.76 | 2.00 | 0.00 | 1.12 | 0.02 | 0.00 |
| 17.78 | 2.00 | 0.00 | 1.11 | 0.02 | 0.00 | 17.80 | 2.00 | 0.00 | 1.10 | 0.02 | 0.00 |
| 17.82 | 2.00 | 0.00 | 1.09 | 0.02 | 0.00 | 17.84 | 2.00 | 0.00 | 1.08 | 0.02 | 0.00 |
| 17.86 | 2.00 | 0.00 | 1.07 | 0.02 | 0.00 | 17.88 | 2.00 | 0.00 | 1.06 | 0.02 | 0.00 |
| 17.90 | 2.00 | 0.00 | 1.05 | 0.02 | 0.00 | 17.92 | 2.00 | 0.00 | 1.04 | 0.02 | 0.00 |
| 17.94 | 2.00 | 0.00 | 1.03 | 0.02 | 0.00 | 17.96 | 2.00 | 0.00 | 1.02 | 0.02 | 0.00 |
| 17.98 | 2.00 | 0.00 | 1.01 | 0.02 | 0.00 | 18.00 | 2.00 | 0.00 | 1.00 | 0.02 | 0.00 |
| 18.02 | 2.00 | 0.00 | 0.99 | 0.02 | 0.00 | 18.04 | 2.00 | 0.00 | 0.98 | 0.02 | 0.00 |
| 18.06 | 2.00 | 0.00 | 0.97 | 0.02 | 0.00 | 18.08 | 2.00 | 0.00 | 0.96 | 0.02 | 0.00 |
| 18.10 | 2.00 | 0.00 | 0.95 | 0.02 | 0.00 | 18.12 | 2.00 | 0.00 | 0.94 | 0.02 | 0.00 |
| 18.14 | 2.00 | 0.00 | 0.93 | 0.02 | 0.00 | 18.16 | 2.00 | 0.00 | 0.92 | 0.02 | 0.00 |
| 18.18 | 2.00 | 0.00 | 0.91 | 0.02 | 0.00 | 18.20 | 2.00 | 0.00 | 0.90 | 0.02 | 0.00 |
| 18.22 | 2.00 | 0.00 | 0.89 | 0.02 | 0.00 | 18.24 | 2.00 | 0.00 | 0.88 | 0.02 | 0.00 |
| 18.26 | 2.00 | 0.00 | 0.87 | 0.02 | 0.00 | 18.28 | 2.00 | 0.00 | 0.86 | 0.02 | 0.00 |
| 18.30 | 2.00 | 0.00 | 0.85 | 0.02 | 0.00 | 18.32 | 2.00 | 0.00 | 0.84 | 0.02 | 0.00 |
| 18.34 | 2.00 | 0.00 | 0.83 | 0.02 | 0.00 | 18.36 | 2.00 | 0.00 | 0.82 | 0.02 | 0.00 |
| 18.38 | 2.00 | 0.00 | 0.81 | 0.02 | 0.00 | 18.40 | 2.00 | 0.00 | 0.80 | 0.02 | 0.00 |
| 18.42 | 2.00 | 0.00 | 0.79 | 0.02 | 0.00 | 18.44 | 2.00 | 0.00 | 0.78 | 0.02 | 0.00 |
| 18.46 | 2.00 | 0.00 | 0.77 | 0.02 | 0.00 | 18.48 | 2.00 | 0.00 | 0.76 | 0.02 | 0.00 |
| 18.50 | 2.00 | 0.00 | 0.75 | 0.02 | 0.00 | 18.52 | 2.00 | 0.00 | 0.74 | 0.02 | 0.00 |
| 18.54 | 2.00 | 0.00 | 0.73 | 0.02 | 0.00 | 18.56 | 2.00 | 0.00 | 0.72 | 0.02 | 0.00 |
| 18.58 | 2.00 | 0.00 | 0.71 | 0.02 | 0.00 | 18.60 | 1.05 | 0.00 | 0.70 | 0.02 | 0.00 |
| 18.62 | 1.12 | 0.00 | 0.69 | 0.02 | 0.00 | 18.64 | 1.15 | 0.00 | 0.68 | 0.02 | 0.00 |
| 18.66 | 1.14 | 0.00 | 0.67 | 0.02 | 0.00 | 18.68 | 1.11 | 0.00 | 0.66 | 0.02 | 0.00 |
| 18.70 | 1.10 | 0.00 | 0.65 | 0.02 | 0.00 | 18.72 | 1.14 | 0.00 | 0.64 | 0.02 | 0.00 |
| 18.74 | 1.21 | 0.00 | 0.63 | 0.02 | 0.00 | 18.76 | 1.23 | 0.00 | 0.62 | 0.02 | 0.00 |
| 18.78 | 1.23 | 0.00 | 0.61 | 0.02 | 0.00 | 18.80 | 1.26 | 0.00 | 0.60 | 0.02 | 0.00 |
| 18.82 | 1.30 | 0.00 | 0.59 | 0.02 | 0.00 | 18.84 | 1.33 | 0.00 | 0.58 | 0.02 | 0.00 |
| 18.86 | 1.34 | 0.00 | 0.57 | 0.02 | 0.00 | 18.88 | 2.00 | 0.00 | 0.56 | 0.02 | 0.00 |
| 18.90 | 2.00 | 0.00 | 0.55 | 0.02 | 0.00 | 18.92 | 2.00 | 0.00 | 0.54 | 0.02 | 0.00 |
| 18.94 | 2.00 | 0.00 | 0.53 | 0.02 | 0.00 | 18.96 | 2.00 | 0.00 | 0.52 | 0.02 | 0.00 |
| 18.98 | 2.00 | 0.00 | 0.51 | 0.02 | 0.00 | 19.00 | 2.00 | 0.00 | 0.50 | 0.02 | 0.00 |
| 19.02 | 2.00 | 0.00 | 0.49 | 0.02 | 0.00 | 19.04 | 2.00 | 0.00 | 0.48 | 0.02 | 0.00 |
| 19.06 | 2.00 | 0.00 | 0.47 | 0.02 | 0.00 | 19.08 | 2.00 | 0.00 | 0.46 | 0.02 | 0.00 |
| 19.10 | 2.00 | 0.00 | 0.45 | 0.02 | 0.00 | 19.12 | 2.00 | 0.00 | 0.44 | 0.02 | 0.00 |
| 19.14 | 2.00 | 0.00 | 0.43 | 0.02 | 0.00 | 19.16 | 2.00 | 0.00 | 0.42 | 0.02 | 0.00 |
| 19.18 | 2.00 | 0.00 | 0.41 | 0.02 | 0.00 | 19.20 | 2.00 | 0.00 | 0.40 | 0.02 | 0.00 |

:: Liquefaction Potential Index calculation data :: (continued)

| Depth (m) | FS | F _L | w _z | d _z | LPI | Depth (m) | FS | F _L | w _z | d _z | LPI |
|-----------|------|----------------|----------------|----------------|------|-----------|------|----------------|----------------|----------------|------|
| 19.22 | 2.00 | 0.00 | 0.39 | 0.02 | 0.00 | 19.24 | 2.00 | 0.00 | 0.38 | 0.02 | 0.00 |
| 19.26 | 2.00 | 0.00 | 0.37 | 0.02 | 0.00 | 19.28 | 2.00 | 0.00 | 0.36 | 0.02 | 0.00 |
| 19.30 | 2.00 | 0.00 | 0.35 | 0.02 | 0.00 | 19.32 | 2.00 | 0.00 | 0.34 | 0.02 | 0.00 |
| 19.34 | 2.00 | 0.00 | 0.33 | 0.02 | 0.00 | 19.36 | 2.00 | 0.00 | 0.32 | 0.02 | 0.00 |
| 19.38 | 2.00 | 0.00 | 0.31 | 0.02 | 0.00 | 19.40 | 2.00 | 0.00 | 0.30 | 0.02 | 0.00 |
| 19.42 | 2.00 | 0.00 | 0.29 | 0.02 | 0.00 | 19.44 | 2.00 | 0.00 | 0.28 | 0.02 | 0.00 |
| 19.46 | 2.00 | 0.00 | 0.27 | 0.02 | 0.00 | 19.48 | 2.00 | 0.00 | 0.26 | 0.02 | 0.00 |
| 19.50 | 2.00 | 0.00 | 0.25 | 0.02 | 0.00 | 19.52 | 2.00 | 0.00 | 0.24 | 0.02 | 0.00 |
| 19.54 | 2.00 | 0.00 | 0.23 | 0.02 | 0.00 | 19.56 | 2.00 | 0.00 | 0.22 | 0.02 | 0.00 |
| 19.58 | 2.00 | 0.00 | 0.21 | 0.02 | 0.00 | 19.60 | 2.00 | 0.00 | 0.20 | 0.02 | 0.00 |
| 19.62 | 2.00 | 0.00 | 0.19 | 0.02 | 0.00 | 19.64 | 2.00 | 0.00 | 0.18 | 0.02 | 0.00 |
| 19.66 | 2.00 | 0.00 | 0.17 | 0.02 | 0.00 | 19.68 | 1.00 | 0.00 | 0.16 | 0.02 | 0.00 |
| 19.70 | 1.07 | 0.00 | 0.15 | 0.02 | 0.00 | 19.72 | 1.19 | 0.00 | 0.14 | 0.02 | 0.00 |
| 19.74 | 1.30 | 0.00 | 0.13 | 0.02 | 0.00 | 19.76 | 1.37 | 0.00 | 0.12 | 0.02 | 0.00 |
| 19.78 | 2.00 | 0.00 | 0.11 | 0.02 | 0.00 | 19.80 | 2.00 | 0.00 | 0.10 | 0.02 | 0.00 |
| 19.82 | 2.00 | 0.00 | 0.09 | 0.02 | 0.00 | 19.84 | 2.00 | 0.00 | 0.08 | 0.02 | 0.00 |
| 19.86 | 2.00 | 0.00 | 0.07 | 0.02 | 0.00 | 19.88 | 2.00 | 0.00 | 0.06 | 0.02 | 0.00 |
| 19.90 | 2.00 | 0.00 | 0.05 | 0.02 | 0.00 | | | | | | |

Overall liquefaction potential: 2.05

LPI = 0.00 - Liquefaction risk very low
 LPI between 0.00 and 5.00 - Liquefaction risk low
 LPI between 5.00 and 15.00 - Liquefaction risk high
 LPI > 15.00 - Liquefaction risk very high

Abbreviations

FS: Calculated factor of safety for test point
 F_L: 1 - FS
 w_z: Function value of the extend of soil liquefaction according to depth
 d_z: Layer thickness (m)
 LPI: Liquefaction potential index value for test point