APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor

Fix: 198 **E:** 249136 **N:** 6057821 **Depth:** 26m

Fix: 205 **E:** 249136 **N:** 6057820 **Depth:** 26m

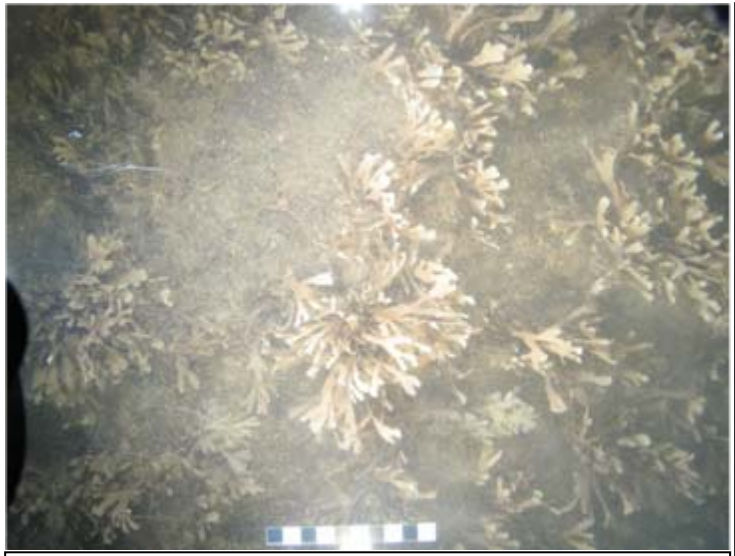
Station: TCC_67
Sediment Description:
Fix198: Sand with cobbles

Fix205: Sandy boulders

Fauna Description:
Fix198: Echinodermata - Ophiuroidea, Other - Bryozoa *Flustra foliacea*, Porifera

Fix205: Annelida (Polychaeta) - *Spirobranchus* sp., Echinodermata - Ophiuroidea, Other - Bryozoa - *Flustra foliacea*

Fix: 207 **E:** 249136 **N:** 6057822 **Depth:** 26m



Fix: 209 **E:** 249138 **N:** 6057819 **Depth:** 26m

Station: TCC_67
Sediment Description:
Fix207: Sandy boulders

Fix209: Gravelly sand

Fauna Description:
Fix207: Annelida (Polychaeta) - *Spirobranchus* sp., Echinodermata - *Asterias rubens*, Other - Bryozoa - *Flustra foliacea*, Cnidaria - *Alcyonium* sp.

Fix209: Echinodermata - Ophiuroidea, Other - Bryozoa - *Flustra foliacea*

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor

Fix: 227 **E:** 251092 **N:** 6058332 **Depth:** 35m

Fix: 231 **E:** 251089 **N:** 6058338 **Depth:** 35m

Station: TCC_68
Sediment Description:
Fix227: Silty boulders

Fix231: Silty boulders

Fauna Description:
Fix227: Annelida (Polychaeta) - *Spirobranchus* sp., Arthropoda (Crustacea) - Galatheidae, Echinodermata - Ophiuroidea, Other - Bryozoa - *Flustra foliacea*, Cnidaria - *Alcyonium* sp., Urchordata - Ascideacea

Fix231: Annelida (Polychaeta) - *Spirobranchus* sp., Arthropoda (Crustacea) - Galatheidae, Echinodermata - Ophiuroidea, *Ophiothrix fragilis*, Other - Cnidaria - *Alcyonium* sp., Hydrozoa

Fix: 235 **E:** 251092 **N:** 6058338 **Depth:** 35m

Fix: 26 **E:** 251050 **N:** 6058371 **Depth:** 35m

Station: TCC_68
Sediment Description:
Fix235: Silty boulders

Grab: Boulder

Fauna Description:
Fix235: Annelida (Polychaeta) - *Spirobranchus* sp., Echinodermata - *Asterias rubens*, Ophiuroidea, Other - Bryozoa - *Flustra foliacea,* Cnidaria - *Alcyonium* sp., Hydrozoa

Grab: Annelida (Polychaeta), Echinodermata - Ophiuroidea, Other - Cnidaria - *Alcyonium* sp., Hydrozoa

* No acceptable grab sample due to coarse seabed

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor

Fix: 213 **E:** 251082 **N:** 6058035 **Depth:** 31m

Fix: 215 **E:** 251083 **N:** 6058034 **Depth:** 31m

Station: TCC_69
Sediment Description:
Fix213: Silty gravelly bedrock

Fix215: Silty gravelly bedrock

Fauna Description:
Fix213: Echinodermata - Ophiuroidea, *Ophiothrix fragilis*, Other - Cnidaria - *Alcyonium* sp.

Fix215: Annelida (Polychaeta) - *Spirobranchus* sp., Echinodermata - Ophiuroidea, Other - Bryozoa - *Flustra foliacea*, Cnidaria - *Alcyonium* sp.

Fix: 219 **E:** 251085 **N:** 6058037 **Depth:** 31m

Fix: 222 **E:** 251087 **N:** 6058034 **Depth:** 31m

Station: TCC_69
Sediment Description:
Fix219: Silty gravelly bedrock

Fix222: Silty gravelly bedrock

Fauna Description:
Fix219: Annelida (Polycheata) - *Spirobranchus* sp., Echinodermata - Ophiuroidea, *Ophiothrix fragilis* Other - Cnidaria - *Alcyonium* sp.

Fix222: Annelida (Polychaeta) - *Spirobranchus* sp., Echinodermata - Ophiuroidea, *Ophiothrix fragilis*, *Asterias rubens,* Other - Cnidaria - *Alcyonium* sp.

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor

Fix: 239 **E:** 252869 **N:** 6059137 **Depth:** 38m

Fix: 241 **E:** 252869 **N:** 6059139 **Depth:** 38m

Station: TCC_70
Sediment Description:
Fix239: Silty gravelly bedrock

Fix241: Silty gravelly bedrock

Fauna Description:
Fix239: Annelida (Polychaeta) - *Spirobranchus* sp., Echinodermata - *Asterias rubens*, Ophiuroidea, *Ophiothrix fragilis*, Other - Cnidaria - *Alcyonium* sp.

Fix241: Annelida (Polychaeta) - *Spirobranchus* sp., Echinodermata - Ophiuroidea, Other - Bryozoa - *Flustra foliacea*

Fix: 245 **E:** 252871 **N:** 6059140 **Depth:** 38m

Fix: 251 **E:** 252875 **N:** 6059143 **Depth:** 38m

Station: TCC_70
Sediment Description:
Fix245: Silty gravel with cobbles

Fix251: Silty gravel with cobbles

Fauna Description:
Fix245: Arthropoda (Crustacea) – Caridea, Echinodermata - Ophiuroidea

Fix251: Annelida (Polychaeta) - *Spirobranchus* sp., Echinodermata - Ophiuroidea, Other - Cnidaria - Hydrozoa

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor

Fix: 254 **E:** 255139 **N:** 6059121 **Depth:** 46m

Fix: 256 **E:** 255140 **N:** 6059120 **Depth:** 46m

Station: TCC_71
Sediment Description:
Fix254: Gravelly sand

Fix256: Silty gravel with cobbles

Fauna Description:
Fix254: No visible fauna

Fix256: Annelida (Polychaeta) - *Spirobranchus* sp., Arthropoda (Crustacea) - Caridea, Echinodermata - Ophuiroidea, *Ophiothrix fragilis*, Other - Bryozoa - *Flustra foliacea*, Cnidaria - *Alcyonium* sp.

Fix: 31 **E:** 255096 **N:** 6059095 **Depth:** 46m

Fix: 31 **E:** 255096 **N:** 6059095 **Retention:** MF

Station: TCC_71
Sediment Description:
Grab: Mixed sediment

Sieve: Shell, shell fragments and pebbles

Fauna Description:
Grab: No visible fauna

Sieve: No visible fauna

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor

Fix: 267 **E:** 258225 **N:** 6060042 **Depth:** 46m

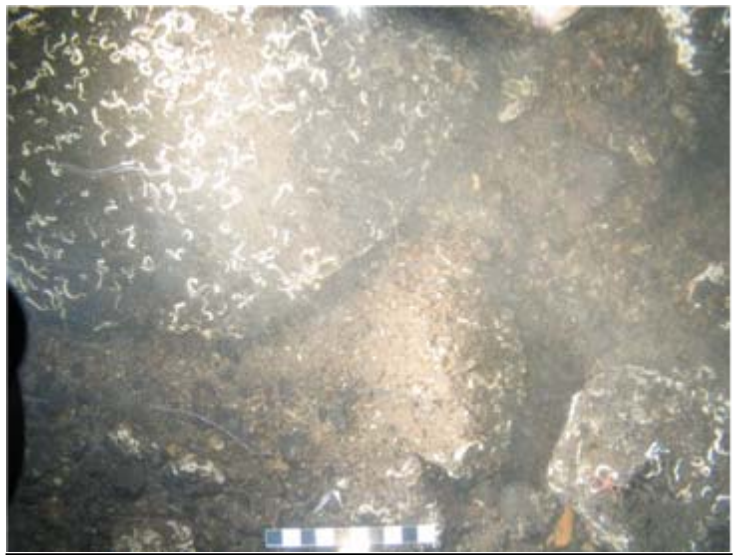
Fix: 273 **E:** 258232 **N:** 6060050 **Depth:** 46m

Station: TCC_72
Sediment Description:
Fix267: Sandy gravelly bedrock

Fix273: Sandy gravel with cobbles

Fauna Description:
Fix267: Annelida (Polychaeta) - *Spirobranchus* sp., Arthropda (Crustacea) - Caridea, Galatheidae, Echinodermata - Ophiuroidea, *Echinus esculentus*, Other - Bryozoa - *Flustra foliacea*, Cnidaria - Sertulariidae, Hydrozoa

Fix273: Annelida (Polychaeta) - *Spirobranchus* sp., Arthropoda (Crustacea) - Paguridae, Mollusca – Bivalvia, Echindermata - Ophiuroidea



Fix: 275 **E:** 258235 **N:** 6060049 **Depth:** 46m

Fix: 279 **E:** 258234 **N:** 6060052 **Depth:** 46m

Station: TCC_72
Sediment Description:
Fix275: Silty boulders

Fix279: Sandy gravel with cobbles

Fauna Description:
Fix275: Annelida (Polychaeta) - *Spirobranchus* sp., Echinodermata - Ophiuroidea, *Ophiothrix fragilis*, Asteroidea, Other - Cnidaria - *Alcyonium* sp., Hydrozoa, Sertulariidae

Fix279: Annelida (Polychaeta) - *Spirobranchus* sp., Arthropoda (Crustacea) - Caridea, Echinodermata - *Ophiocomina nigra*, Ophiuroidea, Other - Cnidaria - *Thuiaria thuja*

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor

Fix: 283 **E:** 260443 **N:** 6060408 **Depth:** 48m

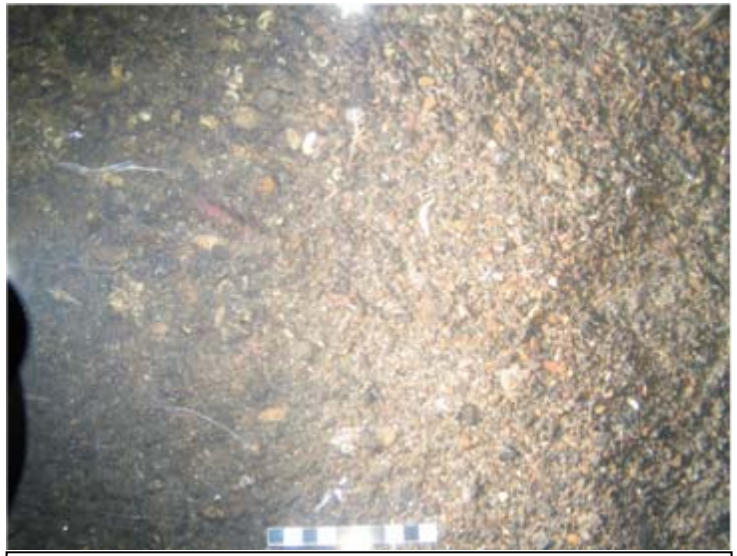
Fix: 286 **E:** 260440 **N:** 6060408 **Depth:** 48m

Station: TCC_73
Sediment Description:
Fix283: Silty gravel

Fix286: Silty gravel

Fauna Description:
Fix283: Annelida (Polychaeta) - *Spirobranchus* sp., Arthropoda (Crustacea) - Caridea, Echinodermata - Ophiuroidea

Fix286: Annelida (Polychaeta) - *Spirobranchus* sp., Arthropoda (Crustacea) - *Ebalia* sp., Echinodermata – Ophiuroidea, Other - Cnidaria - Hydrozoa



Fix: 289 **E:** 260443 **N:** 6060411 **Depth:** 48m

Fix: 295 **E:** 260444 **N:** 6060413 **Depth:** 48m

Station: TCC_73
Sediment Description:
Fix289: Silty gravel

Fix295: Silty gravel

Fauna Description:
Fix289: Annelida (Polychaeta) - *Spirobranchus* sp., Arthropoda (Crustacea) - Caridea, Paguridae, Echinodermata - Ophiuroidea, Other - Cnidaria - Hydrozoa, *Thuiaria thuja*

Fix295: Annelida (Polychaeta) - *Spirobranchus* sp., Echinodermata - Ophuiroidea, Cnidaria - *Alcyonium* sp., Hydrozoa, Urchodata - Ascidiacea

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor

Fix: 298 **E:** 264251 **N:** 6059141 **Depth:** 51m

Fix: 300 **E:** 264249 **N:** 6059142 **Depth:** 51m

Station: TCC_74
Sediment Description:
Fix298: Silty gravel with cobbles

Fix300: Silty gravelly bedrock

Fauna Description:
Fix298: Annelida (Polychaeta) - *Spirobranchus* sp., Echinodermata - Ophiuroidea, Other - Cnidaria - Hydrozoa

Fix300: Annelida (Polychaeta) - *Spirobranchus* sp., Echinodermata - *Ophiothrix fragilis*, Ophiuroidea, Other - Cnidaria - Hydrozoa, *Thuiaria thuja*, Sertulariidae

Fix: 303 **E:** 264251 **N:** 6059143 **Depth:** 51m

Fix: 307 **E:** 264252 **N:** 6059142 **Depth:** 51m

Station: TCC_74
Sediment Description:
Fix303: Silty gravel with cobbles

Fix307: Gravelly sand

Fauna Description:
Fix303: Annelida (Polychaeta) - *Spirobranchus* sp., Echinodermata - *Ophiothrix fragilis*, Ophiuroidea, Cnidaria - Hydrozoa

Fix307: Echinodermata - Ophiuroidea

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor

Fix: 379 **E:** 264964 **N:** 6059828 **Depth:** 54

Fix: 383 **E:** 264964 **N:** 6059830 **Depth:** 54

Station: TCC_75
Sediment Description:
Fix379: Sand with shell

Fix383: Sand with shell

Fauna Description:
Fix379: Echinodermata - Ophiuroidea

Fix383: No visible fauna

Fix: 387 **E:** 264966 **N:** 6059832 **Depth:** 54

Fix: 17 **E:** 264943 **N:** 6059920 **Depth:** 54

Station: TCC_75*
Sediment Description:
Fix387: Fine sand

Grab*: Mixed sediment

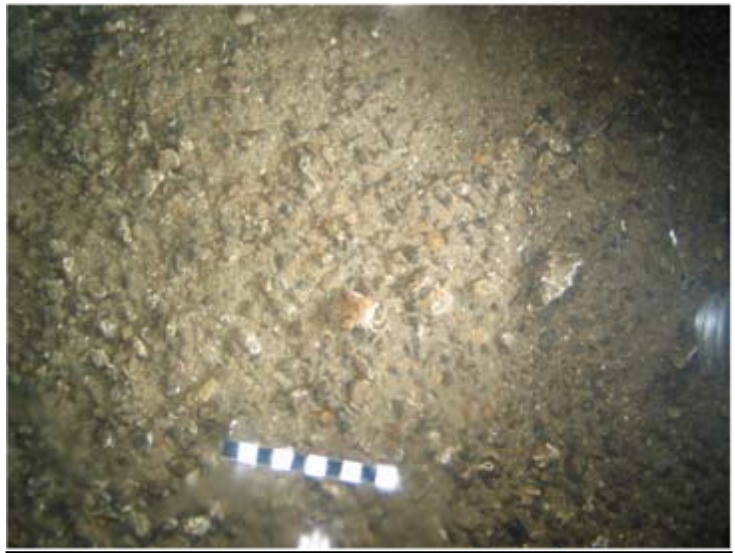
Fauna Description:
Fix387: Annelida (Polychaeta) - *Spirobranchus* sp.

Grab*: No visible fauna

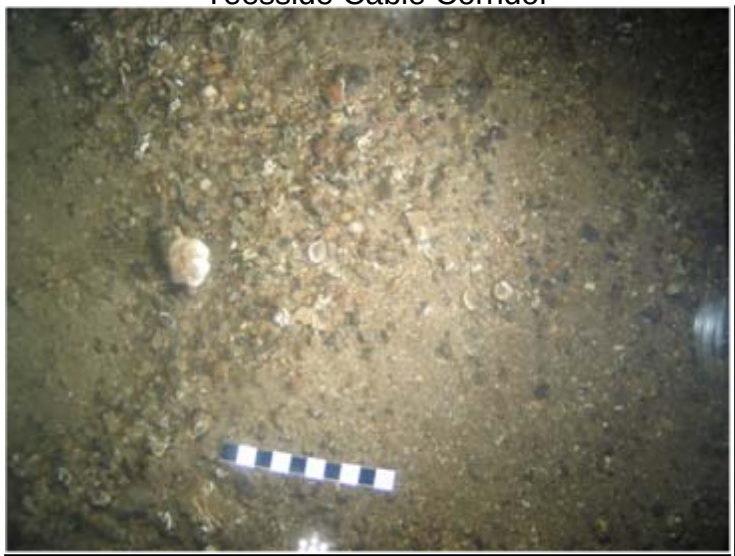
* No sieve photo taken at the time of sampling

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor



Fix: 393 **E:** 267225 **N:** 6059554 **Depth:** 55m



Fix: 398 **E:** 267225 **N:** 6059555 **Depth:** 55m

Station: TCC_76
Sediment Description:
Fix393: Sandy gravel

Fix398: Sandy gravel

Fauna Description:
Fix393: Annelida (Polychaeta) - *Spirobranchus* sp., Arthropoda (Crustacea) - Paguridae

Fix398: Annelida (Polychaeta) - *Spirobranchus* sp., Echinodermata - Ophiuroidea, Other - Cnidaria - *Alcyonium* sp.

Fix: 15 **E:** 267206 **N:** 6059509 **Depth:** 54m

Fix: 15 **E:** 267206 **N:** 6059509 **Retention:** MF

Station: TCC_76
Sediment Description:
Grab: Mixed sediment

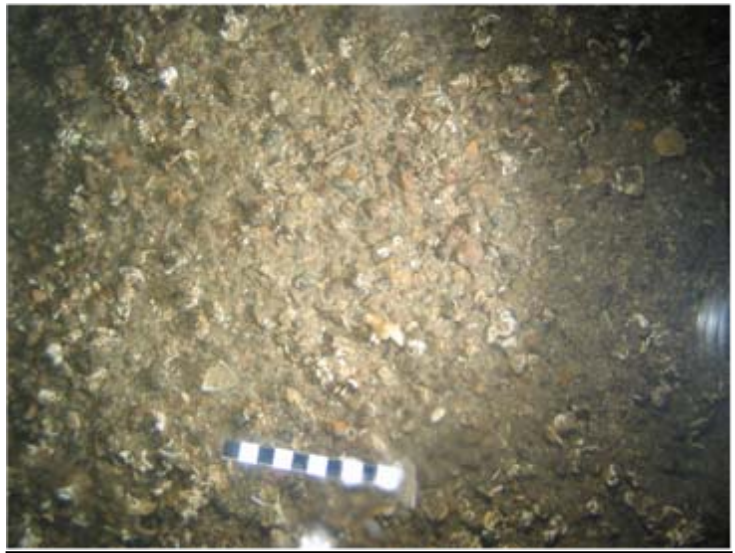
Sieve: Pebbles, gravel, shell and shell fragments

Fauna Description:
Grab: Echinodermata - Echinoidea

Sieve: Annelida (Polychaeta), Echinodermata - Ophiuroidea, Echinoidea

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor



Fix: 404 **E:** 268953 **N:** 6060137 **Depth:** 54m

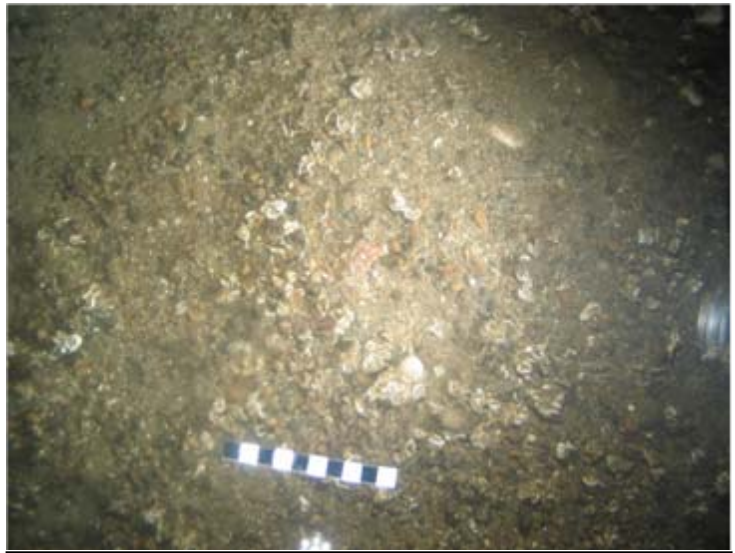
Fix: 407 **E:** 268956 **N:** 6060133 **Depth:** 54m

Station: TCC_77
Sediment Description:
Fix404: Sandy gravel

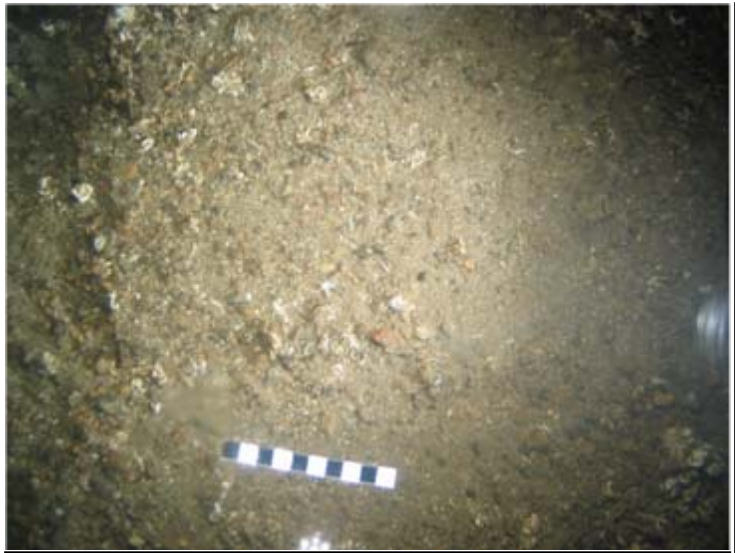
Fix407: Sandy gravel

Fauna Description:
Fix404: Annelida (Polychaeta) - Polychaete tubes, *Spirobranchus* sp., Echinodermata - Ophiuroidea, Other - Cnidaria - Hydrozoa

Fix407: Annelida (Polychaeta) - Polychaete tubes, *Spirobranchus* sp., Arthropoda (Crustacea) - Paguridae, Echinodermata - *Asterias rubens*, Other - Cnidaria - Hydrozoa



Fix: 411 **E:** 268954 **N:** 6060138 **Depth:** 54m



Fix: 412 **E:** 268956 **N:** 6060139 **Depth:** 54m

Station: TCC_77
Sediment Description:
Fix411: Sandy gravel

Fix412: Sandy gravel

Fauna Description:
Fix411: Annelida (Polychaeta) - Polychaete tubes, *Spirobranchus* sp., Arthropoda (Crustacea) - Galatheidae, Echinodermata - Ophiuroidea, Echinoidea, Other - Cnidaria - *Alcyonium* sp.

Fix412: Annelida (Polychaeta) - *Spirobranchus* sp., Echinodermata - *Asterias rubens*, Ophiuroidea

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor

Fix: 376 **E:** 270622 **N:** 6063256 **Depth:** 57m

Fix: 385 **E:** 270622 **N:** 6063256 **Depth:** 57m

Station: TCC_78
Sediment Description:
Fix376: Sand with ripples and shell fragments

Fix385: Sand with ripples and shell fragments

Fauna Description:
Fix376: Other - Cnidaria - *Alcyonium* sp.

Fix385: No visible fauna

Fix: 35 **E:** 270639 **N:** 6063227 **Depth:** 57m

Fix: 35 **E:** 270639 **N:** 6063227 **Retention:** MF

Station: TCC_78
Sediment Description:
Grab: Fine to medium sand with many shell fragments, some gravel and pebbles

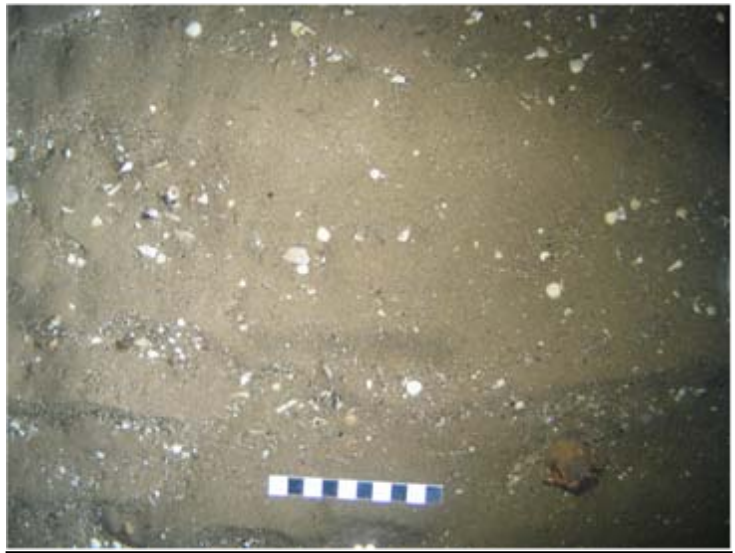
Sieve: Shell fragments and gravel

Fauna Description:
Grab: No visible fauna

Sieve: Annelida (Polychaeta) - Polychaeta, *Spirobranchus* sp., Mollusca - Scaphapoda

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor



Fix: 392 **E:** 274153 **N:** 6063035 **Depth:** 58m

Fix: 401 **E:** 274153 **N:** 6063035 **Depth:** 58m

Station: TCC_79
Sediment Description:
Fix392: Sand with ripples, fines and shell fragments

Fix401: Sand with ripples, fines and shell fragments

Fauna Description:
Fix392: Arthropoda (Crustacea) - Paguridae

Fix401: No visible fauna

Fix: 32 **E:** 274160 **N:** 6063016 **Depth:** 58m

Fix: 32 **E:** 274160 **N:** 6063016 **Retention:** MF

Station: TCC_79
Sediment Description:
Grab: Fine to medium sand with shell fragments

Sieve: Shell and shell fragments

Fauna Description:
Grab: No visible fauna

Sieve: Annelida (Polychaeta), Mollusca – Bivalvia, Echinodermata - *Echinocardium* sp.

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor

Fix: 408 **E:** 275075 **N:** 6063055 **Depth:** 58m

Fix: 416 **E:** 275075 **N:** 6063055 **Depth:** 58m

Station: TCC_80
Sediment Description:
Fix408: Sand with shell, shell fragments and fines

Fix416: Sand with shell, shell fragments and fines

Fauna Description:
Fix408: Mollusca – Scaphopoda, Other - Cnidaria - Actiniaria, *Alcyonium* sp.

Fix416: Annelida (Polychaeta) - Polychaete tubes, *Spirobranchus* sp., Other - Cnidaria - *Alcyonium* sp., *Tubularia* sp., Hydrozoa

Fix: 30 **E:** 275086 **N:** 6063044 **Depth:** 58m

Fix: 30 **E:** 275086 **N:** 6063044 **Retention:** MF

Station: TCC_80
Sediment Description:
Grab: Fine to medium sand with numerous shell fragments

Sieve: Shell and shell fragments

Fauna Description:
Grab: Annelida (Polychaeta) - Polychaete tubes

Sieve: Annelida (Polychaeta) - Polychaeta, Polychaete tubes, *Spirobranchus* sp., Mollusca - *Scaphapoda* sp., Echinodermata - Spatangoida

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor

Fix: 421 **E:** 275657 **N:** 6063256 **Depth:** 56m

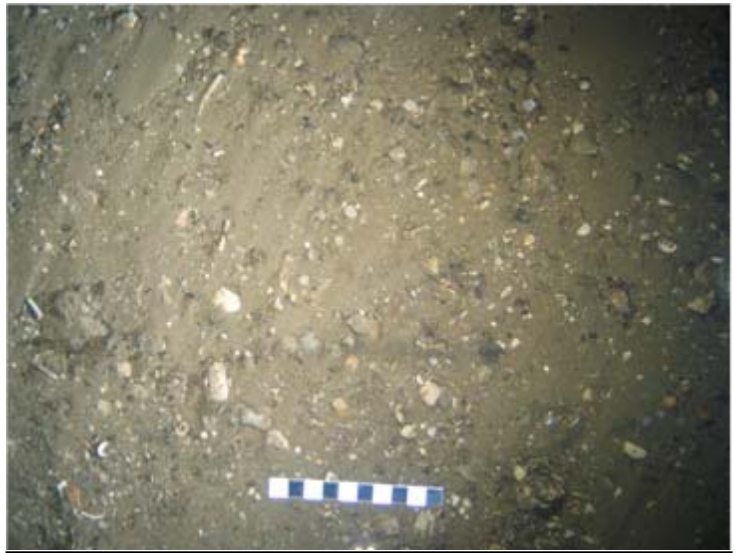
Fix: 431 **E:** 275657 **N:** 6063256 **Depth:** 56m

Station: TCC_81
Sediment Description:
Fix421: Sand with shell, shell fragments and fines

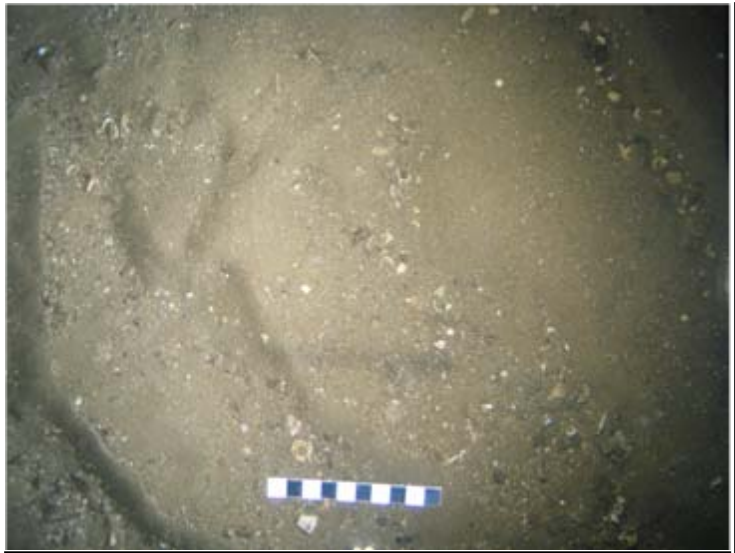
Fix431: Sand with shell, shell fragments and fines

Fauna Description:
Fix421: Annelida (Polychaeta), Arthropoda (Crustacea) - *Caridea* sp., Mollusca, Other - Cnidaria - *Alcyonium* sp., *Tubularia* sp.

Fix431: Annelida (Polychaeta), Other - Cnidaria - *Alcyonium* sp.



Fix: 427 **E:** 275657 **N:** 6063256 **Depth:** 56m



Fix: 435 **E:** 275657 **N:** 6063256 **Depth:** 56m

Station: TCC_81
Sediment Description:
Fix427: Sand with shell, shell fragments and fines

Fix435: Sand with ripples and some shell fragments

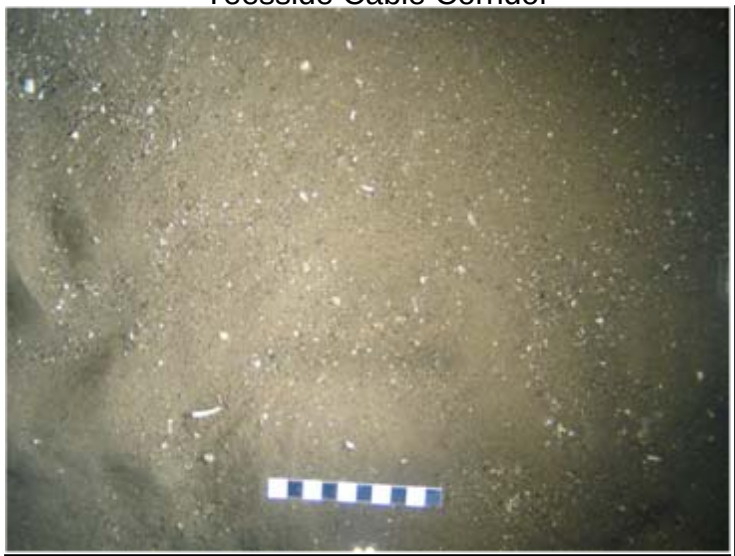
Fauna Description:
Fix427: Mollusca - Scaphopoda

Fix435: No visible fauna

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor

Fix: 465 **E:** 279849 **N:** 6063517 **Depth:** 59m



Fix: 476 **E:** 279849 **N:** 6063517 **Depth:** 59m

Station: TCC_82
Sediment Description:
Fix465: Sand with some shell fragments

Fix476: Sand with ripples and some shell fragments

Fauna Description:
Fix465: Annileda (Polychaeta) - Nephtyidae

Fix476: No visible fauna

Fix: 37 **E:** 279838 **N:** 6063504 **Depth:** 59m

Fix: 37 **E:** 279838 **N:** 6063504 **Retention:** MF

Station: TCC_82
Sediment Description:
Grab: Fine to medium sand with shell fragments

Sieve: Shell, shell fragments and some gravel

Fauna Description:
Grab: No visible fauna

Sieve: Annelida (Polychaeta) - Polychaete tubes, Mollusca - Bivalvia, Solenidae, Scaphapoda, Echinodermata - Ophiuroidea

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor

Fix: 444 **E:** 280571 **N:** 6063717 **Depth:** 56m

Fix: 449 **E:** 280571 **N:** 6063717 **Depth:** 56m

Station: TCC_83
Sediment Description:
Fix444: Sand with cobbles

Fix449: Sand with shell, shell fragments, gravel and cobbles and boulder

Fauna Description:
Fix444: Annelida (Polychaeta) - *Spirobranchus* sp., Echinodermata – Ophiuroidea, Other - Cnidaria - Sertulariidae, *Abietinaria* sp.

Fix449: Annelida (Polychaeta), Echinodermata - *Echinus esculentus*, Other - Cnidaria - Hydrozoa, Sertulariidae, Actiniaria

Fix: 452 **E:** 280571 **N:** 6063717 **Depth:** 56m

Fix: 461 **E:** 280571 **N:** 6063717 **Depth:** 56m

Station: TCC_83
Sediment Description:
Fix452: Sand with ripples with shell fragments overlying cobbles

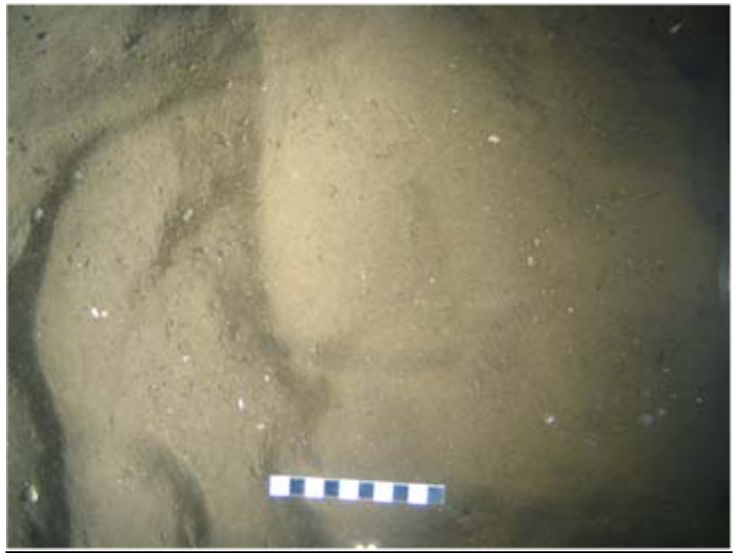
Fix461: Boulders overlying sand

Fauna Description:
Fix452: Annelida (Polychaeta) - Polychaeta tubes

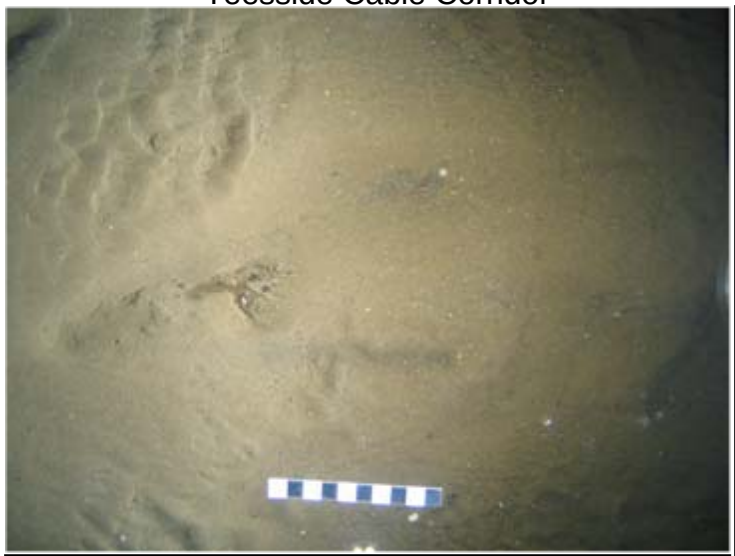
Fix461: Annelida (Polychaeta) - Polychaeta tubes, Other - Cnidaria - Actiniaria, Hydrozoa

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor



Fix: 482 **E:** 284583 **N:** 6065021 **Depth:** 61m



Fix: 487 **E:** 284583 **N:** 6065021 **Depth:** 61m

Station: TCC_84
Sediment Description:
Fix482: Sand with ripples

Fix487: Sand with ripples

Fauna Description:
Fix482: Annelida (Polychaete) - Polychaete tubes

Fix487: Other - Cnidaria - Hydrozoa

Fix: 43 **E:** 284569 **N:** 6065048 **Depth:** 61m

Fix: 43 **E:** 284569 **N:** 6065048 **Retention:** MF

Station: TCC_84
Sediment Description:
Grab: Fine to medium sand with shell fragments

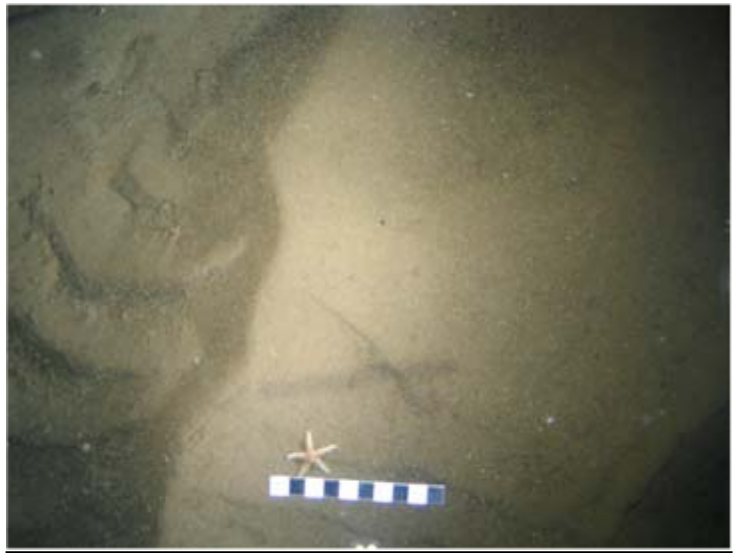
Sieve: Occasional shell fragments

Fauna Description:
Grab: No visible fauna

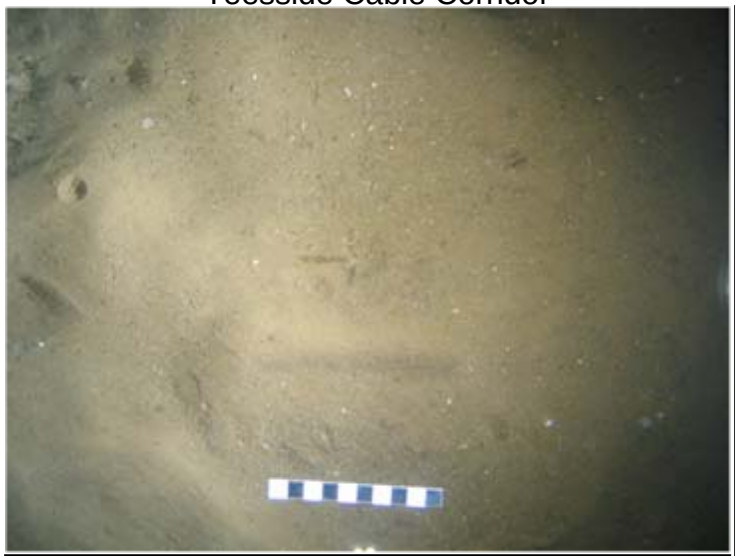
Sieve: Annelida (Polychaeta) - Polychaete tubes, Echinodermata - *Echinocardium* sp.

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor



Fix: 491 **E:** 286188 **N:** 6065242 **Depth:** 66m



Fix: 495 **E:** 286188 **N:** 6065242 **Depth:** 66m

Station: TCC_85
Sediment Description:
Fix491: Sand with ripples

Fix495: Sand with ripples

Fauna Description:
Fix491: Annelida (Polychaeta) - Polychaete tubes, Echinodermata - *Asterias rubens*

Fix495: Annelida (Polychaeta) - Polychaete tubes

Fix: 38 **E:** 286159 **N:** 6065255 **Depth:** 65m

Fix: 38 **E:** 286159 **N:** 6065255 **Retention:** MF

Station: TCC_85
Sediment Description:
Grab: Fine to medium sand with shell fragments

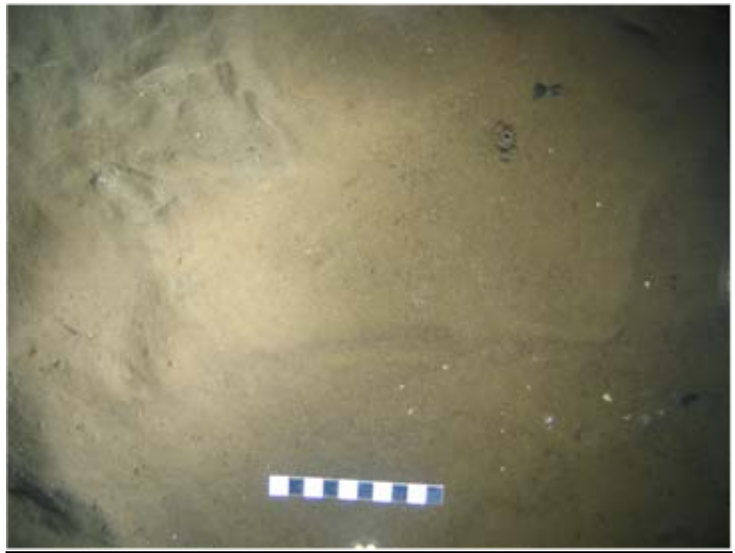
Sieve: Occasional shell fragments

Fauna Description:
Grab: No visible fauna

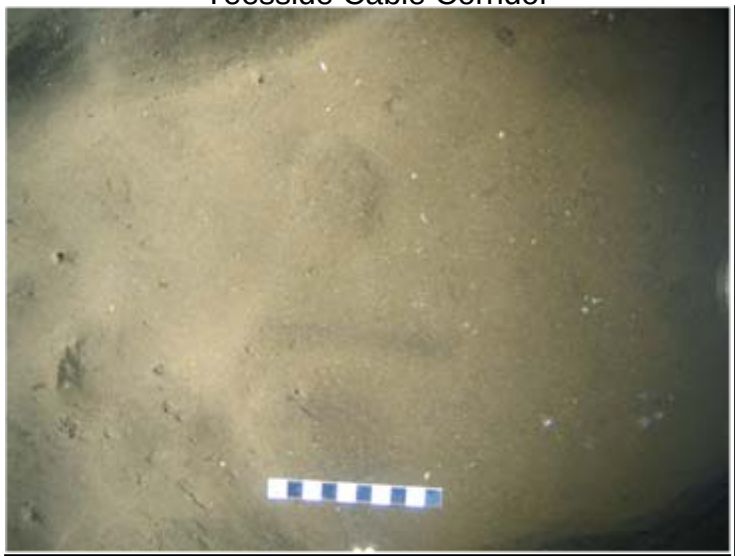
Sieve: Annelida (Polychaeta), Echinodermata - Ophiuroidea

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor



Fix: 501 **E:** 291664 **N:** 6065743 **Depth:** 67m



Fix: 508 **E:** 291664 **N:** 6065743 **Depth:** 67m

Station: TCC_86
Sediment Description:
Fix501: Sand with ripples

Fix508: Sand with ripples

Fauna Description:
Fix501: Annelida (Polychaeta) - Polychaete tubes, Other - Cnideria - *Pennatula phosphorea*

Fix508: No visible fauna

Fix: 45 **E:** 291618 **N:** 6065741 **Depth:** 67m

Fix: 45 **E:** 291618 **N:** 6065741 **Retention:** MF

Station: TCC_86
Sediment Description:
Grab: Fine sand

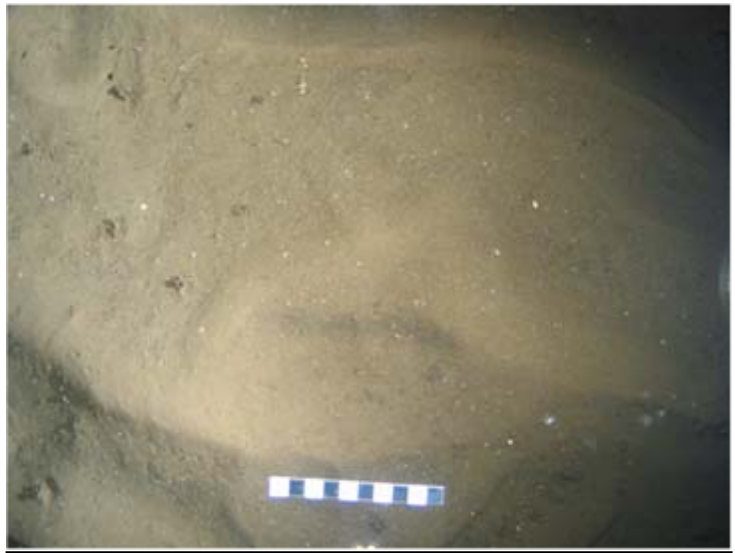
Sieve: Occasional shell fragments

Fauna Description:
Grab: No visible fauna

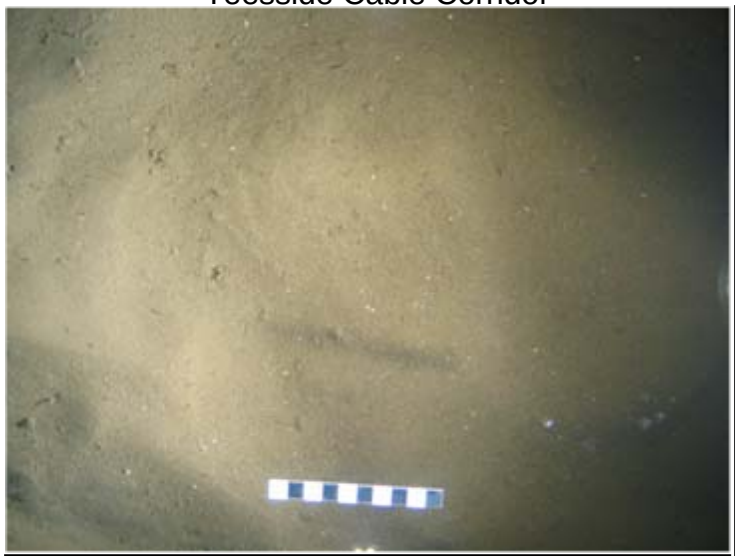
Sieve: Annelida (Polychaeta), Mollusca - Bivalvia, Echinodermata - Ophiuroidea

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor



Fix: 516 **E:** 300631 **N:** 6066887 **Depth:** 63m



Fix: 524 **E:** 300631 **N:** 6066887 **Depth:** 63m

Station: TCC_87
Sediment Description:
Fix516: Sand

Fix524: Sand

Fauna Description:
Fix516: Annelida (Polychaeta) - Polychaete tubes

Fix524: Echinodermata - Ophiuroidea

Fix: 48 **E:** 300600 **N:** 6066907 **Depth:** 62m

Fix: 48 **E:** 300600 **N:** 6066907 **Retention:** MF

Station: TCC_87
Sediment Description:
Grab: Fine to medium sand with some fines

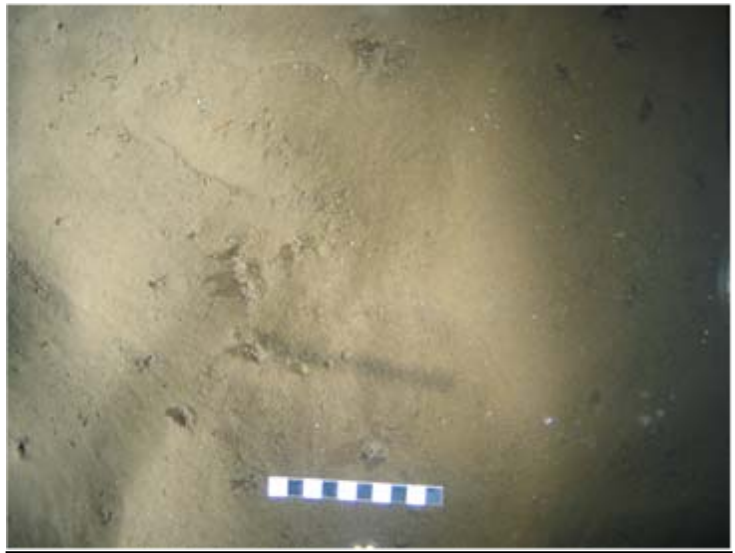
Sieve: Some shell fragments and gravel

Fauna Description:
Grab: No visible fauna

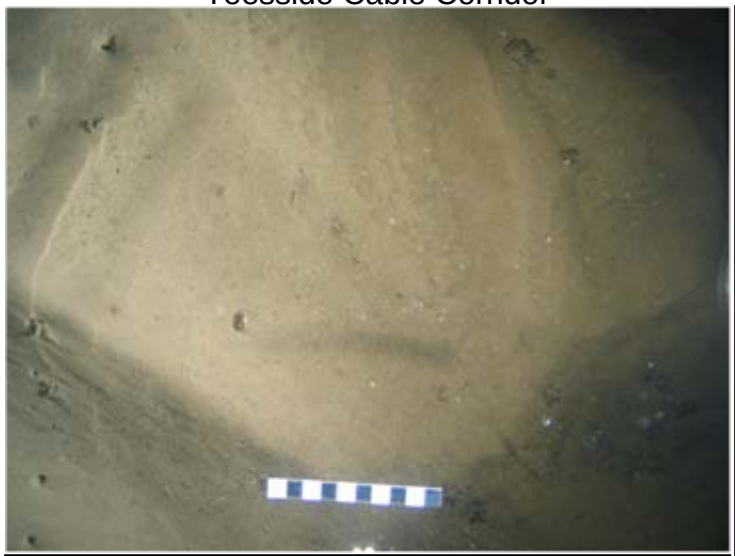
Sieve: Annelida (Polychaeta) - Polychaeta, Polychaete tubes, Mollusca - Bivalvia, Echinodermata - *Echinocardium* sp., Ophiuroidea

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor



Fix: 526 **E:** 304783 **N:** 6066706 **Depth:** 71m



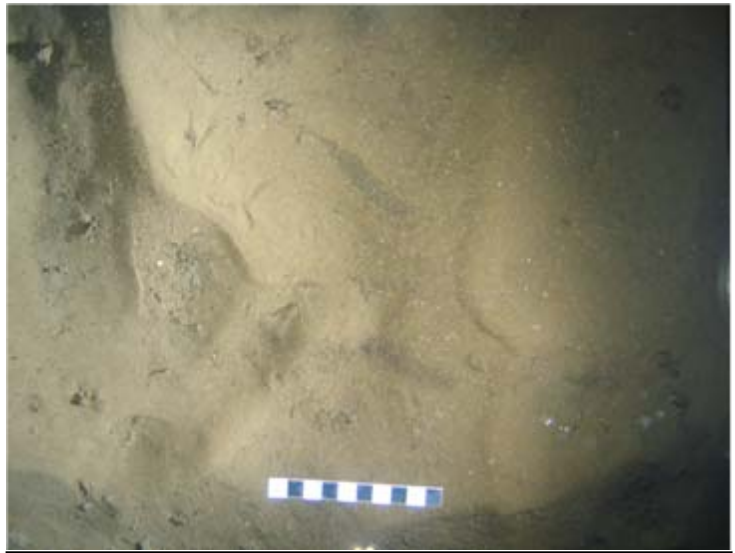
Fix: 535 **E:** 304783 **N:** 6066706 **Depth:** 71m

Station: TCC_88
Sediment Description:
Fix526: Sand

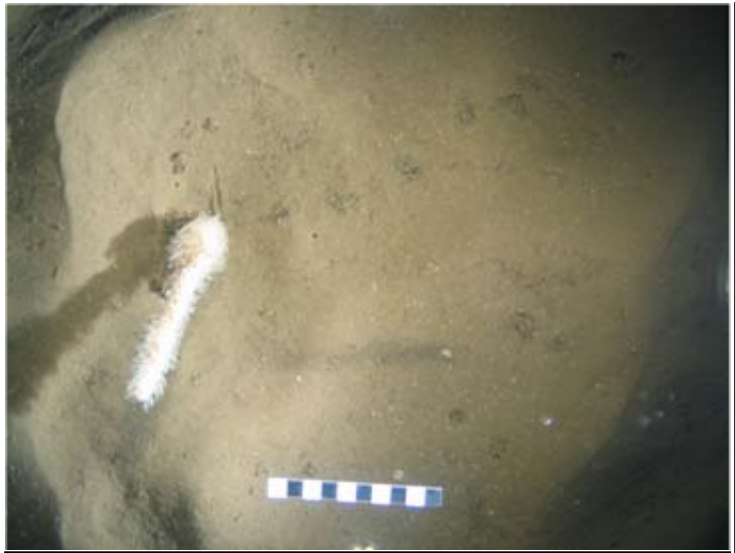
Fix535: Sand, with some bioturbation

Fauna Description:
Fix526: Annelida (Polychaeta) - Polychaete tubes, Other - Foraminifera - *Astrorhiza* sp.

Fix535: Annelida (Polychaeta) - Polychaete tubes, Other - Foraminifera - *Astrorhiza* sp.



Fix: 529 **E:** 304783 **N:** 6066706 **Depth:** 71m



Fix: 532 **E:** 304783 **N:** 6066706 **Depth:** 71m

Station: TCC_88
Sediment Description:
Fix529: Sand

Fix532: Sand

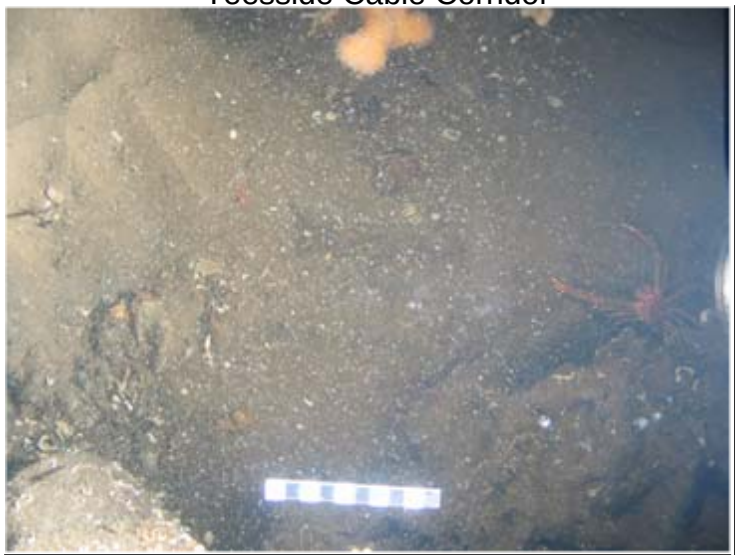
Fauna Description:
Fix529: Annelida (Polychaeta) - Polychaete tubes, Other - Foraminifera - *Astrorhiza* sp.

Fix532: Annelida (Polychaeta) - Polychaete tubes, Other - Cnidaria - *Alcyonium* sp., Foraminifera - *Astrorhiza* sp.

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor

Fix: 541 **E:** 307342 **N:** 6066746 **Depth:** 71m



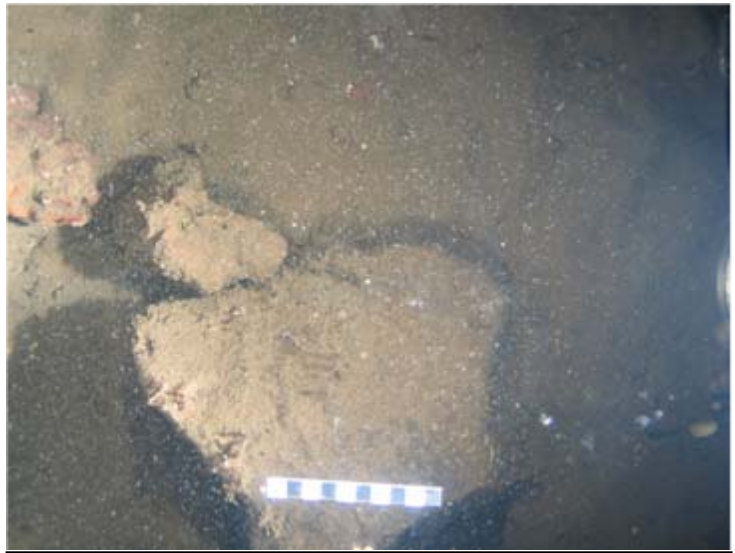
Fix: 555 **E:** 307330 **N:** 6066740 **Depth:** 71m

Station: TCC_89
Sediment Description:
Fix541: Fine to medium sand, shell fragments and some coarse sediment

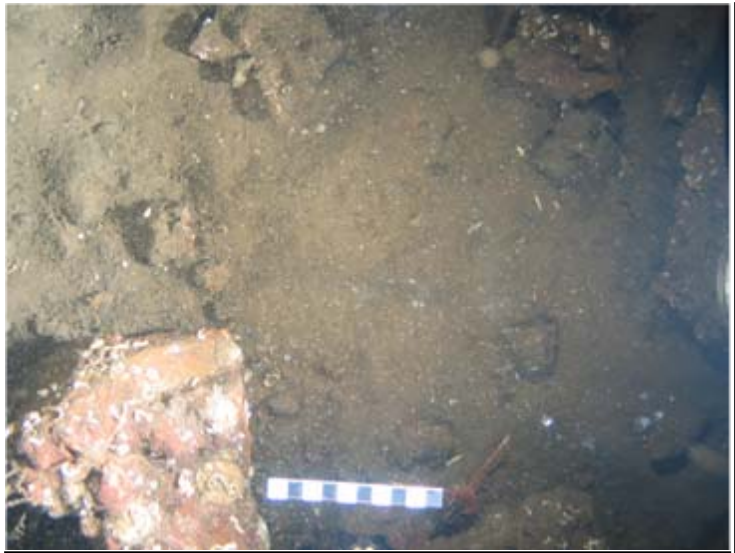
Fix555: Fine to medium sand with sand ripples, shell fragments, patches of coarse sediments and boulders

Fauna Description:
Fix541: Arthropoda (Crustacea) - Caridea, Other - Bryozoa - *Flustra foliacea*, Cnidaria - *Thuiaria thuja*, Sertuarliidae, *Alcyonium* sp.

Fix555: Annelida (Crustaea) - *Spirobranchus* sp., Arthropoda (Crustacea) - Caridea, *Munida* sp., Other - Cnidaria - *Abietinaria* sp., *Alcyonium* sp.



Fix: 565 **E:** 307325 **N:** 6066727 **Depth:** 70m



Fix: 568 **E:** 307327 **N:** 6066727 **Depth:** 71m

Station: TCC_89
Sediment Description:
Fix565: Fine to medium sand with shell fragments and boulders

Fix568: Fine to medium sand with shell fragments, patches of coarse sediment and boulders

Fauna Description:
Fix565: Annelida (Polychaeta) - *Spirobranchus* sp., Arthropoda (Crustacea) - *Munida* sp., Echinodermata - *Ophiothrix* sp., Other - Cnidaria - Sertulariidae

Fix568: Annelida (Polychaeta) - *Spirobranchus* sp., Arthropoda (Crustacea) - *Munida* sp., Echinodermata - *Ophiothrix* sp., Other - Cnidaria - Sertulariidae, *Thuiaria thuja*

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor

Fix: 571 **E:** 309214 **N:** 6066859 **Depth:** 73m

Fix: 576 **E:** 309203 **N:** 6066841 **Depth:** 73m

Station: TCC_90
Sediment Description:
Fix571: Fine to medium sand with sand ripples

Fix576: Fine to medium sand with sand ripples

Fauna Description:
Fix571: Annelida (Polychaeta) - Polychaeta tubes, Other - Foraminifera - *Astrorhiza* sp.

Fix576: Annelida (Polychaeta) - Polychaeta tubes, Other - Foraminifera - *Astrorhiza* sp.

Fix: 53 **E:** 309217 **N:** 6066894 **Depth:** 73m

Fix: 53 **E:** 309217 **N:** 6066894 **Retention:** MF

Station: TCC_90
Sediment Description:
Grab: Fine to medium sand

Sieve: Shell fragments

Fauna Description:
Grab: No visible fauna

Sieve: Annelida (Polychaeta), Other – Foraminifera - *Astrorhiza* sp.

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor

Fix: 581 **E:** 309726 **N:** 6067801 **Depth:** 62m

Fix: 586 **E:** 309758 **N:** 6067746 **Depth:** 62m

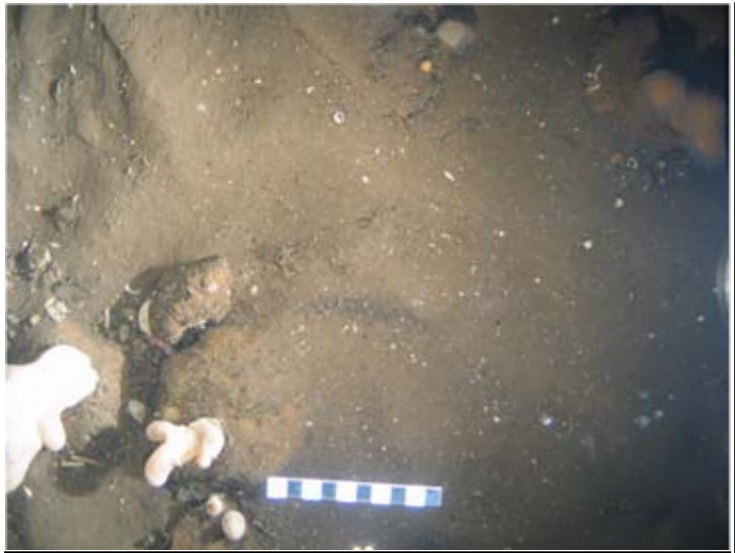
Station: TCC_91
Sediment Description:
Fix581: Fine to medium sand with sand ripples, shell fragments and underlying rock

Fix586: Fine to medium sand with sand ripples, shell fragments, boulder and cobble

Fauna Description:
Fix581: Annelida (Polychatea) - Polychaeta, Polychaete tubes, Mollusca - *Aequipecten opercularis*, Other - Bryozoa - *Flustra foliacea*, Cnidaria - *Alcyonium* sp., Foraminifera - *Astrorhiza* sp.

Fix586: Annelida (Polychaeta) - Polychaeta, *Spirobranchus* sp., Arthropoda (Crustacea) - Caridea, Other - Bryozoa - *Flustra foliacea*, Cnidaria - *Alcyonium* sp.

Fix: 590 **E:** 309742 **N:** 6067780 **Depth:** 62m



Fix: 594 **E:** 309736 **N:** 6067778 **Depth:** 62m

Station: TCC_91
Sediment Description:
Fix590: Fine to coarse sand with shell fragments, gravel, cobbles and boulders

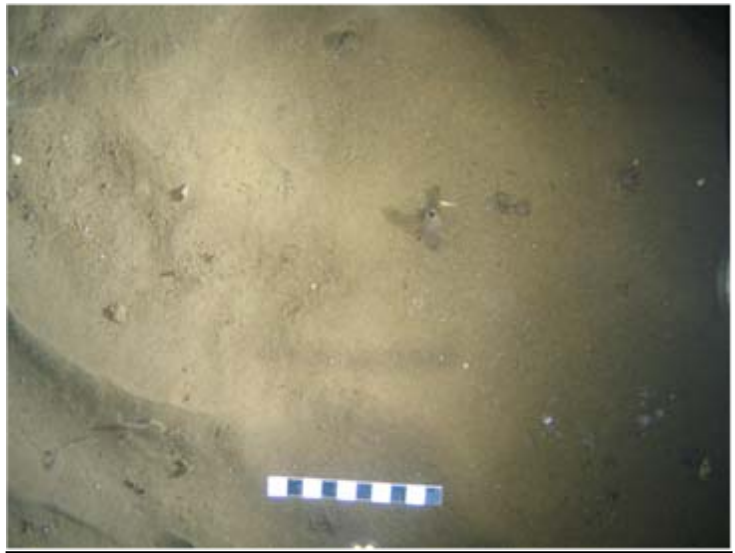
Fix594: Fine to medium sand with sand ripples, shell fragments and cobbles

Fauna Description:
Fix590: Annelida (Polychaeta) - Polychaeta, *Spirobranchus* sp., Arthropoda (Crustacea) - Caridea, Other - Bryozoa, Cnidaria - Hydrozoa, *Alcyonium* sp.

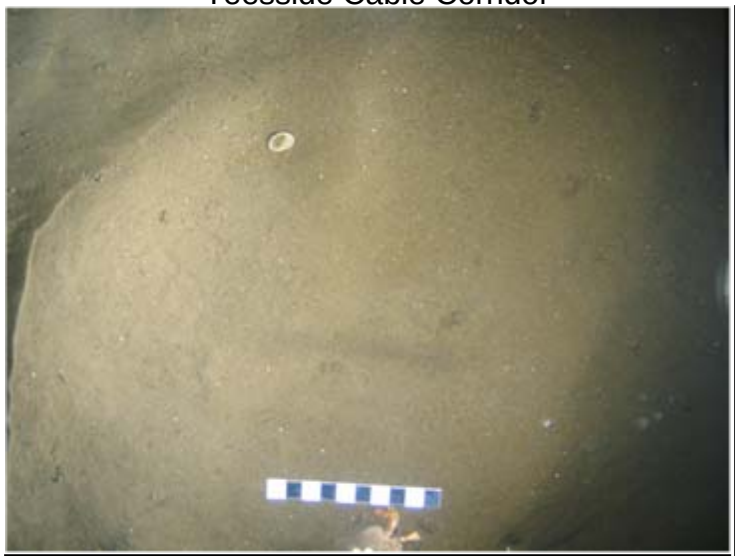
Fix594: Annelida (Polychaeta) - Polychaeta, *Spirobranchus* sp., Polychaete tubes, Arthropoda (Crustacea) - Caridea, Other - Cnidaria - *Alcyonium* sp.

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor



Fix: 596 **E:** 310410 **N:** 6067815 **Depth:** 66



Fix: 599 **E:** 310400 **N:** 6067832 **Depth:** 66

Station: TCC_92
Sediment Description:
Fix596: Fine to medium sand with sand ripples

Fix599: Fine to medium sand with sand ripples

Fauna Description:
Fix596: Annelida (Polychaeta) - Polychaeta, Polychaete tubes, Other - Cnidaria - *Virgularia mirabilis*, Foraminifera - *Astrorhiza* sp.

Fix599: Annelida (Polychaeta) - Polychaeta tubes, Arthropoda (Crustacea) - Paguridae

Fix: 52 **E:** 310387 **N:** 6067824 **Depth:** 66

Fix: 52 **E:** 310387 **N:** 6067824 **Retention:** MF

Station: TCC_92
Sediment Description:
Grab: Fine to medium sand

Sieve: Shell fragments

Fauna Description:
Grab: No visible fauna

Sieve: Annelida (Polychaeta), Mollusca - Scaphopoda

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor

Fix: 607 **E:** 311176 **N:** 6067959 **Depth:** 67m

Fix: 615 **E:** 311145 **N:** 6067959 **Depth:** 67m

Station: TCC_93
Sediment Description:
Fix607: Fine to medium sand with sand ripples

Fix615: Fine to medium sand with sand ripples

Fauna Description:
Fix607: Annelida (Polychaeta) - Polychaeta, Polychaete tubes

Fix615: Annelida (Polychaeta) - Polychaeta tubes, Other - Cnidaria - *Alcyonium* sp.

Fix: 50 **E:** 311175 **N:** 6067951 **Depth:** 67m

Fix: 50 **E:** 311175 **N:** 6067951 **Retention:** MF

Station: TCC_93
Sediment Description:
Grab: Fine to medium sand

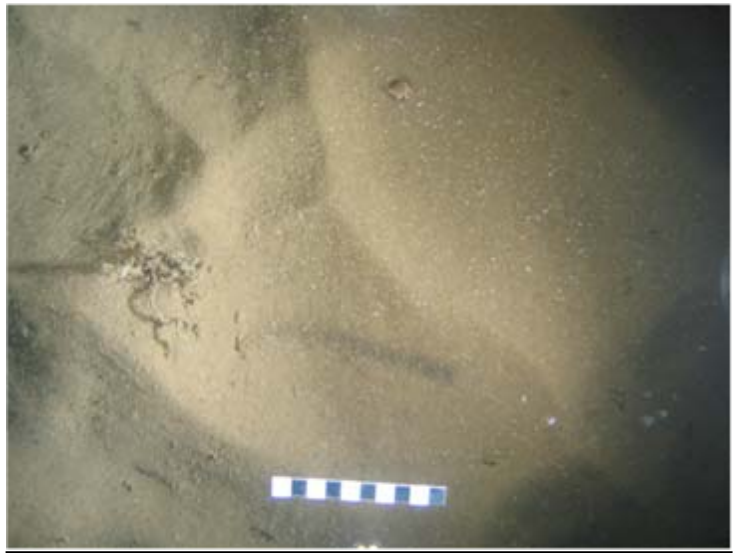
Sieve: Shell fragments

Fauna Description:
Grab: No visible fauna

Sieve: Annelida (Polychaeta), Mollusca - Bivalvia, Scaphapoda, Echinodermata - *Echinocardium* sp.

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor



Fix: 617 **E:** 311963 **N:** 6068105 **Depth:** 71m

Fix: 623 **E:** 311942 **N:** 6068110 **Depth:** 71m

Station: TCC_94
Sediment Description:
Fix617: Fine to medium sand with sand ripples

Fix623: Fine to medium sand with sand ripples

Fauna Description:
Fix617: Arthropoda (Crustacea) - Paguridae, Other - Cnidaria - Hydrozoa

Fix623: Annelida (Polychaeta), Other - Foraminifera - *Astrorhiza* sp.

Fix: 49 **E:** 311968 **N:** 6068127 **Depth:** 71m

Fix: 49 **E:** 311968 **N:** 6068127 **Retention:** MF

Station: TCC_94
Sediment Description:
Grab: Fine to medium sand

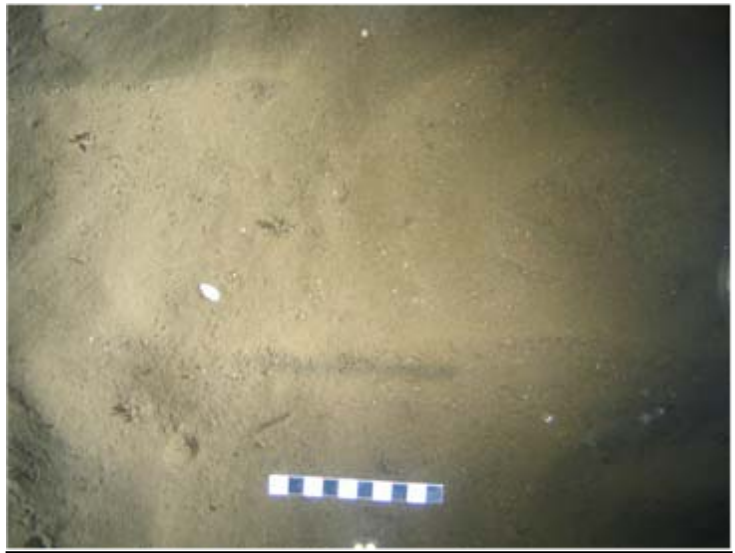
Sieve: Shell fragments

Fauna Description:
Grab: No visible fauna

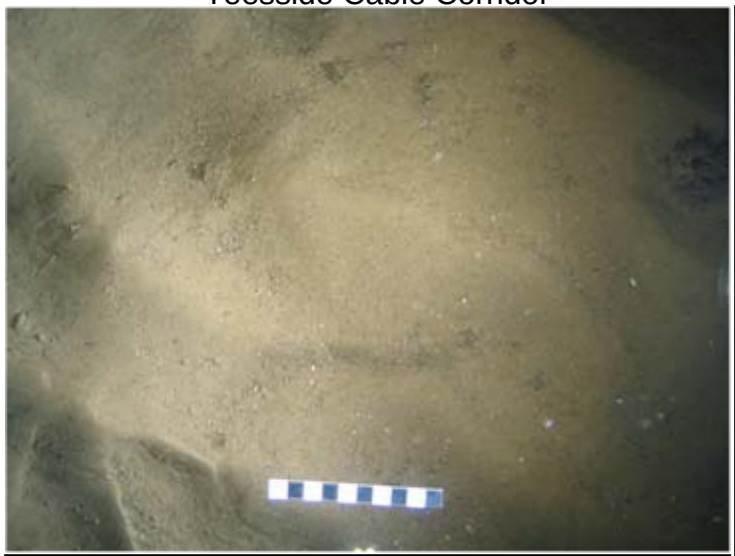
Sieve: Annelida (Polychaeta), Mollusca - Bivalvia

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor



Fix: 628 **E:** 314251 **N:** 6067495 **Depth:** 70m



Fix: 633 **E:** 314296 **N:** 6067498 **Depth:** 70m

Station: TCC_95
Sediment Description:
Fix628: Fine to medium sand with sand ripples

Fix633: Fine to medium sand with sand ripples

Fauna Description:
Fix628: Annelida (Polychaeta), Other - Cnidaria *Virgularia mirabilis*, Foraminifera - *Astrorhiza* sp.

Fix633: Annelida (Polychaeta), Other - Cnidaria Sertulariidae, Foraminifera - *Astrorhiza* sp.

Fix: 55 **E:** 314280 **N:** 6067472 **Depth:** 70m

Fix: 55 **E:** 314280 **N:** 6067472 **Retention:** MF

Station: TCC_95
Sediment Description:
Grab: Fine to medium sand

Sieve: Shell fragments

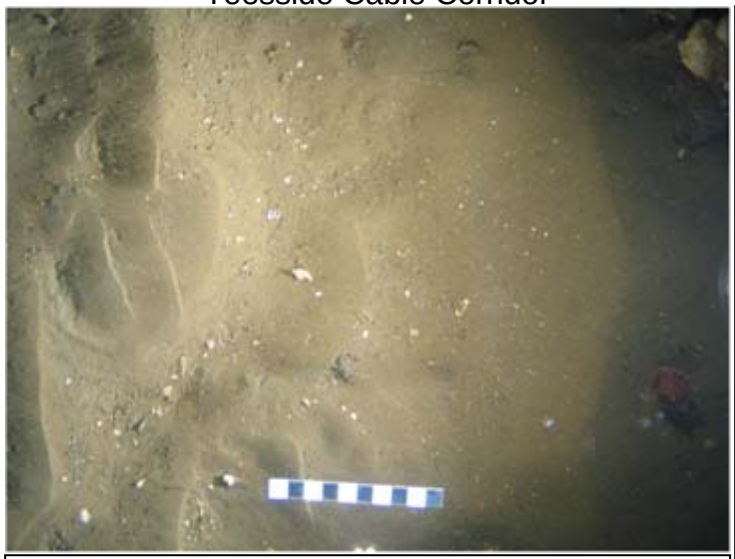
Fauna Description:
Grab: No visible fauna

Sieve: Annelida (Polychaeta), Echinodermata - *Echinocardium* sp.

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor

Fix: 640 **E:** 315608 **N:** 6068630 **Depth:** 69m



Fix: 645 **E:** 315595 **N:** 6068637 **Depth:** 69m

Station: TCC_96
Sediment Description:
Fix640: Fine to medium sand with shell fragments and cobbles with slight sand ripples

Fix645: Fine to medium sand with shell fragments and some cobbles with sand ripples

Fauna Description:
Fix640: Annelida (Polychaeta) - *Spirobranchus* sp., Arthropoda (Crustacea) - Caridea, Echinodermata - *Asterias rubens*, Other - Cnidaria - *Alcyonium* sp., Sertulariidae

Fix645: Annelida (Polychaeta) - Polychaeta tubes, Other - Cnidaria - *Pennatula phosphorea*

Fix: 647 **E:** 315583 **N:** 6068632 **Depth:** 70m

Fix: 652 **E:** 315577 **N:** 6068601 **Depth:** 70m

Station: TCC_96
Sediment Description:
Fix647: Fine to medium sand with shell fragments and cobbles with slight sand ripples

Fix652: Fine to medium sand with shell fragments and cobbles with slight sand ripples

Fauna Description:
Fix647: Annelida (Polychaeta) - Polychaeta, *Spirobranchus* sp., Other - Cnidaria - *Alcyonium* sp., Foraminifera - *Astrorhiza* sp.

Fix652: Annelida (Polychaeta), Other - Cnidaria - *Alcyonium* sp., Sertulariidae, Foraminifera - *Astrorhiza* sp.

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor

Fix: 658 **E:** 315941 **N:** 6068663 **Depth:** 67m

Fix: 662 **E:** 315957 **N:** 6068663 **Depth:** 67m

Station: TCC_97
Sediment Description:
Fix658: Fine to medium sand with sand ripples

Fix662: Fine to medium sand with sand ripples

Fauna Description:
Fix658: Annelida (Polychaeta) - Polychaeta, Polychaete tubes, Aphroditinae, Other - Foraminifera - *Astrorhiza* sp.

Fix662: Annelida (Polychaeta), Echinodermata - *Astropecten irregularis*, Other - Foraminifera - *Astrorhiza* sp.

Fix: 56 **E:** 315958 **N:** 6068652 **Depth:** 67m

Fix: 56 **E:** 315958 **N:** 6068652 **Retention:** MF

Station: TCC_97
Sediment Description:
Grab: Fine to medium sand

Sieve: Shell fragments

Fauna Description:
Grab: No visible fauna

Sieve: Annelida (Polychaeta)

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor

Fix: 670 **E:** 316333 **N:** 6068764 **Depth:** 64m

Fix: 673 **E:** 316348 **N:** 6068773 **Depth:** 64m

Station: TCC_98
Sediment Description:
Fix670: Fine to medium sand with sand ripples and some coarse sediment including cobbles

Fix673: Fine to medium sand with sand ripples and some coarse sediment including shell fragments and cobbles

Fauna Description:
Fix670: Annelida (Polychaeta), Mollusca - Scaphopoda, Other - Cnidaria - *Alcyonium* sp., Plumulariidae

Fix673: Annelida (Polychaeta) - Polychaeta, *Spirobranchus* sp., Echinodermata - Asteroidea, Other – Bryozoa, Cnidaria - Actiniaria, *Alcyonium* sp., encrusting Porifera

Fix: 677 **E:** 316346 **N:** 6068758 **Depth:** 64m

Fix: 683 **E:** 316341 **N:** 6068760 **Depth:** 64m

Station: TCC_98
Sediment Description:
Fix677: Fine to medium sand with sand ripples and coarse sediment including cobbles

Fix683: Fine to medium sand with sand ripples and coarse sediment including shell fragments and cobbles

Fauna Description:
Fix677: Annelida (Polychaeta) - Polychaeta, *Spirobranchus* sp., Arthropoda (Crustacea) - Caridea, Paguridae, Other - Cnidaria - *Alcyonium* sp.

Fix683: Annelida (Polychaeta) - Polychaeta, *Spirobranchus* sp., Arthropoda (Crustacea) - Caridea, Other - Cnidaria - *Alcyonium* sp.

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor

Fix: 691 **E:** 317507 **N:** 6068972 **Depth:** 63m

Fix: 697 **E:** 317499 **N:** 6068984 **Depth:** 63m

Station: TCC_99
Sediment Description:
Fix691: Fine to medium sand with sand ripples

Fix697: Fine to medium sand with sand ripples

Fauna Description:
Fix691: Annelida (Polychaeta) - Polychaeta, *Oxydromus flexuosus*, Polychaete tubes, Mollusca - *Aequipecten opercularis*- with possible Hydrozoa, Other - Bryozoa, - Foraminifera - *Astrorhiza* sp.

Fix697: Annelida (Polychaeta) - Polychaeta tubes, Arthropoda (Crustacea) - Paguridae, Other - Foraminifera - *Astrorhiza* sp.

Fix: 54 **E:** 317535 **N:** 6068946 **Depth:** 63m

Fix: 54 **E:** 317535 **N:** 6068946 **Retention:** MF

Station: TCC_99
Sediment Description:
Grab: Fine to medium sand

Sieve: Shell fragments

Fauna Description:
Grab: No visible fauna

Sieve: Annelida (Polychaeta)

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor

Fix: 702 **E:** 320941 **N:** 6069475 **Depth:** 66m

Fix: 708 **E:** 320945 **N:** 6069462 **Depth:** 66m

Station: TCC_100
Sediment Description:
Fix702: Sand with ripples

Fix708: Sand with ripples

Fauna Description:
Fix702: Annelida (Polychaeta) - Polychaete tubes, Other - Foraminifera - *Astrorhiza* sp.

Fix708: Annelida (Polychaeta) - Polychaete tubes, Arthropoda (Crustacea) - Amphipoda, Other - Foraminifera - *Astrorhiza* sp.

Fix: 57 **E:** 320928 **N:** 6069483 **Depth:** 66m

Fix: 57 **E:** 320928 **N:** 6069483 **Retention:** MF

Station: TCC_100
Sediment Description:
Grab: Sand

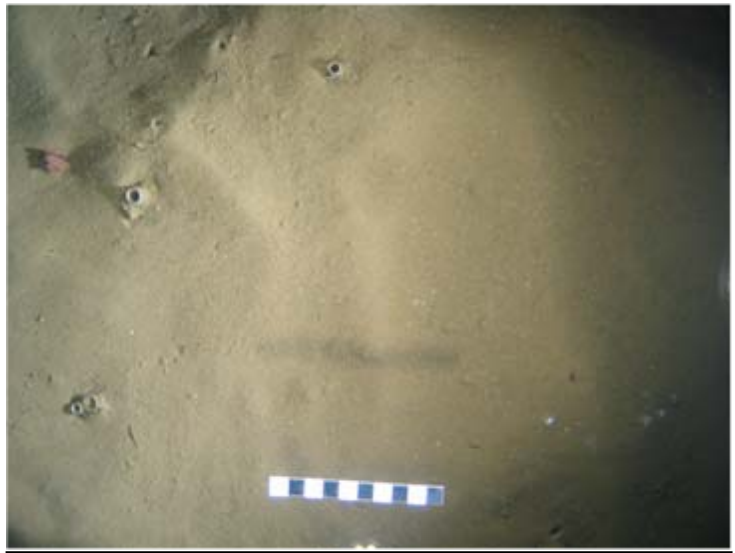
Sieve: Some shell fragments

Fauna Description:
Grab: Annelida

Sieve: Annelida, Mollusca - Scaphapoda

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor



Fix: 716 **E:** 326737 **N:** 6071374 **Depth:** 69m

Fix: 725 **E:** 326739 **N:** 6071345 **Depth:** 69m

Station: TCC_101
Sediment Description:
Fix716: Sand with ripples

Fix725: Sand with ripples

Fauna Description:
Fix716: Annelida (Polychaeta) - Polychaete tubes, Other - Cnidaria - *Pennatula phosphorea*

Fix725: Annelida (Polychaeta) - Polychaete tubes, Other - Cnidaria - *Pennatula phosphorea*

Fix: 59 **E:** 326739 **N:** 6071355 **Depth:** 69m

Fix: 59 **E:** 326739 **N:** 6071355 **Retention:** MF

Station: TCC_101
Sediment Description:
Grab: Sand

Sieve: Some shell fragments

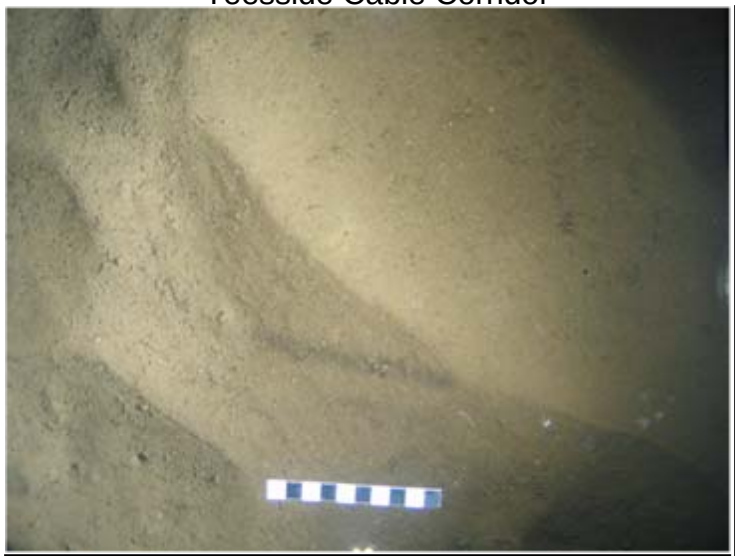
Fauna Description:
Grab: Arthropoda (Crustacea) - Brachyura

Sieve: Annelida, Echinodermata - Ophiuroidea

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor

Fix: 731 **E:** 327729 **N:** 6071686 **Depth:** 72m



Fix: 736 **E:** 327752 **N:** 6071713 **Depth:** 72m

Station: TCC_102
Sediment Description:
Fix731: Sand with ripples

Fix736: Sand with ripples

Fauna Description:
Fix731: Annelida (Polychaeta) - Polychaete tubes, Other - Cnidaria - *Pennatula phosphorea*

Fix736: Annelida (Polychaeta) - Polychaete tubes

Fix: 58 **E:** 327759 **N:** 6071728 **Depth:** 72m

Fix: 58 **E:** 327759 **N:** 6071728 **Retention:** MF

Station: TCC_102
Sediment Description:
Grab: Sand

Sieve: Some shell fragments

Fauna Description:
Grab: No visible fauna

Sieve: Annelida (Polychaeta), Arthropoda (Crustacea) – Amphipoda, Mollusca - Scaphapoda, Echinodermata - *Echinocardium* sp.

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor

Fix: 742 **E:** 336535 **N:** 6074982 **Depth:** 77m

Fix: 746 **E:** 336564 **N:** 6074970 **Depth:** 77m

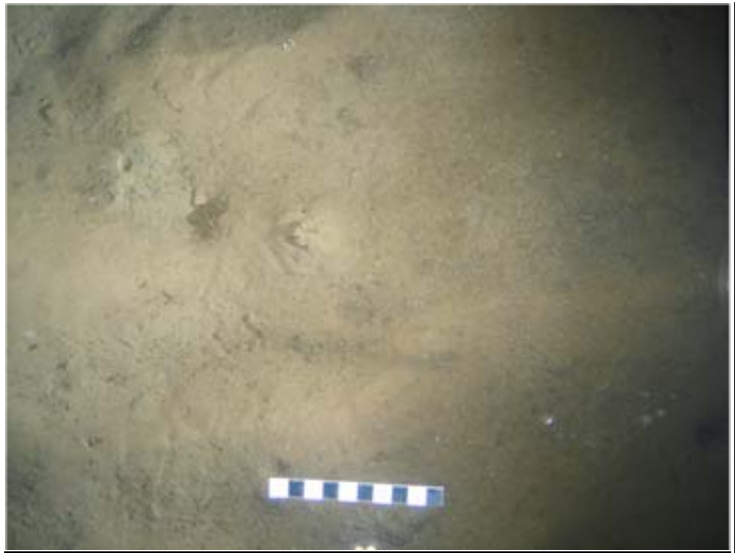
Station: TCC_103*
Sediment Description:
Fix742: Sand with ripples

Fix746: Sand with ripples

Fauna Description:
Fix742: Annelida (Polychaeta) - Polychaete tubes, other - Cnidaria - *Pennatula phosphorea*

Fix746: Annelida (Polychaeta) - Polychaete tubes, Other - Cnidaria - *Pennatula phosphorea*, Teleostei - Gobiidae

Fix: 748 **E:** 336565 **N:** 6074925 **Depth:** 77m



Fix: 752 **E:** 336567 **N:** 6074935 **Depth:** 77

Station: TCC_103*
Sediment Description:
Fix748: Sand with ripples

Fix752: Sand with ripples

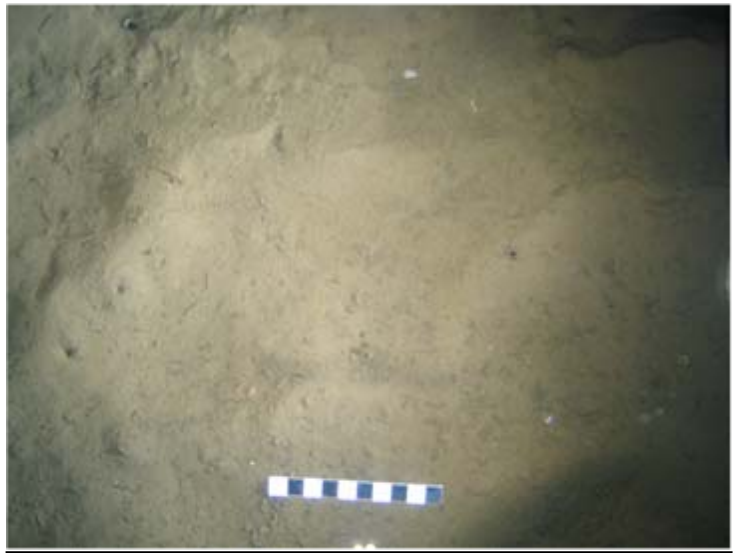
Fauna Description:
Fix748: Annelida (Polychaeta) - Polychaete tubes, Other - Cnidaria - *Alcyonium* sp., *Pennatula phosphorea*, Foraminifera - *Astrorhiza* sp.

Fix752: Annelida (Polychaete tubes)

* No grab or sieve photo available

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor



Fix: 753 **E:** 342461 **N:** 6074447 **Depth:** 80m

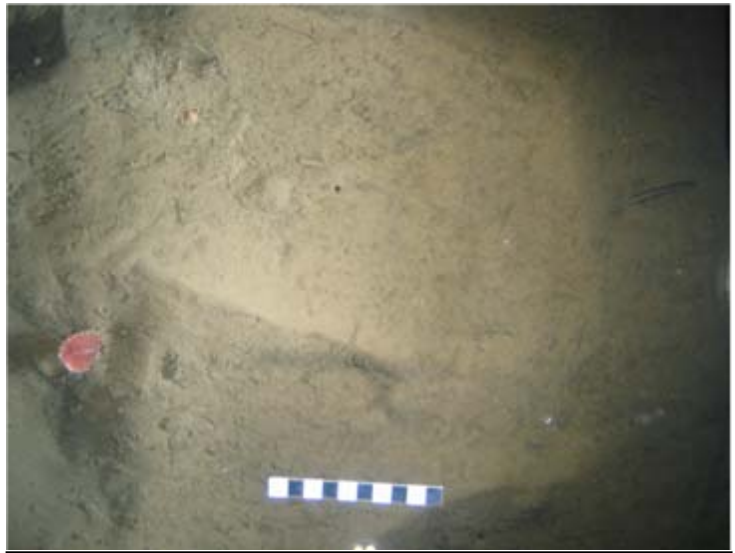
Fix: 755 **E:** 342498 **N:** 6074413 **Depth:** 80m

Station: TCC_104
Sediment Description:
Fix753: Sand with ripples

Fix755: Sand with ripples

Fauna Description:
Fix753: Annelida (Polcyhaeta) - Polychaete tubes

Fix755: Annelida (Polychaeta) - Polychaete tubes, Other - Cnidaria - *Pennatula phosphorea*



Fix: 757 **E:** 342502 **N:** 6074420 **Depth:** 80m

Fix: 759 **E:** 342469 **N:** 6074429 **Depth:** 80m

Station: TCC_104
Sediment Description:
Fix757: Sand with ripples

Fix759: Sand with ripples

Fauna Description:
Fix757: Annelida (Polychaeta) - Polychaete tubes, Arthropoda (Crustacea) - *Ebalia* sp., Other - Cnidaria - *Pennatula phosphorea*, Foraminifera - *Astrorhiza* sp.

Fix759: Annelida (Polychaeta) - Polychaete tubes

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor

Fix: 763 **E:** 343425 **N:** 6074467 **Depth:** 76m

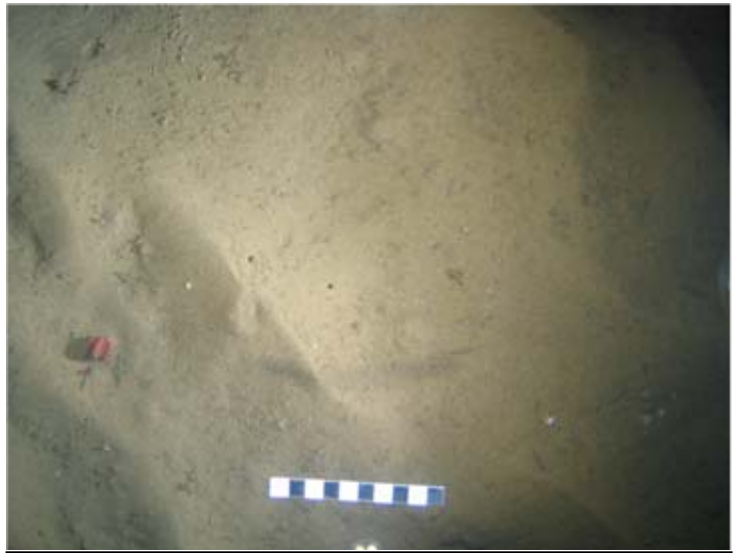
Fix: 765 **E:** 343395 **N:** 6074467 **Depth:** 76m

Station: TCC_105
Sediment Description:
Fix763: Sand with ripples

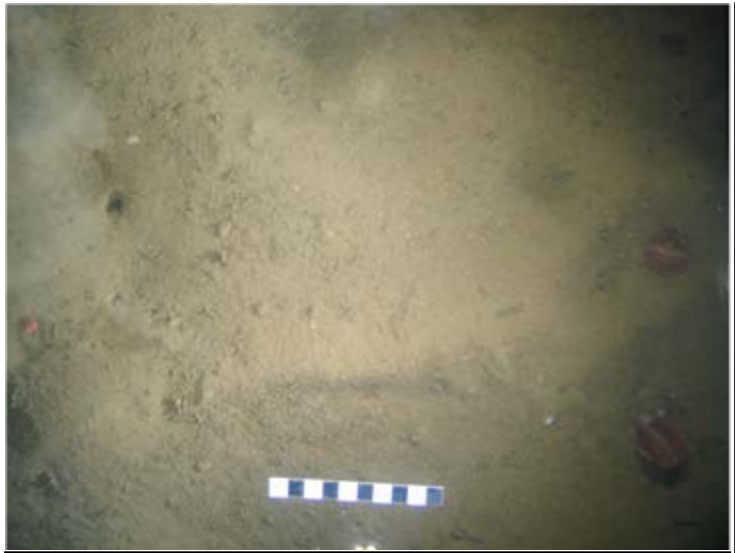
Fix765: Sand with ripples

Fauna Description:
Fix763: Annelida (Polychaeta) - Polychaete tubes, Aphroditidae

Fix765: Annelida (Polychaeta) - Polychaete tubes, Other - Foraminifera - *Astrorhiza* sp.



Fix: 766 **E:** 343387 **N:** 6074473 **Depth:** 76m



Fix: 769 **E:** 343424 **N:** 6074434 **Depth:** 76m

Station: TCC_105
Sediment Description:
Fix766: Sand with ripples

Fix769: Sand with ripples

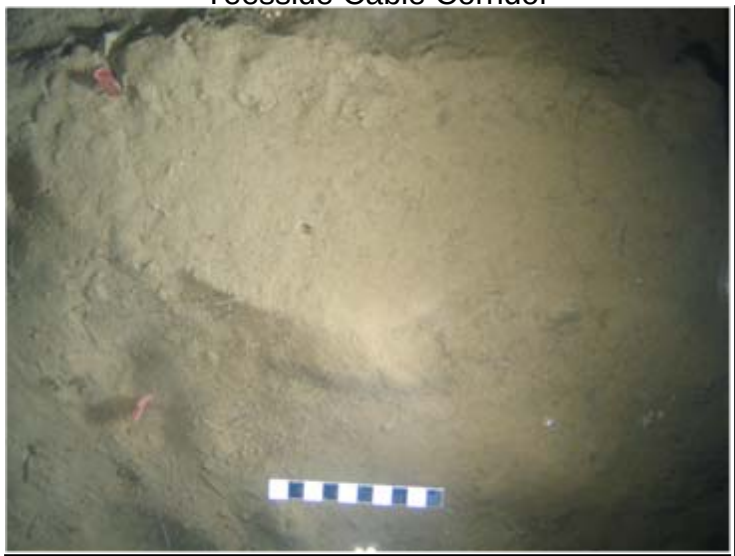
Fauna Description:
Fix766: Annelida (Polychaeta) - Polychaete tubes, Other - Cnidaria - *Pennatula phosphorea*, Foraminifera - *Astrorhiza* sp.

Fix769: Annelida (Polychaeta) - Polychaete tubes, Other - Cnidaria - *Pennatula phosphorea*

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor

Fix: 771 **E:** 350197 **N:** 6075801 **Depth:** 78m



Fix: 774 **E:** 350161 **N:** 6075805 **Depth:** 78m

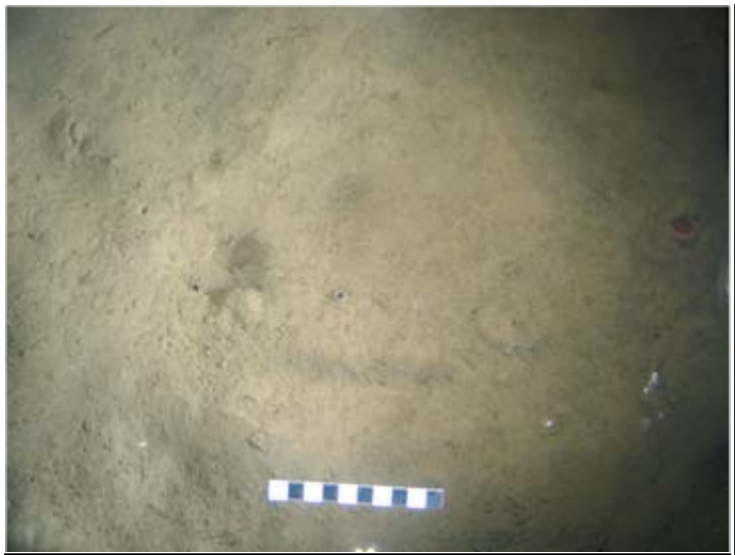
Station: TCC_106*
Sediment Description:
Fix771: Sand

Fix774: Sand

Fauna Description:
Fix771: Annelida (Polychaeta) - Polychaete tubes, Other - Cnidaria - *Pennatula phosphorea*

Fix774: Annelida (Polychaeta) - Polychaete tubes, Other - Cnidaria - *Pennatula phosphorea*, *Epizoanthus papillosus*

Fix: 777 **E:** 350140 **N:** 6075817 **Depth:** 78m



Fix: 778 **E:** 350132 **N:** 6075824 **Depth:** 78m

Station: TCC_106*
Sediment Description:
Fix777: Sand

Fix778: Sand

Fauna Description:
Fix777: Annelida (Polychaeta) - Polychaete tubes, Echinodermata - *Astropectren irregularis*, Other - Cnidaria - *Pennatula phosphorea*

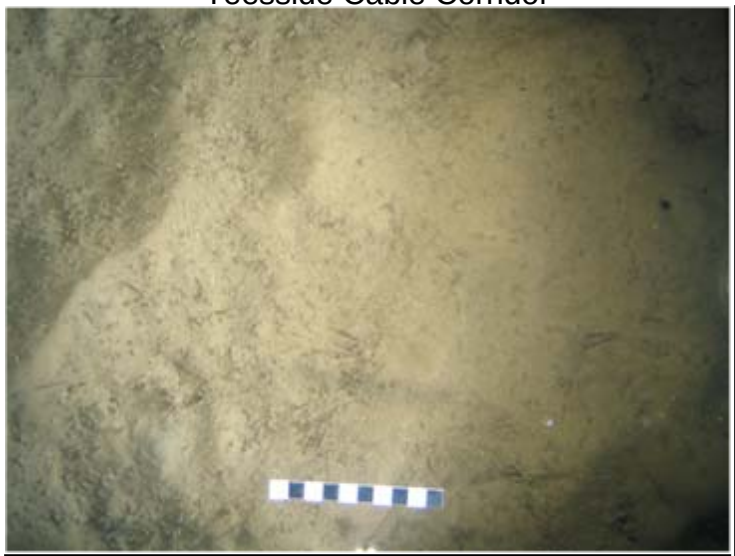
Fix778: Annelida (Polychaeta) - Polychaete tubes, Other - Cnidaria - *Pennatula phosphorea*, Foraminifera - *Astrorhiza* sp.

* No grab or sieve photo available

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor

Fix: 782 **E:** 351072 **N:** 6076091 **Depth:** 80m



Fix: 785 **E:** 351056 **N:** 6076103 **Depth:** 80m

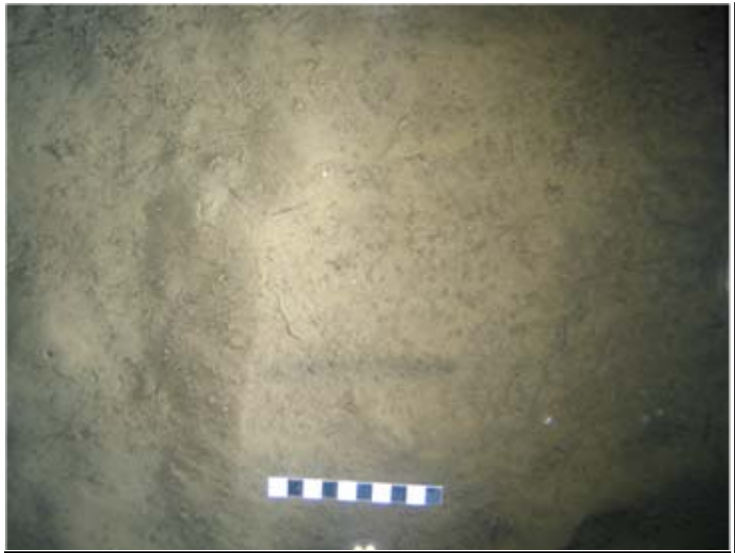
Station: TCC_107*
Sediment Description:
Fix782: Sand

Fix785: Sand

Fauna Description:
Fix782: Annelida (Polychaeta) - Polychaete tubes, Other - Chordata - Pleuronectiformes, Cnidaria - *Alcyonium* sp., *Virgularia mirabilis*

Fix785: Annelida (Polychaeta) - Polychaete tubes, Other - Foraminifera - *Astrorhiza* sp.

Fix: 789 **E:** 351053 **N:** 6076050 **Depth:** 80m



Fix: 791 **E:** 351058 **N:** 6076081 **Depth:** 80m

Station: TCC_107*
Sediment Description:
Fix789: Sand

Fix791: Sand

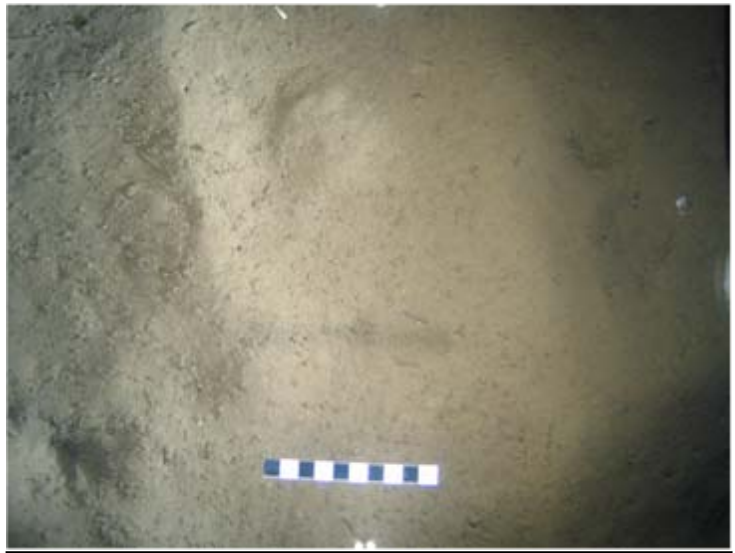
Fauna Description:
Fix789: Arthropoda (Crustacea) - Paguridae, Other - Cnidaria - *Hydractinia echinata*, Foraminifera - *Astrorhiza* sp.

Fix791: Annelida (Polychaeta) - Polychaete tubes

* No grab or sieve photo available

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor



Fix: 897 **E:** 359462 **N:** 6076916 **Depth:** 73m

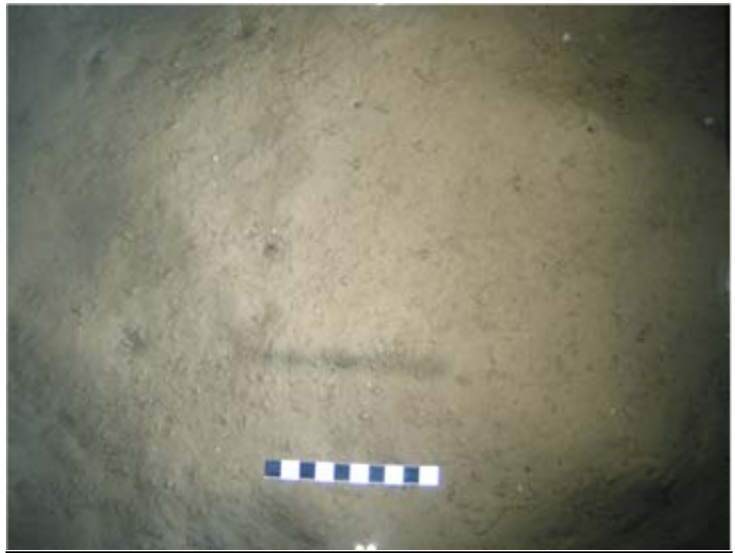
Fix: 899 **E:** 359482 **N:** 6076931 **Depth:** 73m

Station: TCC_108
Sediment Description:
Fix897: Sand

Fix899: Sand

Fauna Description:
Fix897: Annelida (Polychaeta) - Polychaete tubes

Fix899: Annelida (Polychaeta) - Polychaete tubes, *Oxydromus flexuosus*, Other - Foraminifera - *Astrorhiza* sp.



Fix: 902 **E:** 359463 **N:** 6076925 **Depth:** 73m

Fix: 904 **E:** 359479 **N:** 6076882 **Depth:** 74m

Station: TCC_108
Sediment Description:
Fix902: Sand

Fix904: Sand

Fauna Description:
Fix902: Annelida (Polychaeta) - Polychaete tubes

Fix904: Annelida (Polychaeta) - Polychaete tubes, Echinodermata –Ophiuroidea, Other - Cnidaria - *Pennatula phosphorea*

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor

Fix: 909 **E:** 360495 **N:** 6077027 **Depth:** 70m

Fix: 911 **E:** 360463 **N:** 6077033 **Depth:** 70m

Station: TCC_109
Sediment Description:
Fix909: Sand

Fix911: Sand

Fauna Description:
Fix909: Annelida (Polychaeta) - Polychaete tubes, Arthropoda (Crustacea) - *Ebalia* sp.

Fix911: Annelida (Polychaeta) - Polychaete tubes, Arthropoda (Crustacea) - Paguridae, Other - Cnidaria - *Pennatula phosphorea*

Fix: 76 **E:** 360472 **N:** 6077025 **Depth:** 70m

Fix: 76 **E:** 360472 **N:** 6077025 **Retention:** MF

Station: TCC_109
Sediment Description:
Grab: Sand

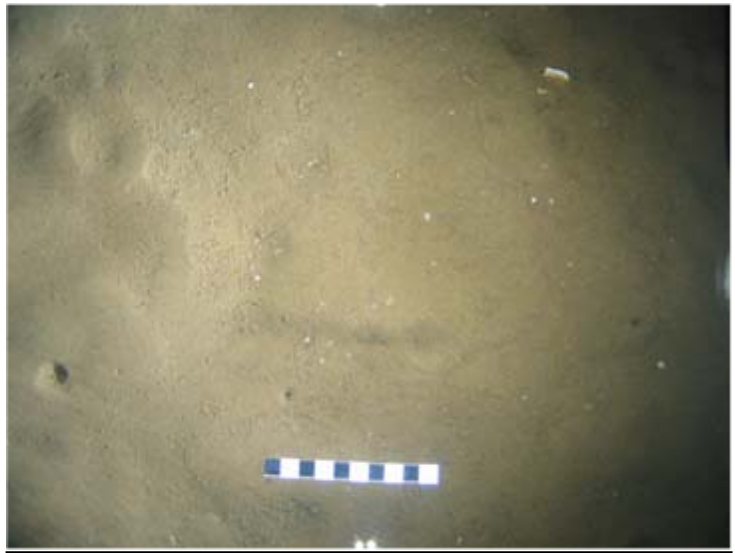
Sieve: Some shell fragments

Fauna Description:
Grab: No visible fauna

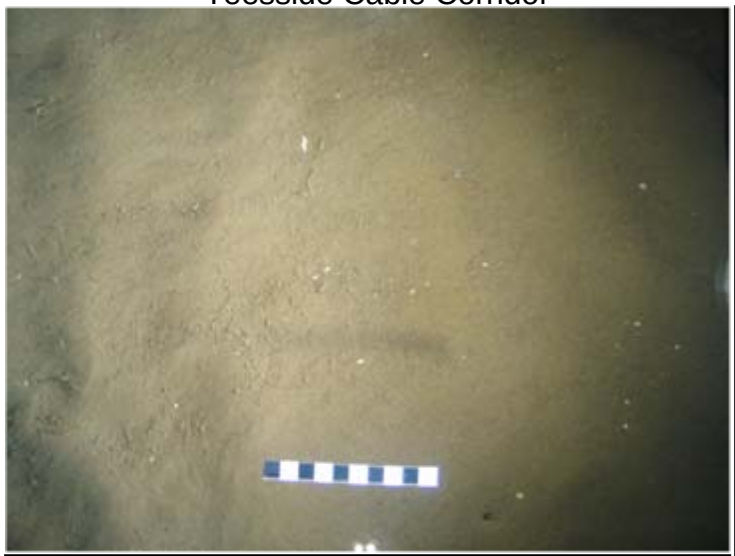
Sieve: Annelida (Polychaeta), Echinodermata - Ophiuroidea

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor



Fix: 888 **E:** 369867 **N:** 6079793 **Depth:** 56m



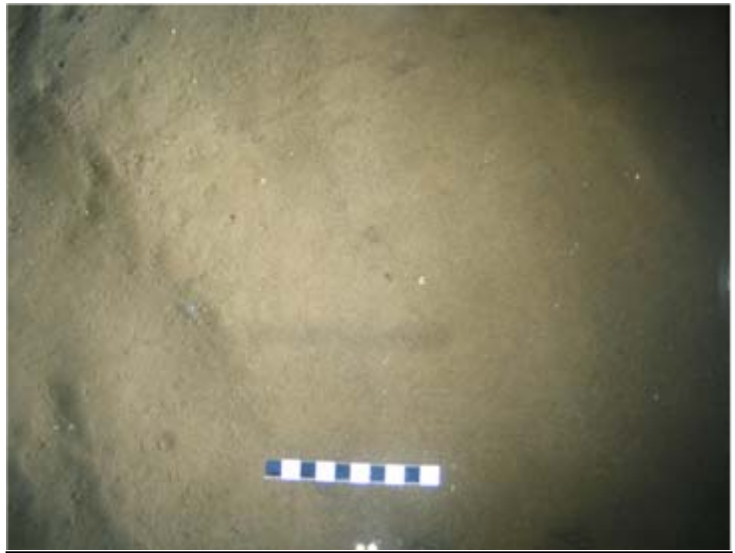
Fix: 890 **E:** 369935 **N:** 6079787 **Depth:** 56m

Station: TCC_110
Sediment Description:
Fix888: Fine sand with some shell fragments

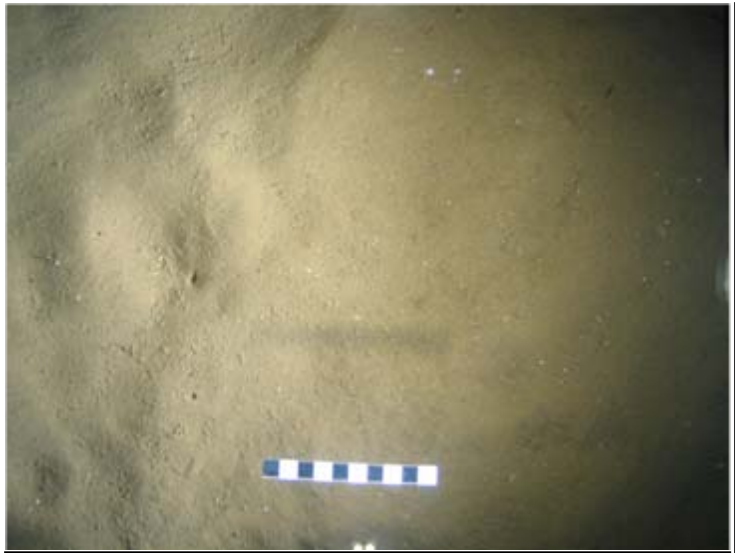
Fix890: Fine sand with some shell fragments

Fauna Description:
Fix888: Annelida (Polychaeta) - Polychaete tubes

Fix890: Annelida (Polychaeta) - Polychaete tubes



Fix: 894 **E:** 369903 **N:** 6079814 **Depth:** 56m



Fix: 895 **E:** 369910 **N:** 6079778 **Depth:** 56m

Station: TCC_110
Sediment Description:
Fix894: Fine sand with some shell fragments

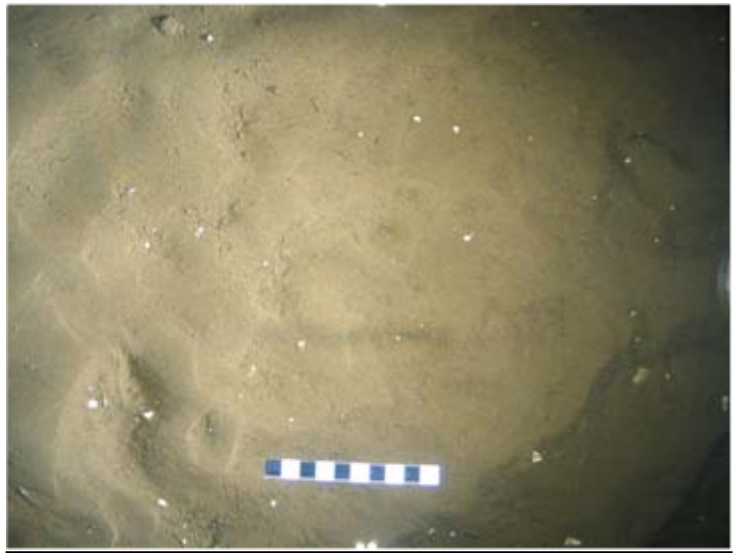
Fix895: Fine sand with some shell fragments

Fauna Description:
Fix894: Annelida (Polychaeta) - Polychaete tubes

Fix895: Annelida (Polychaeta) - Polychaete tubes

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor



Fix: 881 **E:** 370915 **N:** 6079967 **Depth:** 52m

Fix: 883 **E:** 370898 **N:** 6079995 **Depth:** 52m

Station: TCC_111
Sediment Description:
Fix881: Fine sand with some shell fragments

Fix883: Fine sand with some shell fragments

Fauna Description:
Fix881: Annelida (Polychaeta) - Polychaete tubes

Fix883: Annelida (Polychaeta) - Polychaete tubes

Fix: 75 **E:** 370960 **N:** 6080002 **Depth:** 52m

Fix: 75 **E:** 370960 **N:** 6080002 **Retention:** MF

Station: TCC_111
Sediment Description:
Grab: Fine sand with some shell fragments

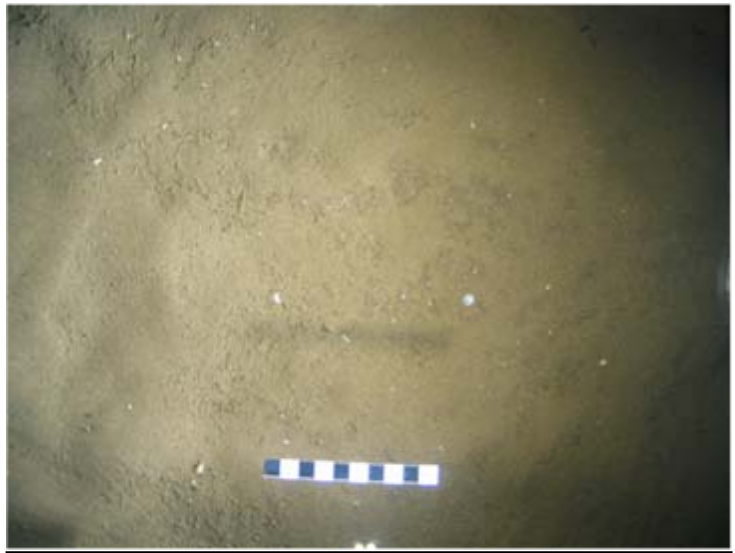
Sieve: Shells and shell fragments

Fauna Description:
Grab: No visible fauna

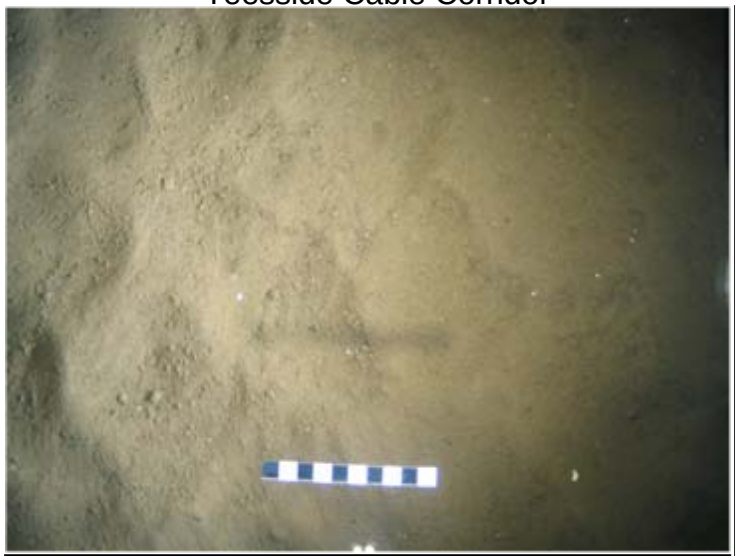
Sieve: No visible fauna

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor



Fix: 872 **E:** 371814 **N:** 6080104 **Depth:** 55m



Fix: 876 **E:** 371845 **N:** 6080089 **Depth:** 55m

Station: TCC_112
Sediment Description:
Fix872: Fine sand with some shell fragments

Fix876: Fine sand with some shell fragments

Fauna Description:
Fix872: Annelida (Polychaeta) - Polychaete tubes

Fix876: Annelida (Polychaeta) - Polychaete tubes

Fix: 74 **E:** 371841 **N:** 6080103 **Depth:** 55m

Fix: 74 **E:** 371841 **N:** 6080103 **Retention:** MF

Station: TCC_112
Sediment Description:
Grab: Fine sand with some shell fragments

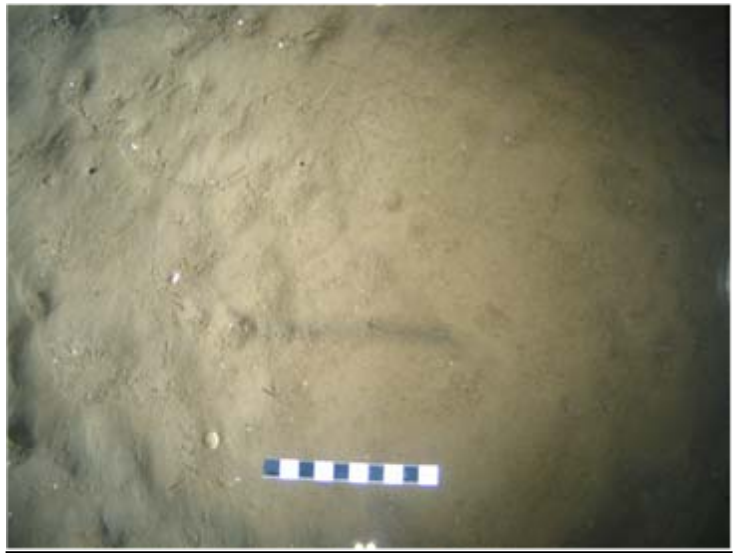
Sieve: Shells and shell fragments

Fauna Description:
Grab: No visible fauna

Sieve: Annelida (Polychaeta) - Polychaete tubes

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor



Fix: 861 **E:** 373084 **N:** 6080213 **Depth:** 58m

Fix: 865 **E:** 373061 **N:** 6080205 **Depth:** 58m

Station: TCC_113
Sediment Description:
Fix861: Fine sand with some shell fragments

Fix865: Fine sand with some shell fragments

Fauna Description:
Fix861: Annelida (Polychaeta) - Polychaete tubes

Fix865: Annelida (Polychaeta) - Polychaete tubes

Fix: 73 **E:** 373103 **N:** 6080193 **Depth:** 58m

Fix: 73 **E:** 373103 **N:** 6080193 **Retention:** MF

Station: TCC_113
Sediment Description:
Grab: Fine sand

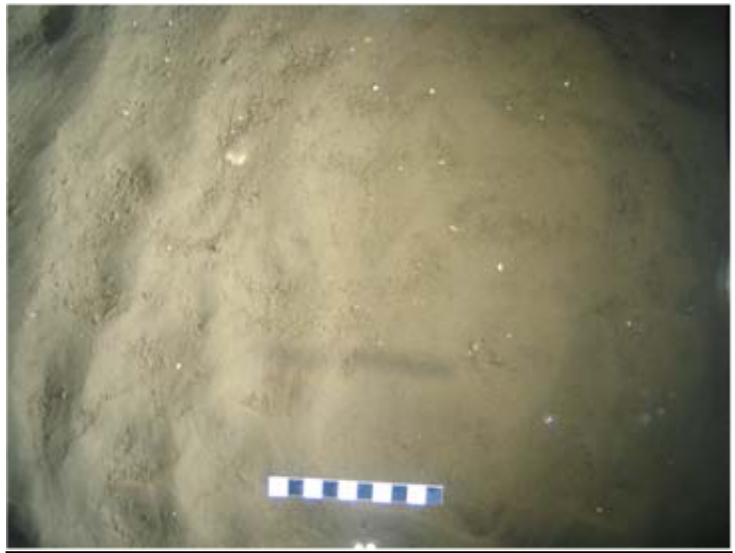
Sieve: Shells, shell fragments and gravel

Fauna Description:
Grab: No visible fauna

Sieve: Annelida (Polychaeta)

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor



Fix: 855 **E:** 380860 **N:** 6081071 **Depth:** 47

Fix: 857 **E:** 380854 **N:** 6081096 **Depth:** 47

Station: TCC_114
Sediment Description:
Fix855: Fine sand with some shell fragments

Fix857: Fine sand with some shell fragments

Fauna Description:
Fix855: Annelida (Polychaeta) - Polychaete tubes

Fix857: Annelida (Polychaeta) - Polychaete tubes, Arthropoda (Crustacea) - Paguridae, Other - Cnidaria - *Hydractinia echinata*

Fix: 72 **E:** 380897 **N:** 6081121 **Depth:** 47

Fix: 72 **E:** 380897 **N:** 6081121 **Retention:** MF

Station: TCC_114
Sediment Description:
Grab: Fine sand with some shell fragments

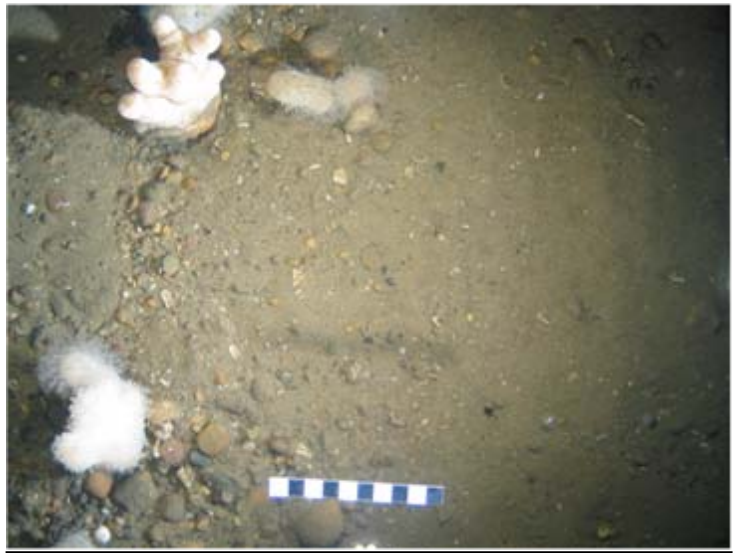
Sieve: Shell fragments

Fauna Description:
Grab: No visible fauna

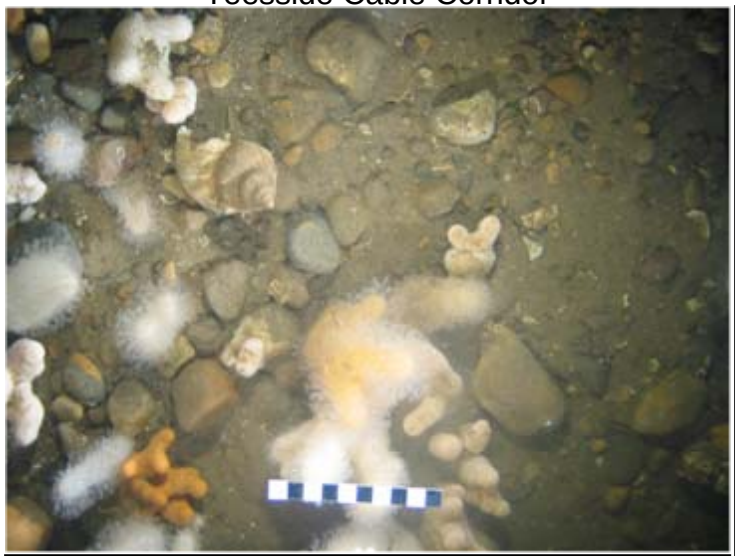
Sieve: Annelida (Polychaeta)

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor



Fix: 844 **E:** 384684 **N:** 6080448 **Depth:** 43



Fix: 848 **E:** 384646 **N:** 6080482 **Depth:** 43

Station: TCC_115
Sediment Description:
Fix844: Gravelly sand with pebbles

Fix848: Gravelly sand with pebbles and cobbles

Fauna Description:
Fix844: Annelida (Polychaeta) - *Spirobranchus* sp., Echinodermata - *Psammechinus* sp., Other – Cnidaria - *Alcyonium* sp.

Fix848: Annelida (Polychaeta) - *Spirobranchus* sp., Echinodermata - Ophiuroidea, Other - Cnidaria - *Alcyonium* sp.

Fix: 68 **E:** 384705 **N:** 6080481 **Depth:** 44

Fix: 68 **E:** 384705 **N:** 6080481 **Retention:** MF

Station: TCC_115
Sediment Description:
Grab: Gravelly sand with pebbles and shell fragments

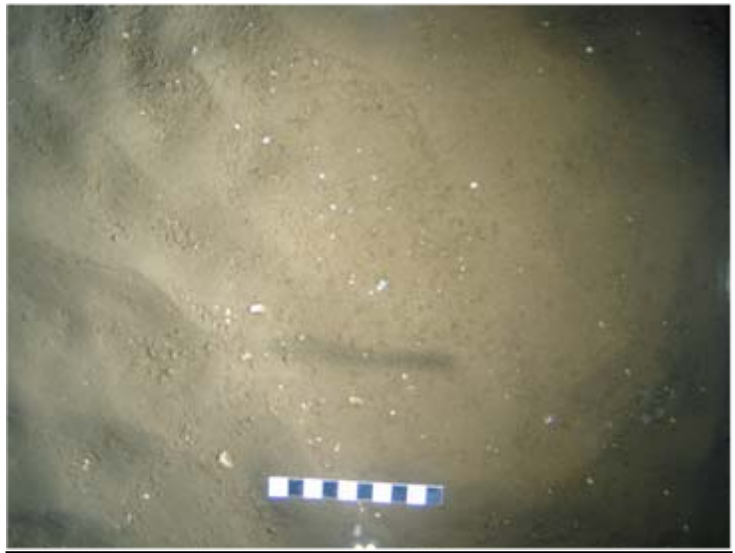
Sieve: Gravel and pebbles with shells and shell fragments

Fauna Description:
Grab: Annelida (Polychaeta) - *Spirobranchus* sp.

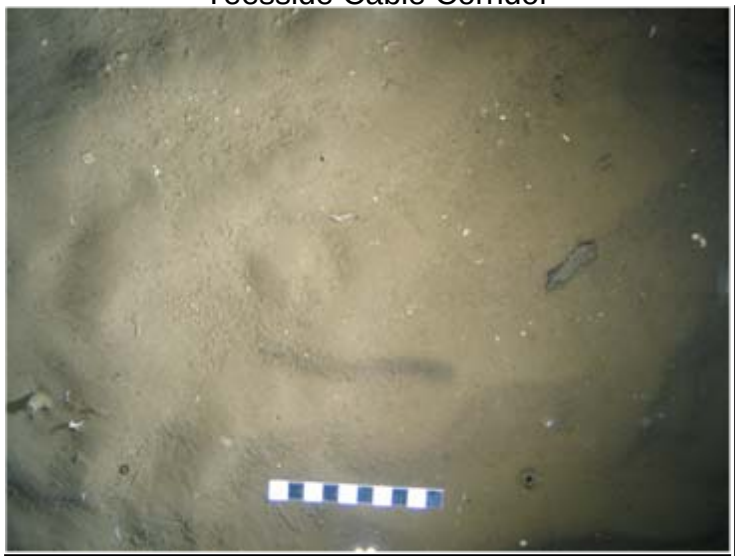
Sieve: Annelida (Polychaeta) - *Spirobranchus* sp., Echinodermata - *Echinocardium* sp., Other - Cnidaria - *Alcyonium* sp.

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor



Fix: 835 **E:** 385880 **N:** 6080653 **Depth:** 43m



Fix: 838 **E:** 385892 **N:** 6080642 **Depth:** 43m

Station: TCC_116
Sediment Description:
Fix835: Fine sand with some shell fragments

Fix838: Fine sand with some shell fragments

Fauna Description:
Fix835: Annelida (Polychaeta) - Polychaete tubes

Fix838: Annelida (Polychaeta) - Polychaete tubes

Fix: 69 **E:** 385860 **N:** 6080672 **Depth:** 43m

Fix: 69 **E:** 385860 **N:** 6080672 **Retention:** MF

Station: TCC_116
Sediment Description:
Grab: Fine sand with some shell fragments

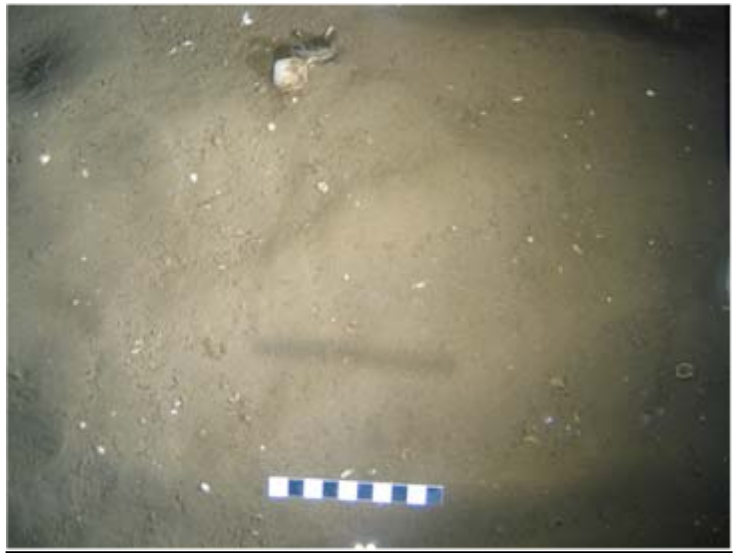
Sieve: Shell fragments

Fauna Description:
Grab: Annelida (Polychaeta)

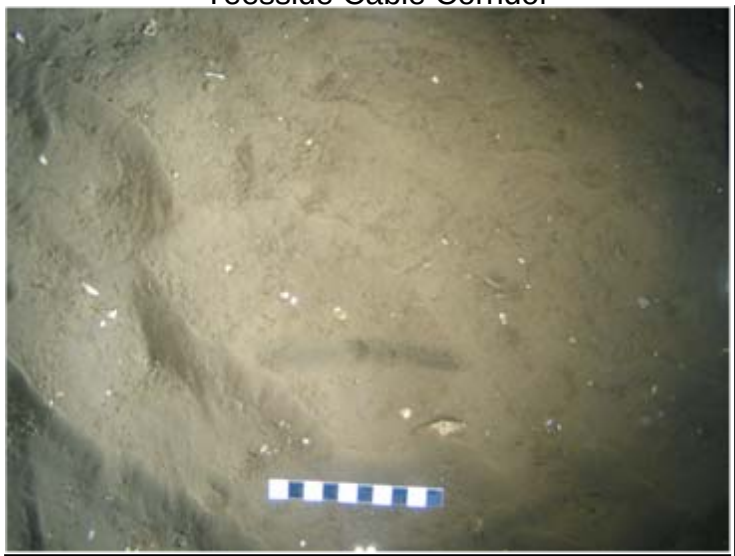
Sieve: Annelida (Polychaeta)

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor



Fix: 820 **E:** 386781 **N:** 6080868 **Depth:** 38m



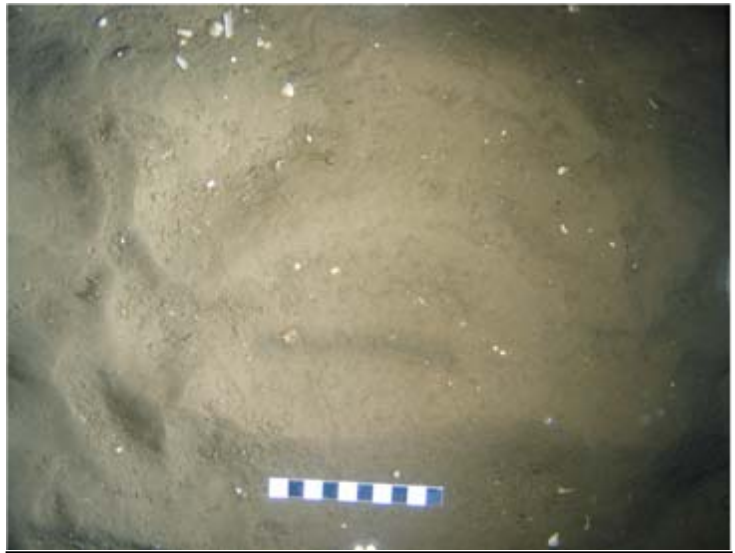
Fix: 822 **E:** 386791 **N:** 6080866 **Depth:** 38m

Station: TCC_117
Sediment Description:
Fix820: Fine sand with some shell fragments

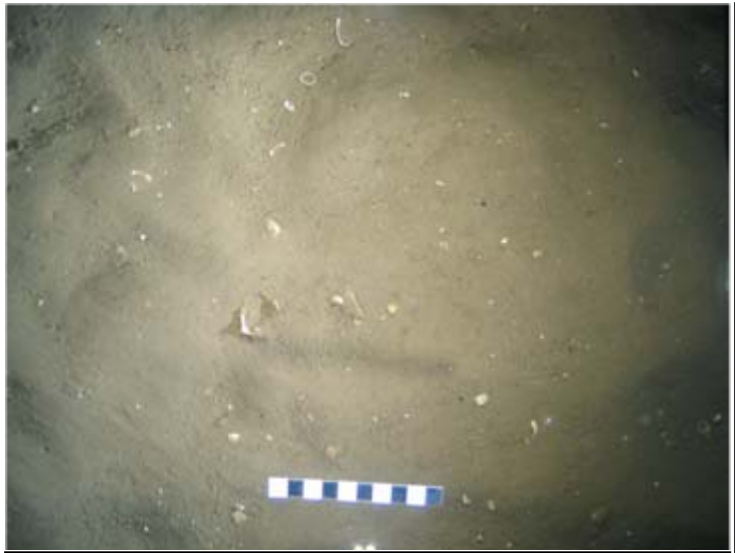
Fix822: Fine sand with some shell fragments

Fauna Description:
Fix820: Annelida (Polychaeta) - Polychaete tubes

Fix822: Annelida (Polychaeta) - Polychaete tubes



Fix: 824 **E:** 386789 **N:** 6080864 **Depth:** 38m



Fix: 826 **E:** 386791 **N:** 6080859 **Depth:** 38m

Station: TCC_117
Sediment Description:
Fix824: Fine sand with some shell fragments

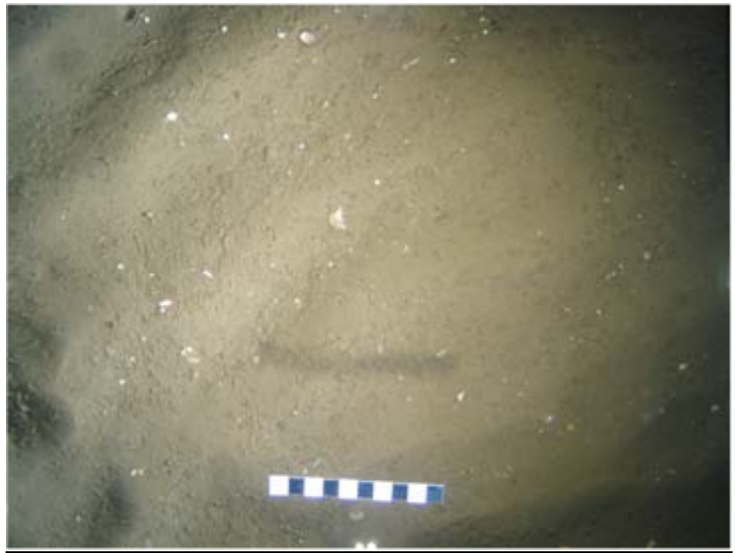
Fix826: Fine sand with some shell fragments

Fauna Description:
Fix824: Annelida (Polychaeta) - Polychaete tubes

Fix826: Annelida (Polychaeta) - Polychaete tubes

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor



Fix: 815 **E:** 388018 **N:** 6081073 **Depth:** 37

Fix: 817 **E:** 388005 **N:** 6081053 **Depth:** 37

Station: TCC_118
Sediment Description:
Fix815: Fine sand with some shell fragments

Fix817: Fine sand with some shell fragments

Fauna Description:
Fix815: Annelida (Polychaeta) - Polychaete tubes

Fix817: Annelida (Polychaeta) - Polychaete tubes

Fix: 70 **E:** 388020 **N:** 6081038 **Depth:** 37

Fix: 70 **E:** 388020 **N:** 6081038 **Retention:** MF

Station: TCC_118
Sediment Description:
Grab: Fine sand with some shell fragments

Sieve: Shells and shell fragments

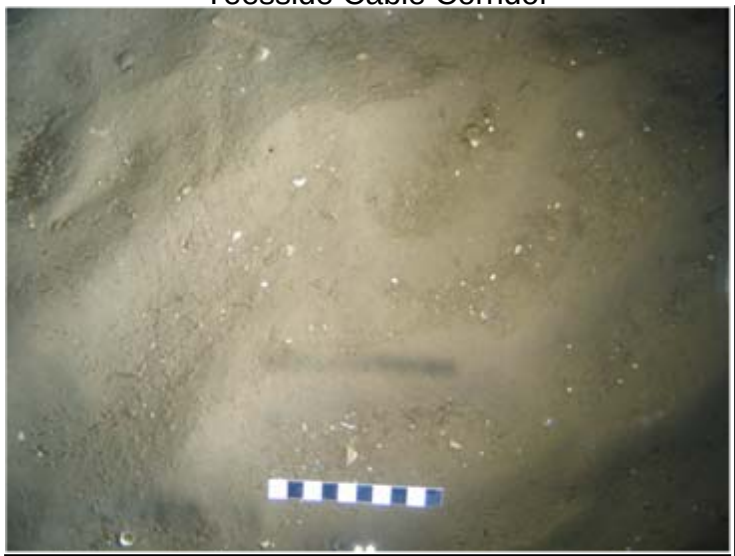
Fauna Description:
Grab: No visible fauna

Sieve: Annelida (Polychaeta) - Aphroditidae

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor

Fix: 803 **E:** 389867 **N:** 6081256 **Depth:** 33m



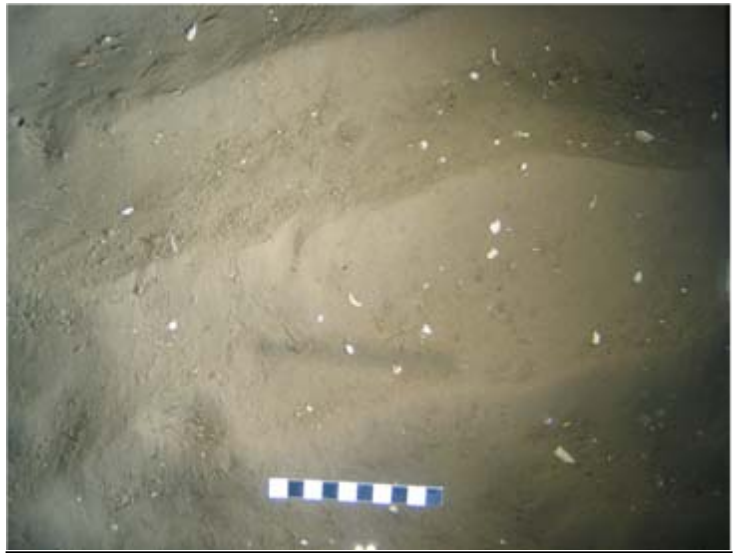
Fix: 805 **E:** 389876 **N:** 6081245 **Depth:** 33m

Station: TCC_119
Sediment Description:
Fix803: Fine sand with some shell fragments

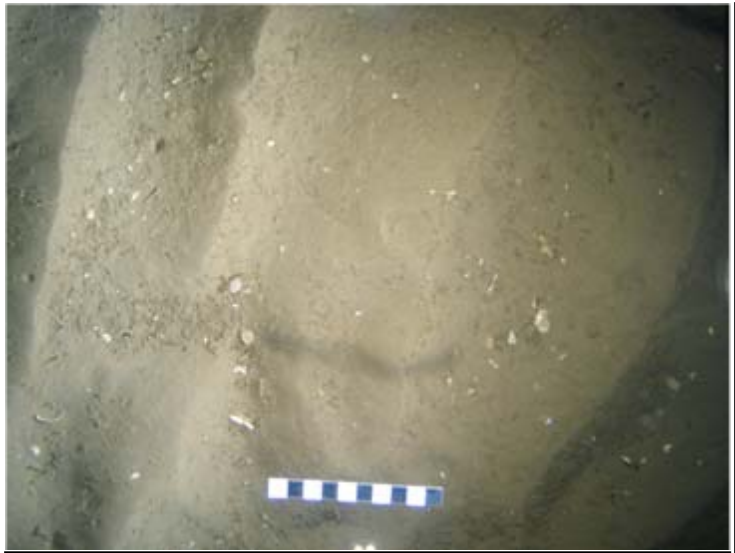
Fix805: Fine sand with some shell fragments

Fauna Description:
Fix803: Annelida (Polychaeta) - Polychaete tubes

Fix805: Annelida (Polychaeta) - Polychaete tubes



Fix: 809 **E:** 389883 **N:** 6081243 **Depth:** 33m



Fix: 811 **E:** 389869 **N:** 6081239 **Depth:** 33m

Station: TCC_119
Sediment Description:
Fix809: Fine sand with some shell fragments

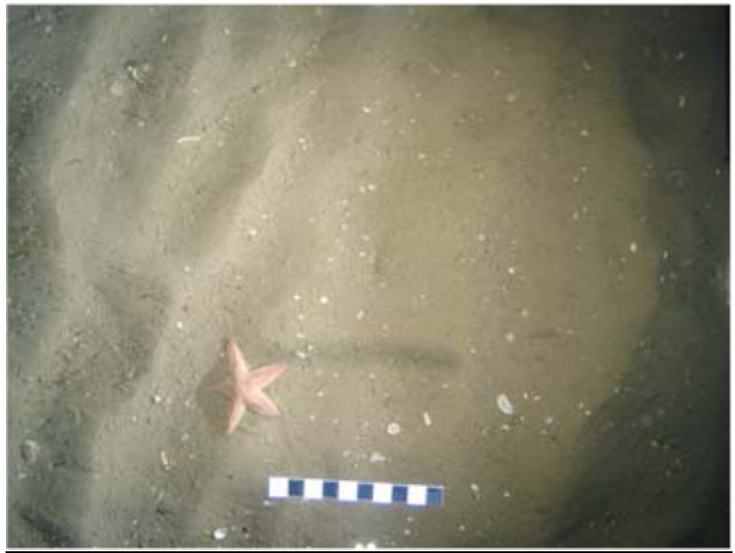
Fix811: Fine sand with some shell fragments

Fauna Description:
Fix809: Annelida (Polychaeta) - Polychaete tubes

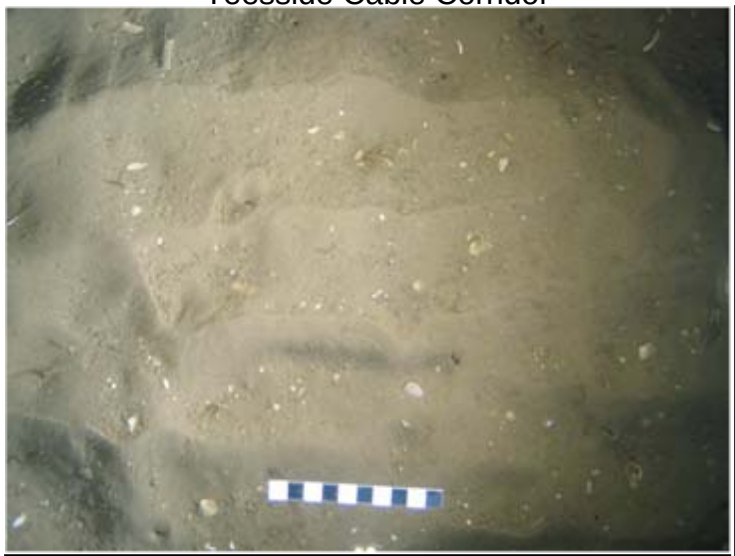
Fix811: Annelida (Polychaeta) - Polychaete tubes

APPENDIX B - SAMPLING AND SEABED IMAGERY

Teesside Cable Corridor



Fix: 794 **E:** 391490 **N:** 6081376 **Depth:** 30



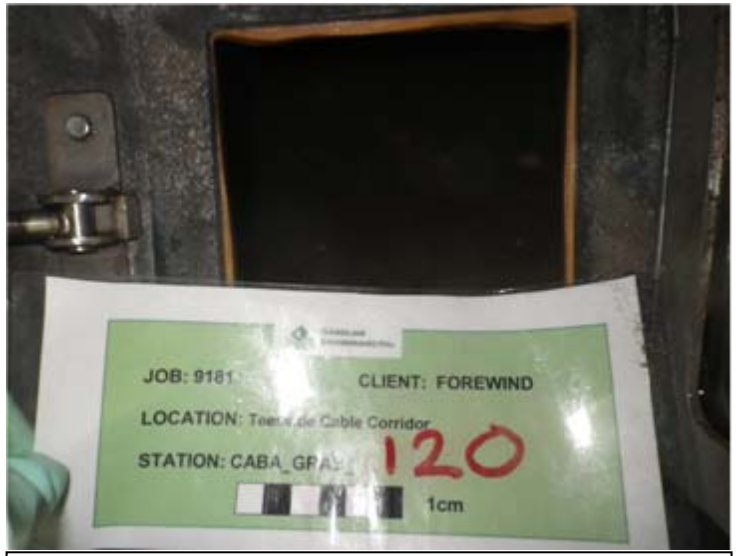
Fix: 802 **E:** 391467 **N:** 6081390 **Depth:** 30

Station: TCC_120
Sediment Description:
Fix794: Fine sand with some shell fragments

Fix802: Fine sand with some shell fragments

Fauna Description:
Fix794: Annelida (Polychaeta) - Polychaete tubes, Echinodermata - *Astropecten irregularis*

Fix802: Annelida (Polychaeta) - Polychaete tubes



Fix: 71 **E:** 391434 **N:** 6081345 **Depth:** 30

Fix: 71 **E:** 391434 **N:** 6081345 **Retention:** MF

Station: TCC_120
Sediment Description:
Grab: Fine sand with shells

Sieve: Shells and shell fragments

Fauna Description:
Grab: No visible fauna

Sieve: Annelida (Polychaeta)

APPENDIX C – PARTICLE SIZE ANALYSIS

Table C.1 **Tranche B Sediment Characteristics**
Table C.2 **Teesside Cable Corridor Sediment Characteristics**

APPENDIX C - PARTICLE SIZE ANALYSIS
Tranche B

Table C.1 Tranche B Sediment Characteristics

Station	Mean Diameter (µm)	Mean Diameter (phi)	Fines %	Sand %	Gravel %	Wentworth Classification (based on mean grain size)	Sorting[1]	Modified Folk Classification	Total Organic Carbon[2] (%)
TB_01	169.2	2.6	1.5	96.4	2	Fine Sand	Well	(g)S	<0.4
TB_02	169.9	2.6	1.7	92.6	5.7	Fine Sand	Moderate	gS	
TB_03	185.7	2.4	1.3	95.5	3.2	Fine Sand	Moderately Well	(g)S	
TB_04	175.6	2.5	1.4	95.4	3.2	Fine Sand	Well	(g)S	<0.4
TB_05	363.1	1.5	1.4	82.6	16.1	Medium Sand	Poor	gS	
TB_06	525.4	0.9	1.1	75.5	23.4	Coarse Sand	Very Poor	gS	<0.4
TB_07	172.9	2.5	1.1	95.4	3.4	Fine Sand	Moderately Well	(g)S	
TB_08	176	2.5	1	98.3	0.7	Fine Sand	Well	(g)S	
TB_09	161.3	2.6	1.3	96.2	2.5	Fine sand	Well	(g)S	
TB_10	179.5	2.5	1.3	97.3	1.5	Fine Sand	Well	(g)S	<0.4
TB_11	173.1	2.5	1.4	98.2	0.4	Fine Sand	Well	(g)S	
TB_12	377	1.4	1	82.9	16.1	Medium Sand	Very Poor	gS	
TB_13	176.3	2.5	1.3	95.5	3.2	Fine Sand	Moderately Well	(g)S	<0.4
TB_14	177.1	2.5	1.3	98.4	0.3	Fine Sand	Well	(g)S	
TB_15	177.2	2.5	0.9	95.1	4	Fine Sand	Moderately Well	(g)S	
TB_16	185.1	2.4	1.4	94.2	4.3	Fine Sand	Moderate	(g)S	
TB_17	405.6	1.3	1.3	81.9	16.8	Medium Sand	Very Poor	gS	<0.4
TB_18	174	2.5	1.1	96.2	2.7	Fine Sand	Moderately Well	(g)S	
TB_19	286.2	1.8	1.2	85	13.8	Medium Sand	Poor	gS	<0.4
TB_20	447.3	1.2	0.9	80.2	18.8	Medium Sand	Very Poor	gS	
TB_21	175.5	2.5	1.1	98.8	0.1	Fine Sand	Well	(g)S	
TB_22	174.5	2.5	1.2	98.6	0.3	Fine Sand	Well	(g)S	
TB_23	175.1	2.5	1.2	98.2	0.5	Fine Sand	Well	(g)S	
TB_24	196.6	2.3	1.9	90.4	7.7	Fine Sand	Poor	gS	
TB_25	176.2	2.5	1.3	95.2	3.6	Fine Sand	Moderately Well	(g)S	<0.4
TB_26	177	2.5	1.8	97.4	0.8	Fine Sand	Well	(g)S	
TB_27	188.2	2.4	1.2	98.7	0.2	Fine Sand	Well	(g)S	
TB_28	176.6	2.5	1.3	96.2	2.5	Fine Sand	Moderately Well	(g)S	
TB_29	178.9	2.5	0.9	95.2	3.9	Fine Sand	Moderately Well	(g)S	
TB_30	3373.2	-1.8	1.1	26.7	72.1	Very Fine Gravel	Very Poor	sG	
TB_32	180.2	2.5	1.1	98.6	0.3	Fine Sand	Well	(g)S	
TB_33	174.2	2.5	1.3	98.5	0.2	Fine Sand	Well	(g)S	<0.4
TB_34	172.5	2.5	1.6	97.8	0.6	Fine Sand	Well	(g)S	
TB_35	172.9	2.5	1.4	97	1.6	Fine Sand	Well	(g)S	
TB_36	205.1	2.3	1.5	89.2	9.3	Fine Sand	Poor	gS	<0.4
TB_37	198.7	2.3	3.7	86.1	10.1	Fine Sand	Poor	gS	
TB_38	175	2.5	1.6	96.7	1.7	Fine Sand	Well	(g)S	
TB_39	177.4	2.5	1.2	98.7	0.1	Fine Sand	Well	(g)S	
TB_40	178.5	2.5	1.3	98.2	0.4	Fine Sand	Well	(g)S	<0.4
TB_41	176.8	2.5	1	98.8	0.2	Fine Sand	Well	(g)S	
TB_42	174.9	2.5	1.6	97.1	1.3	Fine Sand	Well	(g)S	
TB_43	168.1	2.6	1.4	97.8	0.8	Fine Sand	Well	(g)S	
TB_44	177	2.5	1.3	98.4	0.3	Fine Sand	Well	(g)S	
TB_45	173.2	2.5	1.1	98	0.9	Fine Sand	Well	(g)S	
TB_46	176.5	2.5	1.2	97.9	0.9	Fine Sand	Well	(g)S	
TB_48	9100.6	-3.2	0.3	6.4	93.3	Medium Gravel	Poor	G	
TB_49	1865.6	-0.9	1.7	49.3	49	Very Coarse Sand	Very Poor	sG	
TB_50	9281.8	-3.2	0.3	18.1	81.6	Medium Gravel	Very Poor	G	
TB_51	169.4	2.6	1.5	98.2	0.3	Fine Sand	Well	(g)S	
TB_52	166.3	2.6	1.6	97.5	0.9	Fine Sand	Very Well	(g)S	
TB_53	3510.2	-1.8	7.2	20.4	72.4	Very Fine Gravel	Very Poor	msG	
Min	**161.3**	**-3.2**	**0.3**	**6.4**	**0.1**				**<0.4**
Max	**9281.8**	**2.6**	**7.2**	**98.8**	**93.3**	**Fine Sand to Medium Gravel**	**Very poor to Well**	**(g)S to G**	**<0.4**
Mean	**718.1**	**1.9**	**1.4**	**87.6**	**11**				**NC**
SD	**1855.3**	**1.4**	**0.9**	**22.3**	**22.1**				**NC**

Sediments were not treated to remove carbonates prior to analyses

1 Sorting according to Folk and Ward (1957)

2 Concentrations only available for 11 stations selected for physico-chemistry sampling

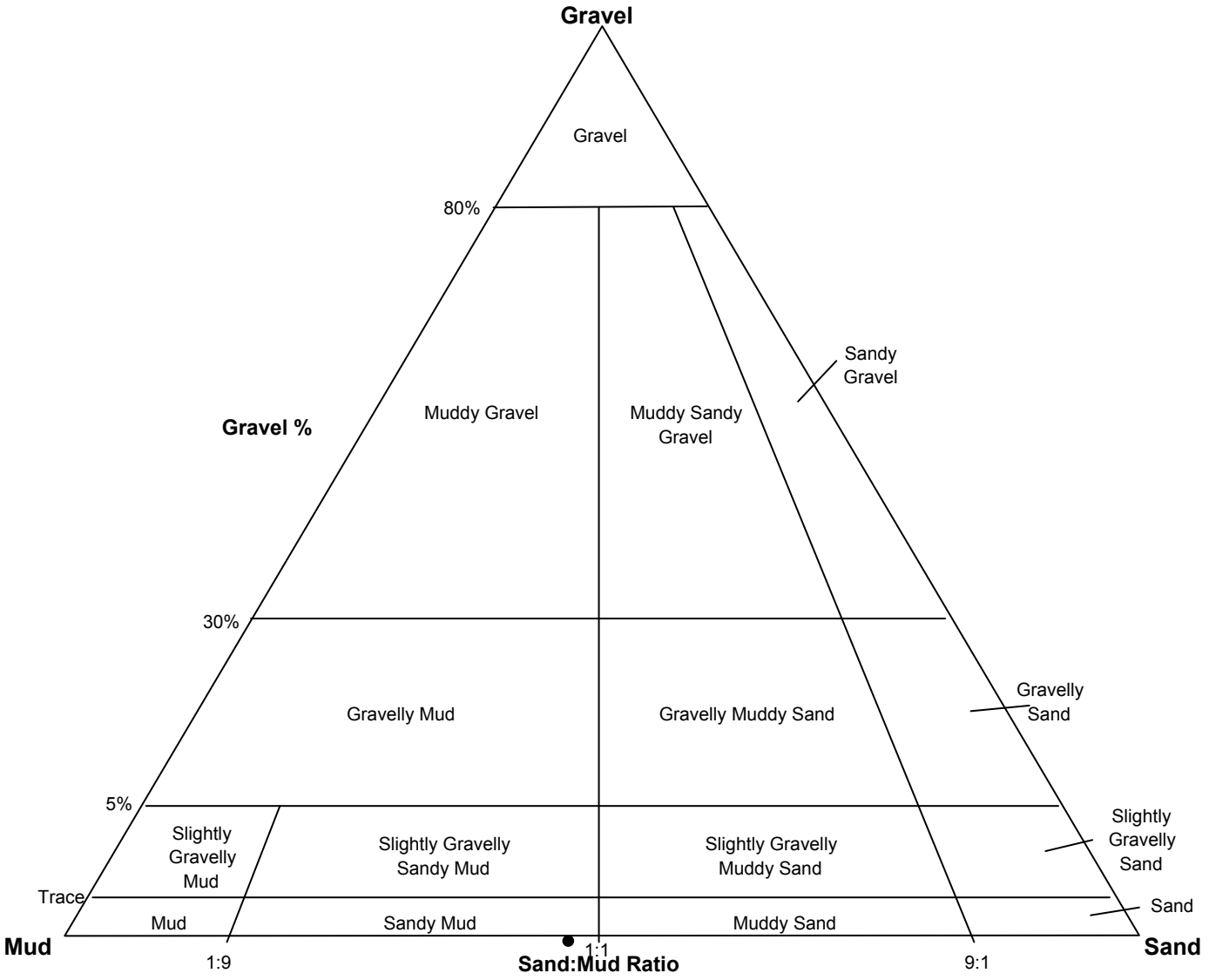
NC Not calculable

(g)S: slightly gravelly sand; gS: gravelly sand; sG: sandy gravel; G: gravel; msG: muddy sandy gravel

APPENDIX C - PARTICLE SIZE ANALYSIS

Tranche B

GRADISTAT MODIFIED FOLK TRIANGLE



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_01**

ANALYST & DATE: michelle.grey, 8/8/2012

SAMPLE TYPE: Unimodal, Well Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

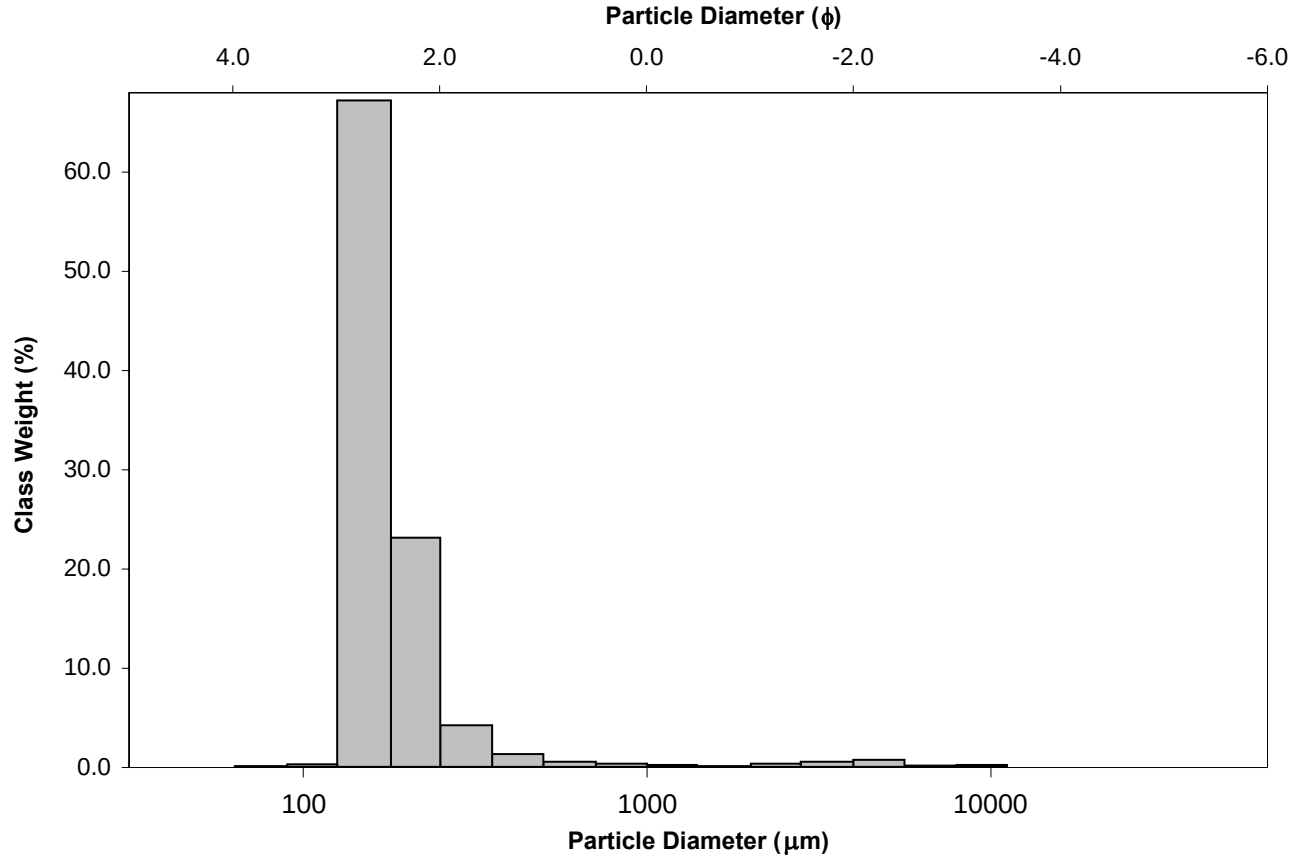
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	130.5	2.032
MEDIAN or D_{50}:	161.5	2.630
D_{90}:	244.5	2.938
(D_{90} / D_{10}):	1.874	1.446
(D_{90} - D_{10}):	114.0	0.906
(D_{75} / D_{25}):	1.370	1.192
(D_{75} - D_{25}):	52.31	0.454

GRAIN SIZE DISTRIBUTION

GRAVEL:	2.0%	COARSE SAND:	0.9%
SAND:	96.4%	MEDIUM SAND:	5.4%
MUD:	1.5%	FINE SAND:	89.5%
		V FINE SAND:	0.4%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.3%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.3%
MEDIUM GRAVEL:	0.3%	MEDIUM SILT:	0.3%
FINE GRAVEL:	0.9%	FINE SILT:	0.3%
V FINE GRAVEL:	0.9%	V FINE SILT:	0.3%
V COARSE SAND:	0.3%	CLAY:	0.3%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	274.9	175.1	2.514	169.2	2.563	Fine Sand
SORTING (σ):	719.8	1.935	0.952	1.316	0.396	Well Sorted
SKEWNESS (Sk):	8.950	1.021	-1.021	0.394	-0.394	Very Coarse Skewed
KURTOSIS (K):	94.85	20.38	20.38	1.276	1.276	Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_02**

ANALYST & DATE: michelle.grey, 8/8/2012

SAMPLE TYPE: Unimodal, Moderately Sorted

TEXTURAL GROUP: Gravelly Sand

SEDIMENT NAME: Fine Gravelly Fine Sand

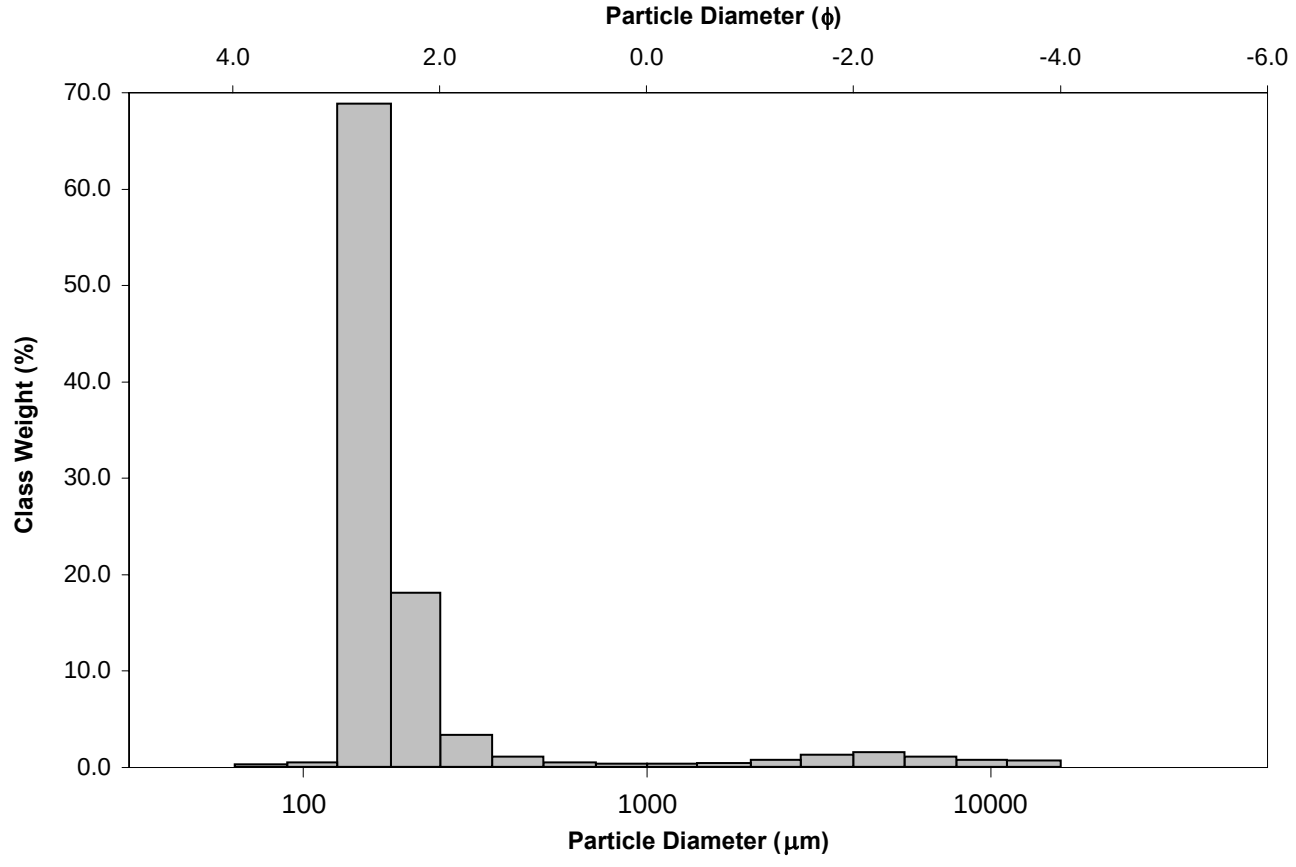
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	130.0	1.777
MEDIAN or D_{50}:	160.3	2.641
D_{90}:	291.7	2.943
(D_{90} / D_{10}):	2.244	1.656
(D_{90} - D_{10}):	161.7	1.166
(D_{75} / D_{25}):	1.356	1.184
(D_{75} - D_{25}):	50.01	0.439

GRAIN SIZE DISTRIBUTION

GRAVEL:	5.7%	COARSE SAND:	0.8%
SAND:	92.6%	MEDIUM SAND:	4.2%
MUD:	1.7%	FINE SAND:	86.1%
		V FINE SAND:	0.8%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.3%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.3%
MEDIUM GRAVEL:	1.3%	MEDIUM SILT:	0.3%
FINE GRAVEL:	2.5%	FINE SILT:	0.3%
V FINE GRAVEL:	1.9%	V FINE SILT:	0.3%
V COARSE SAND:	0.8%	CLAY:	0.3%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	518.7	195.5	2.355	169.9	2.557	Fine Sand
SORTING (σ):	1588.3	2.603	1.380	1.825	0.868	Moderately Sorted
SKEWNESS (Sk):	5.685	1.890	-1.890	0.588	-0.588	Very Coarse Skewed
KURTOSIS (K):	38.97	11.51	11.51	4.169	4.169	Extremely Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_03**

ANALYST & DATE: michelle.grey, 8/8/2012

SAMPLE TYPE: Unimodal, Moderately Well Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Medium Gravelly Fine Sand

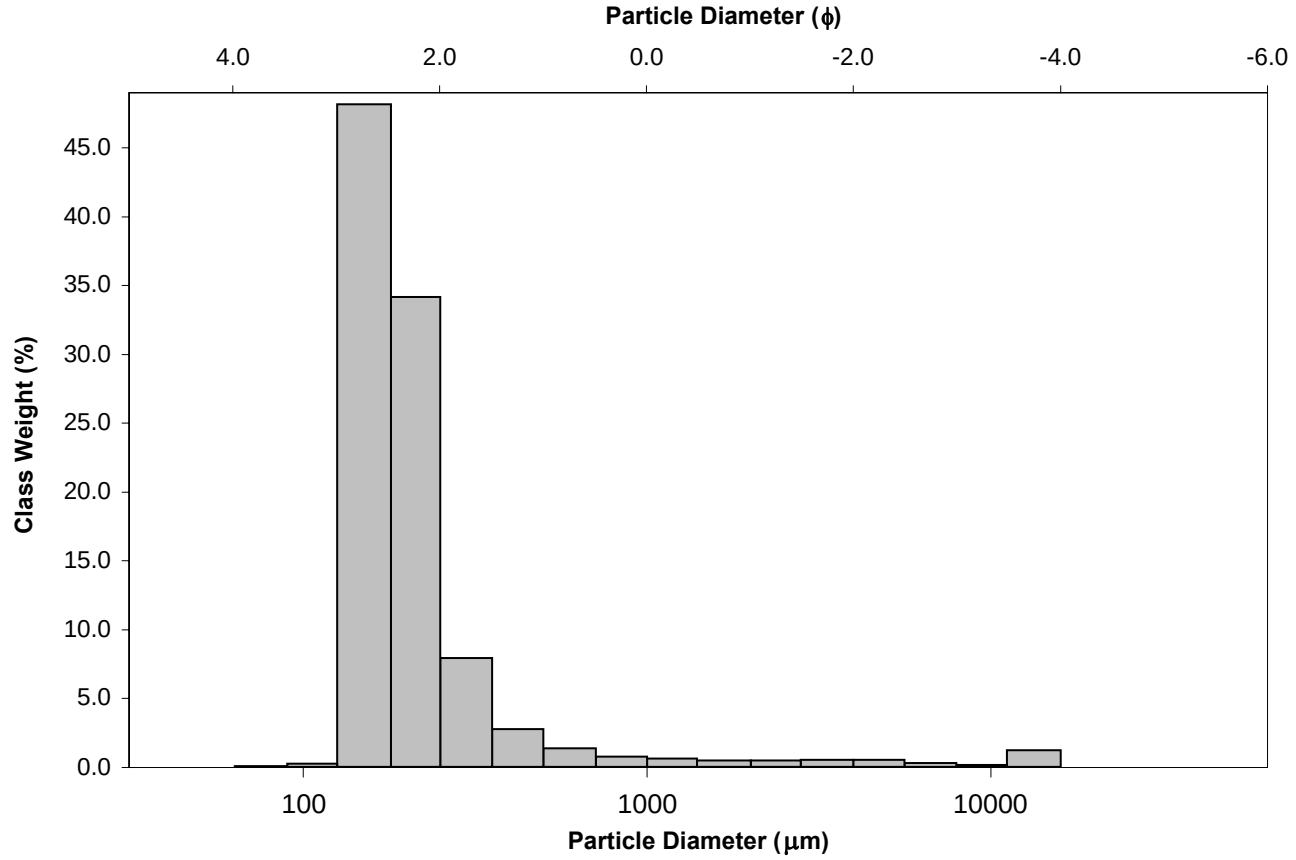
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	132.9	1.562
MEDIAN or D_{50}:	178.1	2.489
D_{90}:	338.7	2.912
(D_{90} / D_{10}):	2.549	1.864
(D_{90} - D_{10}):	205.8	1.350
(D_{75} / D_{25}):	1.549	1.297
(D_{75} - D_{25}):	81.35	0.631

GRAIN SIZE DISTRIBUTION

GRAVEL:	3.2%	COARSE SAND:	2.1%
SAND:	95.5%	MEDIUM SAND:	10.5%
MUD:	1.3%	FINE SAND:	81.6%
		V FINE SAND:	0.3%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.2%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.2%
MEDIUM GRAVEL:	1.4%	MEDIUM SILT:	0.2%
FINE GRAVEL:	0.8%	FINE SILT:	0.2%
V FINE GRAVEL:	0.9%	V FINE SILT:	0.2%
V COARSE SAND:	1.0%	CLAY:	0.2%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	468.0	207.7	2.268	185.7	2.429	Fine Sand
SORTING (σ):	1629.7	2.279	1.188	1.511	0.595	Moderately Well Sorted
SKEWNESS (Sk):	7.126	1.958	-1.958	0.406	-0.406	Very Coarse Skewed
KURTOSIS (K):	55.19	15.68	15.68	1.588	1.588	Very Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_04**

ANALYST & DATE: michelle.grey, 8/8/2012

SAMPLE TYPE: Unimodal, Well Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Fine Gravelly Fine Sand

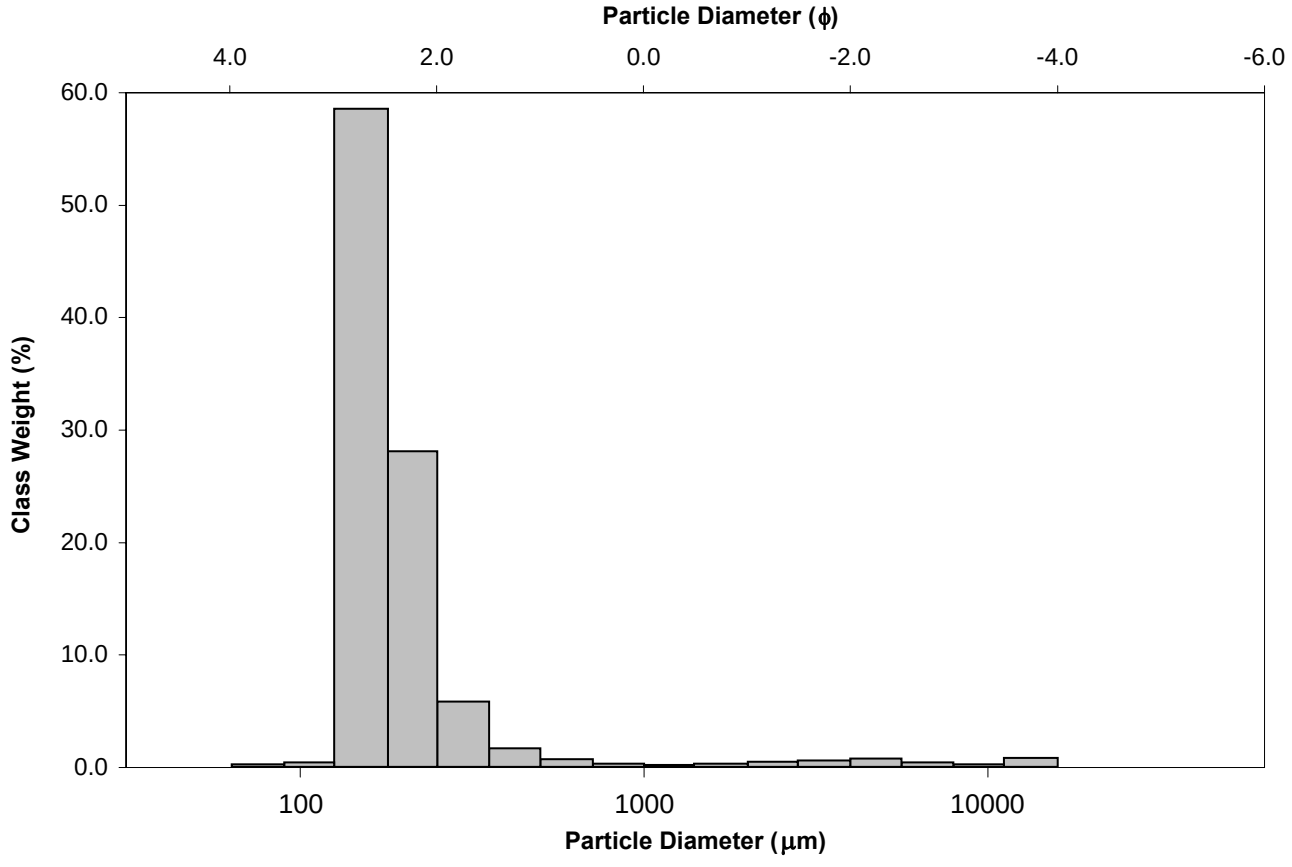
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	131.2	1.823
MEDIAN or D_{50}:	167.3	2.579
D_{90}:	282.6	2.930
(D_{90} / D_{10}):	2.154	1.607
(D_{90} - D_{10}):	151.4	1.107
(D_{75} / D_{25}):	1.476	1.251
(D_{75} - D_{25}):	68.40	0.562

GRAIN SIZE DISTRIBUTION

GRAVEL:	3.2%	COARSE SAND:	0.9%
SAND:	95.4%	MEDIUM SAND:	7.4%
MUD:	1.4%	FINE SAND:	85.9%
		V FINE SAND:	0.7%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.2%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.2%
MEDIUM GRAVEL:	1.0%	MEDIUM SILT:	0.2%
FINE GRAVEL:	1.2%	FINE SILT:	0.2%
V FINE GRAVEL:	1.0%	V FINE SILT:	0.2%
V COARSE SAND:	0.5%	CLAY:	0.2%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	410.8	191.6	2.384	175.6	2.510	Fine Sand
SORTING (σ):	1416.6	2.200	1.138	1.399	0.484	Well Sorted
SKEWNESS (Sk):	7.627	2.038	-2.038	0.418	-0.418	Very Coarse Skewed
KURTOSIS (K):	65.45	17.27	17.27	1.363	1.363	Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_05**

ANALYST & DATE: michelle.grey, 8/8/2012

SAMPLE TYPE: Unimodal, Poorly Sorted

TEXTURAL GROUP: Gravelly Sand

SEDIMENT NAME: Fine Gravelly Fine Sand

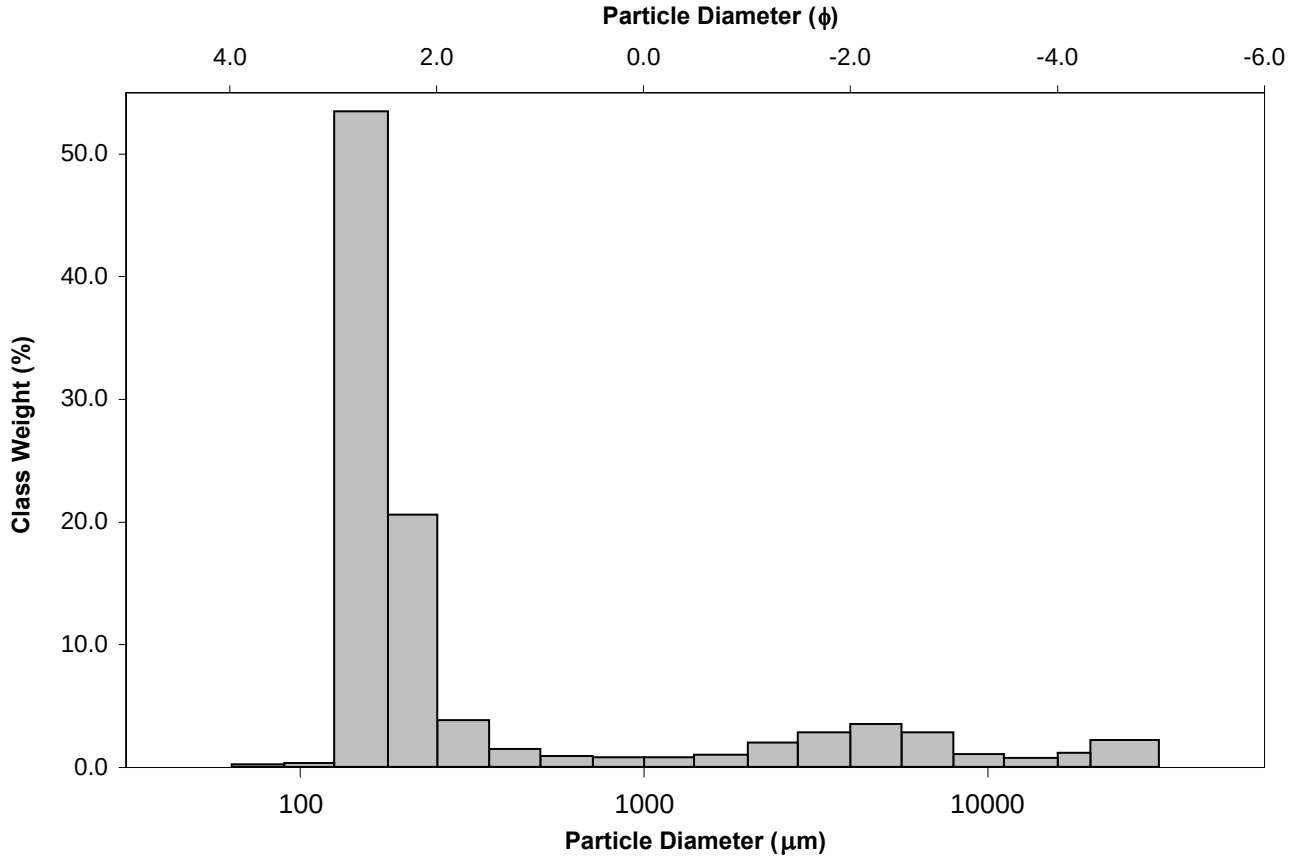
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	131.9	-2.203
MEDIAN or D_{50}:	172.3	2.537
D_{90}:	4604.5	2.922
(D_{90} / D_{10}):	34.90	-1.326
(D_{90} - D_{10}):	4472.6	5.125
(D_{75} / D_{25}):	1.700	1.380
(D_{75} - D_{25}):	102.0	0.765

GRAIN SIZE DISTRIBUTION

GRAVEL:	16.1%	COARSE SAND:	1.6%
SAND:	82.6%	MEDIUM SAND:	5.1%
MUD:	1.4%	FINE SAND:	73.6%
		V FINE SAND:	0.6%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.2%
COARSE GRAVEL:	3.5%	COARSE SILT:	0.2%
MEDIUM GRAVEL:	1.7%	MEDIUM SILT:	0.2%
FINE GRAVEL:	6.1%	FINE SILT:	0.2%
V FINE GRAVEL:	4.7%	V FINE SILT:	0.2%
V COARSE SAND:	1.7%	CLAY:	0.2%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	1719.8	313.8	1.672	363.1	1.462	Medium Sand
SORTING (σ):	4784.5	4.398	2.137	3.719	1.895	Poorly Sorted
SKEWNESS (Sk):	4.023	1.464	-1.464	0.845	-0.845	Very Coarse Skewed
KURTOSIS (K):	19.27	4.865	4.865	3.268	3.268	Extremely Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_06**

ANALYST & DATE: michelle.grey, 8/8/2012

SAMPLE TYPE: Unimodal, Very Poorly Sorted

TEXTURAL GROUP: Gravelly Sand

SEDIMENT NAME: Medium Gravelly Fine Sand

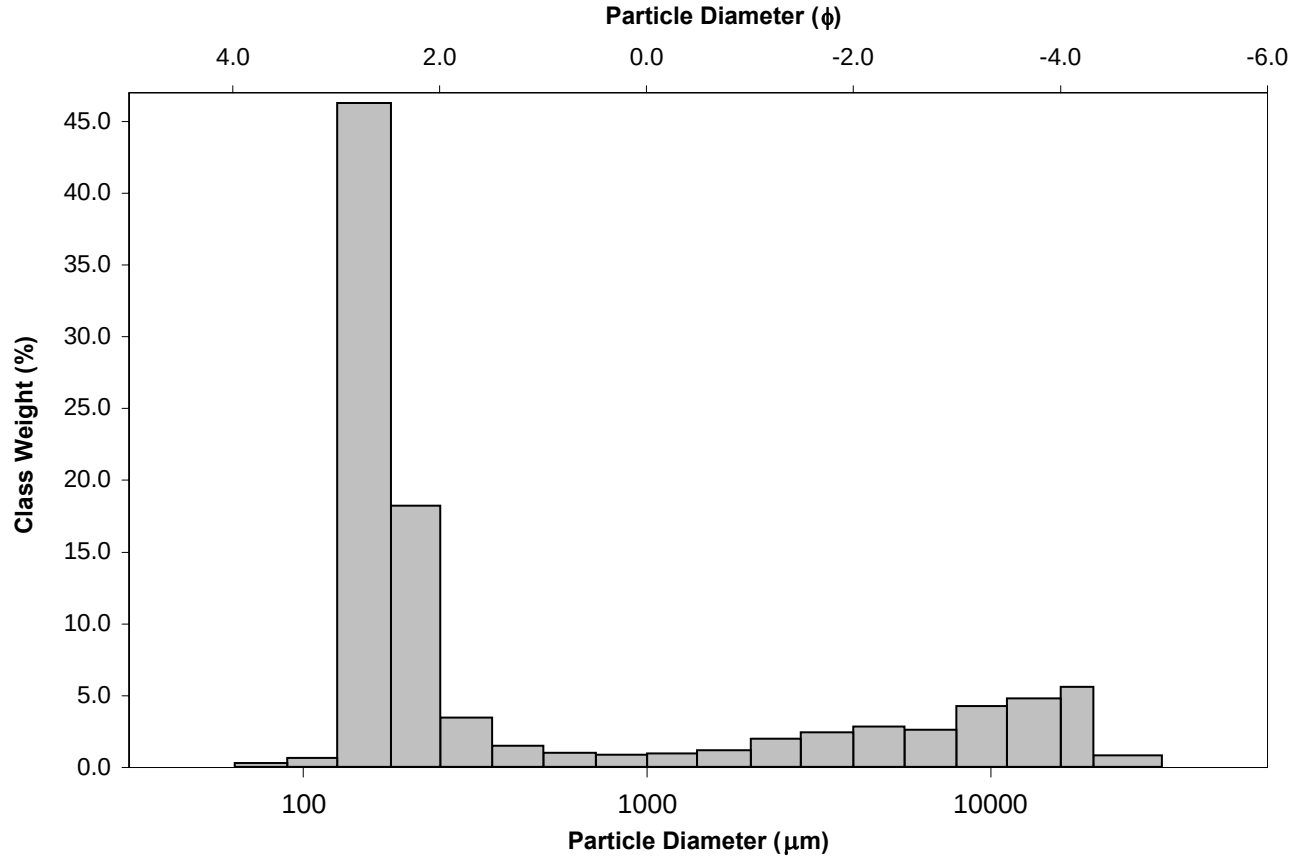
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	132.8	-3.427
MEDIAN or D_{50}:	179.4	2.479
D_{90}:	10755.4	2.913
(D_{90} / D_{10}):	81.02	-0.850
(D_{90} - D_{10}):	10622.6	6.340
(D_{75} / D_{25}):	8.380	-8.688
(D_{75} - D_{25}):	1096.8	3.067

GRAIN SIZE DISTRIBUTION

GRAVEL:	23.4%	COARSE SAND:	1.8%
SAND:	75.5%	MEDIUM SAND:	4.9%
MUD:	1.1%	FINE SAND:	65.7%
		V FINE SAND:	0.9%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.2%
COARSE GRAVEL:	4.6%	COARSE SILT:	0.2%
MEDIUM GRAVEL:	9.0%	MEDIUM SILT:	0.2%
FINE GRAVEL:	5.4%	FINE SILT:	0.2%
V FINE GRAVEL:	4.4%	V FINE SILT:	0.2%
V COARSE SAND:	2.2%	CLAY:	0.2%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	2590.3	441.7	1.179	525.4	0.928	Coarse Sand
SORTING (σ):	5193.8	5.684	2.507	5.268	2.397	Very Poorly Sorted
SKEWNESS (Sk):	2.367	1.038	-1.038	0.861	-0.861	Very Coarse Skewed
KURTOSIS (K):	8.057	2.885	2.885	0.926	0.926	Mesokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_07** ANALYST & DATE: michelle.grey, 8/8/2012

SAMPLE TYPE: Unimodal, Moderately Well Sorted TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

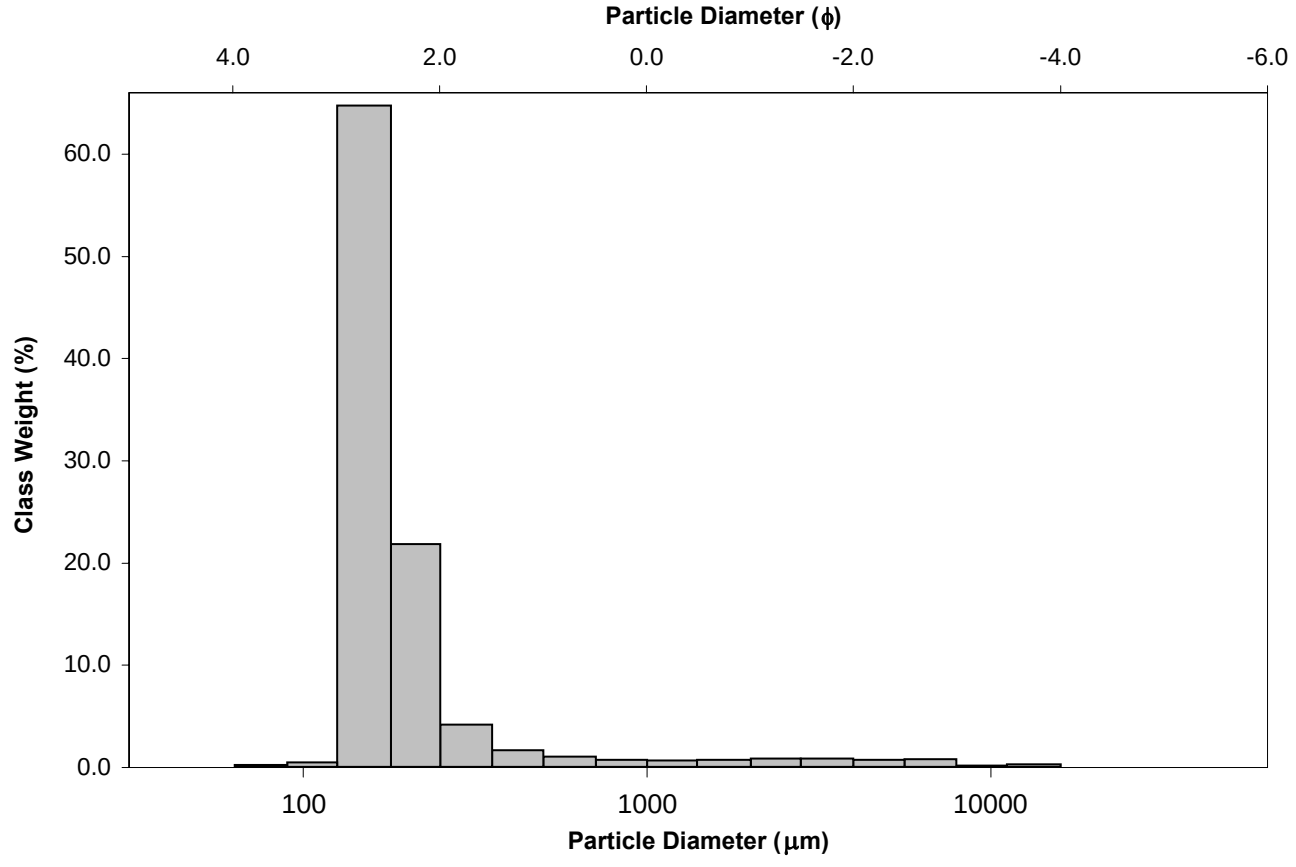
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	130.8	1.751
MEDIAN or D_{50}:	163.1	2.616
D_{90}:	297.1	2.935
(D_{90} / D_{10}):	2.272	1.676
(D_{90} - D_{10}):	166.3	1.184
(D_{75} / D_{25}):	1.423	1.221
(D_{75} - D_{25}):	60.14	0.509

GRAIN SIZE DISTRIBUTION

GRAVEL:	3.4%	COARSE SAND:	1.6%
SAND:	95.4%	MEDIUM SAND:	5.7%
MUD:	1.1%	FINE SAND:	86.2%
		V FINE SAND:	0.7%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.2%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.2%
MEDIUM GRAVEL:	0.4%	MEDIUM SILT:	0.2%
FINE GRAVEL:	1.4%	FINE SILT:	0.2%
V FINE GRAVEL:	1.6%	V FINE SILT:	0.2%
V COARSE SAND:	1.3%	CLAY:	0.2%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	375.1	192.1	2.380	172.9	2.532	Fine Sand
SORTING (σ):	1099.5	2.184	1.127	1.535	0.618	Moderately Well Sorted
SKEWNESS (Sk):	7.820	1.946	-1.946	0.530	-0.530	Very Coarse Skewed
KURTOSIS (K):	76.22	14.63	14.63	2.230	2.230	Very Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_08**

ANALYST & DATE: michelle.grey, 8/8/2012

SAMPLE TYPE: Unimodal, Well Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

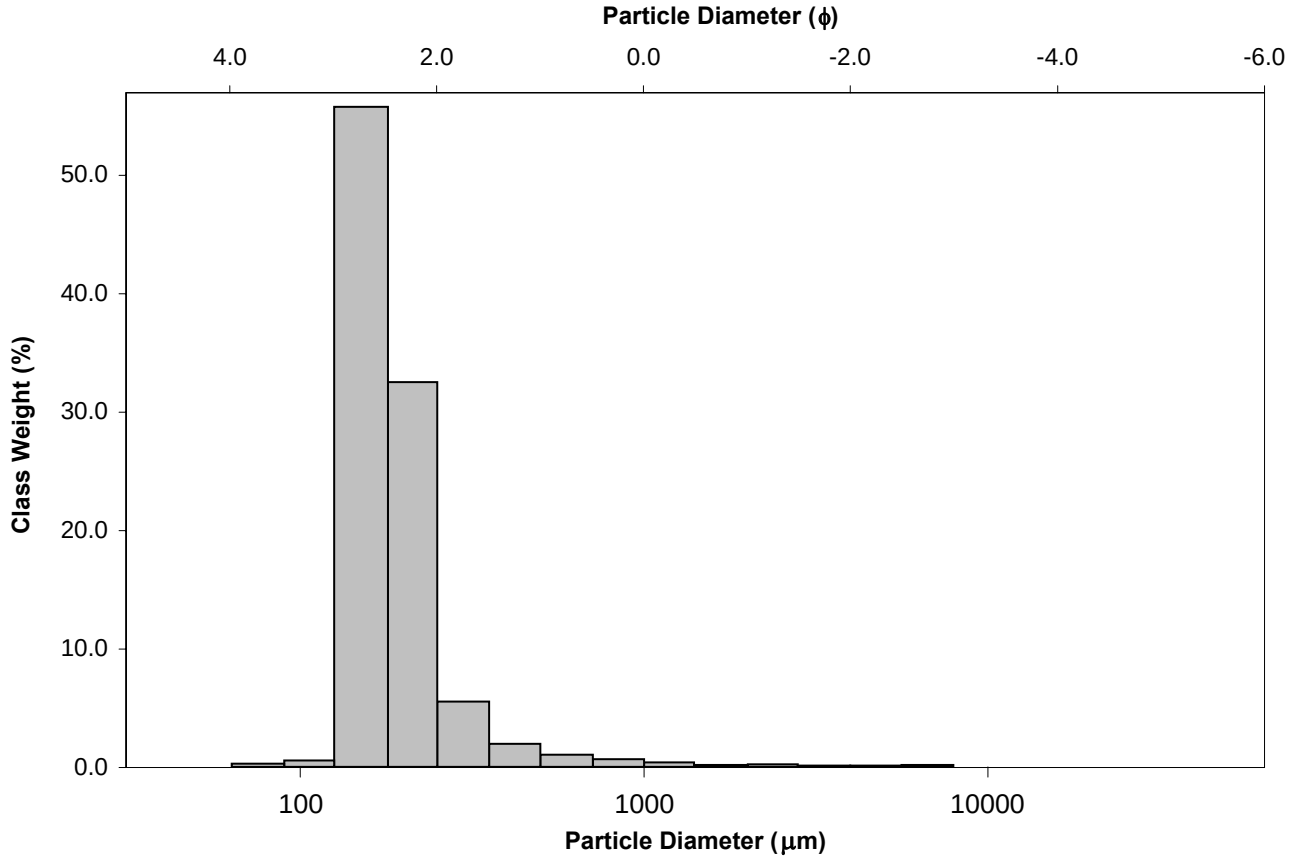
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	131.7	1.967
MEDIAN or D_{50}:	169.6	2.560
D_{90}:	255.8	2.925
(D_{90} / D_{10}):	1.943	1.487
(D_{90} - D_{10}):	124.1	0.958
(D_{75} / D_{25}):	1.473	1.251
(D_{75} - D_{25}):	68.46	0.559

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.7%	COARSE SAND:	1.6%
SAND:	98.3%	MEDIUM SAND:	7.4%
MUD:	1.0%	FINE SAND:	87.9%
		V FINE SAND:	0.8%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.2%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.2%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	0.2%
FINE GRAVEL:	0.3%	FINE SILT:	0.2%
V FINE GRAVEL:	0.4%	V FINE SILT:	0.2%
V COARSE SAND:	0.6%	CLAY:	0.2%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	229.2	181.5	2.462	176.0	2.506	Fine Sand
SORTING (σ):	395.4	1.695	0.761	1.335	0.417	Well Sorted
SKEWNESS (Sk):	12.40	0.070	-0.070	0.322	-0.322	Very Coarse Skewed
KURTOSIS (K):	181.2	23.70	23.70	1.073	1.073	Mesokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_09**

ANALYST & DATE: michelle.grey, 8/8/2012

SAMPLE TYPE: Unimodal, Well Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

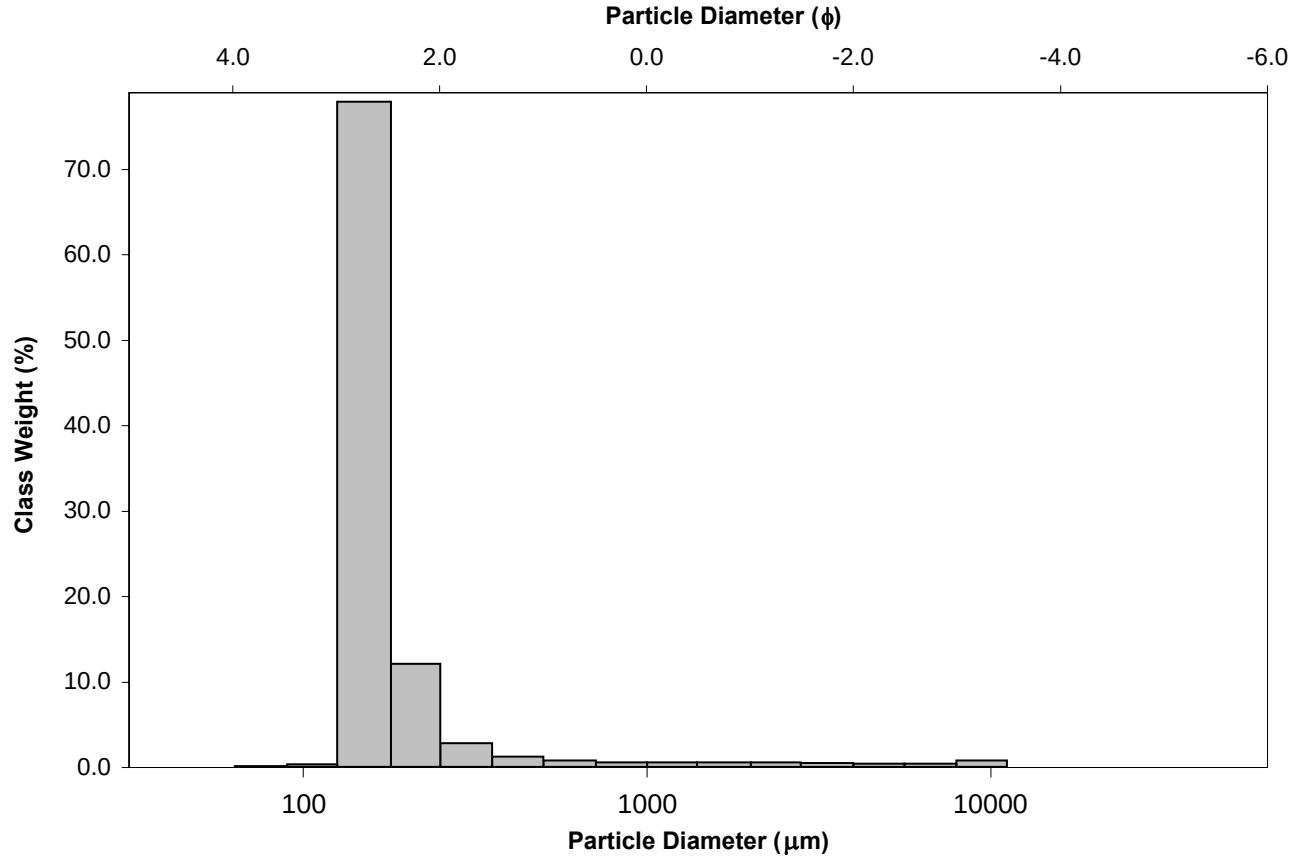
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	129.9	2.055
MEDIAN or D_{50}:	156.4	2.677
D_{90}:	240.6	2.945
(D_{90} / D_{10}):	1.852	1.433
(D_{90} - D_{10}):	110.7	0.889
(D_{75} / D_{25}):	1.261	1.133
(D_{75} - D_{25}):	36.38	0.335

GRAIN SIZE DISTRIBUTION

GRAVEL:	2.5%	COARSE SAND:	1.3%
SAND:	96.2%	MEDIUM SAND:	3.8%
MUD:	1.3%	FINE SAND:	89.5%
		V FINE SAND:	0.4%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.2%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.2%
MEDIUM GRAVEL:	0.7%	MEDIUM SILT:	0.2%
FINE GRAVEL:	0.8%	FINE SILT:	0.2%
V FINE GRAVEL:	1.0%	V FINE SILT:	0.2%
V COARSE SAND:	1.1%	CLAY:	0.2%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	323.6	175.9	2.507	161.3	2.632	Fine Sand
SORTING (σ):	973.3	2.064	1.045	1.359	0.443	Well Sorted
SKEWNESS (Sk):	7.746	1.924	-1.924	0.460	-0.460	Very Coarse Skewed
KURTOSIS (K):	67.36	18.14	18.14	2.386	2.386	Very Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_10**

ANALYST & DATE: michelle.grey, 8/8/2012

SAMPLE TYPE: Unimodal, Well Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Coarse Gravelly Fine Sand

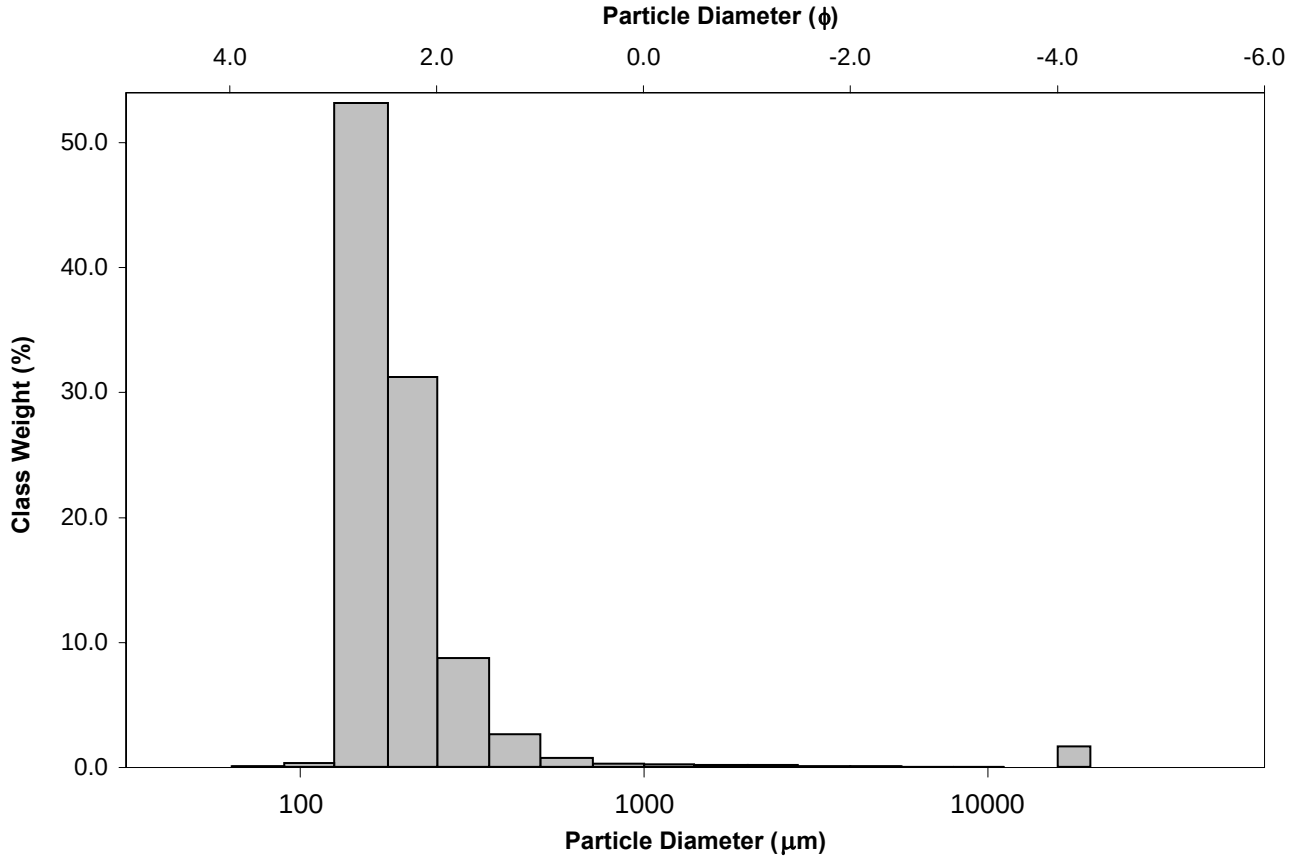
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	132.1	1.763
MEDIAN or D_{50}:	172.1	2.539
D_{90}:	294.6	2.920
(D_{90} / D_{10}):	2.230	1.656
(D_{90} - D_{10}):	162.5	1.157
(D_{75} / D_{25}):	1.515	1.275
(D_{75} - D_{25}):	75.14	0.599

GRAIN SIZE DISTRIBUTION

GRAVEL:	1.5%	COARSE SAND:	1.0%
SAND:	97.3%	MEDIUM SAND:	11.2%
MUD:	1.3%	FINE SAND:	84.3%
		V FINE SAND:	0.4%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.2%
COARSE GRAVEL:	1.0%	COARSE SILT:	0.2%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	0.2%
FINE GRAVEL:	0.1%	FINE SILT:	0.2%
V FINE GRAVEL:	0.3%	V FINE SILT:	0.2%
V COARSE SAND:	0.4%	CLAY:	0.2%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	399.5	189.4	2.400	179.5	2.478	Fine Sand
SORTING (σ):	1820.3	2.001	1.001	1.359	0.442	Well Sorted
SKEWNESS (Sk):	9.362	2.205	-2.205	0.333	-0.333	Very Coarse Skewed
KURTOSIS (K):	90.02	26.78	26.78	1.058	1.058	Mesokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_11**

ANALYST & DATE: michelle.grey, 8/8/2012

SAMPLE TYPE: Unimodal, Well Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

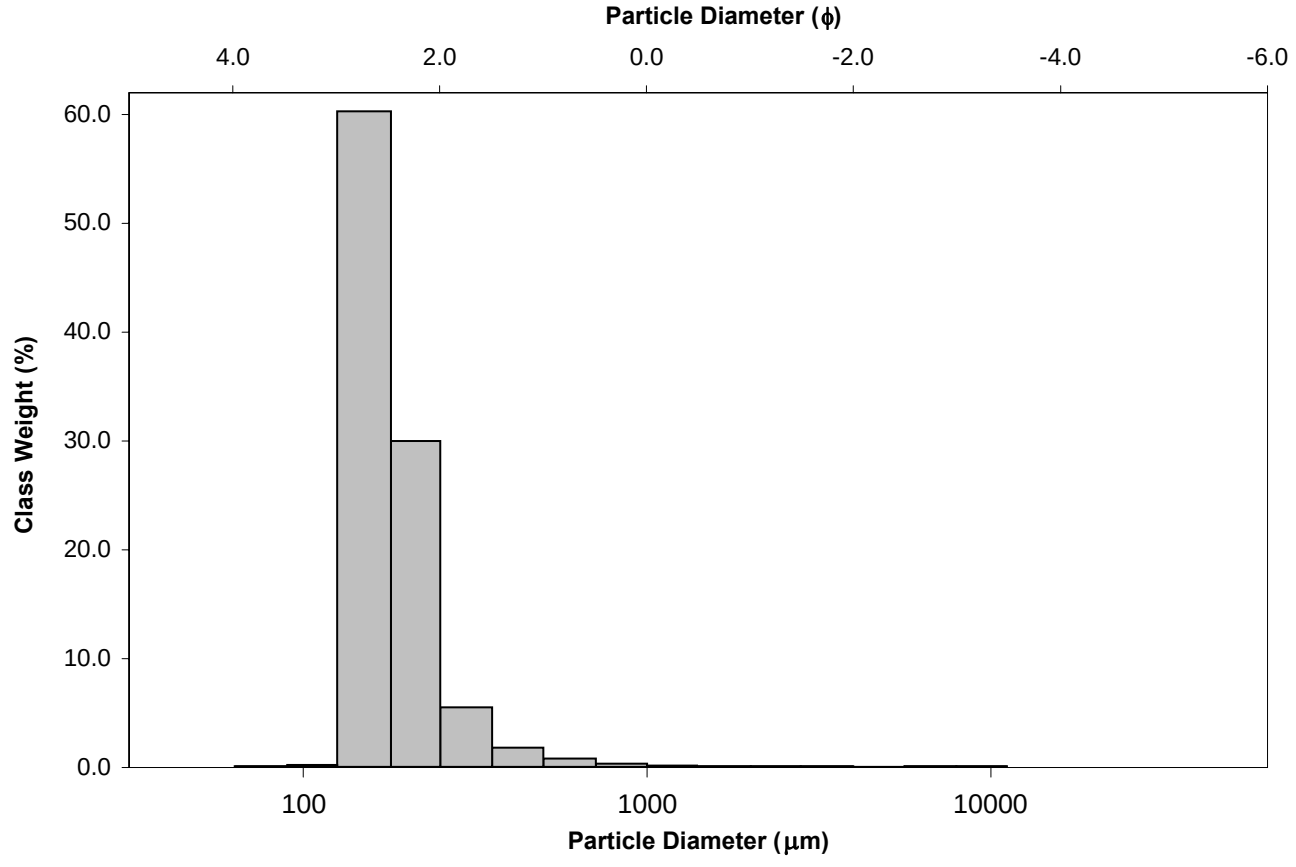
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	131.3	2.020
MEDIAN or D_{50}:	166.2	2.589
D_{90}:	246.6	2.929
(D_{90} / D_{10}):	1.879	1.450
(D_{90} - D_{10}):	115.3	0.910
(D_{75} / D_{25}):	1.439	1.231
(D_{75} - D_{25}):	62.93	0.525

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.4%	COARSE SAND:	1.0%
SAND:	98.2%	MEDIUM SAND:	7.2%
MUD:	1.4%	FINE SAND:	89.5%
		V FINE SAND:	0.3%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.2%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.2%
MEDIUM GRAVEL:	0.1%	MEDIUM SILT:	0.2%
FINE GRAVEL:	0.1%	FINE SILT:	0.2%
V FINE GRAVEL:	0.2%	V FINE SILT:	0.2%
V COARSE SAND:	0.2%	CLAY:	0.2%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	211.3	173.1	2.530	173.1	2.530	Fine Sand
SORTING (σ):	391.0	1.671	0.741	1.311	0.391	Well Sorted
SKEWNESS (Sk):	18.32	-1.352	1.352	0.329	-0.329	Very Coarse Skewed
KURTOSIS (K):	385.7	27.90	27.90	1.040	1.040	Mesokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_12**

ANALYST & DATE: michelle.grey, 8/8/2012

SAMPLE TYPE: Bimodal, Very Poorly Sorted

TEXTURAL GROUP: Gravelly Sand

SEDIMENT NAME: Coarse Gravelly Fine Sand

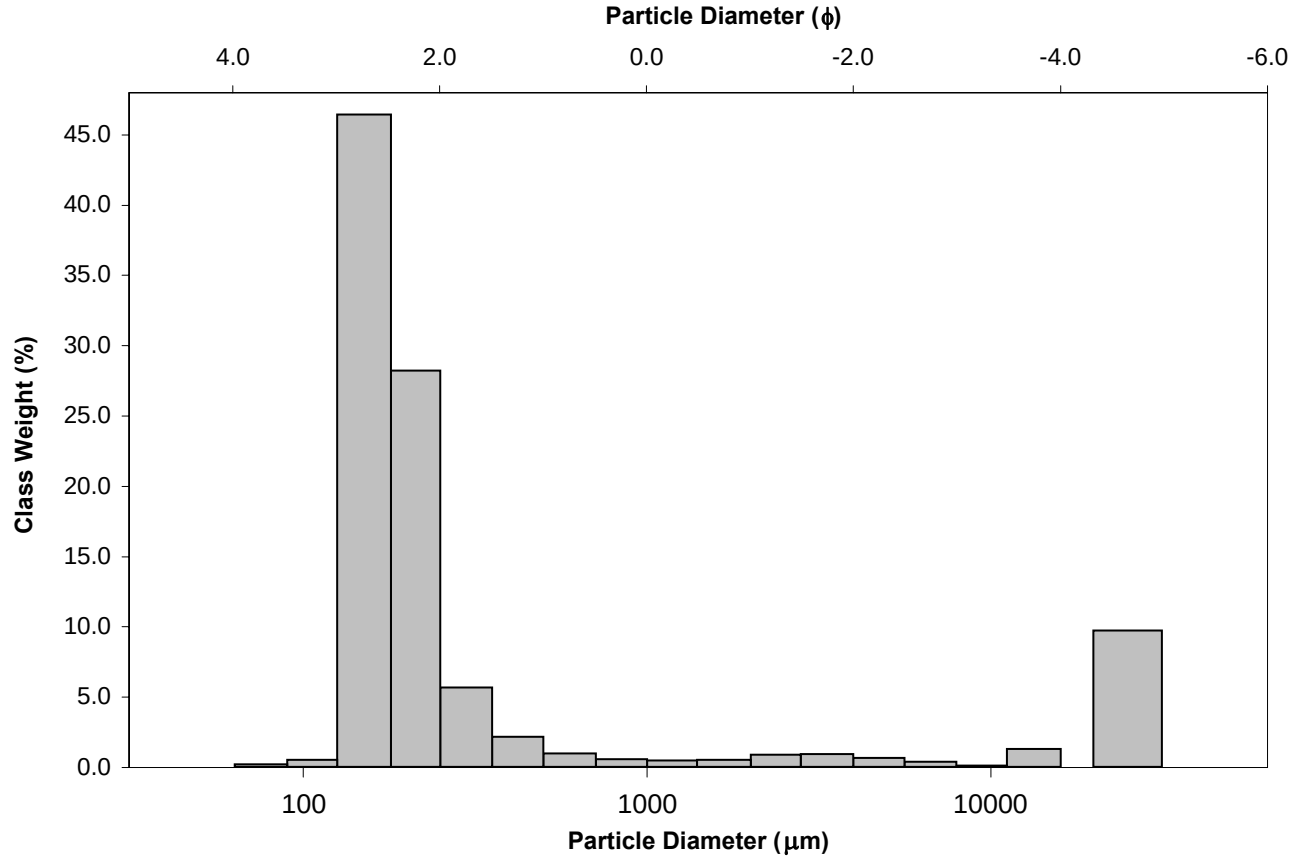
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:	25750.0	-4.650
MODE 3:		
D_{10}:	133.3	-4.437
MEDIAN or D_{50}:	183.8	2.444
D_{90}:	21655.4	2.907
(D_{90} / D_{10}):	162.4	-0.655
(D_{90} - D_{10}):	21522.1	7.343
(D_{75} / D_{25}):	1.785	1.439
(D_{75} - D_{25}):	117.7	0.836

GRAIN SIZE DISTRIBUTION

GRAVEL:	16.1%	COARSE SAND:	1.5%
SAND:	82.9%	MEDIUM SAND:	7.6%
MUD:	1.0%	FINE SAND:	72.2%
		V FINE SAND:	0.7%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.2%
COARSE GRAVEL:	12.1%	COARSE SILT:	0.2%
MEDIUM GRAVEL:	1.3%	MEDIUM SILT:	0.2%
FINE GRAVEL:	1.0%	FINE SILT:	0.2%
V FINE GRAVEL:	1.7%	V FINE SILT:	0.2%
V COARSE SAND:	0.9%	CLAY:	0.2%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	3577.5	376.6	1.409	377.0	1.407	Medium Sand
SORTING (σ):	8394.1	5.846	2.547	4.399	2.137	Very Poorly Sorted
SKEWNESS (Sk):	2.201	1.613	-1.613	0.831	-0.831	Very Coarse Skewed
KURTOSIS (K):	5.949	4.462	4.462	3.761	3.761	Extremely Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_13**

ANALYST & DATE: michelle.grey, 8/8/2012

SAMPLE TYPE: Unimodal, Moderately Well Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Fine Gravelly Fine Sand

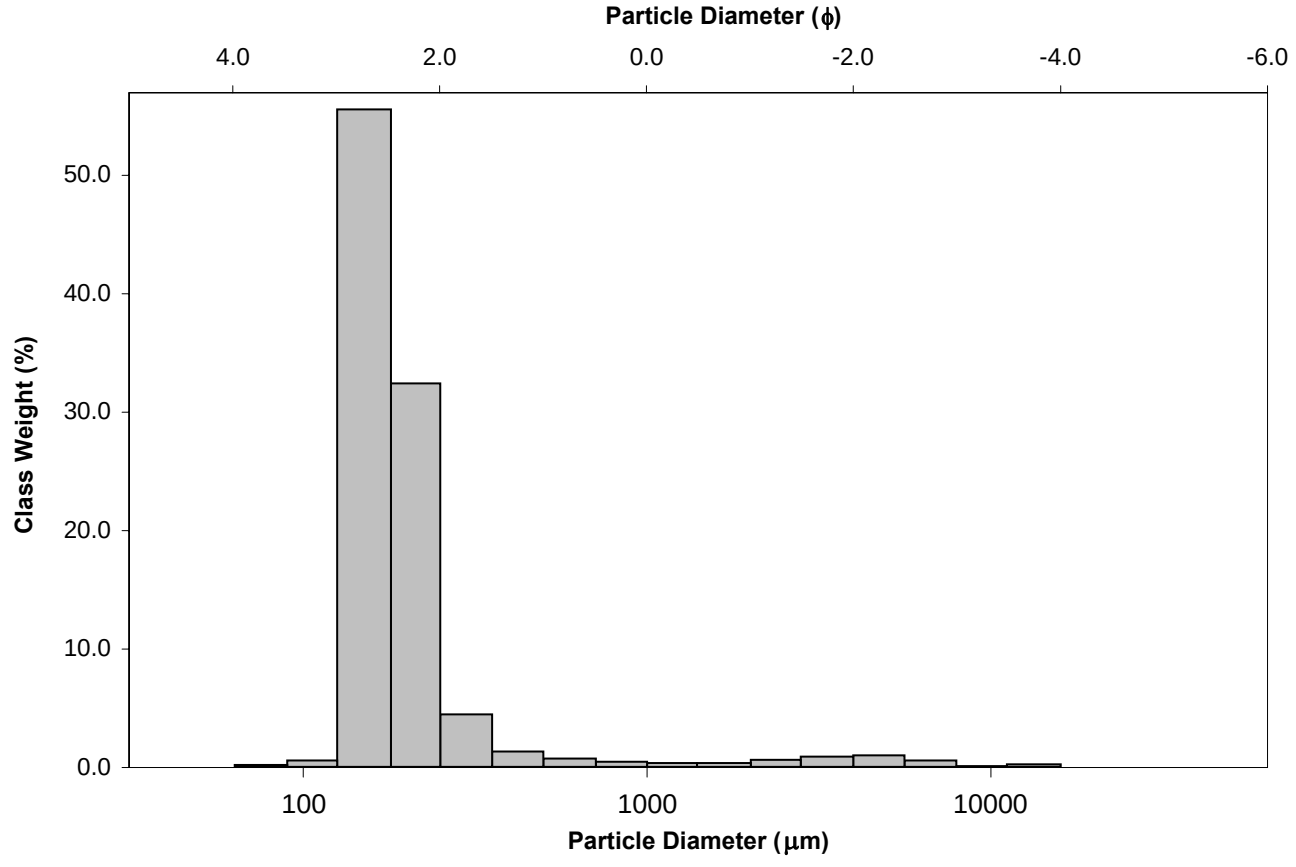
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	131.6	1.915
MEDIAN or D_{50}:	169.8	2.558
D_{90}:	265.3	2.926
(D_{90} / D_{10}):	2.016	1.528
(D_{90} - D_{10}):	133.7	1.012
(D_{75} / D_{25}):	1.478	1.253
(D_{75} - D_{25}):	69.18	0.564

GRAIN SIZE DISTRIBUTION

GRAVEL:	3.2%	COARSE SAND:	1.2%
SAND:	95.5%	MEDIUM SAND:	5.7%
MUD:	1.3%	FINE SAND:	87.3%
		V FINE SAND:	0.6%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.2%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.2%
MEDIUM GRAVEL:	0.3%	MEDIUM SILT:	0.2%
FINE GRAVEL:	1.4%	FINE SILT:	0.2%
V FINE GRAVEL:	1.4%	V FINE SILT:	0.2%
V COARSE SAND:	0.7%	CLAY:	0.2%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	350.9	192.0	2.381	176.3	2.504	Fine Sand
SORTING (σ):	1002.9	2.114	1.080	1.416	0.501	Moderately Well Sorted
SKEWNESS (Sk):	8.348	1.652	-1.652	0.397	-0.397	Very Coarse Skewed
KURTOSIS (K):	88.97	16.13	16.13	1.461	1.461	Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_14**

ANALYST & DATE: michelle.grey, 8/9/2012

SAMPLE TYPE: Unimodal, Well Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Fine Gravelly Fine Sand

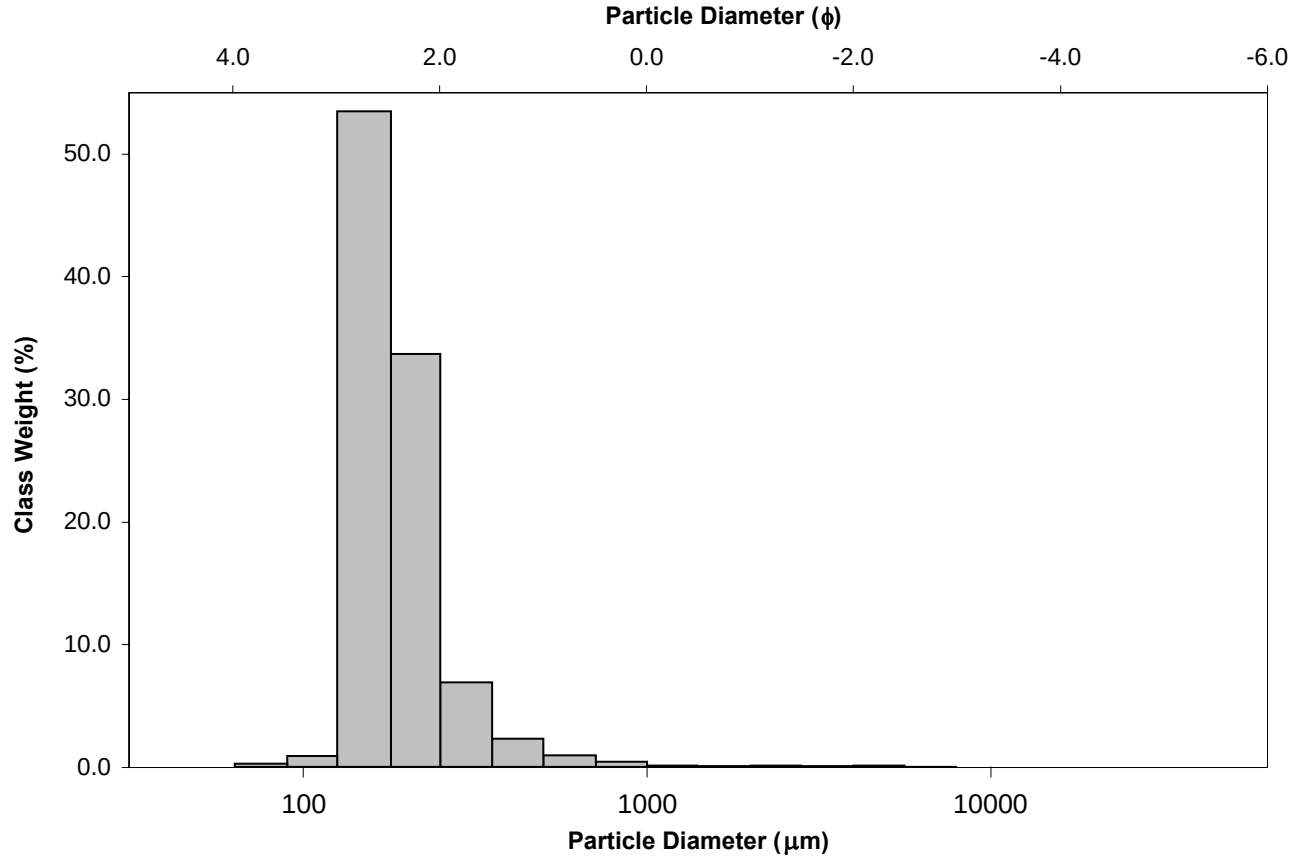
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	131.4	1.923
MEDIAN or D_{50}:	171.2	2.547
D_{90}:	263.7	2.928
(D_{90} / D_{10}):	2.006	1.522
(D_{90} - D_{10}):	132.3	1.005
(D_{75} / D_{25}):	1.488	1.259
(D_{75} - D_{25}):	70.85	0.574

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.3%	COARSE SAND:	1.4%
SAND:	98.4%	MEDIUM SAND:	9.1%
MUD:	1.3%	FINE SAND:	86.6%
		V FINE SAND:	1.1%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.2%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.2%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	0.2%
FINE GRAVEL:	0.2%	FINE SILT:	0.2%
V FINE GRAVEL:	0.2%	V FINE SILT:	0.2%
V COARSE SAND:	0.2%	CLAY:	0.2%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	209.2	178.2	2.489	177.1	2.497	Fine Sand
SORTING (σ):	251.5	1.657	0.729	1.333	0.414	Well Sorted
SKEWNESS (Sk):	15.82	-1.747	1.747	0.291	-0.291	Coarse Skewed
KURTOSIS (K):	310.1	25.07	25.07	1.016	1.016	Mesokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_15** ANALYST & DATE: michelle.grey, 8/9/2012

SAMPLE TYPE: Unimodal, Moderately Well Sorted TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Medium Gravelly Fine Sand

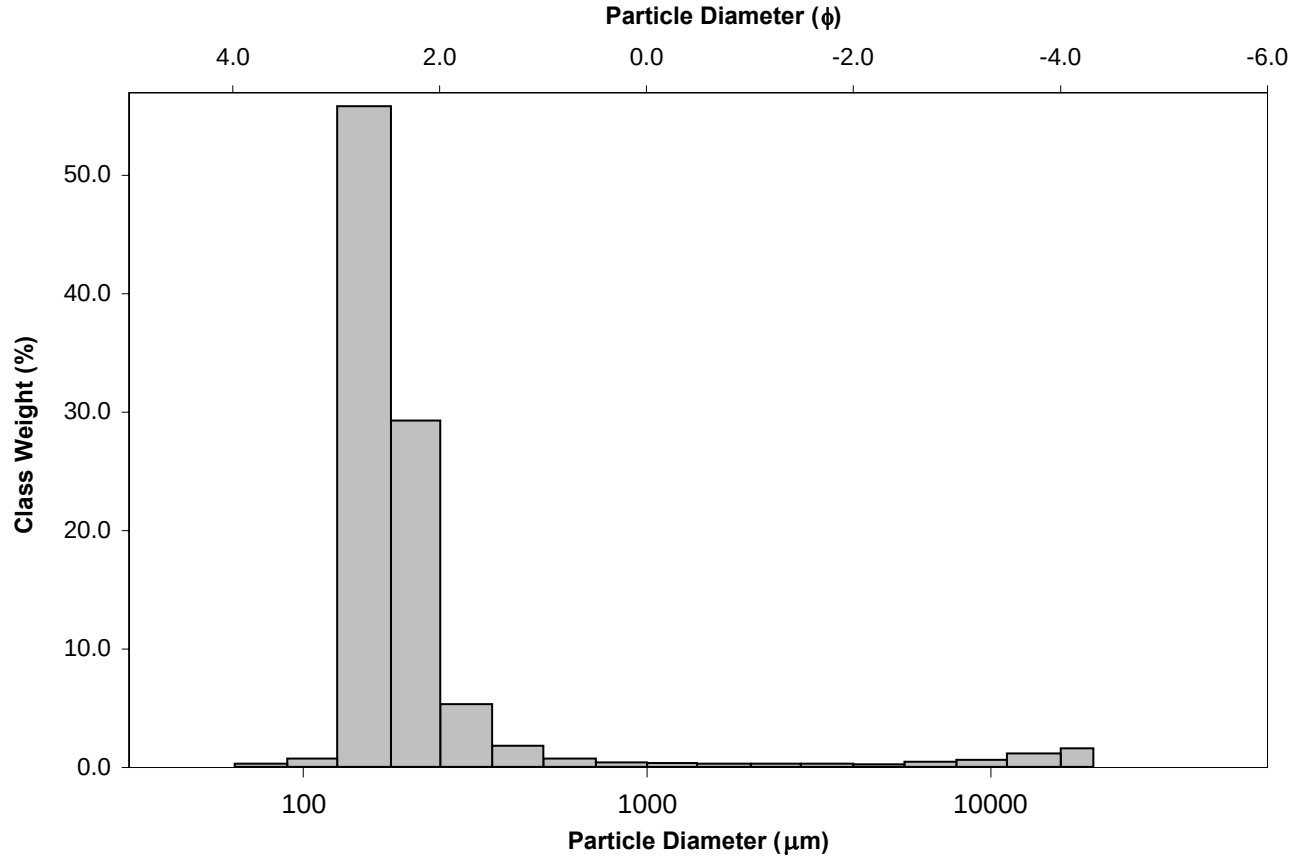
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	131.6	1.731
MEDIAN or D_{50}:	169.3	2.563
D_{90}:	301.2	2.926
(D_{90} / D_{10}):	2.289	1.690
(D_{90} - D_{10}):	169.6	1.195
(D_{75} / D_{25}):	1.494	1.262
(D_{75} - D_{25}):	71.44	0.579

GRAIN SIZE DISTRIBUTION

GRAVEL:	4.0%	COARSE SAND:	1.1%
SAND:	95.1%	MEDIUM SAND:	7.1%
MUD:	0.9%	FINE SAND:	85.3%
		V FINE SAND:	1.0%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.2%
COARSE GRAVEL:	1.0%	COARSE SILT:	0.2%
MEDIUM GRAVEL:	1.8%	MEDIUM SILT:	0.2%
FINE GRAVEL:	0.7%	FINE SILT:	0.2%
V FINE GRAVEL:	0.5%	V FINE SILT:	0.2%
V COARSE SAND:	0.6%	CLAY:	0.2%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	643.9	205.8	2.281	177.2	2.496	Fine Sand
SORTING (σ):	2429.4	2.478	1.309	1.497	0.582	Moderately Well Sorted
SKEWNESS (Sk):	5.792	2.919	-2.919	0.458	-0.458	Very Coarse Skewed
KURTOSIS (K):	36.72	16.44	16.44	1.766	1.766	Very Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_16**

ANALYST & DATE: michelle.grey, 8/9/2012

SAMPLE TYPE: Unimodal, Moderately Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Fine Gravelly Fine Sand

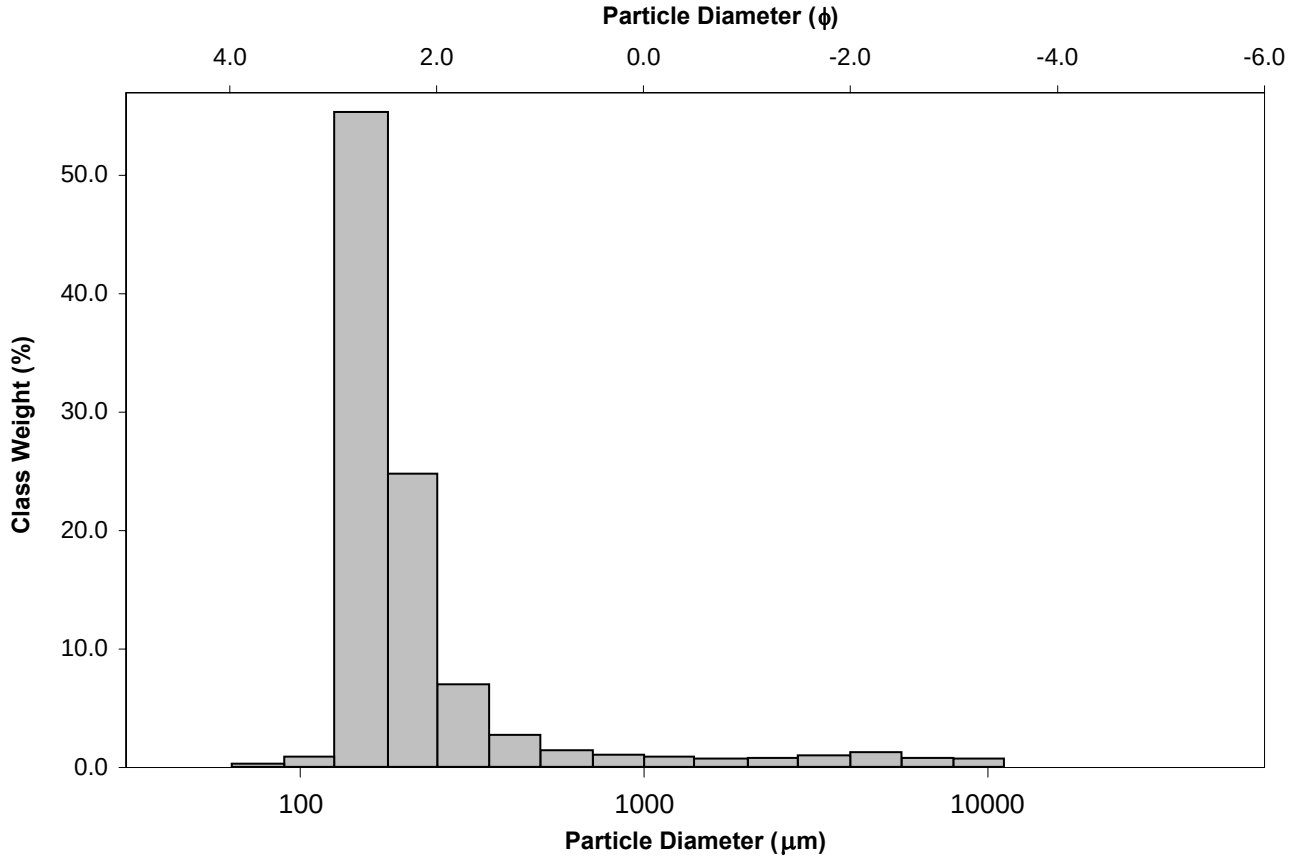
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	131.1	1.315
MEDIAN or D_{50}:	169.6	2.560
D_{90}:	402.0	2.931
(D_{90} / D_{10}):	3.065	2.229
(D_{90} - D_{10}):	270.9	1.616
(D_{75} / D_{25}):	1.562	1.299
(D_{75} - D_{25}):	81.14	0.643

GRAIN SIZE DISTRIBUTION

GRAVEL:	4.3%	COARSE SAND:	2.4%
SAND:	94.2%	MEDIUM SAND:	9.5%
MUD:	1.4%	FINE SAND:	79.6%
		V FINE SAND:	1.1%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.2%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.2%
MEDIUM GRAVEL:	0.7%	MEDIUM SILT:	0.2%
FINE GRAVEL:	2.0%	FINE SILT:	0.2%
V FINE GRAVEL:	1.7%	V FINE SILT:	0.2%
V COARSE SAND:	1.6%	CLAY:	0.2%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	434.8	208.2	2.264	185.1	2.434	Fine Sand
SORTING (σ):	1143.5	2.392	1.258	1.723	0.785	Moderately Sorted
SKEWNESS (Sk):	5.722	1.542	-1.542	0.569	-0.569	Very Coarse Skewed
KURTOSIS (K):	38.66	11.16	11.16	2.239	2.239	Very Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_17**

ANALYST & DATE: michelle.grey, 9/7/2012

SAMPLE TYPE: Unimodal, Very Poorly Sorted

TEXTURAL GROUP: Gravelly Sand

SEDIMENT NAME: Medium Gravelly Fine Sand

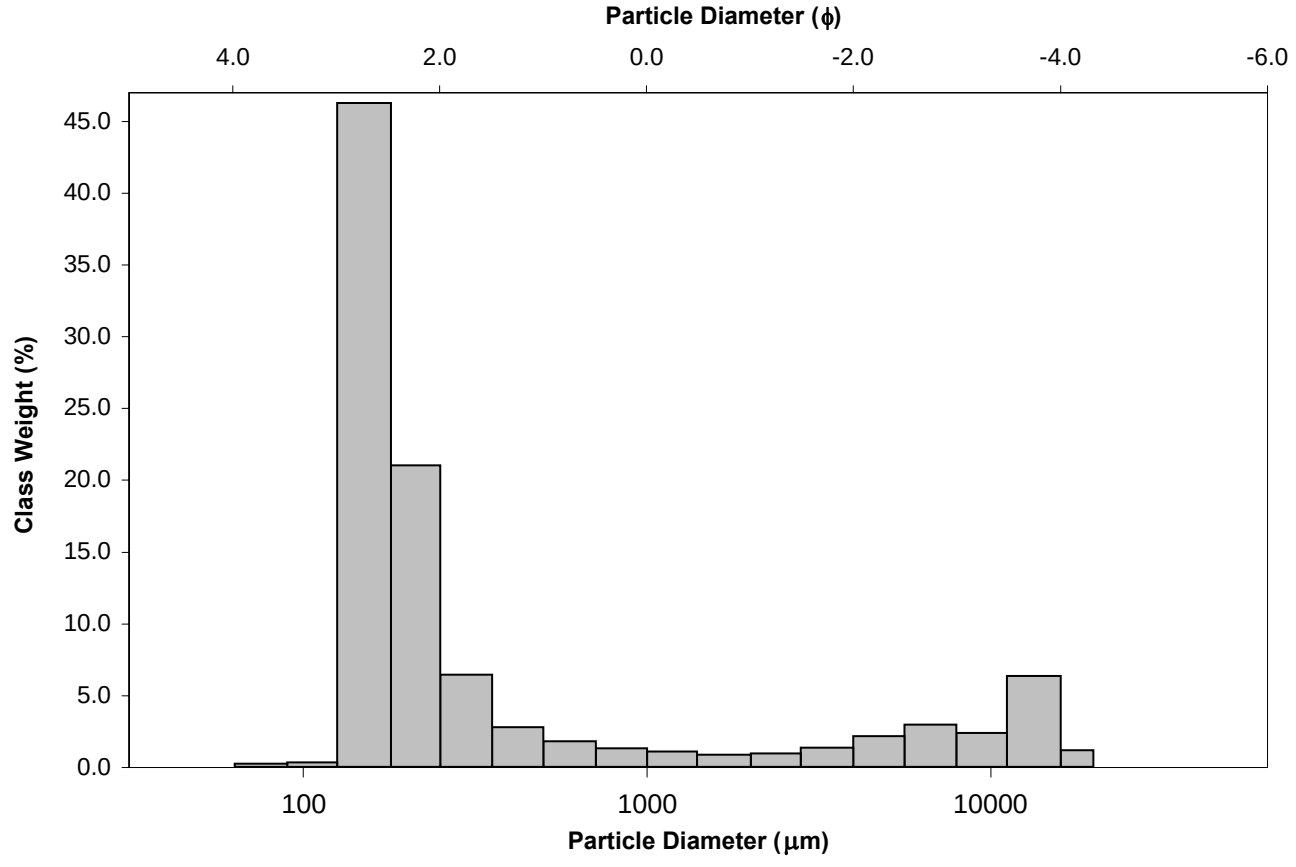
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	133.0	-2.900
MEDIAN or D_{50}:	181.1	2.465
D_{90}:	7465.1	2.911
(D_{90} / D_{10}):	56.14	-1.004
(D_{90} - D_{10}):	7332.1	5.811
(D_{75} / D_{25}):	2.306	1.783
(D_{75} - D_{25}):	194.8	1.206

GRAIN SIZE DISTRIBUTION

GRAVEL:	16.8%	COARSE SAND:	3.1%
SAND:	81.9%	MEDIUM SAND:	9.1%
MUD:	1.3%	FINE SAND:	67.3%
		V FINE SAND:	0.6%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.2%
COARSE GRAVEL:	0.8%	COARSE SILT:	0.2%
MEDIUM GRAVEL:	8.7%	MEDIUM SILT:	0.2%
FINE GRAVEL:	5.0%	FINE SILT:	0.2%
V FINE GRAVEL:	2.3%	V FINE SILT:	0.2%
V COARSE SAND:	1.9%	CLAY:	0.2%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	1790.6	353.0	1.502	405.6	1.302	Medium Sand
SORTING (σ):	3916.0	4.656	2.219	4.188	2.066	Very Poorly Sorted
SKEWNESS (Sk):	2.492	1.281	-1.281	0.835	-0.835	Very Coarse Skewed
KURTOSIS (K):	7.993	4.012	4.012	2.252	2.252	Very Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_18** ANALYST & DATE: michelle.grey, 9/7/2012

SAMPLE TYPE: Unimodal, Moderately Well Sorted TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

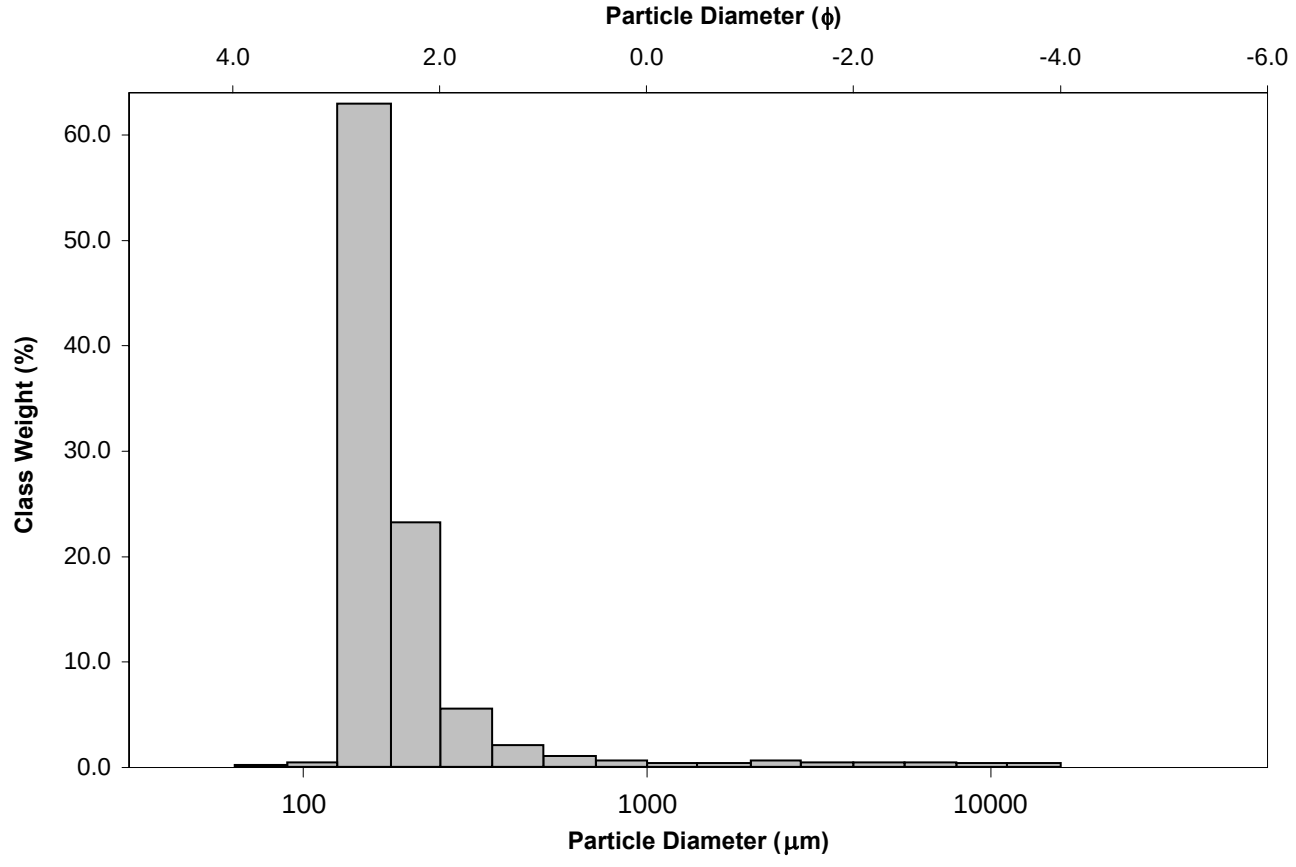
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	130.9	1.771
MEDIAN or D_{50}:	164.2	2.606
D_{90}:	293.1	2.933
(D_{90} / D_{10}):	2.238	1.656
(D_{90} - D_{10}):	162.1	1.162
(D_{75} / D_{25}):	1.446	1.234
(D_{75} - D_{25}):	63.63	0.532

GRAIN SIZE DISTRIBUTION

GRAVEL:	2.7%	COARSE SAND:	1.6%
SAND:	96.2%	MEDIUM SAND:	7.4%
MUD:	1.1%	FINE SAND:	85.7%
		V FINE SAND:	0.7%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.2%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.2%
MEDIUM GRAVEL:	0.8%	MEDIUM SILT:	0.2%
FINE GRAVEL:	0.9%	FINE SILT:	0.2%
V FINE GRAVEL:	1.0%	V FINE SILT:	0.2%
V COARSE SAND:	0.7%	CLAY:	0.2%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	362.6	189.1	2.402	174.0	2.523	Fine Sand
SORTING (σ):	1180.5	2.086	1.061	1.417	0.503	Moderately Well Sorted
SKEWNESS (Sk):	8.372	2.064	-2.064	0.471	-0.471	Very Coarse Skewed
KURTOSIS (K):	80.55	18.00	18.00	1.534	1.534	Very Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_19**

ANALYST & DATE: michelle.grey, 9/7/2012

SAMPLE TYPE: Unimodal, Poorly Sorted

TEXTURAL GROUP: Gravelly Sand

SEDIMENT NAME: Fine Gravelly Fine Sand

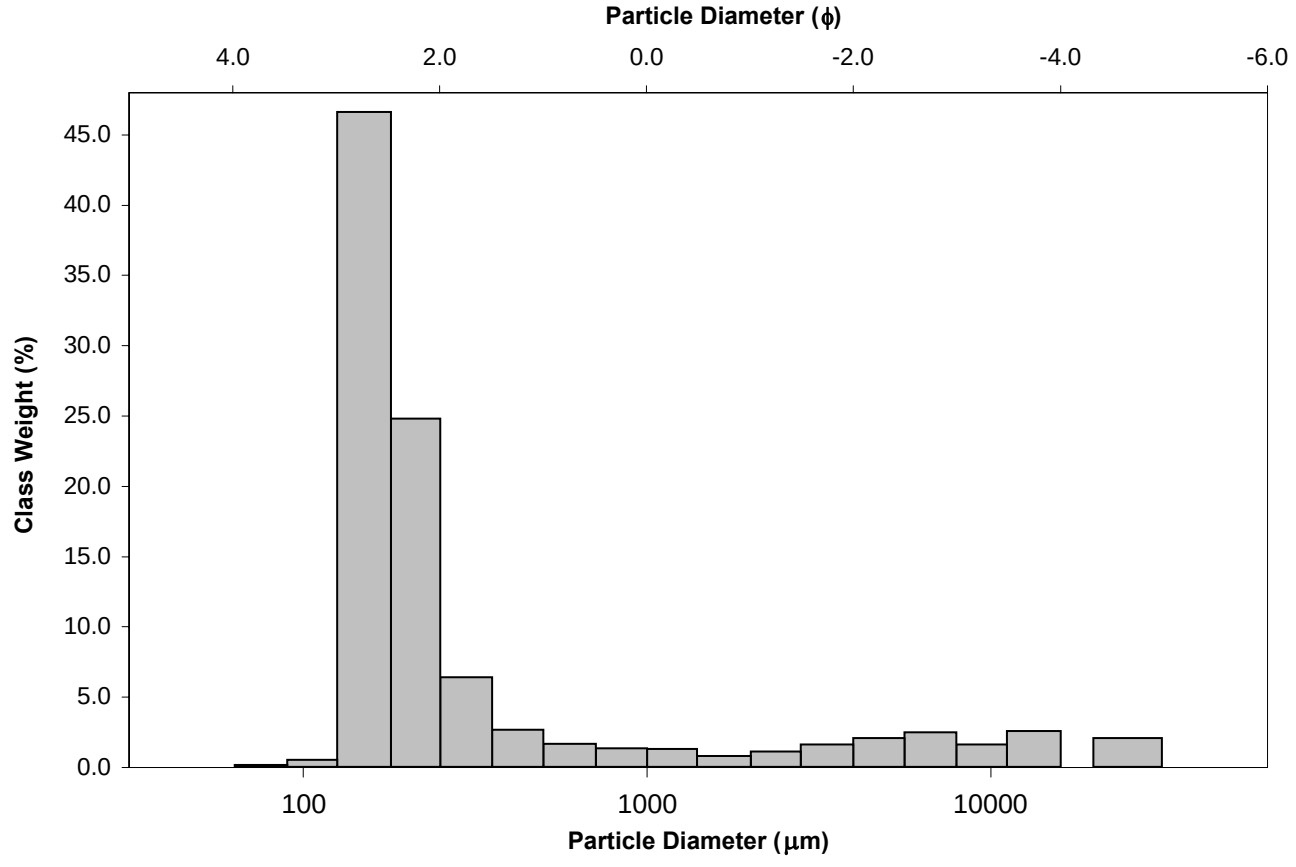
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	133.1	-2.279
MEDIAN or D_{50}:	181.0	2.466
D_{90}:	4852.0	2.910
(D_{90} / D_{10}):	36.47	-1.277
(D_{90} - D_{10}):	4719.0	5.189
(D_{75} / D_{25}):	1.923	1.524
(D_{75} - D_{25}):	137.7	0.943

GRAIN SIZE DISTRIBUTION

GRAVEL:	13.8%	COARSE SAND:	2.9%
SAND:	85.0%	MEDIUM SAND:	8.8%
MUD:	1.2%	FINE SAND:	70.7%
		V FINE SAND:	0.6%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.2%
COARSE GRAVEL:	2.6%	COARSE SILT:	0.2%
MEDIUM GRAVEL:	4.1%	MEDIUM SILT:	0.2%
FINE GRAVEL:	4.4%	FINE SILT:	0.2%
V FINE GRAVEL:	2.7%	V FINE SILT:	0.2%
V COARSE SAND:	1.9%	CLAY:	0.2%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	1712.6	317.8	1.654	286.2	1.805	Medium Sand
SORTING (σ):	4746.4	4.227	2.080	3.178	1.668	Poorly Sorted
SKEWNESS (Sk):	3.888	1.586	-1.586	0.785	-0.785	Very Coarse Skewed
KURTOSIS (K):	18.41	5.310	5.310	2.819	2.819	Very Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_20**

ANALYST & DATE: michelle.grey, 9/7/2012

SAMPLE TYPE: Unimodal, Very Poorly Sorted

TEXTURAL GROUP: Gravelly Sand

SEDIMENT NAME: Fine Gravelly Fine Sand

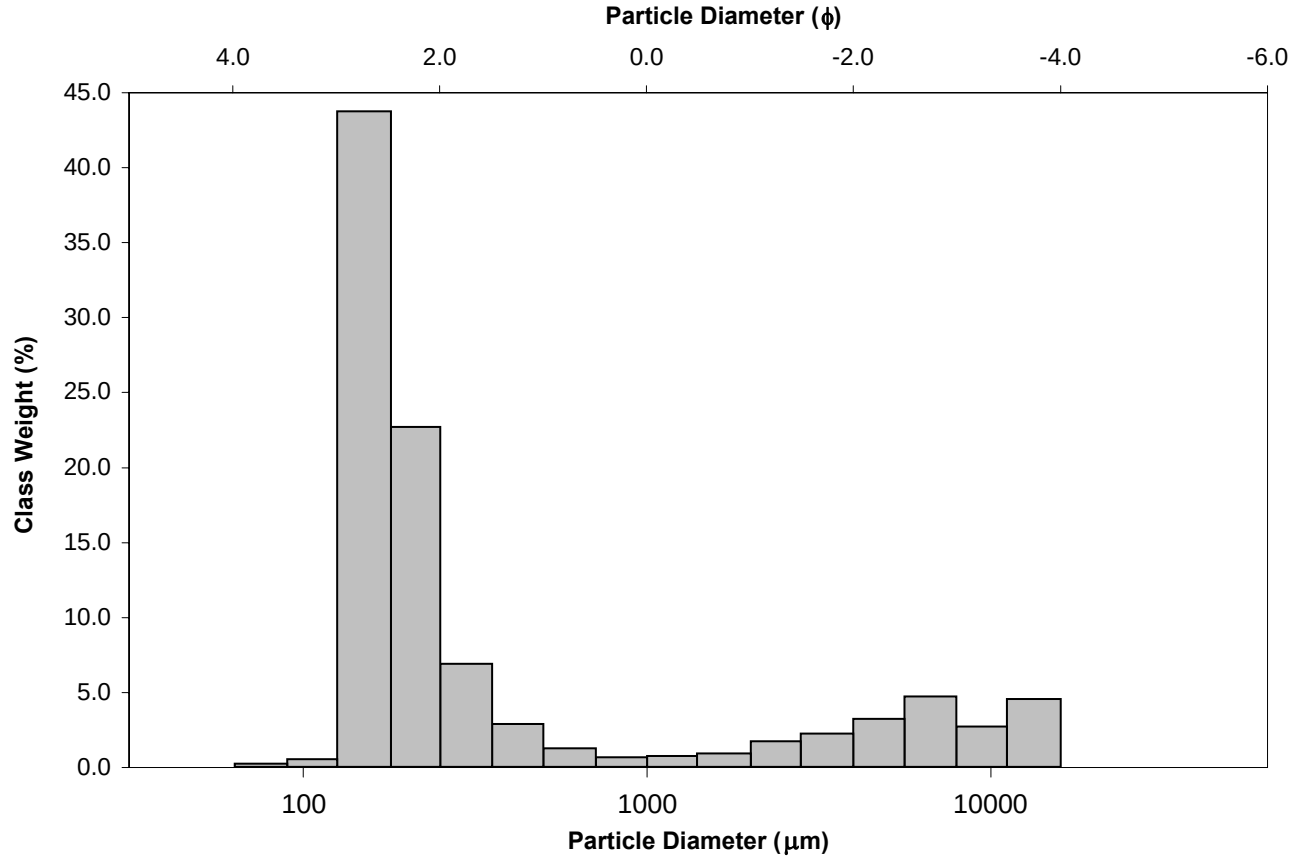
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	133.7	-2.688
MEDIAN or D_{50}:	188.9	2.404
D_{90}:	6446.4	2.903
(D_{90} / D_{10}):	48.22	-1.080
(D_{90} - D_{10}):	6312.7	5.592
(D_{75} / D_{25}):	2.380	1.846
(D_{75} - D_{25}):	208.1	1.251

GRAIN SIZE DISTRIBUTION

GRAVEL:	18.8%	COARSE SAND:	1.8%
SAND:	80.2%	MEDIUM SAND:	9.7%
MUD:	0.9%	FINE SAND:	66.4%
		V FINE SAND:	0.7%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.2%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.2%
MEDIUM GRAVEL:	7.1%	MEDIUM SILT:	0.2%
FINE GRAVEL:	7.8%	FINE SILT:	0.2%
V FINE GRAVEL:	3.9%	V FINE SILT:	0.2%
V COARSE SAND:	1.6%	CLAY:	0.2%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	1637.2	367.0	1.446	447.3	1.161	Medium Sand
SORTING (σ):	3384.3	4.478	2.163	4.321	2.111	Very Poorly Sorted
SKEWNESS (Sk):	2.484	1.236	-1.236	0.819	-0.819	Very Coarse Skewed
KURTOSIS (K):	8.216	3.635	3.635	2.085	2.085	Very Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_21**

ANALYST & DATE: michelle.grey, 9/7/2012

SAMPLE TYPE: Unimodal, Well Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

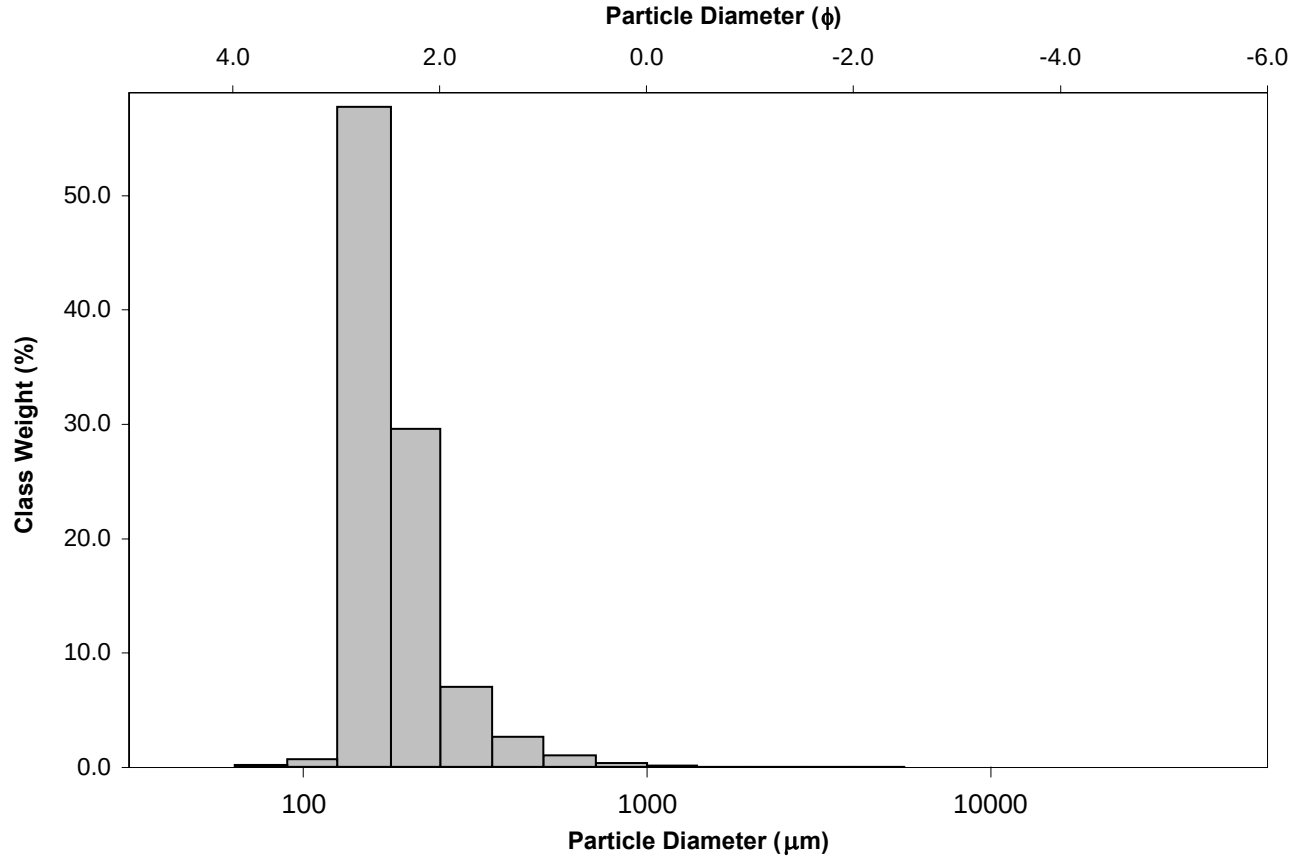
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	131.4	1.913
MEDIAN or D_{50}:	167.9	2.574
D_{90}:	265.5	2.928
(D_{90} / D_{10}):	2.021	1.530
(D_{90} - D_{10}):	134.1	1.015
(D_{75} / D_{25}):	1.471	1.249
(D_{75} - D_{25}):	67.91	0.557

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.1%	COARSE SAND:	1.3%
SAND:	98.8%	MEDIUM SAND:	9.5%
MUD:	1.1%	FINE SAND:	86.9%
		V FINE SAND:	0.8%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.2%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.2%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	0.2%
FINE GRAVEL:	0.0%	FINE SILT:	0.2%
V FINE GRAVEL:	0.1%	V FINE SILT:	0.2%
V COARSE SAND:	0.2%	CLAY:	0.2%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	198.9	176.5	2.503	175.5	2.511	Fine Sand
SORTING (σ):	156.1	1.584	0.664	1.332	0.413	Well Sorted
SKEWNESS (Sk):	16.43	-2.230	2.230	0.340	-0.340	Very Coarse Skewed
KURTOSIS (K):	404.4	26.63	26.63	1.045	1.045	Mesokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_22**

ANALYST & DATE: michelle.grey, 9/7/2012

SAMPLE TYPE: Unimodal, Well Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Fine Gravelly Fine Sand

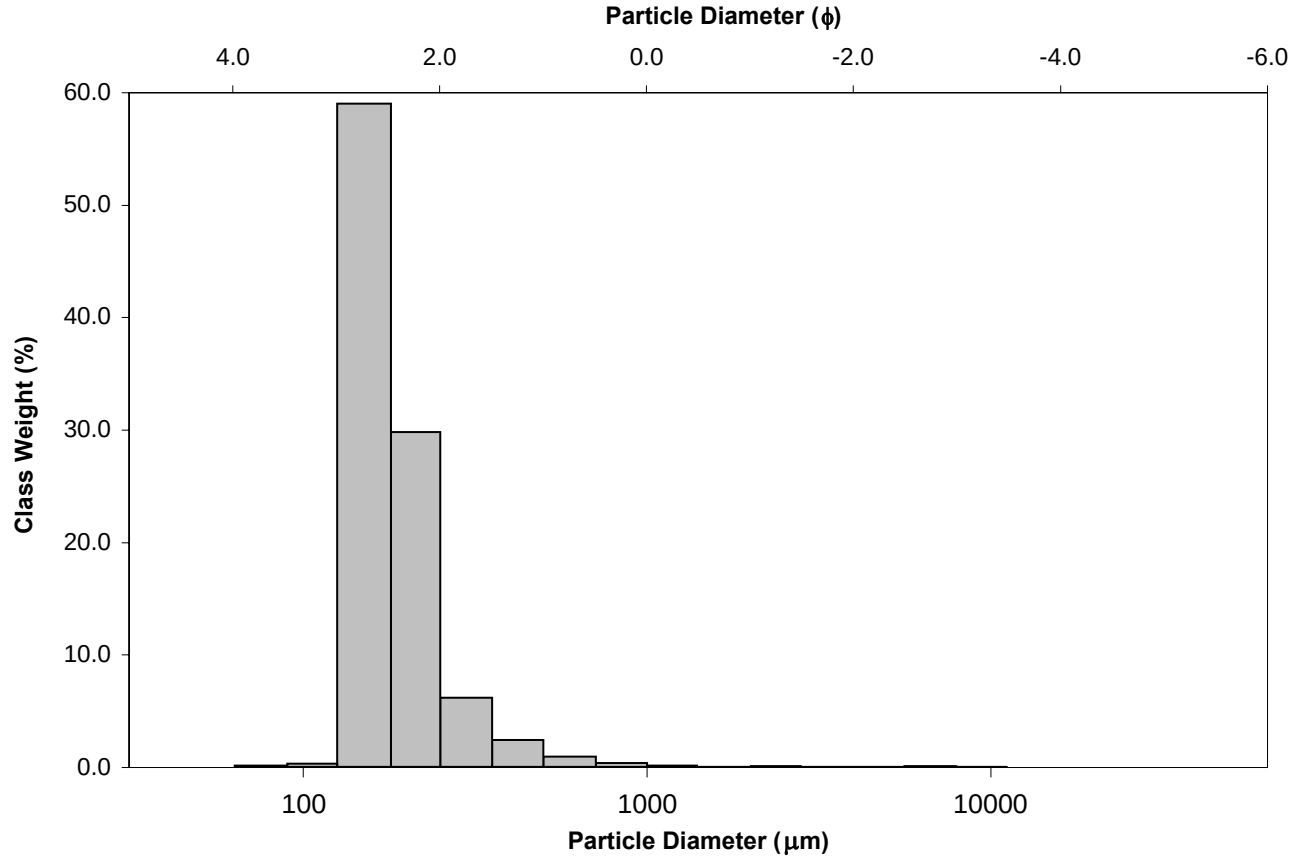
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	131.5	1.985
MEDIAN or D_{50}:	167.2	2.580
D_{90}:	252.5	2.927
(D_{90} / D_{10}):	1.920	1.474
(D_{90} - D_{10}):	121.0	0.941
(D_{75} / D_{25}):	1.456	1.240
(D_{75} - D_{25}):	65.63	0.542

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.3%	COARSE SAND:	1.3%
SAND:	98.6%	MEDIUM SAND:	8.5%
MUD:	1.2%	FINE SAND:	88.3%
		V FINE SAND:	0.4%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.2%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.2%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	0.2%
FINE GRAVEL:	0.1%	FINE SILT:	0.2%
V FINE GRAVEL:	0.1%	V FINE SILT:	0.2%
V COARSE SAND:	0.2%	CLAY:	0.2%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	206.2	175.5	2.510	174.5	2.518	Fine Sand
SORTING (σ):	311.5	1.620	0.696	1.325	0.406	Well Sorted
SKEWNESS (Sk):	21.62	-1.636	1.636	0.341	-0.341	Very Coarse Skewed
KURTOSIS (K):	548.8	28.24	28.24	1.058	1.058	Mesokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_23**

ANALYST & DATE: michelle.grey, 9/7/2012

SAMPLE TYPE: Unimodal, Well Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Medium Gravelly Fine Sand

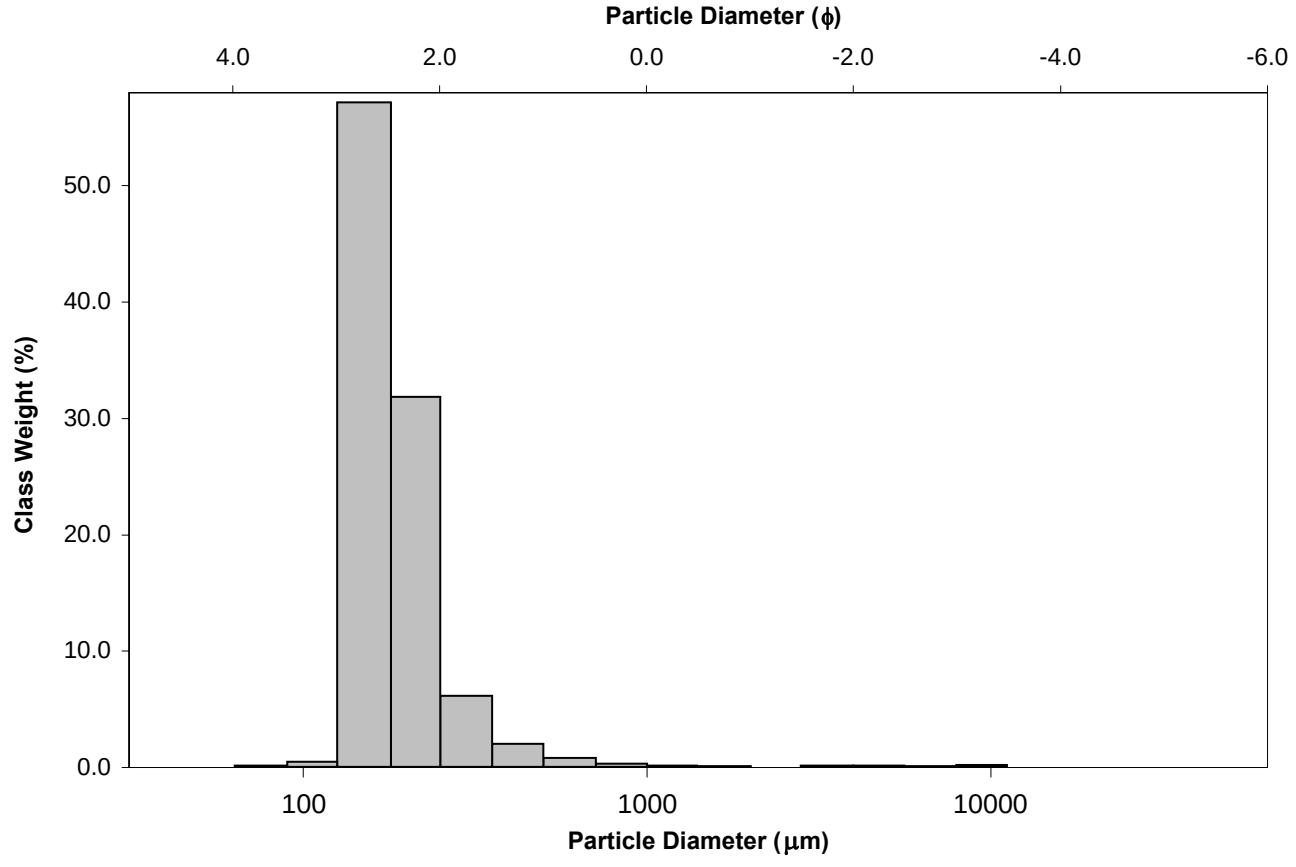
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	131.5	2.003
MEDIAN or D_{50}:	168.5	2.569
D_{90}:	249.5	2.927
(D_{90} / D_{10}):	1.898	1.461
(D_{90} - D_{10}):	118.0	0.924
(D_{75} / D_{25}):	1.463	1.245
(D_{75} - D_{25}):	66.84	0.549

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.5%	COARSE SAND:	1.1%
SAND:	98.2%	MEDIUM SAND:	8.0%
MUD:	1.2%	FINE SAND:	88.3%
		V FINE SAND:	0.6%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.2%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.2%
MEDIUM GRAVEL:	0.2%	MEDIUM SILT:	0.2%
FINE GRAVEL:	0.2%	FINE SILT:	0.2%
V FINE GRAVEL:	0.1%	V FINE SILT:	0.2%
V COARSE SAND:	0.2%	CLAY:	0.2%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	226.8	176.9	2.499	175.1	2.514	Fine Sand
SORTING (σ):	519.4	1.689	0.756	1.321	0.402	Well Sorted
SKEWNESS (Sk):	15.33	-0.454	0.454	0.314	-0.314	Very Coarse Skewed
KURTOSIS (K):	256.8	28.66	28.66	1.026	1.026	Mesokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_24**

ANALYST & DATE: Dan Gregory, 10/4/2012

SAMPLE TYPE: Unimodal, Poorly Sorted

TEXTURAL GROUP: Gravelly Sand

SEDIMENT NAME: Fine Gravelly Fine Sand

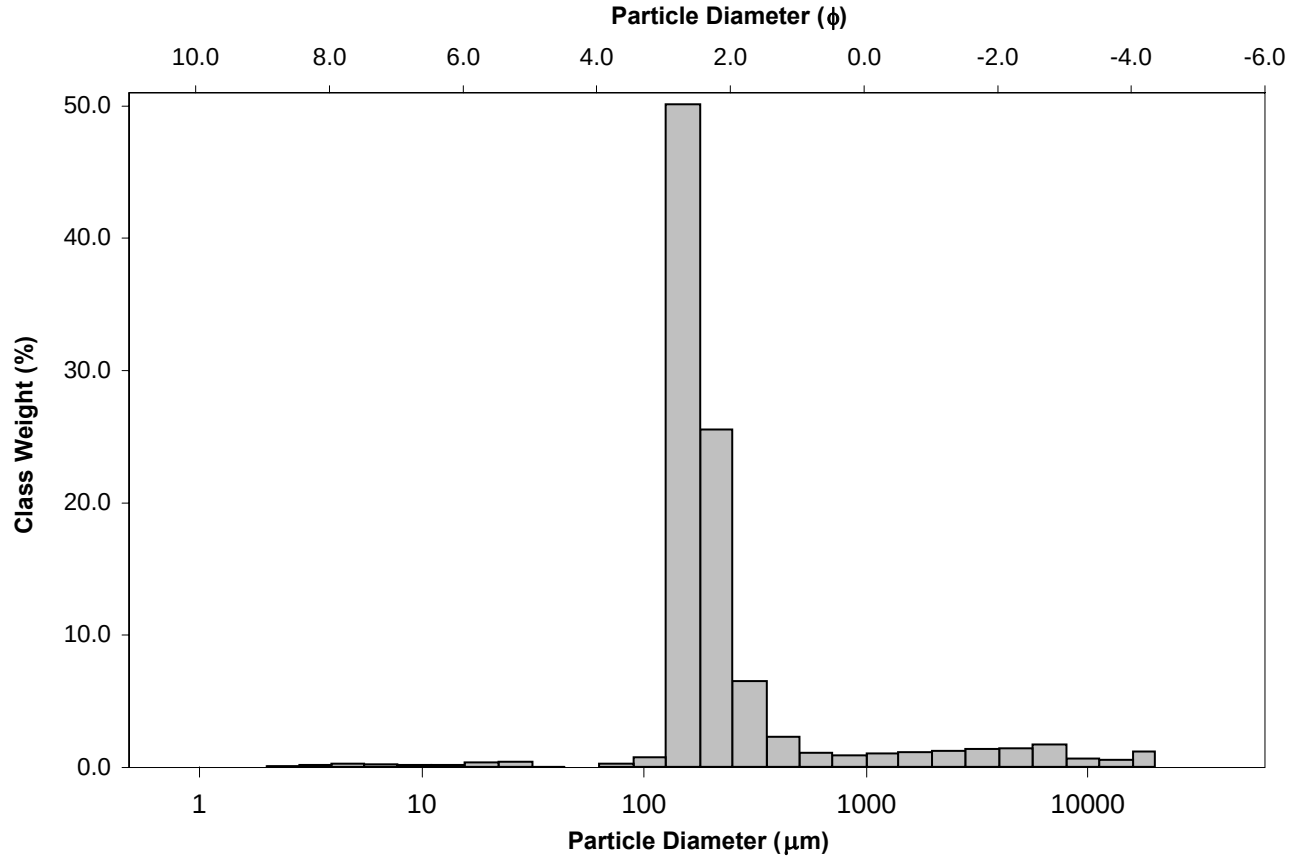
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	131.3	0.095
MEDIAN or D_{50}:	173.4	2.527
D_{90}:	936.2	2.929
(D_{90} / D_{10}):	7.127	30.77
(D_{90} - D_{10}):	804.8	2.833
(D_{75} / D_{25}):	1.615	1.331
(D_{75} - D_{25}):	89.59	0.691

GRAIN SIZE DISTRIBUTION

GRAVEL:	7.7%	COARSE SAND:	2.0%
SAND:	90.4%	MEDIUM SAND:	8.7%
MUD:	1.9%	FINE SAND:	76.6%
		V FINE SAND:	0.9%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.0%
COARSE GRAVEL:	0.8%	COARSE SILT:	0.8%
MEDIUM GRAVEL:	1.2%	MEDIUM SILT:	0.4%
FINE GRAVEL:	3.2%	FINE SILT:	0.5%
V FINE GRAVEL:	2.6%	V FINE SILT:	0.3%
V COARSE SAND:	2.2%	CLAY:	0.0%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	740.8	235.8	2.085	196.6	2.347	Fine Sand
SORTING (σ):	2224.6	3.022	1.595	2.091	1.064	Poorly Sorted
SKEWNESS (Sk):	5.455	1.575	-1.575	0.631	-0.631	Very Coarse Skewed
KURTOSIS (K):	36.39	8.359	8.359	2.968	2.968	Very Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_25** ANALYST & DATE: Dan Gregory, 10/4/2012

SAMPLE TYPE: Unimodal, Moderately Well Sorted TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Fine Gravelly Fine Sand

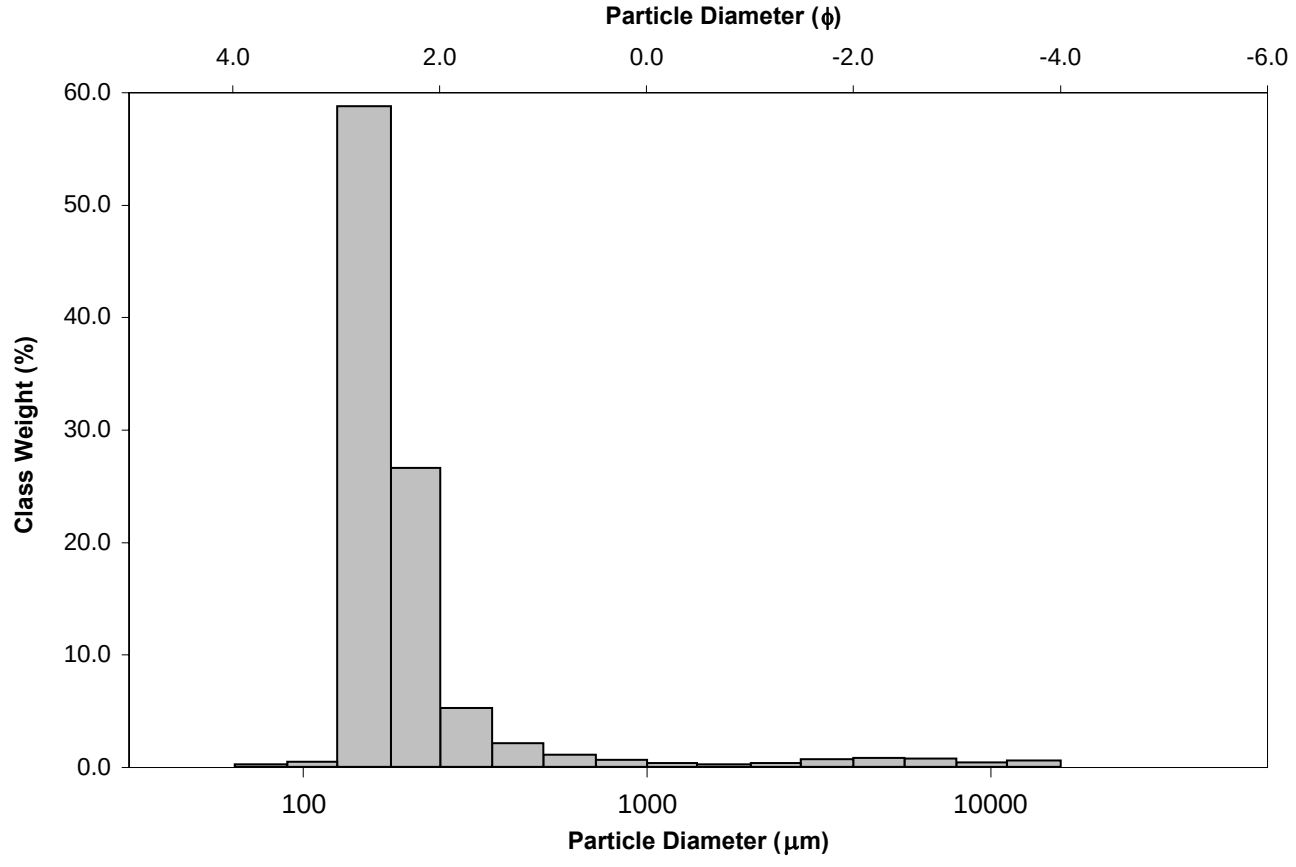
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	131.2	1.692
MEDIAN or D_{50}:	167.1	2.581
D_{90}:	309.4	2.930
(D_{90} / D_{10}):	2.358	1.731
(D_{90} - D_{10}):	178.2	1.238
(D_{75} / D_{25}):	1.485	1.256
(D_{75} - D_{25}):	69.74	0.571

GRAIN SIZE DISTRIBUTION

GRAVEL:	3.6%	COARSE SAND:	1.7%
SAND:	95.2%	MEDIUM SAND:	7.2%
MUD:	1.3%	FINE SAND:	84.9%
		V FINE SAND:	0.7%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.2%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.2%
MEDIUM GRAVEL:	1.0%	MEDIUM SILT:	0.2%
FINE GRAVEL:	1.5%	FINE SILT:	0.2%
V FINE GRAVEL:	1.1%	V FINE SILT:	0.2%
V COARSE SAND:	0.6%	CLAY:	0.2%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	431.2	196.8	2.345	176.2	2.504	Fine Sand
SORTING (σ):	1402.3	2.264	1.179	1.483	0.568	Moderately Well Sorted
SKEWNESS (Sk):	7.042	2.075	-2.075	0.475	-0.475	Very Coarse Skewed
KURTOSIS (K):	57.36	15.35	15.35	1.719	1.719	Very Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_26**

ANALYST & DATE: Dan Gregory, 10/5/2012

SAMPLE TYPE: Unimodal, Well Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

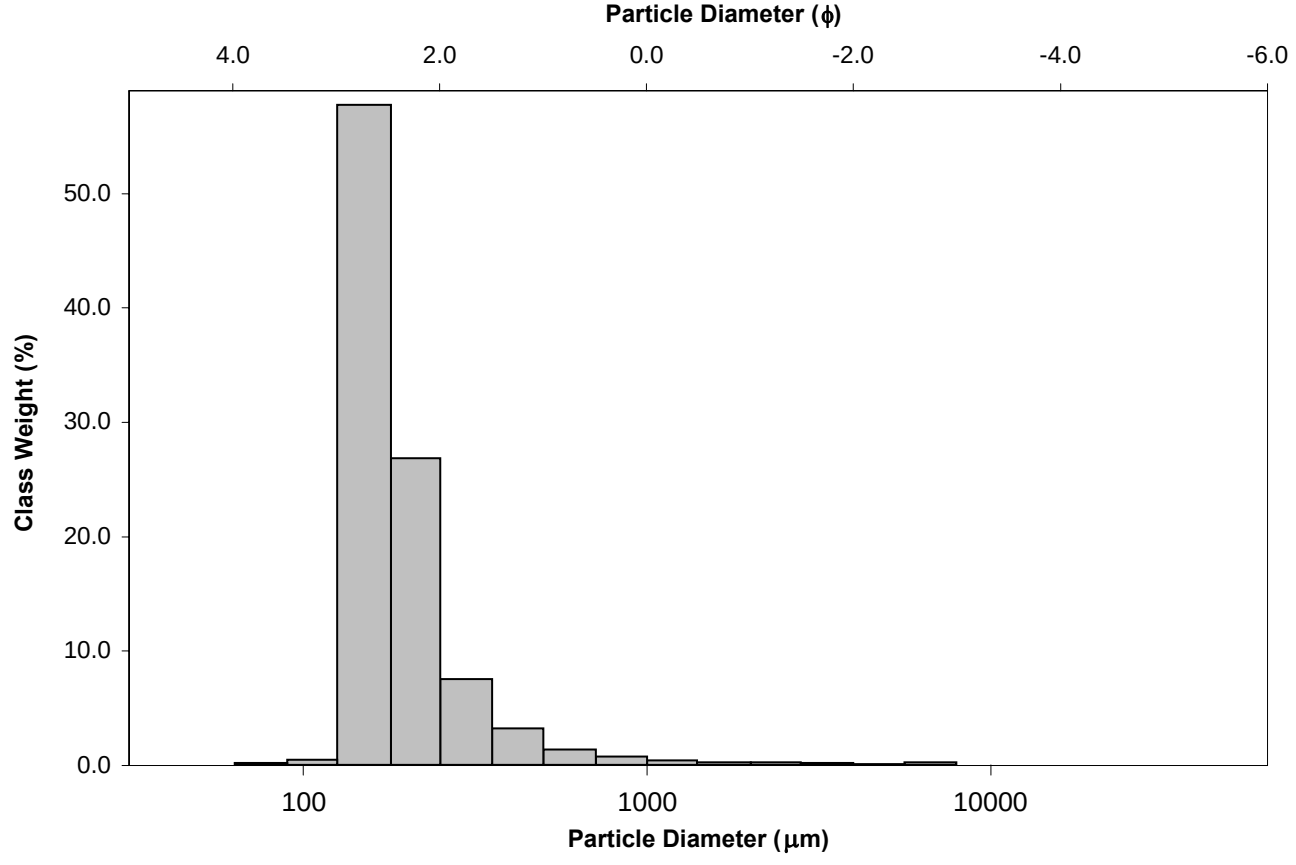
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	131.0	1.728
MEDIAN or D_{50}:	167.8	2.575
D_{90}:	301.8	2.933
(D_{90} / D_{10}):	2.305	1.697
(D_{90} - D_{10}):	170.9	1.205
(D_{75} / D_{25}):	1.502	1.265
(D_{75} - D_{25}):	72.12	0.587

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.8%	COARSE SAND:	2.1%
SAND:	97.4%	MEDIUM SAND:	10.4%
MUD:	1.8%	FINE SAND:	83.6%
		V FINE SAND:	0.7%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.3%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.3%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	0.3%
FINE GRAVEL:	0.3%	FINE SILT:	0.3%
V FINE GRAVEL:	0.5%	V FINE SILT:	0.3%
V COARSE SAND:	0.7%	CLAY:	0.3%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	236.2	179.9	2.475	177.0	2.498	Fine Sand
SORTING (σ):	416.9	1.864	0.898	1.388	0.473	Well Sorted
SKEWNESS (Sk):	12.01	-0.824	0.824	0.407	-0.407	Very Coarse Skewed
KURTOSIS (K):	171.4	18.20	18.20	1.214	1.214	Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_27**

ANALYST & DATE: Dan Gregory, 10/5/2012

SAMPLE TYPE: Unimodal, Well Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

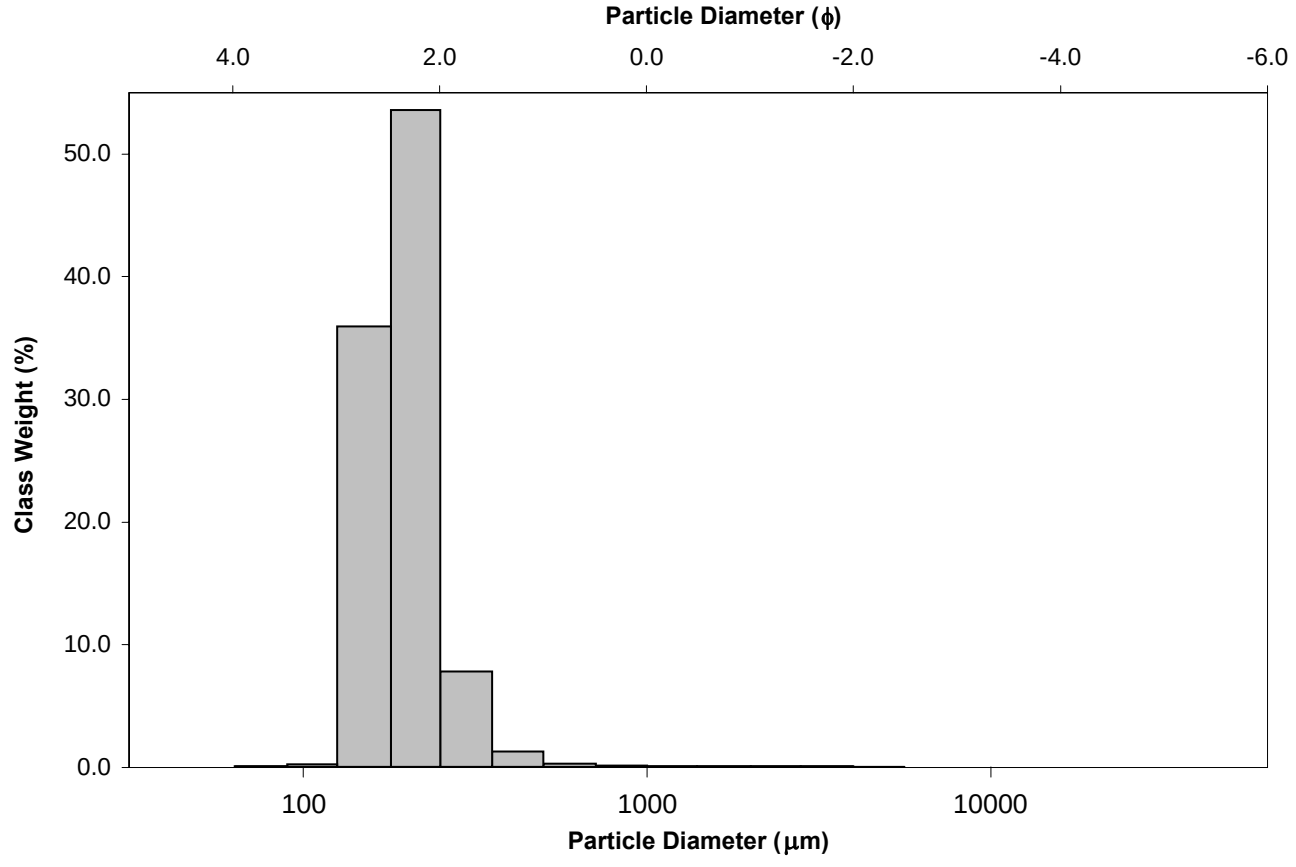
	μm	ϕ
MODE 1:	215.0	2.237
MODE 2:		
MODE 3:		
D_{10}:	135.7	2.001
MEDIAN or D_{50}:	192.9	2.374
D_{90}:	249.8	2.882
(D_{90} / D_{10}):	1.841	1.440
(D_{90} - D_{10}):	114.1	0.881
(D_{75} / D_{25}):	1.446	1.249
(D_{75} - D_{25}):	69.93	0.532

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.2%	COARSE SAND:	0.4%
SAND:	98.7%	MEDIUM SAND:	9.1%
MUD:	1.2%	FINE SAND:	88.6%
		V FINE SAND:	0.3%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.2%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.2%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	0.2%
FINE GRAVEL:	0.0%	FINE SILT:	0.2%
V FINE GRAVEL:	0.2%	V FINE SILT:	0.2%
V COARSE SAND:	0.2%	CLAY:	0.2%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	207.5	187.4	2.416	188.2	2.410	Fine Sand
SORTING (σ):	152.5	1.558	0.639	1.299	0.377	Well Sorted
SKEWNESS (Sk):	17.42	-3.414	3.414	-0.028	0.028	Symmetrical
KURTOSIS (K):	399.8	34.51	34.51	0.974	0.974	Mesokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_28** ANALYST & DATE: Dan Gregory, 10/5/2012

SAMPLE TYPE: Unimodal, Moderately Well Sorted TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

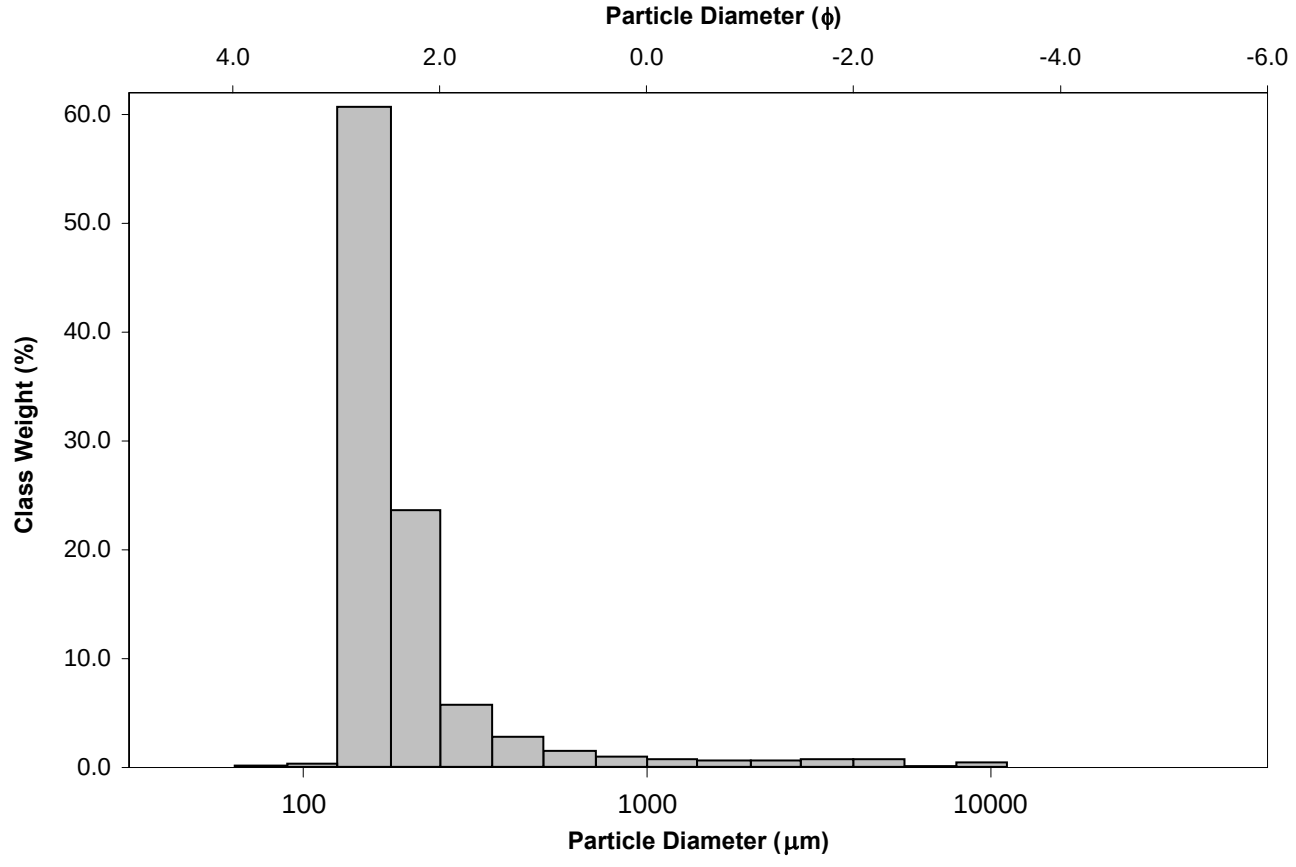
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	131.2	1.600
MEDIAN or D_{50}:	165.9	2.591
D_{90}:	329.9	2.930
(D_{90} / D_{10}):	2.515	1.832
(D_{90} - D_{10}):	198.7	1.331
(D_{75} / D_{25}):	1.487	1.257
(D_{75} - D_{25}):	69.83	0.573

GRAIN SIZE DISTRIBUTION

GRAVEL:	2.5%	COARSE SAND:	2.4%
SAND:	96.2%	MEDIUM SAND:	8.3%
MUD:	1.3%	FINE SAND:	83.8%
		V FINE SAND:	0.5%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.2%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.2%
MEDIUM GRAVEL:	0.5%	MEDIUM SILT:	0.2%
FINE GRAVEL:	0.8%	FINE SILT:	0.2%
V FINE GRAVEL:	1.3%	V FINE SILT:	0.2%
V COARSE SAND:	1.3%	CLAY:	0.2%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	326.9	192.3	2.379	176.6	2.502	Fine Sand
SORTING (σ):	842.1	2.083	1.059	1.483	0.569	Moderately Well Sorted
SKEWNESS (Sk):	8.058	1.328	-1.328	0.497	-0.497	Very Coarse Skewed
KURTOSIS (K):	77.64	14.82	14.82	1.688	1.688	Very Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_29** ANALYST & DATE: Dan Gregory, 10/5/2012

SAMPLE TYPE: Unimodal, Moderately Well Sorted TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Medium Gravelly Fine Sand

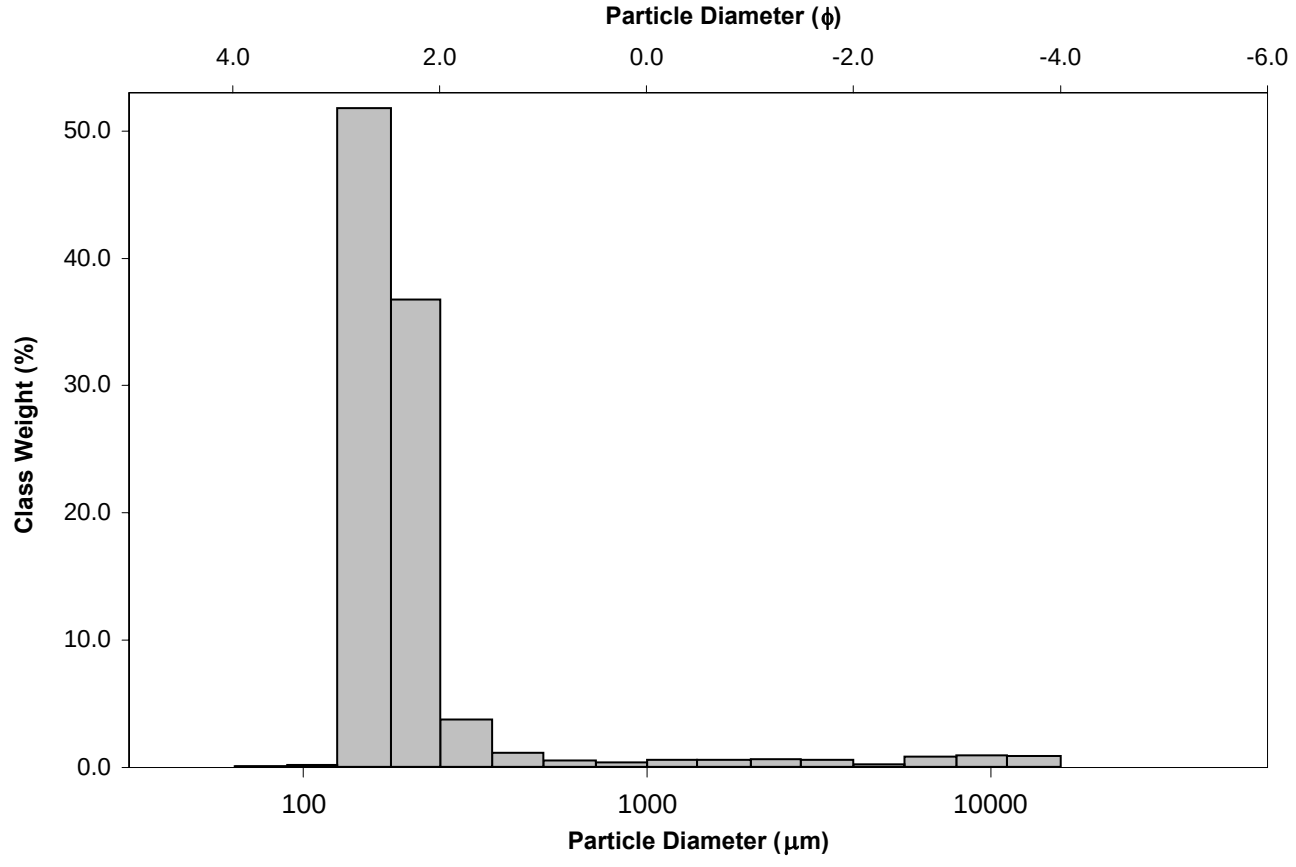
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	132.8	1.904
MEDIAN or D_{50}:	174.1	2.522
D_{90}:	267.1	2.913
(D_{90} / D_{10}):	2.012	1.530
(D_{90} - D_{10}):	134.4	1.009
(D_{75} / D_{25}):	1.484	1.259
(D_{75} - D_{25}):	71.13	0.569

GRAIN SIZE DISTRIBUTION

GRAVEL:	3.9%	COARSE SAND:	0.8%
SAND:	95.2%	MEDIUM SAND:	4.8%
MUD:	0.9%	FINE SAND:	88.2%
		V FINE SAND:	0.2%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.1%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.1%
MEDIUM GRAVEL:	1.8%	MEDIUM SILT:	0.1%
FINE GRAVEL:	1.0%	FINE SILT:	0.1%
V FINE GRAVEL:	1.1%	V FINE SILT:	0.1%
V COARSE SAND:	1.1%	CLAY:	0.1%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	500.6	205.7	2.282	178.9	2.483	Fine Sand
SORTING (σ):	1678.9	2.305	1.205	1.571	0.651	Moderately Well Sorted
SKEWNESS (Sk):	6.184	2.663	-2.663	0.428	-0.428	Very Coarse Skewed
KURTOSIS (K):	42.72	15.99	15.99	2.166	2.166	Very Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_30**

ANALYST & DATE: Dan Gregory, 10/5/2012

SAMPLE TYPE: Trimodal, Very Poorly Sorted

TEXTURAL GROUP: Sandy Gravel

SEDIMENT NAME: Sandy Coarse Gravel

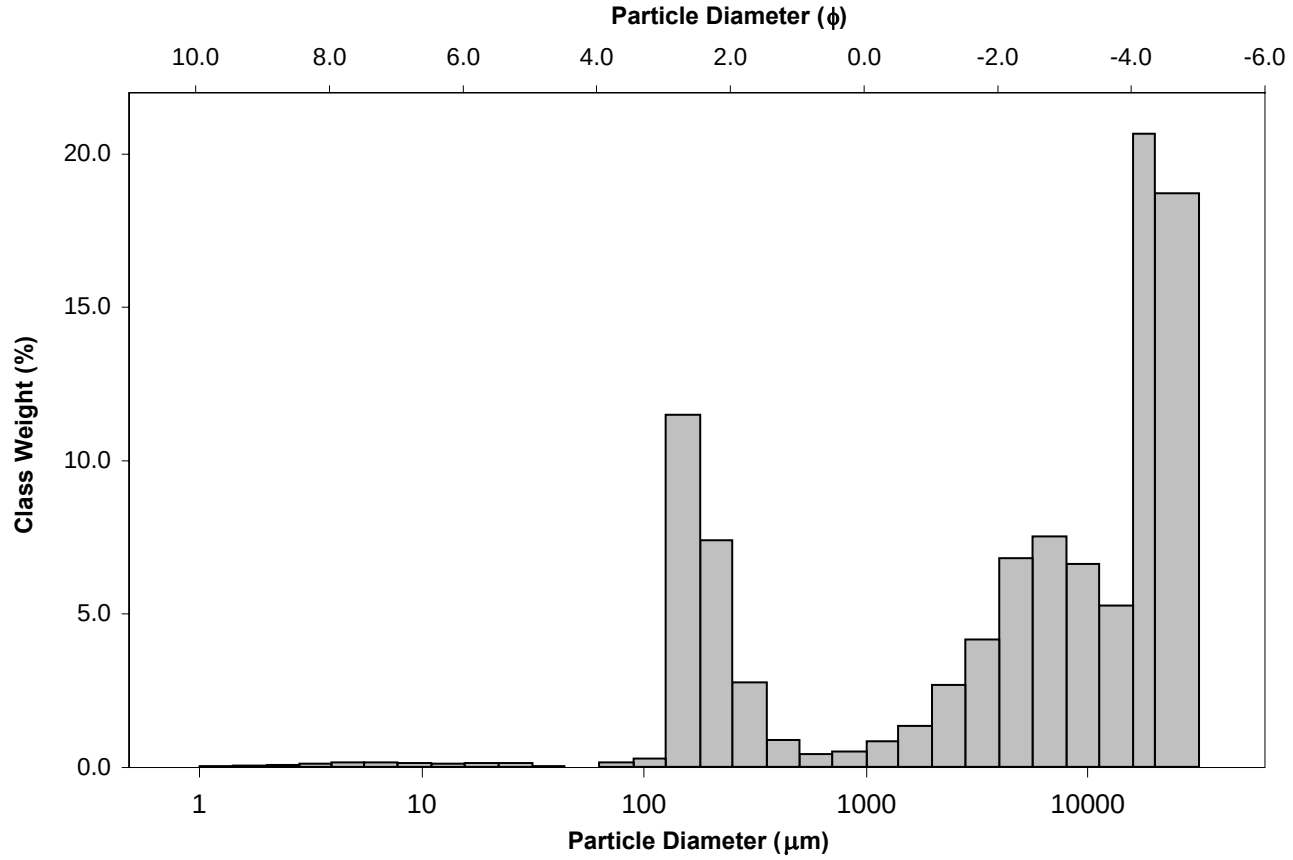
	μm	ϕ
MODE 1:	18000.0	-4.161
MODE 2:	152.5	2.737
MODE 3:	6800.0	-2.743
D_{10}:	160.5	-4.714
MEDIAN or D_{50}:	8211.8	-3.038
D_{90}:	26254.1	2.639
(D_{90} / D_{10}):	163.6	-0.560
(D_{90} - D_{10}):	26093.6	7.354
(D_{75} / D_{25}):	31.89	-0.156
(D_{75} - D_{25}):	19352.6	4.995

GRAIN SIZE DISTRIBUTION

GRAVEL:	72.1%	COARSE SAND:	1.0%
SAND:	26.7%	MEDIUM SAND:	3.7%
MUD:	1.1%	FINE SAND:	19.4%
		V FINE SAND:	0.4%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.0%
COARSE GRAVEL:	38.5%	COARSE SILT:	0.3%
MEDIUM GRAVEL:	12.1%	MEDIUM SILT:	0.3%
FINE GRAVEL:	14.6%	FINE SILT:	0.3%
V FINE GRAVEL:	7.0%	V FINE SILT:	0.2%
V COARSE SAND:	2.2%	CLAY:	0.1%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	11389.5	3925.0	-1.973	3373.2	-1.754	Very Fine Gravel
SORTING (σ):	10077.5	7.473	2.902	7.406	2.889	Very Poorly Sorted
SKEWNESS (Sk):	0.322	-0.936	0.936	-0.545	0.545	Very Fine Skewed
KURTOSIS (K):	1.513	2.717	2.717	0.632	0.632	Very Platykurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_32**

ANALYST & DATE: Dan Gregory, 10/5/2012

SAMPLE TYPE: Unimodal, Well Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

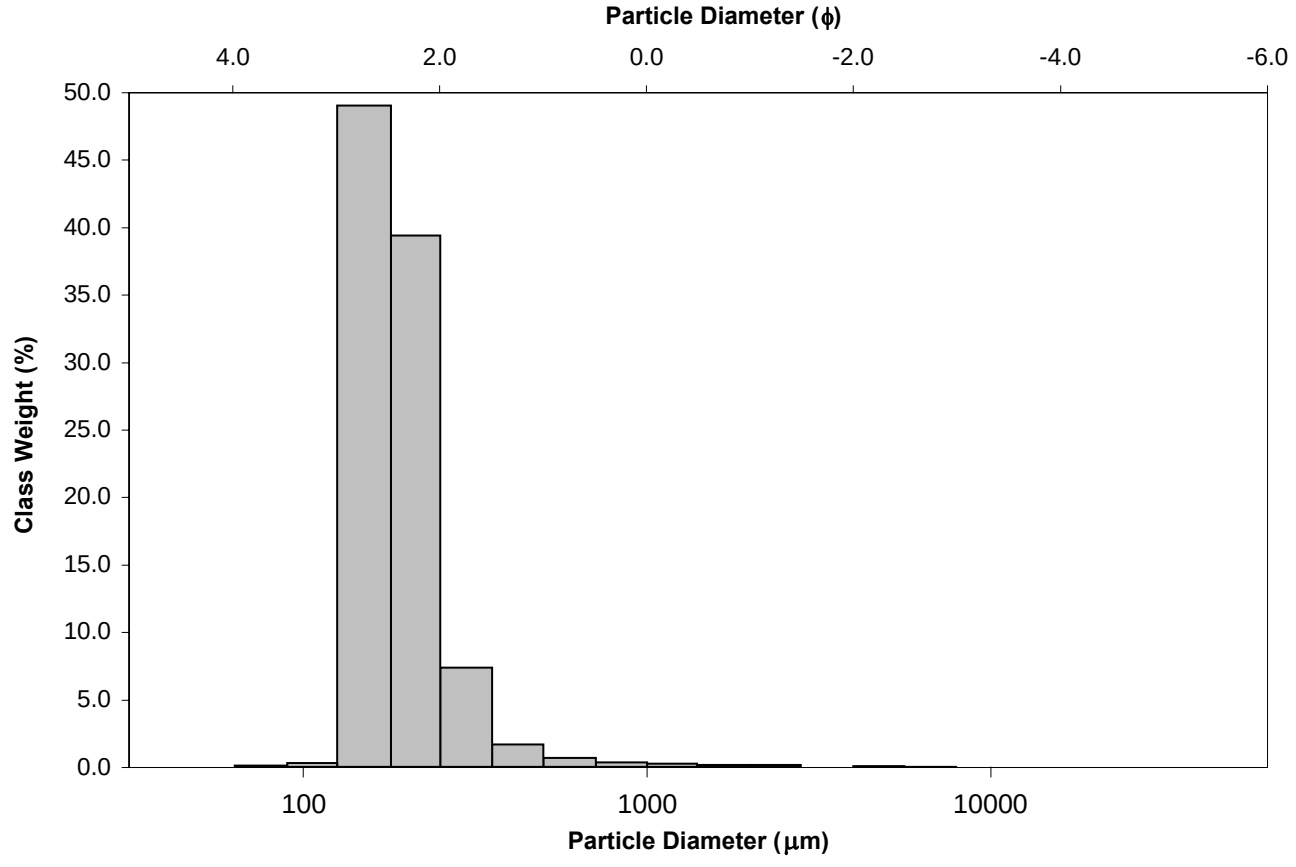
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	132.8	1.950
MEDIAN or D_{50}:	176.9	2.499
D_{90}:	258.8	2.912
(D_{90} / D_{10}):	1.948	1.493
(D_{90} - D_{10}):	125.9	0.962
(D_{75} / D_{25}):	1.488	1.263
(D_{75} - D_{25}):	72.23	0.574

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.3%	COARSE SAND:	1.0%
SAND:	98.6%	MEDIUM SAND:	9.0%
MUD:	1.1%	FINE SAND:	87.8%
		V FINE SAND:	0.4%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.2%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.2%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	0.2%
FINE GRAVEL:	0.1%	FINE SILT:	0.2%
V FINE GRAVEL:	0.2%	V FINE SILT:	0.2%
V COARSE SAND:	0.5%	CLAY:	0.2%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	209.9	182.1	2.458	180.2	2.473	Fine Sand
SORTING (σ):	222.3	1.614	0.691	1.321	0.401	Well Sorted
SKEWNESS (Sk):	17.04	-1.876	1.876	0.209	-0.209	Coarse Skewed
KURTOSIS (K):	397.8	27.24	27.24	0.970	0.970	Mesokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_33** ANALYST & DATE: Dan Gregory, 10/5/2012

SAMPLE TYPE: Unimodal, Well Sorted TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

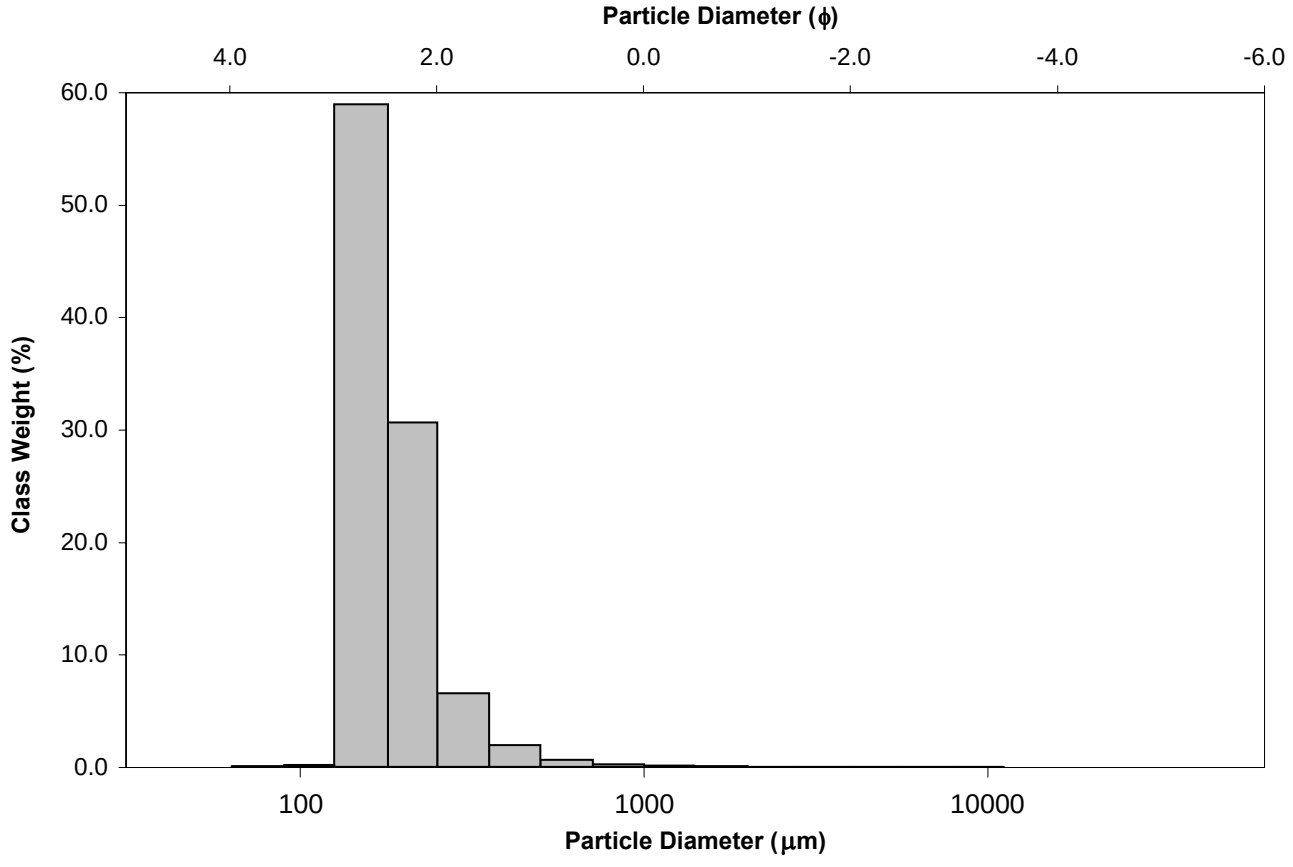
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	131.5	2.008
MEDIAN or D_{50}:	167.3	2.579
D_{90}:	248.7	2.927
(D_{90} / D_{10}):	1.891	1.458
(D_{90} - D_{10}):	117.2	0.919
(D_{75} / D_{25}):	1.452	1.238
(D_{75} - D_{25}):	65.04	0.538

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.2%	COARSE SAND:	0.9%
SAND:	98.5%	MEDIUM SAND:	8.3%
MUD:	1.3%	FINE SAND:	88.8%
		V FINE SAND:	0.3%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.2%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.2%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	0.2%
FINE GRAVEL:	0.1%	FINE SILT:	0.2%
V FINE GRAVEL:	0.1%	V FINE SILT:	0.2%
V COARSE SAND:	0.2%	CLAY:	0.2%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	199.7	173.2	2.530	174.2	2.521	Fine Sand
SORTING (σ):	269.5	1.617	0.693	1.313	0.393	Well Sorted
SKEWNESS (Sk):	25.39	-2.396	2.396	0.320	-0.320	Very Coarse Skewed
KURTOSIS (K):	772.6	29.34	29.34	1.010	1.010	Mesokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_34**

ANALYST & DATE: Dan Gregory, 10/5/2012

SAMPLE TYPE: Unimodal, Well Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

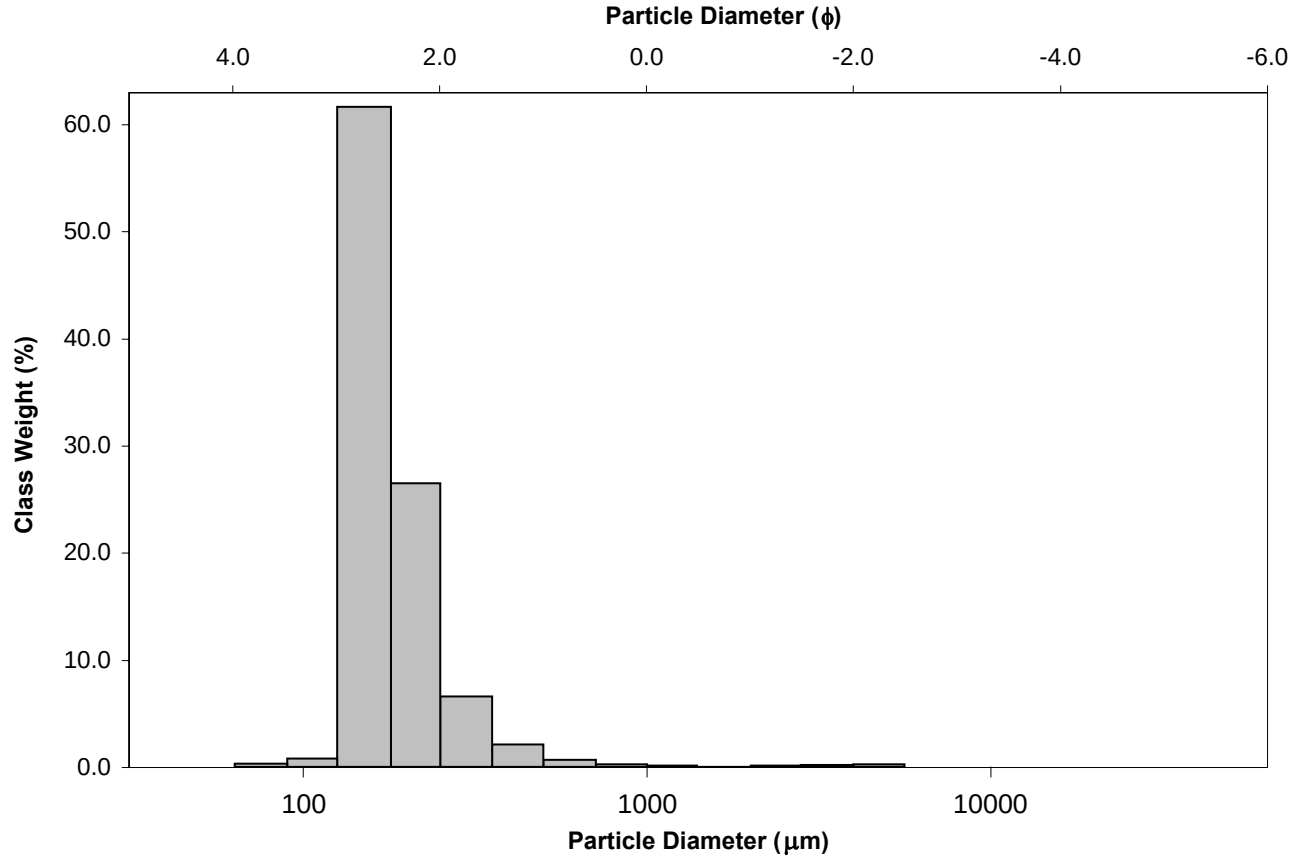
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	130.4	1.992
MEDIAN or D_{50}:	164.5	2.604
D_{90}:	251.3	2.938
(D_{90} / D_{10}):	1.927	1.475
(D_{90} - D_{10}):	120.9	0.946
(D_{75} / D_{25}):	1.437	1.228
(D_{75} - D_{25}):	62.17	0.523

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.6%	COARSE SAND:	0.9%
SAND:	97.8%	MEDIUM SAND:	8.4%
MUD:	1.6%	FINE SAND:	87.3%
		V FINE SAND:	1.0%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.3%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.3%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	0.3%
FINE GRAVEL:	0.2%	FINE SILT:	0.3%
V FINE GRAVEL:	0.3%	V FINE SILT:	0.3%
V COARSE SAND:	0.2%	CLAY:	0.3%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	208.6	171.4	2.545	172.5	2.536	Fine Sand
SORTING (σ):	297.0	1.718	0.781	1.322	0.403	Well Sorted
SKEWNESS (Sk):	12.36	-1.495	1.495	0.360	-0.360	Very Coarse Skewed
KURTOSIS (K):	172.7	23.97	23.97	1.082	1.082	Mesokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_35**

ANALYST & DATE: Dan Gregory, 10/5/2012

SAMPLE TYPE: Unimodal, Well Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Fine Gravelly Fine Sand

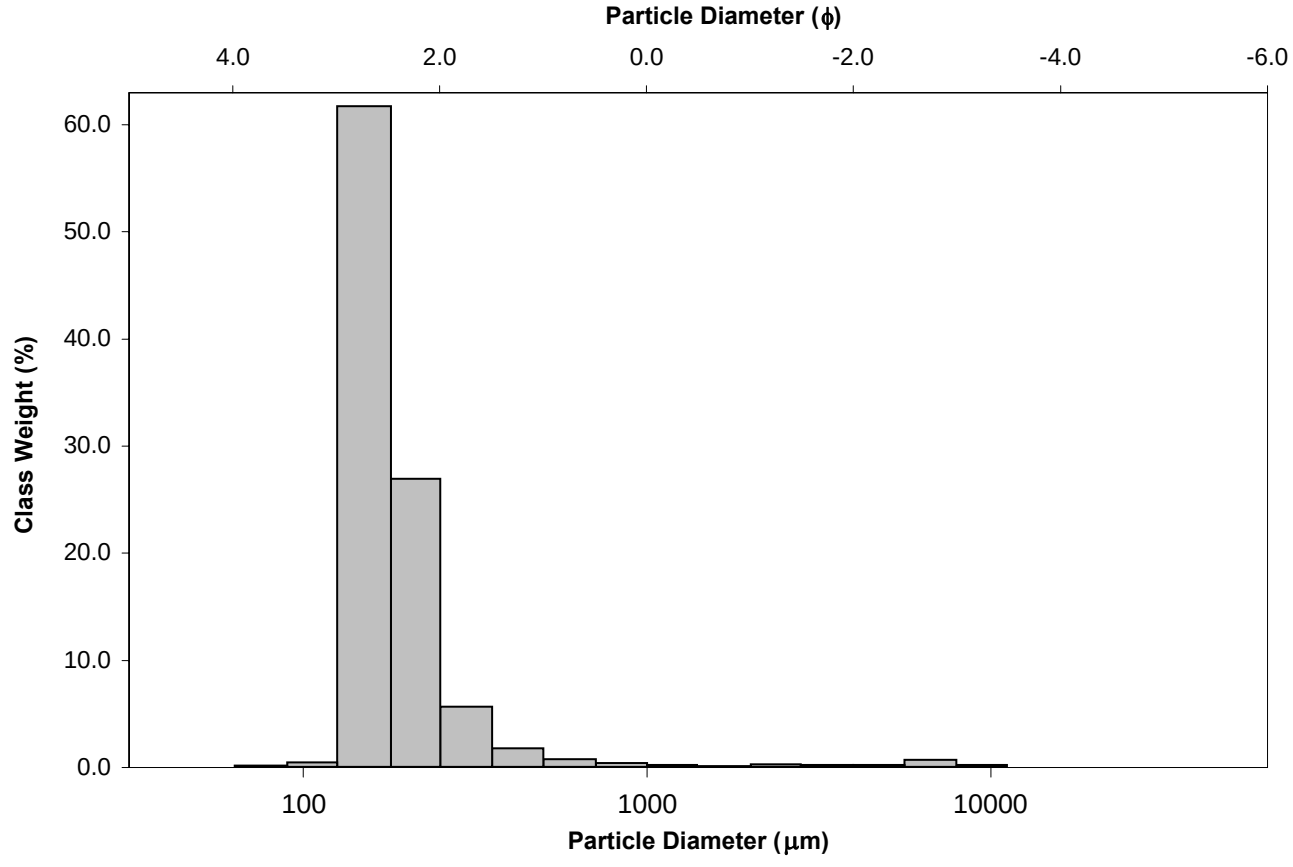
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	130.9	1.991
MEDIAN or D_{50}:	165.0	2.599
D_{90}:	251.6	2.933
(D_{90} / D_{10}):	1.921	1.473
(D_{90} - D_{10}):	120.7	0.942
(D_{75} / D_{25}):	1.438	1.229
(D_{75} - D_{25}):	62.49	0.524

GRAIN SIZE DISTRIBUTION

GRAVEL:	1.6%	COARSE SAND:	1.1%
SAND:	97.0%	MEDIUM SAND:	7.1%
MUD:	1.4%	FINE SAND:	87.9%
		V FINE SAND:	0.6%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.2%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.2%
MEDIUM GRAVEL:	0.2%	MEDIUM SILT:	0.2%
FINE GRAVEL:	0.9%	FINE SILT:	0.2%
V FINE GRAVEL:	0.5%	V FINE SILT:	0.2%
V COARSE SAND:	0.3%	CLAY:	0.2%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	275.9	178.9	2.483	172.9	2.532	Fine Sand
SORTING (σ):	753.2	1.884	0.913	1.330	0.411	Well Sorted
SKEWNESS (Sk):	9.180	1.079	-1.079	0.372	-0.372	Very Coarse Skewed
KURTOSIS (K):	93.10	22.48	22.48	1.130	1.130	Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_36**

ANALYST & DATE: michelle.grey, 10/5/2012

SAMPLE TYPE: Unimodal, Poorly Sorted

TEXTURAL GROUP: Gravelly Sand

SEDIMENT NAME: Fine Gravelly Fine Sand

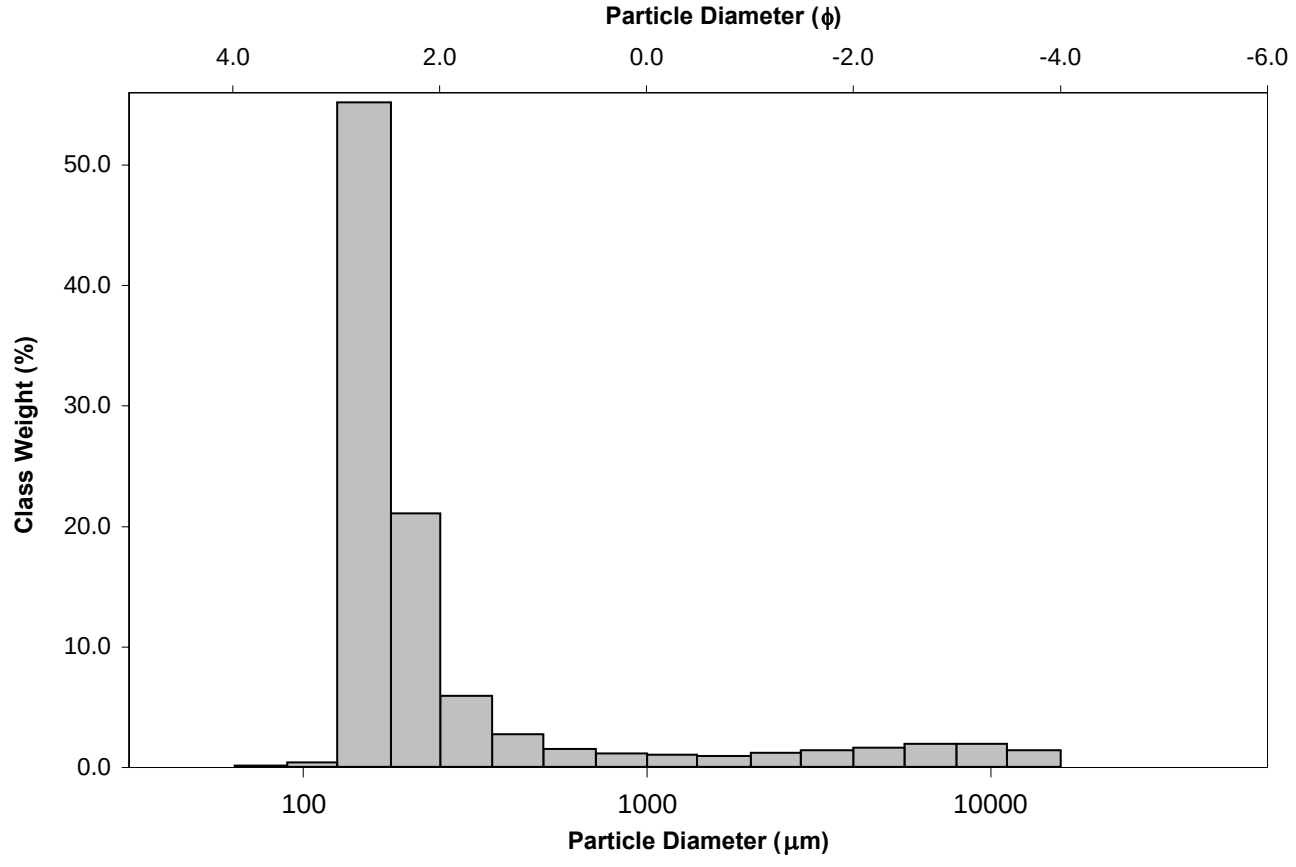
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	131.6	-0.608
MEDIAN or D_{50}:	170.5	2.552
D_{90}:	1524.6	2.925
(D_{90} / D_{10}):	11.58	-4.807
(D_{90} - D_{10}):	1393.0	3.534
(D_{75} / D_{25}):	1.642	1.346
(D_{75} - D_{25}):	93.16	0.716

GRAIN SIZE DISTRIBUTION

GRAVEL:	9.3%	COARSE SAND:	2.5%
SAND:	89.2%	MEDIUM SAND:	8.4%
MUD:	1.5%	FINE SAND:	75.9%
		V FINE SAND:	0.5%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.2%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.2%
MEDIUM GRAVEL:	3.2%	MEDIUM SILT:	0.2%
FINE GRAVEL:	3.5%	FINE SILT:	0.2%
V FINE GRAVEL:	2.6%	V FINE SILT:	0.2%
V COARSE SAND:	1.9%	CLAY:	0.2%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	853.7	250.2	1.999	205.1	2.285	Fine Sand
SORTING (σ):	2271.0	3.250	1.700	2.287	1.193	Poorly Sorted
SKEWNESS (Sk):	3.992	1.634	-1.634	0.703	-0.703	Very Coarse Skewed
KURTOSIS (K):	19.24	6.978	6.978	3.154	3.154	Extremely Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_37**

ANALYST & DATE: Tessa Caley, 10/8/2012

SAMPLE TYPE: Unimodal, Poorly Sorted

TEXTURAL GROUP: Gravelly Sand

SEDIMENT NAME: Medium Gravelly Fine Sand

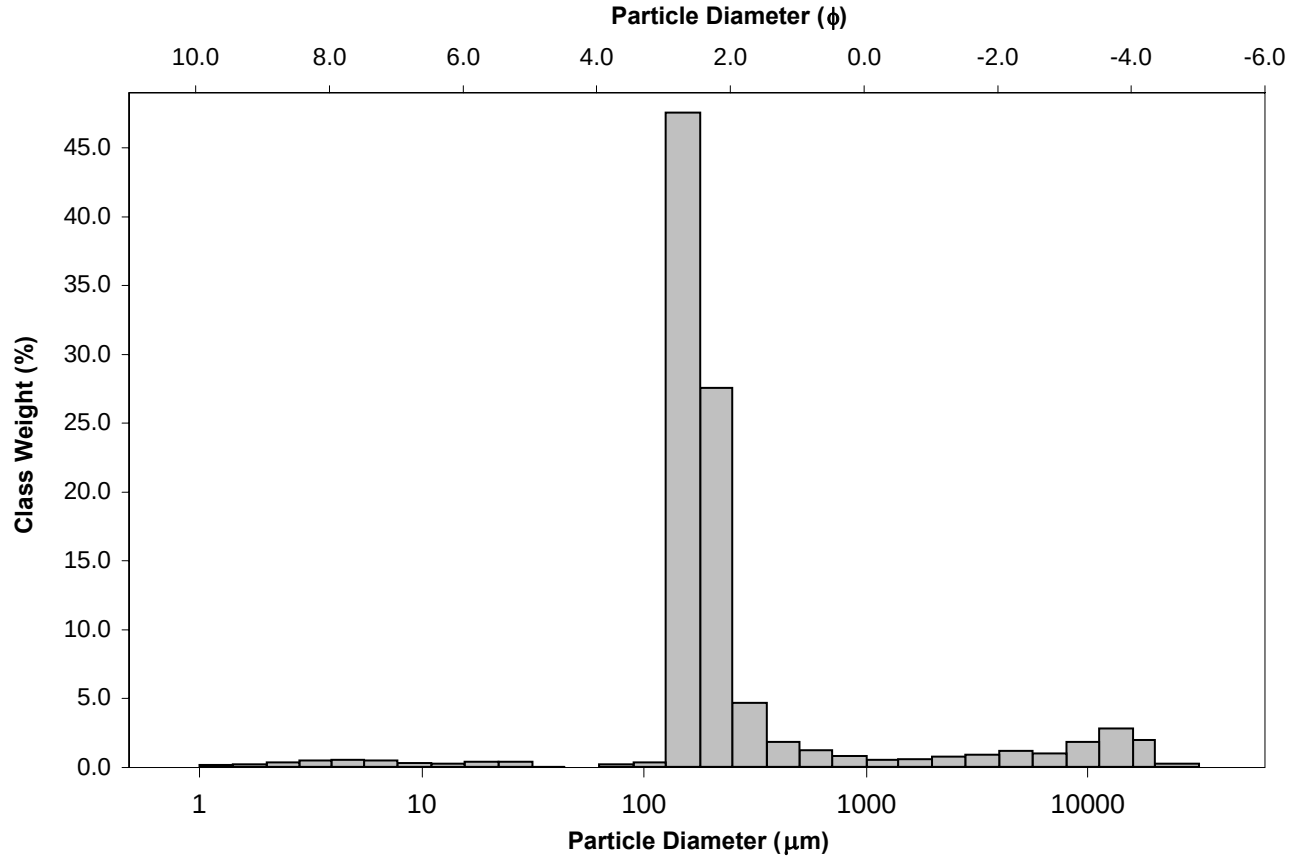
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	130.3	-1.073
MEDIAN or D_{50}:	174.6	2.518
D_{90}:	2103.5	2.940
(D_{90} / D_{10}):	16.14	-2.740
(D_{90} - D_{10}):	1973.2	4.013
(D_{75} / D_{25}):	1.609	1.328
(D_{75} - D_{25}):	88.58	0.686

GRAIN SIZE DISTRIBUTION

GRAVEL:	10.1%	COARSE SAND:	2.0%
SAND:	86.1%	MEDIUM SAND:	6.5%
MUD:	3.7%	FINE SAND:	75.9%
		V FINE SAND:	0.6%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.0%
COARSE GRAVEL:	1.6%	COARSE SILT:	0.8%
MEDIUM GRAVEL:	4.7%	MEDIUM SILT:	0.6%
FINE GRAVEL:	2.2%	FINE SILT:	1.0%
V FINE GRAVEL:	1.7%	V FINE SILT:	0.8%
V COARSE SAND:	1.1%	CLAY:	0.5%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	1234.7	242.9	2.041	198.7	2.331	Fine Sand
SORTING (σ):	3558.7	4.199	2.070	2.428	1.280	Poorly Sorted
SKEWNESS (Sk):	3.853	0.928	-0.928	0.645	-0.645	Very Coarse Skewed
KURTOSIS (K):	18.33	6.940	6.940	3.785	3.785	Extremely Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_38**

ANALYST & DATE: Tessa Caley, 10/8/2012

SAMPLE TYPE: Unimodal, Well Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Fine Gravelly Fine Sand

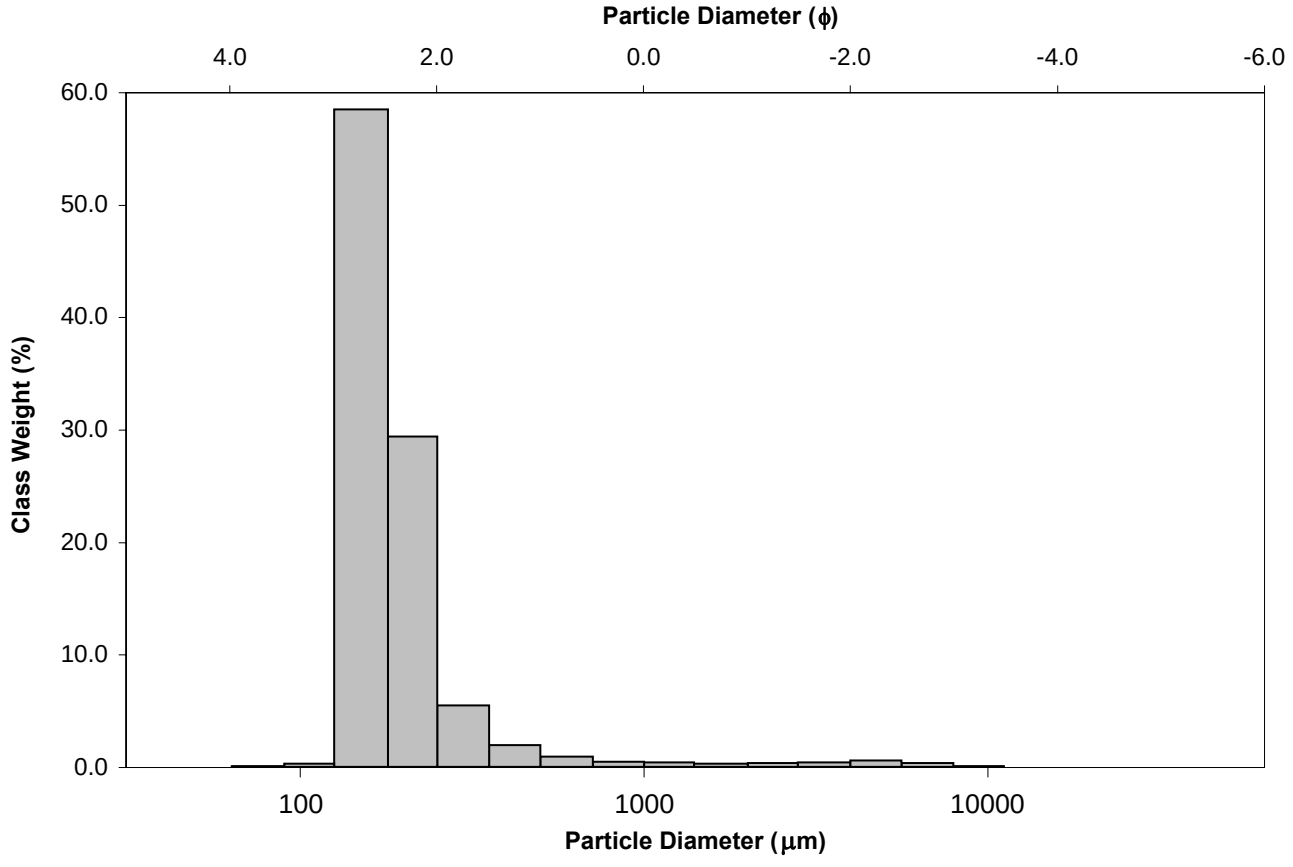
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	131.2	1.905
MEDIAN or D_{50}:	167.4	2.578
D_{90}:	267.0	2.930
(D_{90} / D_{10}):	2.035	1.538
(D_{90} - D_{10}):	135.8	1.025
(D_{75} / D_{25}):	1.468	1.247
(D_{75} - D_{25}):	67.26	0.554

GRAIN SIZE DISTRIBUTION

GRAVEL:	1.7%	COARSE SAND:	1.4%
SAND:	96.7%	MEDIUM SAND:	7.3%
MUD:	1.6%	FINE SAND:	86.9%
		V FINE SAND:	0.4%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.3%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.3%
MEDIUM GRAVEL:	0.1%	MEDIUM SILT:	0.3%
FINE GRAVEL:	0.9%	FINE SILT:	0.3%
V FINE GRAVEL:	0.7%	V FINE SILT:	0.3%
V COARSE SAND:	0.7%	CLAY:	0.3%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	272.7	181.8	2.459	175.0	2.514	Fine Sand
SORTING (σ):	636.2	1.945	0.959	1.363	0.446	Well Sorted
SKEWNESS (Sk):	8.835	0.496	-0.496	0.381	-0.381	Very Coarse Skewed
KURTOSIS (K):	91.66	18.44	18.44	1.216	1.216	Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_39**

ANALYST & DATE: Tessa Caley, 10/8/2012

SAMPLE TYPE: Unimodal, Well Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

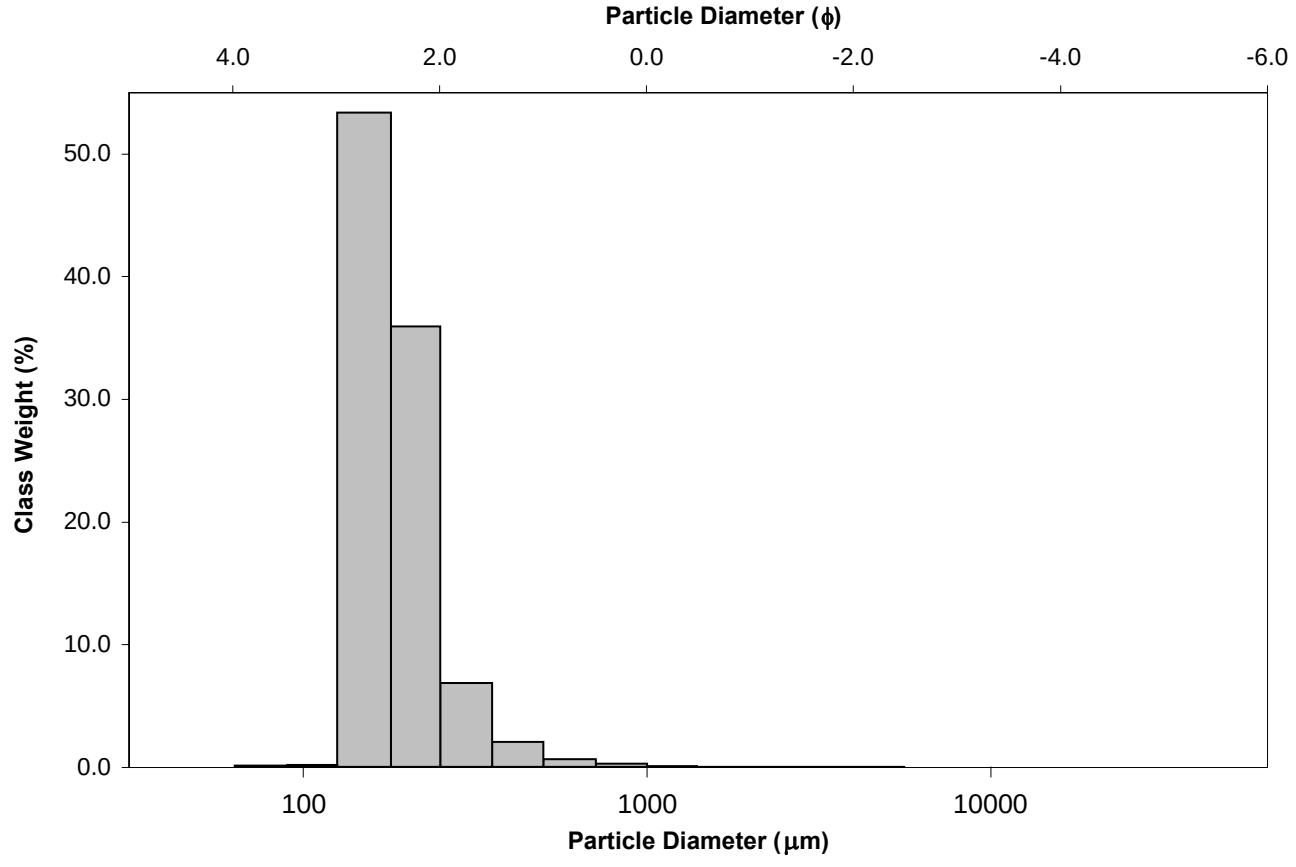
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	132.2	2.001
MEDIAN or D_{50}:	172.3	2.537
D_{90}:	249.8	2.919
(D_{90} / D_{10}):	1.889	1.459
(D_{90} - D_{10}):	117.6	0.918
(D_{75} / D_{25}):	1.476	1.254
(D_{75} - D_{25}):	69.55	0.562

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.1%	COARSE SAND:	0.9%
SAND:	98.7%	MEDIUM SAND:	8.8%
MUD:	1.2%	FINE SAND:	88.6%
		V FINE SAND:	0.3%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.2%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.2%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	0.2%
FINE GRAVEL:	0.0%	FINE SILT:	0.2%
V FINE GRAVEL:	0.1%	V FINE SILT:	0.2%
V COARSE SAND:	0.1%	CLAY:	0.2%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	197.4	176.9	2.499	177.4	2.495	Fine Sand
SORTING (σ):	145.1	1.581	0.661	1.316	0.396	Well Sorted
SKEWNESS (Sk):	18.72	-2.983	2.983	0.259	-0.259	Coarse Skewed
KURTOSIS (K):	503.9	29.70	29.70	0.972	0.972	Mesokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_40**

ANALYST & DATE: Tessa Caley, 10/8/2012

SAMPLE TYPE: Unimodal, Well Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

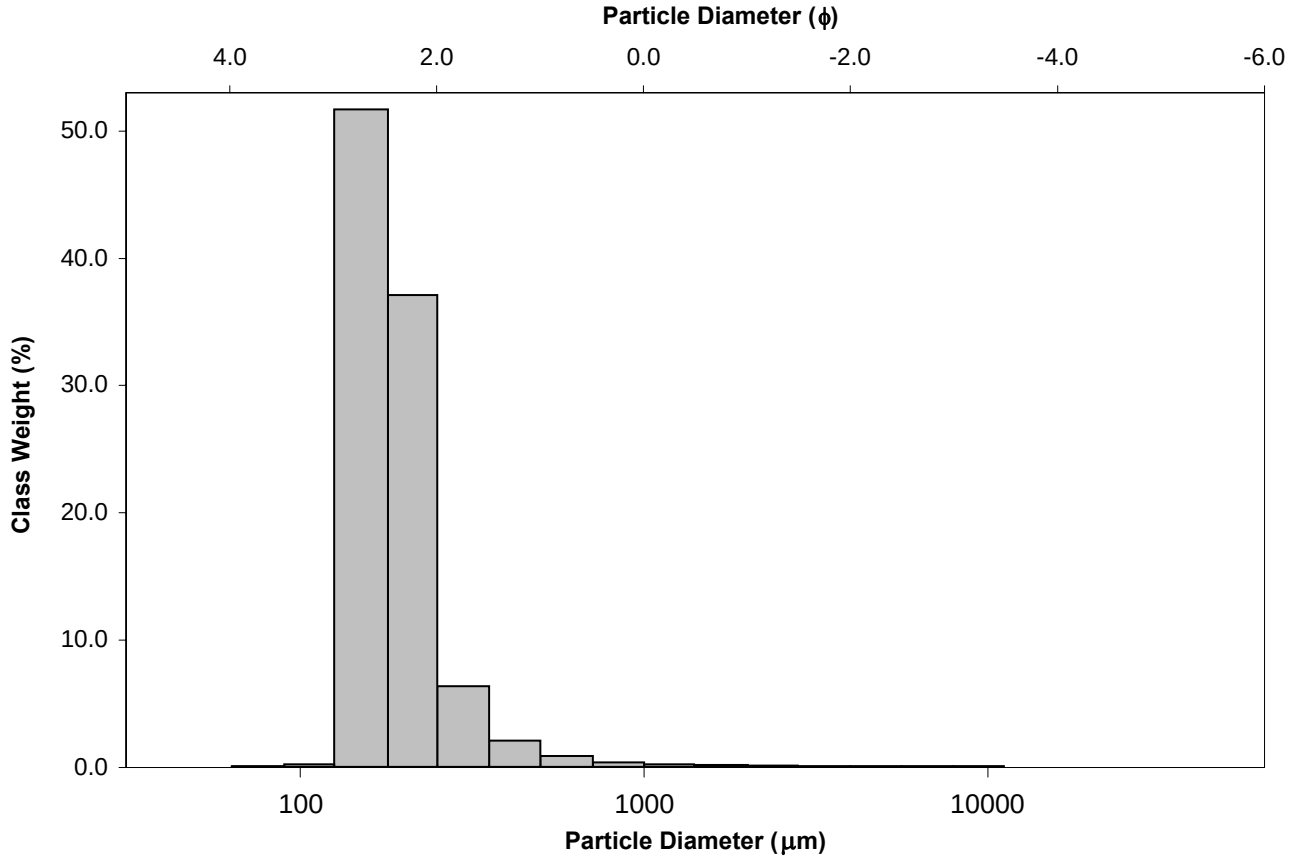
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	132.3	1.963
MEDIAN or D_{50}:	173.9	2.523
D_{90}:	256.6	2.918
(D_{90} / D_{10}):	1.939	1.487
(D_{90} - D_{10}):	124.2	0.955
(D_{75} / D_{25}):	1.485	1.259
(D_{75} - D_{25}):	71.08	0.570

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.4%	COARSE SAND:	1.2%
SAND:	98.2%	MEDIUM SAND:	8.4%
MUD:	1.3%	FINE SAND:	87.9%
		V FINE SAND:	0.3%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.2%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.2%
MEDIUM GRAVEL:	0.1%	MEDIUM SILT:	0.2%
FINE GRAVEL:	0.1%	FINE SILT:	0.2%
V FINE GRAVEL:	0.2%	V FINE SILT:	0.2%
V COARSE SAND:	0.4%	CLAY:	0.2%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	219.1	180.4	2.470	178.5	2.486	Fine Sand
SORTING (σ):	364.9	1.686	0.754	1.327	0.408	Well Sorted
SKEWNESS (Sk):	18.26	-1.342	1.342	0.256	-0.256	Coarse Skewed
KURTOSIS (K):	401.9	25.67	25.67	1.008	1.008	Mesokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_41**

ANALYST & DATE: Tessa Caley, 10/8/2012

SAMPLE TYPE: Unimodal, Well Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

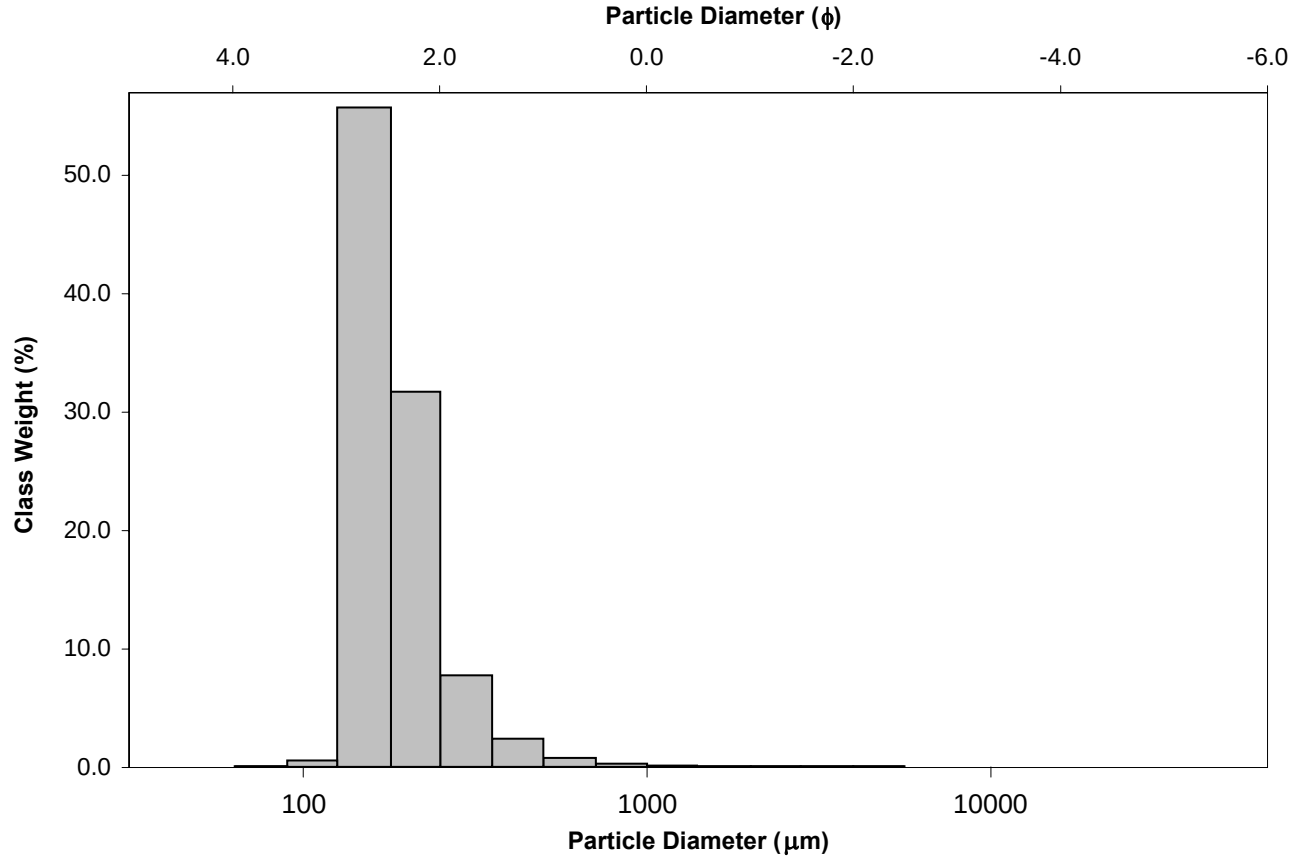
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	131.8	1.908
MEDIAN or D_{50}:	169.9	2.557
D_{90}:	266.4	2.923
(D_{90} / D_{10}):	2.021	1.532
(D_{90} - D_{10}):	134.6	1.015
(D_{75} / D_{25}):	1.482	1.256
(D_{75} - D_{25}):	69.87	0.568

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.2%	COARSE SAND:	1.0%
SAND:	98.8%	MEDIUM SAND:	10.0%
MUD:	1.0%	FINE SAND:	87.0%
		V FINE SAND:	0.6%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.2%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.2%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	0.2%
FINE GRAVEL:	0.1%	FINE SILT:	0.2%
V FINE GRAVEL:	0.1%	V FINE SILT:	0.2%
V COARSE SAND:	0.2%	CLAY:	0.2%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	200.2	177.8	2.492	176.8	2.500	Fine Sand
SORTING (σ):	167.7	1.572	0.653	1.328	0.409	Well Sorted
SKEWNESS (Sk):	17.14	-2.278	2.278	0.312	-0.312	Very Coarse Skewed
KURTOSIS (K):	401.1	28.29	28.29	1.003	1.003	Mesokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_42**

ANALYST & DATE: Tessa Caley, 10/8/2012

SAMPLE TYPE: Unimodal, Well Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

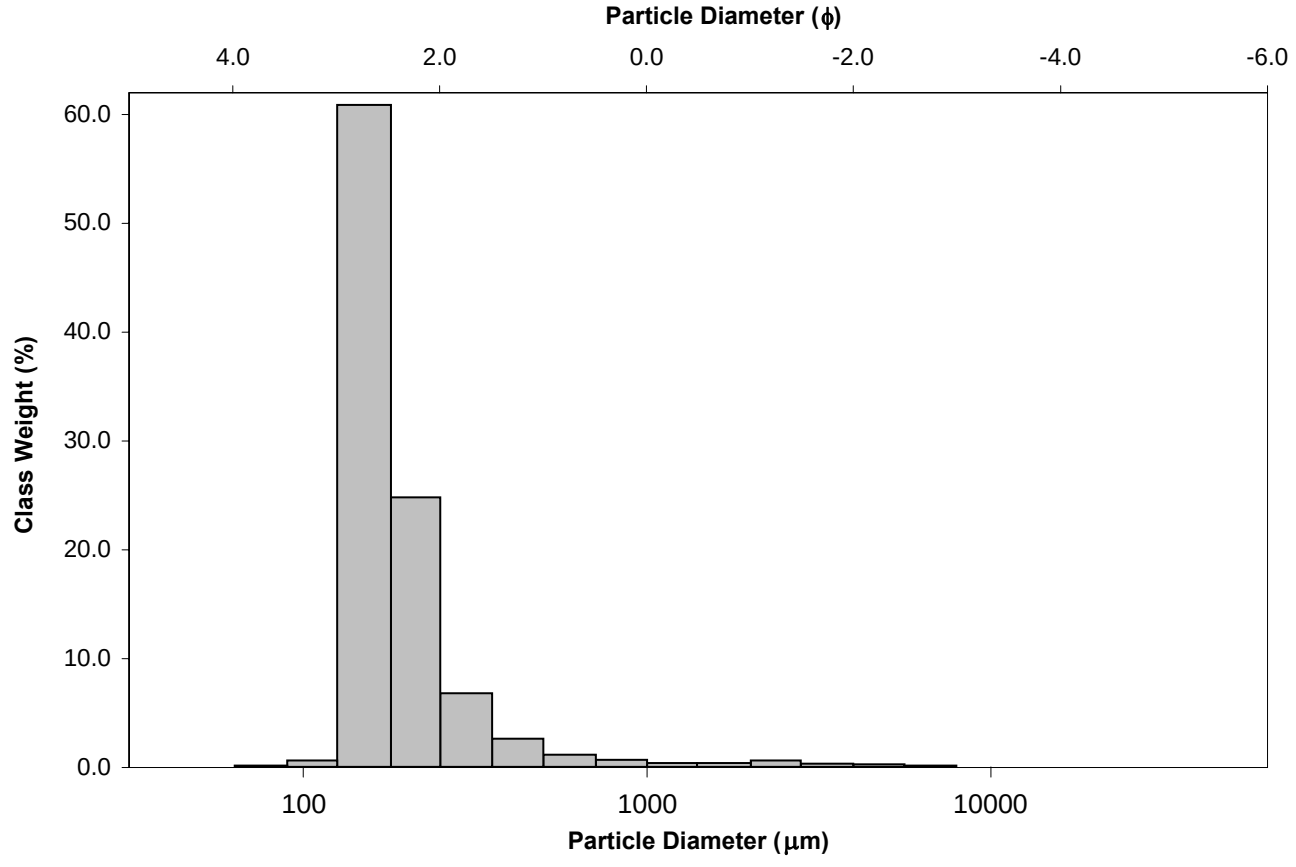
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	130.8	1.782
MEDIAN or D_{50}:	165.4	2.596
D_{90}:	290.8	2.935
(D_{90} / D_{10}):	2.224	1.647
(D_{90} - D_{10}):	160.1	1.153
(D_{75} / D_{25}):	1.469	1.246
(D_{75} - D_{25}):	66.97	0.555

GRAIN SIZE DISTRIBUTION

GRAVEL:	1.3%	COARSE SAND:	1.7%
SAND:	97.1%	MEDIUM SAND:	9.1%
MUD:	1.6%	FINE SAND:	84.8%
		V FINE SAND:	0.7%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.3%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.3%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	0.3%
FINE GRAVEL:	0.4%	FINE SILT:	0.3%
V FINE GRAVEL:	0.9%	V FINE SILT:	0.3%
V COARSE SAND:	0.8%	CLAY:	0.3%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	244.7	179.8	2.475	174.9	2.515	Fine Sand
SORTING (σ):	443.7	1.877	0.908	1.382	0.466	Well Sorted
SKEWNESS (Sk):	9.564	-0.147	0.147	0.427	-0.427	Very Coarse Skewed
KURTOSIS (K):	112.0	17.82	17.82	1.276	1.276	Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_43**

ANALYST & DATE: Tessa Caley, 10/8/2012

SAMPLE TYPE: Unimodal, Well Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

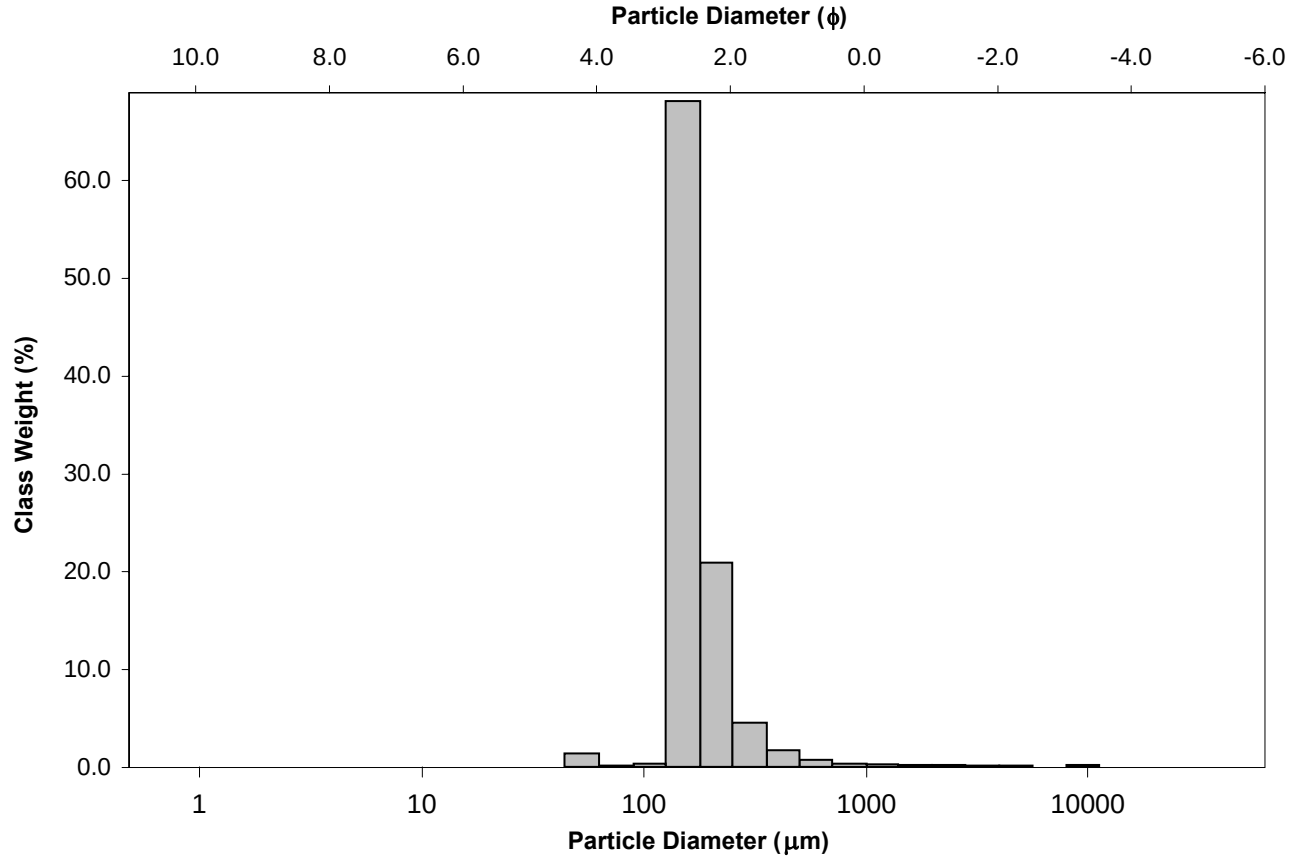
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	130.4	2.037
MEDIAN or D_{50}:	160.5	2.639
D_{90}:	243.7	2.939
(D_{90} / D_{10}):	1.869	1.443
(D_{90} - D_{10}):	113.3	0.902
(D_{75} / D_{25}):	1.342	1.176
(D_{75} - D_{25}):	48.16	0.424

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.8%	COARSE SAND:	1.1%
SAND:	97.8%	MEDIUM SAND:	6.1%
MUD:	1.4%	FINE SAND:	89.6%
		V FINE SAND:	0.5%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	1.4%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.0%
MEDIUM GRAVEL:	0.2%	MEDIUM SILT:	0.0%
FINE GRAVEL:	0.1%	FINE SILT:	0.0%
V FINE GRAVEL:	0.4%	V FINE SILT:	0.0%
V COARSE SAND:	0.5%	CLAY:	0.0%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	226.8	174.6	2.518	168.1	2.572	Fine Sand
SORTING (σ):	538.2	1.559	0.641	1.306	0.386	Well Sorted
SKEWNESS (Sk):	14.54	4.049	-4.049	0.396	-0.396	Very Coarse Skewed
KURTOSIS (K):	239.0	30.92	30.92	1.326	1.326	Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_44**

ANALYST & DATE: Tessa Caley, 10/8/2012

SAMPLE TYPE: Unimodal, Well Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Fine Gravelly Fine Sand

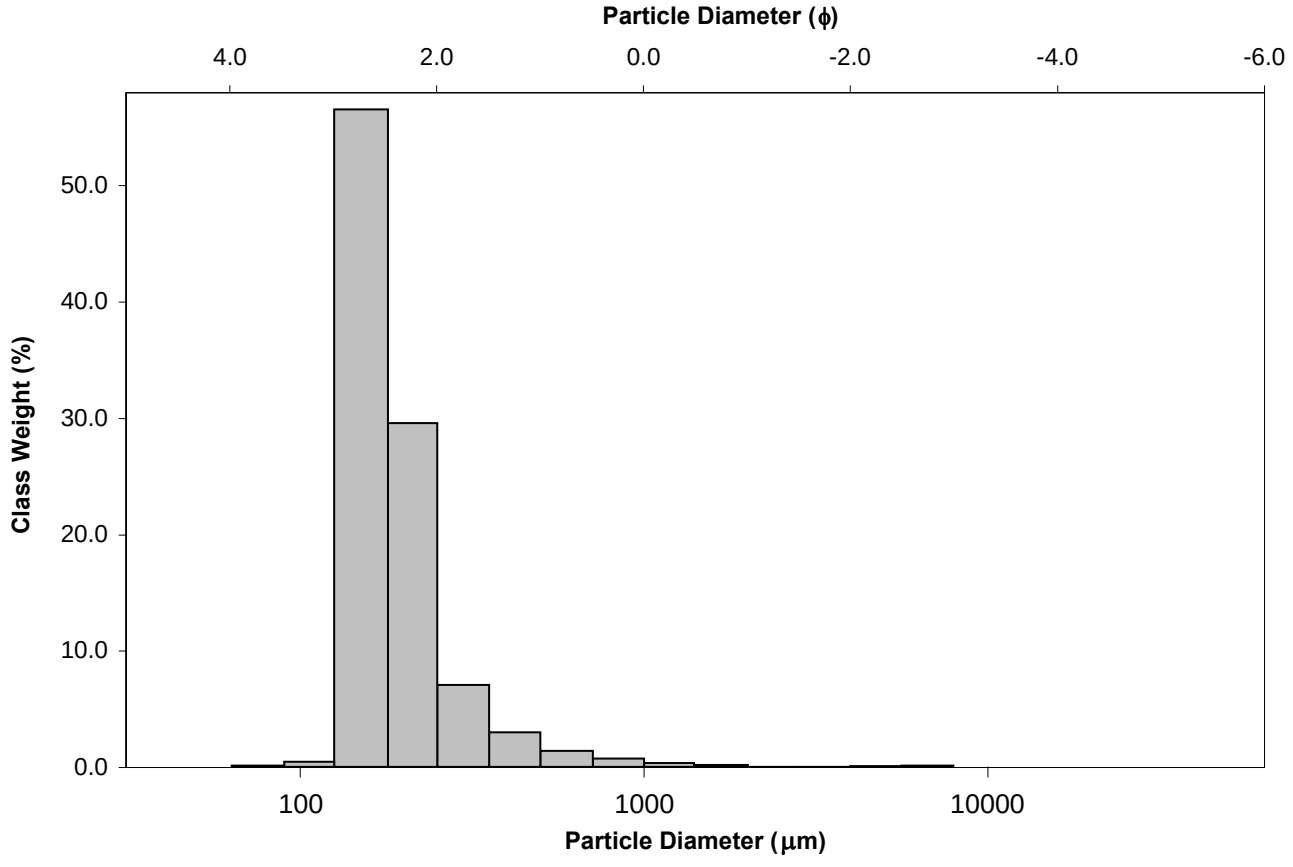
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	131.5	1.808
MEDIAN or D_{50}:	169.0	2.565
D_{90}:	285.6	2.927
(D_{90} / D_{10}):	2.172	1.619
(D_{90} - D_{10}):	154.1	1.119
(D_{75} / D_{25}):	1.491	1.260
(D_{75} - D_{25}):	71.01	0.577

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.3%	COARSE SAND:	2.1%
SAND:	98.4%	MEDIUM SAND:	9.8%
MUD:	1.3%	FINE SAND:	85.4%
		V FINE SAND:	0.6%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.2%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.2%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	0.2%
FINE GRAVEL:	0.2%	FINE SILT:	0.2%
V FINE GRAVEL:	0.1%	V FINE SILT:	0.2%
V COARSE SAND:	0.5%	CLAY:	0.2%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	216.6	179.7	2.476	177.0	2.499	Fine Sand
SORTING (σ):	301.2	1.705	0.770	1.362	0.446	Well Sorted
SKEWNESS (Sk):	16.59	-1.332	1.332	0.367	-0.367	Very Coarse Skewed
KURTOSIS (K):	333.8	22.23	22.23	1.136	1.136	Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_45**

ANALYST & DATE: Tessa Caley, 10/8/2012

SAMPLE TYPE: Unimodal, Well Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Medium Gravelly Fine Sand

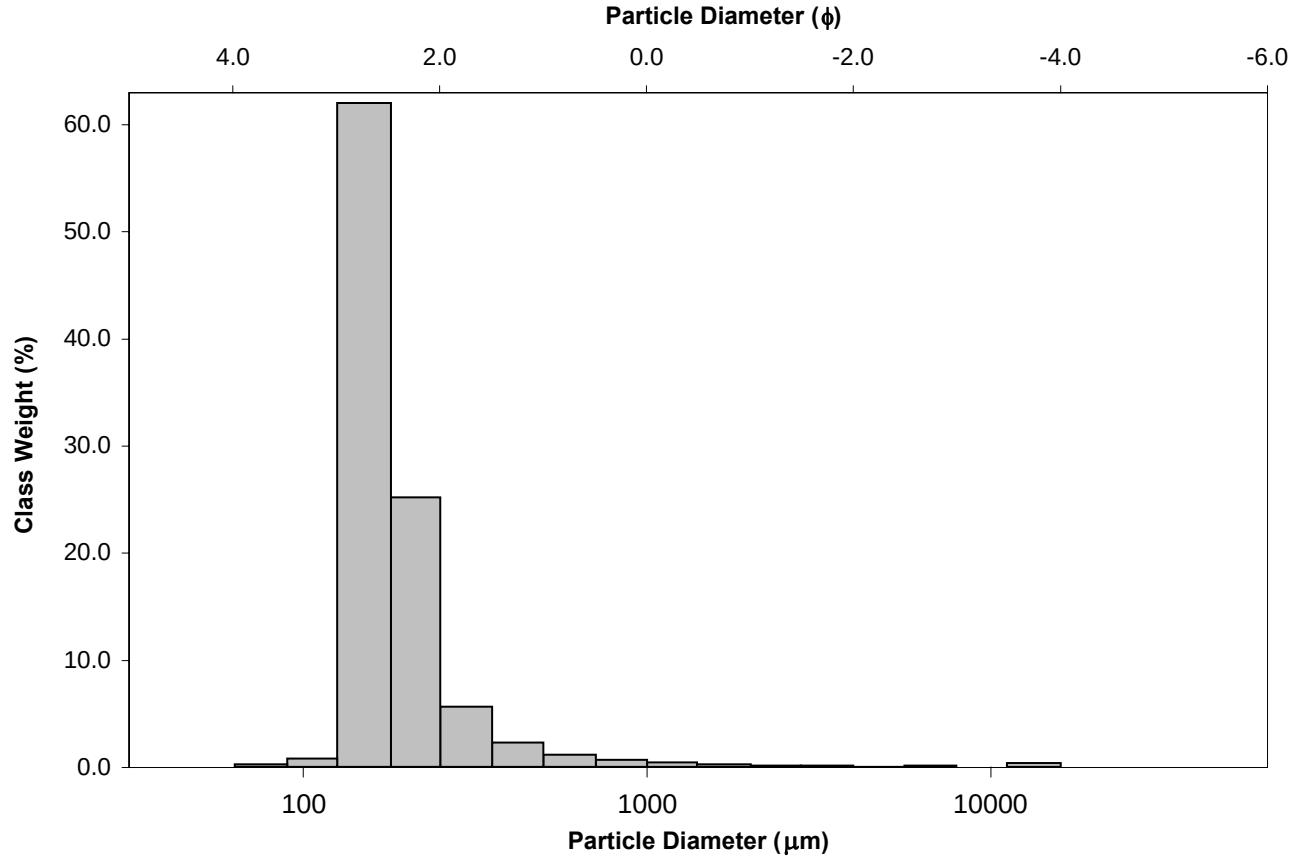
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	130.8	1.902
MEDIAN or D_{50}:	164.5	2.604
D_{90}:	267.5	2.935
(D_{90} / D_{10}):	2.045	1.543
(D_{90} - D_{10}):	136.7	1.032
(D_{75} / D_{25}):	1.440	1.230
(D_{75} - D_{25}):	62.77	0.526

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.9%	COARSE SAND:	1.7%
SAND:	98.0%	MEDIUM SAND:	7.7%
MUD:	1.1%	FINE SAND:	86.8%
		V FINE SAND:	1.0%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.2%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.2%
MEDIUM GRAVEL:	0.4%	MEDIUM SILT:	0.2%
FINE GRAVEL:	0.2%	FINE SILT:	0.2%
V FINE GRAVEL:	0.3%	V FINE SILT:	0.2%
V COARSE SAND:	0.7%	CLAY:	0.2%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	273.6	179.8	2.476	173.2	2.530	Fine Sand
SORTING (σ):	923.5	1.807	0.853	1.356	0.439	Well Sorted
SKEWNESS (Sk):	13.07	1.297	-1.297	0.409	-0.409	Very Coarse Skewed
KURTOSIS (K):	182.9	25.64	25.64	1.250	1.250	Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_46**

ANALYST & DATE: Tessa Caley, 10/8/2012

SAMPLE TYPE: Unimodal, Well Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

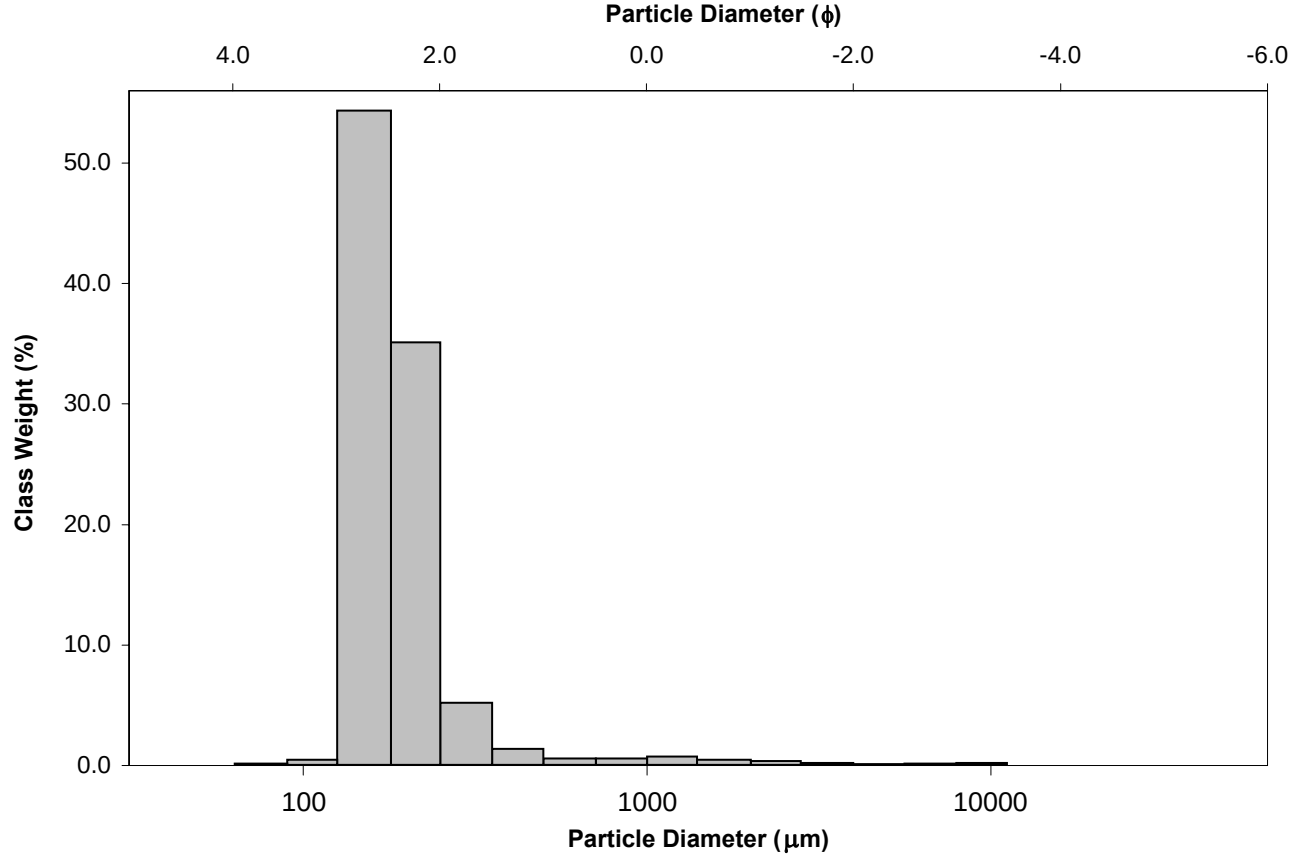
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	131.9	2.007
MEDIAN or D_{50}:	171.1	2.547
D_{90}:	248.8	2.922
(D_{90} / D_{10}):	1.886	1.456
(D_{90} - D_{10}):	116.9	0.916
(D_{75} / D_{25}):	1.471	1.250
(D_{75} - D_{25}):	68.54	0.557

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.9%	COARSE SAND:	1.0%
SAND:	97.9%	MEDIUM SAND:	6.5%
MUD:	1.2%	FINE SAND:	88.7%
		V FINE SAND:	0.6%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.2%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.2%
MEDIUM GRAVEL:	0.2%	MEDIUM SILT:	0.2%
FINE GRAVEL:	0.2%	FINE SILT:	0.2%
V FINE GRAVEL:	0.5%	V FINE SILT:	0.2%
V COARSE SAND:	1.2%	CLAY:	0.2%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	243.9	182.4	2.455	176.5	2.503	Fine Sand
SORTING (σ):	522.1	1.766	0.820	1.326	0.407	Well Sorted
SKEWNESS (Sk):	13.23	0.297	-0.297	0.289	-0.289	Coarse Skewed
KURTOSIS (K):	208.5	22.73	22.73	1.040	1.040	Mesokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_48**

ANALYST & DATE: Tessa Caley, 10/8/2012

SAMPLE TYPE: Bimodal, Poorly Sorted

TEXTURAL GROUP: Gravel

SEDIMENT NAME: Coarse Gravel

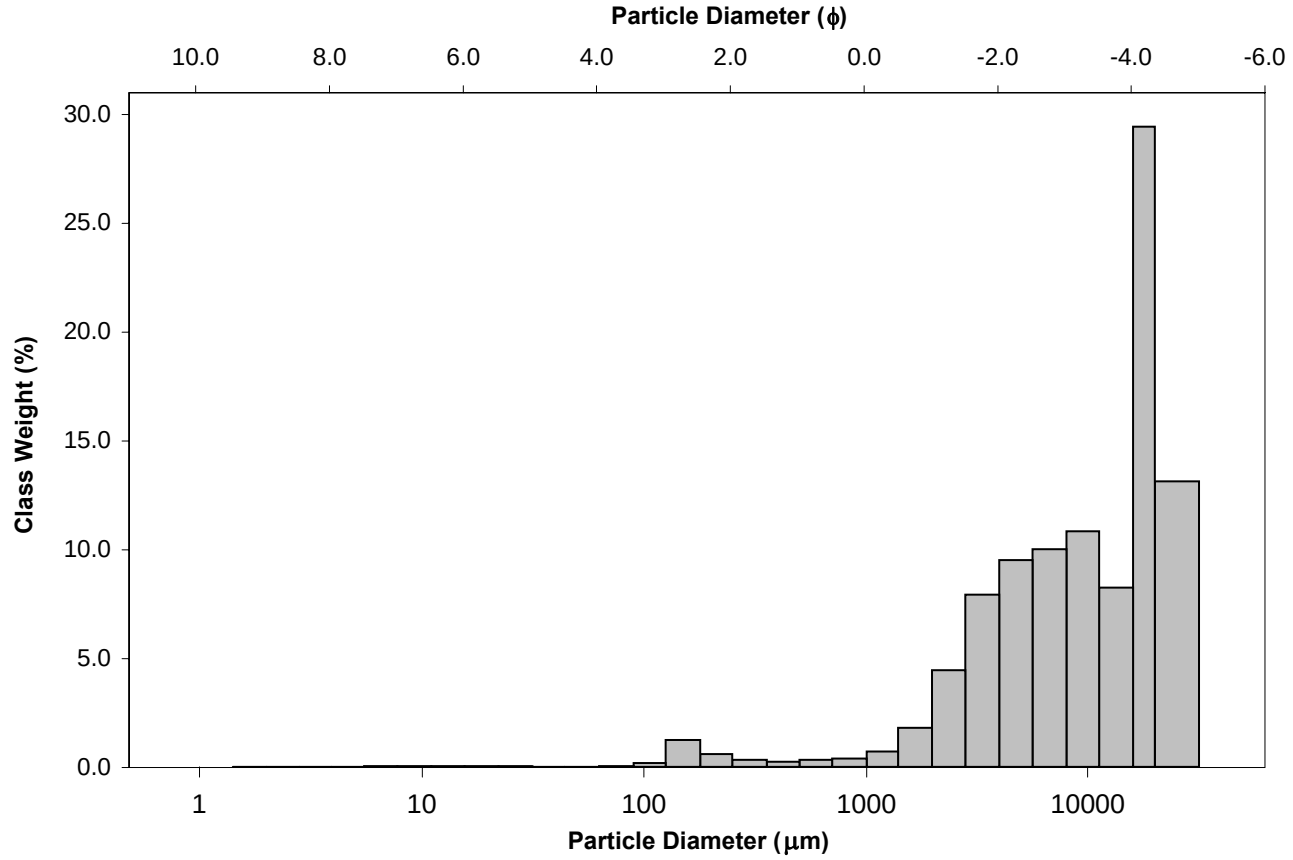
	μm	ϕ
MODE 1:	18000.0	-4.161
MODE 2:	9600.0	-3.243
MODE 3:		
D_{10}:	2548.0	-4.622
MEDIAN or D_{50}:	10493.5	-3.391
D_{90}:	24621.4	-1.349
(D_{90} / D_{10}):	9.663	0.292
(D_{90} - D_{10}):	22073.4	3.272
(D_{75} / D_{25}):	3.926	0.532
(D_{75} - D_{25}):	13868.9	1.973

GRAIN SIZE DISTRIBUTION

GRAVEL:	93.3%	COARSE SAND:	0.8%
SAND:	6.4%	MEDIUM SAND:	0.6%
MUD:	0.3%	FINE SAND:	2.0%
		V FINE SAND:	0.2%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.0%
COARSE GRAVEL:	38.7%	COARSE SILT:	0.1%
MEDIUM GRAVEL:	20.3%	MEDIUM SILT:	0.1%
FINE GRAVEL:	20.9%	FINE SILT:	0.1%
V FINE GRAVEL:	13.4%	V FINE SILT:	0.0%
V COARSE SAND:	2.7%	CLAY:	0.0%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	12403.6	8369.2	-3.065	9110.6	-3.188	Medium Gravel
SORTING (σ):	8371.1	3.019	1.594	2.467	1.303	Poorly Sorted
SKEWNESS (Sk):	0.331	-1.925	1.925	-0.283	0.283	Fine Skewed
KURTOSIS (K):	1.784	9.078	9.078	0.879	0.879	Platykurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_49**

ANALYST & DATE: Tessa Caley, 10/8/2012

SAMPLE TYPE: Polymodal, Very Poorly Sorted

TEXTURAL GROUP: Sandy Gravel

SEDIMENT NAME: Sandy Coarse Gravel

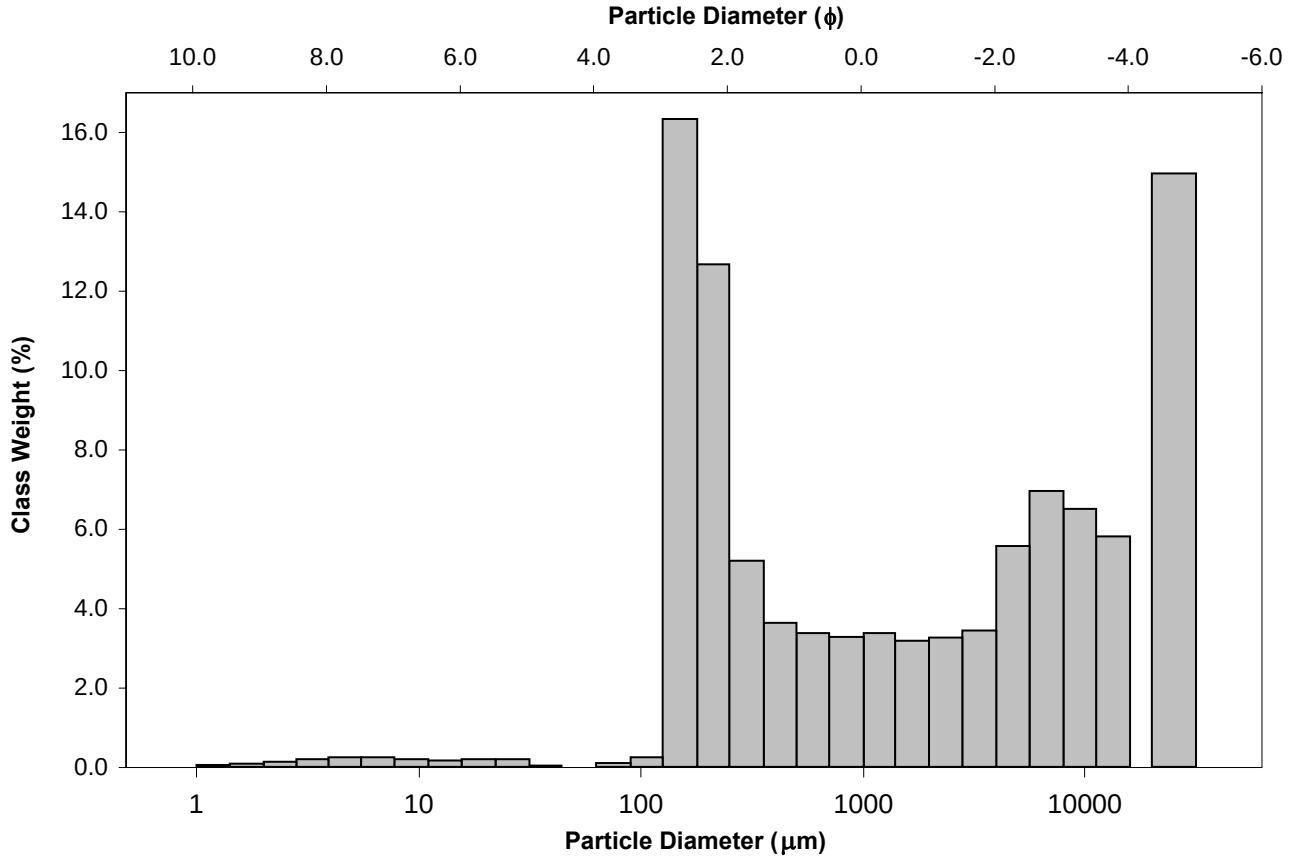
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:	25750.0	-4.650
MODE 3:	6800.0	-2.743
D_{10}:	149.3	-4.628
MEDIAN or D_{50}:	1780.9	-0.833
D_{90}:	24727.3	2.744
(D_{90} / D_{10}):	165.7	-0.593
(D_{90} - D_{10}):	24578.0	7.372
(D_{75} / D_{25}):	50.15	-0.640
(D_{75} - D_{25}):	10670.0	5.648

GRAIN SIZE DISTRIBUTION

GRAVEL:	49.0%	COARSE SAND:	6.4%
SAND:	49.3%	MEDIUM SAND:	8.4%
MUD:	1.7%	FINE SAND:	27.9%
		V FINE SAND:	0.3%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.0%
COARSE GRAVEL:	18.8%	COARSE SILT:	0.4%
MEDIUM GRAVEL:	11.8%	MEDIUM SILT:	0.3%
FINE GRAVEL:	12.0%	FINE SILT:	0.5%
V FINE GRAVEL:	6.4%	V FINE SILT:	0.3%
V COARSE SAND:	6.3%	CLAY:	0.2%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	7311.0	1640.7	-0.714	1865.6	-0.900	Very Coarse Sand
SORTING (σ):	9605.0	7.892	2.980	7.518	2.910	Very Poorly Sorted
SKEWNESS (Sk):	1.147	-0.192	0.192	0.030	-0.030	Symmetrical
KURTOSIS (K):	2.700	2.080	2.080	0.559	0.559	Very Platykurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_50**

ANALYST & DATE: Tessa Caley, 10/8/2012

SAMPLE TYPE: Trimodal, Very Poorly Sorted

TEXTURAL GROUP: Gravel

SEDIMENT NAME: Coarse Gravel

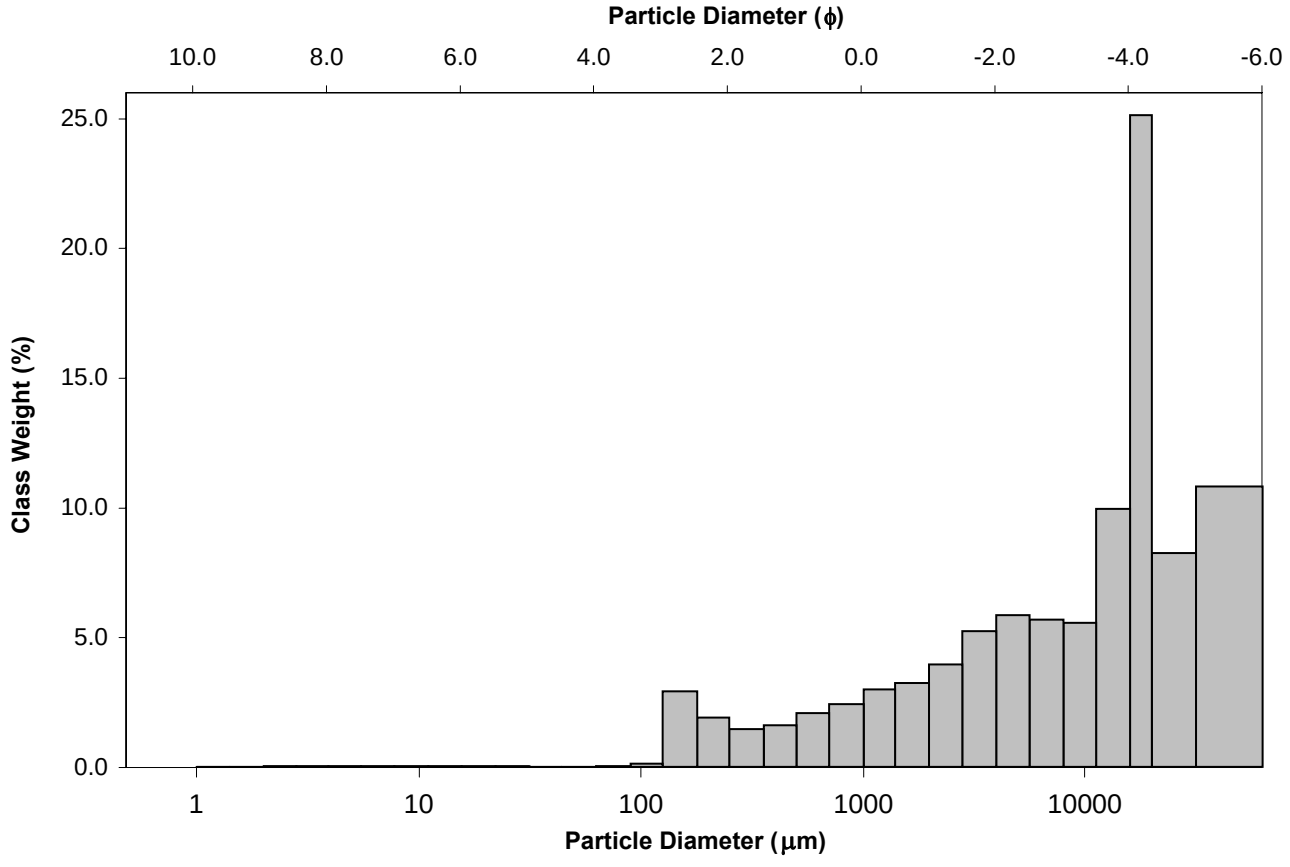
	μm	ϕ
MODE 1:	18000.0	-4.161
MODE 2:	47250.0	-5.477
MODE 3:	4800.0	-2.243
D_{10}:	694.2	-5.496
MEDIAN or D_{50}:	14178.7	-3.826
D_{90}:	45132.0	0.526
(D_{90} / D_{10}):	65.01	-0.096
(D_{90} - D_{10}):	44437.7	6.023
(D_{75} / D_{25}):	7.663	0.376
(D_{75} - D_{25}):	22768.3	2.938

GRAIN SIZE DISTRIBUTION

GRAVEL:	81.6%	COARSE SAND:	4.3%
SAND:	18.1%	MEDIUM SAND:	2.9%
MUD:	0.3%	FINE SAND:	4.7%
		V FINE SAND:	0.2%
V COARSE GRAVEL:	20.3%	V COARSE SILT:	0.0%
COARSE GRAVEL:	26.4%	COARSE SILT:	0.1%
MEDIUM GRAVEL:	15.0%	MEDIUM SILT:	0.1%
FINE GRAVEL:	11.1%	FINE SILT:	0.1%
V FINE GRAVEL:	8.9%	V FINE SILT:	0.1%
V COARSE SAND:	6.0%	CLAY:	0.0%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	18160.8	8172.2	-3.031	9281.8	-3.214	Medium Gravel
SORTING (σ):	16761.1	5.010	2.325	5.024	2.329	Very Poorly Sorted
SKEWNESS (Sk):	0.769	-1.150	1.150	-0.454	0.454	Very Fine Skewed
KURTOSIS (K):	2.203	4.018	4.018	1.086	1.086	Mesokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_51**

ANALYST & DATE: Tessa Caley, 10/8/2012

SAMPLE TYPE: Unimodal, Well Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

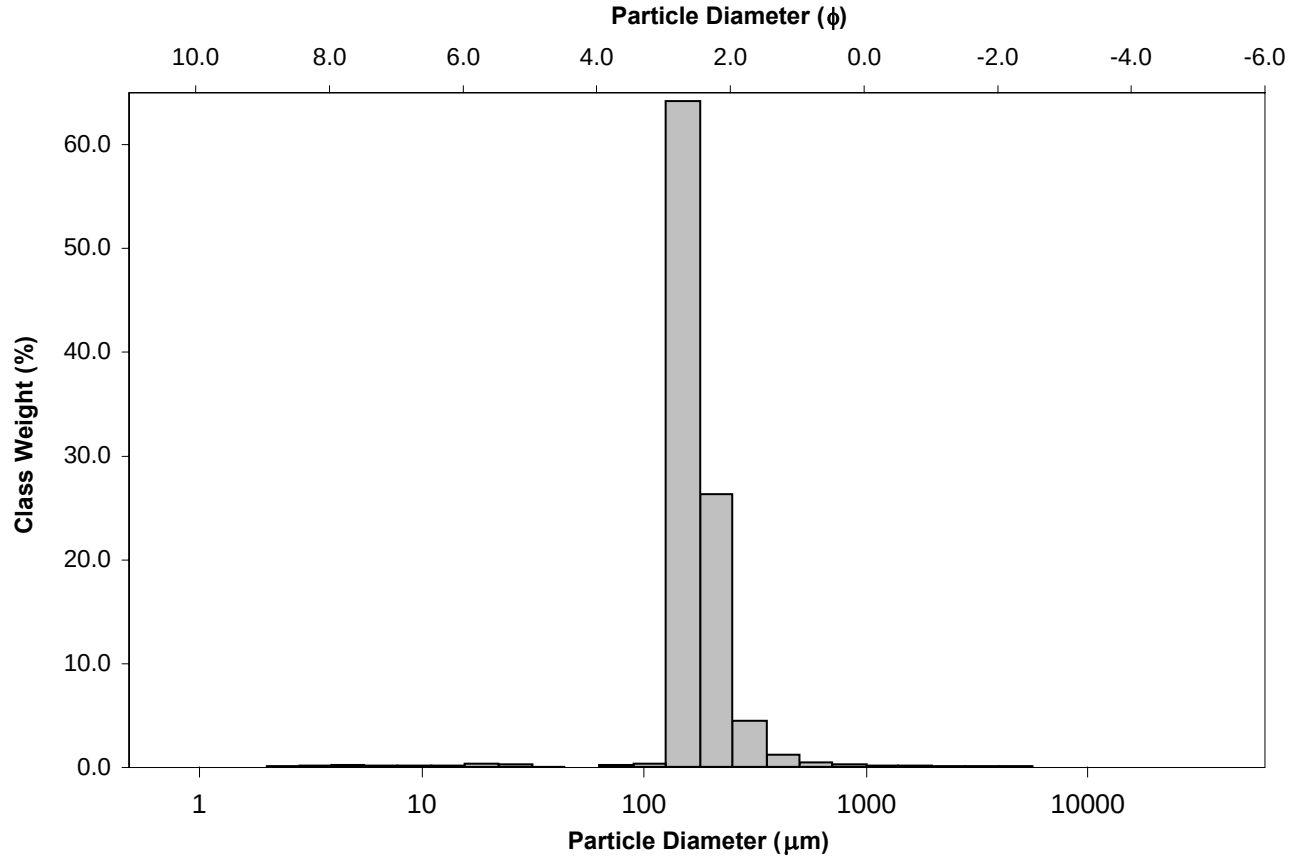
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	130.6	2.059
MEDIAN or D_{50}:	162.6	2.621
D_{90}:	240.0	2.937
(D_{90} / D_{10}):	1.838	1.426
(D_{90} - D_{10}):	109.4	0.878
(D_{75} / D_{25}):	1.385	1.200
(D_{75} - D_{25}):	54.54	0.470

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.3%	COARSE SAND:	0.8%
SAND:	98.2%	MEDIUM SAND:	5.6%
MUD:	1.5%	FINE SAND:	91.0%
		V FINE SAND:	0.6%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.0%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.6%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	0.3%
FINE GRAVEL:	0.1%	FINE SILT:	0.4%
V FINE GRAVEL:	0.2%	V FINE SILT:	0.2%
V COARSE SAND:	0.3%	CLAY:	0.0%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	192.9	167.7	2.576	169.4	2.562	Fine Sand
SORTING (σ):	208.0	1.613	0.690	1.284	0.360	Well Sorted
SKEWNESS (Sk):	15.01	-2.314	2.314	0.326	-0.326	Very Coarse Skewed
KURTOSIS (K):	279.0	32.39	32.39	1.047	1.047	Mesokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_52**

ANALYST & DATE: Tessa Caley, 10/8/2012

SAMPLE TYPE: Unimodal, Very Well Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Fine Gravelly Fine Sand

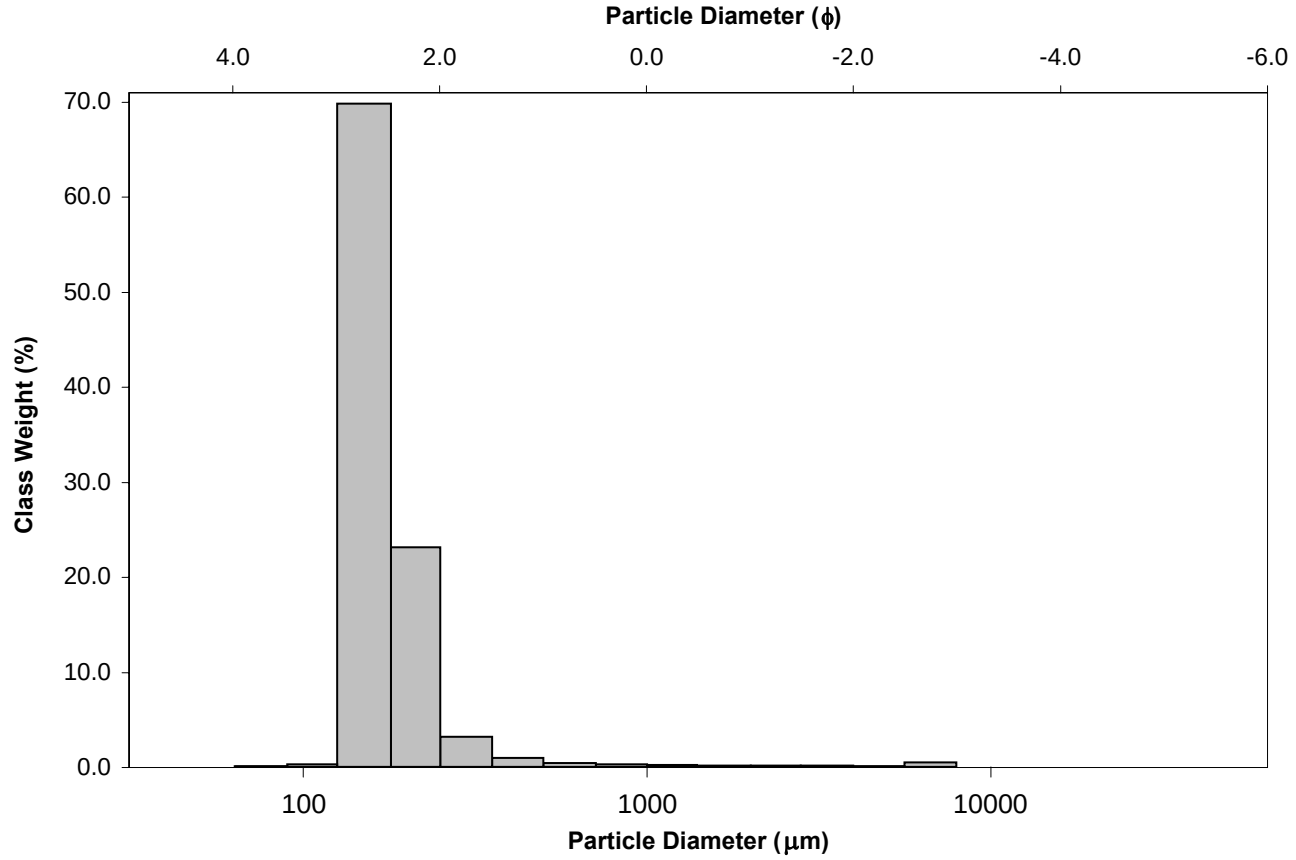
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	130.3	2.090
MEDIAN or D_{50}:	160.0	2.644
D_{90}:	234.9	2.941
(D_{90} / D_{10}):	1.804	1.407
(D_{90} - D_{10}):	104.7	0.851
(D_{75} / D_{25}):	1.322	1.166
(D_{75} - D_{25}):	45.36	0.403

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.9%	COARSE SAND:	0.7%
SAND:	97.5%	MEDIUM SAND:	4.0%
MUD:	1.6%	FINE SAND:	92.0%
		V FINE SAND:	0.4%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.3%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.3%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	0.3%
FINE GRAVEL:	0.6%	FINE SILT:	0.3%
V FINE GRAVEL:	0.3%	V FINE SILT:	0.3%
V COARSE SAND:	0.4%	CLAY:	0.3%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	225.9	166.8	2.584	166.3	2.588	Fine Sand
SORTING (σ):	523.9	1.765	0.819	1.267	0.341	Very Well Sorted
SKEWNESS (Sk):	11.19	-0.101	0.101	0.332	-0.332	Very Coarse Skewed
KURTOSIS (K):	134.5	26.51	26.51	1.160	1.160	Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TB_GRAB_53**

ANALYST & DATE: Tessa Caley, 10/8/2012

SAMPLE TYPE: Polymodal, Very Poorly Sorted

TEXTURAL GROUP: Muddy Sandy Gravel

SEDIMENT NAME: Fine Silty Sandy Coarse Gravel

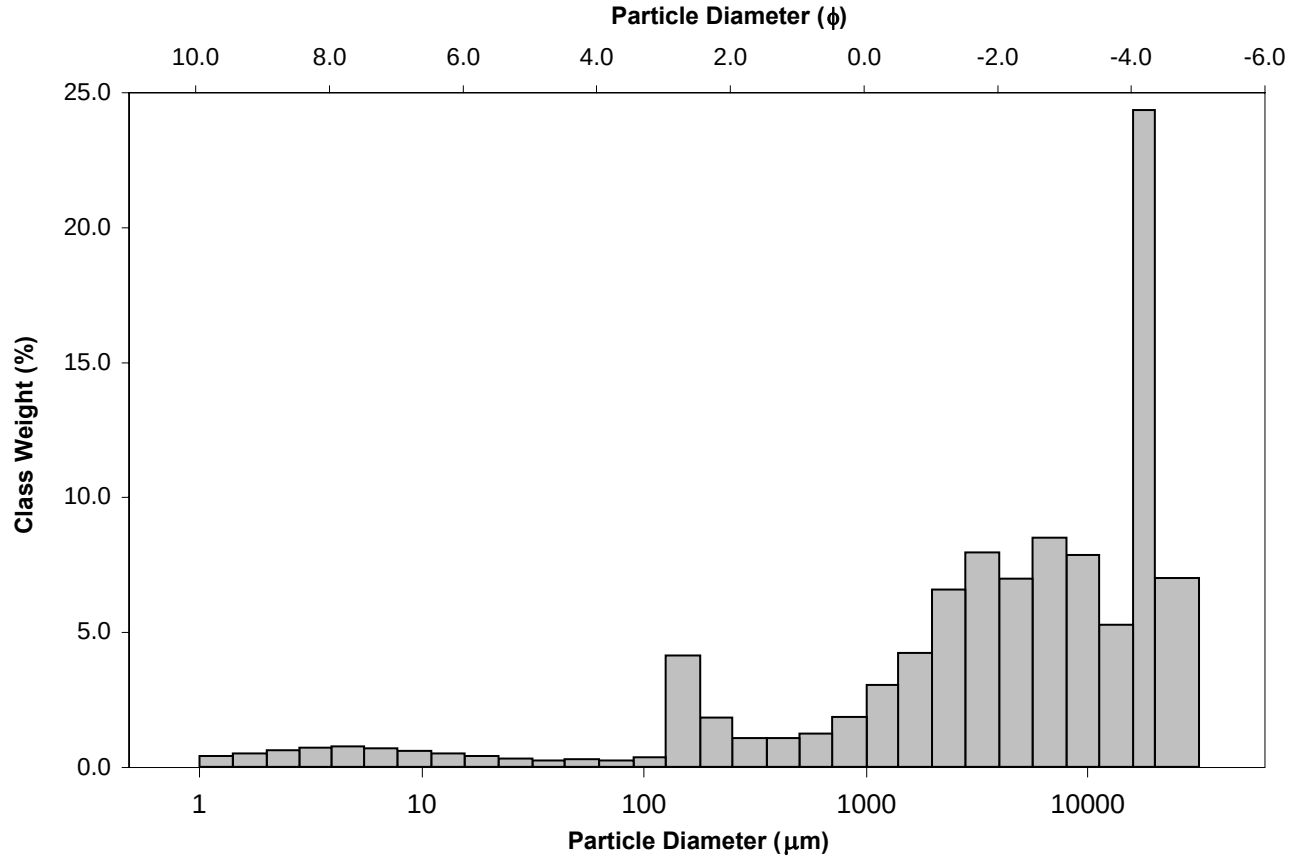
	μm	ϕ
MODE 1:	18000.0	-4.161
MODE 2:	6800.0	-2.743
MODE 3:	3400.0	-1.743
D_{10}:	148.8	-4.318
MEDIAN or D_{50}:	5521.8	-2.465
D_{90}:	19943.2	2.749
(D_{90} / D_{10}):	134.0	-0.637
(D_{90} - D_{10}):	19794.4	7.066
(D_{75} / D_{25}):	9.946	0.177
(D_{75} - D_{25}):	14678.1	3.314

GRAIN SIZE DISTRIBUTION

GRAVEL:	72.4%	COARSE SAND:	3.3%
SAND:	20.4%	MEDIUM SAND:	2.3%
MUD:	7.2%	FINE SAND:	6.5%
		V FINE SAND:	0.6%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.5%
COARSE GRAVEL:	26.5%	COARSE SILT:	0.8%
MEDIUM GRAVEL:	13.9%	MEDIUM SILT:	1.2%
FINE GRAVEL:	16.5%	FINE SILT:	1.6%
V FINE GRAVEL:	15.5%	V FINE SILT:	1.4%
V COARSE SAND:	7.8%	CLAY:	1.7%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	8692.8	2911.1	-1.542	3510.2	-1.812	Very Fine Gravel
SORTING (σ):	8317.7	9.625	3.267	8.483	3.085	Very Poorly Sorted
SKEWNESS (Sk):	0.770	-1.703	1.703	-0.489	0.489	Very Fine Skewed
KURTOSIS (K):	2.297	5.632	5.632	1.409	1.409	Leptokurtic

GRAIN SIZE DISTRIBUTION



APPENDIX C - PARTICLE SIZE ANALYSIS
Teesside Cable Corridor

Table C.2 Teesside Cable Corridor Sediment Characteristics

Station	Mean Diameter (µm)	Mean Diameter (phi)	Fines %	Sand %	Gravel %	Wentworth Classification (based on mean grain size)	Sorting[1]	Modified Folk Classification	Total Organic Carbon[2] (%)
Inshore Stations (Northern Route)									
TCC_01	152.5	2.7	2.6	97.3	0.2	Fine Sand	Very Well	(g)S	0.44
TCC_03	153	2.7	2.3	97.6	0.1	Fine Sand	Very Well	(g)S	0.47
TCC_05	155.7	2.7	6.8	93.2	0	Fine Sand	Moderately Well	(g)S	0.45
TCC_06	105.6	3.2	21.2	78.8	0.1	Very Fine Sand	Poor	(g)mS	2.31
TCC_09	34.4	4.9	62	37.9	0.1	Very Coarse Silt	Very Poor	(g)sM	3.45
TCC_10	60.2	4.1	35.3	64.4	0.4	Very Coarse Silt	Poor	(g)mS	4.60
TCC_12	410.7	1.3	13.1	63.8	23.1	Medium Sand	Very Poor	gmS	2.13
TCC_14	481.8	1.1	10.6	64.9	24.5	Medium Sand	Very Poor	gmS	
Offshore Stations (Northern Route)									
TCC_16	632.9	0.7	6	68.2	25.8	Coarse Sand	Very Poor	gS	
TCC_18	359.3	1.5	2	83.3	14.7	Medium Sand	Very Poor	gS	1.39
TCC_22	184.5	2.4	1.9	97.9	0.2	Fine Sand	Moderately Well	(g)S	
TCC_24	180.1	2.5	2.5	97.4	0.1	Fine Sand	Moderately Well	(g)S	
TCC_25	175.3	2.5	2	97.8	0.1	Fine Sand	Well Sorted	(g)S	
TCC_26	164.3	2.6	2.7	97.2	0.1	Fine Sand	Well Sorted	(g)S	
TCC_27	150.2	2.7	3.4	96.6	0.1	Fine Sand	Very Well	(g)S	0.48
TCC_29	160.1	2.6	4.5	95.2	0.3	Fine Sand	Well Sorted	(g)S	
TCC_31	153.4	2.7	3.7	96.1	0.2	Fine Sand	Very Well	(g)S	
TCC_32	201	2.3	2.7	96.9	0.5	Fine Sand	Moderately Well	(g)S	
TCC_35	190.3	2.4	3.9	95.1	0.9	Fine Sand	Moderately Well	(g)S	
TCC_37	333.1	1.6	2.4	83	14.6	Medium Sand	Poor	gS	
TCC_39	182.4	2.5	3.4	95.6	0.9	Fine Sand	Moderately Well	(g)S	
TCC_40	151.4	2.7	6	93.9	0.1	Fine Sand	Moderately Well	(g)S	0.84
TCC_42	181.6	2.5	6.2	93	0.9	Fine Sand	Moderate	(g)S	
TCC_43	151.4	2.7	6.8	93.1	0.1	Fine Sand	Moderate	(g)S	
TCC_45	234.8	2.1	2.9	83.9	13.2	Fine Sand	Poor	gS	
TCC_46	196.5	2.3	9.7	86.3	4	Fine Sand	Poor	(g)mS	
TCC_47	176.5	2.5	6	93.8	0.2	Fine Sand	Moderate	(g)S	
TCC_48	213.2	2.2	5.9	93.5	0.7	Fine Sand	Moderate	(g)S	1.24
TCC_49	149.5	2.7	5.2	94.6	0.2	Fine Sand	Well Sorted	(g)S	
TCC_52	179.6	2.5	2.9	96.2	0.9	Fine Sand	Moderately Well	(g)S	
TCC_53	933.7	0.1	2.7	54.2	43.1	Coarse Sand	Very Poor	sG	
TCC_54	151.3	2.7	5.1	94.9	0	Fine Sand	Well Sorted	(g)S	0.58
TCC_55	153	2.7	2.9	97	0.1	Fine Sand	Very Well	(g)S	
TCC_56	279.5	1.8	3	83.1	14	Medium Sand	Poor	gS	
TCC_57	203.6	2.3	1.3	98.6	0.1	Fine Sand	Very Well	(g)S	
Inshore Stations (Southern Route)									
TCC_61	150.3	2.7	3.6	96.4	0.1	Fine Sand	Very Well	(g)S	1.36
TCC_62	150.3	2.7	3.7	96.2	0.1	Fine Sand	Very Well	(g)S	0.51
TCC_64	153.1	2.7	2.8	96.9	0.3	Fine Sand	Very Well	(g)S	0.73
TCC_71	255.8	2	20.7	63.2	16.1	Medium Sand	Very Poor	gmS	
TCC_75	839.9	0.3	9.8	58.4	31.8	Coarse Sand	Very Poor	msG	2.61
TCC_76	5889.8	-2.6	5	33.5	61.5	Fine Gravel	Very Poor	msG	
Offshore Stations (Southern Route)									
TCC_78	325.9	1.6	1.2	91.5	7.2	Medium Sand	Poor	gS	
TCC_79	278.6	1.8	1.8	96.9	1.3	Medium Sand	Moderate	(g)S	
TCC_80	534.5	0.9	2.1	78.9	19	Coarse Sand	Poor	gS	
TCC_82	266.1	1.9	1.4	97.6	1	Medium Sand	Moderate	(g)S	
TCC_84	171.6	2.5	1.5	98.4	0	Fine Sand	Well Sorted	(g)S	
TCC_85	187.5	2.4	1.3	98.7	0.1	Fine Sand	Well Sorted	(g)S	
TCC_86	154.3	2.7	1.6	98.3	0.1	Fine Sand	Very Well	(g)S	0.51
TCC_87	204.1	2.3	2.5	97.2	0.2	Fine Sand	Moderately Well	(g)S	
TCC_90	197	2.3	2.5	97.4	0.1	Fine Sand	Moderately Well	(g)S	
TCC_92	202	2.3	2.5	97.3	0.2	Fine Sand	Moderately Well	(g)S	
TCC_93	192.6	2.4	1.8	98	0.2	Fine Sand	Moderately Well	(g)S	
TCC_94	179.2	2.5	2.2	97.7	0.1	Fine Sand	Well Sorted	(g)S	
TCC_95	186	2.4	1.6	98.3	0.1	Fine Sand	Moderately Well	(g)S	0.41
TCC_97	206.5	2.3	3	95.9	1.1	Fine Sand	Moderately Well	(g)S	
TCC_99	188.2	2.4	3	96.4	0.5	Fine Sand	Moderately Well	(g)S	
TCC_100	153.8	2.7	2.1	97.7	0.2	Fine Sand	Very Well	(g)S	
TCC_101	150.4	2.7	3.2	96.8	0.1	Fine Sand	Very Well	(g)S	
TCC_102	149.8	2.7	3.4	96.4	0.1	Fine Sand	Very Well	(g)S	0.44
TCC_103	153	2.7	4.8	95.1	0.1	Fine Sand	Well Sorted	(g)S	
TCC_106	155.2	2.7	7.4	92.6	0	Fine Sand	Moderate	(g)S	
TCC_107	152	2.7	4.9	95	0.1	Fine Sand	Well Sorted	(g)S	
TCC_109	177.6	2.5	2.6	97.4	0	Fine Sand	Well Sorted	(g)S	1.12
TCC_111	218	2.2	2.3	89.1	8.6	Fine Sand	Poor	gS	
TCC_112	201.3	2.3	2	97.9	0	Fine Sand	Well Sorted	(g)S	
TCC_113	173.7	2.5	3	96	1	Fine Sand	Well Sorted	(g)S	
TCC_114	170.9	2.5	2.1	97.6	0.4	Fine Sand	Very Well	(g)S	<0.4
TCC_115	2497.9	-1.3	0.8	34.4	64.8	Very Fine Gravel	Very Poor	sG	
TCC_116	164.3	2.6	2.4	97.3	0.4	Fine Sand	Very Well	(g)S	
TCC_118	197.3	2.3	1.5	85.8	12.7	Fine Sand	Poor	gS	
TCC_120	160.5	2.6	1.4	97.3	1.3	Fine Sand	Very Well	(g)S	
Min	**34.4**	**-2.6**	**0.8**	**33.5**	**0**				**<0.4**
Max	**5889.8**	**4.9**	**62**	**98.7**	**64.8**	**Very Fine Sand to Fine Gravel**	**Very Poor to Very Well**	**(g)mS to msG**	**4.60**
Mean	**334.7**	**2.2**	**5.4**	**88.8**	**5.8**				**1.30**
SD	**736.1**	**1**	**8.6**	**15.6**	**13.1**				**1.16**

Sediments were treated to remove carbonates prior to analyses

1 Sorting according to Folk and Ward (1957)

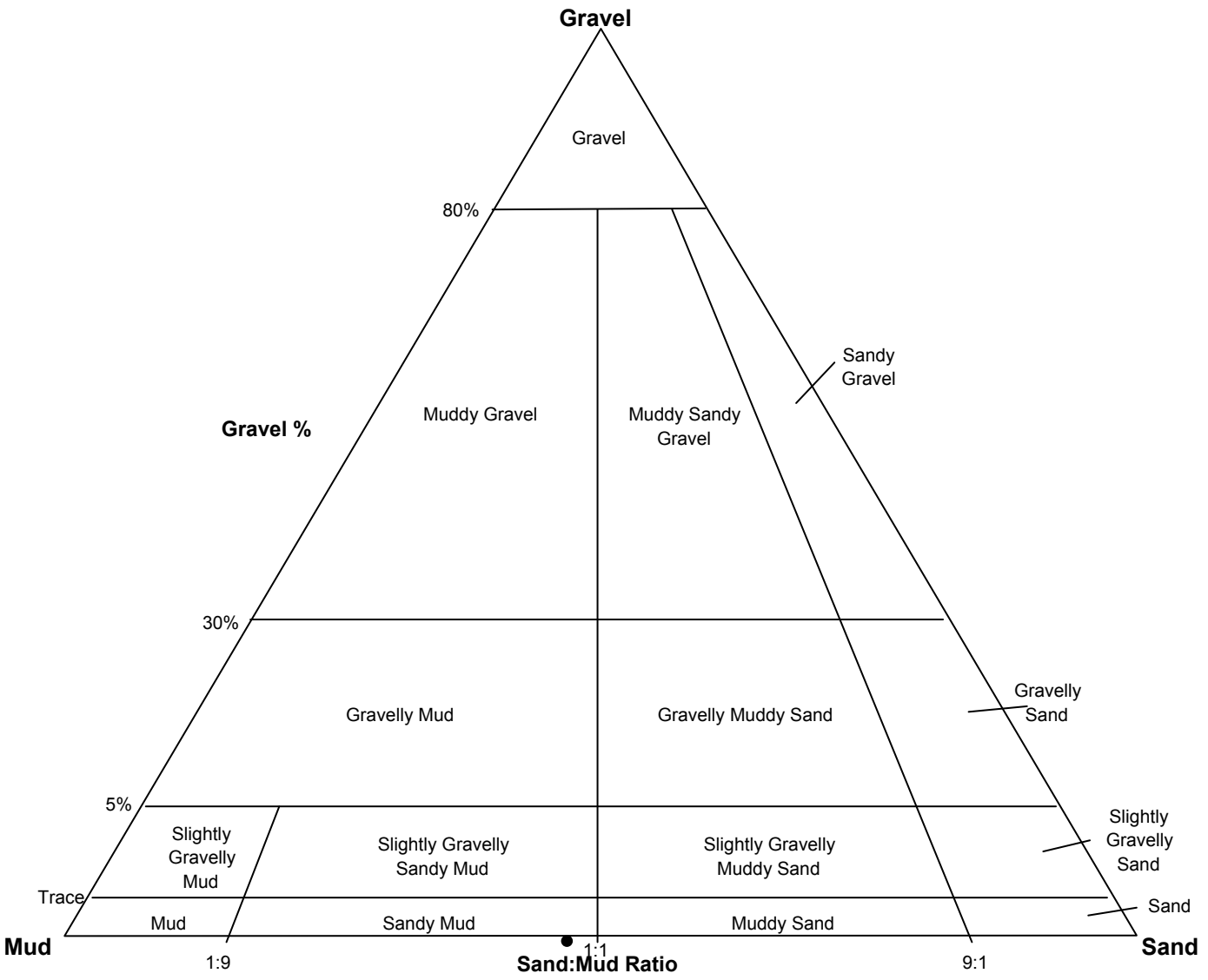
2 Concentrations only available for 21 stations selected for physico-chemistry sampling

g(S): slightly gravelly sand; (g)mS: slightly gravelly muddy sand; (g)sM: slightly gravelly sandy mud; gmS: gravelly muddy sand; gS: gravelly sand; (g)S: slightly gravelly sand; sG: sandy gravel; msG: muddy sandy gravel

APPENDIX C - PARTICLE SIZE ANALYSIS

Teesside Cable Corridor

GRADISTAT MODIFIED FOLK TRIANGLE



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_01** ANALYST & DATE: Mj.Grey, 11/23/2012

SAMPLE TYPE: Unimodal, Very Well Sorted TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

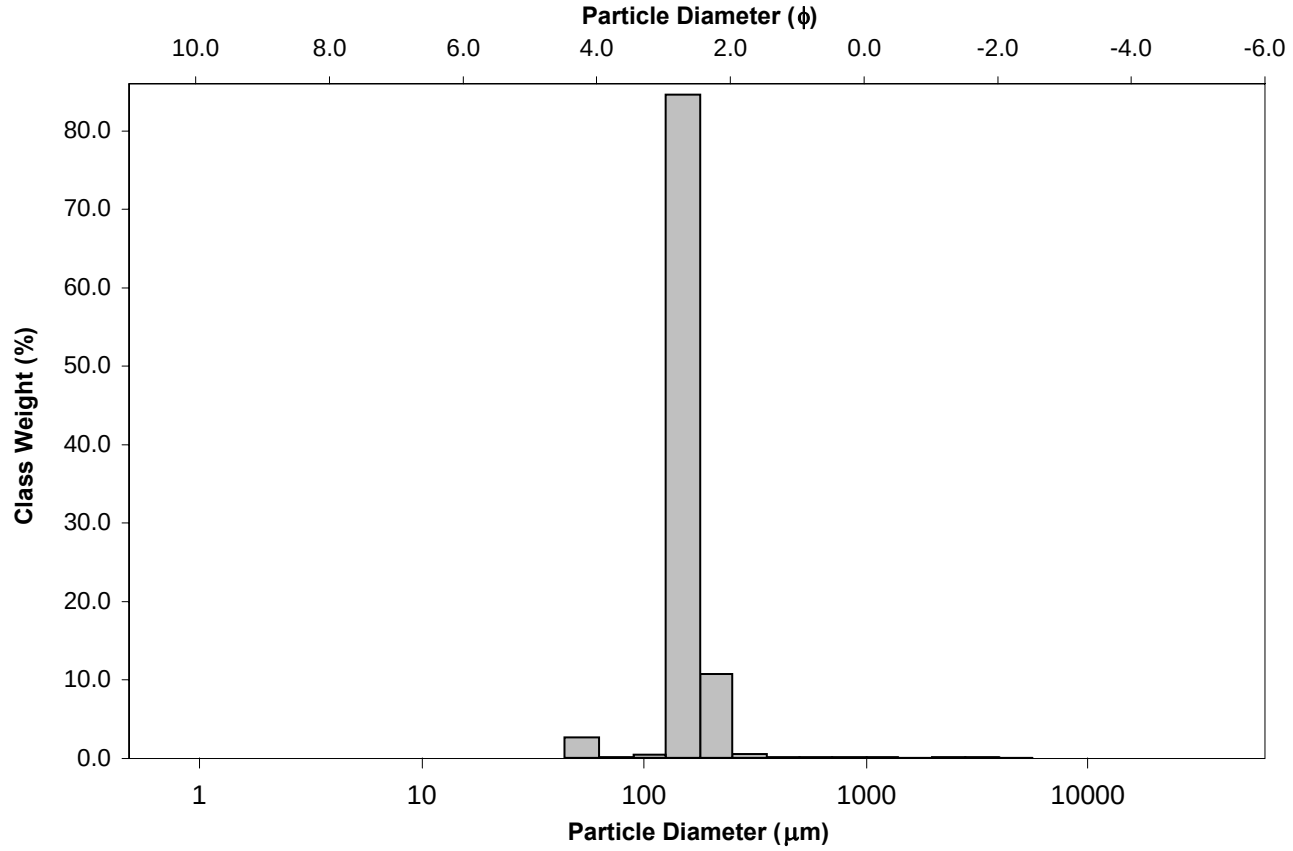
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	128.7	2.430
MEDIAN or D_{50}:	152.5	2.713
D_{90}:	185.6	2.958
(D_{90} / D_{10}):	1.442	1.218
(D_{90} - D_{10}):	56.93	0.528
(D_{75} / D_{25}):	1.236	1.120
(D_{75} - D_{25}):	32.41	0.306

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.2%	COARSE SAND:	0.2%
SAND:	97.3%	MEDIUM SAND:	0.6%
MUD:	2.6%	FINE SAND:	95.8%
		V FINE SAND:	0.6%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	2.6%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.0%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	0.0%
FINE GRAVEL:	0.0%	FINE SILT:	0.0%
V FINE GRAVEL:	0.1%	V FINE SILT:	0.0%
V COARSE SAND:	0.1%	CLAY:	0.0%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	164.6	153.0	2.709	152.5	2.713	Fine Sand
SORTING (σ):	142.1	1.305	0.384	1.169	0.225	Very Well Sorted
SKEWNESS (Sk):	21.26	2.121	-2.121	0.156	-0.156	Coarse Skewed
KURTOSIS (K):	534.3	43.77	43.77	1.072	1.072	Mesokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_03** ANALYST & DATE: Mj.Grey, 11/23/2012

SAMPLE TYPE: Unimodal, Very Well Sorted TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

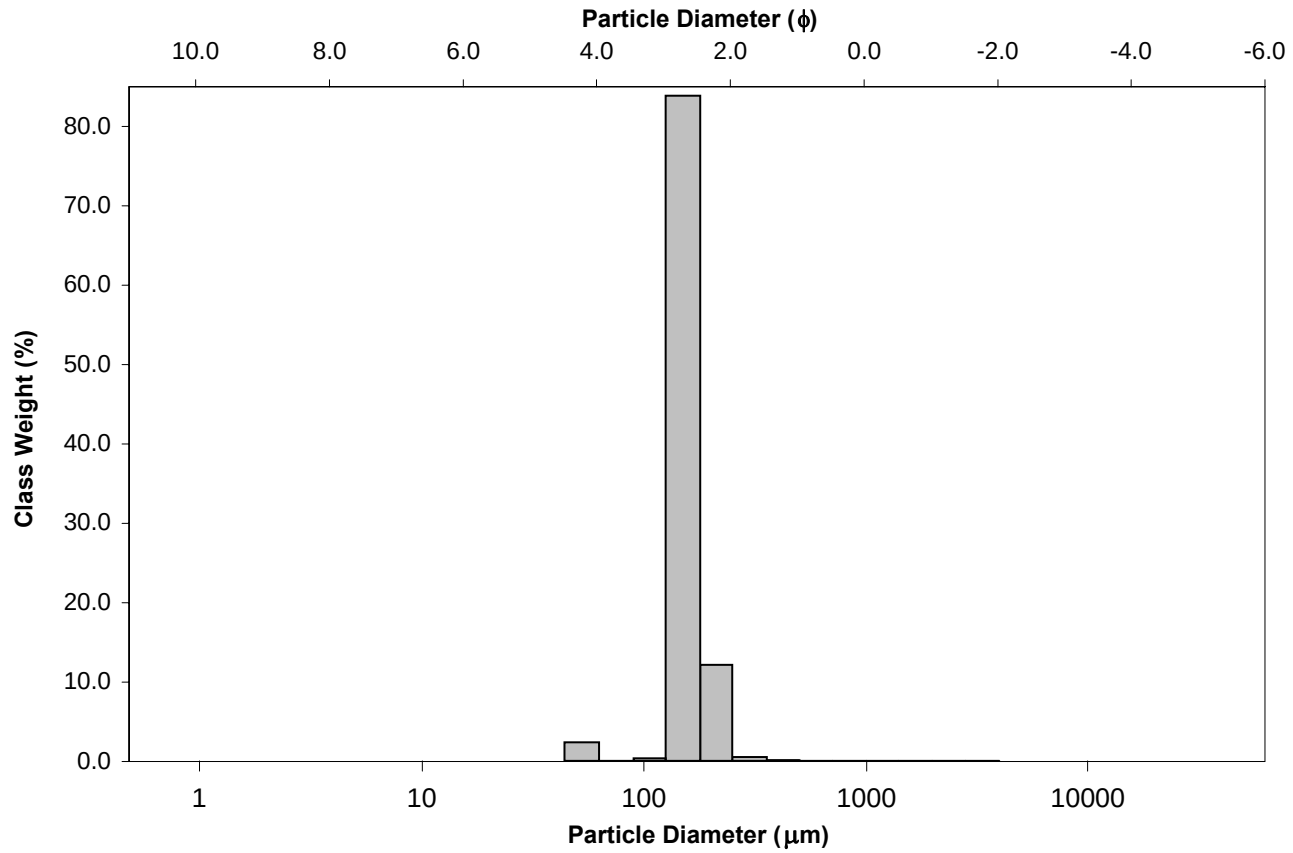
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	128.9	2.390
MEDIAN or D_{50}:	153.0	2.709
D_{90}:	190.7	2.955
(D_{90} / D_{10}):	1.479	1.236
(D_{90} - D_{10}):	61.81	0.565
(D_{75} / D_{25}):	1.238	1.121
(D_{75} - D_{25}):	32.77	0.308

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.1%	COARSE SAND:	0.1%
SAND:	97.6%	MEDIUM SAND:	0.6%
MUD:	2.3%	FINE SAND:	96.3%
		V FINE SAND:	0.4%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	2.3%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.0%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	0.0%
FINE GRAVEL:	0.0%	FINE SILT:	0.0%
V FINE GRAVEL:	0.1%	V FINE SILT:	0.0%
V COARSE SAND:	0.1%	CLAY:	0.0%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	162.0	153.4	2.705	153.0	2.709	Fine Sand
SORTING (σ):	97.39	1.271	0.346	1.171	0.228	Very Well Sorted
SKEWNESS (Sk):	23.89	0.869	-0.869	0.157	-0.157	Coarse Skewed
KURTOSIS (K):	691.3	38.14	38.14	1.076	1.076	Mesokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_05** ANALYST & DATE: Mj.Grey, 11/23/2012

SAMPLE TYPE: Unimodal, Moderately Well Sorted TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

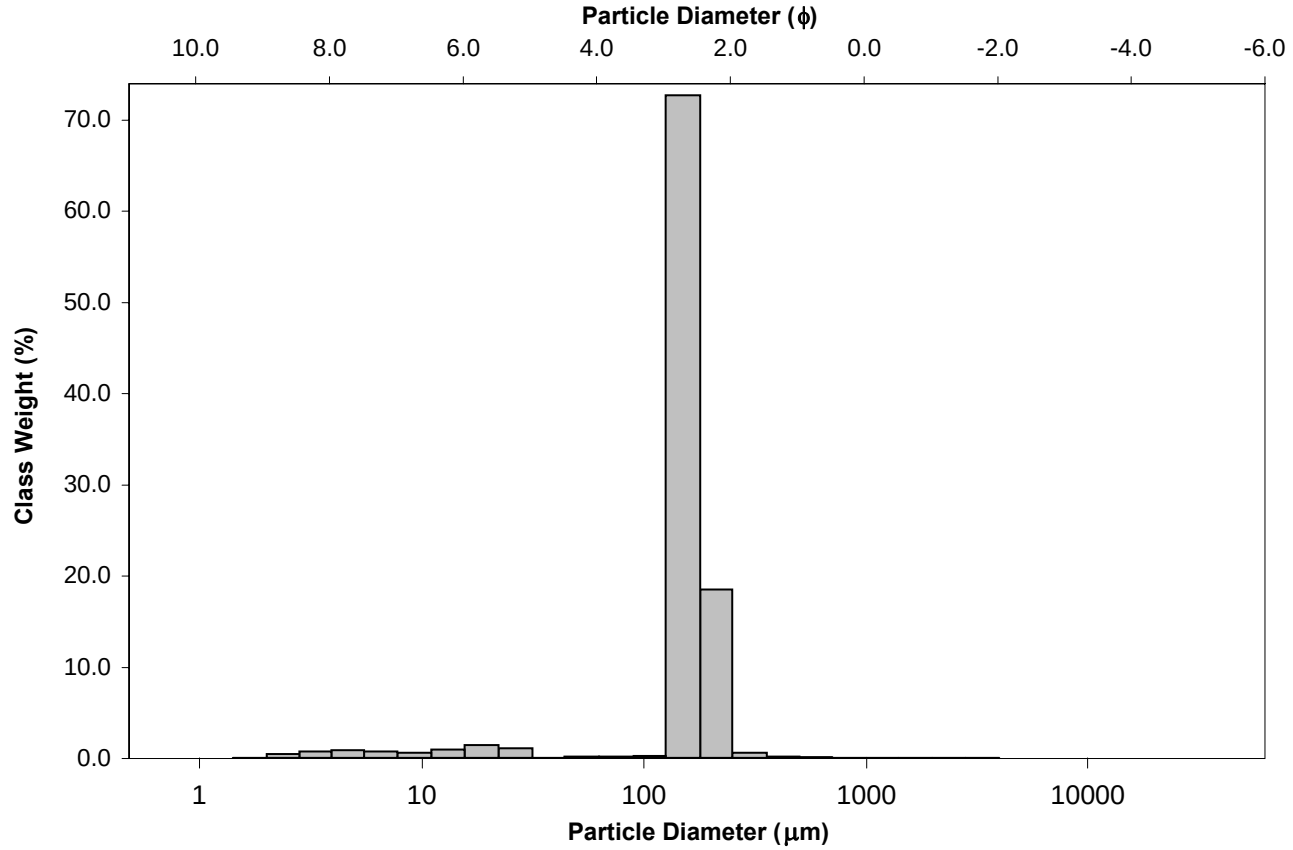
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	126.7	2.249
MEDIAN or D_{50}:	154.1	2.698
D_{90}:	210.4	2.980
(D_{90} / D_{10}):	1.660	1.325
(D_{90} - D_{10}):	83.65	0.731
(D_{75} / D_{25}):	1.277	1.140
(D_{75} - D_{25}):	37.71	0.352

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.0%	COARSE SAND:	0.1%
SAND:	93.2%	MEDIUM SAND:	0.8%
MUD:	6.8%	FINE SAND:	91.8%
		V FINE SAND:	0.4%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.2%
COARSE GRAVEL:	0.0%	COARSE SILT:	2.4%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	1.5%
FINE GRAVEL:	0.0%	FINE SILT:	1.5%
V FINE GRAVEL:	0.0%	V FINE SILT:	1.1%
V COARSE SAND:	0.1%	CLAY:	0.0%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	157.5	133.7	2.903	155.7	2.684	Fine Sand
SORTING (σ):	82.96	2.114	1.080	1.597	0.675	Moderately Well Sorted
SKEWNESS (Sk):	19.34	-3.514	3.514	-0.294	0.294	Fine Skewed
KURTOSIS (K):	652.7	16.00	16.00	4.178	4.178	Extremely Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_06** ANALYST & DATE: Mj.Grey, 11/23/2012

SAMPLE TYPE: Unimodal, Poorly Sorted TEXTURAL GROUP: Slightly Gravelly Muddy Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Very Coarse Silty Fine Sand

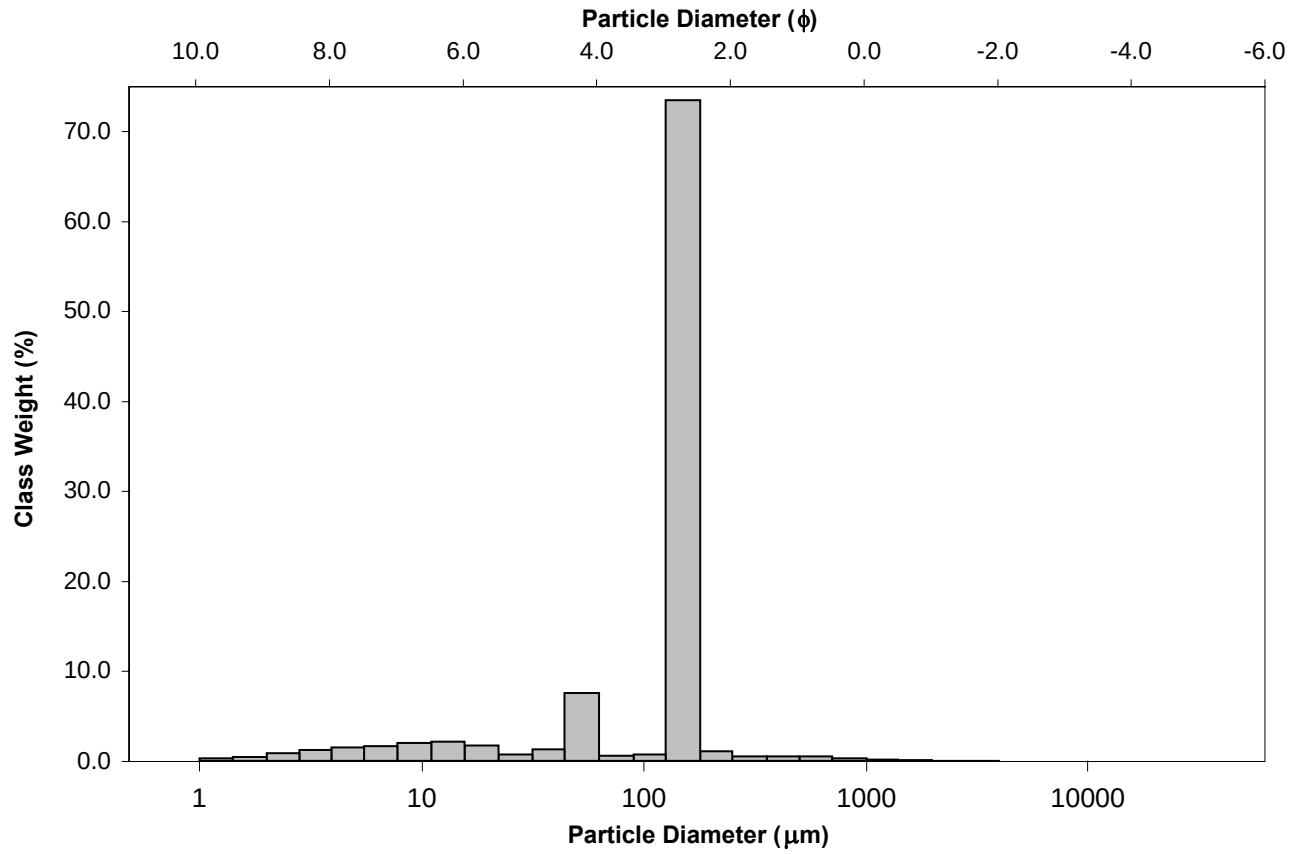
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	14.83	2.522
MEDIAN or D_{50}:	143.0	2.806
D_{90}:	174.1	6.075
(D_{90} / D_{10}):	11.73	2.409
(D_{90} - D_{10}):	159.2	3.553
(D_{75} / D_{25}):	1.278	1.135
(D_{75} - D_{25}):	35.20	0.354

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.1%	COARSE SAND:	0.9%
SAND:	78.8%	MEDIUM SAND:	1.1%
MUD:	21.2%	FINE SAND:	75.2%
		V FINE SAND:	1.4%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	8.5%
COARSE GRAVEL:	0.0%	COARSE SILT:	2.3%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	4.0%
FINE GRAVEL:	0.0%	FINE SILT:	3.1%
V FINE GRAVEL:	0.1%	V FINE SILT:	2.0%
V COARSE SAND:	0.3%	CLAY:	1.3%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	137.1	94.71	3.400	105.6	3.243	Very Fine Sand
SORTING (σ):	122.1	3.055	1.611	2.288	1.194	Poorly Sorted
SKEWNESS (Sk):	11.06	-2.070	2.070	-0.801	0.801	Very Fine Skewed
KURTOSIS (K):	217.6	7.120	7.120	5.694	5.694	Extremely Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_09** ANALYST & DATE: Mj.Grey, 11/23/2012

SAMPLE TYPE: Bimodal, Very Poorly Sorted TEXTURAL GROUP: Slightly Gravelly Sandy Mud

SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sandy Very Coarse Silt

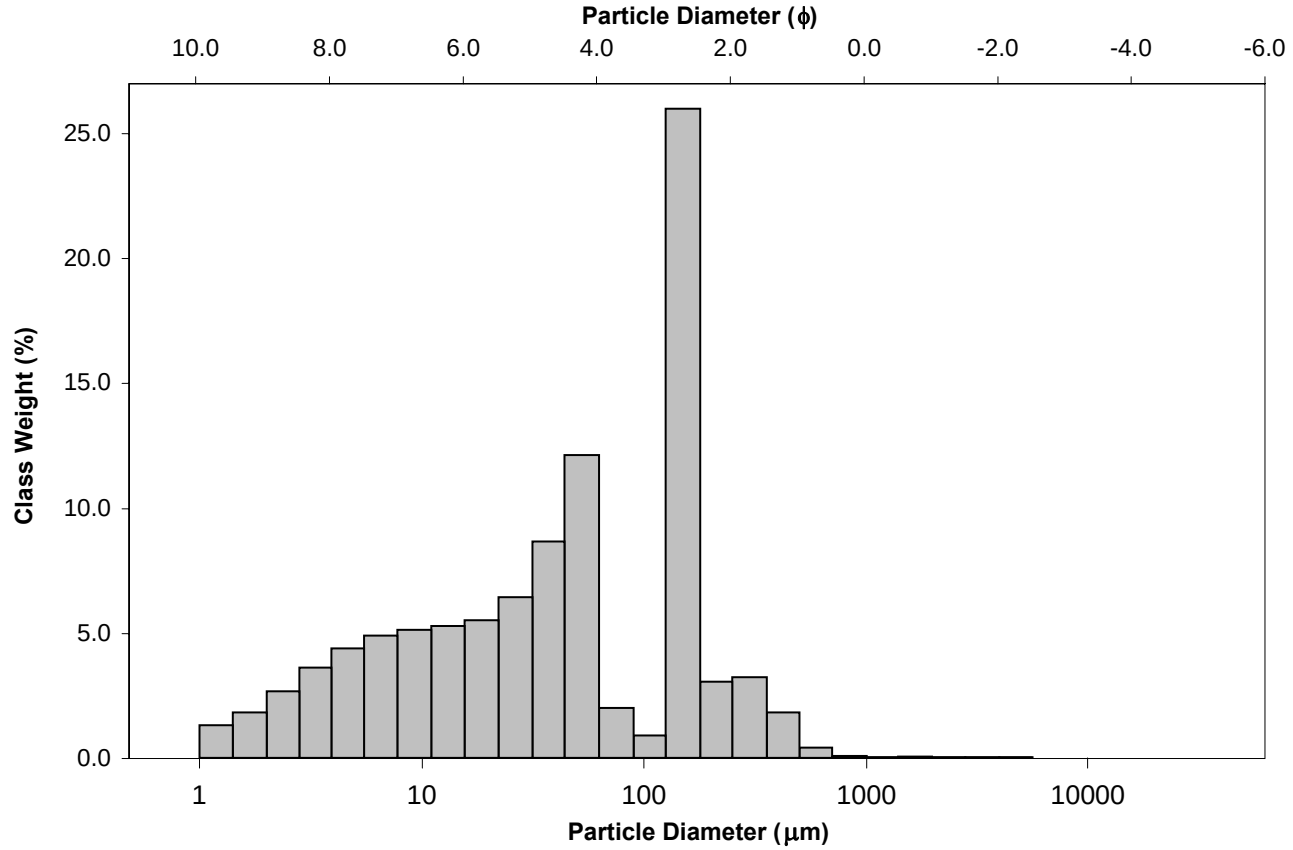
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:	53.50	4.247
MODE 3:		
D_{10}:	3.476	2.506
MEDIAN or D_{50}:	43.80	4.513
D_{90}:	176.1	8.168
(D_{90} / D_{10}):	50.66	3.260
(D_{90} - D_{10}):	172.6	5.663
(D_{75} / D_{25}):	13.11	2.324
(D_{75} - D_{25}):	132.3	3.713

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.1%	COARSE SAND:	0.5%
SAND:	37.9%	MEDIUM SAND:	4.9%
MUD:	62.0%	FINE SAND:	29.3%
		V FINE SAND:	3.1%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	20.2%
COARSE GRAVEL:	0.0%	COARSE SILT:	11.6%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	10.1%
FINE GRAVEL:	0.0%	FINE SILT:	9.0%
V FINE GRAVEL:	0.1%	V FINE SILT:	6.0%
V COARSE SAND:	0.1%	CLAY:	5.2%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	87.88	34.67	4.850	34.45	4.859	Very Coarse Silt
SORTING (σ):	152.1	4.792	2.261	4.876	2.286	Very Poorly Sorted
SKEWNESS (Sk):	14.60	-0.463	0.463	-0.243	0.243	Fine Skewed
KURTOSIS (K):	374.5	2.351	2.351	0.788	0.788	Platykurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_10** ANALYST & DATE: Mj.Grey, 11/23/2012

SAMPLE TYPE: Unimodal, Poorly Sorted TEXTURAL GROUP: Slightly Gravelly Muddy Sand

SEDIMENT NAME: Slightly Medium Gravelly Very Coarse Silty Fine Sand

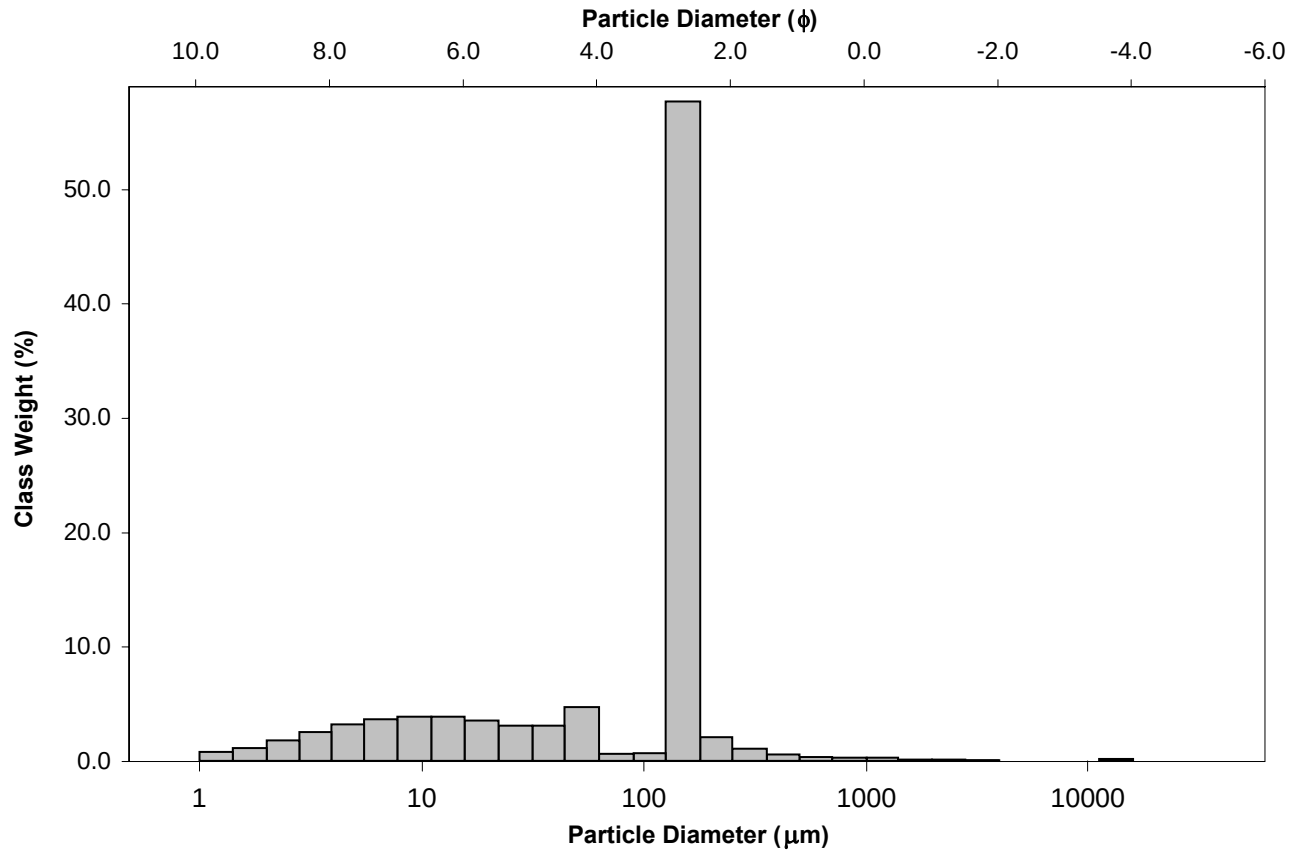
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	5.347	2.520
MEDIAN or D_{50}:	135.9	2.880
D_{90}:	174.4	7.547
(D_{90} / D_{10}):	32.61	2.995
(D_{90} - D_{10}):	169.0	5.027
(D_{75} / D_{25}):	6.969	2.055
(D_{75} - D_{25}):	136.0	2.801

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.4%	COARSE SAND:	0.6%
SAND:	64.4%	MEDIUM SAND:	1.6%
MUD:	35.3%	FINE SAND:	60.3%
		V FINE SAND:	1.4%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	7.6%
COARSE GRAVEL:	0.0%	COARSE SILT:	6.4%
MEDIUM GRAVEL:	0.2%	MEDIUM SILT:	7.5%
FINE GRAVEL:	0.0%	FINE SILT:	6.6%
V FINE GRAVEL:	0.2%	V FINE SILT:	4.1%
V COARSE SAND:	0.4%	CLAY:	3.0%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	148.8	61.49	4.024	60.18	4.054	Very Coarse Silt
SORTING (σ):	626.4	4.478	2.163	3.833	1.938	Poorly Sorted
SKEWNESS (Sk):	20.15	-0.977	0.977	-0.858	0.858	Very Fine Skewed
KURTOSIS (K):	429.8	3.414	3.414	0.873	0.873	Platykurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_12** ANALYST & DATE: Mj.Grey, 11/23/2012

SAMPLE TYPE: Unimodal, Very Poorly Sorted TEXTURAL GROUP: Gravelly Muddy Sand

SEDIMENT NAME: Very Fine Gravelly Medium Silty Fine Sand

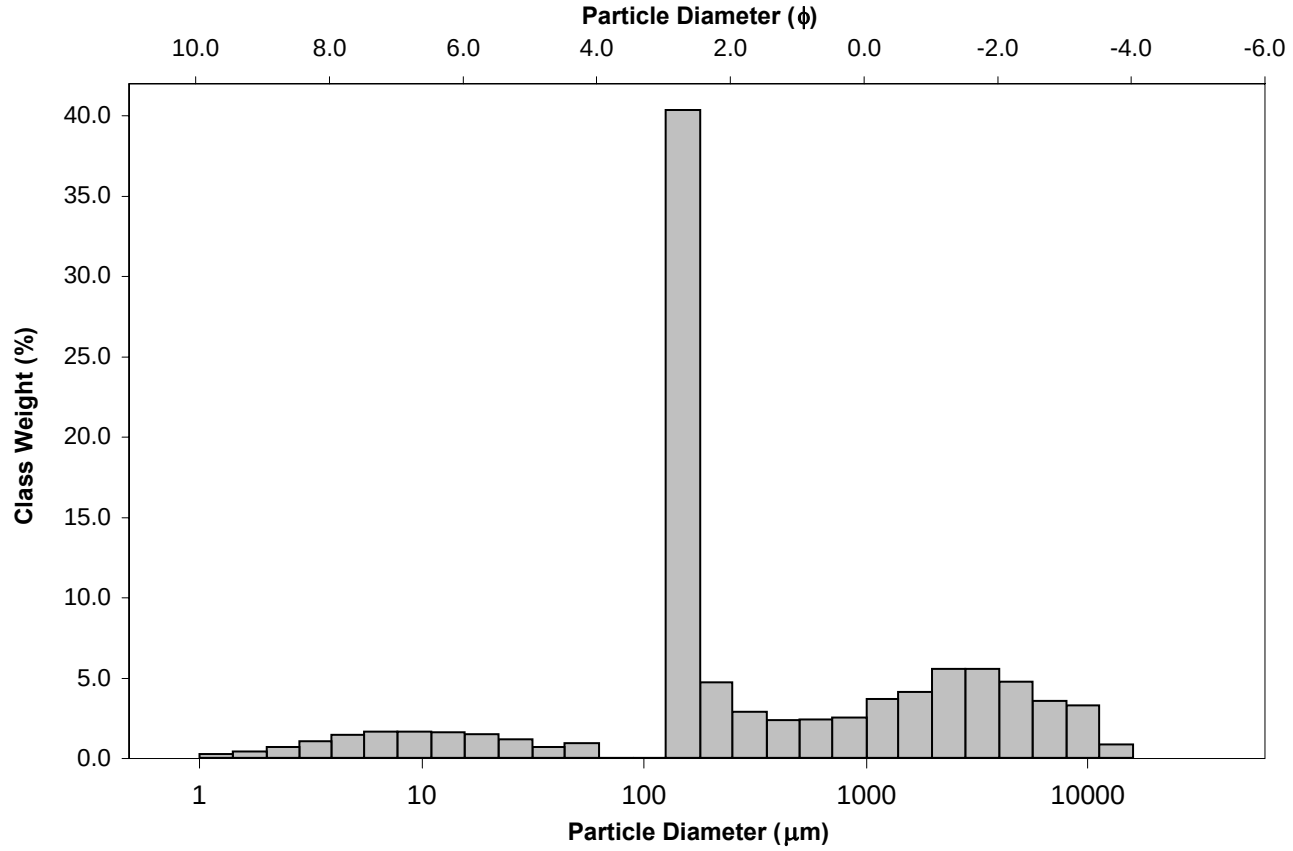
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	20.32	-2.228
MEDIAN or D_{50}:	172.5	2.536
D_{90}:	4686.4	5.621
(D_{90} / D_{10}):	230.6	-2.522
(D_{90} - D_{10}):	4666.1	7.850
(D_{75} / D_{25}):	12.24	-3.736
(D_{75} - D_{25}):	1558.5	3.614

GRAIN SIZE DISTRIBUTION

GRAVEL:	23.1%	COARSE SAND:	4.8%
SAND:	63.8%	MEDIUM SAND:	5.1%
MUD:	13.1%	FINE SAND:	46.1%
		V FINE SAND:	0.1%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	1.6%
COARSE GRAVEL:	0.0%	COARSE SILT:	2.6%
MEDIUM GRAVEL:	4.0%	MEDIUM SILT:	3.2%
FINE GRAVEL:	8.1%	FINE SILT:	3.0%
V FINE GRAVEL:	10.9%	V FINE SILT:	1.7%
V COARSE SAND:	7.7%	CLAY:	1.0%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	1442.8	309.2	1.693	410.7	1.284	Medium Sand
SORTING (σ):	2511.7	7.224	2.853	6.405	2.679	Very Poorly Sorted
SKEWNESS (Sk):	2.464	-0.272	0.272	0.443	-0.443	Very Coarse Skewed
KURTOSIS (K):	9.267	3.002	3.002	1.142	1.142	Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_14** ANALYST & DATE: Mj.Grey, 11/23/2012

SAMPLE TYPE: Unimodal, Very Poorly Sorted TEXTURAL GROUP: Gravelly Muddy Sand

SEDIMENT NAME: Very Fine Gravelly Medium Silty Fine Sand

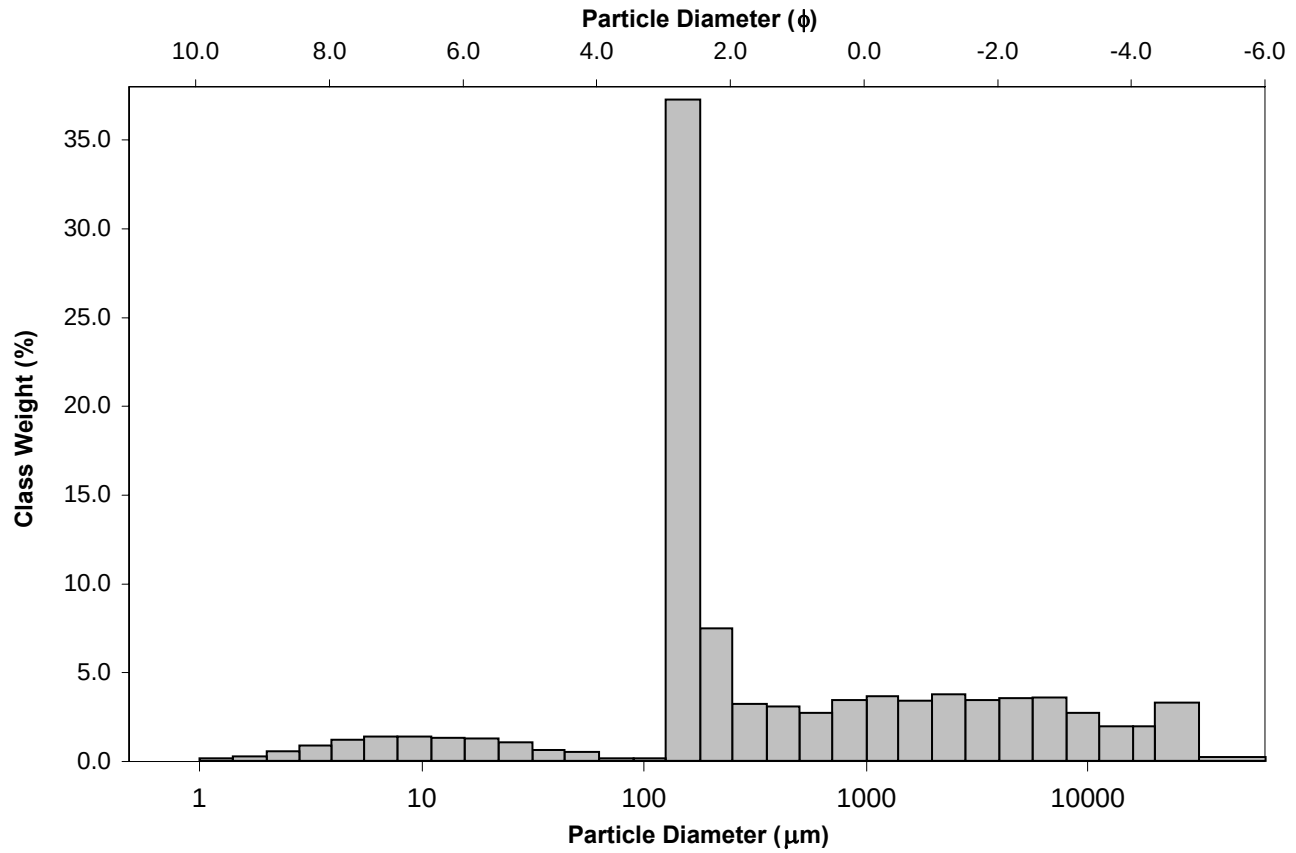
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	40.33	-3.086
MEDIAN or D_{50}:	184.7	2.437
D_{90}:	8488.5	4.632
(D_{90} / D_{10}):	210.5	-1.501
(D_{90} - D_{10}):	8448.2	7.717
(D_{75} / D_{25}):	13.27	-3.045
(D_{75} - D_{25}):	1752.5	3.731

GRAIN SIZE DISTRIBUTION

GRAVEL:	24.5%	COARSE SAND:	6.0%
SAND:	64.9%	MEDIUM SAND:	6.2%
MUD:	10.6%	FINE SAND:	45.4%
		V FINE SAND:	0.3%
V COARSE GRAVEL:	0.4%	V COARSE SILT:	1.1%
COARSE GRAVEL:	5.5%	COARSE SILT:	2.3%
MEDIUM GRAVEL:	4.5%	MEDIUM SILT:	2.7%
FINE GRAVEL:	7.0%	FINE SILT:	2.6%
V FINE GRAVEL:	7.0%	V FINE SILT:	1.3%
V COARSE SAND:	6.9%	CLAY:	0.7%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	2893.8	401.3	1.317	481.8	1.053	Medium Sand
SORTING (σ):	6562.1	8.185	3.033	7.802	2.964	Very Poorly Sorted
SKEWNESS (Sk):	3.413	0.059	-0.059	0.506	-0.506	Very Coarse Skewed
KURTOSIS (K):	16.25	2.990	2.990	1.217	1.217	Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_16**

ANALYST & DATE: MjGrey, 12/4/2012

SAMPLE TYPE: Polymodal, Very Poorly Sorted

TEXTURAL GROUP: Gravelly Sand

SEDIMENT NAME: Very Fine Gravelly Fine Sand

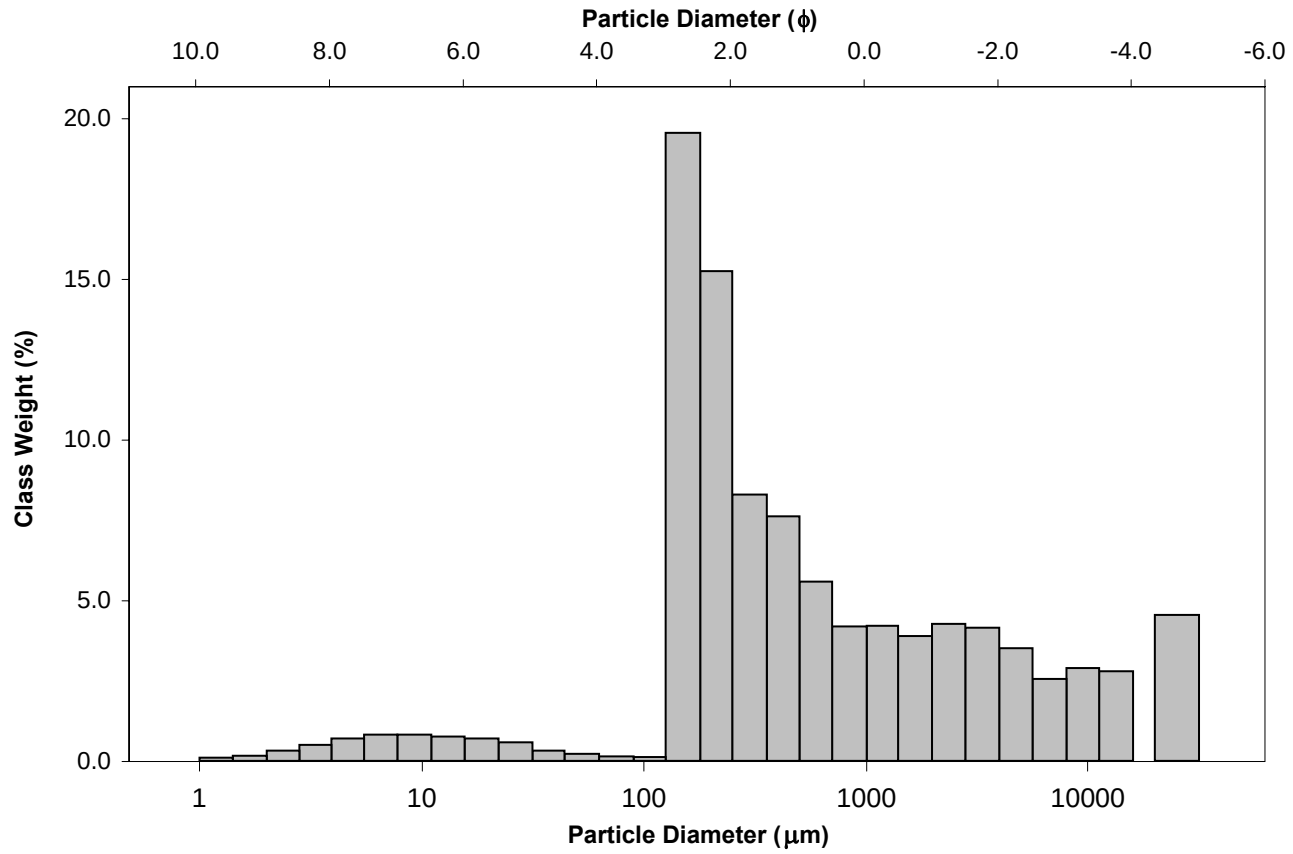
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:	25750.0	-4.650
MODE 3:	2400.0	-1.243
D_{10}:	133.5	-3.265
MEDIAN or D_{50}:	368.3	1.441
D_{90}:	9611.6	2.905
(D_{90} / D_{10}):	71.98	-0.890
(D_{90} - D_{10}):	9478.1	6.170
(D_{75} / D_{25}):	12.18	-2.309
(D_{75} - D_{25}):	1953.4	3.606

GRAIN SIZE DISTRIBUTION

GRAVEL:	25.8%	COARSE SAND:	9.6%
SAND:	68.2%	MEDIUM SAND:	15.7%
MUD:	6.0%	FINE SAND:	34.6%
		V FINE SAND:	0.3%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.5%
COARSE GRAVEL:	5.9%	COARSE SILT:	1.3%
MEDIUM GRAVEL:	5.6%	MEDIUM SILT:	1.6%
FINE GRAVEL:	5.9%	FINE SILT:	1.5%
V FINE GRAVEL:	8.3%	V FINE SILT:	0.8%
V COARSE SAND:	8.0%	CLAY:	0.4%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	3051.3	571.7	0.807	632.9	0.660	Coarse Sand
SORTING (σ):	6362.3	6.666	2.737	6.661	2.736	Very Poorly Sorted
SKEWNESS (Sk):	2.781	0.011	-0.011	0.330	-0.330	Very Coarse Skewed
KURTOSIS (K):	9.805	3.387	3.387	1.122	1.122	Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_18**

ANALYST & DATE: MjGrey, 12/4/2012

SAMPLE TYPE: Unimodal, Very Poorly Sorted

TEXTURAL GROUP: Gravelly Sand

SEDIMENT NAME: Coarse Gravelly Fine Sand

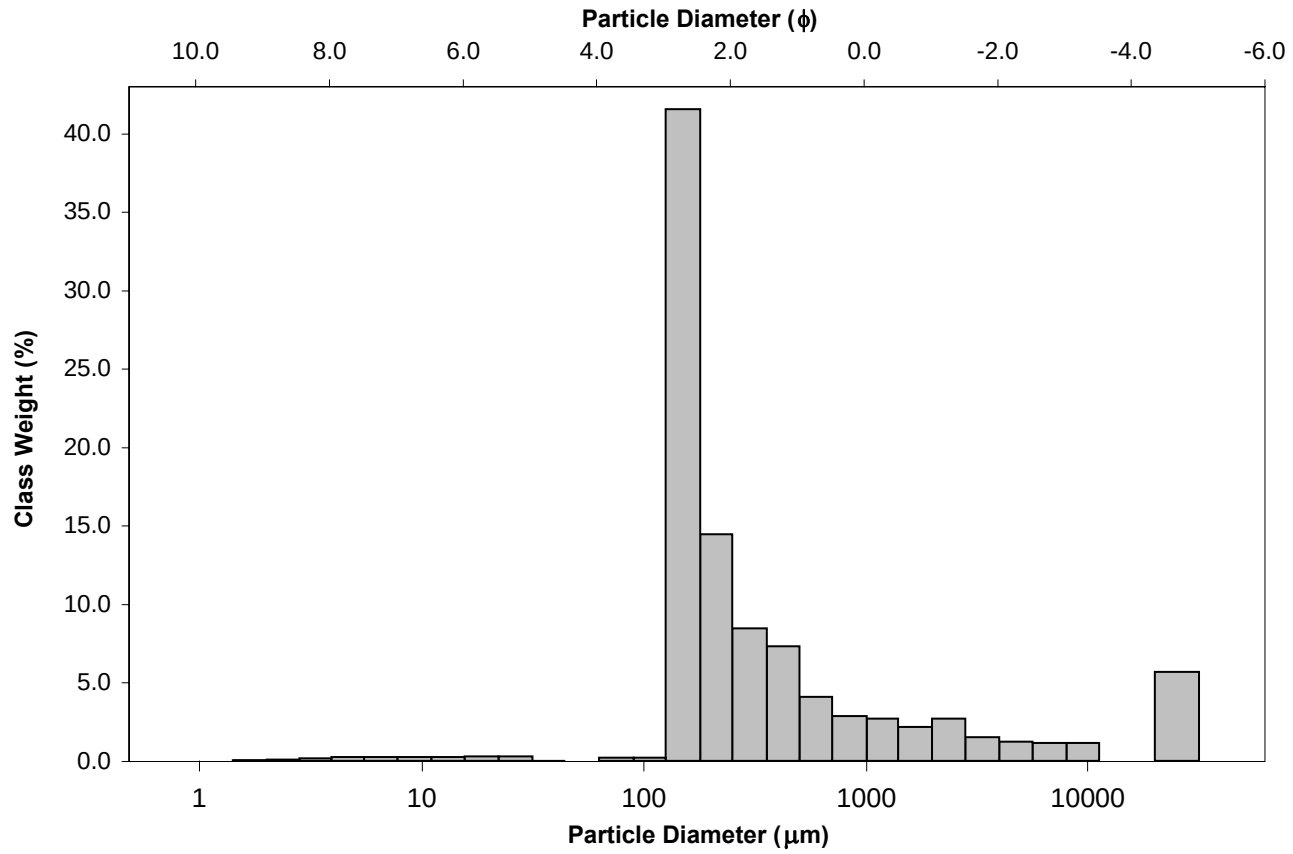
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	133.4	-2.260
MEDIAN or D_{50}:	203.6	2.297
D_{90}:	4789.4	2.906
(D_{90} / D_{10}):	35.91	-1.286
(D_{90} - D_{10}):	4656.0	5.166
(D_{75} / D_{25}):	3.681	3.236
(D_{75} - D_{25}):	406.7	1.880

GRAIN SIZE DISTRIBUTION

GRAVEL:	14.7%	COARSE SAND:	6.8%
SAND:	83.3%	MEDIUM SAND:	15.4%
MUD:	2.0%	FINE SAND:	55.9%
		V FINE SAND:	0.4%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.0%
COARSE GRAVEL:	7.3%	COARSE SILT:	0.6%
MEDIUM GRAVEL:	1.0%	MEDIUM SILT:	0.5%
FINE GRAVEL:	2.3%	FINE SILT:	0.5%
V FINE GRAVEL:	4.1%	V FINE SILT:	0.3%
V COARSE SAND:	4.8%	CLAY:	0.0%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	2487.1	386.0	1.373	359.3	1.477	Medium Sand
SORTING (σ):	6657.8	4.914	2.297	4.051	2.018	Very Poorly Sorted
SKEWNESS (Sk):	3.089	1.223	-1.223	0.759	-0.759	Very Coarse Skewed
KURTOSIS (K):	10.87	4.746	4.746	1.634	1.634	Very Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_22** ANALYST & DATE: MjGrey, 12/4/2012

SAMPLE TYPE: Unimodal, Moderately Well Sorted TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

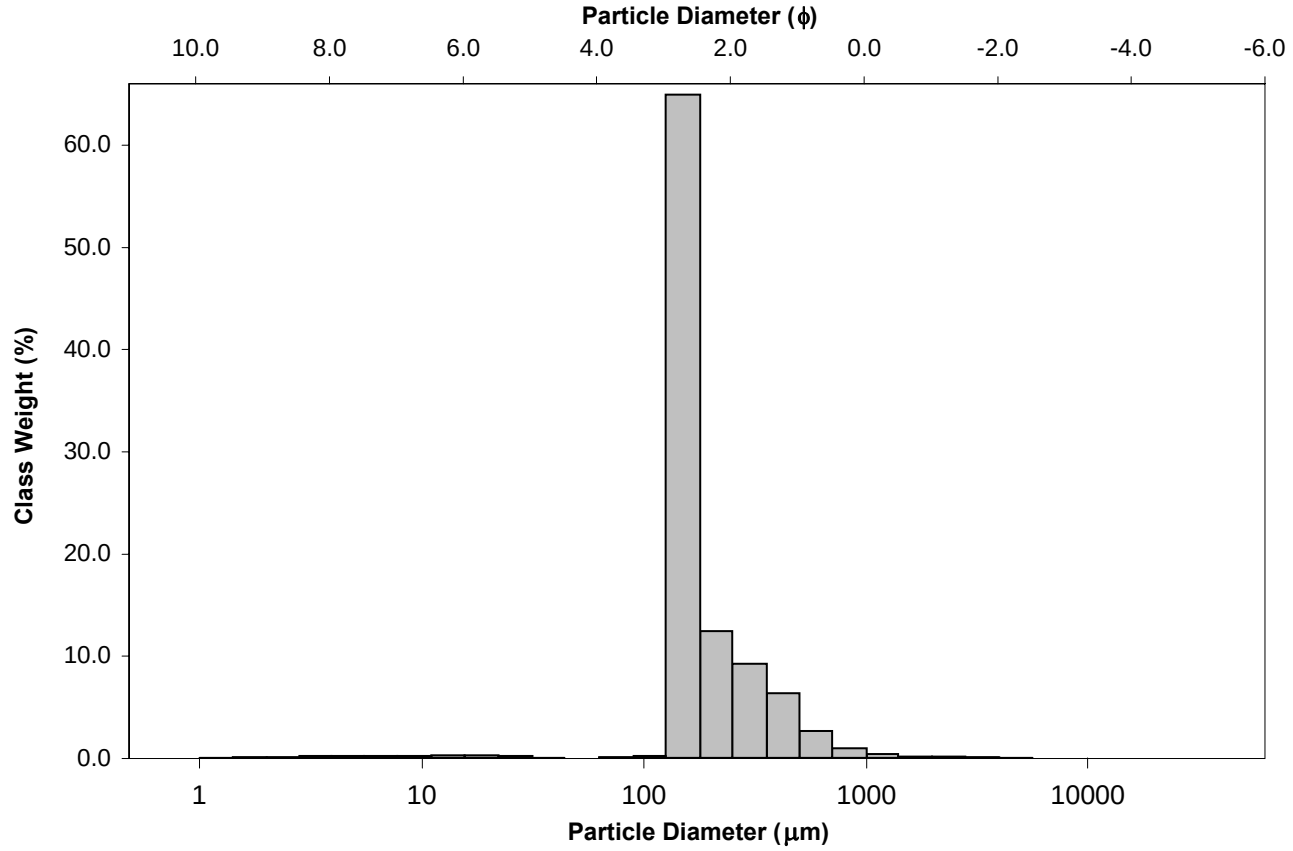
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	130.4	1.456
MEDIAN or D_{50}:	162.3	2.623
D_{90}:	364.6	2.939
(D_{90} / D_{10}):	2.795	2.019
(D_{90} - D_{10}):	234.2	1.483
(D_{75} / D_{25}):	1.513	1.269
(D_{75} - D_{25}):	72.66	0.598

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.2%	COARSE SAND:	3.6%
SAND:	97.9%	MEDIUM SAND:	15.3%
MUD:	1.9%	FINE SAND:	78.2%
		V FINE SAND:	0.3%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.0%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.5%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	0.5%
FINE GRAVEL:	0.0%	FINE SILT:	0.5%
V FINE GRAVEL:	0.2%	V FINE SILT:	0.3%
V COARSE SAND:	0.5%	CLAY:	0.1%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	219.2	179.7	2.477	184.5	2.438	Fine Sand
SORTING (σ):	206.2	1.862	0.897	1.479	0.564	Moderately Well Sorted
SKEWNESS (Sk):	9.314	-1.867	1.867	0.570	-0.570	Very Coarse Skewed
KURTOSIS (K):	145.7	18.96	18.96	1.320	1.320	Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_24** ANALYST & DATE: MjGrey, 12/4/2012 4:02:05 PM

SAMPLE TYPE: Unimodal, Moderately Well Sorted TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

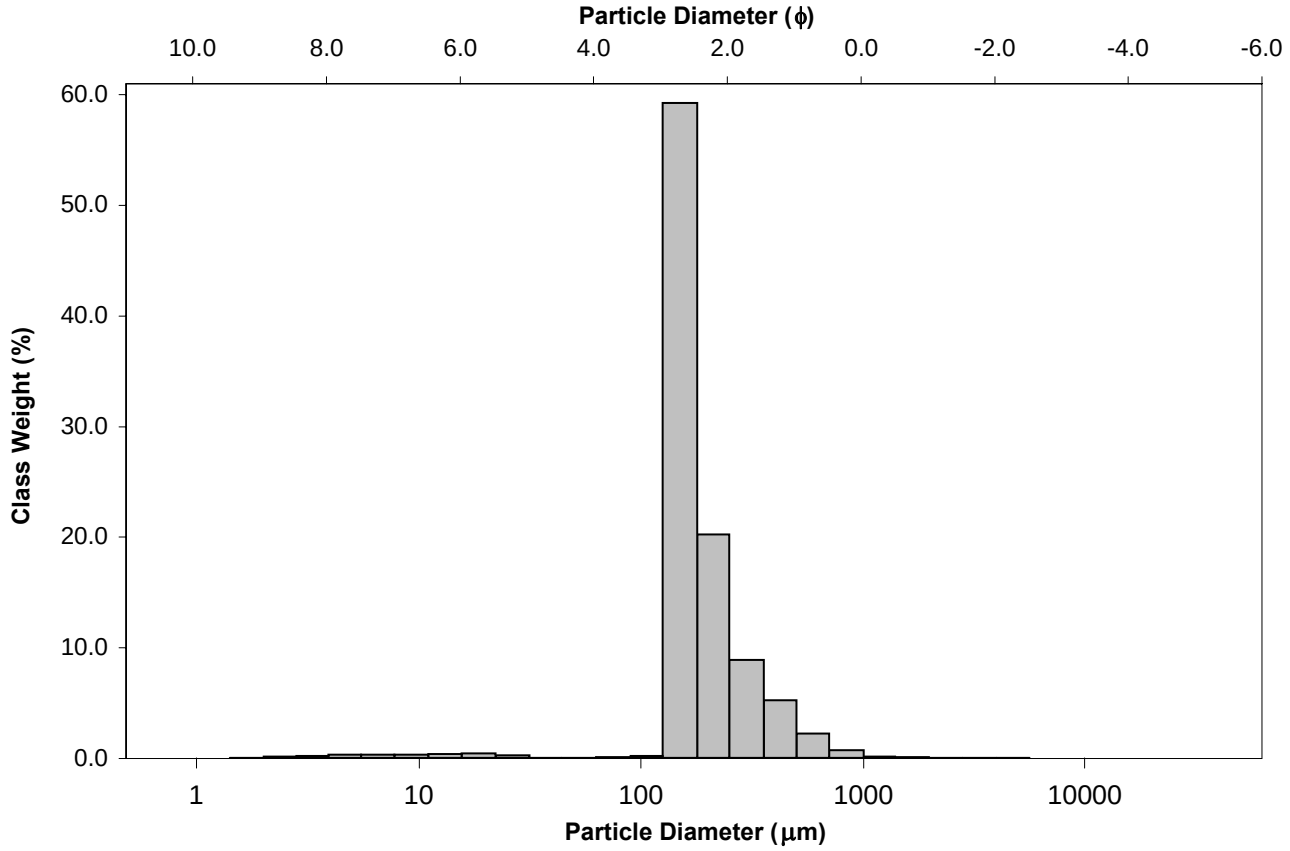
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	130.5	1.595
MEDIAN or D_{50}:	165.6	2.595
D_{90}:	331.1	2.938
(D_{90} / D_{10}):	2.537	1.842
(D_{90} - D_{10}):	200.6	1.343
(D_{75} / D_{25}):	1.526	1.277
(D_{75} - D_{25}):	75.06	0.610

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.1%	COARSE SAND:	2.9%
SAND:	97.4%	MEDIUM SAND:	13.9%
MUD:	2.5%	FINE SAND:	80.2%
		V FINE SAND:	0.3%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.0%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.7%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	0.7%
FINE GRAVEL:	0.0%	FINE SILT:	0.6%
V FINE GRAVEL:	0.1%	V FINE SILT:	0.4%
V COARSE SAND:	0.2%	CLAY:	0.0%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	208.4	175.5	2.510	180.1	2.473	Fine Sand
SORTING (σ):	164.5	1.860	0.896	1.424	0.510	Moderately Well Sorted
SKEWNESS (Sk):	11.81	-2.598	2.598	0.478	-0.478	Very Coarse Skewed
KURTOSIS (K):	262.3	19.95	19.95	1.212	1.212	Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_25** ANALYST & DATE: MjGrey, 12/4/2012

SAMPLE TYPE: Unimodal, Well Sorted TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

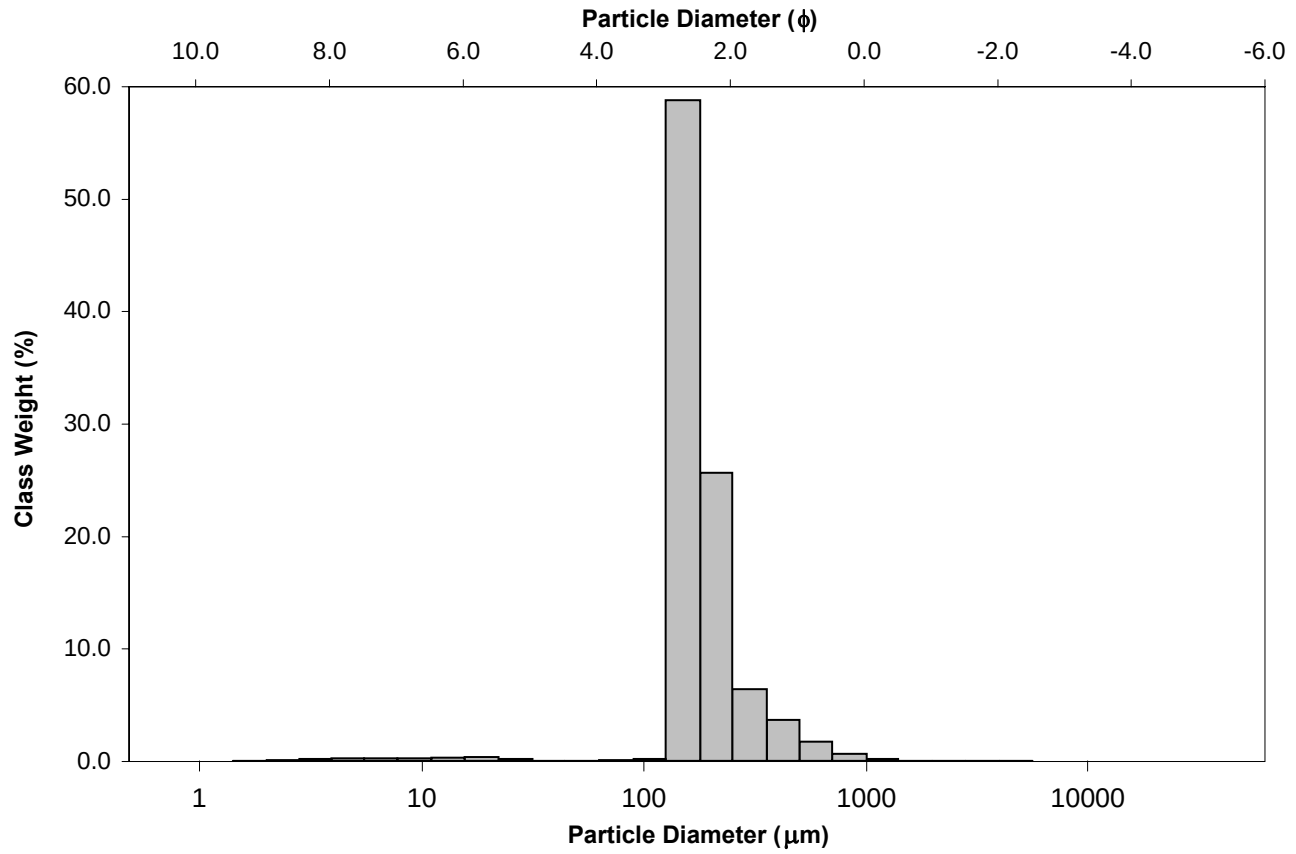
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	130.9	1.789
MEDIAN or D_{50}:	166.2	2.589
D_{90}:	289.3	2.934
(D_{90} / D_{10}):	2.211	1.640
(D_{90} - D_{10}):	158.4	1.145
(D_{75} / D_{25}):	1.475	1.250
(D_{75} - D_{25}):	68.00	0.561

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.1%	COARSE SAND:	2.4%
SAND:	97.8%	MEDIUM SAND:	9.9%
MUD:	2.0%	FINE SAND:	85.0%
		V FINE SAND:	0.3%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.0%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.6%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	0.6%
FINE GRAVEL:	0.0%	FINE SILT:	0.5%
V FINE GRAVEL:	0.1%	V FINE SILT:	0.3%
V COARSE SAND:	0.2%	CLAY:	0.0%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	203.0	174.1	2.522	175.3	2.512	Fine Sand
SORTING (σ):	169.1	1.762	0.817	1.371	0.456	Well Sorted
SKEWNESS (Sk):	13.86	-2.671	2.671	0.407	-0.407	Very Coarse Skewed
KURTOSIS (K):	310.9	23.67	23.67	1.214	1.214	Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_26** ANALYST & DATE: MjGrey, 12/4/2012

SAMPLE TYPE: Unimodal, Well Sorted TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

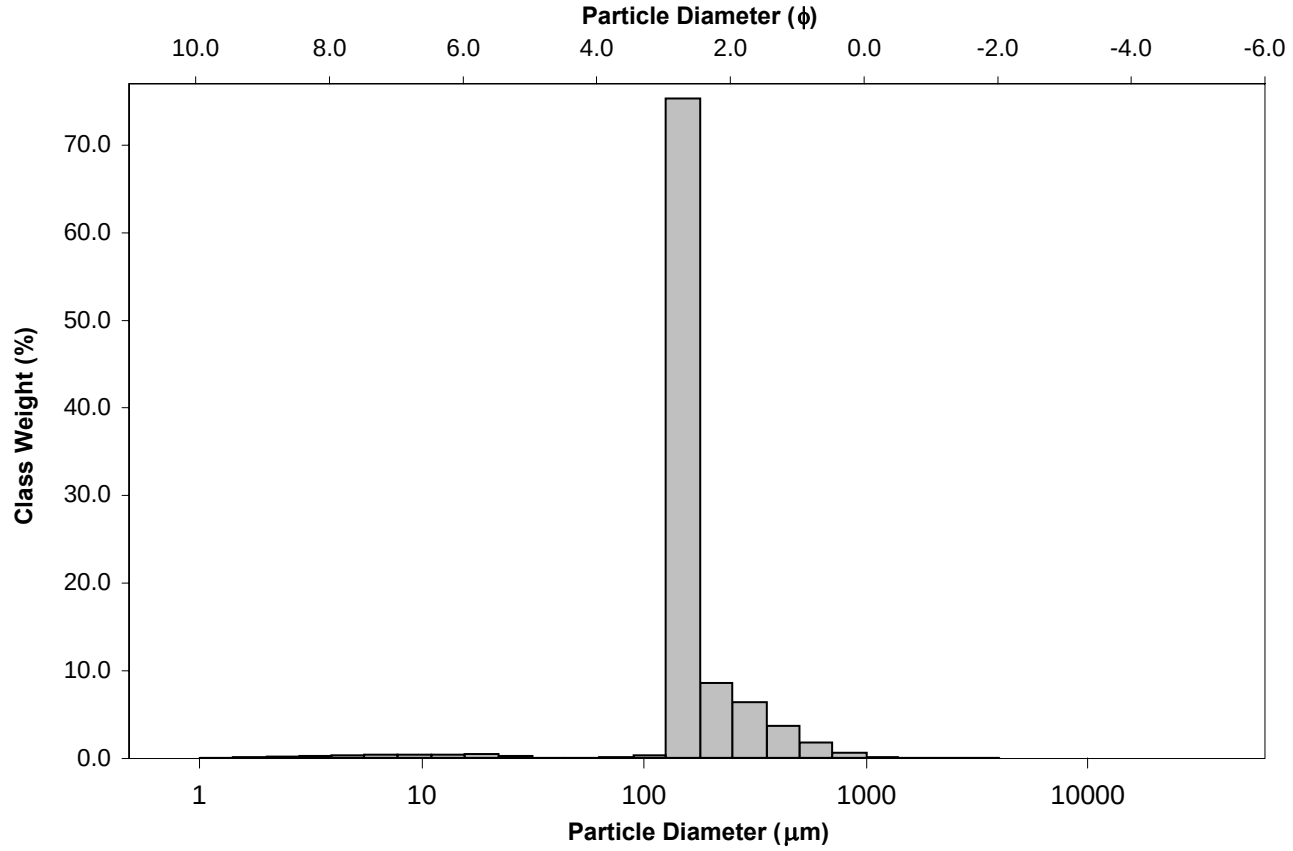
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	129.2	1.818
MEDIAN or D_{50}:	156.2	2.679
D_{90}:	283.7	2.953
(D_{90} / D_{10}):	2.196	1.624
(D_{90} - D_{10}):	154.5	1.135
(D_{75} / D_{25}):	1.268	1.137
(D_{75} - D_{25}):	37.17	0.343

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.1%	COARSE SAND:	2.3%
SAND:	97.2%	MEDIUM SAND:	9.7%
MUD:	2.7%	FINE SAND:	84.7%
		V FINE SAND:	0.4%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.0%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.7%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	0.8%
FINE GRAVEL:	0.0%	FINE SILT:	0.7%
V FINE GRAVEL:	0.1%	V FINE SILT:	0.4%
V COARSE SAND:	0.2%	CLAY:	0.1%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	188.4	160.4	2.640	164.3	2.606	Fine Sand
SORTING (σ):	137.5	1.842	0.881	1.338	0.420	Well Sorted
SKEWNESS (Sk):	9.421	-2.931	2.931	0.472	-0.472	Very Coarse Skewed
KURTOSIS (K):	167.4	22.01	22.01	1.962	1.962	Very Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_27**

ANALYST & DATE: MjGrey, 12/4/2012

SAMPLE TYPE: Unimodal, Very Well Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Fine Gravelly Fine Sand

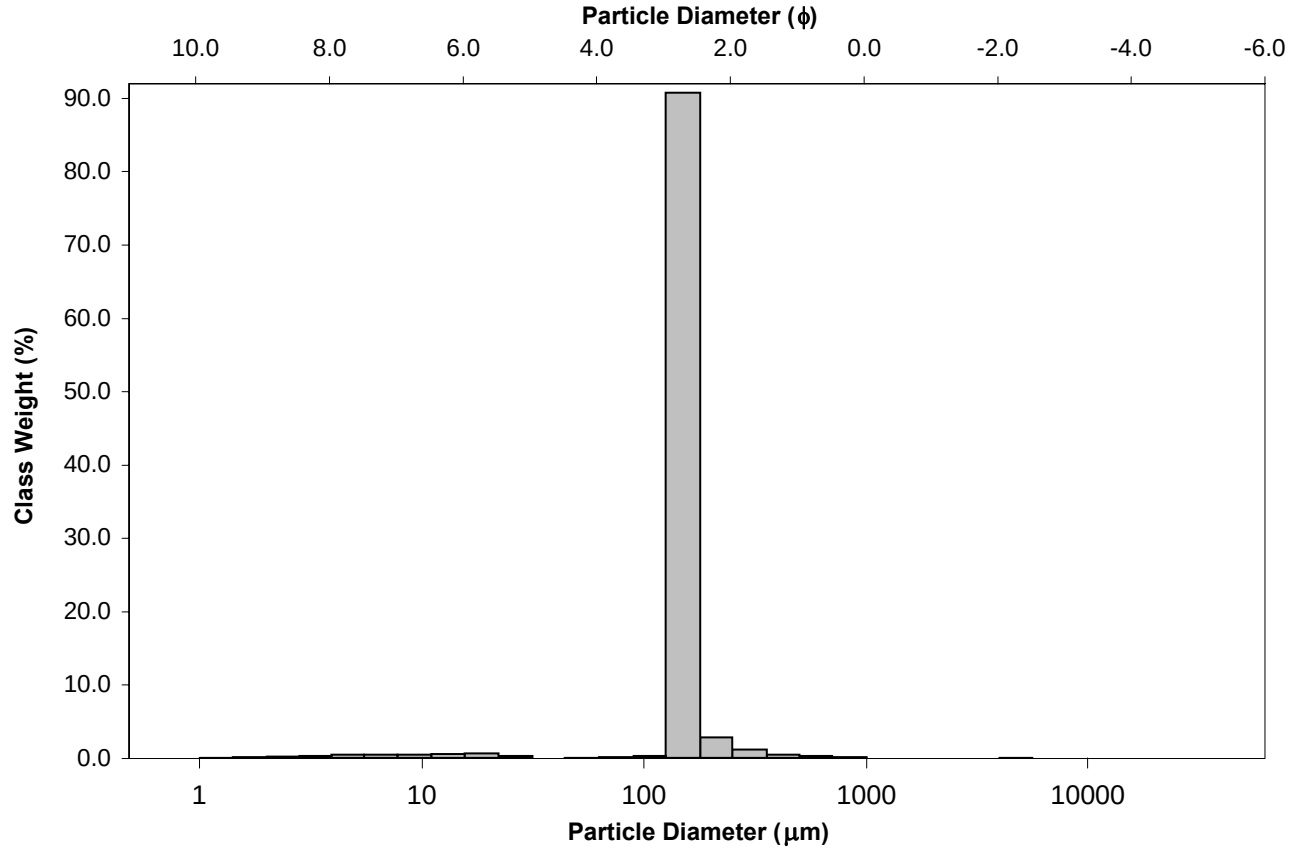
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	128.1	2.505
MEDIAN or D_{50}:	150.2	2.735
D_{90}:	176.1	2.964
(D_{90} / D_{10}):	1.375	1.183
(D_{90} - D_{10}):	48.00	0.459
(D_{75} / D_{25}):	1.220	1.111
(D_{75} - D_{25}):	29.92	0.287

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.1%	COARSE SAND:	0.4%
SAND:	96.6%	MEDIUM SAND:	1.6%
MUD:	3.4%	FINE SAND:	94.2%
		V FINE SAND:	0.4%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.0%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.9%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	1.0%
FINE GRAVEL:	0.1%	FINE SILT:	0.9%
V FINE GRAVEL:	0.0%	V FINE SILT:	0.5%
V COARSE SAND:	0.0%	CLAY:	0.1%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	156.6	139.9	2.838	150.2	2.735	Fine Sand
SORTING (σ):	119.6	1.762	0.818	1.130	0.176	Very Well Sorted
SKEWNESS (Sk):	32.39	-4.661	4.661	0.000	0.000	Symmetrical
KURTOSIS (K):	1245.0	30.33	30.33	0.738	0.738	Platykurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_29** ANALYST & DATE: MjGrey, 12/4/2012

SAMPLE TYPE: Unimodal, Well Sorted TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

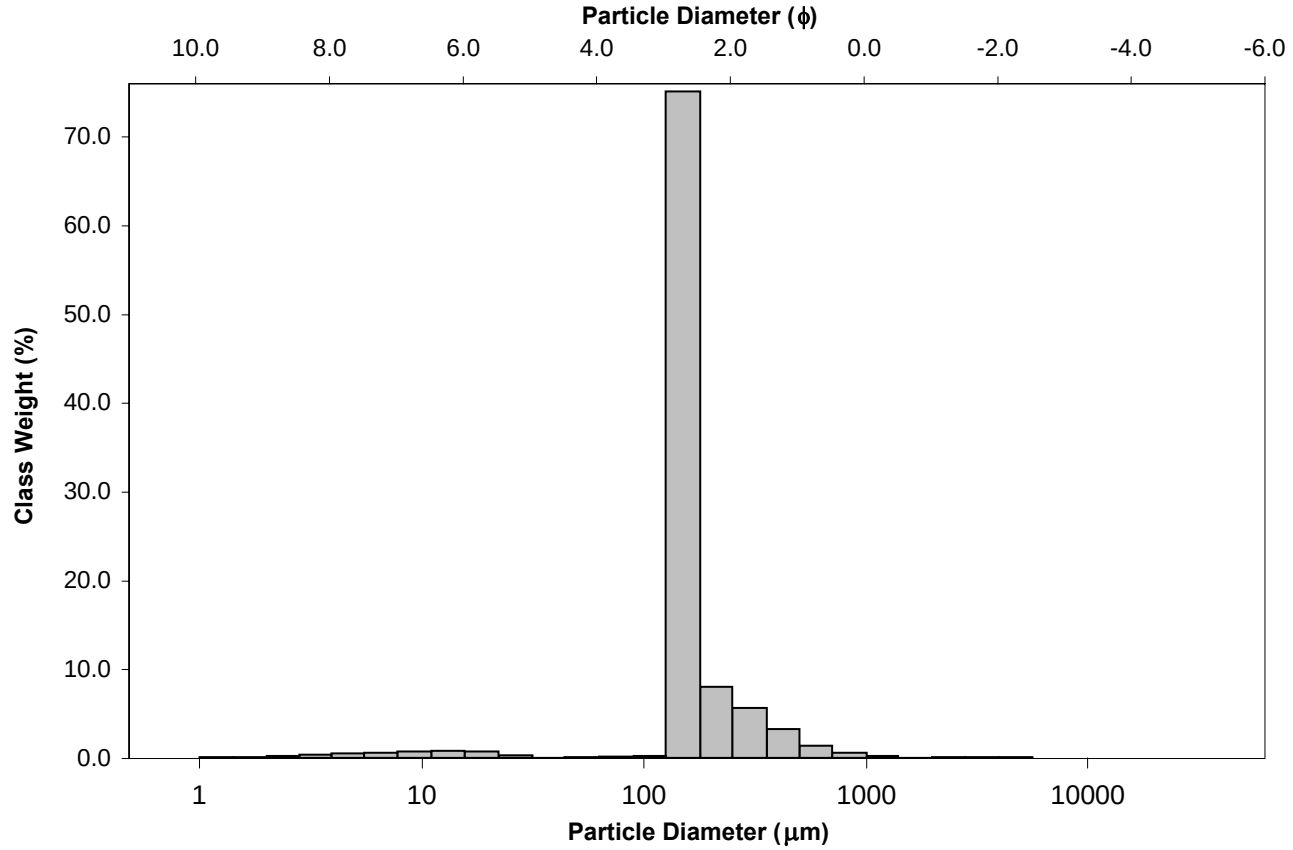
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	128.0	1.897
MEDIAN or D_{50}:	154.9	2.691
D_{90}:	268.6	2.965
(D_{90} / D_{10}):	2.098	1.563
(D_{90} - D_{10}):	140.5	1.069
(D_{75} / D_{25}):	1.269	1.136
(D_{75} - D_{25}):	36.97	0.344

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.3%	COARSE SAND:	1.9%
SAND:	95.2%	MEDIUM SAND:	8.6%
MUD:	4.5%	FINE SAND:	83.9%
		V FINE SAND:	0.4%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.1%
COARSE GRAVEL:	0.0%	COARSE SILT:	1.0%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	1.4%
FINE GRAVEL:	0.1%	FINE SILT:	1.2%
V FINE GRAVEL:	0.2%	V FINE SILT:	0.6%
V COARSE SAND:	0.3%	CLAY:	0.3%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	189.2	150.6	2.731	160.1	2.643	Fine Sand
SORTING (σ):	207.2	2.123	1.086	1.315	0.395	Well Sorted
SKEWNESS (Sk):	13.41	-2.798	2.798	0.424	-0.424	Very Coarse Skewed
KURTOSIS (K):	249.8	17.27	17.27	1.913	1.913	Very Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_31**

ANALYST & DATE: MjGrey, 12/4/2012

SAMPLE TYPE: Unimodal, Very Well Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Fine Gravelly Fine Sand

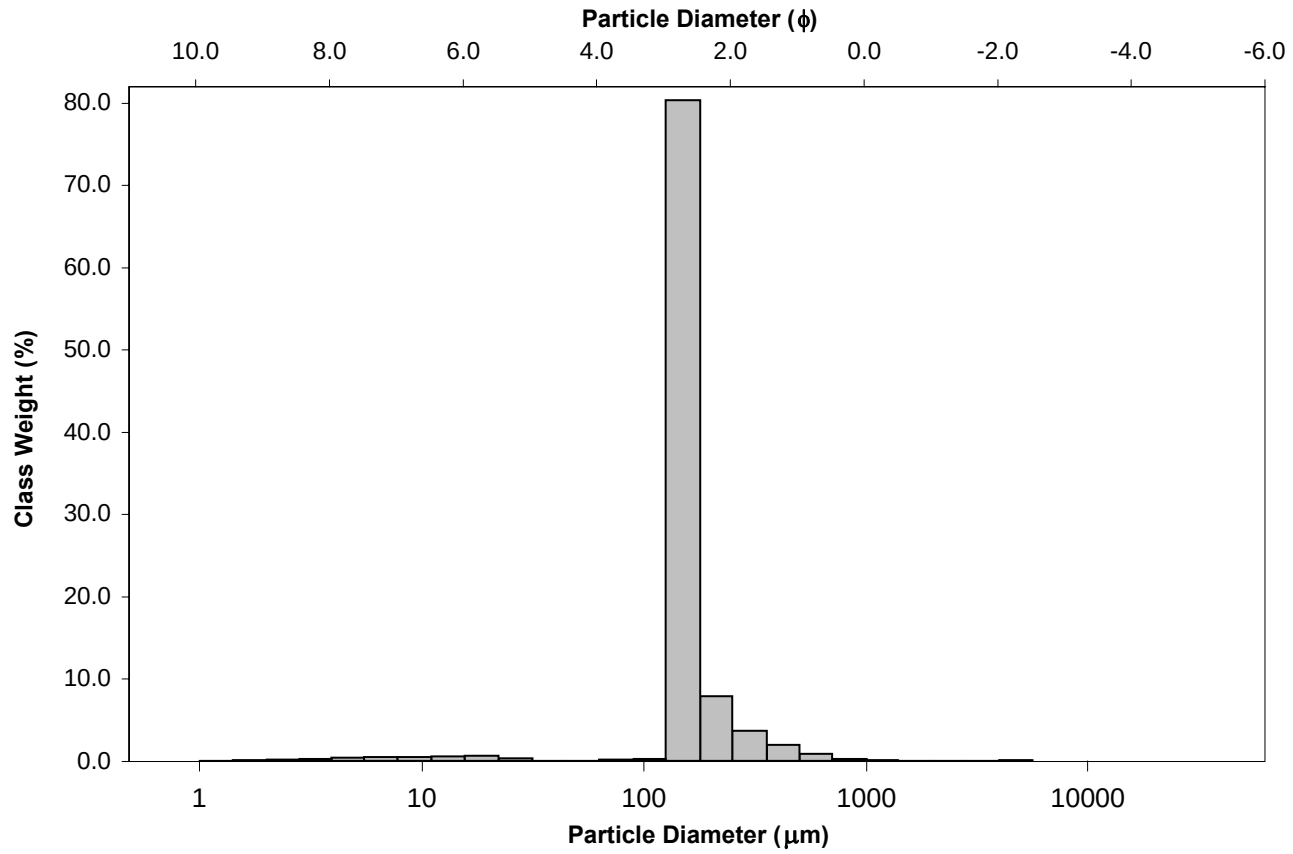
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	128.3	2.204
MEDIAN or D_{50}:	153.4	2.705
D_{90}:	217.0	2.963
(D_{90} / D_{10}):	1.692	1.344
(D_{90} - D_{10}):	88.74	0.759
(D_{75} / D_{25}):	1.250	1.127
(D_{75} - D_{25}):	34.31	0.322

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.2%	COARSE SAND:	1.1%
SAND:	96.1%	MEDIUM SAND:	5.5%
MUD:	3.7%	FINE SAND:	88.9%
		V FINE SAND:	0.5%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.0%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.9%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	1.1%
FINE GRAVEL:	0.1%	FINE SILT:	0.9%
V FINE GRAVEL:	0.1%	V FINE SILT:	0.5%
V COARSE SAND:	0.1%	CLAY:	0.2%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	174.8	147.4	2.762	153.4	2.705	Fine Sand
SORTING (σ):	172.4	1.926	0.945	1.231	0.300	Very Well Sorted
SKEWNESS (Sk):	18.57	-3.481	3.481	0.270	-0.270	Coarse Skewed
KURTOSIS (K):	451.1	23.16	23.16	1.602	1.602	Very Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_32** ANALYST & DATE: MjGrey, 12/5/2012

SAMPLE TYPE: Unimodal, Moderately Well Sorted TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Fine Gravelly Fine Sand

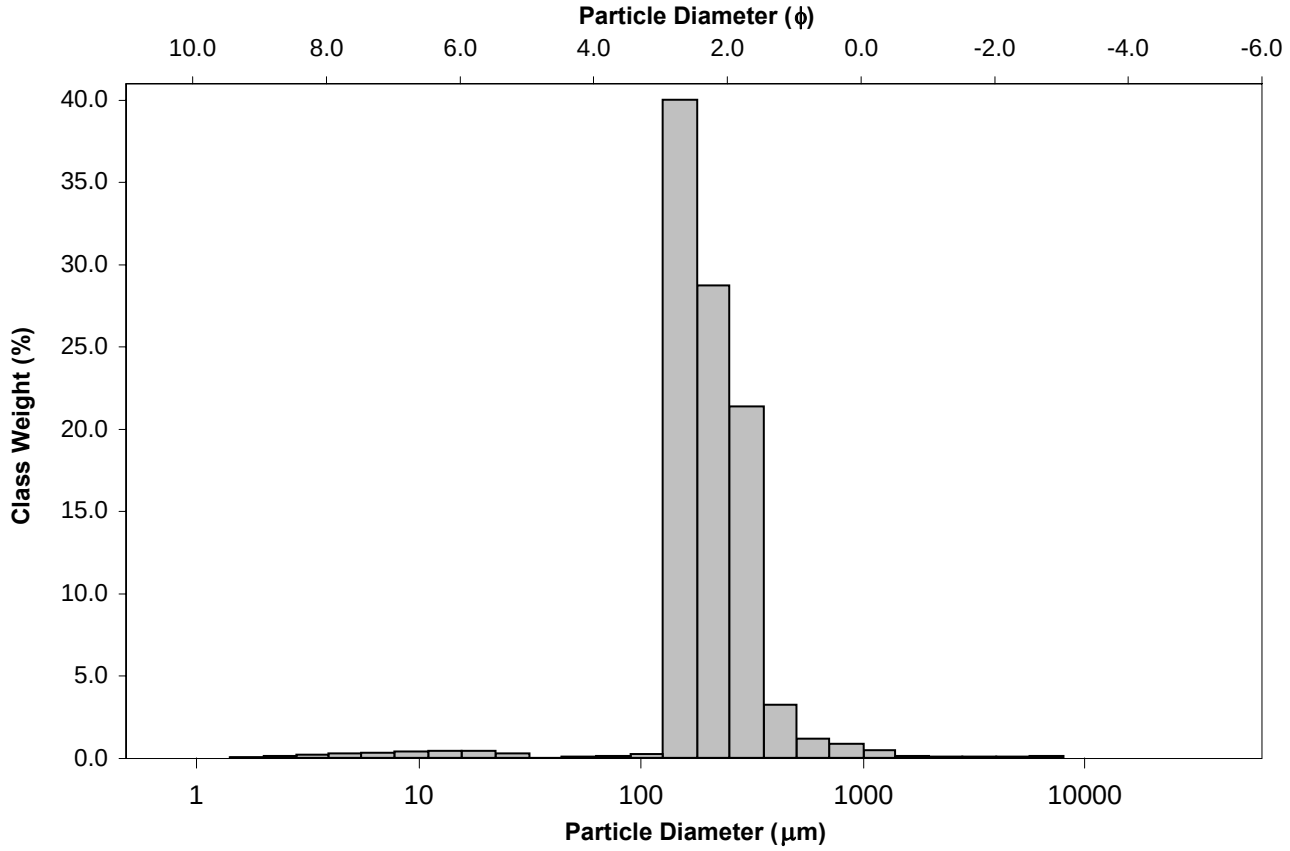
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	132.8	1.579
MEDIAN or D_{50}:	191.3	2.386
D_{90}:	334.7	2.913
(D_{90} / D_{10}):	2.520	1.845
(D_{90} - D_{10}):	201.9	1.334
(D_{75} / D_{25}):	1.733	1.411
(D_{75} - D_{25}):	110.9	0.793

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.5%	COARSE SAND:	2.1%
SAND:	96.9%	MEDIUM SAND:	24.7%
MUD:	2.7%	FINE SAND:	69.0%
		V FINE SAND:	0.4%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.1%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.7%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	0.8%
FINE GRAVEL:	0.3%	FINE SILT:	0.6%
V FINE GRAVEL:	0.2%	V FINE SILT:	0.3%
V COARSE SAND:	0.6%	CLAY:	0.1%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	246.6	194.9	2.359	201.0	2.314	Fine Sand
SORTING (σ):	350.8	1.950	0.963	1.450	0.536	Moderately Well Sorted
SKEWNESS (Sk):	13.52	-2.043	2.043	0.249	-0.249	Coarse Skewed
KURTOSIS (K):	223.6	18.61	18.61	0.876	0.876	Platykurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_35** ANALYST & DATE: MjGrey, 12/5/2012

SAMPLE TYPE: Unimodal, Moderately Well Sorted TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Medium Gravelly Fine Sand

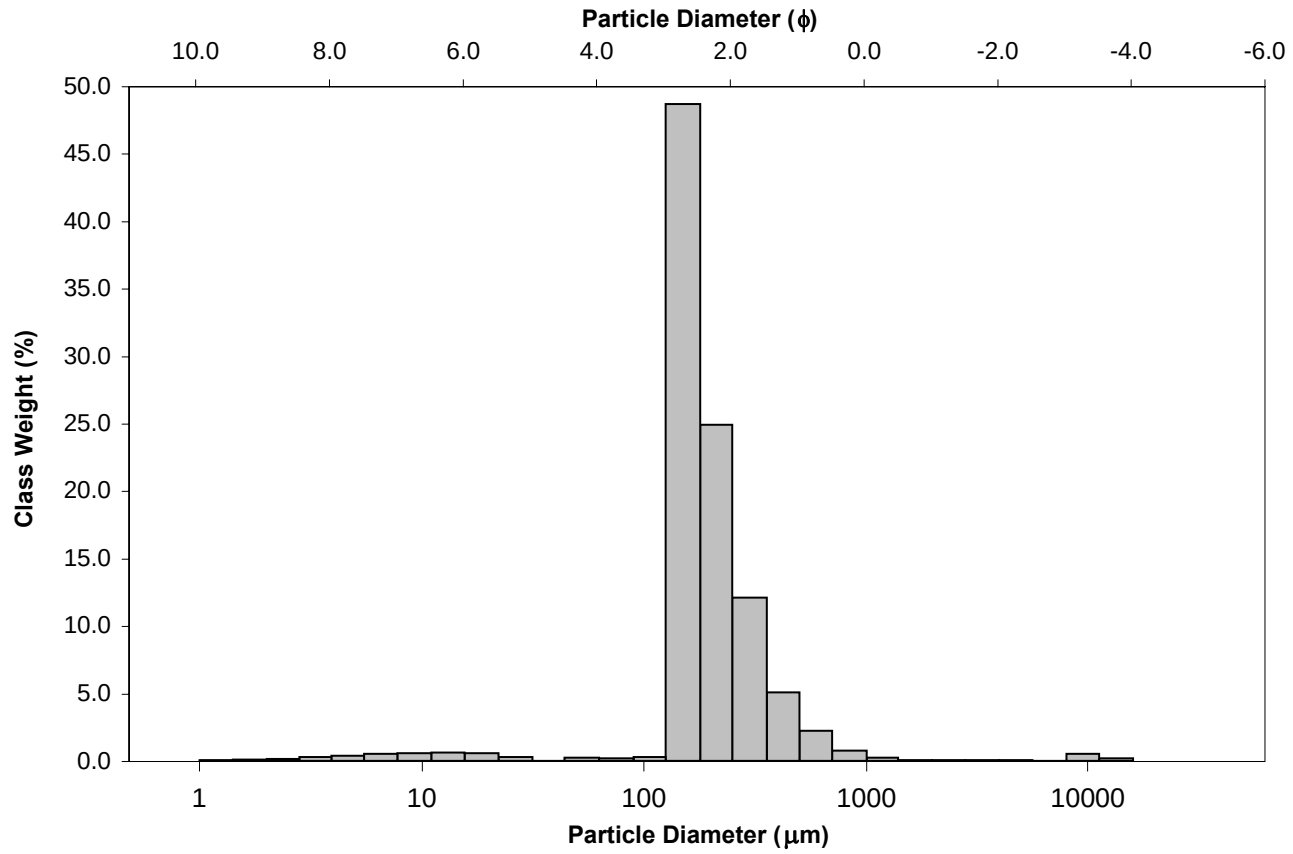
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	130.1	1.524
MEDIAN or D_{50}:	173.4	2.527
D_{90}:	347.8	2.942
(D_{90} / D_{10}):	2.673	1.931
(D_{90} - D_{10}):	217.7	1.419
(D_{75} / D_{25}):	1.641	1.345
(D_{75} - D_{25}):	92.92	0.715

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.9%	COARSE SAND:	3.0%
SAND:	95.1%	MEDIUM SAND:	17.1%
MUD:	3.9%	FINE SAND:	74.1%
		V FINE SAND:	0.5%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.3%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.9%
MEDIUM GRAVEL:	0.7%	MEDIUM SILT:	1.2%
FINE GRAVEL:	0.1%	FINE SILT:	0.9%
V FINE GRAVEL:	0.1%	V FINE SILT:	0.5%
V COARSE SAND:	0.3%	CLAY:	0.2%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	298.4	182.3	2.455	190.3	2.394	Fine Sand
SORTING (σ):	942.2	2.259	1.176	1.483	0.569	Moderately Well Sorted
SKEWNESS (Sk):	11.36	-1.111	1.111	0.439	-0.439	Very Coarse Skewed
KURTOSIS (K):	138.8	15.85	15.85	1.105	1.105	Mesokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_37**

ANALYST & DATE: MjGrey, 12/5/2012

SAMPLE TYPE: Bimodal, Poorly Sorted

TEXTURAL GROUP: Gravelly Sand

SEDIMENT NAME: Medium Gravelly Fine Sand

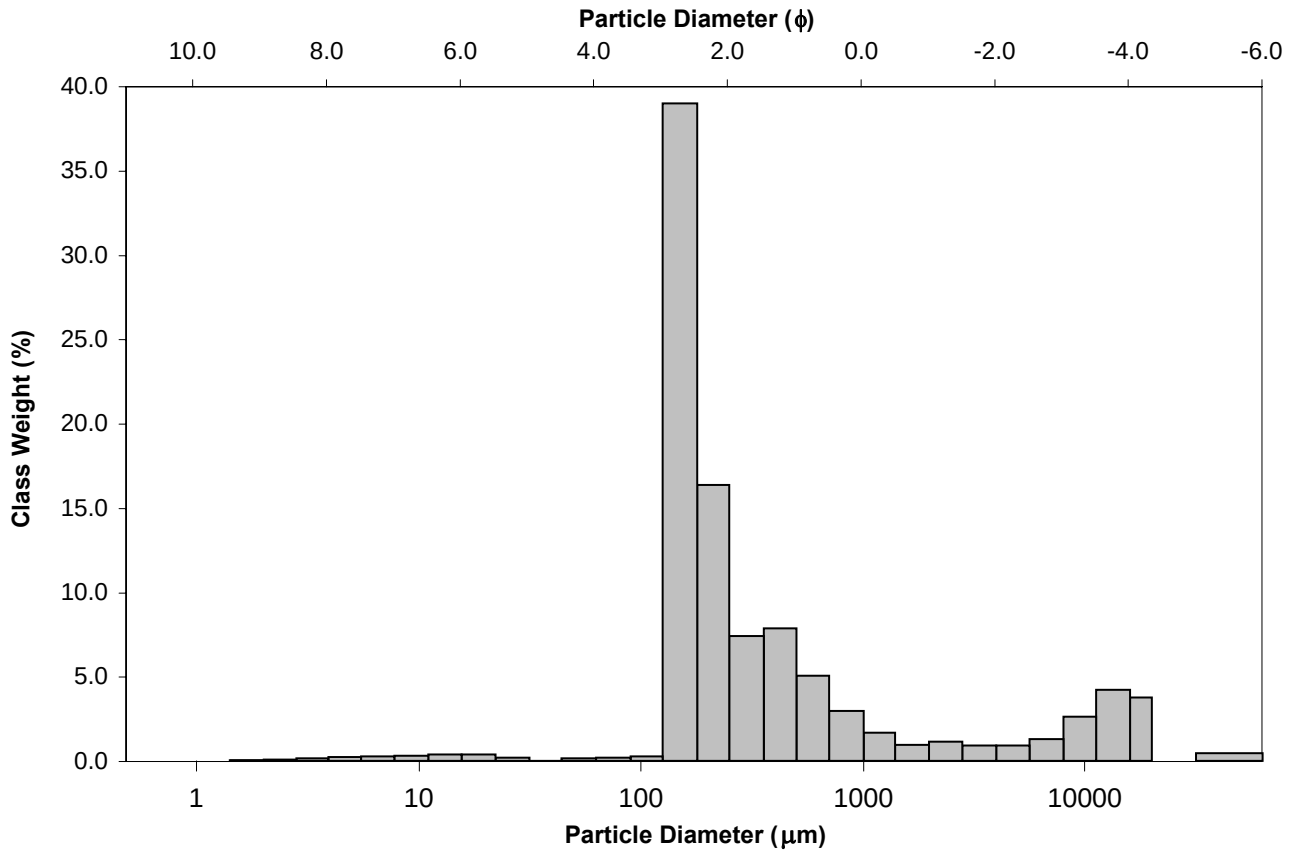
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:	427.5	1.247
MODE 3:		
D_{10}:	133.2	-3.045
MEDIAN or D_{50}:	204.8	2.287
D_{90}:	8254.4	2.908
(D_{90} / D_{10}):	61.97	-0.955
(D_{90} - D_{10}):	8121.3	5.954
(D_{75} / D_{25}):	3.353	2.799
(D_{75} - D_{25}):	358.2	1.746

GRAIN SIZE DISTRIBUTION

GRAVEL:	14.6%	COARSE SAND:	8.1%
SAND:	83.0%	MEDIUM SAND:	15.3%
MUD:	2.4%	FINE SAND:	56.6%
		V FINE SAND:	0.5%
V COARSE GRAVEL:	0.9%	V COARSE SILT:	0.2%
COARSE GRAVEL:	2.5%	COARSE SILT:	0.6%
MEDIUM GRAVEL:	6.9%	MEDIUM SILT:	0.7%
FINE GRAVEL:	2.3%	FINE SILT:	0.6%
V FINE GRAVEL:	2.1%	V FINE SILT:	0.3%
V COARSE SAND:	2.7%	CLAY:	0.0%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	2146.1	373.1	1.422	333.1	1.586	Medium Sand
SORTING (σ):	5937.0	4.794	2.261	3.543	1.825	Poorly Sorted
SKEWNESS (Sk):	4.822	1.130	-1.130	0.729	-0.729	Very Coarse Skewed
KURTOSIS (K):	32.43	4.562	4.562	1.591	1.591	Very Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_39** ANALYST & DATE: MjGrey, 12/5/2012

SAMPLE TYPE: Unimodal, Moderately Well Sorted TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Medium Gravelly Fine Sand

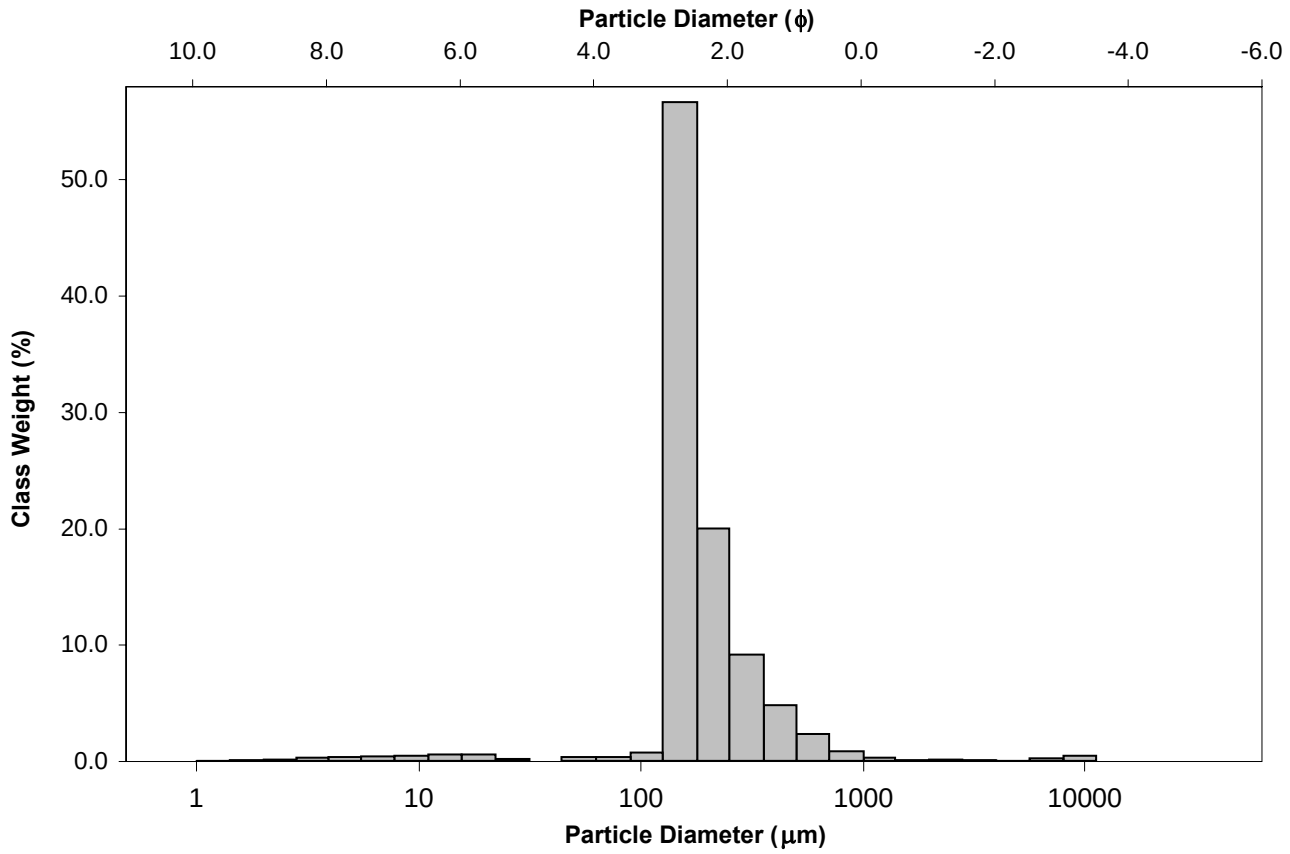
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	129.4	1.543
MEDIAN or D_{50}:	165.9	2.592
D_{90}:	343.3	2.950
(D_{90} / D_{10}):	2.653	1.913
(D_{90} - D_{10}):	213.9	1.408
(D_{75} / D_{25}):	1.562	1.296
(D_{75} - D_{25}):	79.84	0.644

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.9%	COARSE SAND:	3.2%
SAND:	95.6%	MEDIUM SAND:	13.7%
MUD:	3.4%	FINE SAND:	77.3%
		V FINE SAND:	1.0%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.3%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.7%
MEDIUM GRAVEL:	0.5%	MEDIUM SILT:	1.0%
FINE GRAVEL:	0.3%	FINE SILT:	0.8%
V FINE GRAVEL:	0.2%	V FINE SILT:	0.4%
V COARSE SAND:	0.4%	CLAY:	0.1%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	273.2	177.5	2.494	182.4	2.455	Fine Sand
SORTING (σ):	744.9	2.151	1.105	1.463	0.549	Moderately Well Sorted
SKEWNESS (Sk):	11.05	-0.957	0.957	0.493	-0.493	Very Coarse Skewed
KURTOSIS (K):	130.9	16.29	16.29	1.236	1.236	Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_40** ANALYST & DATE: MjGrey, 12/5/2012

SAMPLE TYPE: Unimodal, Moderately Well Sorted TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

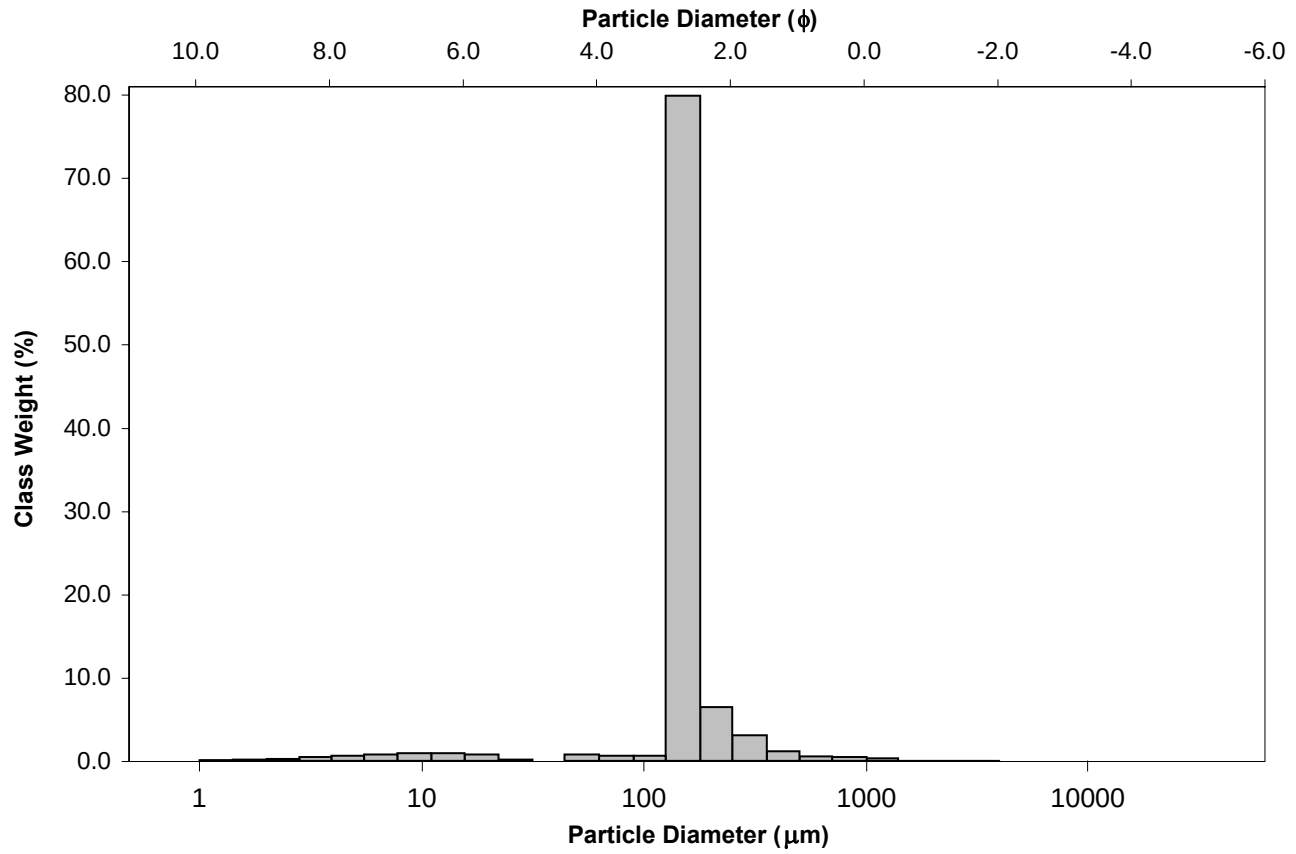
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	126.5	2.349
MEDIAN or D_{50}:	151.4	2.723
D_{90}:	196.3	2.983
(D_{90} / D_{10}):	1.552	1.270
(D_{90} - D_{10}):	69.80	0.634
(D_{75} / D_{25}):	1.252	1.127
(D_{75} - D_{25}):	34.11	0.324

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.1%	COARSE SAND:	1.1%
SAND:	93.9%	MEDIUM SAND:	4.1%
MUD:	6.0%	FINE SAND:	87.1%
		V FINE SAND:	1.3%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.8%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.9%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	1.8%
FINE GRAVEL:	0.0%	FINE SILT:	1.4%
V FINE GRAVEL:	0.1%	V FINE SILT:	0.7%
V COARSE SAND:	0.4%	CLAY:	0.4%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	166.7	136.4	2.874	151.4	2.723	Fine Sand
SORTING (σ):	126.6	2.173	1.120	1.578	0.658	Moderately Well Sorted
SKEWNESS (Sk):	10.86	-3.270	3.270	-0.272	0.272	Fine Skewed
KURTOSIS (K):	201.7	17.33	17.33	4.569	4.569	Extremely Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_42**

ANALYST & DATE: MjGrey, 12/5/2012

SAMPLE TYPE: Bimodal, Moderately Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Fine Gravelly Fine Sand

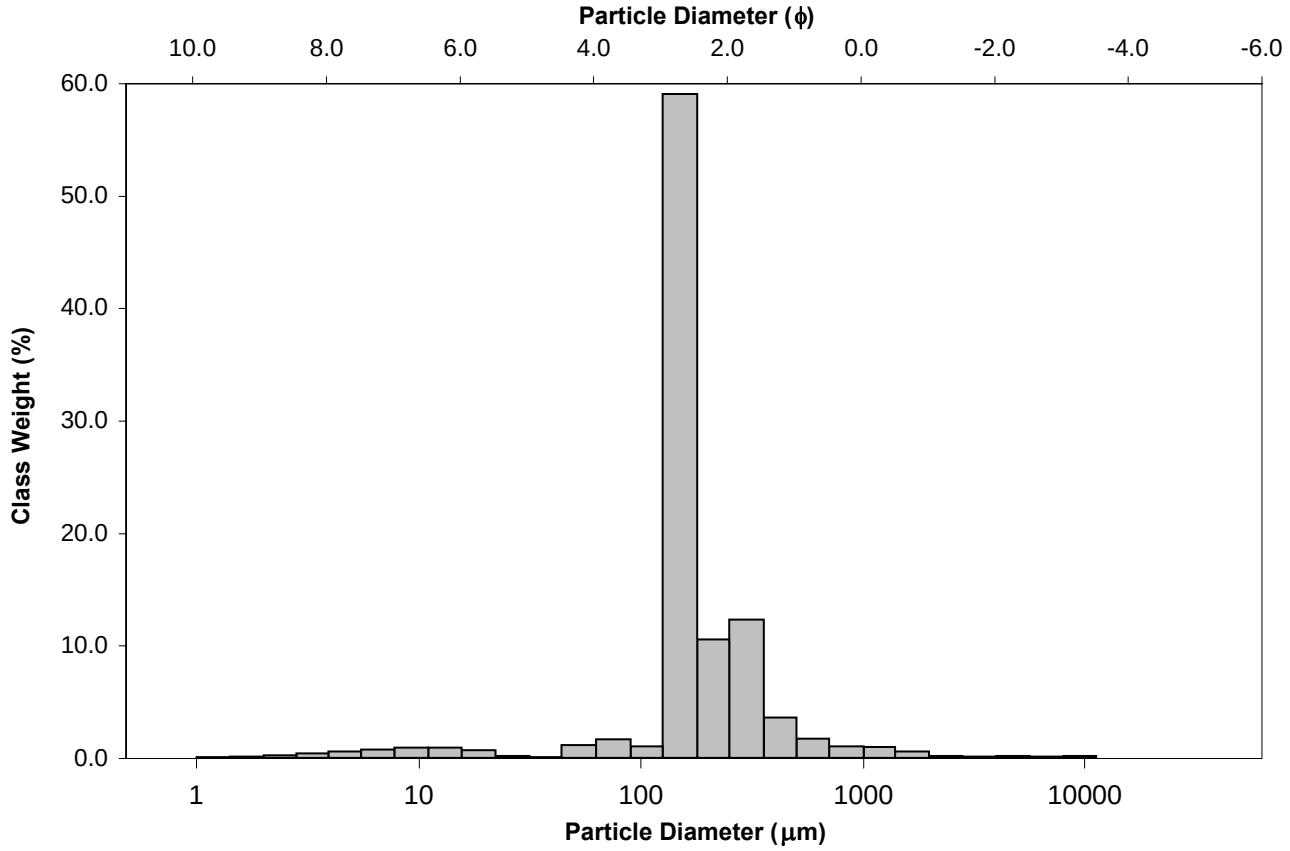
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:	302.5	1.747
MODE 3:		
D_{10}:	125.9	1.554
MEDIAN or D_{50}:	160.1	2.643
D_{90}:	340.7	2.990
(D_{90} / D_{10}):	2.706	1.924
(D_{90} - D_{10}):	214.8	1.436
(D_{75} / D_{25}):	1.572	1.296
(D_{75} - D_{25}):	78.78	0.652

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.9%	COARSE SAND:	2.7%
SAND:	93.0%	MEDIUM SAND:	15.7%
MUD:	6.2%	FINE SAND:	70.5%
		V FINE SAND:	2.6%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	1.2%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.8%
MEDIUM GRAVEL:	0.2%	MEDIUM SILT:	1.8%
FINE GRAVEL:	0.3%	FINE SILT:	1.3%
V FINE GRAVEL:	0.3%	V FINE SILT:	0.6%
V COARSE SAND:	1.5%	CLAY:	0.3%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	254.6	162.5	2.621	181.6	2.461	Fine Sand
SORTING (σ):	568.8	2.498	1.321	1.762	0.817	Moderately Sorted
SKEWNESS (Sk):	11.86	-1.491	1.491	0.212	-0.212	Coarse Skewed
KURTOSIS (K):	170.2	11.71	11.71	2.212	2.212	Very Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_43**

ANALYST & DATE: MjGrey, 12/5/2012

SAMPLE TYPE: Unimodal, Moderately Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Fine Gravelly Fine Sand

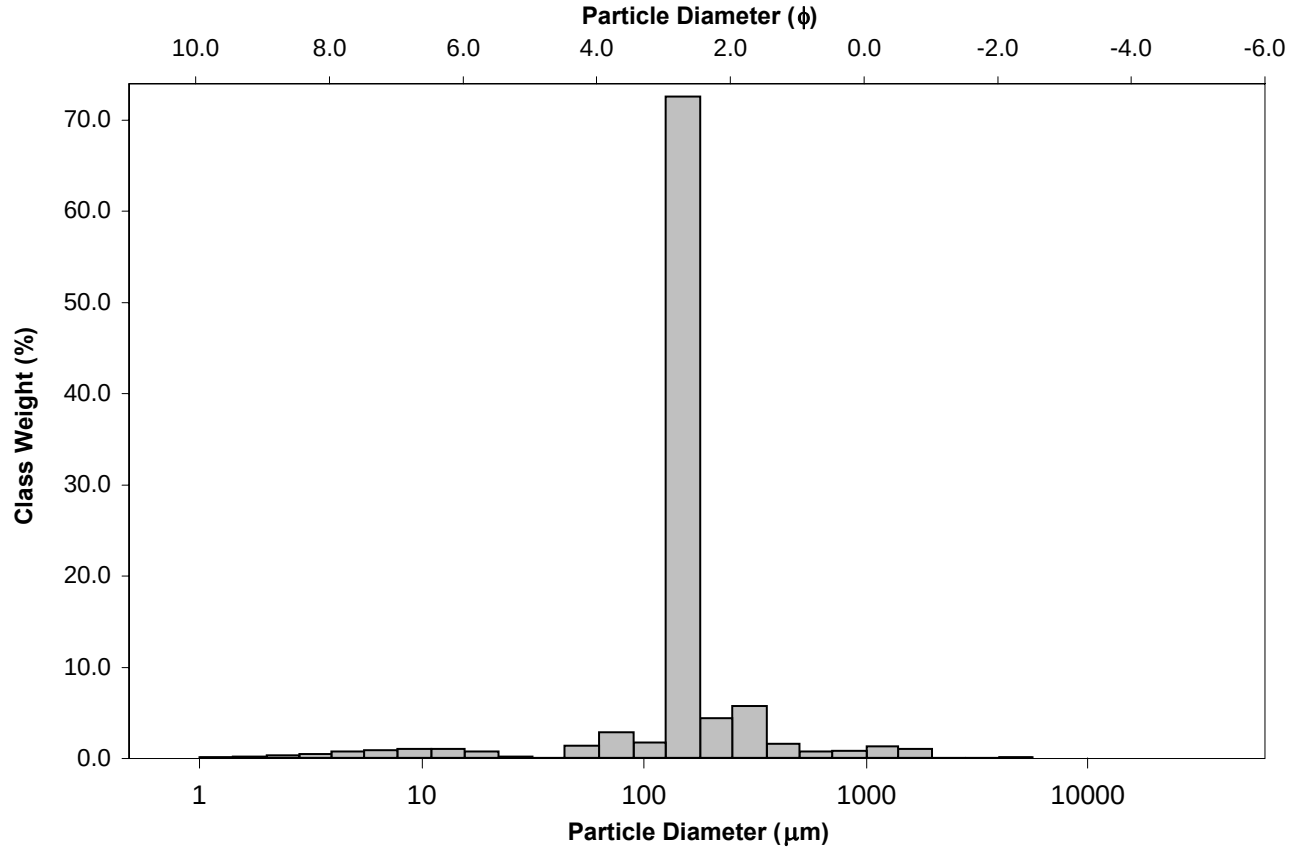
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	97.26	1.920
MEDIAN or D_{50}:	151.4	2.724
D_{90}:	264.3	3.362
(D_{90} / D_{10}):	2.718	1.751
(D_{90} - D_{10}):	167.1	1.442
(D_{75} / D_{25}):	1.280	1.140
(D_{75} - D_{25}):	37.47	0.356

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.1%	COARSE SAND:	1.4%
SAND:	93.1%	MEDIUM SAND:	7.2%
MUD:	6.8%	FINE SAND:	77.9%
		V FINE SAND:	4.4%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	1.4%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.8%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	1.9%
FINE GRAVEL:	0.1%	FINE SILT:	1.5%
V FINE GRAVEL:	0.1%	V FINE SILT:	0.8%
V COARSE SAND:	2.2%	CLAY:	0.5%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	197.4	141.0	2.827	151.4	2.724	Fine Sand
SORTING (σ):	257.9	2.417	1.273	1.703	0.768	Moderately Sorted
SKEWNESS (Sk):	8.152	-2.040	2.040	-0.192	0.192	Fine Skewed
KURTOSIS (K):	103.4	12.48	12.48	4.915	4.915	Extremely Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_45**

ANALYST & DATE: MjGrey, 12/5/2012

SAMPLE TYPE: Bimodal, Poorly Sorted

TEXTURAL GROUP: Gravelly Sand

SEDIMENT NAME: Coarse Gravelly Fine Sand

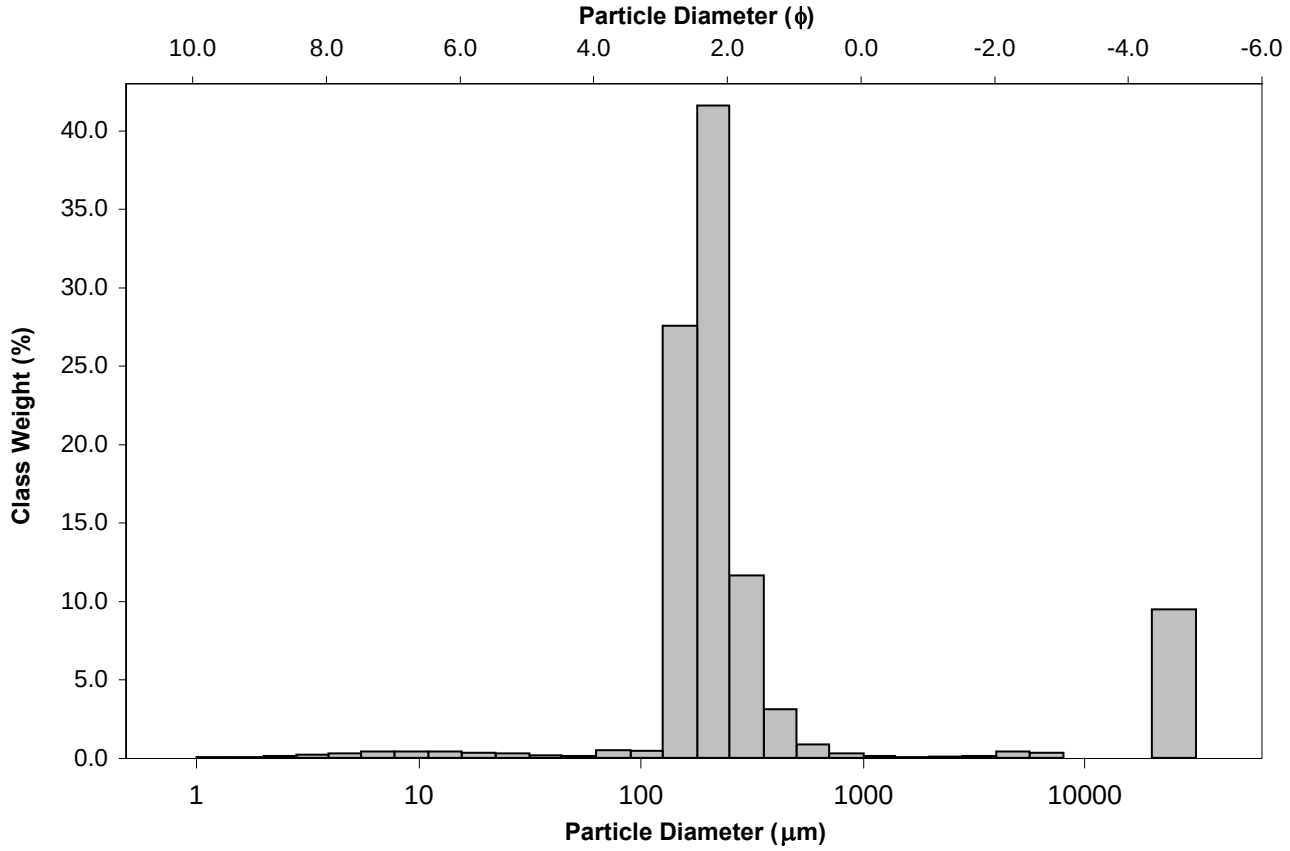
	μm	ϕ
MODE 1:	215.0	2.237
MODE 2:	25750.0	-4.650
MODE 3:		
D_{10}:	135.3	-4.439
MEDIAN or D_{50}:	209.3	2.256
D_{90}:	21686.5	2.886
(D_{90} / D_{10}):	160.3	-0.650
(D_{90} - D_{10}):	21551.2	7.324
(D_{75} / D_{25}):	1.725	1.432
(D_{75} - D_{25}):	119.0	0.787

GRAIN SIZE DISTRIBUTION

GRAVEL:	13.2%	COARSE SAND:	1.2%
SAND:	83.9%	MEDIUM SAND:	14.5%
MUD:	2.9%	FINE SAND:	67.1%
		V FINE SAND:	0.9%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.3%
COARSE GRAVEL:	12.2%	COARSE SILT:	0.6%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	0.8%
FINE GRAVEL:	0.8%	FINE SILT:	0.7%
V FINE GRAVEL:	0.2%	V FINE SILT:	0.3%
V COARSE SAND:	0.2%	CLAY:	0.2%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	3370.4	346.9	1.527	234.8	2.090	Fine Sand
SORTING (σ):	8346.2	5.690	2.508	2.925	1.548	Poorly Sorted
SKEWNESS (Sk):	2.299	1.502	-1.502	0.568	-0.568	Very Coarse Skewed
KURTOSIS (K):	6.309	5.307	5.307	4.003	4.003	Extremely Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_46** ANALYST & DATE: MjGrey, 12/5/2012

SAMPLE TYPE: Unimodal, Poorly Sorted TEXTURAL GROUP: Slightly Gravelly Muddy Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Medium Silty Fine Sand

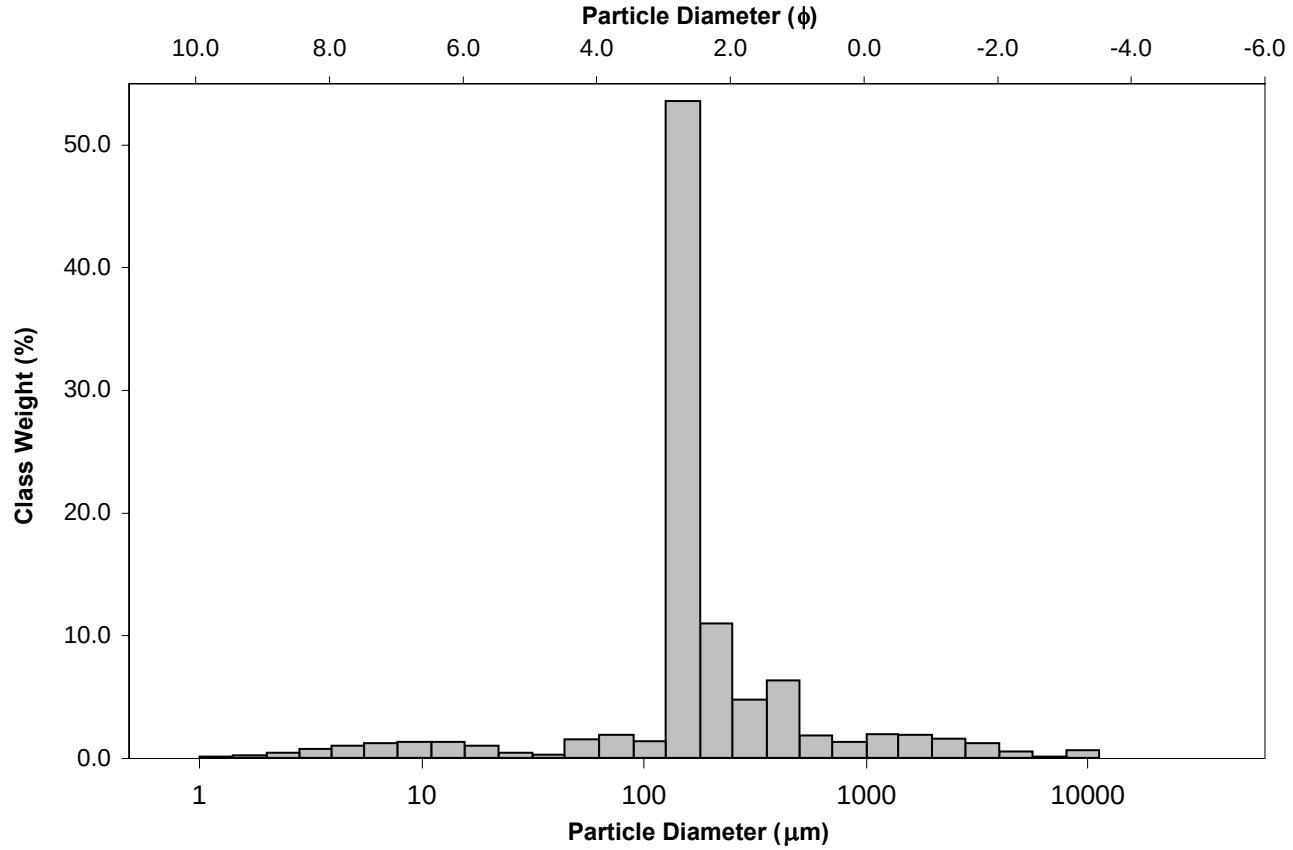
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	65.85	0.790
MEDIAN or D_{50}:	159.6	2.647
D_{90}:	578.5	3.925
(D_{90} / D_{10}):	8.786	4.971
(D_{90} - D_{10}):	512.7	3.135
(D_{75} / D_{25}):	1.657	1.338
(D_{75} - D_{25}):	88.89	0.728

GRAIN SIZE DISTRIBUTION

GRAVEL:	4.0%	COARSE SAND:	3.1%
SAND:	86.3%	MEDIUM SAND:	10.9%
MUD:	9.7%	FINE SAND:	65.4%
		V FINE SAND:	3.2%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	1.8%
COARSE GRAVEL:	0.0%	COARSE SILT:	1.4%
MEDIUM GRAVEL:	0.6%	MEDIUM SILT:	2.6%
FINE GRAVEL:	0.6%	FINE SILT:	2.2%
V FINE GRAVEL:	2.8%	V FINE SILT:	1.1%
V COARSE SAND:	3.7%	CLAY:	0.6%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	392.7	167.1	2.581	196.5	2.347	Fine Sand
SORTING (σ):	950.8	3.516	1.814	2.819	1.495	Poorly Sorted
SKEWNESS (Sk):	6.639	-0.650	0.650	0.251	-0.251	Coarse Skewed
KURTOSIS (K):	56.73	6.600	6.600	4.115	4.115	Extremely Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_47**

ANALYST & DATE: MjGrey, 12/5/2012

SAMPLE TYPE: Unimodal, Moderately Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Medium Gravelly Fine Sand

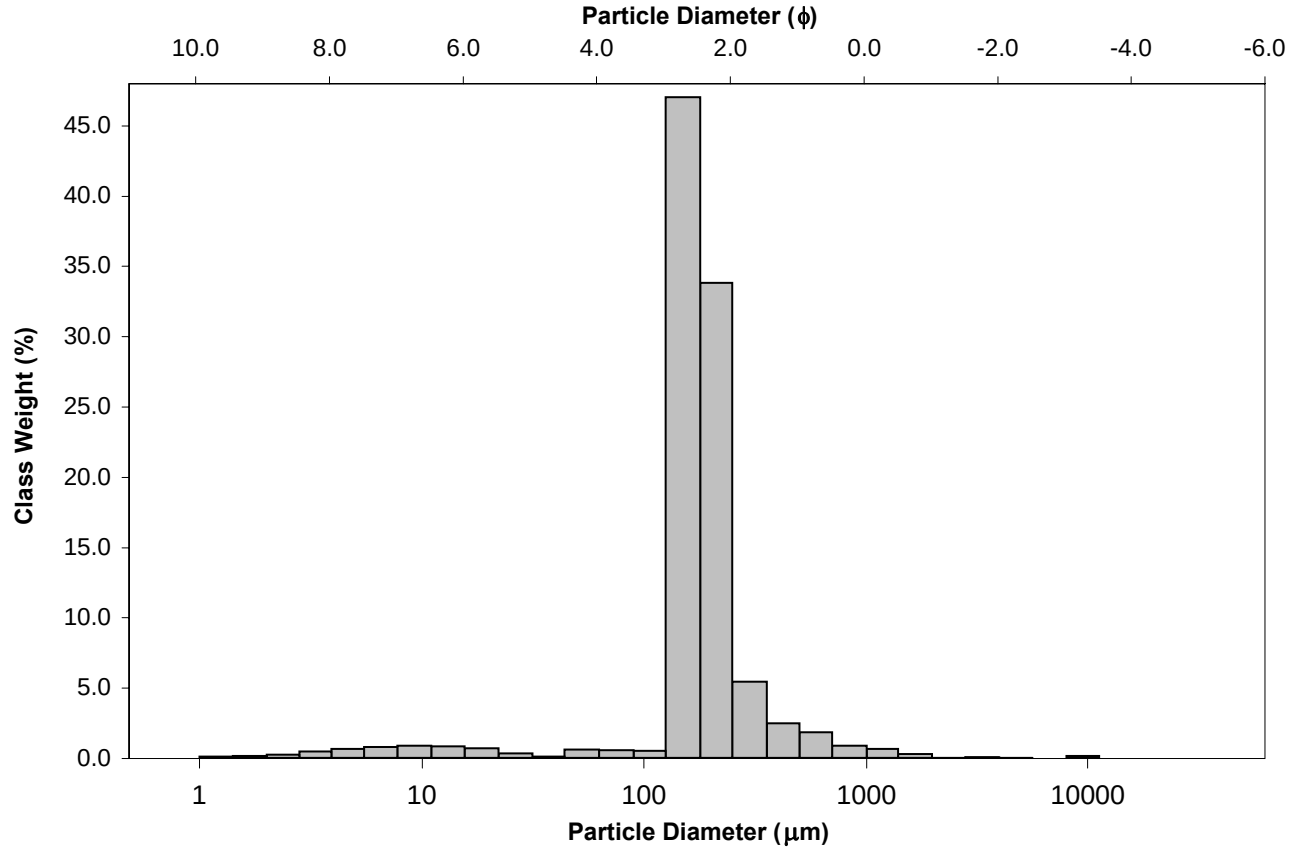
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	127.8	1.833
MEDIAN or D_{50}:	171.8	2.541
D_{90}:	280.6	2.968
(D_{90} / D_{10}):	2.196	1.619
(D_{90} - D_{10}):	152.8	1.135
(D_{75} / D_{25}):	1.528	1.279
(D_{75} - D_{25}):	75.46	0.612

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.2%	COARSE SAND:	2.7%
SAND:	93.8%	MEDIUM SAND:	7.9%
MUD:	6.0%	FINE SAND:	81.2%
		V FINE SAND:	1.0%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.7%
COARSE GRAVEL:	0.0%	COARSE SILT:	1.1%
MEDIUM GRAVEL:	0.2%	MEDIUM SILT:	1.7%
FINE GRAVEL:	0.0%	FINE SILT:	1.4%
V FINE GRAVEL:	0.1%	V FINE SILT:	0.7%
V COARSE SAND:	0.9%	CLAY:	0.4%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	221.5	161.3	2.632	176.5	2.502	Fine Sand
SORTING (σ):	411.9	2.362	1.240	1.777	0.830	Moderately Sorted
SKEWNESS (Sk):	18.84	-2.379	2.379	-0.110	0.110	Fine Skewed
KURTOSIS (K):	416.5	13.96	13.96	2.737	2.737	Very Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_48**

ANALYST & DATE: MjGrey, 12/5/2012

SAMPLE TYPE: Unimodal, Moderately Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Fine Gravelly Fine Sand

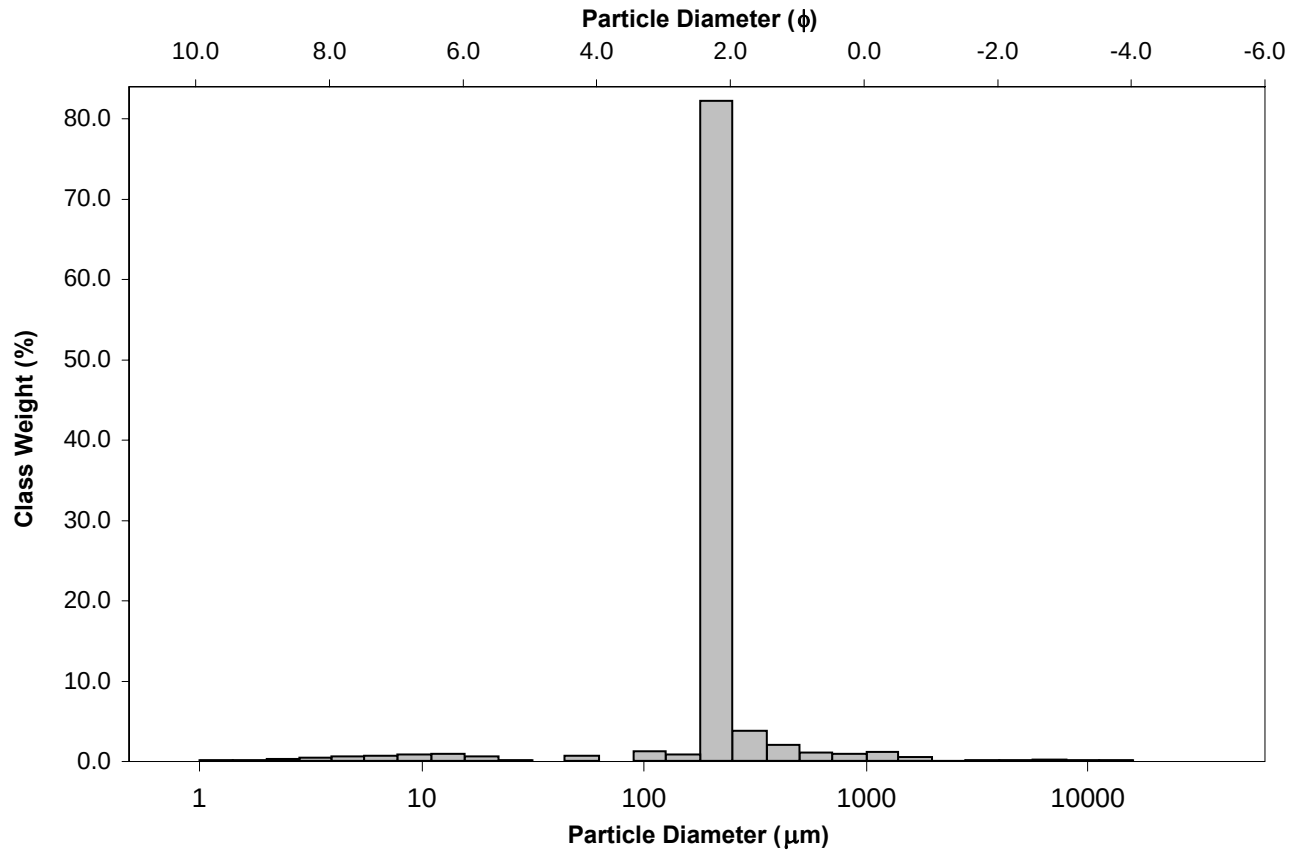
	μm	ϕ
MODE 1:	215.0	2.237
MODE 2:		
MODE 3:		
D_{10}:	181.5	1.941
MEDIAN or D_{50}:	213.2	2.230
D_{90}:	260.5	2.462
(D_{90} / D_{10}):	1.435	1.269
(D_{90} - D_{10}):	78.97	0.521
(D_{75} / D_{25}):	1.223	1.139
(D_{75} - D_{25}):	42.98	0.290

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.7%	COARSE SAND:	2.0%
SAND:	93.5%	MEDIUM SAND:	6.1%
MUD:	5.9%	FINE SAND:	82.5%
		V FINE SAND:	1.2%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.8%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.8%
MEDIUM GRAVEL:	0.2%	MEDIUM SILT:	1.7%
FINE GRAVEL:	0.3%	FINE SILT:	1.4%
V FINE GRAVEL:	0.2%	V FINE SILT:	0.7%
V COARSE SAND:	1.6%	CLAY:	0.4%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	283.8	193.6	2.369	213.2	2.230	Fine Sand
SORTING (σ):	650.2	2.467	1.302	1.647	0.720	Moderately Sorted
SKEWNESS (Sk):	14.52	-2.399	2.399	-0.238	0.238	Fine Skewed
KURTOSIS (K):	250.1	15.16	15.16	5.785	5.785	Extremely Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_49**

ANALYST & DATE: MjGrey, 12/5/2012

SAMPLE TYPE: Unimodal, Well Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Medium Gravelly Fine Sand

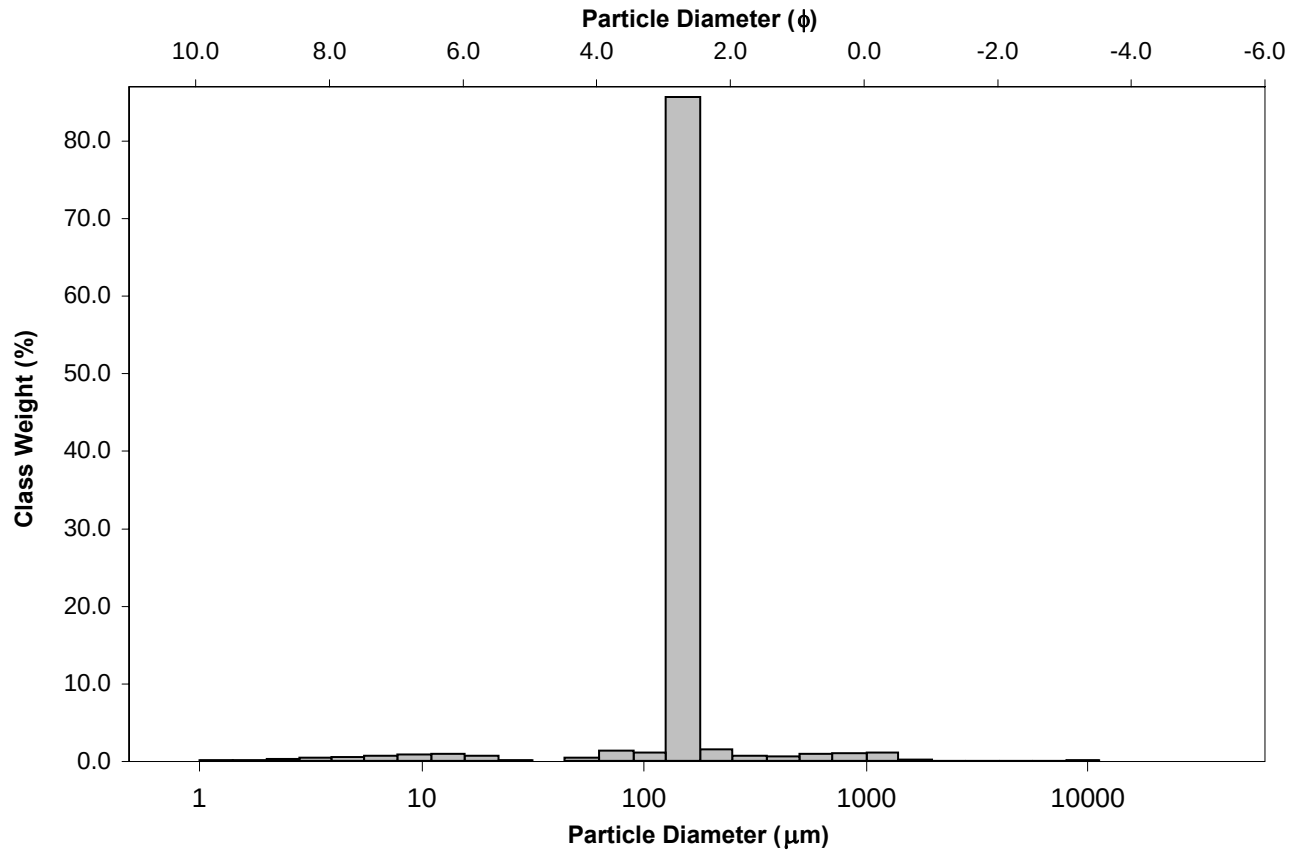
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	126.3	2.499
MEDIAN or D_{50}:	149.5	2.742
D_{90}:	176.9	2.985
(D_{90} / D_{10}):	1.401	1.194
(D_{90} - D_{10}):	50.60	0.486
(D_{75} / D_{25}):	1.234	1.117
(D_{75} - D_{25}):	31.53	0.304

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.2%	COARSE SAND:	1.7%
SAND:	94.6%	MEDIUM SAND:	1.3%
MUD:	5.2%	FINE SAND:	88.0%
		V FINE SAND:	2.3%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.5%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.8%
MEDIUM GRAVEL:	0.1%	MEDIUM SILT:	1.6%
FINE GRAVEL:	0.0%	FINE SILT:	1.2%
V FINE GRAVEL:	0.0%	V FINE SILT:	0.7%
V COARSE SAND:	1.2%	CLAY:	0.4%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	185.7	137.5	2.862	149.5	2.742	Fine Sand
SORTING (σ):	377.9	2.203	1.140	1.331	0.413	Well Sorted
SKEWNESS (Sk):	19.97	-2.499	2.499	-0.222	0.222	Fine Skewed
KURTOSIS (K):	474.1	17.18	17.18	2.758	2.758	Very Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_52** ANALYST & DATE: MjGrey, 12/5/2012

SAMPLE TYPE: Unimodal, Moderately Well Sorted TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Medium Gravelly Fine Sand

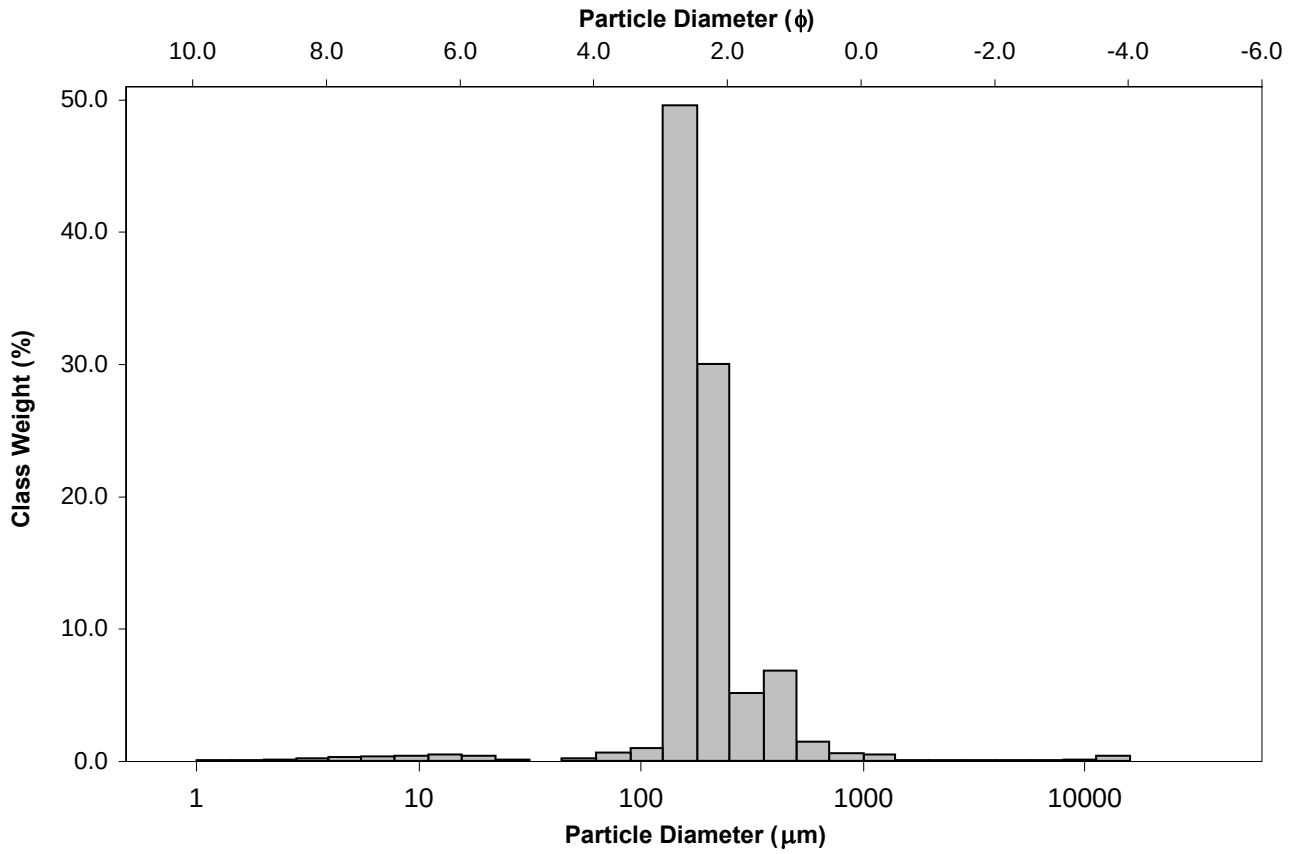
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	130.0	1.475
MEDIAN or D_{50}:	172.2	2.538
D_{90}:	359.6	2.944
(D_{90} / D_{10}):	2.767	1.995
(D_{90} - D_{10}):	229.6	1.468
(D_{75} / D_{25}):	1.548	1.292
(D_{75} - D_{25}):	79.22	0.631

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.9%	COARSE SAND:	2.1%
SAND:	96.2%	MEDIUM SAND:	11.9%
MUD:	2.9%	FINE SAND:	80.1%
		V FINE SAND:	1.6%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.2%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.5%
MEDIUM GRAVEL:	0.6%	MEDIUM SILT:	0.9%
FINE GRAVEL:	0.2%	FINE SILT:	0.7%
V FINE GRAVEL:	0.1%	V FINE SILT:	0.4%
V COARSE SAND:	0.5%	CLAY:	0.2%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	292.0	181.5	2.462	179.6	2.477	Fine Sand
SORTING (σ):	975.1	2.132	1.092	1.418	0.504	Moderately Well Sorted
SKEWNESS (Sk):	12.20	-0.930	0.930	0.363	-0.363	Very Coarse Skewed
KURTOSIS (K):	158.5	19.11	19.11	1.225	1.225	Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_53**

ANALYST & DATE: MjGrey, 12/5/2012

SAMPLE TYPE: Trimodal, Very Poorly Sorted

TEXTURAL GROUP: Sandy Gravel

SEDIMENT NAME: Sandy Coarse Gravel

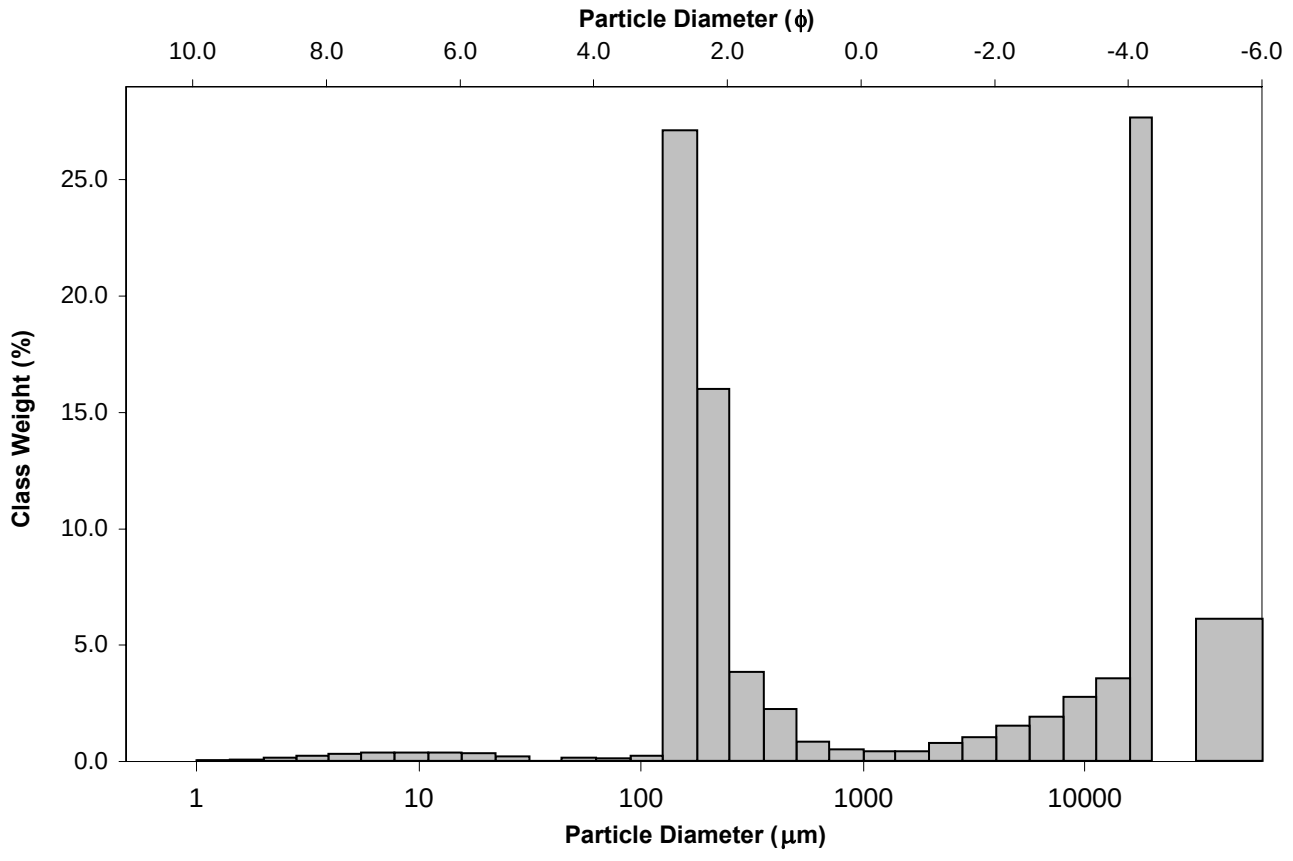
	μm	ϕ
MODE 1:	18000.0	-4.161
MODE 2:	152.5	2.737
MODE 3:	47250.0	-5.477
D_{10}:	136.1	-5.188
MEDIAN or D_{50}:	289.1	1.790
D_{90}:	36455.0	2.877
(D_{90} / D_{10}):	267.9	-0.555
(D_{90} - D_{10}):	36318.9	8.065
(D_{75} / D_{25}):	105.2	-0.636
(D_{75} - D_{25}):	17064.0	6.717

GRAIN SIZE DISTRIBUTION

GRAVEL:	43.1%	COARSE SAND:	1.4%
SAND:	54.2%	MEDIUM SAND:	6.3%
MUD:	2.7%	FINE SAND:	45.2%
		V FINE SAND:	0.4%
V COARSE GRAVEL:	12.4%	V COARSE SILT:	0.2%
COARSE GRAVEL:	18.7%	COARSE SILT:	0.6%
MEDIUM GRAVEL:	6.6%	MEDIUM SILT:	0.7%
FINE GRAVEL:	3.5%	FINE SILT:	0.7%
V FINE GRAVEL:	1.8%	V FINE SILT:	0.4%
V COARSE SAND:	0.9%	CLAY:	0.2%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	10479.9	1272.4	-0.348	933.7	0.099	Coarse Sand
SORTING (σ):	15617.0	11.65	3.542	8.305	3.054	Very Poorly Sorted
SKEWNESS (Sk):	1.510	0.139	-0.139	0.723	-0.723	Very Coarse Skewed
KURTOSIS (K):	4.012	1.675	1.675	0.522	0.522	Very Platykurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_54** ANALYST & DATE: MjGrey, 12/5/2012

SAMPLE TYPE: Unimodal, Well Sorted TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

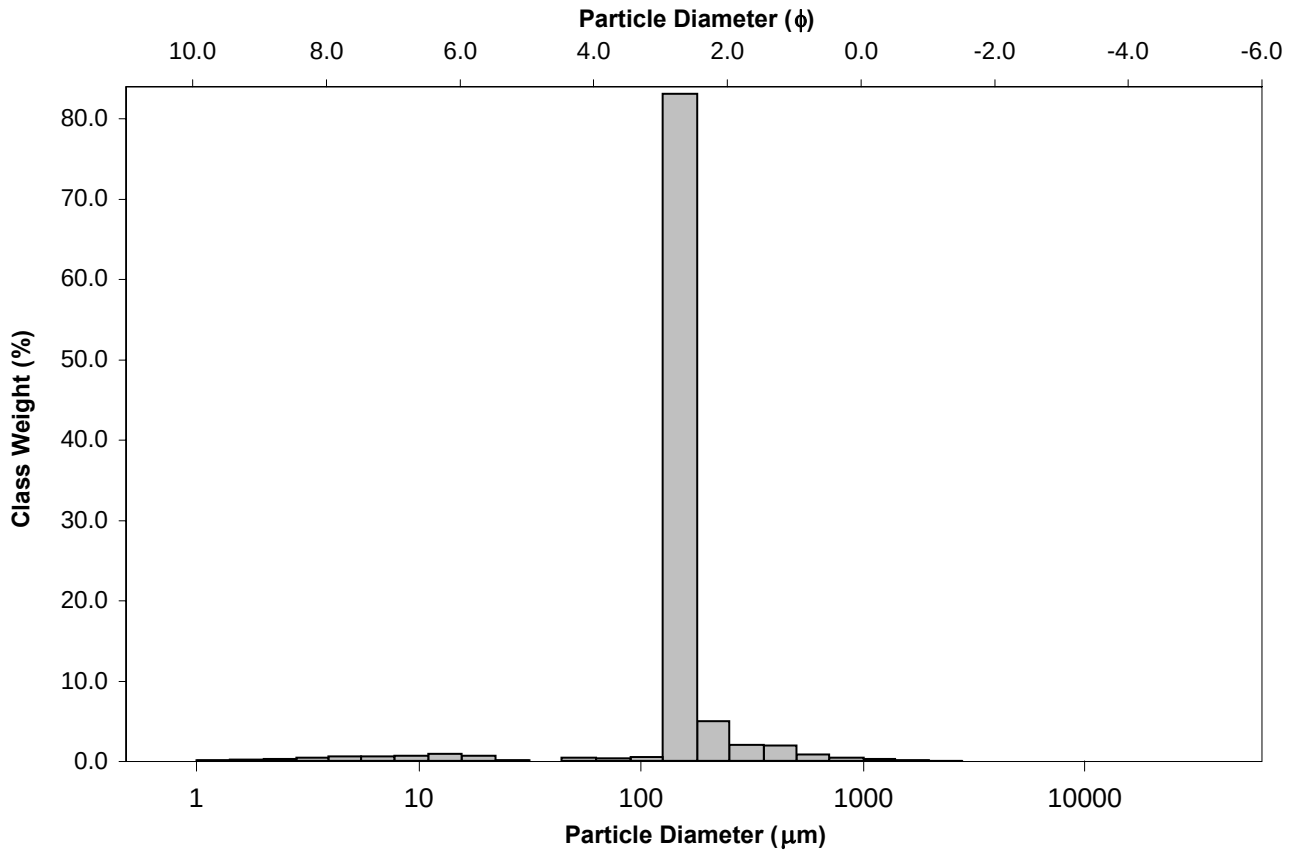
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	127.2	2.475
MEDIAN or D_{50}:	151.3	2.725
D_{90}:	179.9	2.975
(D_{90} / D_{10}):	1.414	1.202
(D_{90} - D_{10}):	52.67	0.500
(D_{75} / D_{25}):	1.242	1.122
(D_{75} - D_{25}):	32.82	0.312

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.0%	COARSE SAND:	1.2%
SAND:	94.9%	MEDIUM SAND:	3.8%
MUD:	5.1%	FINE SAND:	88.7%
		V FINE SAND:	0.8%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.5%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.8%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	1.5%
FINE GRAVEL:	0.0%	FINE SILT:	1.2%
V FINE GRAVEL:	0.0%	V FINE SILT:	0.7%
V COARSE SAND:	0.4%	CLAY:	0.4%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	166.6	138.6	2.851	151.3	2.725	Fine Sand
SORTING (σ):	111.7	2.109	1.076	1.357	0.440	Well Sorted
SKEWNESS (Sk):	7.537	-3.507	3.507	-0.132	0.132	Fine Skewed
KURTOSIS (K):	90.45	19.62	19.62	2.891	2.891	Very Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_55**

ANALYST & DATE: MjGrey, 12/5/2012

SAMPLE TYPE: Unimodal, Very Well Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Fine Gravelly Fine Sand

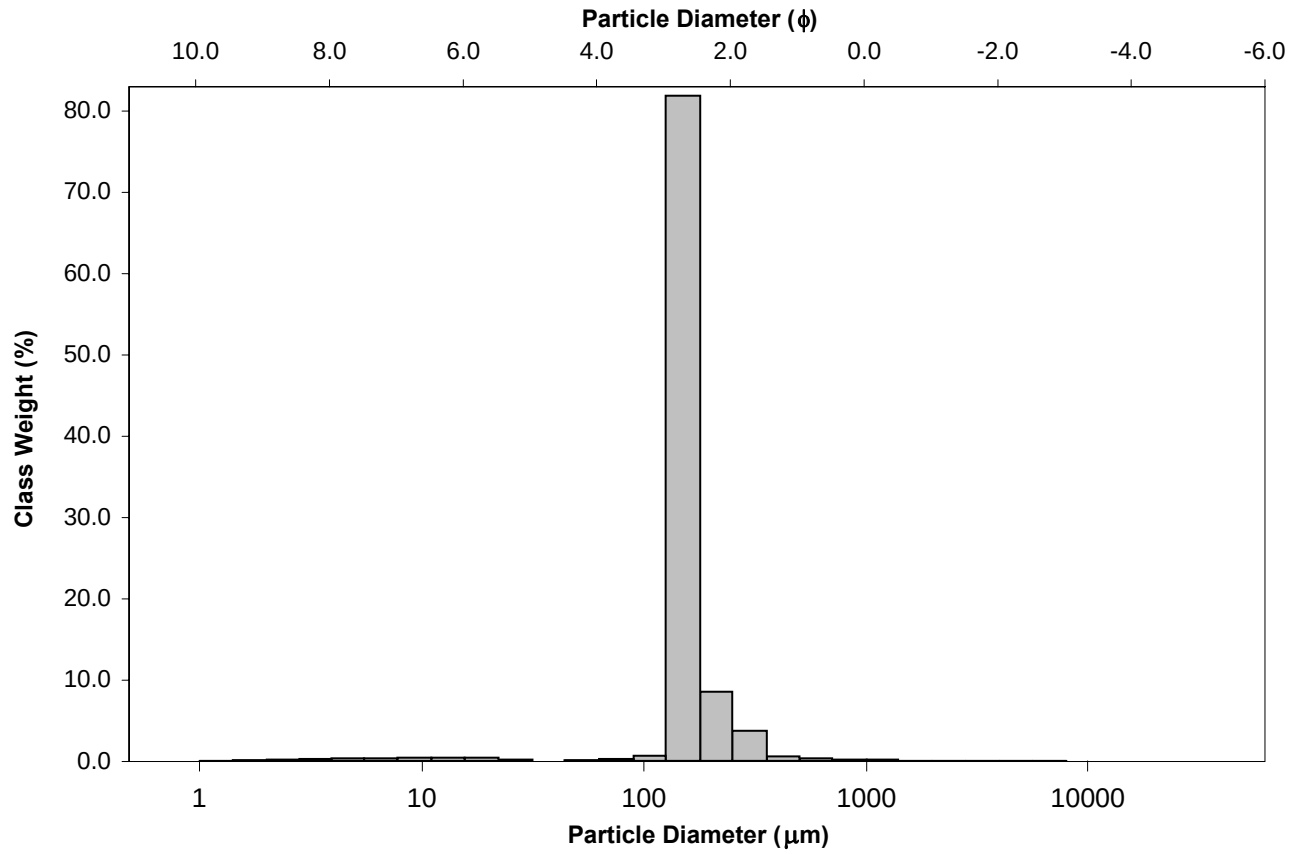
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	128.4	2.295
MEDIAN or D_{50}:	153.0	2.708
D_{90}:	203.7	2.961
(D_{90} / D_{10}):	1.586	1.290
(D_{90} - D_{10}):	75.28	0.665
(D_{75} / D_{25}):	1.245	1.124
(D_{75} - D_{25}):	33.58	0.316

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.1%	COARSE SAND:	0.6%
SAND:	97.0%	MEDIUM SAND:	4.2%
MUD:	2.9%	FINE SAND:	91.1%
		V FINE SAND:	0.9%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.1%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.6%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	0.8%
FINE GRAVEL:	0.1%	FINE SILT:	0.7%
V FINE GRAVEL:	0.1%	V FINE SILT:	0.4%
V COARSE SAND:	0.2%	CLAY:	0.2%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	171.7	148.0	2.756	153.0	2.708	Fine Sand
SORTING (σ):	195.5	1.807	0.854	1.197	0.260	Very Well Sorted
SKEWNESS (Sk):	24.49	-4.058	4.058	0.218	-0.218	Coarse Skewed
KURTOSIS (K):	744.7	31.50	31.50	1.306	1.306	Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_56**

ANALYST & DATE: MjGrey, 12/5/2012

SAMPLE TYPE: Unimodal, Poorly Sorted

TEXTURAL GROUP: Gravelly Sand

SEDIMENT NAME: Fine Gravelly Fine Sand

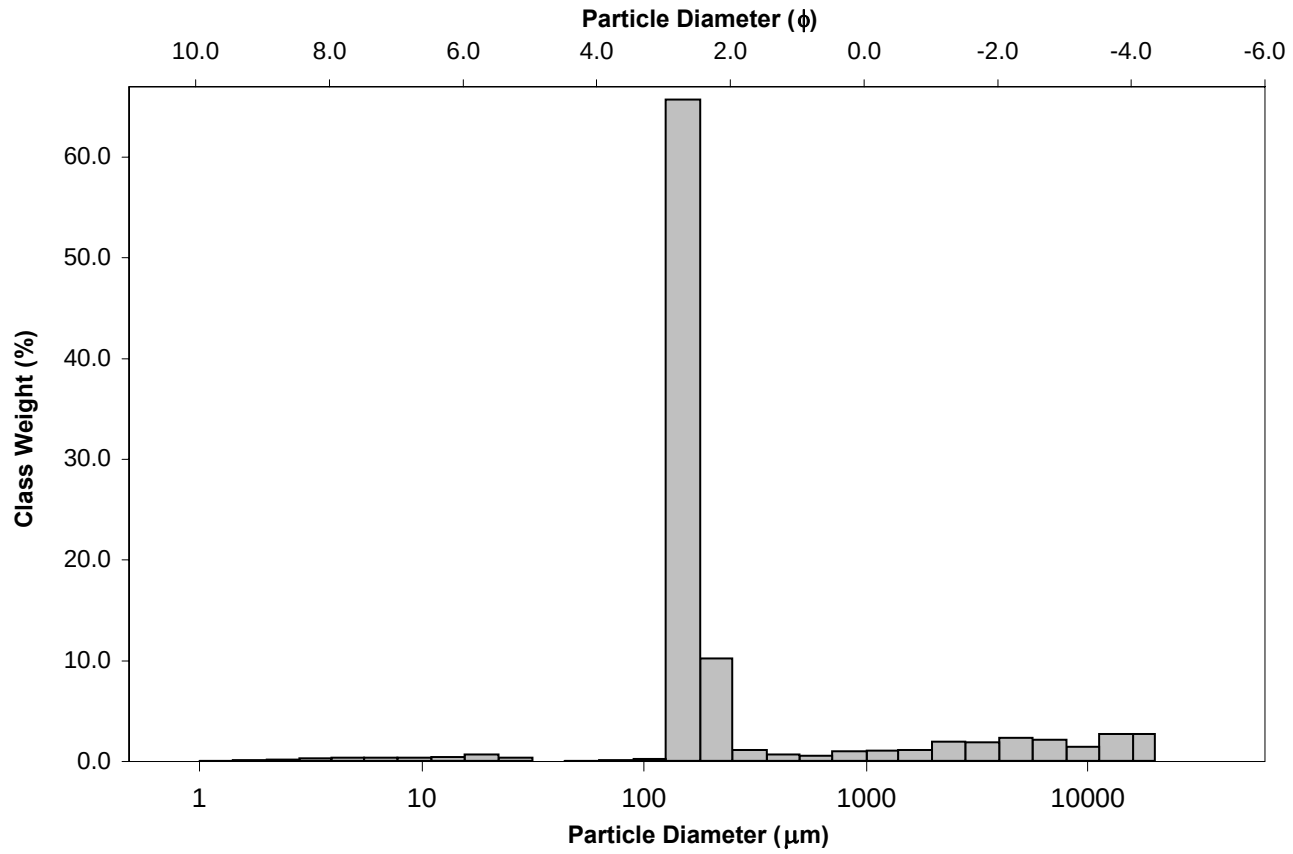
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	129.6	-2.049
MEDIAN or D_{50}:	160.6	2.639
D_{90}:	4138.6	2.948
(D_{90} / D_{10}):	31.94	-1.439
(D_{90} - D_{10}):	4009.0	4.997
(D_{75} / D_{25}):	1.456	1.237
(D_{75} - D_{25}):	64.03	0.542

GRAIN SIZE DISTRIBUTION

GRAVEL:	14.0%	COARSE SAND:	1.4%
SAND:	83.1%	MEDIUM SAND:	1.7%
MUD:	3.0%	FINE SAND:	77.5%
		V FINE SAND:	0.3%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.0%
COARSE GRAVEL:	1.7%	COARSE SILT:	1.0%
MEDIUM GRAVEL:	4.1%	MEDIUM SILT:	0.8%
FINE GRAVEL:	4.4%	FINE SILT:	0.7%
V FINE GRAVEL:	3.7%	V FINE SILT:	0.4%
V COARSE SAND:	2.1%	CLAY:	0.1%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	1351.1	263.4	1.925	279.5	1.839	Medium Sand
SORTING (σ):	3470.4	4.387	2.133	3.213	1.684	Poorly Sorted
SKEWNESS (Sk):	3.381	1.246	-1.246	0.855	-0.855	Very Coarse Skewed
KURTOSIS (K):	14.04	5.211	5.211	4.755	4.755	Extremely Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_57** ANALYST & DATE: MjGrey, 12/5/2012

SAMPLE TYPE: Unimodal, Very Well Sorted TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

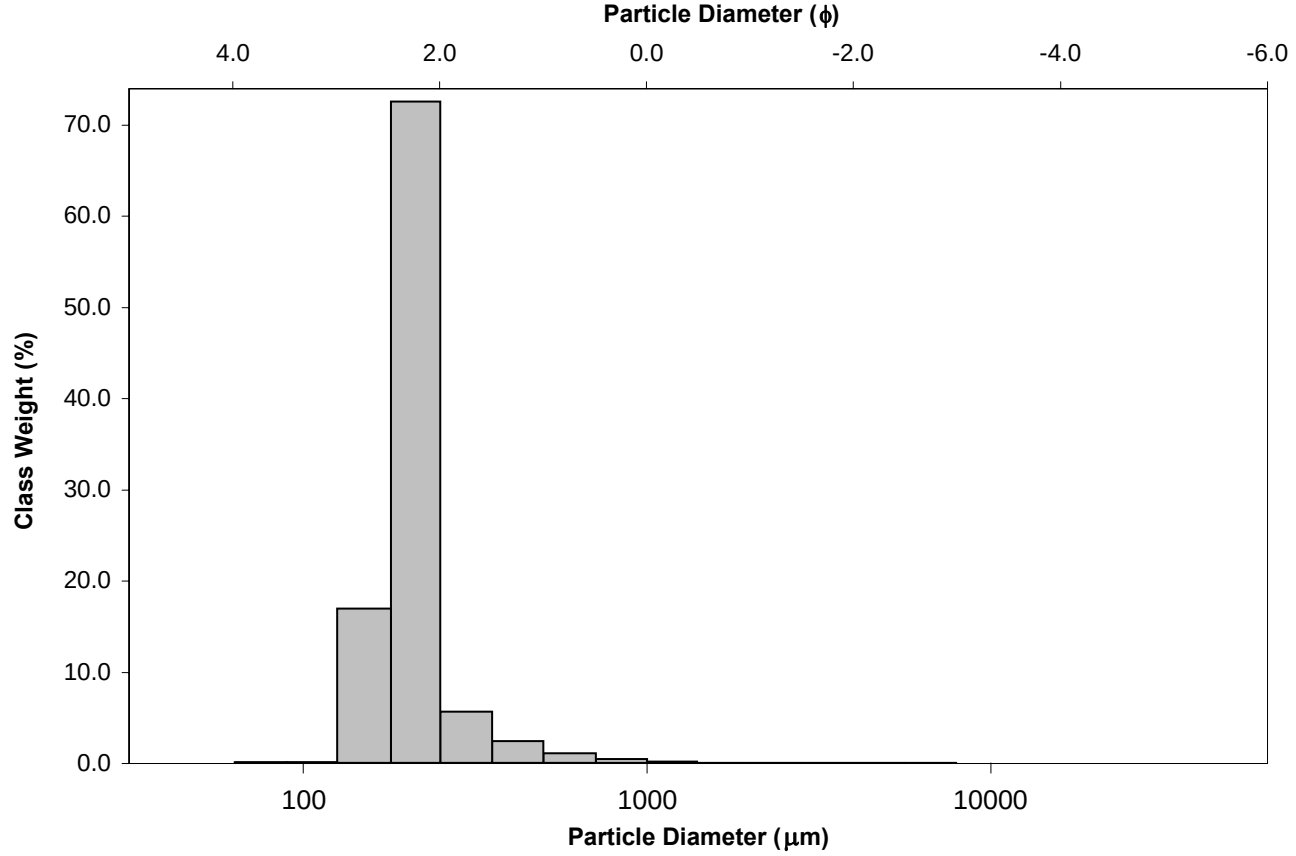
	μm	ϕ
MODE 1:	215.0	2.237
MODE 2:		
MODE 3:		
D_{10}:	148.4	1.987
MEDIAN or D_{50}:	207.5	2.269
D_{90}:	252.2	2.753
(D_{90} / D_{10}):	1.700	1.385
(D_{90} - D_{10}):	103.8	0.765
(D_{75} / D_{25}):	1.264	1.161
(D_{75} - D_{25}):	48.66	0.338

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.1%	COARSE SAND:	1.5%
SAND:	98.6%	MEDIUM SAND:	8.3%
MUD:	1.3%	FINE SAND:	88.4%
		V FINE SAND:	0.2%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.2%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.2%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	0.2%
FINE GRAVEL:	0.0%	FINE SILT:	0.2%
V FINE GRAVEL:	0.1%	V FINE SILT:	0.2%
V COARSE SAND:	0.2%	CLAY:	0.2%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	226.0	202.9	2.301	203.6	2.296	Fine Sand
SORTING (σ):	176.1	1.588	0.668	1.265	0.339	Very Well Sorted
SKEWNESS (Sk):	20.99	-3.529	3.529	-0.042	0.042	Symmetrical
KURTOSIS (K):	632.9	34.41	34.41	1.632	1.632	Very Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_61** ANALYST & DATE: Mj.Grey, 11/23/2012

SAMPLE TYPE: Unimodal, Very Well Sorted TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

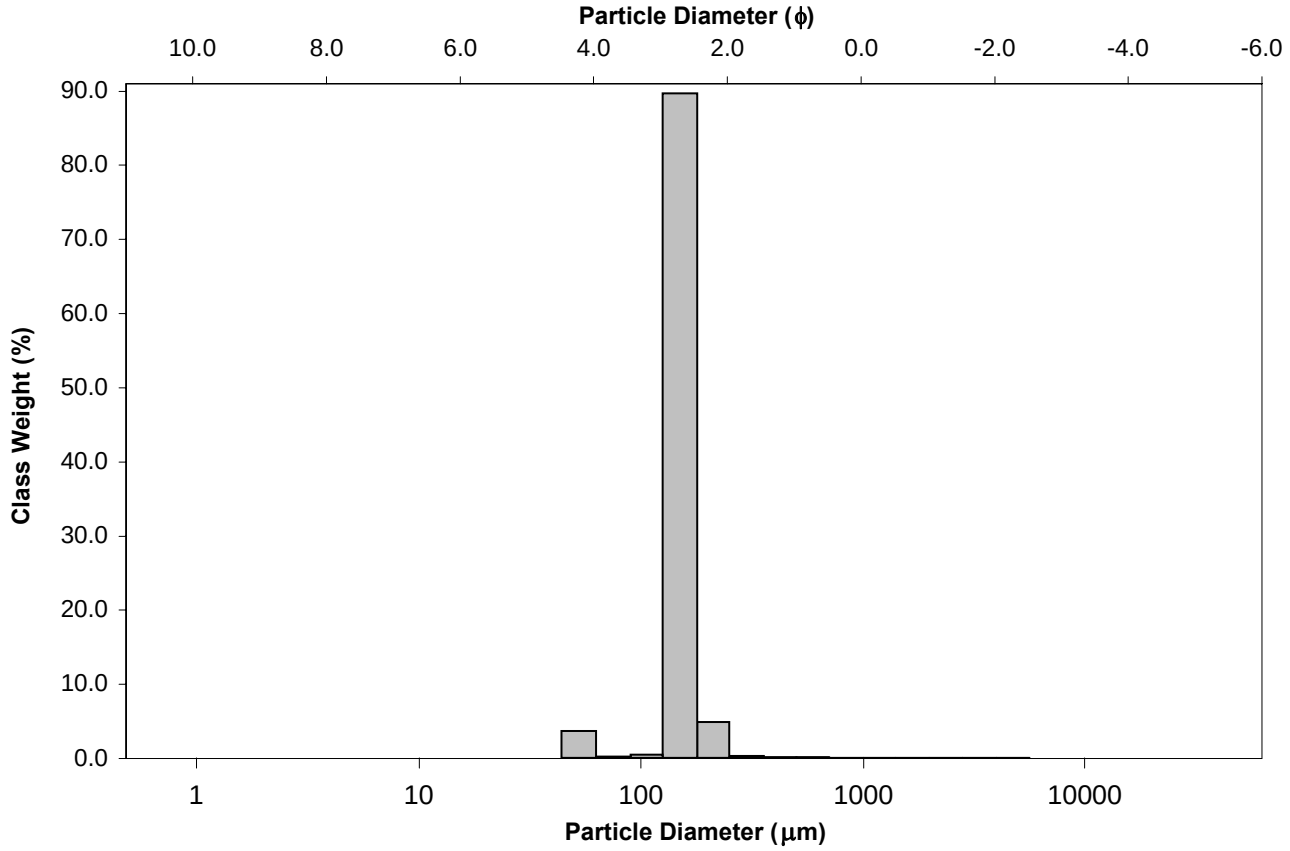
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	127.9	2.502
MEDIAN or D_{50}:	150.3	2.735
D_{90}:	176.5	2.967
(D_{90} / D_{10}):	1.380	1.186
(D_{90} - D_{10}):	48.58	0.464
(D_{75} / D_{25}):	1.223	1.112
(D_{75} - D_{25}):	30.28	0.290

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.1%	COARSE SAND:	0.2%
SAND:	96.4%	MEDIUM SAND:	0.4%
MUD:	3.6%	FINE SAND:	95.1%
		V FINE SAND:	0.7%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	3.6%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.0%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	0.0%
FINE GRAVEL:	0.0%	FINE SILT:	0.0%
V FINE GRAVEL:	0.0%	V FINE SILT:	0.0%
V COARSE SAND:	0.1%	CLAY:	0.0%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	155.9	147.5	2.761	150.3	2.735	Fine Sand
SORTING (σ):	101.3	1.283	0.359	1.133	0.180	Very Well Sorted
SKEWNESS (Sk):	31.94	-0.188	0.188	0.011	-0.011	Symmetrical
KURTOSIS (K):	1258.2	34.92	34.92	0.755	0.755	Platykurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_62** ANALYST & DATE: Mj.Grey, 11/26/2012

SAMPLE TYPE: Unimodal, Very Well Sorted TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

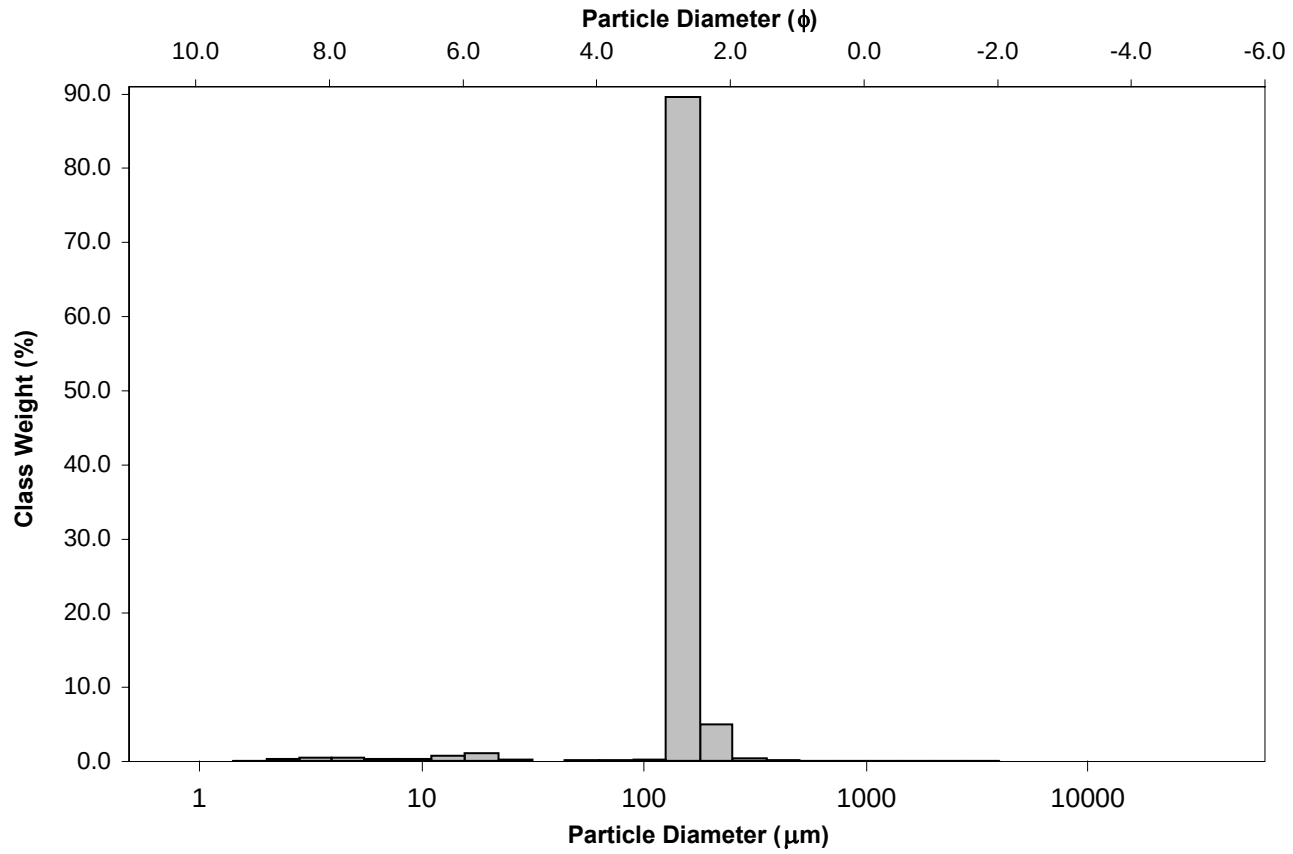
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	128.0	2.501
MEDIAN or D_{50}:	150.3	2.734
D_{90}:	176.6	2.966
(D_{90} / D_{10}):	1.380	1.186
(D_{90} - D_{10}):	48.59	0.464
(D_{75} / D_{25}):	1.223	1.112
(D_{75} - D_{25}):	30.29	0.290

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.1%	COARSE SAND:	0.1%
SAND:	96.2%	MEDIUM SAND:	0.5%
MUD:	3.7%	FINE SAND:	95.2%
		V FINE SAND:	0.4%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.1%
COARSE GRAVEL:	0.0%	COARSE SILT:	1.1%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	1.0%
FINE GRAVEL:	0.0%	FINE SILT:	0.7%
V FINE GRAVEL:	0.1%	V FINE SILT:	0.7%
V COARSE SAND:	0.0%	CLAY:	0.0%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	154.2	138.4	2.853	150.3	2.734	Fine Sand
SORTING (σ):	93.40	1.769	0.823	1.134	0.182	Very Well Sorted
SKEWNESS (Sk):	25.56	-4.757	4.757	0.023	-0.023	Symmetrical
KURTOSIS (K):	818.4	29.80	29.80	0.773	0.773	Platykurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_64** ANALYST & DATE: Mj.Grey, 11/26/2012

SAMPLE TYPE: Unimodal, Very Well Sorted TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

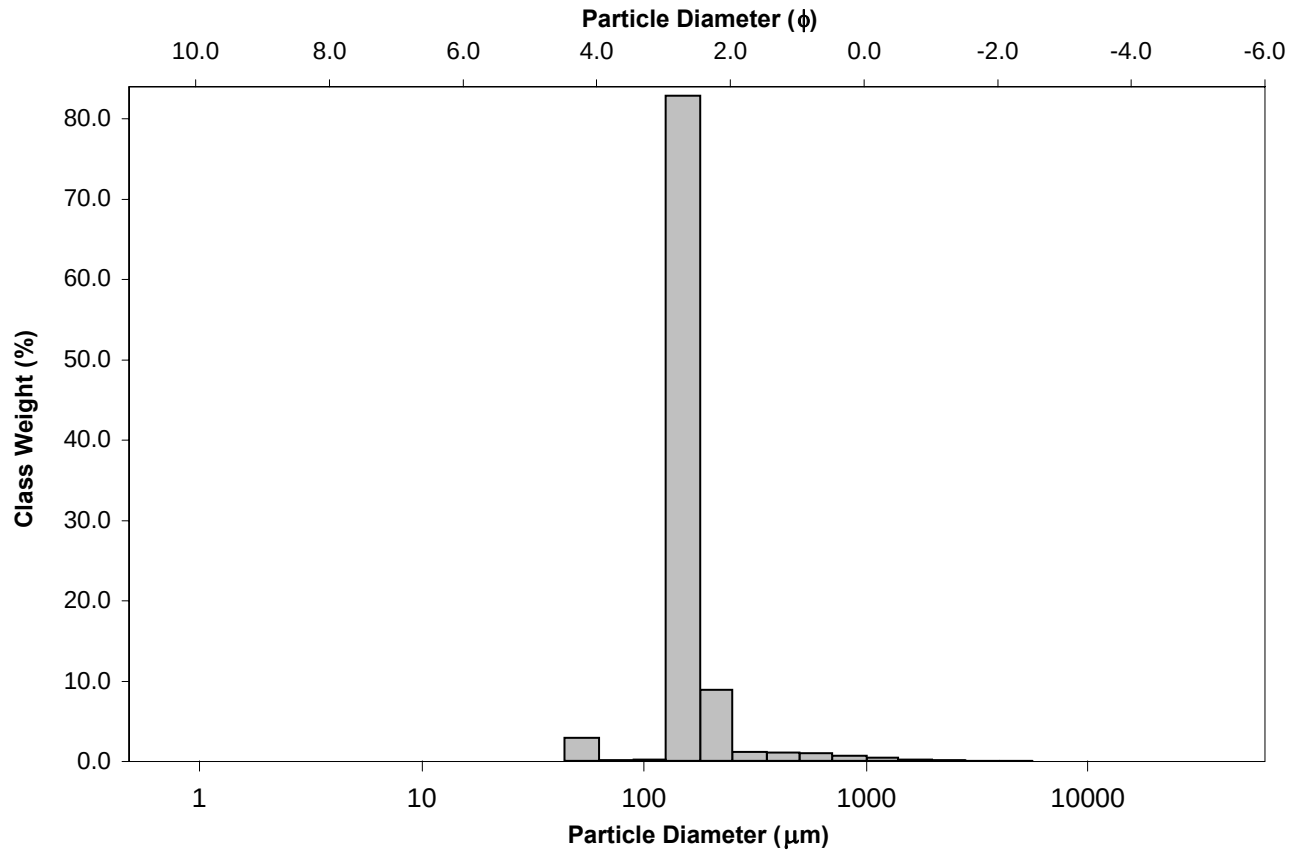
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	128.8	2.320
MEDIAN or D_{50}:	153.1	2.707
D_{90}:	200.3	2.957
(D_{90} / D_{10}):	1.555	1.275
(D_{90} - D_{10}):	71.49	0.637
(D_{75} / D_{25}):	1.242	1.122
(D_{75} - D_{25}):	33.21	0.312

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.3%	COARSE SAND:	1.6%
SAND:	96.9%	MEDIUM SAND:	2.1%
MUD:	2.8%	FINE SAND:	92.3%
		V FINE SAND:	0.3%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	2.8%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.0%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	0.0%
FINE GRAVEL:	0.0%	FINE SILT:	0.0%
V FINE GRAVEL:	0.2%	V FINE SILT:	0.0%
V COARSE SAND:	0.6%	CLAY:	0.0%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	182.5	159.2	2.651	153.1	2.707	Fine Sand
SORTING (σ):	196.8	1.459	0.545	1.191	0.252	Very Well Sorted
SKEWNESS (Sk):	12.28	2.765	-2.765	0.207	-0.207	Coarse Skewed
KURTOSIS (K):	209.1	22.20	22.20	1.260	1.260	Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_71** ANALYST & DATE: Mj.Grey, 11/26/2012

SAMPLE TYPE: Trimodal, Very Poorly Sorted TEXTURAL GROUP: Gravelly Muddy Sand

SEDIMENT NAME: Coarse Gravelly Medium Silty Fine Sand

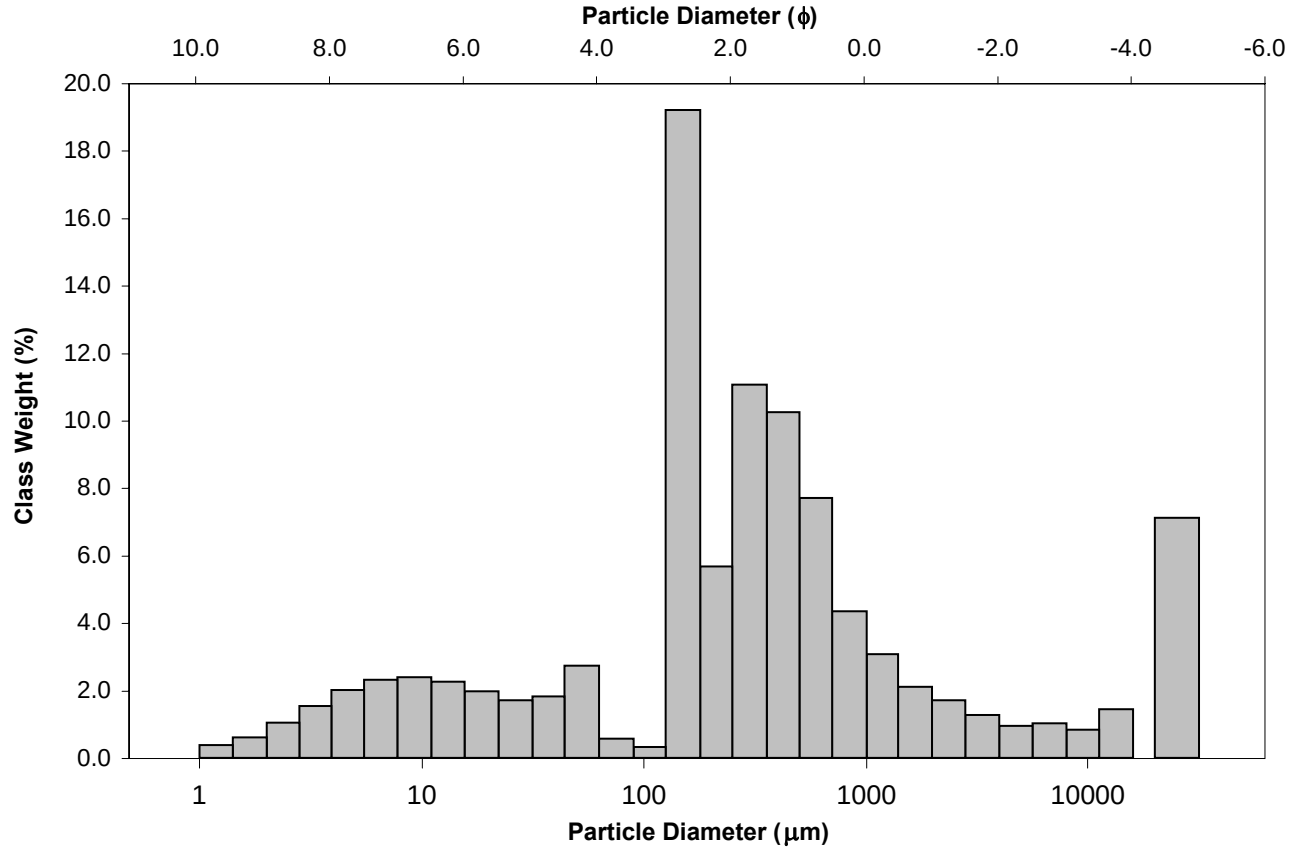
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:	302.5	1.747
MODE 3:	25750.0	-4.650
D_{10}:	10.20	-3.666
MEDIAN or D_{50}:	279.8	1.838
D_{90}:	12689.2	6.615
(D_{90} / D_{10}):	1244.0	-1.805
(D_{90} - D_{10}):	12679.0	10.28
(D_{75} / D_{25}):	5.460	6.295
(D_{75} - D_{25}):	592.8	2.449

GRAIN SIZE DISTRIBUTION

GRAVEL:	16.1%	COARSE SAND:	11.7%
SAND:	63.2%	MEDIUM SAND:	20.7%
MUD:	20.7%	FINE SAND:	24.8%
		V FINE SAND:	1.0%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	4.4%
COARSE GRAVEL:	9.1%	COARSE SILT:	3.6%
MEDIUM GRAVEL:	2.2%	MEDIUM SILT:	4.5%
FINE GRAVEL:	1.9%	FINE SILT:	4.2%
V FINE GRAVEL:	2.9%	V FINE SILT:	2.5%
V COARSE SAND:	5.0%	CLAY:	1.5%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	3072.6	284.7	1.812	255.8	1.967	Medium Sand
SORTING (σ):	7427.9	9.940	3.313	10.58	3.403	Very Poorly Sorted
SKEWNESS (Sk):	2.583	0.040	-0.040	-0.009	0.009	Symmetrical
KURTOSIS (K):	7.957	3.079	3.079	2.068	2.068	Very Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_75**

ANALYST & DATE: Mj.Grey, 11/26/2012

SAMPLE TYPE: Polymodal, Very Poorly Sorted

TEXTURAL GROUP: Muddy Sandy Gravel

SEDIMENT NAME: Medium Silty Sandy Fine Gravel

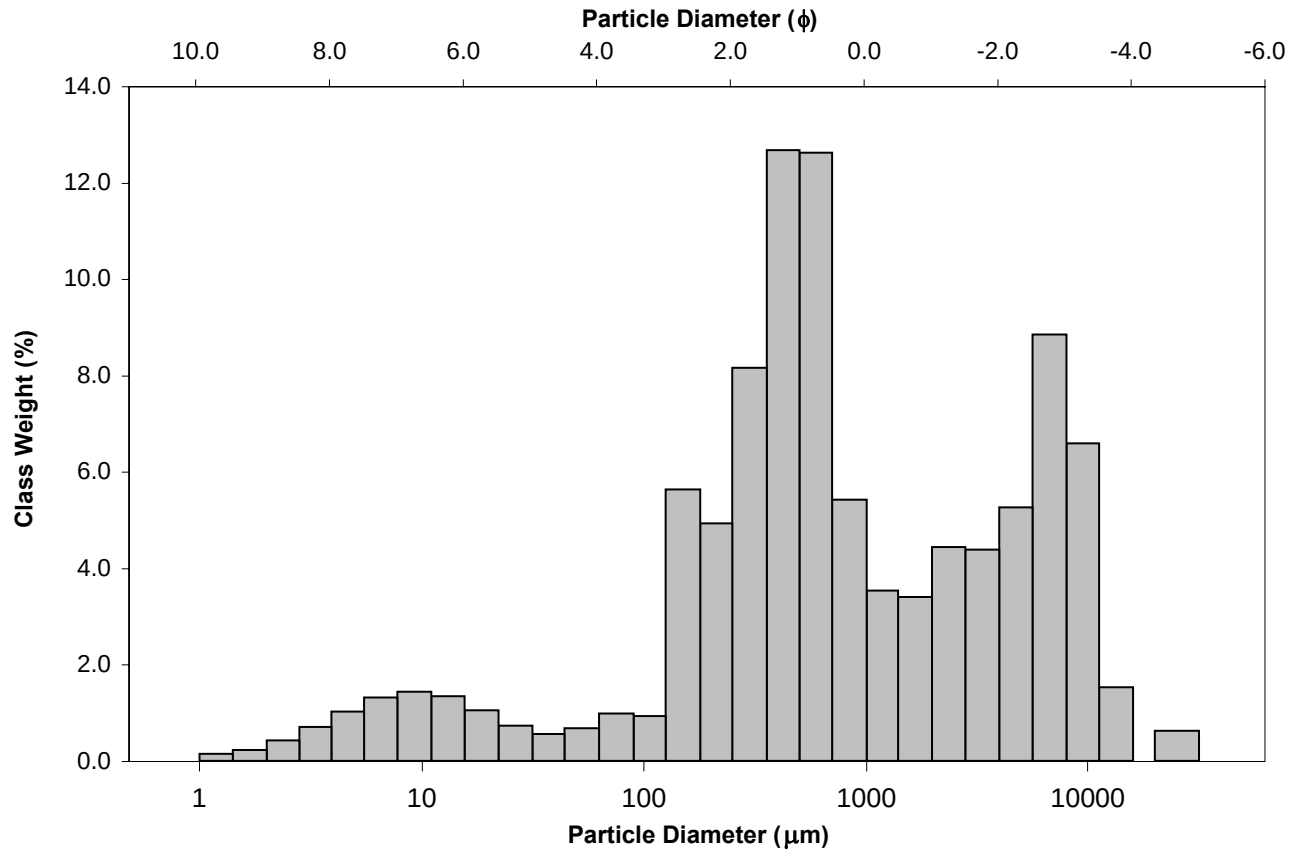
	μm	ϕ
MODE 1:	427.5	1.247
MODE 2:	6800.0	-2.743
MODE 3:	152.5	2.737
D_{10}:	66.89	-2.931
MEDIAN or D_{50}:	604.1	0.727
D_{90}:	7627.6	3.902
(D_{90} / D_{10}):	114.0	-1.331
(D_{90} - D_{10}):	7560.8	6.833
(D_{75} / D_{25}):	12.20	-1.036
(D_{75} - D_{25}):	3136.5	3.608

GRAIN SIZE DISTRIBUTION

GRAVEL:	31.8%	COARSE SAND:	18.1%
SAND:	58.4%	MEDIUM SAND:	20.8%
MUD:	9.8%	FINE SAND:	10.6%
		V FINE SAND:	1.9%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	1.2%
COARSE GRAVEL:	0.8%	COARSE SILT:	1.8%
MEDIUM GRAVEL:	8.0%	MEDIUM SILT:	2.8%
FINE GRAVEL:	14.2%	FINE SILT:	2.3%
V FINE GRAVEL:	8.8%	V FINE SILT:	1.1%
V COARSE SAND:	6.9%	CLAY:	0.6%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	2482.5	675.8	0.565	839.9	0.252	Coarse Sand
SORTING (σ):	3797.4	7.054	2.819	7.010	2.809	Very Poorly Sorted
SKEWNESS (Sk):	2.704	-0.731	0.731	0.041	-0.041	Symmetrical
KURTOSIS (K):	13.53	3.605	3.605	1.129	1.129	Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_76** ANALYST & DATE: Mj.Grey, 11/26/2012

SAMPLE TYPE: Trimodal, Very Poorly Sorted TEXTURAL GROUP: Muddy Sandy Gravel

SEDIMENT NAME: Medium Silty Sandy Very Coarse Gravel

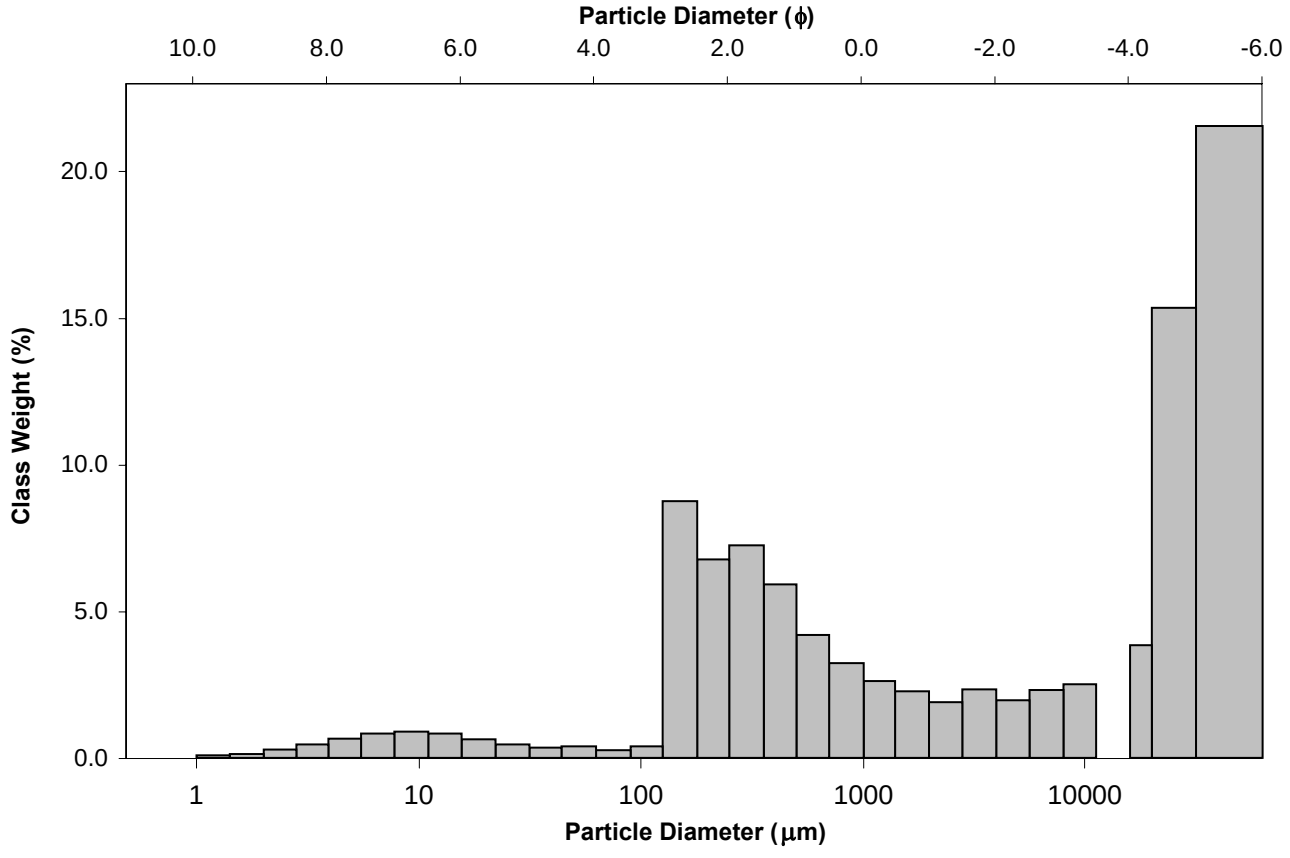
	μm	ϕ
MODE 1:	47250.0	-5.477
MODE 2:	152.5	2.737
MODE 3:	302.5	1.747
D_{10}:	155.9	-5.688
MEDIAN or D_{50}:	20385.9	-4.350
D_{90}:	51545.1	2.681
(D_{90} / D_{10}):	330.5	-0.471
(D_{90} - D_{10}):	51389.2	8.369
(D_{75} / D_{25}):	99.39	-0.263
(D_{75} - D_{25}):	37763.0	6.635

GRAIN SIZE DISTRIBUTION

GRAVEL:	61.5%	COARSE SAND:	6.0%
SAND:	33.5%	MEDIUM SAND:	10.6%
MUD:	5.0%	FINE SAND:	12.5%
		V FINE SAND:	0.5%
V COARSE GRAVEL:	33.8%	V COARSE SILT:	0.6%
COARSE GRAVEL:	18.9%	COARSE SILT:	0.9%
MEDIUM GRAVEL:	1.9%	MEDIUM SILT:	1.4%
FINE GRAVEL:	3.4%	FINE SILT:	1.2%
V FINE GRAVEL:	3.4%	V FINE SILT:	0.6%
V COARSE SAND:	3.9%	CLAY:	0.3%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	21486.6	4233.0	-2.082	5889.8	-2.558	Fine Gravel
SORTING (σ):	20649.2	13.24	3.727	10.65	3.413	Very Poorly Sorted
SKEWNESS (Sk):	0.219	-0.771	0.771	-0.698	0.698	Very Fine Skewed
KURTOSIS (K):	1.292	2.516	2.516	0.606	0.606	Very Platykurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_78**

ANALYST & DATE: MjGrey, 12/5/2012

SAMPLE TYPE: Trimodal, Poorly Sorted

TEXTURAL GROUP: Gravelly Sand

SEDIMENT NAME: Coarse Gravelly Medium Sand

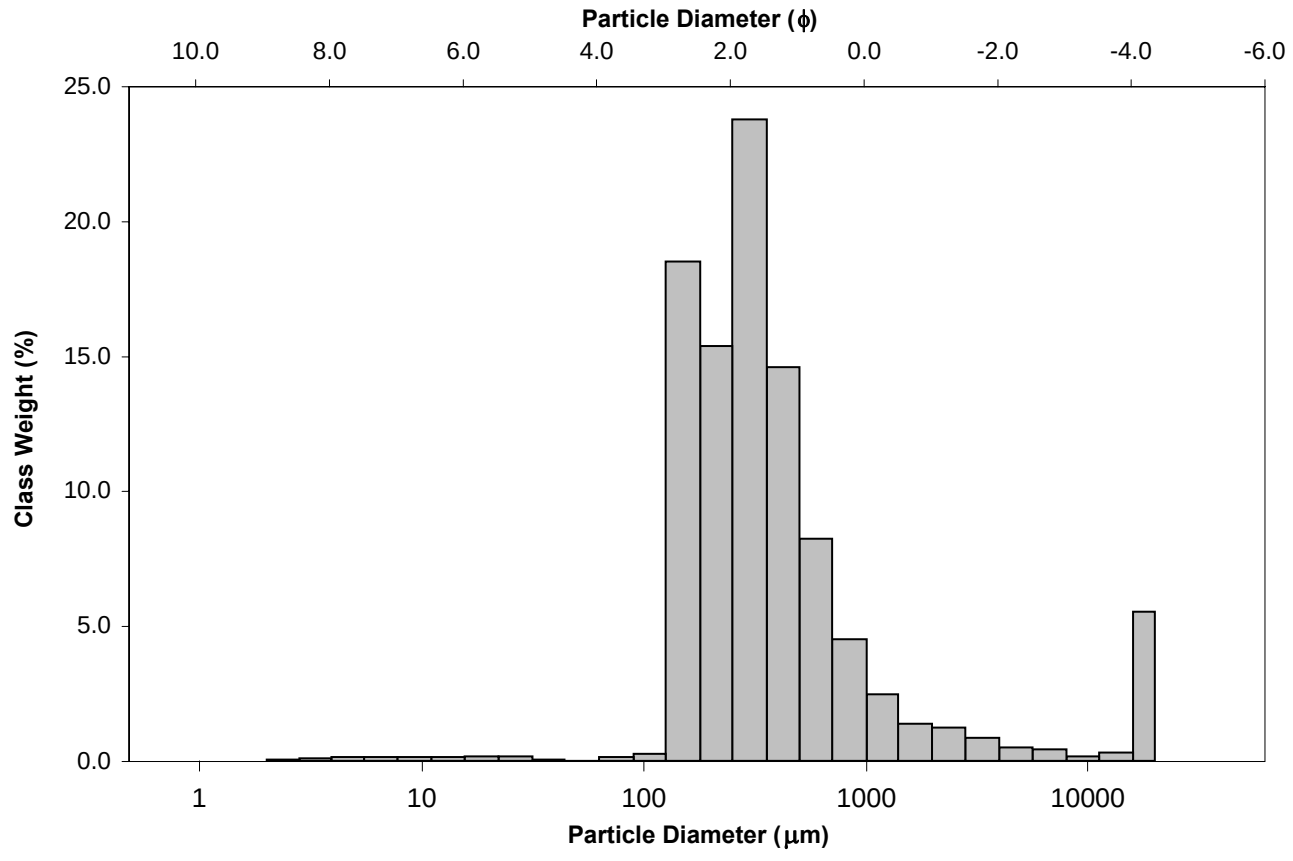
	μm	ϕ
MODE 1:	302.5	1.747
MODE 2:	152.5	2.737
MODE 3:	18000.0	-4.161
D_{10}:	145.6	-0.229
MEDIAN or D_{50}:	303.3	1.721
D_{90}:	1171.7	2.779
(D_{90} / D_{10}):	8.045	-12.156
(D_{90} - D_{10}):	1026.1	3.008
(D_{75} / D_{25}):	2.529	2.305
(D_{75} - D_{25}):	296.9	1.339

GRAIN SIZE DISTRIBUTION

GRAVEL:	7.2%	COARSE SAND:	13.1%
SAND:	91.5%	MEDIUM SAND:	39.3%
MUD:	1.2%	FINE SAND:	34.8%
		V FINE SAND:	0.4%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.1%
COARSE GRAVEL:	3.6%	COARSE SILT:	0.4%
MEDIUM GRAVEL:	0.5%	MEDIUM SILT:	0.3%
FINE GRAVEL:	1.0%	FINE SILT:	0.3%
V FINE GRAVEL:	2.1%	V FINE SILT:	0.2%
V COARSE SAND:	3.9%	CLAY:	0.0%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	1177.7	373.4	1.421	325.9	1.618	Medium Sand
SORTING (σ):	3447.5	3.101	1.633	2.444	1.289	Poorly Sorted
SKEWNESS (Sk):	4.423	1.347	-1.347	0.337	-0.337	Very Coarse Skewed
KURTOSIS (K):	21.30	7.780	7.780	1.540	1.540	Very Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_79** ANALYST & DATE: MjGrey, 12/5/2012

SAMPLE TYPE: Bimodal, Moderately Sorted TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

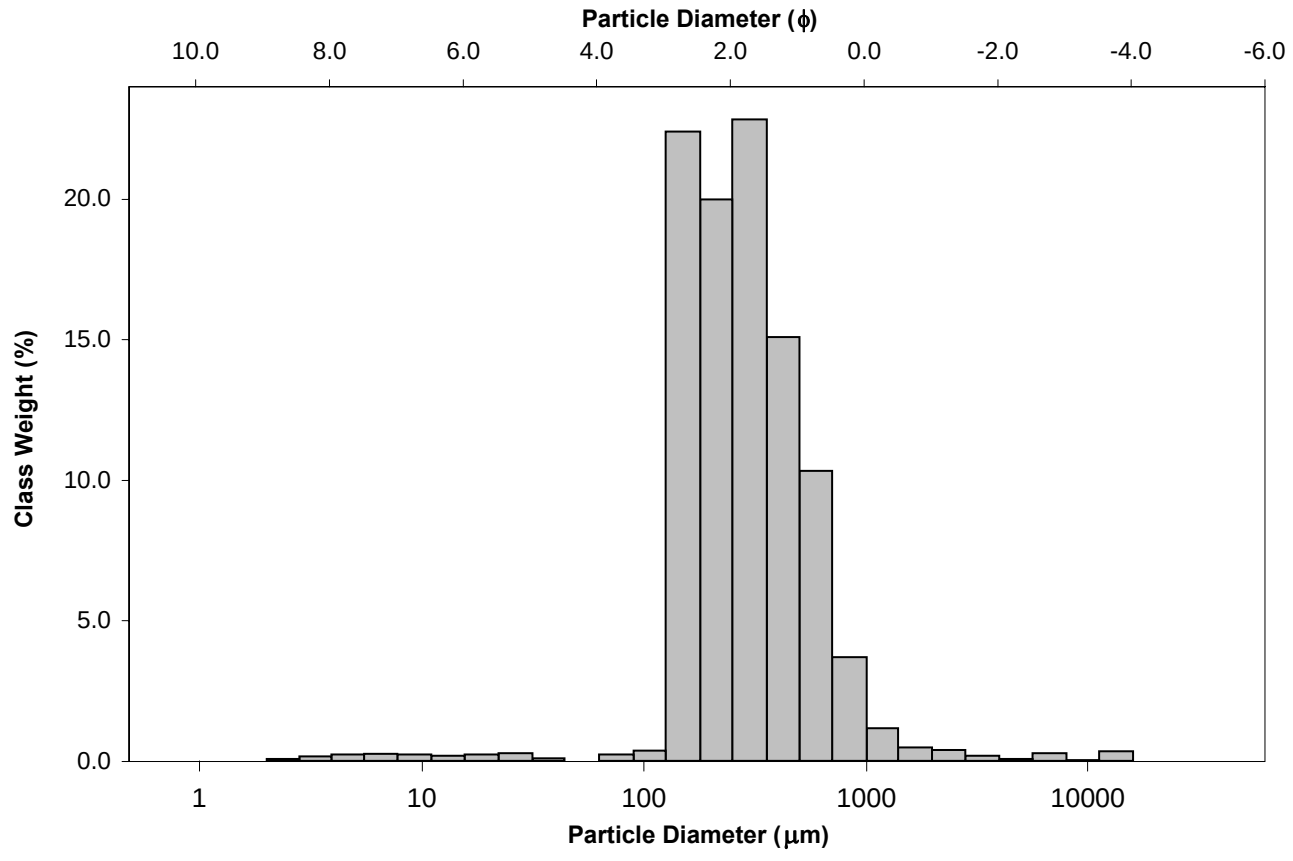
	μm	ϕ
MODE 1:	302.5	1.747
MODE 2:	152.5	2.737
MODE 3:		
D_{10}:	140.8	0.658
MEDIAN or D_{50}:	270.2	1.888
D_{90}:	633.7	2.829
(D_{90} / D_{10}):	4.502	4.299
(D_{90} - D_{10}):	493.0	2.171
(D_{75} / D_{25}):	2.348	1.975
(D_{75} - D_{25}):	239.3	1.232

GRAIN SIZE DISTRIBUTION

GRAVEL:	1.3%	COARSE SAND:	14.1%
SAND:	96.9%	MEDIUM SAND:	38.1%
MUD:	1.8%	FINE SAND:	42.6%
		V FINE SAND:	0.6%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.1%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.5%
MEDIUM GRAVEL:	0.4%	MEDIUM SILT:	0.4%
FINE GRAVEL:	0.4%	FINE SILT:	0.5%
V FINE GRAVEL:	0.6%	V FINE SILT:	0.2%
V COARSE SAND:	1.6%	CLAY:	0.0%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	415.8	278.3	1.845	278.6	1.844	Medium Sand
SORTING (σ):	912.9	2.179	1.124	1.790	0.840	Moderately Sorted
SKEWNESS (Sk):	11.69	-0.553	0.553	0.143	-0.143	Coarse Skewed
KURTOSIS (K):	158.0	11.99	11.99	0.886	0.886	Platykurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_80**

ANALYST & DATE: corrine.abel, 12/6/2012

SAMPLE TYPE: Polymodal, Poorly Sorted

TEXTURAL GROUP: Gravelly Sand

SEDIMENT NAME: Very Fine Gravelly Fine Sand

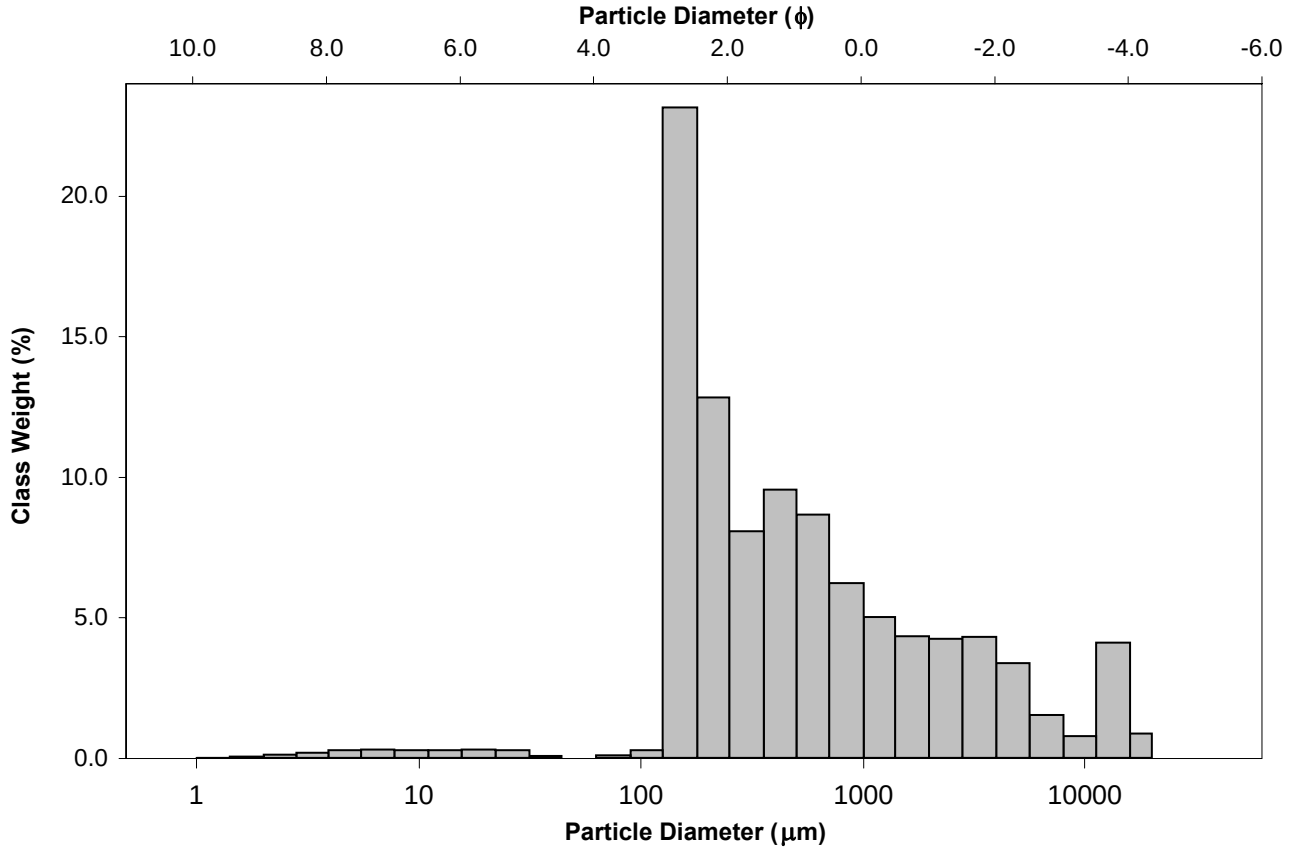
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:	427.5	1.247
MODE 3:	3400.0	-1.743
D_{10}:	139.8	-2.061
MEDIAN or D_{50}:	391.8	1.352
D_{90}:	4172.2	2.839
(D_{90} / D_{10}):	29.85	-1.377
(D_{90} - D_{10}):	4032.4	4.899
(D_{75} / D_{25}):	7.192	-7.589
(D_{75} - D_{25}):	1083.3	2.846

GRAIN SIZE DISTRIBUTION

GRAVEL:	19.0%	COARSE SAND:	14.9%
SAND:	78.9%	MEDIUM SAND:	17.7%
MUD:	2.1%	FINE SAND:	36.6%
		V FINE SAND:	0.4%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.1%
COARSE GRAVEL:	0.6%	COARSE SILT:	0.6%
MEDIUM GRAVEL:	5.0%	MEDIUM SILT:	0.5%
FINE GRAVEL:	4.8%	FINE SILT:	0.6%
V FINE GRAVEL:	8.6%	V FINE SILT:	0.3%
V COARSE SAND:	9.4%	CLAY:	0.1%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	1635.0	520.0	0.944	534.5	0.904	Coarse Sand
SORTING (σ):	3201.1	4.242	2.085	3.920	1.971	Poorly Sorted
SKEWNESS (Sk):	3.139	0.273	-0.273	0.413	-0.413	Very Coarse Skewed
KURTOSIS (K):	12.59	3.793	3.793	0.908	0.908	Mesokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_82**

ANALYST & DATE: corrine.abel, 12/6/2012

SAMPLE TYPE: Bimodal, Moderately Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

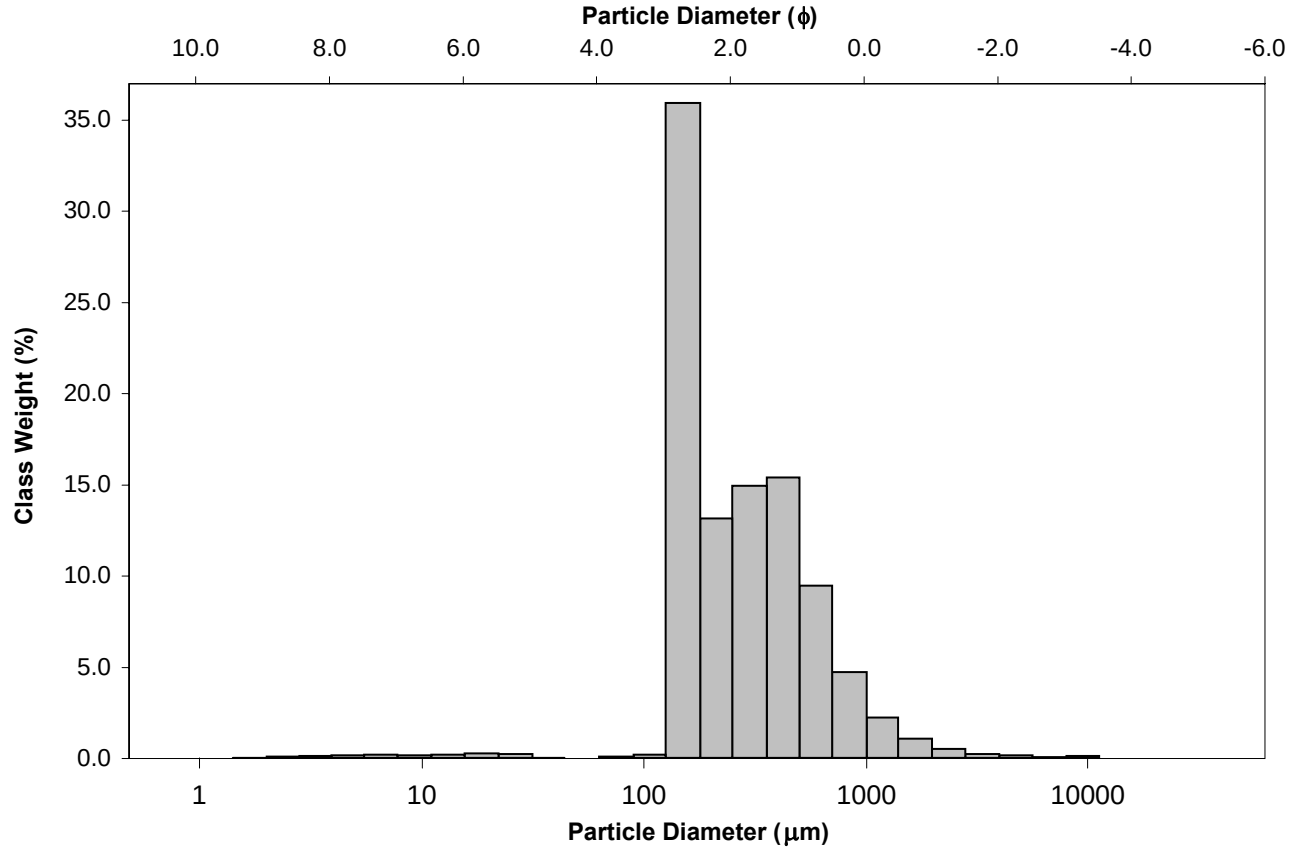
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:	427.5	1.247
MODE 3:		
D_{10}:	135.5	0.552
MEDIAN or D_{50}:	240.1	2.059
D_{90}:	681.9	2.883
(D_{90} / D_{10}):	5.032	5.220
(D_{90} - D_{10}):	546.4	2.331
(D_{75} / D_{25}):	2.745	2.198
(D_{75} - D_{25}):	273.6	1.457

GRAIN SIZE DISTRIBUTION

GRAVEL:	1.0%	COARSE SAND:	14.1%
SAND:	97.6%	MEDIUM SAND:	30.1%
MUD:	1.4%	FINE SAND:	49.8%
		V FINE SAND:	0.3%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.0%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.5%
MEDIUM GRAVEL:	0.1%	MEDIUM SILT:	0.4%
FINE GRAVEL:	0.2%	FINE SILT:	0.3%
V FINE GRAVEL:	0.7%	V FINE SILT:	0.2%
V COARSE SAND:	3.3%	CLAY:	0.0%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	377.6	266.9	1.906	266.1	1.910	Medium Sand
SORTING (σ):	523.5	2.178	1.123	1.889	0.918	Moderately Sorted
SKEWNESS (Sk):	9.756	-0.395	0.395	0.305	-0.305	Very Coarse Skewed
KURTOSIS (K):	144.6	8.594	8.594	0.809	0.809	Platykurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_84**

ANALYST & DATE: corrine.abel, 12/6/2012

SAMPLE TYPE: Unimodal, Well Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Fine Gravelly Fine Sand

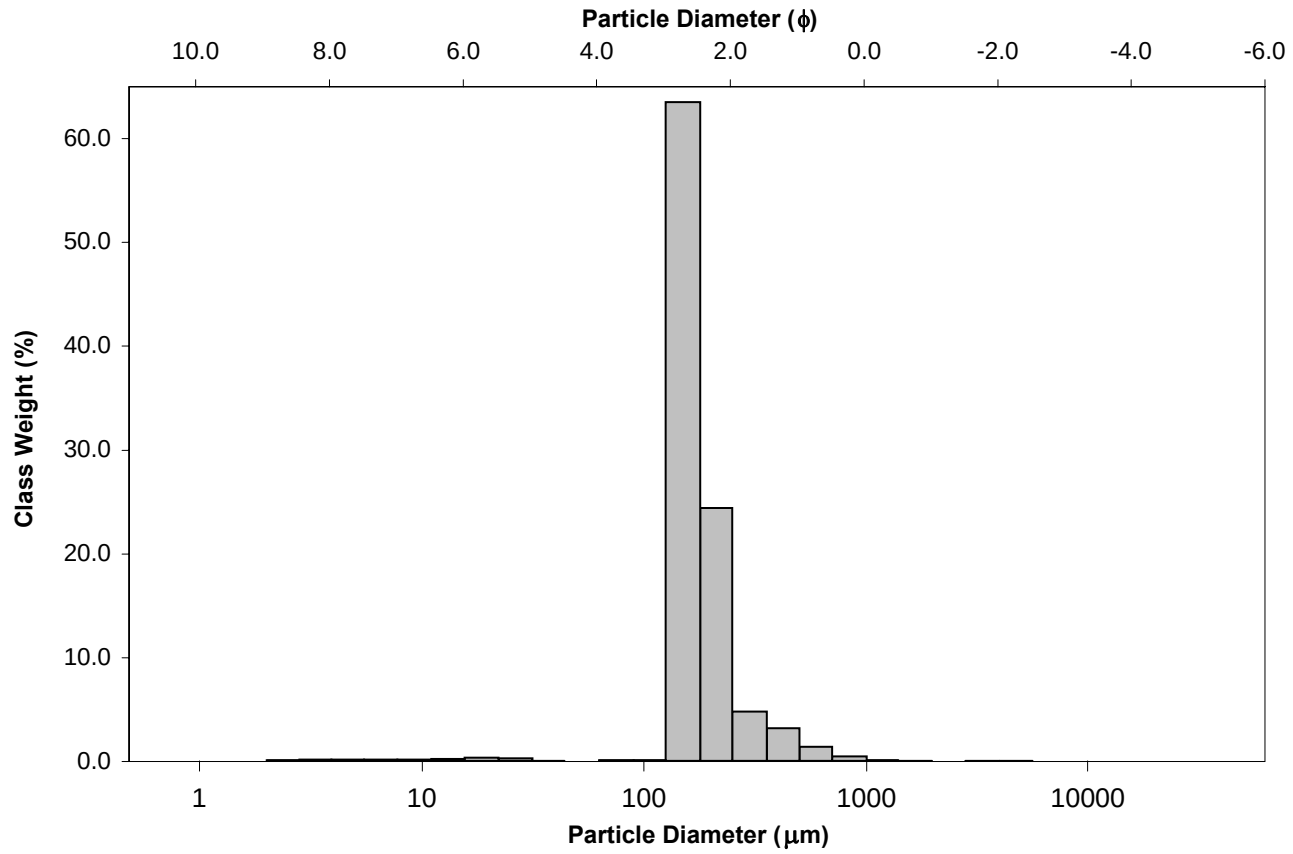
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	130.9	2.004
MEDIAN or D_{50}:	163.4	2.613
D_{90}:	249.4	2.934
(D_{90} / D_{10}):	1.905	1.464
(D_{90} - D_{10}):	118.5	0.930
(D_{75} / D_{25}):	1.412	1.215
(D_{75} - D_{25}):	58.57	0.497

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.0%	COARSE SAND:	1.8%
SAND:	98.4%	MEDIUM SAND:	7.8%
MUD:	1.5%	FINE SAND:	88.5%
		V FINE SAND:	0.2%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.0%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.6%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	0.4%
FINE GRAVEL:	0.0%	FINE SILT:	0.3%
V FINE GRAVEL:	0.0%	V FINE SILT:	0.2%
V COARSE SAND:	0.1%	CLAY:	0.0%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	192.7	171.4	2.545	171.6	2.543	Fine Sand
SORTING (σ):	130.7	1.613	0.690	1.333	0.415	Well Sorted
SKEWNESS (Sk):	15.42	-2.651	2.651	0.398	-0.398	Very Coarse Skewed
KURTOSIS (K):	449.0	27.69	27.69	1.227	1.227	Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_85** ANALYST & DATE: corrine.abel, 12/6/2012

SAMPLE TYPE: Unimodal, Well Sorted TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

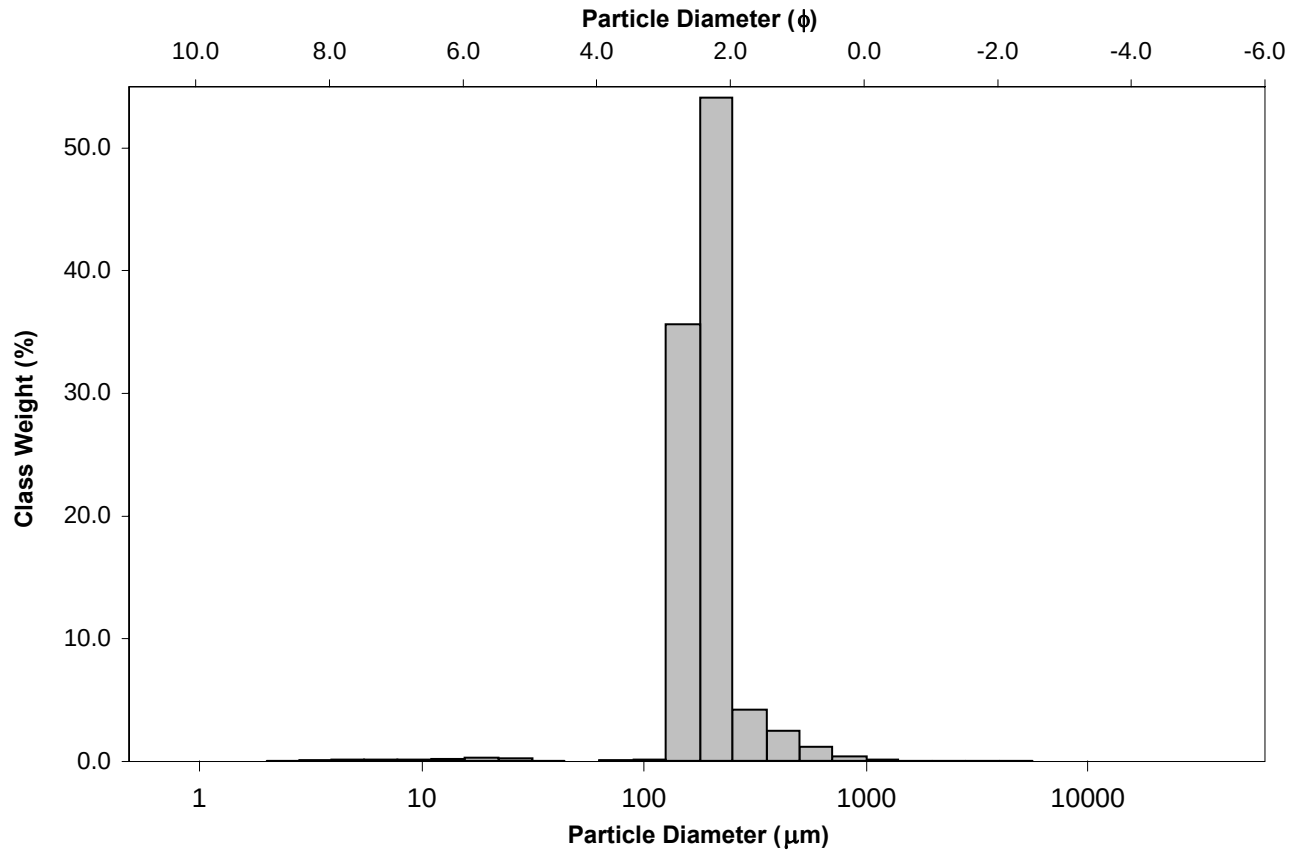
	μm	ϕ
MODE 1:	215.0	2.237
MODE 2:		
MODE 3:		
D_{10}:	135.7	2.013
MEDIAN or D_{50}:	192.4	2.378
D_{90}:	247.8	2.882
(D_{90} / D_{10}):	1.826	1.432
(D_{90} - D_{10}):	112.1	0.869
(D_{75} / D_{25}):	1.438	1.244
(D_{75} - D_{25}):	68.68	0.524

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.1%	COARSE SAND:	1.6%
SAND:	98.7%	MEDIUM SAND:	6.8%
MUD:	1.3%	FINE SAND:	90.0%
		V FINE SAND:	0.2%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.0%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.5%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	0.3%
FINE GRAVEL:	0.0%	FINE SILT:	0.3%
V FINE GRAVEL:	0.0%	V FINE SILT:	0.1%
V COARSE SAND:	0.1%	CLAY:	0.0%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	208.2	188.7	2.405	187.5	2.415	Fine Sand
SORTING (σ):	124.4	1.557	0.639	1.311	0.391	Well Sorted
SKEWNESS (Sk):	15.98	-3.187	3.187	0.006	-0.006	Symmetrical
KURTOSIS (K):	473.3	33.23	33.23	1.073	1.073	Mesokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_86**

ANALYST & DATE: corrine.abel, 12/6/2012

SAMPLE TYPE: Unimodal, Very Well Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

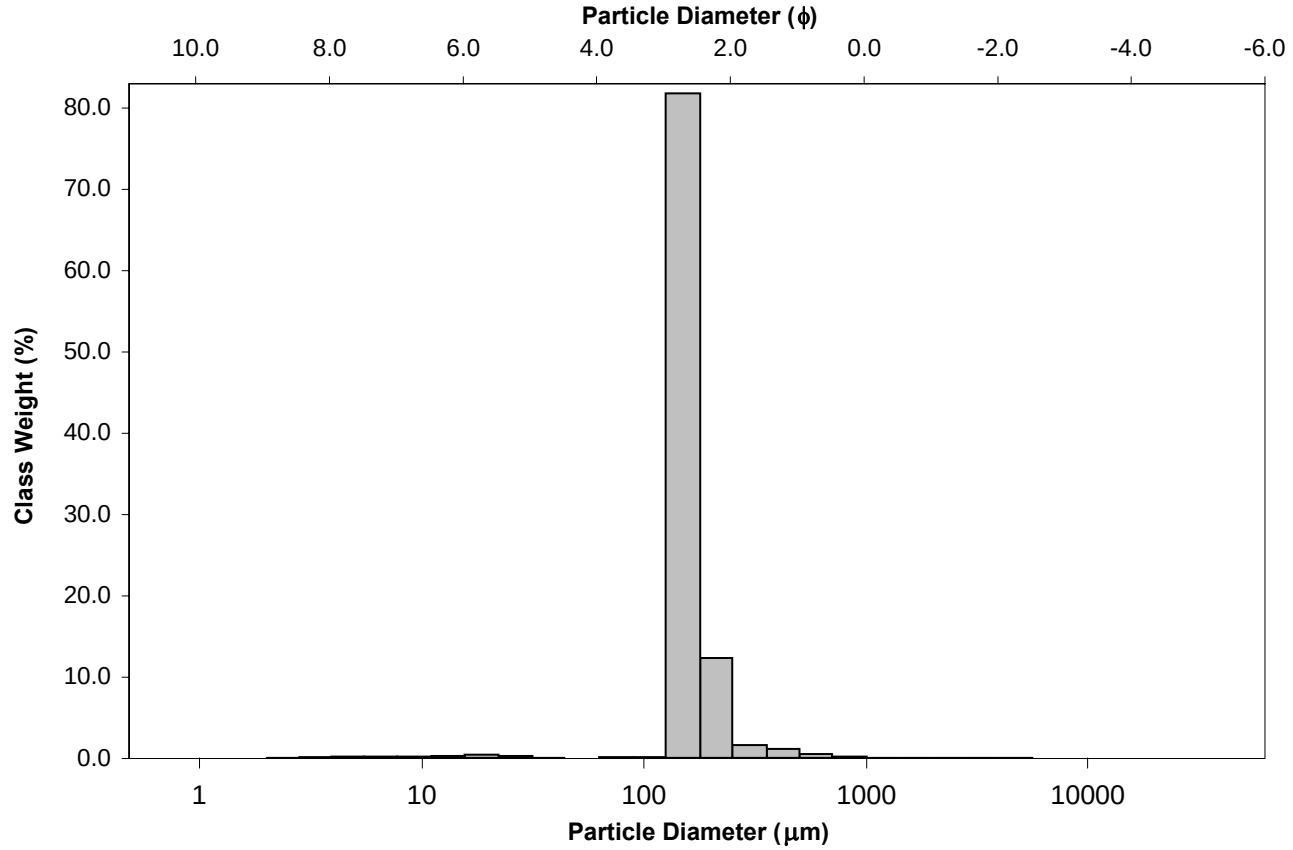
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	129.5	2.276
MEDIAN or D_{50}:	154.3	2.696
D_{90}:	206.4	2.949
(D_{90} / D_{10}):	1.594	1.295
(D_{90} - D_{10}):	76.91	0.672
(D_{75} / D_{25}):	1.244	1.124
(D_{75} - D_{25}):	33.80	0.315

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.1%	COARSE SAND:	0.7%
SAND:	98.3%	MEDIUM SAND:	2.6%
MUD:	1.6%	FINE SAND:	94.7%
		V FINE SAND:	0.2%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.0%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.7%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	0.4%
FINE GRAVEL:	0.0%	FINE SILT:	0.4%
V FINE GRAVEL:	0.1%	V FINE SILT:	0.2%
V COARSE SAND:	0.1%	CLAY:	0.0%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	169.3	154.6	2.694	154.3	2.696	Fine Sand
SORTING (σ):	119.9	1.528	0.612	1.186	0.246	Very Well Sorted
SKEWNESS (Sk):	23.33	-4.084	4.084	0.189	-0.189	Coarse Skewed
KURTOSIS (K):	761.6	42.24	42.24	1.186	1.186	Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_87** ANALYST & DATE: corrine.abel, 12/6/2012

SAMPLE TYPE: Unimodal, Moderately Well Sorted TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

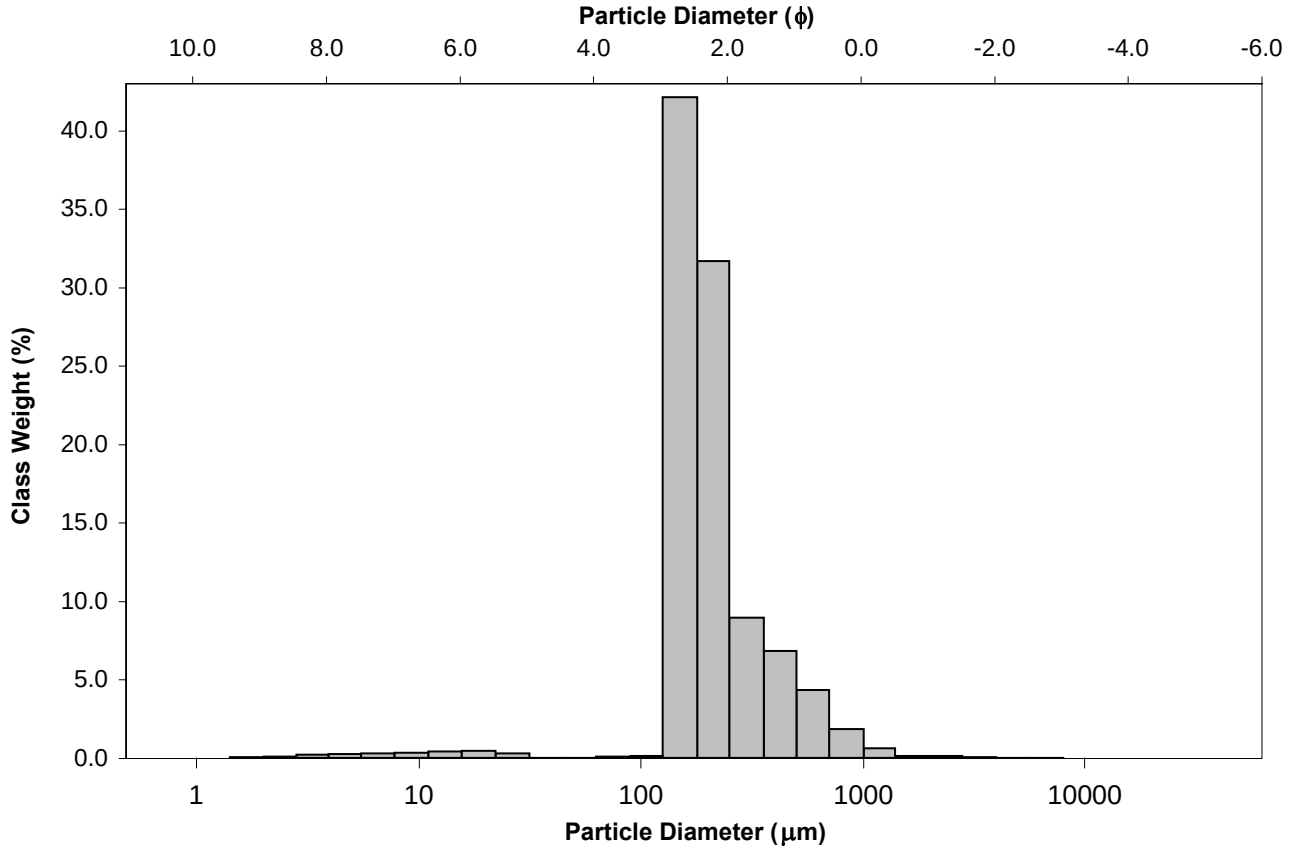
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	132.7	1.204
MEDIAN or D_{50}:	185.9	2.427
D_{90}:	434.1	2.914
(D_{90} / D_{10}):	3.273	2.421
(D_{90} - D_{10}):	301.5	1.710
(D_{75} / D_{25}):	1.629	1.347
(D_{75} - D_{25}):	94.46	0.704

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.2%	COARSE SAND:	6.2%
SAND:	97.2%	MEDIUM SAND:	15.8%
MUD:	2.5%	FINE SAND:	74.2%
		V FINE SAND:	0.3%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.0%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.8%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	0.7%
FINE GRAVEL:	0.0%	FINE SILT:	0.6%
V FINE GRAVEL:	0.2%	V FINE SILT:	0.3%
V COARSE SAND:	0.8%	CLAY:	0.0%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	249.3	198.7	2.331	204.1	2.293	Fine Sand
SORTING (σ):	242.3	1.986	0.990	1.566	0.647	Moderately Well Sorted
SKEWNESS (Sk):	10.21	-1.793	1.793	0.418	-0.418	Very Coarse Skewed
KURTOSIS (K):	197.6	15.04	15.04	1.298	1.298	Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_90** ANALYST & DATE: corrine.abel, 12/6/2012

SAMPLE TYPE: Bimodal, Moderately Well Sorted TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

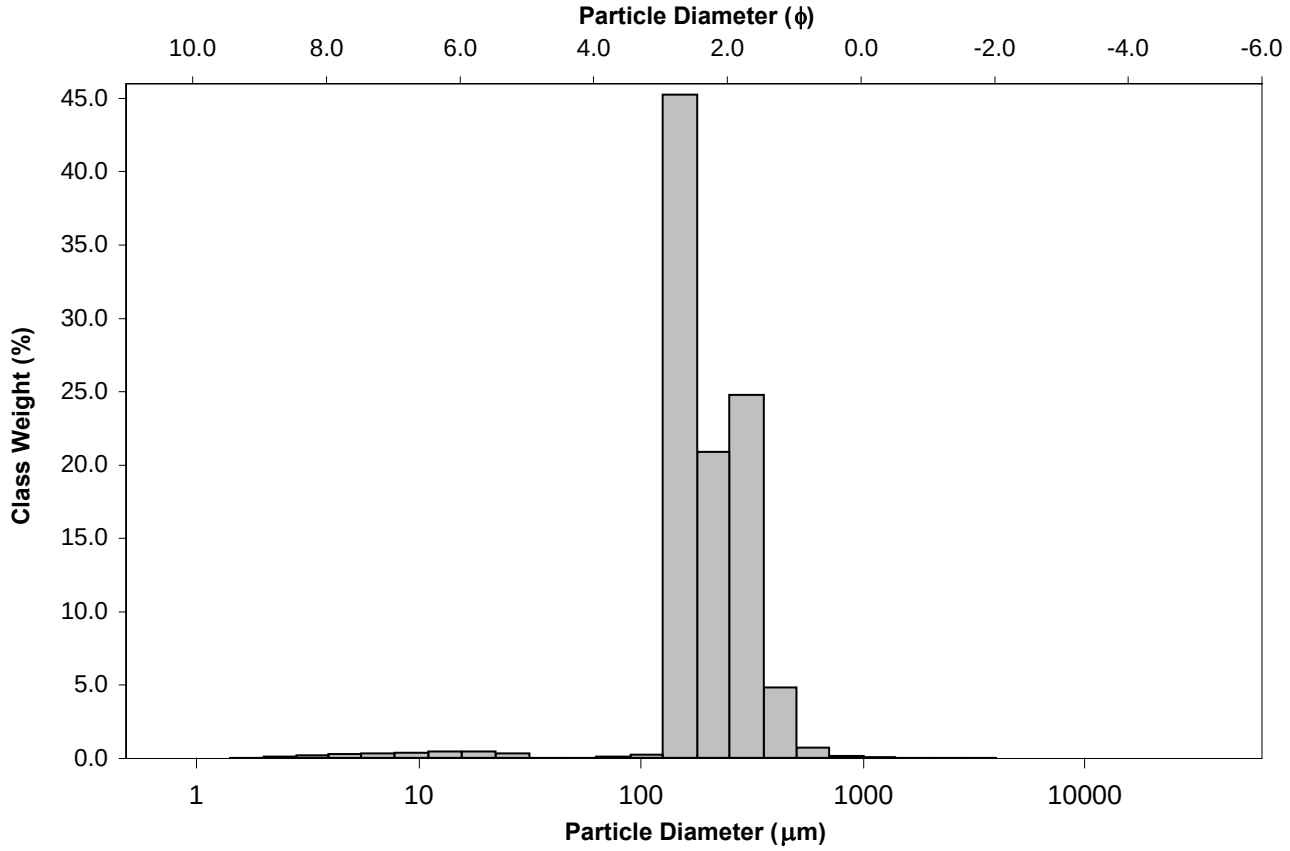
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:	302.5	1.747
MODE 3:		
D_{10}:	132.1	1.582
MEDIAN or D_{50}:	180.2	2.473
D_{90}:	333.9	2.920
(D_{90} / D_{10}):	2.527	1.845
(D_{90} - D_{10}):	201.8	1.338
(D_{75} / D_{25}):	1.820	1.457
(D_{75} - D_{25}):	121.7	0.864

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.1%	COARSE SAND:	0.8%
SAND:	97.4%	MEDIUM SAND:	29.5%
MUD:	2.5%	FINE SAND:	66.7%
		V FINE SAND:	0.3%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.0%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.8%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	0.8%
FINE GRAVEL:	0.0%	FINE SILT:	0.6%
V FINE GRAVEL:	0.1%	V FINE SILT:	0.3%
V COARSE SAND:	0.1%	CLAY:	0.0%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	217.9	189.2	2.402	197.0	2.344	Fine Sand
SORTING (σ):	117.9	1.828	0.870	1.436	0.522	Moderately Well Sorted
SKEWNESS (Sk):	8.560	-3.185	3.185	0.345	-0.345	Very Coarse Skewed
KURTOSIS (K):	187.0	21.01	21.01	0.737	0.737	Platykurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_92**

ANALYST & DATE: corrine.abel, 12/6/2012

SAMPLE TYPE: Unimodal, Moderately Well Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Fine Gravelly Fine Sand

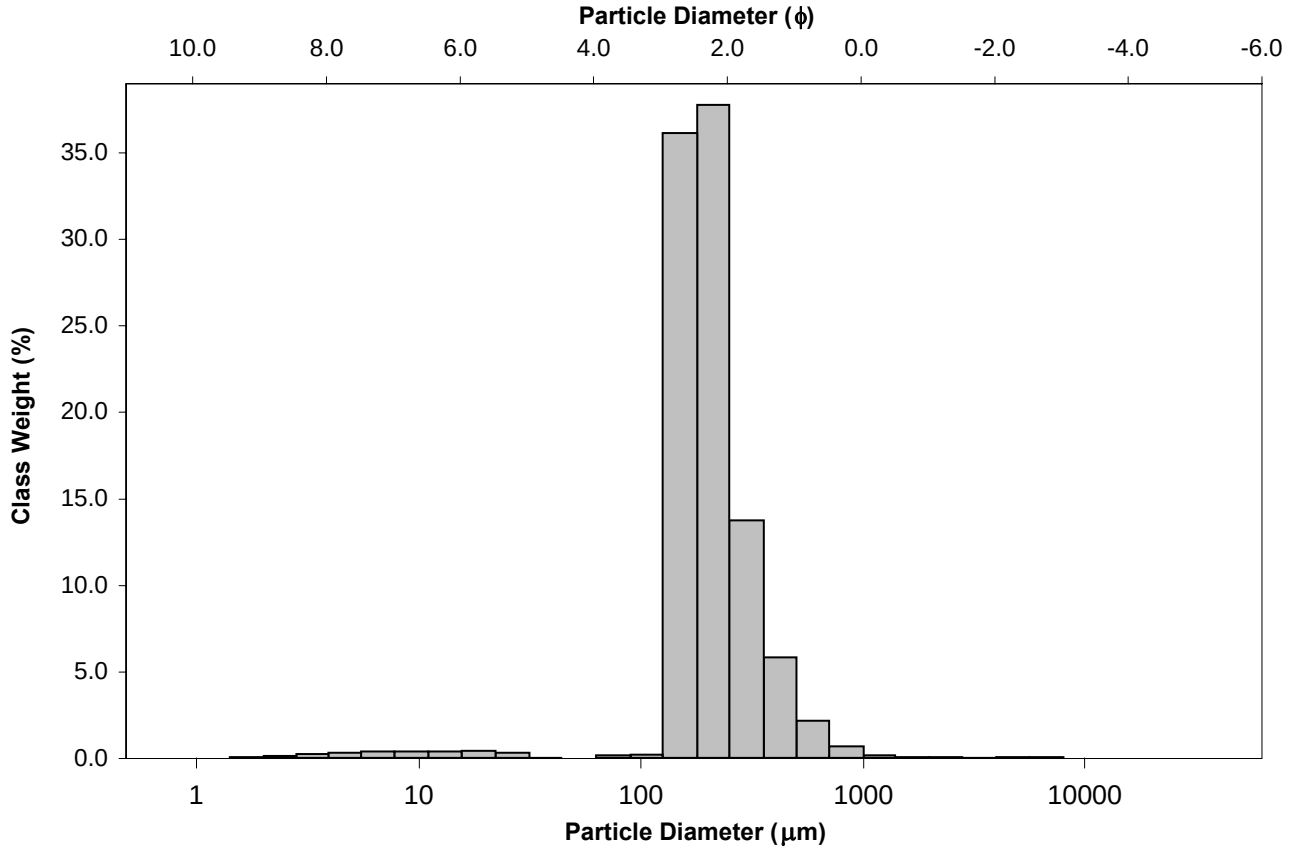
	μm	ϕ
MODE 1:	215.0	2.237
MODE 2:		
MODE 3:		
D_{10}:	133.7	1.530
MEDIAN or D_{50}:	195.3	2.356
D_{90}:	346.4	2.903
(D_{90} / D_{10}):	2.590	1.898
(D_{90} - D_{10}):	212.6	1.373
(D_{75} / D_{25}):	1.590	1.330
(D_{75} - D_{25}):	91.11	0.669

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.2%	COARSE SAND:	2.9%
SAND:	97.3%	MEDIUM SAND:	19.7%
MUD:	2.5%	FINE SAND:	74.1%
		V FINE SAND:	0.4%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.0%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.7%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	0.7%
FINE GRAVEL:	0.1%	FINE SILT:	0.7%
V FINE GRAVEL:	0.1%	V FINE SILT:	0.4%
V COARSE SAND:	0.2%	CLAY:	0.1%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	232.9	194.2	2.364	202.0	2.308	Fine Sand
SORTING (σ):	231.5	1.903	0.928	1.458	0.544	Moderately Well Sorted
SKEWNESS (Sk):	17.56	-2.757	2.757	0.230	-0.230	Coarse Skewed
KURTOSIS (K):	434.0	20.36	20.36	1.116	1.116	Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_93** ANALYST & DATE: corrine.abel, 12/6/2012

SAMPLE TYPE: Unimodal, Moderately Well Sorted TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

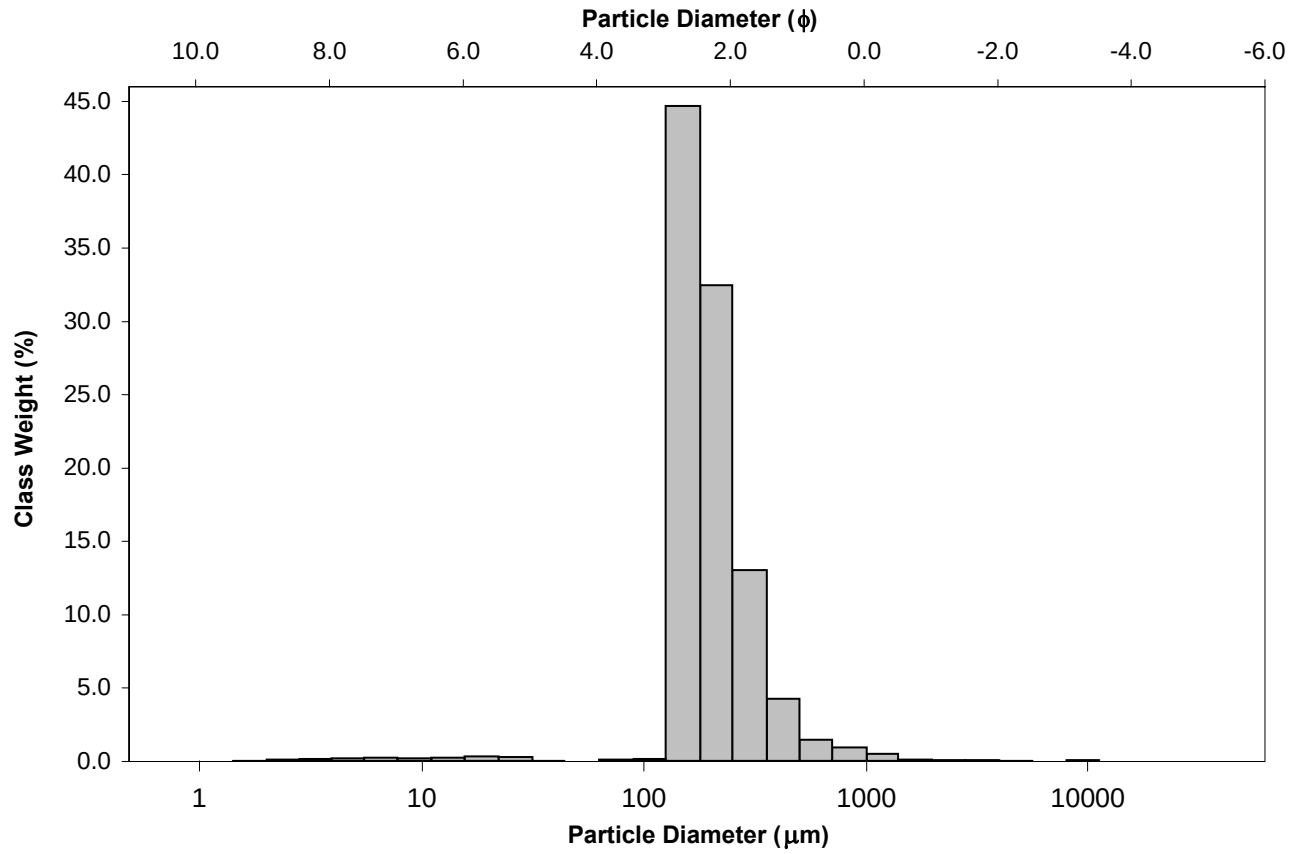
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	132.9	1.598
MEDIAN or D_{50}:	182.1	2.457
D_{90}:	330.4	2.911
(D_{90} / D_{10}):	2.485	1.822
(D_{90} - D_{10}):	197.5	1.313
(D_{75} / D_{25}):	1.593	1.325
(D_{75} - D_{25}):	88.66	0.672

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.2%	COARSE SAND:	2.4%
SAND:	98.0%	MEDIUM SAND:	17.3%
MUD:	1.8%	FINE SAND:	77.5%
		V FINE SAND:	0.3%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.0%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.6%
MEDIUM GRAVEL:	0.1%	MEDIUM SILT:	0.5%
FINE GRAVEL:	0.0%	FINE SILT:	0.4%
V FINE GRAVEL:	0.1%	V FINE SILT:	0.2%
V COARSE SAND:	0.6%	CLAY:	0.0%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	228.7	191.3	2.386	192.6	2.377	Fine Sand
SORTING (σ):	278.4	1.775	0.828	1.432	0.518	Moderately Well Sorted
SKEWNESS (Sk):	22.66	-2.025	2.025	0.326	-0.326	Very Coarse Skewed
KURTOSIS (K):	704.6	21.36	21.36	1.064	1.064	Mesokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_94**

ANALYST & DATE: corrine.abel, 12/6/2012

SAMPLE TYPE: Unimodal, Well Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

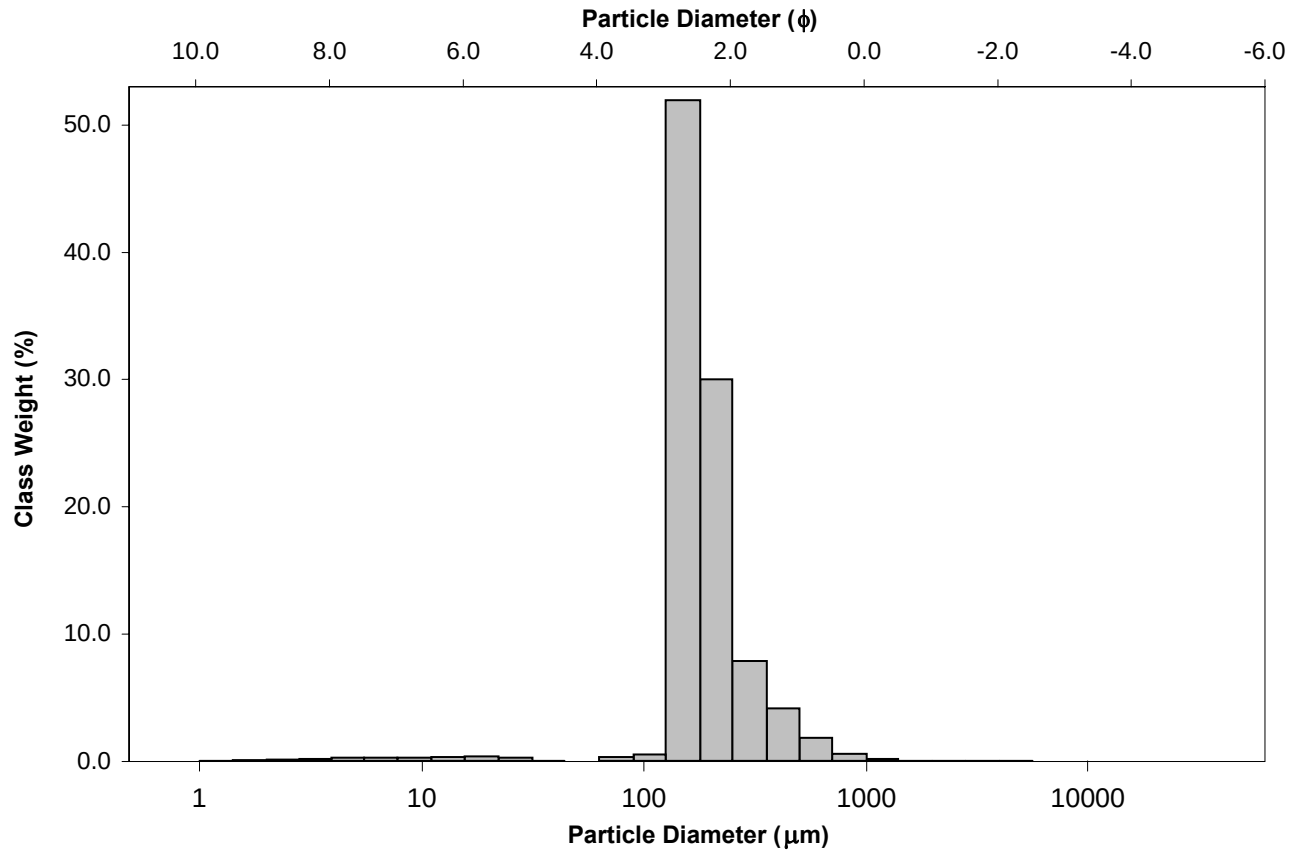
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	131.0	1.704
MEDIAN or D_{50}:	171.5	2.544
D_{90}:	306.9	2.932
(D_{90} / D_{10}):	2.342	1.721
(D_{90} - D_{10}):	175.9	1.228
(D_{75} / D_{25}):	1.528	1.281
(D_{75} - D_{25}):	76.55	0.612

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.1%	COARSE SAND:	2.3%
SAND:	97.7%	MEDIUM SAND:	12.0%
MUD:	2.2%	FINE SAND:	82.4%
		V FINE SAND:	0.8%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.0%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.6%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	0.6%
FINE GRAVEL:	0.0%	FINE SILT:	0.6%
V FINE GRAVEL:	0.1%	V FINE SILT:	0.3%
V COARSE SAND:	0.2%	CLAY:	0.1%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	207.1	177.8	2.491	179.2	2.480	Fine Sand
SORTING (σ):	156.0	1.795	0.844	1.385	0.469	Well Sorted
SKEWNESS (Sk):	13.31	-2.867	2.867	0.354	-0.354	Very Coarse Skewed
KURTOSIS (K):	318.6	22.95	22.95	1.136	1.136	Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_95**

ANALYST & DATE: corrine.abel, 12/6/2012

SAMPLE TYPE: Unimodal, Moderately Well Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Fine Gravelly Fine Sand

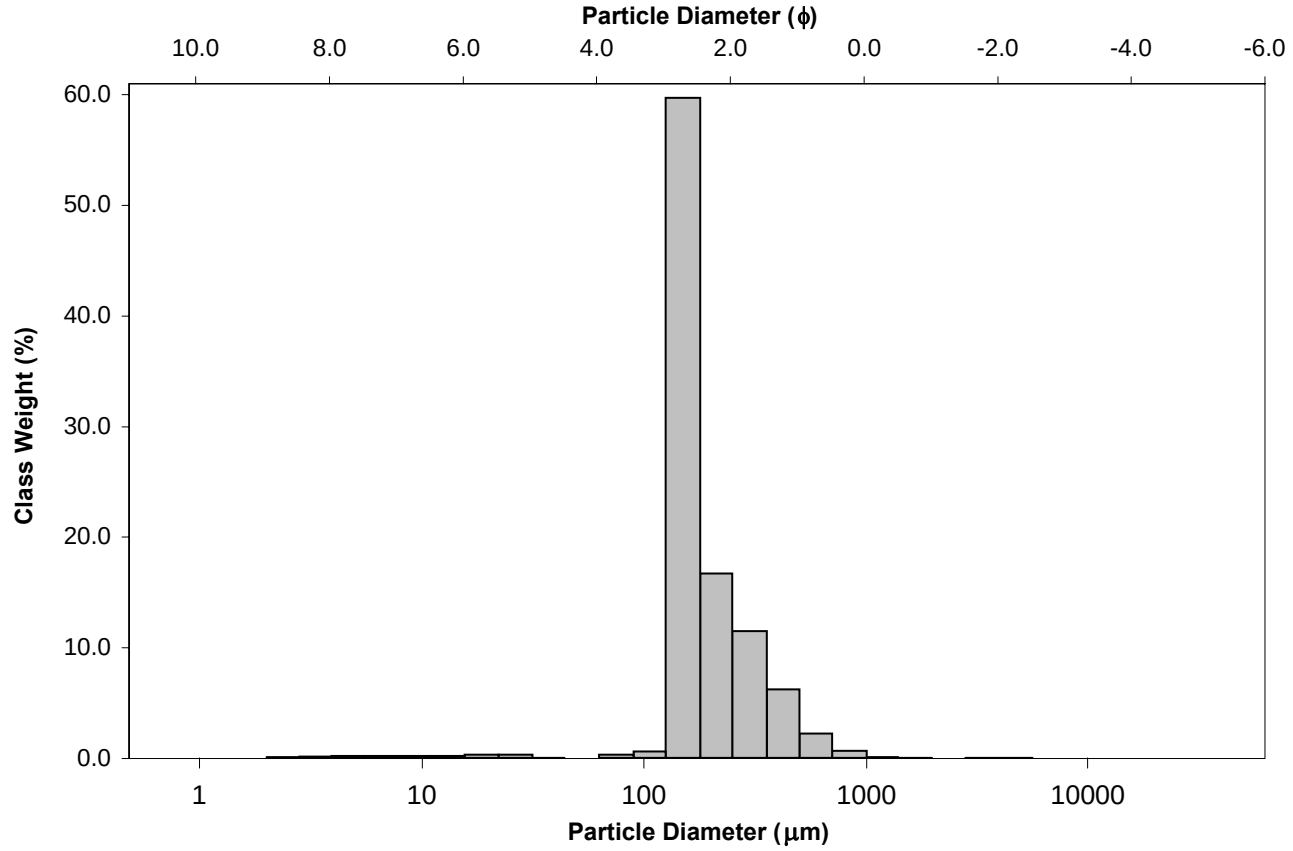
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	130.7	1.537
MEDIAN or D_{50}:	165.6	2.594
D_{90}:	344.7	2.935
(D_{90} / D_{10}):	2.636	1.910
(D_{90} - D_{10}):	213.9	1.399
(D_{75} / D_{25}):	1.589	1.312
(D_{75} - D_{25}):	84.12	0.668

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.1%	COARSE SAND:	2.8%
SAND:	98.3%	MEDIUM SAND:	17.4%
MUD:	1.6%	FINE SAND:	77.1%
		V FINE SAND:	0.8%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.0%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.6%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	0.4%
FINE GRAVEL:	0.0%	FINE SILT:	0.4%
V FINE GRAVEL:	0.0%	V FINE SILT:	0.2%
V COARSE SAND:	0.1%	CLAY:	0.0%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	211.4	182.1	2.457	186.0	2.427	Fine Sand
SORTING (σ):	156.7	1.717	0.780	1.459	0.545	Moderately Well Sorted
SKEWNESS (Sk):	12.66	-1.926	1.926	0.520	-0.520	Very Coarse Skewed
KURTOSIS (K):	312.9	19.40	19.40	1.113	1.113	Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_97** ANALYST & DATE: corrine.abel, 12/6/2012

SAMPLE TYPE: Bimodal, Moderately Well Sorted TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

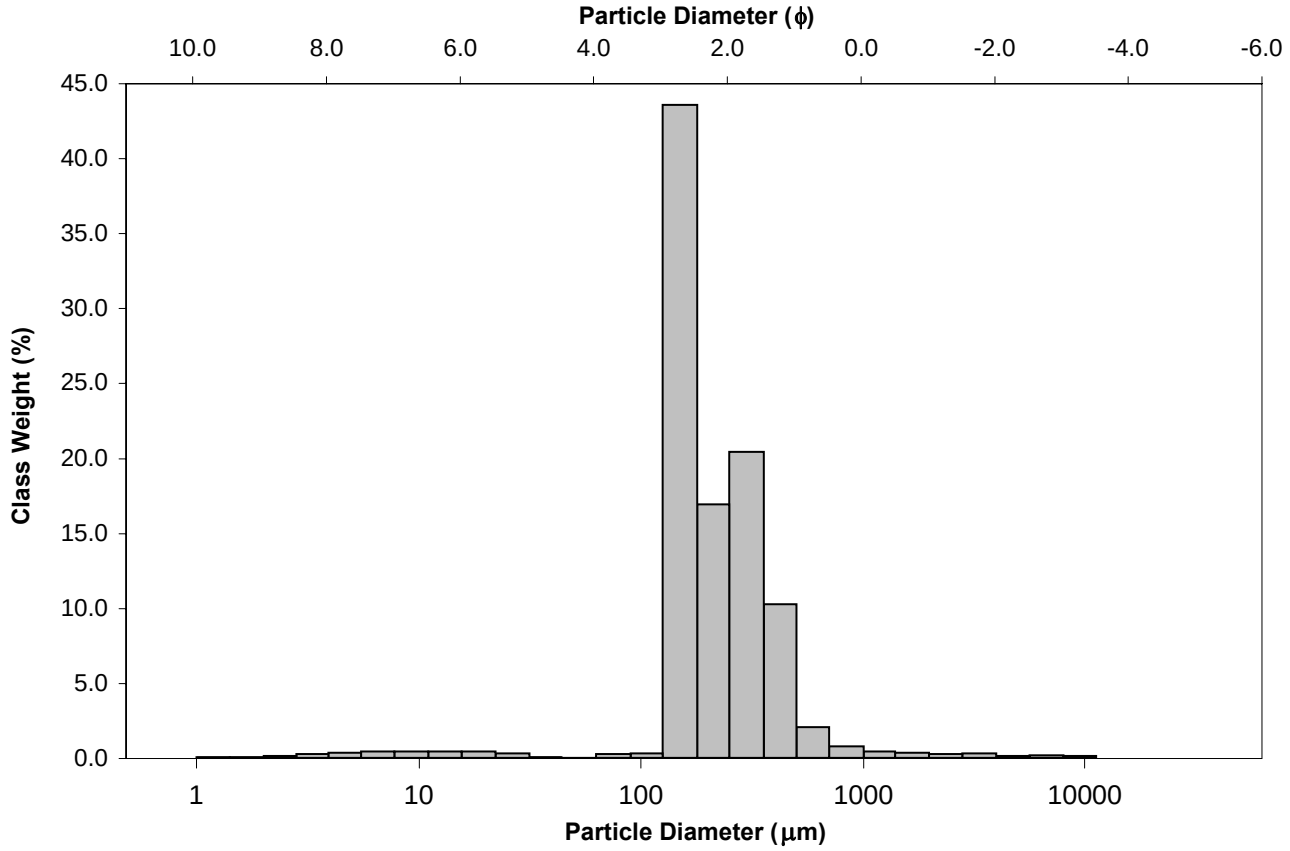
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:	302.5	1.747
MODE 3:		
D_{10}:	131.5	1.262
MEDIAN or D_{50}:	183.7	2.444
D_{90}:	417.0	2.927
(D_{90} / D_{10}):	3.170	2.319
(D_{90} - D_{10}):	285.5	1.665
(D_{75} / D_{25}):	2.005	1.574
(D_{75} - D_{25}):	149.1	1.004

GRAIN SIZE DISTRIBUTION

GRAVEL:	1.1%	COARSE SAND:	2.9%
SAND:	95.9%	MEDIUM SAND:	30.5%
MUD:	3.0%	FINE SAND:	61.2%
		V FINE SAND:	0.6%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.1%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.7%
MEDIUM GRAVEL:	0.2%	MEDIUM SILT:	0.9%
FINE GRAVEL:	0.3%	FINE SILT:	0.8%
V FINE GRAVEL:	0.6%	V FINE SILT:	0.4%
V COARSE SAND:	0.7%	CLAY:	0.1%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	291.1	203.0	2.301	206.5	2.276	Fine Sand
SORTING (σ):	566.8	2.210	1.144	1.549	0.631	Moderately Well Sorted
SKEWNESS (Sk):	11.53	-1.447	1.447	0.416	-0.416	Very Coarse Skewed
KURTOSIS (K):	160.7	14.56	14.56	0.804	0.804	Platykurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_99** ANALYST & DATE: corrine.abel, 12/6/2012

SAMPLE TYPE: Unimodal, Moderately Well Sorted TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

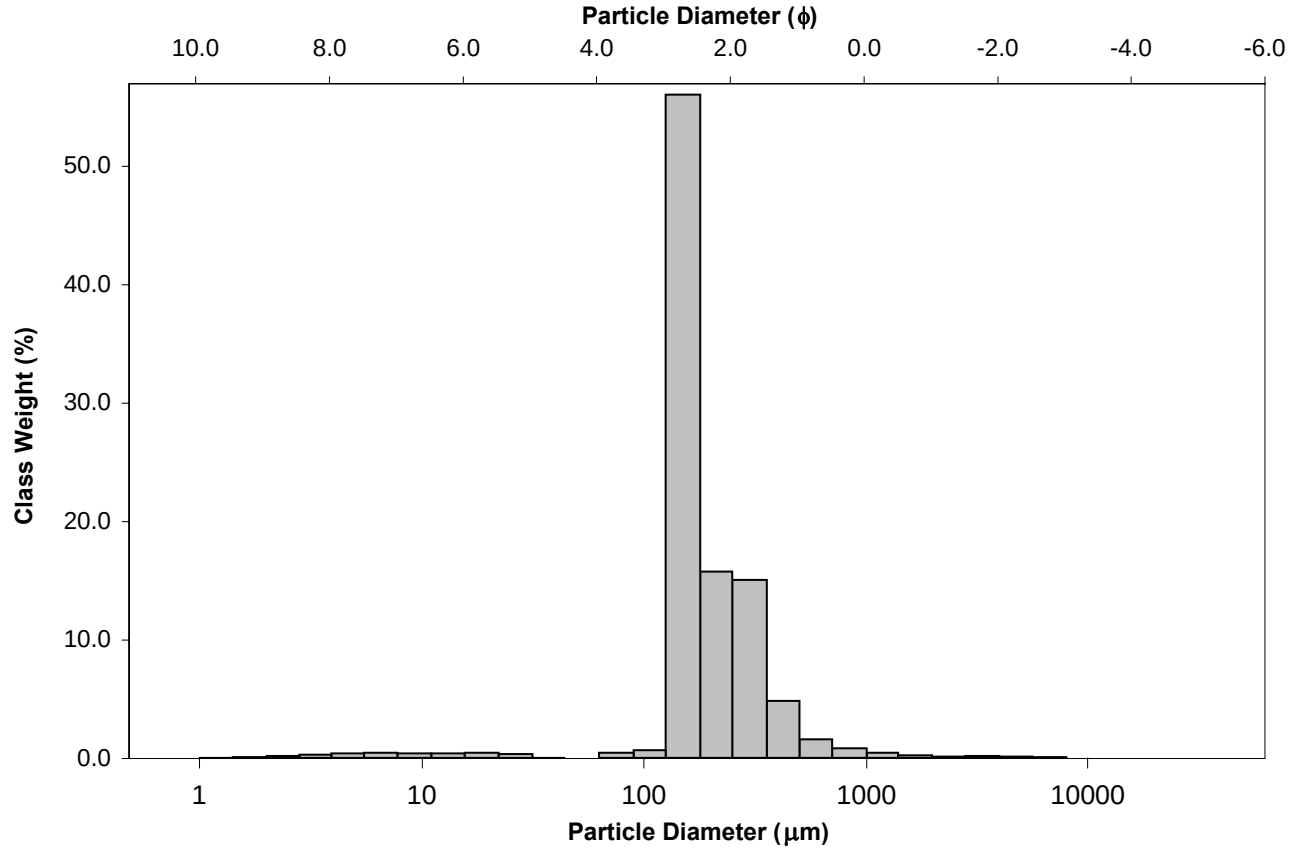
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	129.7	1.552
MEDIAN or D_{50}:	166.9	2.583
D_{90}:	341.1	2.946
(D_{90} / D_{10}):	2.629	1.899
(D_{90} - D_{10}):	211.4	1.395
(D_{75} / D_{25}):	1.687	1.367
(D_{75} - D_{25}):	98.01	0.755

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.5%	COARSE SAND:	2.3%
SAND:	96.4%	MEDIUM SAND:	19.7%
MUD:	3.0%	FINE SAND:	72.6%
		V FINE SAND:	1.1%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.0%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.8%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	0.9%
FINE GRAVEL:	0.2%	FINE SILT:	0.8%
V FINE GRAVEL:	0.3%	V FINE SILT:	0.4%
V COARSE SAND:	0.7%	CLAY:	0.1%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	235.1	179.3	2.479	188.2	2.410	Fine Sand
SORTING (σ):	343.2	2.056	1.040	1.478	0.564	Moderately Well Sorted
SKEWNESS (Sk):	12.25	-1.848	1.848	0.507	-0.507	Very Coarse Skewed
KURTOSIS (K):	194.1	16.13	16.13	1.002	1.002	Mesokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_100**

ANALYST & DATE: corrine.abel, 12/6/2012

SAMPLE TYPE: Unimodal, Very Well Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Medium Gravelly Fine Sand

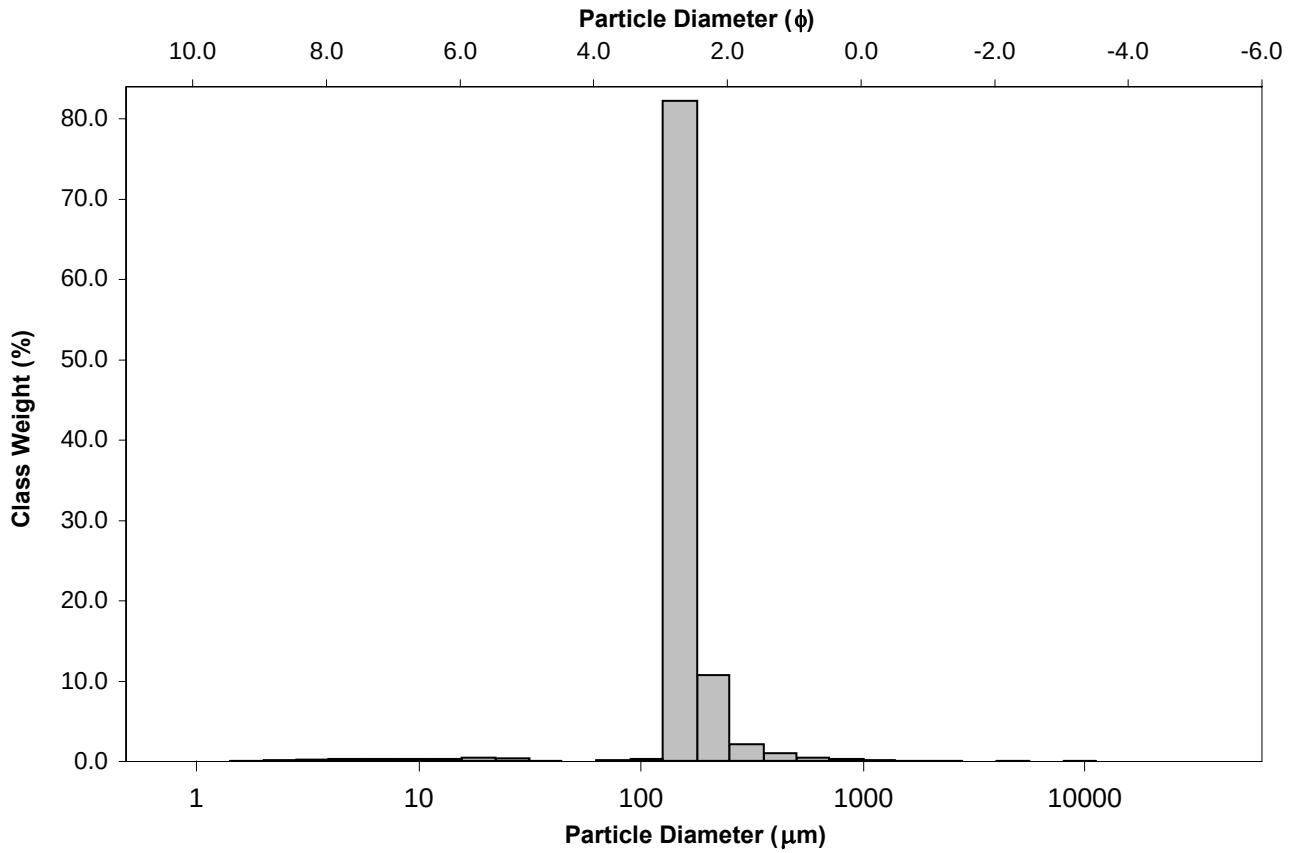
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	129.2	2.288
MEDIAN or D_{50}:	153.8	2.701
D_{90}:	204.7	2.953
(D_{90} / D_{10}):	1.585	1.290
(D_{90} - D_{10}):	75.54	0.664
(D_{75} / D_{25}):	1.243	1.124
(D_{75} - D_{25}):	33.56	0.314

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.2%	COARSE SAND:	0.7%
SAND:	97.7%	MEDIUM SAND:	3.0%
MUD:	2.1%	FINE SAND:	93.5%
		V FINE SAND:	0.3%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.0%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.8%
MEDIUM GRAVEL:	0.1%	MEDIUM SILT:	0.6%
FINE GRAVEL:	0.1%	FINE SILT:	0.5%
V FINE GRAVEL:	0.0%	V FINE SILT:	0.3%
V COARSE SAND:	0.2%	CLAY:	0.0%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	177.2	152.8	2.710	153.8	2.701	Fine Sand
SORTING (σ):	286.6	1.642	0.716	1.188	0.249	Very Well Sorted
SKEWNESS (Sk):	26.96	-3.201	3.201	0.199	-0.199	Coarse Skewed
KURTOSIS (K):	829.5	35.54	35.54	1.223	1.223	Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_101** ANALYST & DATE: corrine.abel, 12/6/2012

SAMPLE TYPE: Unimodal, Very Well Sorted TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

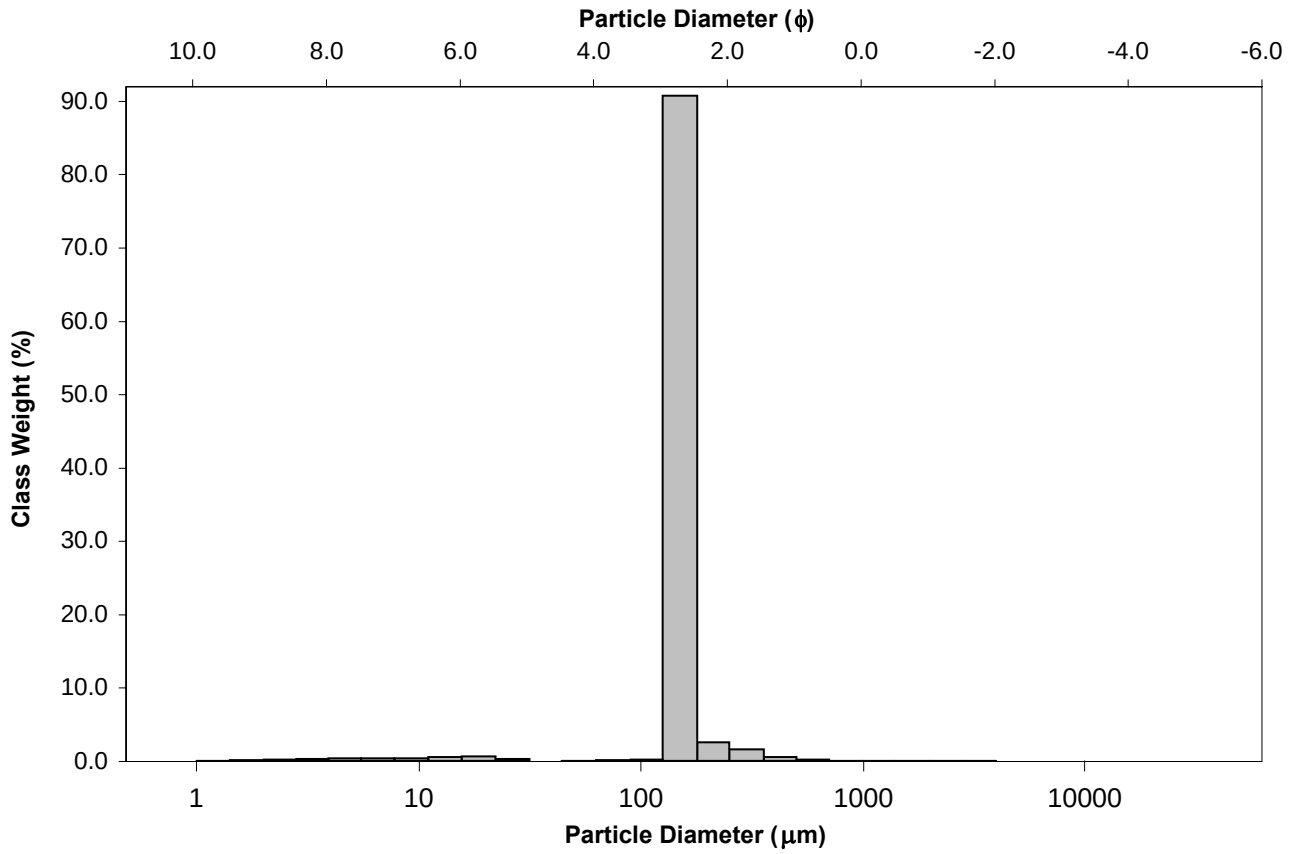
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	128.3	2.504
MEDIAN or D_{50}:	150.4	2.733
D_{90}:	176.3	2.963
(D_{90} / D_{10}):	1.375	1.183
(D_{90} - D_{10}):	48.05	0.459
(D_{75} / D_{25}):	1.220	1.111
(D_{75} - D_{25}):	29.96	0.287

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.1%	COARSE SAND:	0.3%
SAND:	96.8%	MEDIUM SAND:	2.1%
MUD:	3.2%	FINE SAND:	94.0%
		V FINE SAND:	0.4%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.0%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.9%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	0.9%
FINE GRAVEL:	0.0%	FINE SILT:	0.8%
V FINE GRAVEL:	0.1%	V FINE SILT:	0.5%
V COARSE SAND:	0.1%	CLAY:	0.1%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	157.6	141.3	2.823	150.4	2.733	Fine Sand
SORTING (σ):	96.24	1.736	0.796	1.130	0.176	Very Well Sorted
SKEWNESS (Sk):	20.37	-4.686	4.686	0.000	0.000	Symmetrical
KURTOSIS (K):	571.7	31.82	31.82	0.738	0.738	Platykurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_102** ANALYST & DATE: corrine.abel, 12/6/2012

SAMPLE TYPE: Unimodal, Very Well Sorted TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

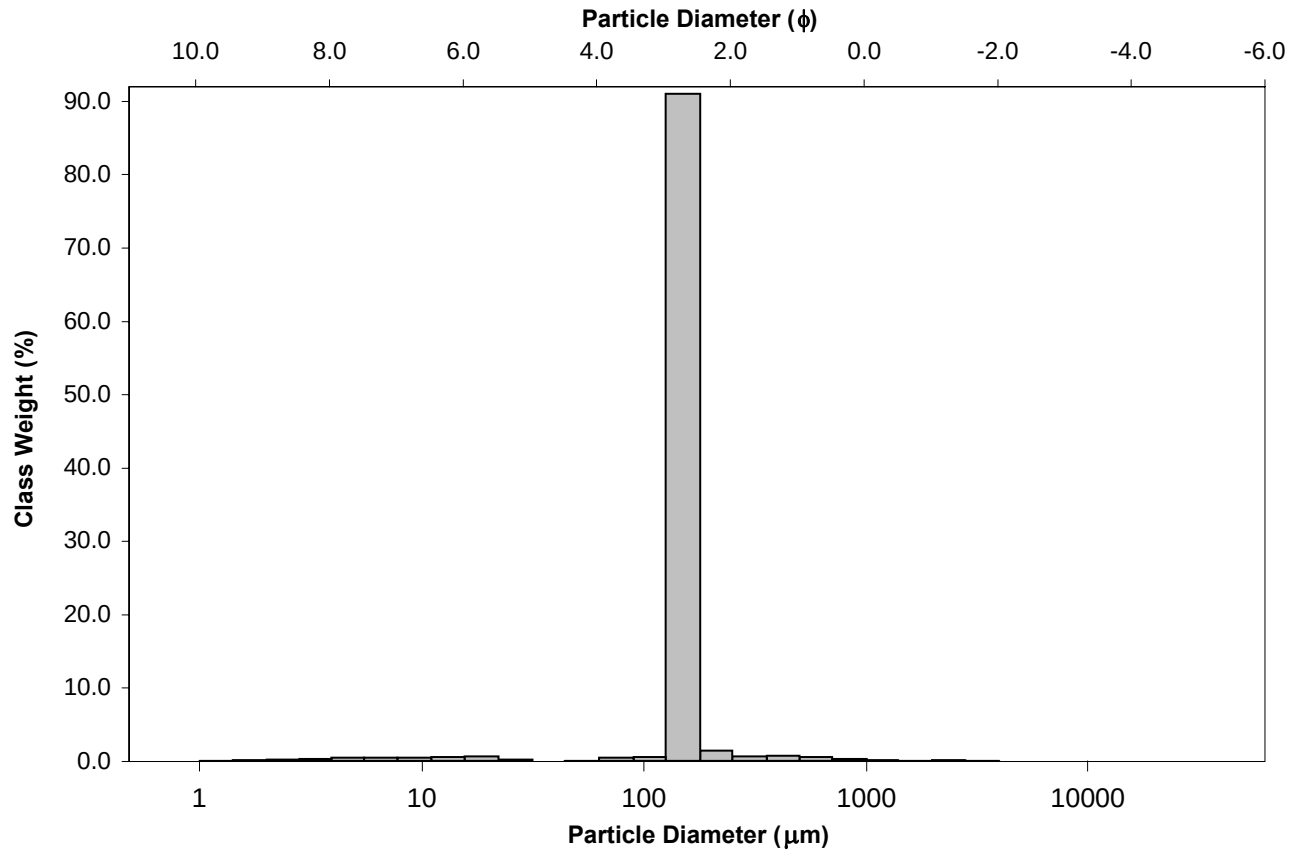
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	127.8	2.510
MEDIAN or D_{50}:	149.8	2.739
D_{90}:	175.5	2.968
(D_{90} / D_{10}):	1.374	1.182
(D_{90} - D_{10}):	47.74	0.458
(D_{75} / D_{25}):	1.219	1.110
(D_{75} - D_{25}):	29.76	0.286

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.1%	COARSE SAND:	0.8%
SAND:	96.4%	MEDIUM SAND:	1.4%
MUD:	3.4%	FINE SAND:	93.2%
		V FINE SAND:	1.0%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.0%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.9%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	1.1%
FINE GRAVEL:	0.0%	FINE SILT:	0.9%
V FINE GRAVEL:	0.1%	V FINE SILT:	0.5%
V COARSE SAND:	0.1%	CLAY:	0.1%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	159.6	140.0	2.836	149.8	2.739	Fine Sand
SORTING (σ):	116.8	1.799	0.847	1.129	0.175	Very Well Sorted
SKEWNESS (Sk):	16.08	-4.083	4.083	0.000	0.000	Symmetrical
KURTOSIS (K):	356.0	27.33	27.33	0.738	0.738	Platykurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_103**

ANALYST & DATE: corrine.abel, 12/6/2012

SAMPLE TYPE: Unimodal, Well Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

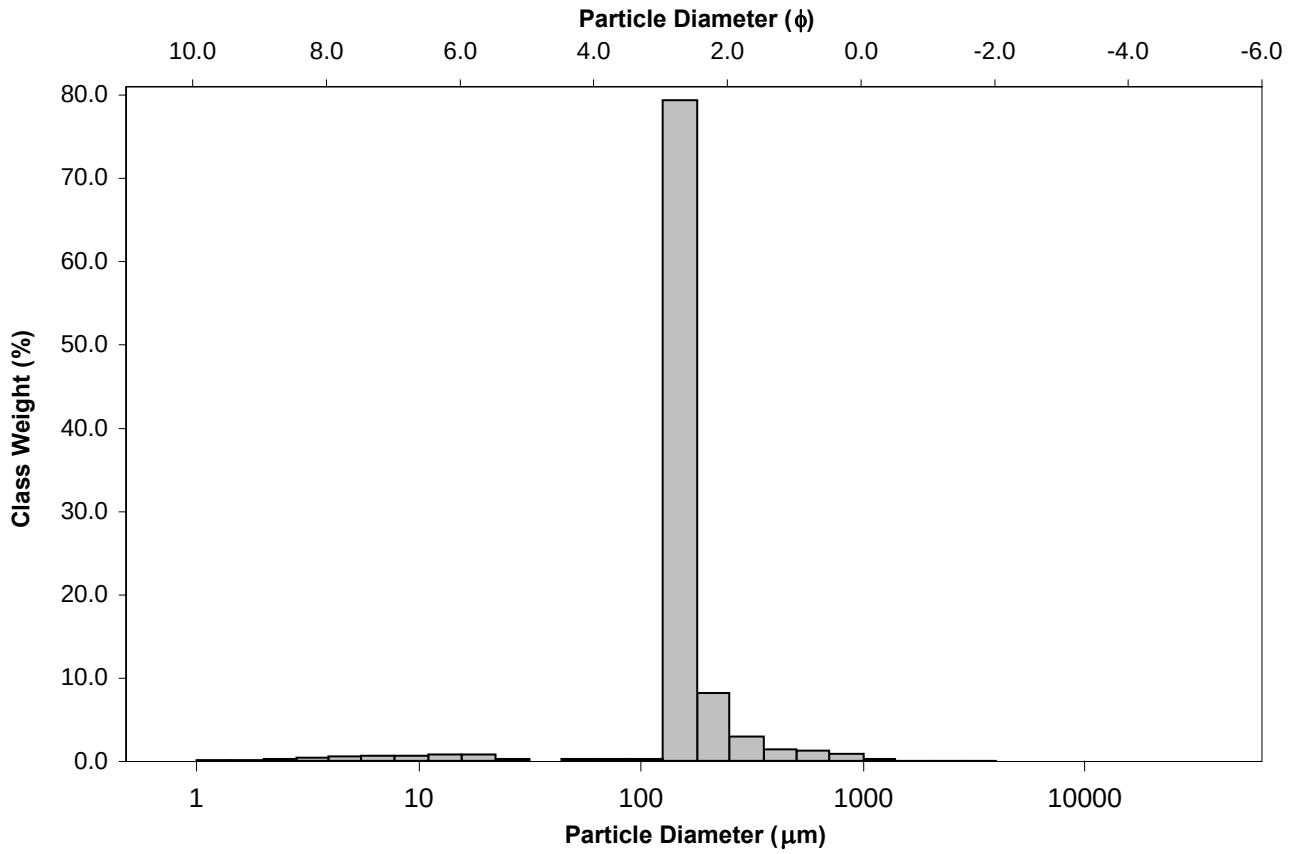
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	127.7	2.221
MEDIAN or D_{50}:	153.0	2.709
D_{90}:	214.5	2.970
(D_{90} / D_{10}):	1.680	1.337
(D_{90} - D_{10}):	86.85	0.749
(D_{75} / D_{25}):	1.254	1.128
(D_{75} - D_{25}):	34.64	0.326

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.1%	COARSE SAND:	2.0%
SAND:	95.1%	MEDIUM SAND:	4.2%
MUD:	4.8%	FINE SAND:	88.1%
		V FINE SAND:	0.6%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.3%
COARSE GRAVEL:	0.0%	COARSE SILT:	1.0%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	1.5%
FINE GRAVEL:	0.0%	FINE SILT:	1.2%
V FINE GRAVEL:	0.1%	V FINE SILT:	0.6%
V COARSE SAND:	0.3%	CLAY:	0.3%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	174.3	143.7	2.799	153.0	2.709	Fine Sand
SORTING (σ):	133.4	2.082	1.058	1.314	0.393	Well Sorted
SKEWNESS (Sk):	9.412	-3.226	3.226	0.026	-0.026	Symmetrical
KURTOSIS (K):	159.5	18.77	18.77	2.345	2.345	Very Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_106**

ANALYST & DATE: corrine.abel, 12/6/2012

SAMPLE TYPE: Unimodal, Moderately Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

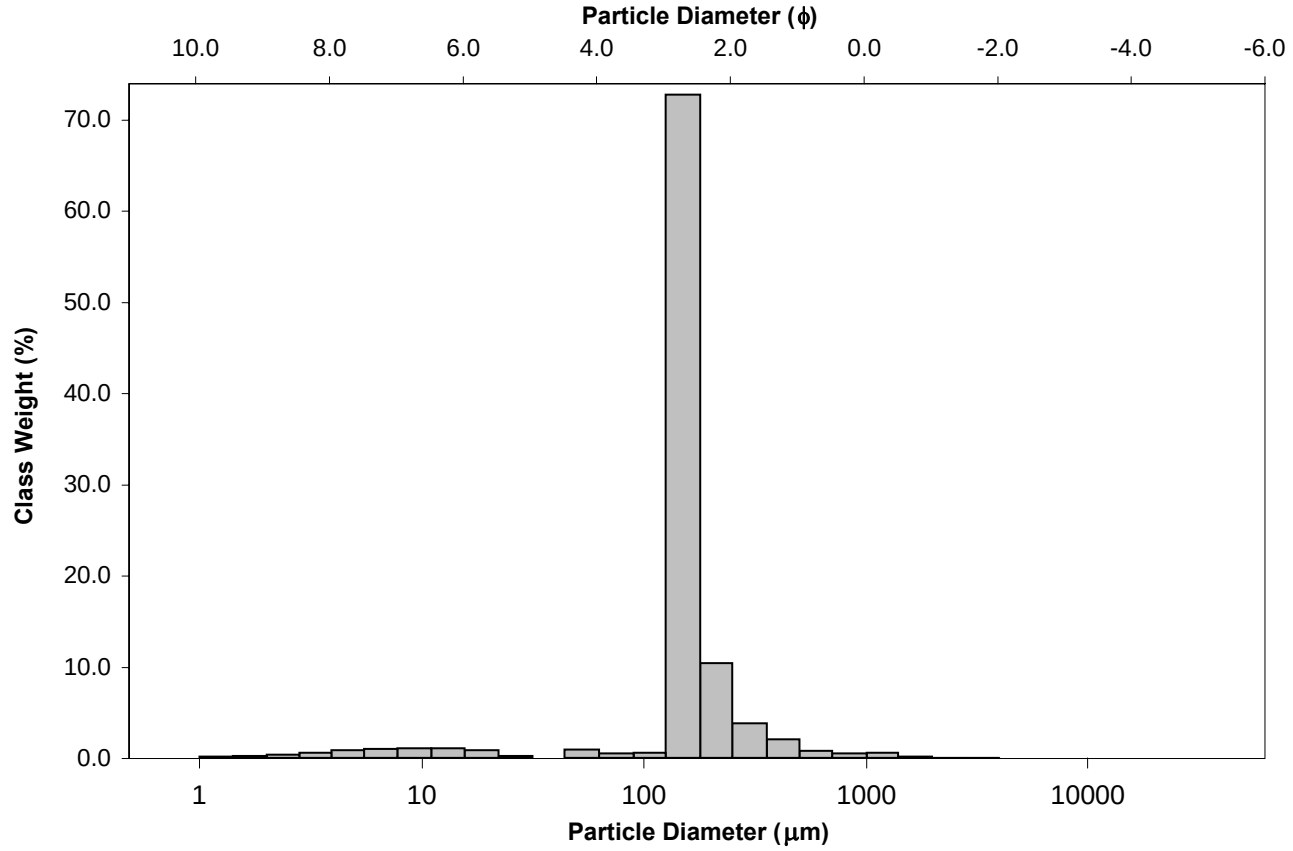
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	125.9	2.115
MEDIAN or D_{50}:	153.3	2.706
D_{90}:	230.9	2.989
(D_{90} / D_{10}):	1.834	1.414
(D_{90} - D_{10}):	105.0	0.875
(D_{75} / D_{25}):	1.278	1.140
(D_{75} - D_{25}):	37.72	0.354

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.0%	COARSE SAND:	1.2%
SAND:	92.6%	MEDIUM SAND:	5.6%
MUD:	7.4%	FINE SAND:	83.8%
		V FINE SAND:	1.1%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.9%
COARSE GRAVEL:	0.0%	COARSE SILT:	1.0%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	2.1%
FINE GRAVEL:	0.0%	FINE SILT:	1.8%
V FINE GRAVEL:	0.0%	V FINE SILT:	1.0%
V COARSE SAND:	0.8%	CLAY:	0.6%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	175.9	135.7	2.882	155.2	2.688	Fine Sand
SORTING (σ):	149.6	2.429	1.280	1.773	0.826	Moderately Sorted
SKEWNESS (Sk):	7.700	-2.794	2.794	-0.215	0.215	Fine Skewed
KURTOSIS (K):	98.25	13.39	13.39	5.289	5.289	Extremely Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_107**

ANALYST & DATE: corrine.abel, 12/6/2012

SAMPLE TYPE: Unimodal, Well Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Fine Gravelly Fine Sand

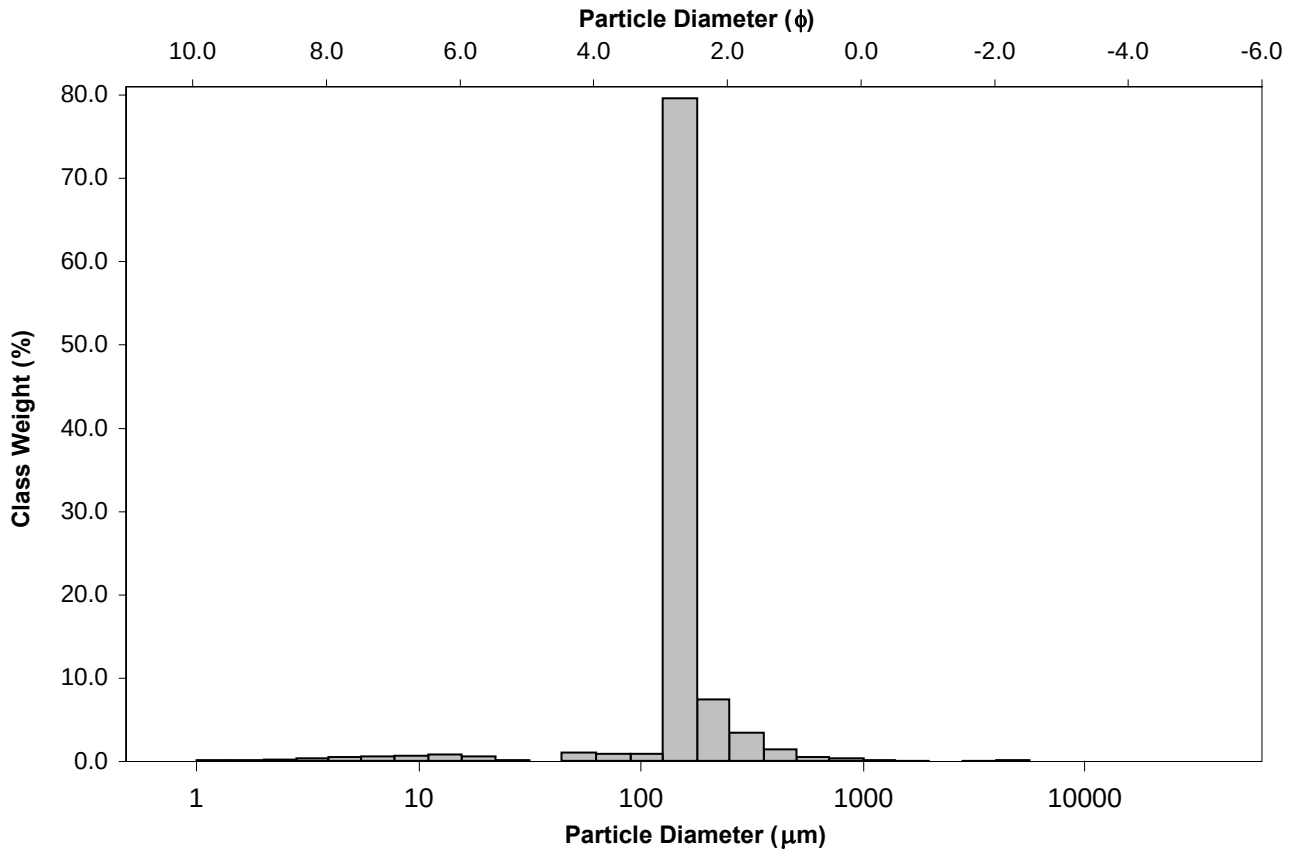
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	127.0	2.298
MEDIAN or D_{50}:	152.0	2.718
D_{90}:	203.3	2.978
(D_{90} / D_{10}):	1.602	1.296
(D_{90} - D_{10}):	76.37	0.679
(D_{75} / D_{25}):	1.253	1.127
(D_{75} - D_{25}):	34.32	0.325

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.1%	COARSE SAND:	0.8%
SAND:	95.0%	MEDIUM SAND:	4.7%
MUD:	4.9%	FINE SAND:	87.7%
		V FINE SAND:	1.6%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	1.0%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.6%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	1.4%
FINE GRAVEL:	0.1%	FINE SILT:	1.0%
V FINE GRAVEL:	0.0%	V FINE SILT:	0.6%
V COARSE SAND:	0.1%	CLAY:	0.3%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	168.3	141.3	2.823	152.0	2.718	Fine Sand
SORTING (σ):	161.5	1.993	0.995	1.340	0.422	Well Sorted
SKEWNESS (Sk):	20.24	-3.541	3.541	-0.098	0.098	Symmetrical
KURTOSIS (K):	535.2	21.59	21.59	2.596	2.596	Very Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_109**

ANALYST & DATE: corrine.abel, 12/7/2012

SAMPLE TYPE: Unimodal, Well Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Fine Gravelly Fine Sand

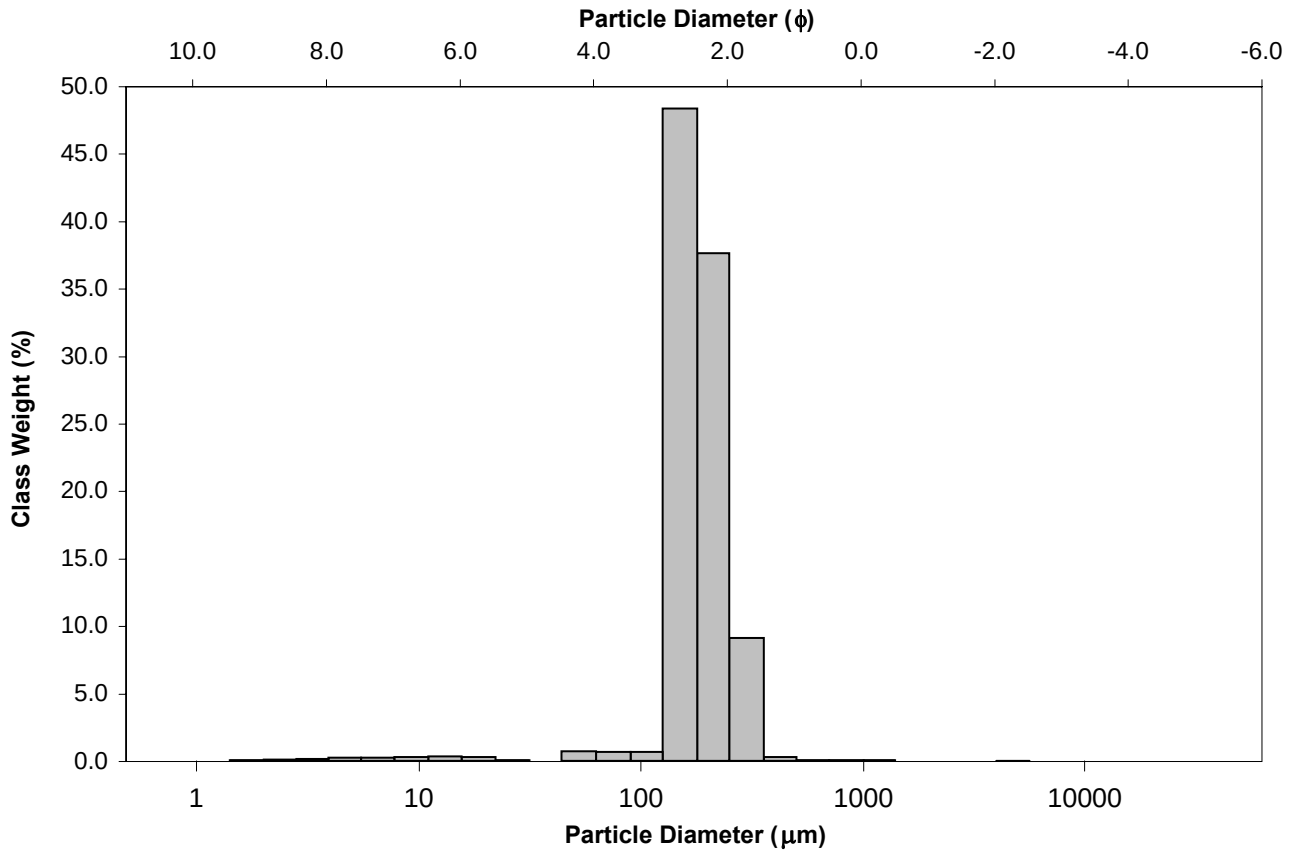
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	130.6	2.003
MEDIAN or D_{50}:	174.0	2.522
D_{90}:	249.4	2.937
(D_{90} / D_{10}):	1.910	1.466
(D_{90} - D_{10}):	118.8	0.934
(D_{75} / D_{25}):	1.493	1.262
(D_{75} - D_{25}):	71.72	0.578

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.0%	COARSE SAND:	0.2%
SAND:	97.4%	MEDIUM SAND:	9.5%
MUD:	2.6%	FINE SAND:	86.3%
		V FINE SAND:	1.3%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.7%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.3%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	0.7%
FINE GRAVEL:	0.0%	FINE SILT:	0.5%
V FINE GRAVEL:	0.0%	V FINE SILT:	0.3%
V COARSE SAND:	0.1%	CLAY:	0.1%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	188.1	169.8	2.558	177.6	2.494	Fine Sand
SORTING (σ):	102.2	1.684	0.752	1.308	0.387	Well Sorted
SKEWNESS (Sk):	27.60	-4.383	4.383	0.182	-0.182	Coarse Skewed
KURTOSIS (K):	1212.7	32.21	32.21	0.886	0.886	Platykurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_111**

ANALYST & DATE: corrine.abel, 12/7/2012

SAMPLE TYPE: Unimodal, Poorly Sorted

TEXTURAL GROUP: Gravelly Sand

SEDIMENT NAME: Medium Gravelly Fine Sand

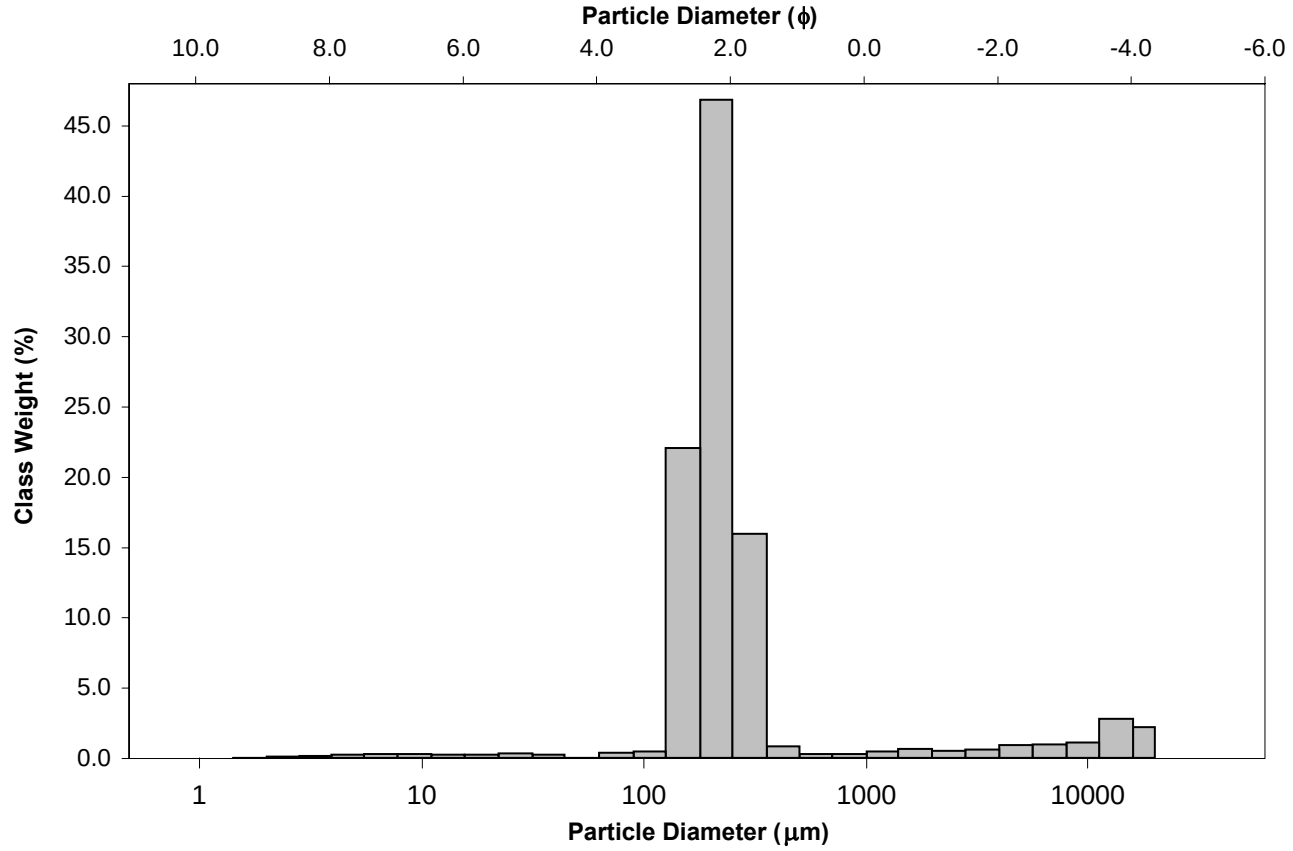
	μm	ϕ
MODE 1:	215.0	2.237
MODE 2:		
MODE 3:		
D_{10}:	138.8	0.554
MEDIAN or D_{50}:	212.7	2.233
D_{90}:	681.2	2.849
(D_{90} / D_{10}):	4.907	5.143
(D_{90} - D_{10}):	542.4	2.295
(D_{75} / D_{25}):	1.514	1.312
(D_{75} - D_{25}):	89.75	0.598

GRAIN SIZE DISTRIBUTION

GRAVEL:	8.6%	COARSE SAND:	0.6%
SAND:	89.1%	MEDIUM SAND:	17.4%
MUD:	2.3%	FINE SAND:	69.2%
		V FINE SAND:	0.9%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.3%
COARSE GRAVEL:	1.5%	COARSE SILT:	0.6%
MEDIUM GRAVEL:	4.0%	MEDIUM SILT:	0.6%
FINE GRAVEL:	1.9%	FINE SILT:	0.6%
V FINE GRAVEL:	1.1%	V FINE SILT:	0.3%
V COARSE SAND:	1.1%	CLAY:	0.0%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	1123.2	273.2	1.872	218.0	2.197	Fine Sand
SORTING (σ):	3279.3	3.407	1.768	2.303	1.204	Poorly Sorted
SKEWNESS (Sk):	3.840	1.643	-1.643	0.432	-0.432	Very Coarse Skewed
KURTOSIS (K):	16.97	8.278	8.278	4.232	4.232	Extremely Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_112**

ANALYST & DATE: corrine.abel, 12/7/2012

SAMPLE TYPE: Unimodal, Well Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Fine Gravelly Fine Sand

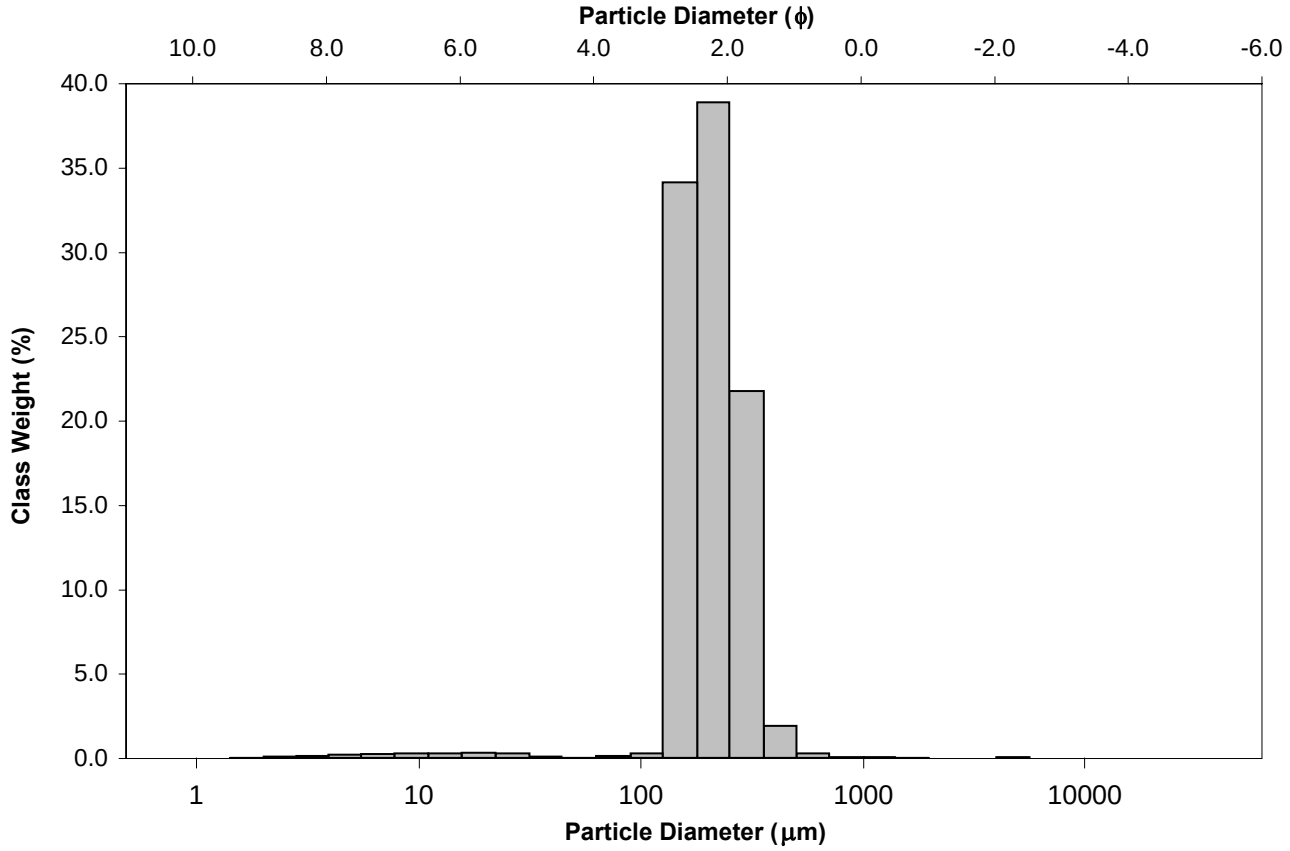
	μm	ϕ
MODE 1:	215.0	2.237
MODE 2:		
MODE 3:		
D_{10}:	134.9	1.670
MEDIAN or D_{50}:	199.3	2.327
D_{90}:	314.4	2.890
(D_{90} / D_{10}):	2.330	1.731
(D_{90} - D_{10}):	179.5	1.220
(D_{75} / D_{25}):	1.584	1.331
(D_{75} - D_{25}):	91.73	0.664

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.0%	COARSE SAND:	0.4%
SAND:	97.9%	MEDIUM SAND:	24.0%
MUD:	2.0%	FINE SAND:	73.1%
		V FINE SAND:	0.4%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.1%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.6%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	0.6%
FINE GRAVEL:	0.0%	FINE SILT:	0.5%
V FINE GRAVEL:	0.0%	V FINE SILT:	0.2%
V COARSE SAND:	0.1%	CLAY:	0.0%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	215.3	192.9	2.374	201.3	2.312	Fine Sand
SORTING (σ):	119.0	1.692	0.759	1.378	0.462	Well Sorted
SKEWNESS (Sk):	21.48	-3.848	3.848	0.071	-0.071	Symmetrical
KURTOSIS (K):	795.2	28.19	28.19	0.869	0.869	Platykurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_113**

ANALYST & DATE: corrine.abel, 12/7/2012

SAMPLE TYPE: Unimodal, Well Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Medium Gravelly Fine Sand

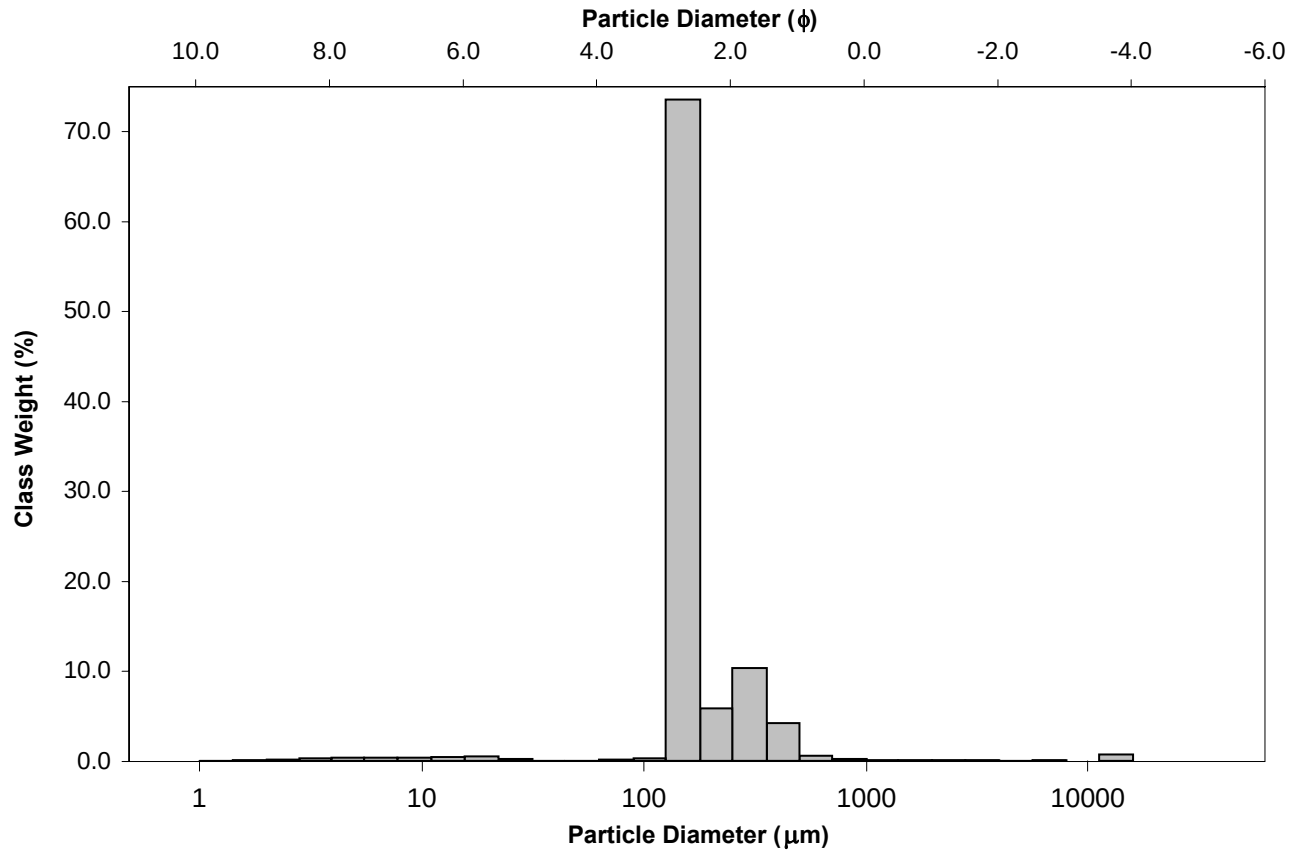
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	129.0	1.693
MEDIAN or D_{50}:	156.8	2.673
D_{90}:	309.2	2.954
(D_{90} / D_{10}):	2.396	1.745
(D_{90} - D_{10}):	180.2	1.261
(D_{75} / D_{25}):	1.275	1.141
(D_{75} - D_{25}):	38.23	0.351

GRAIN SIZE DISTRIBUTION

GRAVEL:	1.0%	COARSE SAND:	0.9%
SAND:	96.0%	MEDIUM SAND:	14.2%
MUD:	3.0%	FINE SAND:	80.4%
		V FINE SAND:	0.5%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.0%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.8%
MEDIUM GRAVEL:	0.7%	MEDIUM SILT:	0.8%
FINE GRAVEL:	0.1%	FINE SILT:	0.8%
V FINE GRAVEL:	0.1%	V FINE SILT:	0.5%
V COARSE SAND:	0.1%	CLAY:	0.1%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	290.2	165.3	2.597	173.7	2.525	Fine Sand
SORTING (σ):	1153.8	2.108	1.076	1.390	0.475	Well Sorted
SKEWNESS (Sk):	11.11	-0.488	0.488	0.545	-0.545	Very Coarse Skewed
KURTOSIS (K):	127.1	21.16	21.16	1.887	1.887	Very Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_114**

ANALYST & DATE: corrine.abel, 12/7/2012

SAMPLE TYPE: Unimodal, Very Well Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Fine Gravelly Fine Sand

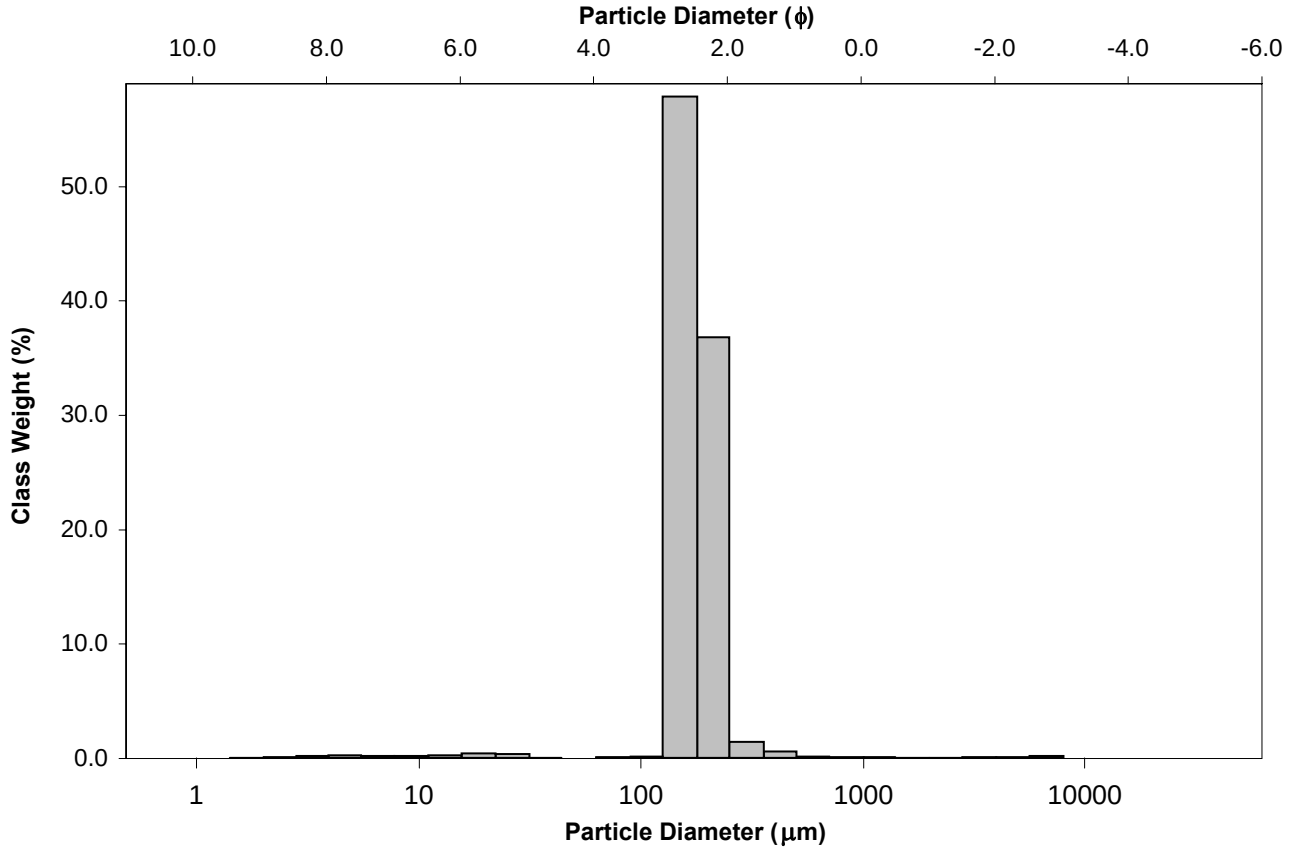
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	131.0	2.100
MEDIAN or D_{50}:	166.7	2.585
D_{90}:	233.3	2.933
(D_{90} / D_{10}):	1.781	1.397
(D_{90} - D_{10}):	102.3	0.833
(D_{75} / D_{25}):	1.411	1.215
(D_{75} - D_{25}):	58.93	0.497

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.4%	COARSE SAND:	0.3%
SAND:	97.6%	MEDIUM SAND:	2.0%
MUD:	2.1%	FINE SAND:	95.0%
		V FINE SAND:	0.2%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.0%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.8%
MEDIUM GRAVEL:	0.0%	MEDIUM SILT:	0.5%
FINE GRAVEL:	0.3%	FINE SILT:	0.5%
V FINE GRAVEL:	0.1%	V FINE SILT:	0.3%
V COARSE SAND:	0.1%	CLAY:	0.0%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	196.9	165.4	2.596	170.9	2.549	Fine Sand
SORTING (σ):	338.3	1.670	0.740	1.246	0.318	Very Well Sorted
SKEWNESS (Sk):	17.03	-2.727	2.727	0.161	-0.161	Coarse Skewed
KURTOSIS (K):	311.2	35.13	35.13	0.780	0.780	Platykurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_115**

ANALYST & DATE: corrine.abel, 12/7/2012

SAMPLE TYPE: Trimodal, Very Poorly Sorted

TEXTURAL GROUP: Sandy Gravel

SEDIMENT NAME: Sandy Coarse Gravel

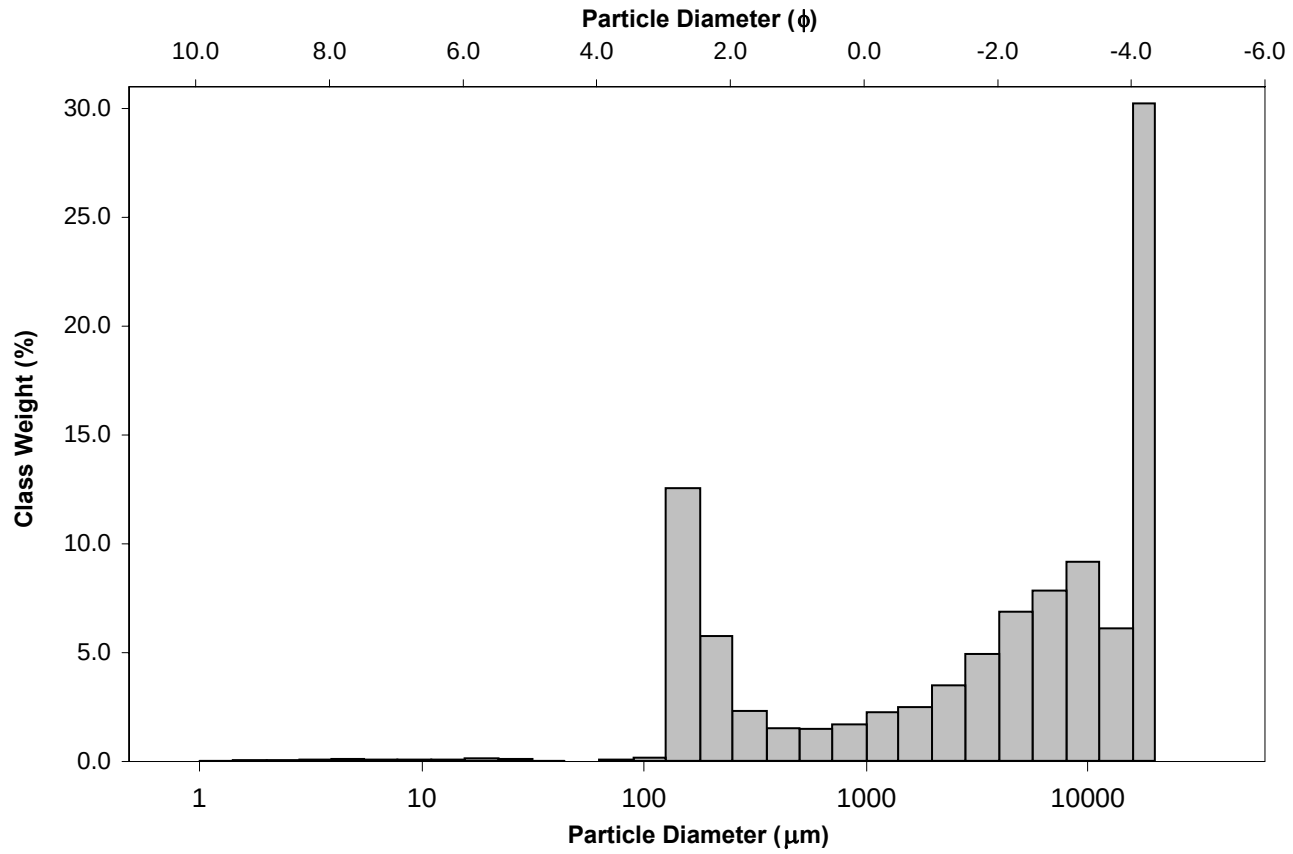
	μm	ϕ
MODE 1:	18000.0	-4.161
MODE 2:	152.5	2.737
MODE 3:	9600.0	-3.243
D_{10}:	155.5	-4.174
MEDIAN or D_{50}:	5079.6	-2.345
D_{90}:	18055.8	2.685
(D_{90} / D_{10}):	116.1	-0.643
(D_{90} - D_{10}):	17900.2	6.859
(D_{75} / D_{25}):	35.80	-0.370
(D_{75} - D_{25}):	13237.5	5.162

GRAIN SIZE DISTRIBUTION

GRAVEL:	64.8%	COARSE SAND:	3.6%
SAND:	34.4%	MEDIUM SAND:	4.3%
MUD:	0.8%	FINE SAND:	20.9%
		V FINE SAND:	0.3%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.0%
COARSE GRAVEL:	21.8%	COARSE SILT:	0.3%
MEDIUM GRAVEL:	17.0%	MEDIUM SILT:	0.2%
FINE GRAVEL:	16.5%	FINE SILT:	0.2%
V FINE GRAVEL:	9.5%	V FINE SILT:	0.1%
V COARSE SAND:	5.3%	CLAY:	0.0%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	7252.1	2619.7	-1.389	2497.9	-1.321	Very Fine Gravel
SORTING (σ):	6870.8	6.386	2.675	6.570	2.716	Very Poorly Sorted
SKEWNESS (Sk):	0.520	-0.711	0.711	-0.467	0.467	Very Fine Skewed
KURTOSIS (K):	1.725	2.335	2.335	0.565	0.565	Very Platykurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_116**

ANALYST & DATE: corrine.abel, 12/7/2012

SAMPLE TYPE: Unimodal, Very Well Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Fine Gravelly Fine Sand

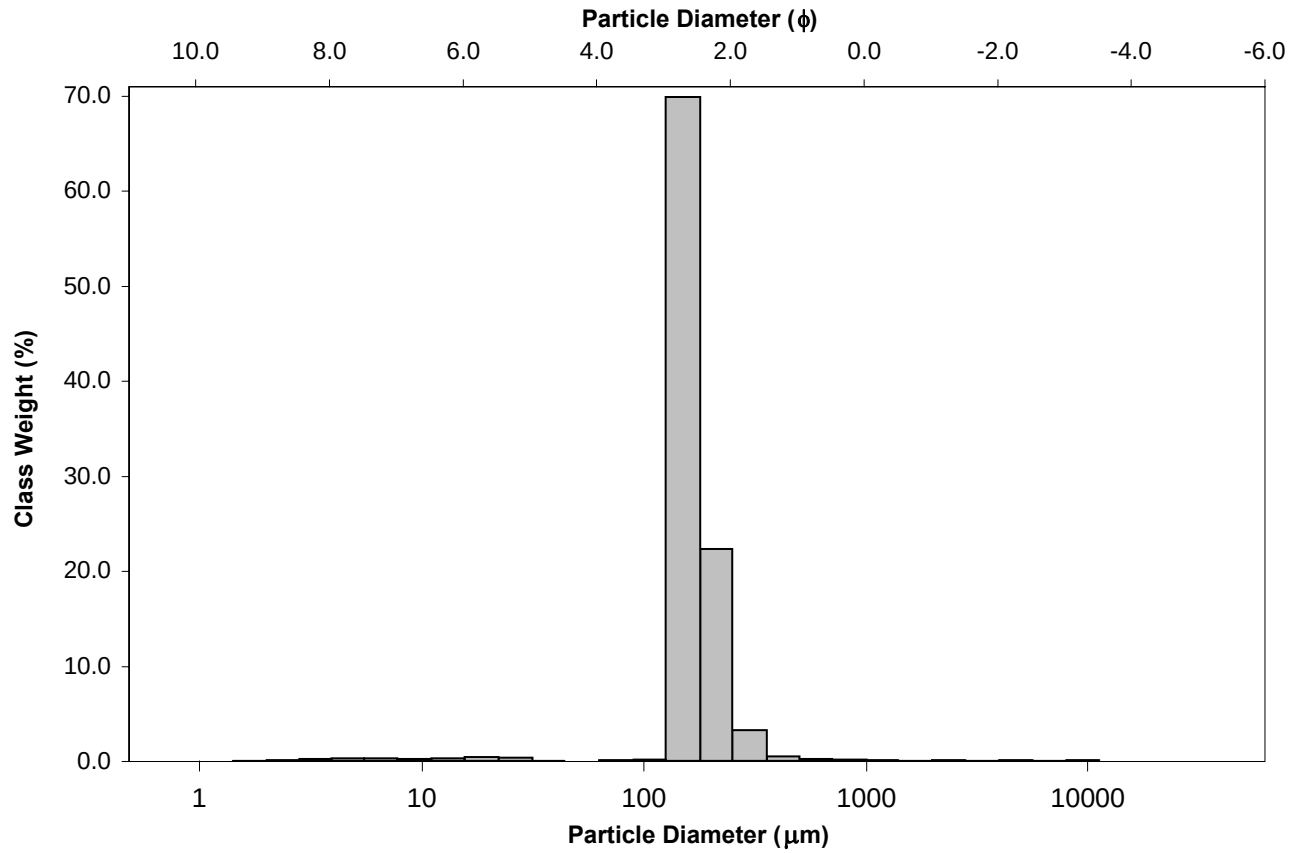
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	129.7	2.123
MEDIAN or D_{50}:	158.9	2.654
D_{90}:	229.6	2.946
(D_{90} / D_{10}):	1.769	1.388
(D_{90} - D_{10}):	99.83	0.823
(D_{75} / D_{25}):	1.293	1.150
(D_{75} - D_{25}):	40.97	0.370

GRAIN SIZE DISTRIBUTION

GRAVEL:	0.4%	COARSE SAND:	0.4%
SAND:	97.3%	MEDIUM SAND:	3.7%
MUD:	2.4%	FINE SAND:	92.7%
		V FINE SAND:	0.3%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.0%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.8%
MEDIUM GRAVEL:	0.1%	MEDIUM SILT:	0.6%
FINE GRAVEL:	0.2%	FINE SILT:	0.6%
V FINE GRAVEL:	0.1%	V FINE SILT:	0.3%
V COARSE SAND:	0.2%	CLAY:	0.0%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	192.2	158.4	2.658	164.3	2.606	Fine Sand
SORTING (σ):	374.6	1.725	0.786	1.238	0.308	Very Well Sorted
SKEWNESS (Sk):	19.82	-2.716	2.716	0.276	-0.276	Coarse Skewed
KURTOSIS (K):	441.6	31.94	31.94	1.078	1.078	Mesokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_118**

ANALYST & DATE: corrine.abel, 12/7/2012

SAMPLE TYPE: Unimodal, Poorly Sorted

TEXTURAL GROUP: Gravelly Sand

SEDIMENT NAME: Medium Gravelly Fine Sand

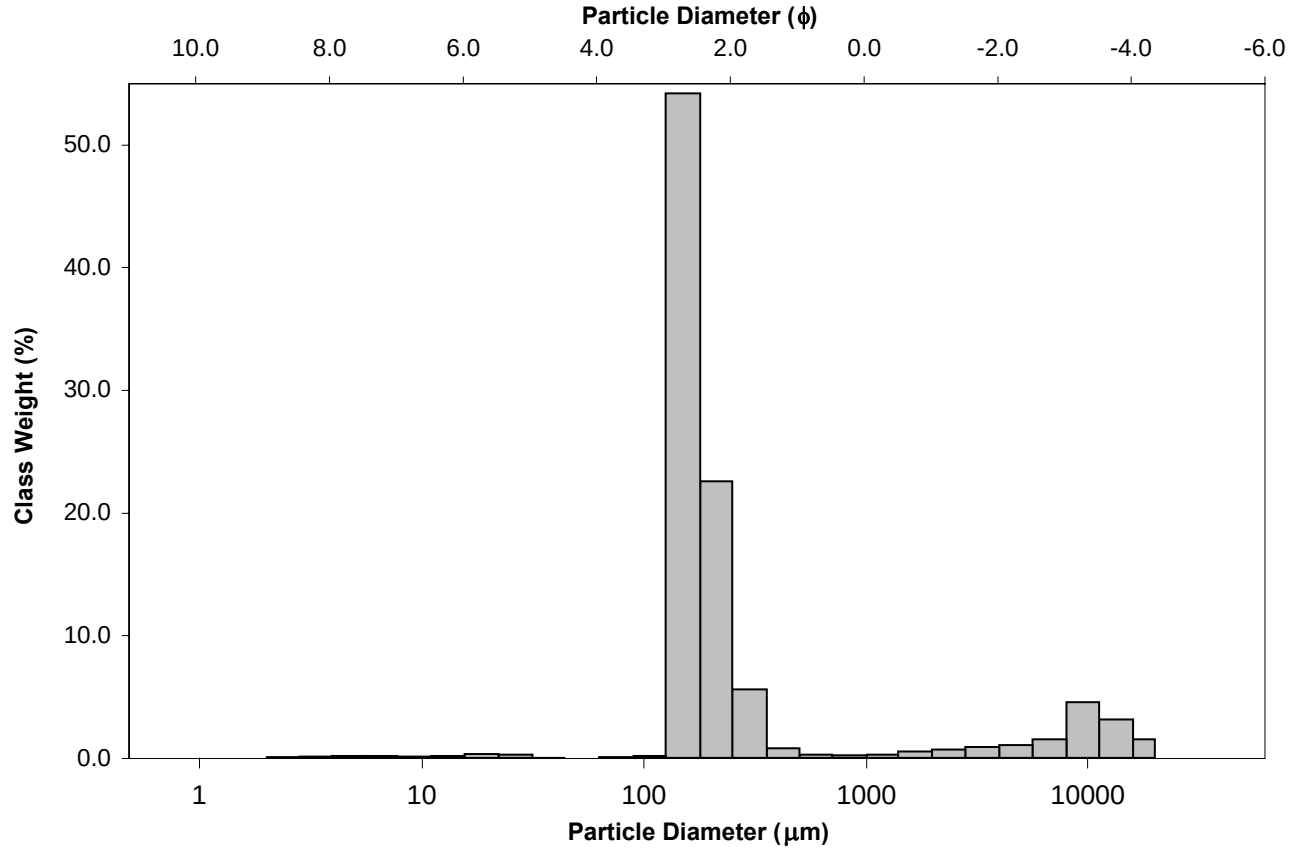
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	131.8	-2.523
MEDIAN or D_{50}:	170.6	2.552
D_{90}:	5747.8	2.923
(D_{90} / D_{10}):	43.60	-1.159
(D_{90} - D_{10}):	5615.9	5.446
(D_{75} / D_{25}):	1.604	1.324
(D_{75} - D_{25}):	87.73	0.682

GRAIN SIZE DISTRIBUTION

GRAVEL:	12.7%	COARSE SAND:	0.5%
SAND:	85.8%	MEDIUM SAND:	6.4%
MUD:	1.5%	FINE SAND:	77.8%
		V FINE SAND:	0.3%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.0%
COARSE GRAVEL:	1.0%	COARSE SILT:	0.6%
MEDIUM GRAVEL:	7.6%	MEDIUM SILT:	0.3%
FINE GRAVEL:	2.6%	FINE SILT:	0.3%
V FINE GRAVEL:	1.6%	V FINE SILT:	0.2%
V COARSE SAND:	0.8%	CLAY:	0.0%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	1401.3	278.6	1.844	197.3	2.341	Fine Sand
SORTING (σ):	3504.5	4.038	2.014	2.429	1.280	Poorly Sorted
SKEWNESS (Sk):	2.967	1.740	-1.740	0.684	-0.684	Very Coarse Skewed
KURTOSIS (K):	10.97	5.795	5.795	3.825	3.825	Extremely Leptokurtic

GRAIN SIZE DISTRIBUTION



SAMPLE STATISTICS

SAMPLE IDENTITY: **TCC_GRAB_120**

ANALYST & DATE: corrine.abel, 12/7/2012

SAMPLE TYPE: Unimodal, Very Well Sorted

TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Medium Gravelly Fine Sand

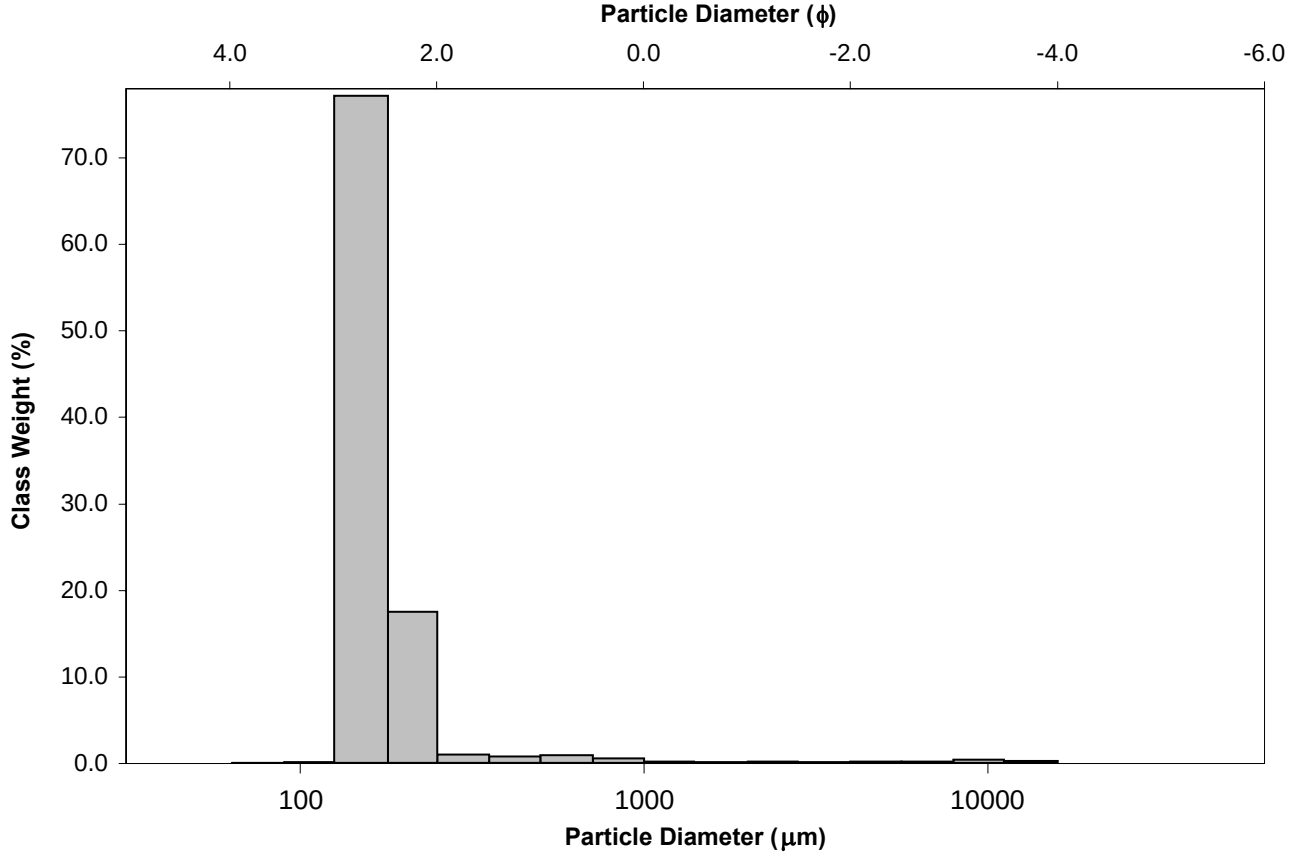
	μm	ϕ
MODE 1:	152.5	2.737
MODE 2:		
MODE 3:		
D_{10}:	130.0	2.163
MEDIAN or D_{50}:	156.8	2.673
D_{90}:	223.3	2.943
(D_{90} / D_{10}):	1.718	1.361
(D_{90} - D_{10}):	93.28	0.780
(D_{75} / D_{25}):	1.264	1.135
(D_{75} - D_{25}):	36.76	0.338

GRAIN SIZE DISTRIBUTION

GRAVEL:	1.3%	COARSE SAND:	1.4%
SAND:	97.3%	MEDIUM SAND:	1.6%
MUD:	1.4%	FINE SAND:	93.9%
		V FINE SAND:	0.2%
V COARSE GRAVEL:	0.0%	V COARSE SILT:	0.2%
COARSE GRAVEL:	0.0%	COARSE SILT:	0.2%
MEDIUM GRAVEL:	0.7%	MEDIUM SILT:	0.2%
FINE GRAVEL:	0.3%	FINE SILT:	0.2%
V FINE GRAVEL:	0.3%	V FINE SILT:	0.2%
V COARSE SAND:	0.3%	CLAY:	0.2%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	275.6	165.9	2.591	160.5	2.639	Fine Sand
SORTING (σ):	989.1	1.856	0.893	1.219	0.286	Very Well Sorted
SKEWNESS (Sk):	10.77	1.563	-1.563	0.276	-0.276	Coarse Skewed
KURTOSIS (K):	126.3	28.36	28.36	1.169	1.169	Leptokurtic

GRAIN SIZE DISTRIBUTION



APPENDIX D – CONTAMINANT ANALYSIS

Tranche B

Table D.1 **Hydrocarbons Results and Comparison to the ERL and ERM – Long *et al*., 1995.**
Table D.2 **Hydrocarbons Results and Comparison to the ISQG and PEL – CCME, 1999.**
Table D.3 **Metals, Metalloids and Non-Metals Results and Comparison to the ERL and ERM – Long *et al*., 1995.**
Table D.4 **Metals, Metalloids and Non-Metals Results and Comparison to the AL1 and AL2 – CEFAS, 2003**
Table D.5 **Metals, Metalloids and Non-Metals Results and Comparison to the ISQG and PEL – CCME, 1999**
Table D.6 **PCB Results and Comparison to the AL1 and AL2 – CEFAS, 2003**
Table D.7 **Organotins Results**

Teesside Cable Corridor

Table D.8 **Hydrocarbons Results and Comparison to the ERL and ERM – Long *et al*., 1995.**
Table D.9 **Hydrocarbons Results and Comparison to the ISQG and PEL – CCME, 1999.**
Table D.10 **Metals, Metalloids and Non-Metals Results and Comparison to the ERL and ERM – Long *et al*., 1995.**
Table D.11 **Metals, Metalloids and Non-Metals Results and Comparison to the AL1 and AL2 – CEFAS, 2003**
Table D.12 **Metals, Metalloids and Non-Metals Results and Comparison to the ISQG and PEL – CCME, 1999**
Table D.13 **PCB Results and Comparison to the AL1 and AL2 – CEFAS, 2003**
Table D.14 **Organotins Results**

APPENDIX D – CONTAMINANT ANALYSIS

Tranche B

Table D.1 **Hydrocarbons Results and Comparison to the ERL and ERM - Long *et al.*, 1995.**

Unless specified, concentrations in µg/kg	TB - CHEM - 1	TB - CHEM - 4	TB - CHEM - 6	TB - CHEM - 10	TB - CHEM - 13	TB - CHEM - 17	TB - CHEM - 19	TB - CHEM - 25	TB - CHEM - 33	TB - CHEM - 36	TB - CHEM - 40	*Effect Range Low (ERL)*	*Effect Range Median (ERM)*
Benzo(b)anthracene : Dry Wt	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
Benzo(e)pyrene : Dry Wt	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
Benzo(j)fluoranthene : Dry Wt	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
C1 Chrysene : Dry Wt	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
C1 Dibenzothiophene : Dry Wt	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
C1 Fluoanthene : Dry Wt	<10	<10	<10	<10	<10	12.9	<10	<10	<10	<10	<10		
C1 Fluorene : Dry Wt	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
C1 Naphthalene : Dry Wt	63	<10	<10	74.6	19.2	38.1	<10	<10	<10	<10	<10		
C1 Phenanthrene : Dry Wt	<10	<10	<10	<10	<10	22.2	<10	<10	<10	<10	<10		
C2 Chrysene : Dry Wt	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
C2 Dibenzothiophene : Dry Wt	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
C2 Fluorene : Dry Wt	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
C2 Naphthalene : Dry Wt	66.5	<10	<10	81	<10	53.8	<10	<10	<10	<10	<10		
C2 Phenanthrene : Dry Wt	<10	<10	<10	<10	<10	29.4	<10	<10	<10	<10	<10		
C3 Chrysene : Dry Wt	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
C3 Dibenzothiophene : Dry Wt	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
C3 Fluorene : Dry Wt	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
C3 Naphthalene : Dry Wt	61.2	<10	<10	97.4	<10	104	<10	<10	<10	<10	<10		
C3 Phenanthrene : Dry Wt	<10	<10	<10	<10	<10	24.9	<10	<10	<10	<10	<10		
C4 Chrysene : Dry Wt	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
C4 Naphthalene : Dry Wt	14.2	<10	<10	24	<10	44.4	<10	<10	<10	<10	<10		
C4 Phenanthrene : Dry Wt	<10	<10	<10	<10	<10	20.3	<10	<10	<10	<10	<10		
Dibenzothiophene : Dry Wt	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
Perylene : Dry Wt	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
Acenaphthene : Dry Wt	<2	<2	<2	2.2	<2	2.35	<2	<2	<2	<2	<2	16	500
Acenaphthylene : Dry Wt	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	44	640
Anthracene : Dry Wt	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	85.3	1100
Benzo(a)anthracene : Dry Wt	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	261	1600
Benzo(a)pyrene : Dry Wt	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	430	1600
Benzo(b)fluoranthene : Dry Wt	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
Benzo(ghi)perylene : Dry Wt	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
Benzo(k)fluoranthene : Dry Wt	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
Chrysene + Triphenylene : Dry Wt	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3		
Dibenzo(ah)anthracene : Dry Wt	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	63.4	260
Fluoranthene : Dry Wt	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	600	5100
Fluorene : Dry Wt	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	19	540
Indeno(1,2,3-c,d)pyrene : Dry Wt	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
Naphthalene : Dry Wt	61.5	<30	<30	69.6	<30	41	<30	<30	<30	<30	<30	160	2100
Phenanthrene : Dry Wt	<10	<10	<10	<10	<10	10.5	<10	<10	<10	<10	<10	240	1500
Pyrene : Dry Wt	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	665	2600
PAH : Total : Dry Wt : mg/kg	<0.132	<0.100	<0.100	<0.140	<0.100	<0.112	<0.100	<0.100	<0.100	<0.100	<0.100		
Total Hydrocarbons: Dry Wt: mg/kg	0.12	0.25	0.38	0.13	0.22	0.48	0.93	0.5	0.53	0.79	0.1		

APPENDIX D – CONTAMINANT ANALYSIS

Tranche B

Table D.2 **Hydrocarbons Results and Comparison to the ISQG and PEL - CCME, 1999.**

Unless specified, concentrations in µg/kg	TB - CHEM - 1	TB - CHEM - 4	TB - CHEM - 6	TB - CHEM - 10	TB - CHEM - 13	TB - CHEM - 17	TB - CHEM - 19	TB - CHEM - 25	TB - CHEM - 33	TB - CHEM - 36	TB - CHEM - 40	*ISQG*	*PEL*
Benzo(b)anthracene : Dry Wt	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
Benzo(e)pyrene : Dry Wt	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
Benzo(j)fluoranthene : Dry Wt	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
C1 Chrysene : Dry Wt	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
C1 Dibenzothiophene : Dry Wt	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
C1 Fluoanthene : Dry Wt	<10	<10	<10	<10	<10	12.9	<10	<10	<10	<10	<10		
C1 Fluorene : Dry Wt	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
C1 Naphthalene : Dry Wt	63	<10	<10	74.6	19.2	38.1	<10	<10	<10	<10	<10		
C1 Phenanthrene : Dry Wt	<10	<10	<10	<10	<10	22.2	<10	<10	<10	<10	<10		
C2 Chrysene : Dry Wt	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
C2 Dibenzothiophene : Dry Wt	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
C2 Fluorene : Dry Wt	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
C2 Naphthalene : Dry Wt	66.5	<10	<10	81	<10	53.8	<10	<10	<10	<10	<10		
C2 Phenanthrene : Dry Wt	<10	<10	<10	<10	<10	29.4	<10	<10	<10	<10	<10		
C3 Chrysene : Dry Wt	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
C3 Dibenzothiophene : Dry Wt	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
C3 Fluorene : Dry Wt	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
C3 Naphthalene : Dry Wt	61.2	<10	<10	97.4	<10	104	<10	<10	<10	<10	<10		
C3 Phenanthrene : Dry Wt	<10	<10	<10	<10	<10	24.9	<10	<10	<10	<10	<10		
C4 Chrysene : Dry Wt	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
C4 Naphthalene : Dry Wt	14.2	<10	<10	24	<10	44.4	<10	<10	<10	<10	<10		
C4 Phenanthrene : Dry Wt	<10	<10	<10	<10	<10	20.3	<10	<10	<10	<10	<10		
Dibenzothiophene : Dry Wt	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
Perylene : Dry Wt	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
Acenaphthene : Dry Wt	<2	<2	<2	2.2	<2	2.35	<2	<2	<2	<2	<2	6.71	88.9
Acenaphthylene : Dry Wt	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	5.87	128
Anthracene : Dry Wt	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	46.9	245
Benzo(a)anthracene : Dry Wt	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2		
Benzo(a)pyrene : Dry Wt	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	88.8	763
Benzo(b)fluoranthene : Dry Wt	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
Benzo(ghi)perylene : Dry Wt	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
Benzo(k)fluoranthene : Dry Wt	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
Chrysene + Triphenylene : Dry Wt	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3		
Dibenzo(ah)anthracene : Dry Wt	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	6.22	135
Fluoranthene : Dry Wt	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	113	1494
Fluorene : Dry Wt	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	21.2	144
Indeno(1,2,3-c,d)pyrene : Dry Wt	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
Naphthalene : Dry Wt	61.5	<30	<30	69.6	<30	41	<30	<30	<30	<30	<30	34.6	391
Phenanthrene : Dry Wt	<10	<10	<10	<10	<10	10.5	<10	<10	<10	<10	<10	86.7	544
Pyrene : Dry Wt	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	153	1398
PAH : Total : Dry Wt : mg/kg	<0.132	<0.100	<0.100	<0.140	<0.100	<0.112	<0.100	<0.100	<0.100	<0.100	<0.100		
Total Hydrocarbons: Dry Wt: mg/kg	0.12	0.25	0.38	0.13	0.22	0.48	0.93	0.5	0.53	0.79	0.1		

APPENDIX D – CONTAMINANT ANALYSIS

Tranche B

Table D.3 **Metals, Metalloids and Non-Metals Results and Comparison to the ERL and ERM - Long *et al.*, 1995.**

Unless specified, concentrations in mg/kg	TB - CHEM - 1	TB - CHEM - 4	TB - CHEM - 6	TB - CHEM - 10	TB - CHEM - 13	TB - CHEM - 17	TB - CHEM - 19	TB - CHEM - 25	TB - CHEM - 33	TB - CHEM - 36	TB - CHEM - 40	*Effect Range Low (ERL)*	*Effect Range Median (ERM)*
Aluminium, HF Digest : Dry Wt	16000	13600	12100	12900	12500	19200	16100	14700	14100	14800	12900		
Barium, HF Digest : Dry Wt	192	170	137	155	164	190	191	157	188	170	175		
Iron, HF Digest : Dry Wt	10500	10200	5040	7440	3780	18700	10500	5920	5350	9820	3680		
Arsenic, HF Digest : Dry Wt	2.65	2.5	2.59	2.7	2.28	5.31	2.3	2.79	3.04	2.22	2.57	8.2	70
Cadmium, HF Digest : Dry Wt	<0.03	<0.03	<0.03	<0.03	<0.03	0.071	<0.03	<0.03	<0.03	<0.03	<0.03	1.2	9.6
Chromium, HF Digest : Dry Wt	15.1	22.4	11.2	25	15.1	112	13.5	10	13.9	21.3	11	81	370
Copper, HF Digest : Dry Wt	4.24	6.06	3.73	5.18	3.15	160	4.47	4.13	2.64	3.27	2.74	34	270
Lead, HF Digest : Dry Wt	6.97	7.28	7.21	7.03	6.57	12.3	8.67	12.6	6.99	9.19	7.05	46.7	218
Lithium, HF Digest : Dry Wt	4.43	4.44	4.38	5.07	4.69	6.85	4.73	5.06	5.84	5.12	4.96		
Manganese, HF Digest : Dry Wt	197	455	175	244	138	665	432	164	103	324	119		
Mercury	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.15	0.71
Nickel, HF Digest : Dry Wt	2.79	7.44	3.21	7.84	2.85	52.4	2.37	4.57	5.82	3.72	3.63	20.9	51.6
Tin, HF Digest : Dry Wt	<0.5	0.54	0.53	<0.5	<0.5	1.24	0.78	<0.5	<0.5	<0.5	<0.5		
Vanadium, HF Digest : Dry Wt	8.8	14.8	11.4	10.5	7.98	30.6	15.4	15.5	11.1	11.5	8.4		
Zinc : HF Digest : Dry Wt	8.07	15.5	11.2	10.1	7.47	46.3	16	11.5	10.6	14.6	7.87	150	410
Boron, Boiling water soluble : Dry Wt	2.24	2.04	2.04	2.16	2.28	2.48	2.06	2.3	2.5	2.61	2.03		
Selenium : Dry Wt	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		

Table D.4 **Metals, Metalloids and Non-Metals Results and Comparison to the AL1 and AL2 - CEFAS, 2003.**

Unless specified, concentrations in mg/kg	TB - CHEM - 1	TB - CHEM - 4	TB - CHEM - 6	TB - CHEM - 10	TB - CHEM - 13	TB - CHEM - 17	TB - CHEM - 19	TB - CHEM - 25	TB - CHEM - 33	TB - CHEM - 36	TB - CHEM - 40	*Action Level 1*	*Action Level 2*
Aluminium, HF Digest : Dry Wt	16000	13600	12100	12900	12500	19200	16100	14700	14100	14800	12900		
Barium, HF Digest : Dry Wt	192	170	137	155	164	190	191	157	188	170	175		
Iron, HF Digest : Dry Wt	10500	10200	5040	7440	3780	18700	10500	5920	5350	9820	3680		
Arsenic, HF Digest : Dry Wt	2.65	2.5	2.59	2.7	2.28	5.31	2.3	2.79	3.04	2.22	2.57	20	100
Cadmium, HF Digest : Dry Wt	<0.03	<0.03	<0.03	<0.03	<0.03	0.071	<0.03	<0.03	<0.03	<0.03	<0.03	0.4	5
Chromium, HF Digest : Dry Wt	15.1	22.4	11.2	25	15.1	112	13.5	10	13.9	21.3	11	40	400
Copper, HF Digest : Dry Wt	4.24	6.06	3.73	5.18	3.15	160	4.47	4.13	2.64	3.27	2.74	40	400
Lead, HF Digest : Dry Wt	6.97	7.28	7.21	7.03	6.57	12.3	8.67	12.6	6.99	9.19	7.05	50	500
Lithium, HF Digest : Dry Wt	4.43	4.44	4.38	5.07	4.69	6.85	4.73	5.06	5.84	5.12	4.96		
Manganese, HF Digest : Dry Wt	197	455	175	244	138	665	432	164	103	324	119		
Mercury	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.3	3
Nickel, HF Digest : Dry Wt	2.79	7.44	3.21	7.84	2.85	52.4	2.37	4.57	5.82	3.72	3.63	20	200
Tin, HF Digest : Dry Wt	<0.5	0.54	0.53	<0.5	<0.5	1.24	0.78	<0.5	<0.5	<0.5	<0.5		
Vanadium, HF Digest : Dry Wt	8.8	14.8	11.4	10.5	7.98	30.6	15.4	15.5	11.1	11.5	8.4		
Zinc : HF Digest : Dry Wt	8.07	15.5	11.2	10.1	7.47	46.3	16	11.5	10.6	14.6	7.87	130	800
Boron, Boiling water soluble : Dry Wt	2.24	2.04	2.04	2.16	2.28	2.48	2.06	2.3	2.5	2.61	2.03		
Selenium : Dry Wt	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		

APPENDIX D – CONTAMINANT ANALYSIS

Tranche B

Table D.5 **Metals, Metalloids and Non-Metal Results and Comparison to the ISQG and PEL - CCME, 1999.**

Unless specified, concentrations in mg/kg	TB - CHEM - 1	TB - CHEM - 4	TB - CHEM - 6	TB - CHEM - 10	TB - CHEM - 13	TB - CHEM - 17	TB - CHEM - 19	TB - CHEM - 25	TB - CHEM - 33	TB - CHEM - 36	TB - CHEM - 40	ISQG	PEL
Aluminium, HF Digest : Dry Wt	16000	13600	12100	12900	12500	19200	16100	14700	14100	14800	12900		
Barium, HF Digest : Dry Wt	192	170	137	155	164	190	191	157	188	170	175		
Iron, HF Digest : Dry Wt	10500	10200	5040	7440	3780	18700	10500	5920	5350	9820	3680		
Arsenic, HF Digest : Dry Wt	2.65	2.5	2.59	2.7	2.28	5.31	2.3	2.79	3.04	2.22	2.57	7.24	41.6
Cadmium, HF Digest : Dry Wt	<0.03	<0.03	<0.03	<0.03	<0.03	0.071	<0.03	<0.03	<0.03	<0.03	<0.03	0.7	4.2
Chromium, HF Digest : Dry Wt	15.1	22.4	11.2	25	15.1	112	13.5	10	13.9	21.3	11	52.3	160
Copper, HF Digest : Dry Wt	4.24	6.06	3.73	5.18	3.15	160	4.47	4.13	2.64	3.27	2.74	18.7	108
Lead, HF Digest : Dry Wt	6.97	7.28	7.21	7.03	6.57	12.3	8.67	12.6	6.99	9.19	7.05	30.2	112
Lithium, HF Digest : Dry Wt	4.43	4.44	4.38	5.07	4.69	6.85	4.73	5.06	5.84	5.12	4.96		
Manganese, HF Digest : Dry Wt	197	455	175	244	138	665	432	164	103	324	119		
Mercury	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.13	0.7
Nickel, HF Digest : Dry Wt	2.79	7.44	3.21	7.84	2.85	52.4	2.37	4.57	5.82	3.72	3.63		
Tin, HF Digest : Dry Wt	<0.5	0.54	0.53	<0.5	<0.5	1.24	0.78	<0.5	<0.5	<0.5	<0.5		
Vanadium, HF Digest : Dry Wt	8.8	14.8	11.4	10.5	7.98	30.6	15.4	15.5	11.1	11.5	8.4		
Zinc : HF Digest : Dry Wt	8.07	15.5	11.2	10.1	7.47	46.3	16	11.5	10.6	14.6	7.87	124	271
Boron, Boiling water soluble : Dry Wt	2.24	2.04	2.04	2.16	2.28	2.48	2.06	2.3	2.5	2.61	2.03		
Selenium : Dry Wt	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		

Table D.6 **PCB Results and Comparison to the AL1 and AL2 - CEFAS, 2003.**

Unless specified, concentrations in µg/kg	TB - CHEM - 1	TB - CHEM - 4	TB - CHEM - 6	TB - CHEM - 10	TB - CHEM - 13	TB - CHEM - 17	TB - CHEM - 19	TB - CHEM - 25	TB - CHEM - 33	TB - CHEM - 36	TB - CHEM - 40	Action Level 1	Action Level 2
PCB - 028 : Dry Wt	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
PCB - 052 : Dry Wt	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
PCB - 101 : Dry Wt	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
PCB - 118 : Dry Wt	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
PCB - 138 : Dry Wt	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
PCB - 153 : Dry Wt	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
PCB - 180 : Dry Wt	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Sum	<LoD	<LoD	<LoD	<LoD	<LoD	<LoD	<LoD	<LoD	<LoD	<LoD	<LoD	10	None

Table D.7 **Organotins Results**

Unless specified, concentrations in µg/kg	TB - CHEM - 1	TB - CHEM - 4	TB - CHEM - 6	TB - CHEM - 10	TB - CHEM - 13	TB - CHEM - 17	TB - CHEM - 19	TB - CHEM - 25	TB - CHEM - 33	TB - CHEM - 36	TB - CHEM - 40
Dibutyl Tin : Dry Wt as Cation	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Dioctyl Tin : Dry Wt as Cation	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Diphenyl Tin : Dry Wt as Cation	<3	<2	<3	<3	<3	<3	<2	<3	<3	<3	<3
Tetrabutyl Tin : Dry Wt as Cation	<3	<2	<3	<3	<3	<3	<2	<3	<3	<3	<3
Tributyl Tin : Dry Wt as Cation	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Triphenyl Tin : Dry Wt as Cation	<3	<2	<3	<3	<3	<3	<2	<3	<3	<3	<3

APPENDIX D – CONTAMINANT ANALYSIS

Teesside Cable Corridor

Table D.8 **Hydrocarbons Results and Comparison to the ERL and ERM - Long*et al.*, 1995.**

Unless specified, concentrations in µg/kg	TCC - Chem - 1	TCC - Chem - 3	TCC - Chem - 5	TCC - Chem - 6	TCC - Chem - 9	TCC - Chem - 10	TCC - Chem - 12	TCC - Chem - 18	TCC - Chem - 27	TCC - Chem - 40	TCC - Chem - 48	TCC - Chem - 54	TCC - Chem - 61	TCC - Chem - 62	TCC - Chem - 64	TCC - Chem - 75	TCC - Chem - 86	TCC - Chem - 95	TCC - Chem - 102	TCC - Chem - 109	TCC - Chem - 114	*Effect Range Low (ERL)*	*Effect Range Median (ERM)*
Benzo(b)anthracene : Dry Wt	<10	<10	<10	<10	40.3	57.1	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
Benzo(e)pyrene : Dry Wt	<10	<10	<10	88.6	540	963	76	<10	<10	11.7	17.2	<10	17.3	19.7	30.2	30.3	<10	<10	<10	12.5	<10		
Benzo(j)fluoranthene : Dry Wt	<10	<10	<10	34.5	316	504	38.1	<10	<10	<10	<10	<10	<10	<10	10.5	15.6	<10	<10	<10	<10	<10		
C1 Chrysene : Dry Wt	<10	<10	<10	232	743	1140	120	<10	<10	<10	<10	<10	38	51.5	33.6	39.6	<10	<10	<10	<10	<10		
C1 Dibenzothiophene : Dry Wt	<10	<10	<10	115	392	565	40.3	<10	<10	<10	<10	<10	<10	16.5	<10	<10	<10	<10	<10	<10	<10		
C1 Fluoanthene : Dry Wt	32.9	23.3	36.8	477	1450	2270	255	30	17.4	17	32.3	<10	97.9	139	94.7	91.2	12.8	<10	<10	25	<10		
C1 Fluorene : Dry Wt	14.2	<10	<10	230	767	1020	69.1	<10	<10	<10	<10	<10	40.7	37	16.9	16.4	<10	<10	<10	<10	<10		
C1 Naphthalene : Dry Wt	151	51.7	77.5	1340	3660	4060	340	55.1	30.3	31.2	<10	<10	261	187	90	121	44.8	34.2	48.6	<10	<10		
C1 Phenanthrene : Dry Wt	50.6	27.5	50.6	816	2180	3020	315	28.1	17.5	21.2	31.6	<10	152	156	87.3	99.5	12.7	<10	16.8	16.8	<10		
C2 Chrysene : Dry Wt	<10	<10	<10	115	261	398	47.9	<10	<10	<10	<10	<10	<10	13.4	<10	12.4	<10	<10	<10	<10	<10		
C2 Dibenzothiophene : Dry Wt	28.9	<10	<10	175	439	309	69.3	<10	<10	<10	<10	<10	33.2	21.6	<10	26.5	<10	<10	<10	<10	<10		
C2 Fluorene : Dry Wt	15.8	<10	<10	340	1180	1510	124	<10	<10	<10	<10	<10	58.6	70.7	17.1	28	<10	<10	<10	<10	<10		
C2 Naphthalene : Dry Wt	181	59.4	107	1510	4020	4400	458	58.8	32.7	47.3	<10	<10	342	278	123	171	50.6	48.4	63.6	<10	<10		
C2 Phenanthrene : Dry Wt	73.1	37.5	66.2	913	1980	2910	358	38.8	17.4	23.6	34.5	<10	202	166	96.4	127	17.6	11.1	15.4	15.4	<10		
C3 Chrysene : Dry Wt	<10	<10	<10	100	249	514	38.6	<10	<10	<10	<10	<10	<10	<10	<10	11.8	<10	<10	<10	<10	<10		
C3 Dibenzothiophene : Dry Wt	15.5	<10	<10	112	269	503	50.7	<10	<10	<10	<10	<10	17	<10	<10	<10	<10	<10	<10	<10	<10		
C3 Fluorene : Dry Wt	23.5	<10	<10	393	1040	1420	96.1	<10	<10	<10	<10	<10	54.1	63.1	<10	15	<10	<10	<10	<10	<10		
C3 Naphthalene : Dry Wt	261	88.6	89.2	1540	4230	4550	552	100	54	96.7	<10	<10	434	340	147	221	64.7	65.5	92.3	<10	<10		
C3 Phenanthrene : Dry Wt	67.8	32.4	54.9	770	1480	2160	318	36	15.5	16.4	26.9	<10	169	148	84.8	113	<10	<10	<10	19.6	<10		
C4 Chrysene : Dry Wt	<10	<10	<10	22.7	65.7	119	11.9	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
C4 Naphthalene : Dry Wt	74.4	15.6	<10	662	2270	2540	274	37.9	18.7	22.5	<10	<10	176	173	59.6	75.7	18.2	19.3	30.9	<10	<10		
C4 Phenanthrene : Dry Wt	56.3	20.4	34.4	589	1050	1640	236	32.8	<10	<10	16	<10	133	116	56.9	82.8	<10	<10	<10	<10	<10		
Dibenzothiophene : Dry Wt	<10	<10	<10	34.6	173	200	11.4	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
Perylene : Dry Wt	<10	<10	<10	11.9	166	289	15.4	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
Acenaphthene : Dry Wt	4.13	<2	<2	40.9	317	264	21.8	2.55	<2	3.55	<2	<2	8.71	6.2	7.53	4.75	<2	<2	2.31	<2	<2	16	500
Acenaphthylene : Dry Wt	<2	<2	<2	16.6	249	453	27.8	<2	<2	<2	<2	<2	3.66	36.6	<2	3.14	<2	<2	<2	<2	<2	44	640
Anthracene : Dry Wt	3.05	<2	3.57	71.3	567	748	40.5	2.61	<2	<2	<2	<2	10.1	13.4	11.9	9.61	<2	<2	<2	<2	<2	85.3	1100
Benzo(a)anthracene : Dry Wt	6.59	5.2	6.69	104	721	1230	86.1	8.95	4.89	7.73	10.9	3.28	17.2	25.9	43.6	31.3	4.16	2.64	3.65	7.34	<2	261	1600
Benzo(a)pyrene : Dry Wt	3.87	3.69	3.79	66.8	675	1150	70.5	6.8	3.77	7.32	9.73	3.15	11	17.1	32.8	24.3	3.43	<2	2.53	6.22	<2	430	1600
Benzo(b)fluoranthene : Dry Wt	<10	<10	<10	78.2	569	117	83.7	13.1	10.6	19.7	26.2	<10	15.7	18.1	35.8	35.3	<10	<10	<10	18.4	<10		
Benzo(ghi)perylene : Dry Wt	<10	<10	<10	79.4	387	673	60.8	<10	<10	12.3	14.9	<10	11.1	11.5	19.3	25.2	<10	<10	<10	11.8	<10		
Benzo(k)fluoranthene : Dry Wt	<10	<10	<10	28.1	256	503	32	<10	<10	<10	<10	<10	<10	<10	14.9	12.1	<10	<10	<10	<10	<10		
Chrysene + Triphenylene : Dry Wt	7.58	5.91	7.25	107	755	1280	78.7	9.04	5.36	6.83	10.1	<3	18.9	25.4	38.1	30.7	4.49	3.09	4.23	9.25	<3		
Dibenzo(ah)anthracene : Dry Wt	<5	<5	<5	10.7	94.1	172	12.2	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	63.4	260
Fluoranthene : Dry Wt	11.3	7.75	9.37	165	1330	2210	137	11.9	6.53	8.98	13.9	3.27	26.5	29.8	71.4	44.6	4.84	2.8	4.55	11.5	2.35	600	5100
Fluorene : Dry Wt	10.8	<10	<10	97.2	444	502	34.2	<10	<10	<10	<10	<10	18.2	13.4	10.4	<10	<10	<10	<10	<10	<10	19	540
Indeno(1,2,3-c,d)pyrene : Dry Wt	<10	<10	<10	34.3	299	512	50.3	<10	<10	12.4	16.3	<10	<10	<10	17	20.6	<10	<10	<10	12.2	<10		
Naphthalene : Dry Wt	129	33.6	34.1	518	1810	2050	169	54.5	40.5	45.1	<30	<30	145	97	51.6	63.6	44.6	52.1	46.4	<30	<30	160	2100
Phenanthrene : Dry Wt	25.2	15.6	24.9	413	2130	2600	171	14.4	<10	10.1	16	<10	67.9	63	63.8	46.2	<10	<10	<10	12.4	<10	240	1500
Pyrene : Dry Wt	12.7	8.85	10.6	165	1140	1900	125	11.7	5.97	6.61	11.7	<3	27	35.2	60.2	41	5.43	3.16	4.59	10.3	<3	665	2600
PAH : Total : Dry Wt : mg/kg	<0.244	<0.126	<0.142	1.85	10.7	14.6	1.07	<0.164	<0.123	<0.150	<0.164	<0.104	<0.377	<0.382	<0.430	<0.356	<0.123	<0.124	<0.123	<0.139	<0.100		
Total Hydrocarbons: Dry Wt: mg/kg	19.1	10	31.6	397	700	1590	178	38.7	10.5	10.9	15.2	7.39	38	23.4	42.3	50.3	7.44	4.52	11	14.6	4.03		

APPENDIX D – CONTAMINANT ANALYSIS

Teesside Cable Corridor

Table D.9 **Hydrocarbons Results and Comparison to the ISQG and PEL - CCME, 1999.**

Unless specified, concentrations in µg/kg	TCC - Chem - 1	TCC - Chem - 3	TCC - Chem - 5	TCC - Chem - 6	TCC - Chem - 9	TCC - Chem - 10	TCC - Chem - 12	TCC - Chem - 18	TCC - Chem - 27	TCC - Chem - 40	TCC - Chem - 48	TCC - Chem - 54	TCC - Chem - 61	TCC - Chem - 62	TCC - Chem - 64	TCC - Chem - 75	TCC - Chem - 86	TCC - Chem - 95	TCC - Chem - 102	TCC - Chem - 109	TCC - Chem - 114	ISQG	PEL
Benzo(b)anthracene : Dry Wt	<10	<10	<10	<10	40.3	57.1	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
Benzo(e)pyrene : Dry Wt	<10	<10	<10	88.6	540	963	76	<10	<10	11.7	17.2	<10	17.3	19.7	30.2	30.3	<10	<10	<10	12.5	<10		
Benzo(j)fluoranthene : Dry Wt	<10	<10	<10	34.5	316	504	38.1	<10	<10	<10	<10	<10	<10	<10	10.5	15.6	<10	<10	<10	<10	<10		
C1 Chrysene : Dry Wt	<10	<10	<10	232	743	1140	120	<10	<10	<10	<10	<10	38	51.5	33.6	39.6	<10	<10	<10	<10	<10		
C1 Dibenzothiophene : Dry Wt	<10	<10	<10	115	392	565	40.3	<10	<10	<10	<10	<10	<10	16.5	<10	<10	<10	<10	<10	<10	<10		
C1 Fluoanthene : Dry Wt	32.9	23.3	36.8	477	1450	2270	255	30	17.4	17	32.3	<10	97.9	139	94.7	91.2	12.8	<10	<10	25	<10		
C1 Fluorene : Dry Wt	14.2	<10	<10	230	767	1020	69.1	<10	<10	<10	<10	<10	40.7	37	16.9	16.4	<10	<10	<10	<10	<10		
C1 Naphthalene : Dry Wt	151	51.7	77.5	1340	3660	4060	340	55.1	30.3	31.2	<10	<10	261	187	90	121	44.8	34.2	48.6	<10	<10		
C1 Phenanthrene : Dry Wt	50.6	27.5	50.6	816	2180	3020	315	28.1	17.5	21.2	31.6	<10	152	156	87.3	99.5	12.7	<10	16.8	16.8	<10		
C2 Chrysene : Dry Wt	<10	<10	<10	115	261	398	47.9	<10	<10	<10	<10	<10	<10	13.4	<10	12.4	<10	<10	<10	<10	<10		
C2 Dibenzothiophene : Dry Wt	28.9	<10	<10	175	439	309	69.3	<10	<10	<10	<10	<10	33.2	21.6	<10	26.5	<10	<10	<10	<10	<10		
C2 Fluorene : Dry Wt	15.8	<10	<10	340	1180	1510	124	<10	<10	<10	<10	<10	58.6	70.7	17.1	28	<10	<10	<10	<10	<10		
C2 Naphthalene : Dry Wt	181	59.4	107	1510	4020	4400	458	58.8	32.7	47.3	<10	<10	342	278	123	171	50.6	48.4	63.6	<10	<10		
C2 Phenanthrene : Dry Wt	73.1	37.5	66.2	913	1980	2910	358	38.8	17.4	23.6	34.5	<10	202	166	96.4	127	17.6	11.1	15.4	15.4	<10		
C3 Chrysene : Dry Wt	<10	<10	<10	100	249	514	38.6	<10	<10	<10	<10	<10	<10	<10	<10	11.8	<10	<10	<10	<10	<10		
C3 Dibenzothiophene : Dry Wt	15.5	<10	<10	112	269	503	50.7	<10	<10	<10	<10	<10	17	<10	<10	<10	<10	<10	<10	<10	<10		
C3 Fluorene : Dry Wt	23.5	<10	<10	393	1040	1420	96.1	<10	<10	<10	<10	<10	54.1	63.1	<10	15	<10	<10	<10	<10	<10		
C3 Naphthalene : Dry Wt	261	88.6	89.2	1540	4230	4550	552	100	54	96.7	<10	<10	434	340	147	221	64.7	65.5	92.3	<10	<10		
C3 Phenanthrene : Dry Wt	67.8	32.4	54.9	770	1480	2160	318	36	15.5	16.4	26.9	<10	169	148	84.8	113	<10	<10	<10	19.6	<10		
C4 Chrysene : Dry Wt	<10	<10	<10	22.7	65.7	119	11.9	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
C4 Naphthalene : Dry Wt	74.4	15.6	<10	662	2270	2540	274	37.9	18.7	22.5	<10	<10	176	173	59.6	75.7	18.2	19.3	30.9	<10	<10		
C4 Phenanthrene : Dry Wt	56.3	20.4	34.4	589	1050	1640	236	32.8	<10	<10	16	<10	133	116	56.9	82.8	<10	<10	<10	<10	<10		
Dibenzothiophene : Dry Wt	<10	<10	<10	34.6	173	200	11.4	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
Perylene : Dry Wt	<10	<10	<10	11.9	166	289	15.4	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
Acenaphthene : Dry Wt	4.13	<2	<2	40.9	317	264	21.8	2.55	<2	3.55	<2	<2	8.71	6.2	7.53	4.75	<2	<2	2.31	<2	<2	6.71	88.9
Acenaphthylene : Dry Wt	<2	<2	<2	16.6	249	453	27.8	<2	<2	<2	<2	<2	3.66	36.6	<2	3.14	<2	<2	<2	<2	<2	5.87	128
Anthracene : Dry Wt	3.05	<2	3.57	71.3	567	748	40.5	2.61	<2	<2	<2	<2	10.1	13.4	11.9	9.61	<2	<2	<2	<2	<2	46.9	245
Benzo(a)anthracene : Dry Wt	6.59	5.2	6.69	104	721	1230	86.1	8.95	4.89	7.73	10.9	3.28	17.2	25.9	43.6	31.3	4.16	2.64	3.65	7.34	<2		
Benzo(a)pyrene : Dry Wt	3.87	3.69	3.79	66.8	675	1150	70.5	6.8	3.77	7.32	9.73	3.15	11	17.1	32.8	24.3	3.43	<2	2.53	6.22	<2	88.8	763
Benzo(b)fluoranthene : Dry Wt	<10	<10	<10	78.2	569	117	83.7	13.1	10.6	19.7	26.2	<10	15.7	18.1	35.8	35.3	<10	<10	<10	18.4	<10		
Benzo(ghi)perylene : Dry Wt	<10	<10	<10	79.4	387	673	60.8	<10	<10	12.3	14.9	<10	11.1	11.5	19.3	25.2	<10	<10	<10	11.8	<10		
Benzo(k)fluoranthene : Dry Wt	<10	<10	<10	28.1	256	503	32	<10	<10	<10	<10	<10	<10	<10	14.9	12.1	<10	<10	<10	<10	<10		
Chrysene + Triphenylene : Dry Wt	7.58	5.91	7.25	107	755	1280	78.7	9.04	5.36	6.83	10.1	<3	18.9	25.4	38.1	30.7	4.49	3.09	4.23	9.25	<3		
Dibenzo(ah)anthracene : Dry Wt	<5	<5	<5	10.7	94.1	172	12.2	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	6.22	135
Fluoranthene : Dry Wt	11.3	7.75	9.37	165	1330	2210	137	11.9	6.53	8.98	13.9	3.27	26.5	29.8	71.4	44.6	4.84	2.8	4.55	11.5	2.35	113	1494
Fluorene : Dry Wt	10.8	<10	<10	97.2	444	502	34.2	<10	<10	<10	<10	<10	18.2	13.4	10.4	<10	<10	<10	<10	<10	<10	21.2	144
Indeno(1,2,3-c,d)pyrene : Dry Wt	<10	<10	<10	34.3	299	512	50.3	<10	<10	12.4	16.3	<10	<10	<10	17	20.6	<10	<10	<10	12.2	<10		
Naphthalene : Dry Wt	129	33.6	34.1	518	1810	2050	169	54.5	40.5	45.1	<30	<30	145	97	51.6	63.6	44.6	52.1	46.4	<30	<30	34.6	391
Phenanthrene : Dry Wt	25.2	15.6	24.9	413	2130	2600	171	14.4	<10	10.1	16	<10	67.9	63	63.8	46.2	<10	<10	<10	12.4	<10	86.7	544
Pyrene : Dry Wt	12.7	8.85	10.6	165	1140	1900	125	11.7	5.97	6.61	11.7	<3	27	35.2	60.2	41	5.43	3.16	4.59	10.3	<3	153	1398
PAH : Total : Dry Wt : mg/kg	<0.244	<0.126	<0.142	1.85	10.7	14.6	1.07	<0.164	<0.123	<0.150	<0.164	<0.104	<0.377	<0.382	<0.430	<0.356	<0.123	<0.124	<0.123	<0.139	<0.100		
Total Hydrocarbons: Dry Wt: mg/kg	19.1	10	31.6	397	700	1590	178	38.7	10.5	10.9	15.2	7.39	38	23.4	42.3	50.3	7.44	4.52	11	14.6	4.03		

APPENDIX D – CONTAMINANT ANALYSIS

Teesside Cable Corridor

Table D.10 **Metals, Metalloids and Non-Metals Results and Comparison to the ERL and ERM - Long*et al.*, 1995.**

Unless specified, concentrations in mg/kg	TCC - Chem - 1	TCC - Chem - 3	TCC - Chem - 5	TCC - Chem - 6	TCC - Chem - 9	TCC - Chem - 10	TCC - Chem - 12	TCC - Chem - 18	TCC - Chem - 27	TCC - Chem - 40	TCC - Chem - 48	TCC - Chem - 54	TCC - Chem - 61	TCC - Chem - 62	TCC - Chem - 64	TCC - Chem - 75	TCC - Chem - 86	TCC - Chem - 95	TCC - Chem - 102	TCC - Chem - 109	TCC - Chem - 114	Effect Range Low (ERL)	Effect Range Median (ERM)
Aluminium, HF Digest : Dry Wt	22000	19800	22500	39200	51800	67100	32300	25800	35700	40300	51100	32000	37200	24600	22100	54300	11800	22000	28100	42300	18500		
Barium, HF Digest : Dry Wt	1170	1770	1980	1680	753	465	270	295	358	357	629	262	822	1190	1320	388	262	253	297	411	240		
Iron, HF Digest : Dry Wt	33400	40400	44000	41200	35400	38700	25200	13100	18400	22200	29700	18600	33700	37000	32400	32900	24500	12600	13400	23700	10700		
Arsenic, HF Digest : Dry Wt	15.3	15.1	19.8	21.1	21.1	28.3	22	8.91	8.27	10.2	15.6	8.46	20	15.3	7.14	25.5	9.87	9.42	9.77	10.1	6.74	8.2	70
Cadmium, HF Digest : Dry Wt	0.134	0.132	0.14	0.16	0.184	0.213	0.152	0.087	0.092	0.095	0.132	0.1	0.152	0.143	0.165	0.136	0.079	0.082	0.076	0.1	0.053	1.2	9.6
Chromium, HF Digest : Dry Wt	292	275	292	191	109	136	372	243	168	130	129	223	126	312	387	221	193	233	164	103	66	81	370
Copper, HF Digest : Dry Wt	102	105	76.7	47.1	43.7	74.4	203	105	75.5	50.4	49.4	166	55.9	121	196	62.7	116	88.8	138	70.3	63.5	34	270
Lead, HF Digest : Dry Wt	48.9	51.8	52.2	74.7	88	138	82.5	32.8	32.7	39.4	81.4	30.3	58	53.5	54.2	104	29.4	25.5	26.5	35.9	14.9	46.7	218
Lithium, HF Digest : Dry Wt	20.6	18	19.9	37.1	52	76.1	25.7	16.2	18.9	24.3	46.7	17.8	35.1	22.1	20.2	53.2	15.1	11.3	14.5	25.6	9.57		
Manganese, HF Digest : Dry Wt	599	735	835	711	658	814	754	468	380	460	583	540	657	709	685	881	887	562	880	461	299		
Mercury	0.008	0.005	0.007	0.034	0.048	0.267	0.051	0.007	0.003	0.013	0.018	0.006	0.046	0.009	0.008	0.049	0.003	0.002	0.002	0.016	<0.002	0.15	0.71
Nickel, HF Digest : Dry Wt	145	136	88.8	53.9	46.9	58.8	222	137	85.8	58	55.3	116	56.8	149	220	118	106	136	90.6	43.5	41.4	20.9	51.6
Tin, HF Digest : Dry Wt	2.5	2.33	3.84	4.91	4.17	5.42	2.4	1.12	2.07	1.95	3.64	1.4	2.68	3.3	2.2	4.05	1.17	0.86	1.17	2.46	0.67		
Vanadium, HF Digest : Dry Wt	54	66.5	75.7	82.8	80.8	108	62.1	40.4	42.6	65.1	83.1	61.9	64	61	51.4	94.7	31.1	25.6	34.1	66.2	27.6		
Zinc : HF Digest : Dry Wt	104	111	118	122	137	169	106	49.2	54.6	64.9	110	70.5	113	115	112	118	50.3	41.2	51.9	69	31	150	410
Boron, Boiling water soluble : Dry Wt	3.19	3.24	3.48	9.13	10.2	19.2	5.05	4.31	6.67	5.36	6.93	4.36	4.49	4.06	7.96	6.62	4.57	4.01	4.45	4.87	3.73		
Selenium : Dry Wt	<0.1	<0.1	<0.1	0.3	0.335	0.665	<0.1	<0.1	0.108	<0.1	0.135	<0.1	<0.1	<0.1	<0.1	0.13	<0.1	<0.1	<0.1	<0.1	<0.1		

Table D.11 **Metals, Metalloids and Non-Metals Results and Comparison to the AL1 and AL2 - CEFAS, 2003.**

Unless specified, concentrations in mg/kg	TCC - Chem - 1	TCC - Chem - 3	TCC - Chem - 5	TCC - Chem - 6	TCC - Chem - 9	TCC - Chem - 10	TCC - Chem - 12	TCC - Chem - 18	TCC - Chem - 27	TCC - Chem - 40	TCC - Chem - 48	TCC - Chem - 54	TCC - Chem - 61	TCC - Chem - 62	TCC - Chem - 64	TCC - Chem - 75	TCC - Chem - 86	TCC - Chem - 95	TCC - Chem - 102	TCC - Chem - 109	TCC - Chem - 114	Action Level 1	Action Level 2
Aluminium, HF Digest : Dry Wt	22000	19800	22500	39200	51800	67100	32300	25800	35700	40300	51100	32000	37200	24600	22100	54300	11800	22000	28100	42300	18500		
Barium, HF Digest : Dry Wt	1170	1770	1980	1680	753	465	270	295	358	357	629	262	822	1190	1320	388	262	253	297	411	240		
Iron, HF Digest : Dry Wt	33400	40400	44000	41200	35400	38700	25200	13100	18400	22200	29700	18600	33700	37000	32400	32900	24500	12600	13400	23700	10700		
Arsenic, HF Digest : Dry Wt	15.3	15.1	19.8	21.1	21.1	28.3	22	8.91	8.27	10.2	15.6	8.46	20	15.3	7.14	25.5	9.87	9.42	9.77	10.1	6.74	20	100
Cadmium, HF Digest : Dry Wt	0.134	0.132	0.14	0.16	0.184	0.213	0.152	0.087	0.092	0.095	0.132	0.1	0.152	0.143	0.165	0.136	0.079	0.082	0.076	0.1	0.053	0.4	5
Chromium, HF Digest : Dry Wt	292	275	292	191	109	136	372	243	168	130	129	223	126	312	387	221	193	233	164	103	66	40	400
Copper, HF Digest : Dry Wt	102	105	76.7	47.1	43.7	74.4	203	105	75.5	50.4	49.4	166	55.9	121	196	62.7	116	88.8	138	70.3	63.5	40	400
Lead, HF Digest : Dry Wt	48.9	51.8	52.2	74.7	88	138	82.5	32.8	32.7	39.4	81.4	30.3	58	53.5	54.2	104	29.4	25.5	26.5	35.9	14.9	50	500
Lithium, HF Digest : Dry Wt	20.6	18	19.9	37.1	52	76.1	25.7	16.2	18.9	24.3	46.7	17.8	35.1	22.1	20.2	53.2	15.1	11.3	14.5	25.6	9.57		
Manganese, HF Digest : Dry Wt	599	735	835	711	658	814	754	468	380	460	583	540	657	709	685	881	887	562	880	461	299		
Mercury	0.008	0.005	0.007	0.034	0.048	0.267	0.051	0.007	0.003	0.013	0.018	0.006	0.046	0.009	0.008	0.049	0.003	0.002	0.002	0.016	<0.002	0.3	3
Nickel, HF Digest : Dry Wt	145	136	88.8	53.9	46.9	58.8	222	137	85.8	58	55.3	116	56.8	149	220	118	106	136	90.6	43.5	41.4	20	200
Tin, HF Digest : Dry Wt	2.5	2.33	3.84	4.91	4.17	5.42	2.4	1.12	2.07	1.95	3.64	1.4	2.68	3.3	2.2	4.05	1.17	0.86	1.17	2.46	0.67		
Vanadium, HF Digest : Dry Wt	54	66.5	75.7	82.8	80.8	108	62.1	40.4	42.6	65.1	83.1	61.9	64	61	51.4	94.7	31.1	25.6	34.1	66.2	27.6		
Zinc : HF Digest : Dry Wt	104	111	118	122	137	169	106	49.2	54.6	64.9	110	70.5	113	115	112	118	50.3	41.2	51.9	69	31	130	800
Boron, Boiling water soluble : Dry Wt	3.19	3.24	3.48	9.13	10.2	19.2	5.05	4.31	6.67	5.36	6.93	4.36	4.49	4.06	7.96	6.62	4.57	4.01	4.45	4.87	3.73		
Selenium : Dry Wt	<0.1	<0.1	<0.1	0.3	0.335	0.665	<0.1	<0.1	0.108	<0.1	0.135	<0.1	<0.1	<0.1	<0.1	0.13	<0.1	<0.1	<0.1	<0.1	<0.1		

Table D.12 **Metals, Metalloids and Non-Metal Results and Comparison to the ISQG and PEL - CCME, 1999.**

Unless specified, concentrations in mg/kg	TCC - Chem - 1	TCC - Chem - 3	TCC - Chem - 5	TCC - Chem - 6	TCC - Chem - 9	TCC - Chem - 10	TCC - Chem - 12	TCC - Chem - 18	TCC - Chem - 27	TCC - Chem - 40	TCC - Chem - 48	TCC - Chem - 54	TCC - Chem - 61	TCC - Chem - 62	TCC - Chem - 64	TCC - Chem - 75	TCC - Chem - 86	TCC - Chem - 95	TCC - Chem - 102	TCC - Chem - 109	TCC - Chem - 114	ISQG	PEL
Aluminium, HF Digest : Dry Wt	22000	19800	22500	39200	51800	67100	32300	25800	35700	40300	51100	32000	37200	24600	22100	54300	11800	22000	28100	42300	18500		
Barium, HF Digest : Dry Wt	1170	1770	1980	1680	753	465	270	295	358	357	629	262	822	1190	1320	388	262	253	297	411	240		
Iron, HF Digest : Dry Wt	33400	40400	44000	41200	35400	38700	25200	13100	18400	22200	29700	18600	33700	37000	32400	32900	24500	12600	13400	23700	10700		
Arsenic, HF Digest : Dry Wt	15.3	15.1	19.8	21.1	21.1	28.3	22	8.91	8.27	10.2	15.6	8.46	20	15.3	7.14	25.5	9.87	9.42	9.77	10.1	6.74	7.24	41.6
Cadmium, HF Digest : Dry Wt	0.134	0.132	0.14	0.16	0.184	0.213	0.152	0.087	0.092	0.095	0.132	0.1	0.152	0.143	0.165	0.136	0.079	0.082	0.076	0.1	0.053	0.7	4.2
Chromium, HF Digest : Dry Wt	292	275	292	191	109	136	372	243	168	130	129	223	126	312	387	221	193	233	164	103	66	52.3	160
Copper, HF Digest : Dry Wt	102	105	76.7	47.1	43.7	74.4	203	105	75.5	50.4	49.4	166	55.9	121	196	62.7	116	88.8	138	70.3	63.5	18.7	108
Lead, HF Digest : Dry Wt	48.9	51.8	52.2	74.7	88	138	82.5	32.8	32.7	39.4	81.4	30.3	58	53.5	54.2	104	29.4	25.5	26.5	35.9	14.9	30.2	112
Lithium, HF Digest : Dry Wt	20.6	18	19.9	37.1	52	76.1	25.7	16.2	18.9	24.3	46.7	17.8	35.1	22.1	20.2	53.2	15.1	11.3	14.5	25.6	9.57		
Manganese, HF Digest : Dry Wt	599	735	835	711	658	814	754	468	380	460	583	540	657	709	685	881	887	562	880	461	299		
Mercury	0.008	0.005	0.007	0.034	0.048	0.267	0.051	0.007	0.003	0.013	0.018	0.006	0.046	0.009	0.008	0.049	0.003	0.002	0.002	0.016	<0.002	0.13	0.7
Nickel, HF Digest : Dry Wt	145	136	88.8	53.9	46.9	58.8	222	137	85.8	58	55.3	116	56.8	149	220	118	106	136	90.6	43.5	41.4		
Tin, HF Digest : Dry Wt	2.5	2.33	3.84	4.91	4.17	5.42	2.4	1.12	2.07	1.95	3.64	1.4	2.68	3.3	2.2	4.05	1.17	0.86	1.17	2.46	0.67		
Vanadium, HF Digest : Dry Wt	54	66.5	75.7	82.8	80.8	108	62.1	40.4	42.6	65.1	83.1	61.9	64	61	51.4	94.7	31.1	25.6	34.1	66.2	27.6		
Zinc : HF Digest : Dry Wt	104	111	118	122	137	169	106	49.2	54.6	64.9	110	70.5	113	115	112	118	50.3	41.2	51.9	69	31	124	271
Boron, Boiling water soluble : Dry Wt	3.19	3.24	3.48	9.13	10.2	19.2	5.05	4.31	6.67	5.36	6.93	4.36	4.49	4.06	7.96	6.62	4.57	4.01	4.45	4.87	3.73		
Selenium : Dry Wt	<0.1	<0.1	<0.1	0.3	0.335	0.665	<0.1	<0.1	0.108	<0.1	0.135	<0.1	<0.1	<0.1	<0.1	0.13	<0.1	<0.1	<0.1	<0.1	<0.1		

APPENDIX D – CONTAMINANT ANALYSIS

Teesside Cable Corridor

Table D.13 **PCB Results and Comparison to the AL1 and AL2 - CEFAS, 2003.**

Unless specified, concentrations in µg/kg	TCC - Chem - 1	TCC - Chem - 3	TCC - Chem - 5	TCC - Chem - 6	TCC - Chem - 9	TCC - Chem - 10	TCC - Chem - 12	TCC - Chem - 18	TCC - Chem - 27	TCC - Chem - 40	TCC - Chem - 48	TCC - Chem - 54	TCC - Chem - 61	TCC - Chem - 62	TCC - Chem - 64	TCC - Chem - 75	TCC - Chem - 86	TCC - Chem - 95	TCC - Chem - 102	TCC - Chem - 109	TCC - Chem - 114	*Action Level 1*	*Action Level 2*
PCB - 028 : Dry Wt	<0.1	<0.1	<0.1	<0.1	<0.1	0.84	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
PCB - 052 : Dry Wt	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
PCB - 101 : Dry Wt	<0.1	<0.1	<0.1	<0.1	0.32	1.04	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
PCB - 118 : Dry Wt	<0.1	<0.1	<0.1	<0.1	0.24	0.92	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
PCB - 138 : Dry Wt	<0.1	<0.1	<0.1	<0.1	0.28	1.04	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
PCB - 153 : Dry Wt	<0.1	<0.1	<0.1	<0.1	0.36	1.16	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
PCB - 180 : Dry Wt	<0.1	<0.1	<0.1	<0.1	<0.1	<0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Sum ICES 7	<LoD	<LoD	<LoD	<LoD	1.2	5	<LoD	<LoD	<LoD	<LoD	<LoD	<LoD	<LoD	<LoD	<LoD	<LoD	<LoD	<LoD	<LoD	<LoD	<LoD	10	None

Table D.14 **Organotins Results**

Unless specified, concentrations in µg/kg	TCC - Chem - 1	TCC - Chem - 3	TCC - Chem - 5	TCC - Chem - 6	TCC - Chem - 9	TCC - Chem - 10	TCC - Chem - 12	TCC - Chem - 18	TCC - Chem - 27	TCC - Chem - 40	TCC - Chem - 48	TCC - Chem - 54	TCC - Chem - 61	TCC - Chem - 62	TCC - Chem - 64	TCC - Chem - 75	TCC - Chem - 86	TCC - Chem - 95	TCC - Chem - 102	TCC - Chem - 109	TCC - Chem - 114
Dibutyl Tin : Dry Wt as Cation	<4	<4	<4	<4	<5	<6	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Dioctyl Tin : Dry Wt as Cation	<3	<3	<3	<3	<3	<4	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Diphenyl Tin : Dry Wt as Cation	<3	<3	<3	<3	<3	<4	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Tetrabutyl Tin : Dry Wt as Cation	<3	<3	<3	<3	<3	<4	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Tributyl Tin : Dry Wt as Cation	<3	<3	<3	<3	<3	<4	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Triphenyl Tin : Dry Wt as Cation	<3	<3	<3	<3	<3	<4	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3

APPENDIX E – MACROFAUNA ANALYSIS

Tranche B

Table E.1 **Tranche B Macrofauna Taxa List**
Figure E.1 **Tranche B Proportional Individual Contribution of Gross Taxonomic groups**
Figure E.2 **Tranche B Proportional Taxa Contribution of Gross Taxonomic groups**
Table E.2 **Tranche B Benthic Biomass (g)**
Table E.3 **Tranche B Univariate Statistics Results**

Teesside Cable Corridor

Table E.4 **Teesside Cable Corridor Macrofauna Taxa List – Stations TCC_01 to TCC_61**
Table E.5 **Teesside Cable Corridor Macrofauna Taxa List – Stations TCC_62 to TCC_120**
Figure E.3 **Teesside Cable Corridor Proportional Individual Contribution of Gross Taxonomic groups**
Figure E.4 **Teesside Cable Corridor Proportional Taxa Contribution of Gross Taxonomic groups**
Table E.6 **Teesside Cable Corridor Benthic Biomass (g)**
Table E.7 **Teesside Cable Corridor Univariate Statistics Results**

APPENDIX E – MACROFAUNAL ANALYSIS

Tranche B

Table E.1 **Tranche B Macrofauna Taxa List**

Phylum Class/Order	Taxon	SAMPLES																																																	Total
		TB_01	TB_02	TB_03	TB_04	TB_05	TB_06	TB_07	TB_08	TB_09	TB_10	TB_11	TB_12	TB_13	TB_14	TB_15	TB_16	TB_17	TB_18	TB_19	TB_20	TB_21	TB_22	TB_23	TB_24	TB_25	TB_26	TB_27	TB_28	TB_29	TB_30	TB_32	TB_33	TB_34	TB_35	TB_36	TB_37	TB_38	TB_39	TB_40	TB_41	TB_42	TB_43	TB_44	TB_45	TB_46	TB_48	TB_49	TB_50	TB_51	TB_52	TB_53	
Taxa included in Statistical Analysis																																																				
Annelida - Polychaeta	*Pisione remota*																																																1				**1**
	Polynoidae																														1																7	1	2				**11**
	Polynoidae juv.																																															2					**2**
	Subadyte pellucida																																															2				2	**4**
	Gattyana cirrhosa																		1						1						6						1					1					2	2	1				**15**
	Harmothoe																														6																1	2				1	**10**
	Harmothoe extenuata																																															1					**1**
	Harmothoe impar																																															3				1	**4**
	Malmgreniella darbouxi							1						1			1		1												2																1						**7**
	Malmgreniella ljungmani																																										1										**1**
	Malmgreniella mcintoshi																																														2						**2**
	Pholoe baltica																2		3		3					1					8			1		1	2		1				1				7		3	1		4	**38**
	Pholoe inornata																																															21	4				**25**
	Sigalion mathildae	10	6	4	4	3	4	6	3	7	1	5	2	8	1	5	1	1	5	1	4	1	6	5	2	4	6	7	4	8		1	2			2	2	4	4	2	1	1	3	1	2	3				2	2		**156**
	Sthenelais																																												1								**1**
	Sthenelais limicola																1								1																1												**3**
	Eteone longa						1					1					1	3					1				3					1		1	2						1						1		3			1	**20**
	Hypereteone foliosa																																									1											**1**
	Phyllodoce groenlandica	1									1										1						1		1			1																					**6**
	Phyllodoce rosea																		1																			1															**2**
	Eulalia																														1																	8	2				**11**
	Eulalia viridis																																															7					**7**
	Eumida																																	1														2	2			1	**6**
	Eumida bahusiensis										1																																1										**2**
	Eumida sanguinea																																														1						**1**
	Glycera juv.																																																1				**1**
	Glycera alba																																															1					**1**
	Glycera fallax																																														1						**1**
	Glycera lapidum																																														1	2	3				**6**
	Goniadidae juv.				1																										1																						**2**
	Glycinde nordmanni													1												2								2		1				1							1		1				**9**
	Goniada maculata	1	1	1	1	1	2	1	2	1		1	1	1		1	1	2	2	3	3	1	4		1	1	1		1	1	2	1	1	1		1	1	8	3	1	1	1	2	2	2	3		2	2	3	2		**75**
	Goniadella gracilis																																														2						**2**
	Sphaerodorum gracilis																																															4					**4**
	Nereimyra punctata																														3																	6	1			2	**12**
	Podarkeopsis capensis	1				1				1											1														1	2																	**7**
	Nereididae juv.																															1																					**1**
	Nephtys										1																																										**1**
	Nephtys juv.	1	1	3	2	2			1		2		3	4		1				2	2	4	1			1		2	1	1		1	3					4	2	1	6			2		7							**60**
	Nephtys assimilis				1								1								1						1							1									1	1						1			**8**
	Nephtys caeca																																					1															**1**
	Nephtys cirrosa	3	1	1					2		1		3		1							4				2								1			1	1	3		1					1							**26**
	Nephtys hombergii																																		1																		**1**
	Orbinia latreillii																											1																									**1**
	Orbinia (Orbinia) sertulata																															1																					**1**
	Scoloplos (Scoloplos) armiger					1																				2																										1	**4**
	Poecilochaetus serpens		1																	1																							3										**5**
	Aonides paucibranchiata																																														1	2	11				**14**
	Laonice bahusiensis																																														2		3			1	**6**
	Dipolydora coeca																														2										1							1					**4**
	Dipolydora caulleryi																																																1				**1**
	Scolelepis bonnieri				1		1		1			1	1	1						1			3			1		1	1	1		1		1							1			1	1					1			**20**
	Scolelepis korsuni				1										1		1																																				**3**
	Spio filicornis					1				1		1					1																																	1			**5**
	Spiophanes bombyx	113	93	21	86	79	55	76	125	13	10	120	31	100	55	12	120	98	173	66	40	24	123	66	73	81	18	96	58	70	2	88	51	24	39	38	58	62	45	21	75	39	26	44	58	35		3	4	46	45	1	**2899**
	Spiophanes kroyeri																																		1														1				**2**
	Magelona alleni																	1			1														1	1																	**4**
	Magelona filiformis	1		4	4	1		1	3	1	2	12	1	7	1		5	4	6	1		2	12		2	3	4	1	2	1				1	3		2	2	1	1			2	3	3								**99**
	Magelona johnstoni	3		1	4	5	5	2	1	2	1	7		4	2		1		3		2	1	5	2		3	5	3	3	3		9	2	3	4	1	1			4	4	2			2								**100**
	Caulleriella alata																																														1					4	**5**
	Chaetozone christiei						1	1			1	5	1	3		1	2	2	1		1	1	1			1	1		2		1		1		2	2			1		3		1	1	1	1			1				**40**
	Dodecaceria																														1																	7					**8**
	Pherusa juv.																																															1					**1**
	Mediomastus fragilis																																														2	6	13			11	**32**
	Notomastus latericeus	1		1														3					1											2													20					1	**29**
	Maldanidae						1																												1																		**2**
	Clymenura	1						1								1		1									1																										**5**
	Ophelia juv.																				1																																**1**
	Ophelia borealis																												1					1			1				2												**5**
	Scalibregma inflatum																														4																	1		1			**6**
	Galathowenia oculata																		1																																		**1**
	Owenia fusiformis	16	4	1	4	12	2	3	14	1		1	5	7	3	2	3	1	6	4	2	2		2	5	3	1	2	3	7	2	5	3	8	7	6	18	11	4	10	2	4	8	8	5	4	1	6	1	6	2	1	**238**
	Lagis koreni	1	1	1		1		1		3	1	1	1				3	21	19	2	3		3	14	6	2	12		7		5	1		1	10			5	1	4		4	14		3		1	2	1	5	22	1	**183**
	Lanice conchilega	3			2	1	1	2	2	2	4	11	1		10	10	12	24	5	13	3		4		14	3	12		4	8	4	1	3	34	31	8	4	15		1	3	10	21	1	2		6		1	31	18		**345**
	Polycirrus																														4																1	1				1	**7**
	Chone																								1																						3	5					**9**
	Hydroides norvegicus																														1																					1	**2**
	Spirobranchus																														21																5	70	27			15	**138**
	Spirobranchus lamarcki																																														2	51	20			8	**81**
	Spirobranchus triqueter																														29																6	82				33	**150**
Arthropoda - Pycnogonida	*Callipallene brevirostris*																														1																						**1**
	Anoplodactylus petiolatus																					1																												1			**2**
Crustacea	*Gastrosaccus spinifer*																				1																																**1**
	Amphipoda																		1																																		**1**
	Oedicerotidae																	1																																			**1**
	Perioculodes longimanus		1	2					1	1										1												1												1		1							**9**
	Pontocrates arcticus													1																																							**1**
	Synchelidium maculatum													1		2				1						1		1	1																						1		**8**
	Amphilochus neapolitanus																																						1														**1**
	Leucothoe incisa		2				1					1	1	2	1		1							1		1			3	2		1				2										1							**20**
	Urothoe				1			2															1														2																**6**
	Urothoe elegans					3		3									8		4	1	1				1											2	2					1											**26**
	Urothoe poseidonis	8	1	3	7	1		4	1	1	2	1		5	4	3	6	9	2	2	1		1	1		1	1		3	5		1	4	5	2	9	1				2	3	1	1	1	2							**105**
	Acidostoma obesum					1																																															**1**

APPENDIX E – MACROFAUNAL ANALYSIS

Tranche B

Phylum Class/Order	Taxon	SAMPLES																																																			Total
		TB_01	TB_02	TB_03	TB_04	TB_05	TB_06	TB_07	TB_08	TB_09	TB_10	TB_11	TB_12	TB_13	TB_14	TB_15	TB_16	TB_17	TB_18	TB_19	TB_20	TB_21	TB_22	TB_23	TB_24	TB_25	TB_26	TB_27	TB_28	TB_29	TB_30	TB_32	TB_33	TB_34	TB_35	TB_36	TB_37	TB_38	TB_39	TB_40	TB_41	TB_42	TB_43	TB_44	TB_45	TB_46	TB_48	TB_49	TB_50	TB_51	TB_52	TB_53	
Taxa included in Statistical Analysis																																																					
	Hippomedon denticulatus																																													1							1
	Nototropis falcatus		1	1				2	2				3																																									9
	Atylus vedlomensis																																																	1				1
	Ampelisca																											1			4					1																			6
	Ampelisca brevicornis	4							1			3		1		1			1	1	1			1	1		1	1	2	2		2		1				1						1		1					1		28
	Ampelisca diadema																														6																					1	7
	Ampelisca spinipes																																																	2				2
	Ampelisca tenuicornis																		1	1																																		2
	Bathyporeia			9	4		1	1	3		1		4	2	1						2	2		1				2			1	1												2											1			38
	Bathyporeia elegans	7	2	8	1	2		2	5		2		10	2	1		6		3			5	5			5	1		3	2		3	3		1	2	2	3	3	2		1		3	6	2						1		104
	Bathyporeia guilliamsoniana	17	14	18	11	4	11	1	8	3	1	3	17	12	6	5	1		3	2	2	2	5	6		10	4	8	7	7		4		5	9	1		4	2	5	7		3	6	3	3				3	1		244
	Bathyporeia tenuipes											1						1												1																									3
	Megaluropus agilis	1				2												1																			1																	5
	Melitidae juv.																																															1					1
	Abludomelita obtusata												1				1																																					2
	Cheirocratus																																									1					2		1				4
	Cheirocratus sundevalli																																														2						2
	Othomaera othonis																																															1					1
	Monocorophium sextonae																																															11	1				12
	Siphonoecetes (Centraloecetes) kroyeranus			1	1	3	2	1	5	1		1	1			2		2								1													1								1						1		24
	Pariambus typicus																1			1				2																															4
	Phtisica marina																1			1																																			2
	Gnathia																																															1					1
	Gnathia dentata																																															1					1
	Pseudoparatanais batei																																															4					4
	Tanaopsis graciloides																														1																						1
	Bodotria scorpioides																														1																						1
	Iphinoe trispinosa	1		1					1				1			1							1					1	1																									8
	Pseudocuma similis																																									1											1
	Diastylis bradyi	3	2	3		3	3	1	6	1		1	1		2	1			2	3				1				3		3		1							1							1									42
	Paguridae juv.																														1					1						1						1					4
	Galathea juv.																														1																		1				2
	Pisidia longicornis																																															1					1
	Ebalia tumefacta													1																																	1					2
	Corystes cassivelaunus											2										1	1						1				2											1		2	1				2			13
	Liocarcinus juv.																	1												2	1																								4
Mollusca	*Leptochiton asellus*																																															1					1
	Gibbula tumida																														6																						6
	Euspira pulchella	1				1		2			1	1	1		2	2								3		1		3	1	1		1	2	1		1		1					1	1	1		1		1	1	1		33
	Eulima bilineata																														1																						1
	Nassarius incrassatus																																															1					1
	Bela nebula														1				1																																			2
	Raphitoma linearis																																																			1	1
	Philine	1																																1		1								1	1		2			3			10
	Cylichna cylindracea																	1									1									2	1	2	3		1			4	1	3					2	1		22
	Onchidorididae juv.																																															2					2
	Tritonia																																															4					4
	Bivalvia									1					1								1				1	1	1		1				1	2					1				1		2	2				16
	Nucula																																																	1			1
	Mytilidae juv.																																															1					1
	Pectinidae juv.				1																																																	1
	Anomiidae																																															5				1	6
	Thyasira																																													1							1
	Thyasira juv.																																					1																1
	Thyasira flexuosa									1	1		1						2																1										1					1			3		11
	Kurtiella bidentata									3			5	3		1	2	1	5		9				3	1					155			1	2	6			2						3						1	20	223
	Tellimya ferruginosa	5	5					3	1	6		1			4			3	2				1	4	2		1	3				2		3																				46
	Epilepton clarkiae																																									1											1
	Cardiidae juv.																2											1			1				1		1	1		1			1		2					3	1		15
	Mactridae juv.			2	1	2		1	7	1		7	4	2	2	3	4		4		2		11	1		1	3	2	4	1		6		1	4		2		2						1	4					1			86
	Mactra stultorum	1		3				1							1		1		1				1	2		1		2	1	2	3		1					1		1	1				2	1									27
	Spisula elliptica																																											1									1
	Spisula solida														1																																							1
	Lutraria juv.																1							1																															2
	Pharidae juv.	1						1		1					5					1			1														1																11
	Ensis		1																1																								1											3
	Ensis juv.		2	1		4	2		2	1	13	5	2	4	2	3	6	3	3			2	6	1	3		5	1	4	4			5	16	7	1	3	4	1	13	2	9	9	7	12	3				8	7		186
	Ensis ensis	1						1																		1			1				1	1		1		2															9
	Phaxas pellucidus								1					1												1	1			1			1		1				1		2	1		3	1						3	4		22
	Angulus fabula	5	4	1	6		1		6	9	20	30	3	13	5	1	6	14	6	1	2	4	13	8		17	38	13	11	5		13	9	15	11	14	1	15	5	6	7	29	12	16	18	7				15	10		445
	Donax vittatus				1																																																	1
	Gari juv.																											1																									1
	Gari fervensis							1													2				1	2			1							1																	8
	Abra juv.												2	1		1					1									1		1	2	2			1	1	2		1	2	2	4		1			2	1		28
	Abra alba																														2																					1	3
	Abra prismatica						1										1			2				1			1						2				1	2	1	3		1	3	4	1	3				1	3		31
	Arctica islandica juv.																												1						2						1	1							1	3		9
	Dosinia juv.	2	1		2	1		2	4	1		1	2	2	3	2		1	1		1	3	1		2	7			3	3	1		1	5	3	5		2	3		1	1	5	6	3	4				1	3		89
	Dosinia lupinus																				1					1																											2
	Polititapes virgineus																														1																						1
	Chamelea striatula																1								1						1	1	1	1	3		2				1				2								14
	Timoclea ovata																														3													2			3	1	1			10
	Mysia undata																		1								1								2	2	1			1				2		1						1		12
	Mya juv.																								1						10																3		1			1	16
	Corbula gibba									1			1								1																1													1			5
	Hiatella arctica																																															14	5				19
	Thracia																																			1															1		2
	Thracia juv.				1											2								1					2	1					1												2								10
	Thracia phaseolina	3	1				1											1	3					1				3		1	1			1		1	2				1			1	2		1			1					25
	Cochlodesma praetenue					1									1		1						1			1	1					2			1											2				1			12
Echinodermata - Asteroidea	Asteroidea juv.																														1																1	1				2	5
	Asterias rubens																																																	1				1
Ophiuroidea	Ophiuroidea juv.					1					1		1		1	1		1	2							3	2		2			2				1	1	2					1	2	1	3		1	9	1	3	2	1	45
	Ophiothrix juv.																																																			9	9
	Ophiothrix fragilis																																															15				12	27

APPENDIX E – MACROFAUNAL ANALYSIS

Tranche B

Phylum Class/Order	Taxon	SAMPLES																																																			Total
		TB_01	TB_02	TB_03	TB_04	TB_05	TB_06	TB_07	TB_08	TB_09	TB_10	TB_11	TB_12	TB_13	TB_14	TB_15	TB_16	TB_17	TB_18	TB_19	TB_20	TB_21	TB_22	TB_23	TB_24	TB_25	TB_26	TB_27	TB_28	TB_29	TB_30	TB_32	TB_33	TB_34	TB_35	TB_36	TB_37	TB_38	TB_39	TB_40	TB_41	TB_42	TB_43	TB_44	TB_45	TB_46	TB_48	TB_49	TB_50	TB_51	TB_52	TB_53	
Taxa included in Statistical Analysis																																																					
	Acrocnida brachiata	3		1	1			3				1	5	8	1	3	6	1	6	1	16				4	1			2	2				3	2	2	5	1	1			1			2						2		**84**
	Amphiura filiformis																		2	1															1			1															**5**
	Amphipholis squamata																														1																	7				4	**12**
	Ophiura albida																																															1					**1**
Echinoidea	Echinoidea juv.					3		1	8					3	7	2		1	2	8		3			11	1	5	1	4	7		3	3		1	3	4	2	9	7	3	3	5	29	36			1		2	10		**188**
	Psammechinus miliaris																																															1	1				**2**
	Echinocyamus pusillus			1		4	3	4			1			4		1	1		2	4						3					1			3				2							3			4	3			1	**45**
	Echinocardium														1											1						1																					**3**
	Echinocardium cordatum	3	3		1			3		1		1		4	1			1	1				1	1	1		1	2																	1								**26**
	Echinocardium flavescens																								1												1																**2**
Holothuroidea	*Leptosynapta cruenta*																																														11						**11**
Cnideria	*Cerianthus lloydii*																																															1					**1**
	Actiniaria																				1										1																						**2**
	Edwardsiidae	3	1	3		4	1	2	1				2	4	5	4			4	4	4	1		2	5						1	1	1	1	1		2						1					1					**59**
Nemertea	Nemertea								1				3					1	1	1					1		1										1						1				1	5	5			2	**24**
Sipuncula	Golfingiidae juv.																																															6					**6**
Phoronida	*Phoronis*						1	2	6	2	1	1		3	2				4				1			5		4		1	5	2		1	1	1	3						1		1			1	6	1	1		**57**
Chordata	Ascidiacea juv.																														2																					2	**4**
	Dendrodoa grossularia																																																2				**2**
	Micrenophrys lilljeborgii																																																			1	**1**
	Ammodytes marinus			1																																																	**1**
	Pleuronectiformes juv.																											1																									**1**
	Individuals	**226**	**149**	**97**	**150**	**148**	**101**	**139**	**224**	**67**	**70**	**227**	**122**	**216**	**130**	**80**	**212**	**206**	**297**	**131**	**116**	**64**	**219**	**123**	**150**	**178**	**136**	**164**	**150**	**154**	**316**	**158**	**104**	**154**	**158**	**130**	**130**	**166**	**99**	**90**	**127**	**122**	**144**	**151**	**196**	**92**	**103**	**413**	**146**	**156**	**151**	**150**	**7902**
	Taxa	**33**	**23**	**27**	**26**	**29**	**22**	**34**	**30**	**27**	**23**	**29**	**34**	**33**	**32**	**30**	**35**	**29**	**43**	**29**	**32**	**20**	**30**	**21**	**29**	**39**	**30**	**28**	**37**	**30**	**46**	**32**	**23**	**38**	**33**	**38**	**31**	**33**	**25**	**22**	**22**	**28**	**34**	**30**	**37**	**25**	**35**	**62**	**43**	**34**	**29**	**35**	**211**

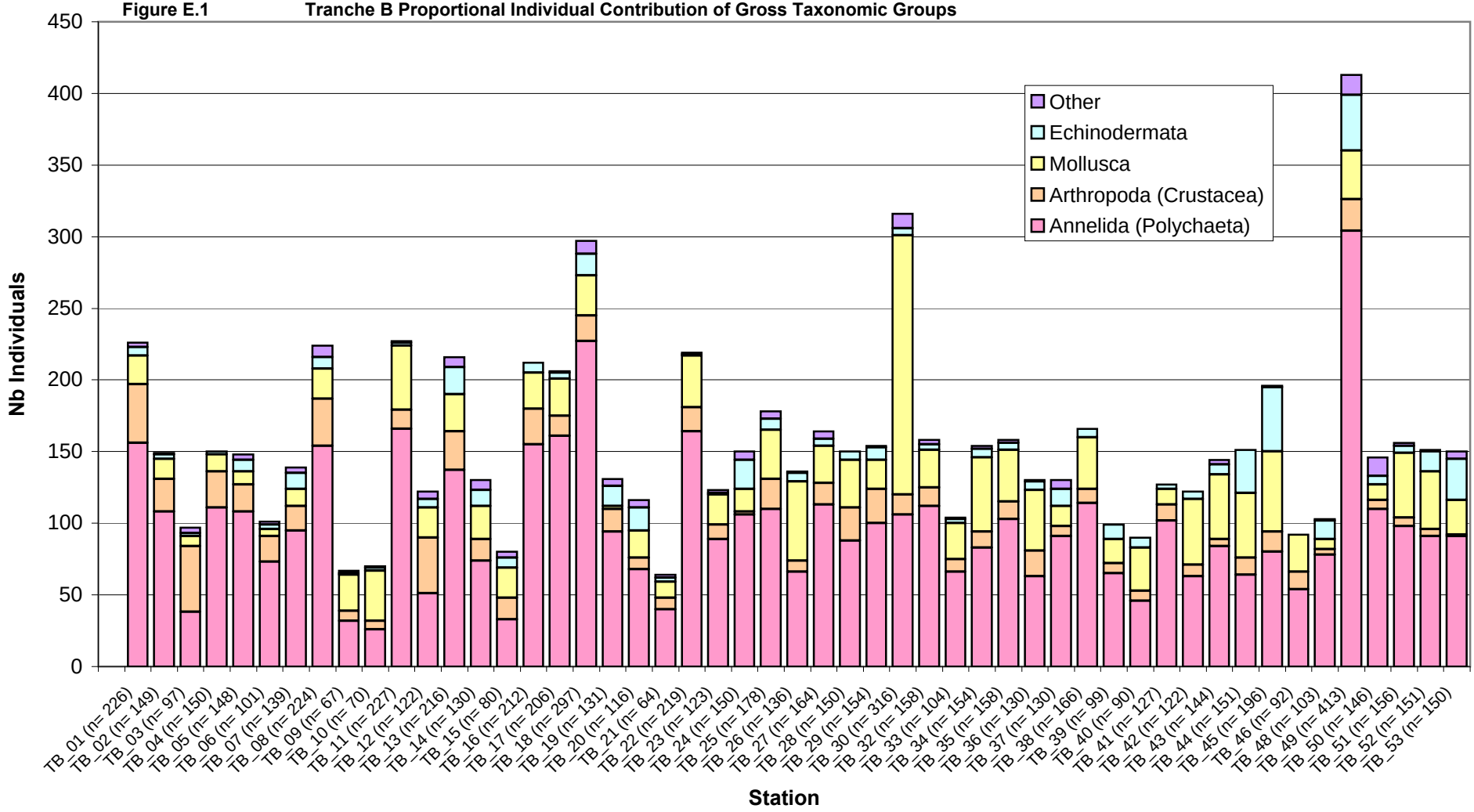
Juvenile (shaded rows)

Phylum Class/Order	Taxon	SAMPLES																																																			Total
		TB_01	TB_02	TB_03	TB_04	TB_05	TB_06	TB_07	TB_08	TB_09	TB_10	TB_11	TB_12	TB_13	TB_14	TB_15	TB_16	TB_17	TB_18	TB_19	TB_20	TB_21	TB_22	TB_23	TB_24	TB_25	TB_26	TB_27	TB_28	TB_29	TB_30	TB_32	TB_33	TB_34	TB_35	TB_36	TB_37	TB_38	TB_39	TB_40	TB_41	TB_42	TB_43	TB_44	TB_45	TB_46	TB_48	TB_49	TB_50	TB_51	TB_52	TB_53	
Taxa excluded in Statistical Analysis																																																					
Porifera	*Cliona*																																		P																		
Cnidaria	*Tubularia*					P											P															P				P																	
	Filifera																																																	P			
	Bougainvilliidae																														P					P																	
	Lovenella clausa				P	P	P					P		P	P	P	P							P	P	P								P	P			P		P			P		P	P				P			
	Campanulariidae																																																	P			
	Clytia hemisphaerica																																									P											
	Obelia																														P																						
Anthozoa	*Alcyonium digitatum*																																														P	P				P	
Nemertea	Nematoda							1																																							1		7			1	**10**
Arthropoda	*Verruca stroemia*																																																			2	**2**
	Copepoda						2							1						1																																	**4**
Byozoa	*Crisia*																																																			P	
	Electra pilosa																																																			P	
	Callopora dumerilii																																																			P	
	Scrupocellaria scruposa																																															P				P	
	Cribrilina punctata																																															P					
	Chorizopora brongniartii																																																			P	
	Escharella immersa																														P																P					P	

APPENDIX E - MACROFAUNAL ANALYSIS

Tranche B

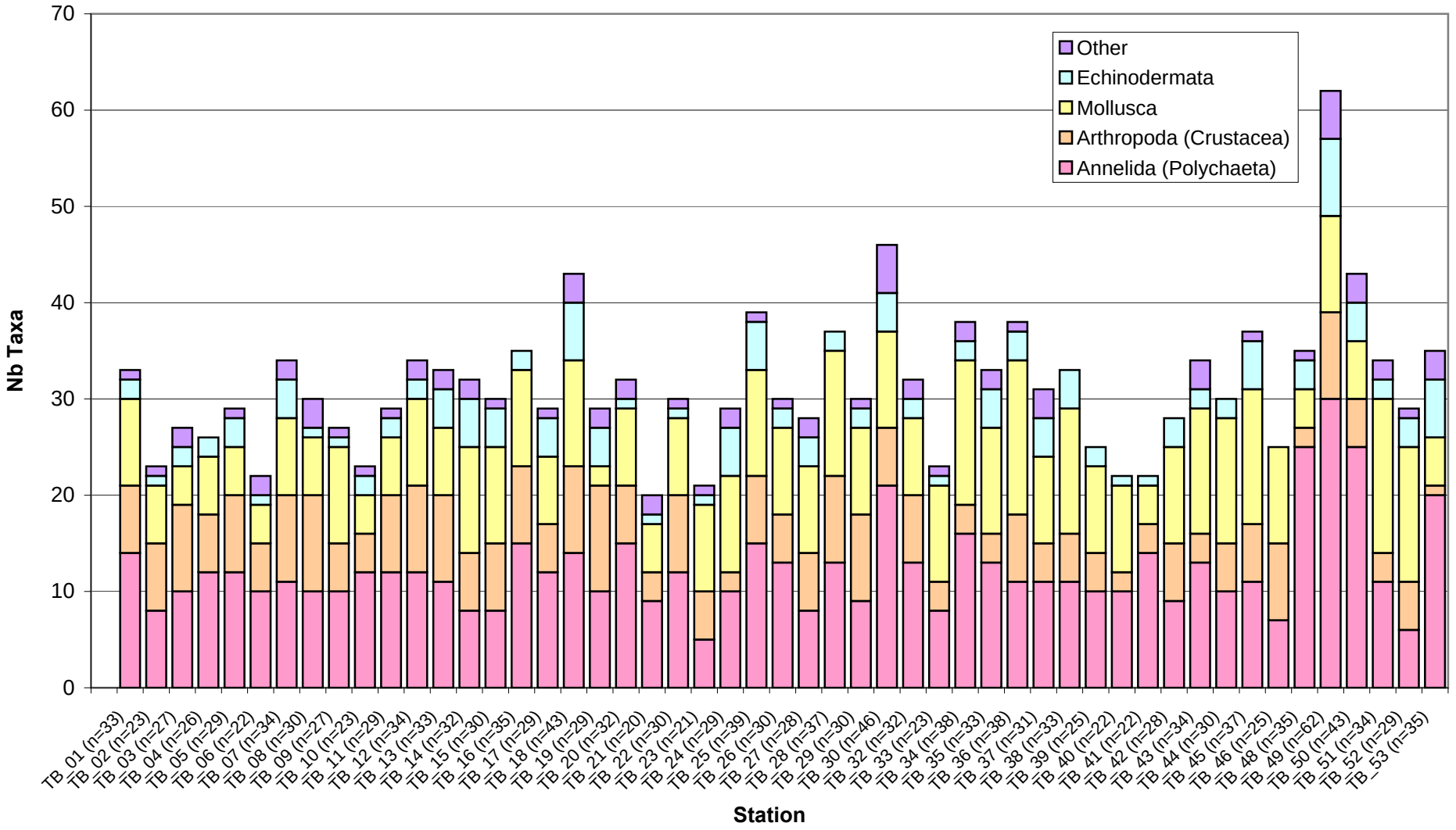
Figure E.1 **Tranche B Proportional Individual Contribution of Gross Taxonomic Groups**



APPENDIX E - MACROFAUNAL ANALYSIS

Tranche B

Figure E.2 **Tranche B Proportional Taxa Contribution of Gross Taxonomic Groups**



APPENDIX E - MACROFAUNAL ANALYSIS

Tranche B

Table E.2 Tranche B Benthic Biomass (g Ash-Free Dry Weight)

Station	Annelida (g)	Crustacea (g)	Mollusca (g)	Echinodermata (g)	Miscellania (g)	Total (g)
TB_01	0.1003	0.0191	0.1759	2.6421	0.0070	2.9444
TB_02	0.0482	0.0093	0.0106	7.9892	0.0012	8.0586
TB_03	0.0297	0.0161	0.0041	0.0243	0.2156	0.2899
TB_04	0.1479	0.0198	0.0277	0.0820	0.0056	0.2829
TB_05	0.0385	0.0041	0.1046	0.0024	0.0026	0.1522
TB_06	0.0675	0.0119	0.0080	0.0007	0.0020	0.0901
TB_07	0.1171	0.0043	0.1792	1.0675	0.0013	1.3694
TB_08	0.0658	0.0196	0.0303	0.0012	0.0025	0.1195
TB_09	0.0474	0.0015	0.1334	0.2359	0.0003	0.4185
TB_10	0.0239	0.0026	0.0525	0.0004	0.0000	0.0794
TB_11	0.0930	0.0135	0.0577	2.2353	0.0016	2.4012
TB_12	0.0818	0.0144	0.0447	0.0345	0.0308	0.2062
TB_13	0.0581	0.0162	0.0150	0.5083	0.0030	0.6005
TB_14	0.0451	0.0048	0.3233	0.9584	0.0066	1.3382
TB_15	0.0645	0.0034	0.0697	0.3908	0.0090	0.5374
TB_16	0.1213	0.0041	0.0505	0.5487	0.0008	0.7254
TB_17	0.1579	0.0053	0.0423	0.2925	0.0018	0.4997
TB_18	0.0967	0.0047	0.0904	1.9081	0.0839	2.1839
TB_19	0.0696	0.0049	0.4103	0.0120	0.0086	0.5054
TB_20	0.0604	0.0014	0.8324	0.1485	0.0036	1.0463
TB_21	0.0380	0.0113	0.9578	0.0005	0.0006	1.0082
TB_22	0.0826	0.0068	0.0480	1.5960	-	1.7334
TB_23	0.0719	0.0079	0.1714	0.4474	0.0026	0.7012
TB_24	0.1170	0.0007	0.2287	0.8420	0.0186	1.2070
TB_25	0.0385	0.0069	0.3831	0.0179	0.0038	0.4503
TB_26	0.1232	0.0020	0.1460	3.1430	0.0025	3.4167
TB_27	0.1119	0.0075	0.0186	1.6086	0.0002	1.7468
TB_28	0.0412	0.0533	0.3913	0.0124	-	0.4981
TB_29	0.0797	0.0116	0.0522	0.0130	-	0.1565

APPENDIX E - MACROFAUNAL ANALYSIS

Tranche B

Table E.2 Tranche B Benthic Biomass (g Ash-Free Dry Weight)

Station	Annelida (g)	Crustacea (g)	Mollusca (g)	Echinodermata (g)	Miscellania (g)	Total (g)
TB_30	0.1619	0.0019	1.6592	0.0018	0.0147	1.8394
TB_32	0.1080	0.0079	0.0559	0.1531	0.0027	0.3275
TB_33	0.0221	0.0129	0.2699	0.0005	0.0010	0.3064
TB_34	0.0761	0.0030	0.2850	0.3333	0.0024	0.6999
TB_35	0.1430	0.0050	0.0481	0.0262	0.0963	0.3186
TB_36	0.0735	0.0088	0.0879	0.0391	0.0017	0.2110
TB_37	0.0380	0.0012	0.4585	0.3288	0.0032	0.8298
TB_38	0.1039	0.0022	0.4040	0.0017	0.0001	0.5118
TB_39	0.1270	0.0029	0.0172	0.0035	-	0.1506
TB_40	0.0421	0.0026	0.0227	0.0010	-	0.0685
TB_41	0.0696	0.0058	0.0081	0.0003	-	0.0838
TB_42	0.0281	0.0086	0.1748	0.0065	-	0.2179
TB_43	0.1303	0.0058	0.0788	0.0020	0.0120	0.2290
TB_44	0.0416	0.0064	0.0503	0.0031	-	0.1013
TB_45	0.0332	0.0139	0.0297	0.2785	0.0006	0.3559
TB_46	0.0768	0.0064	0.0324	0.6974	0.0016	0.8146
TB_48	0.1299	0.0024	0.0031	0.0151	0.0188	0.1692
TB_49	0.0911	0.0321	0.0313	0.6023	6.1971	6.9540
TB_50	0.0503	0.0007	0.0569	0.1710	0.0087	0.2877
TB_51	0.0931	0.0155	0.0024	0.0017	0.0023	0.1150
TB_52	0.0813	0.0022	0.0374	0.0034	0.0008	0.1251
TB_53	0.0485	0.0001	0.0032	0.6919	0.2594	1.0030

APPENDIX E – MACROFAUNAL ANALYSIS

Tranche B

Table E.3 Tranche B Univariate Statistics Results

Station	Taxa	Individuals	Pielou's Evenness (J)	Shannon Wiener Diversity (H')	Simpson's Dominance (λ)
TB_01	33	226	0.63	3.16	0.27
TB_02	23	149	0.53	2.40	0.40
TB_03	27	97	0.82	3.88	0.11
TB_04	26	150	0.58	2.75	0.34
TB_05	29	148	0.63	3.04	0.30
TB_06	22	101	0.62	2.77	0.32
TB_07	34	139	0.62	3.18	0.31
TB_08	30	224	0.60	2.92	0.32
TB_09	27	67	0.86	4.10	0.09
TB_10	23	70	0.77	3.50	0.15
TB_11	29	227	0.57	2.79	0.31
TB_12	34	122	0.81	4.14	0.10
TB_13	33	216	0.68	3.44	0.23
TB_14	32	130	0.72	3.58	0.20
TB_15	30	80	0.90	4.42	0.06
TB_16	35	212	0.58	2.96	0.33
TB_17	29	206	0.61	2.98	0.26
TB_18	43	297	0.56	3.03	0.35
TB_19	29	131	0.64	3.11	0.27
TB_20	32	116	0.76	3.79	0.15
TB_21	20	64	0.80	3.45	0.17
TB_22	30	219	0.58	2.85	0.33
TB_23	21	123	0.61	2.70	0.31
TB_24	29	150	0.65	3.15	0.26
TB_25	39	178	0.67	3.52	0.23
TB_26	30	136	0.78	3.83	0.12
TB_27	28	164	0.57	2.72	0.36
TB_28	37	150	0.75	3.90	0.17
TB_29	30	154	0.69	3.41	0.22
TB_30	46	316	0.61	3.36	0.26
TB_32	32	158	0.58	2.90	0.33
TB_33	23	104	0.69	3.11	0.26
TB_34	38	154	0.78	4.08	0.10
TB_35	33	158	0.77	3.88	0.12
TB_36	38	130	0.79	4.13	0.12
TB_37	31	130	0.68	3.38	0.23
TB_38	33	166	0.73	3.67	0.17
TB_39	25	99	0.71	3.29	0.23
TB_40	22	90	0.84	3.72	0.11
TB_41	22	127	0.59	2.62	0.36
TB_42	28	122	0.70	3.35	0.18
TB_43	34	144	0.82	4.20	0.08
TB_44	30	151	0.74	3.61	0.14
TB_45	37	196	0.74	3.83	0.14
TB_46	25	92	0.78	3.60	0.17
TB_48	35	103	0.86	4.42	0.07
TB_49	62	413	0.74	4.43	0.09
TB_50	43	146	0.83	4.49	0.08
TB_51	34	156	0.73	3.72	0.14
TB_52	29	151	0.75	3.64	0.14
TB_53	35	150	0.79	4.03	0.10
Min	**20**	**64**	**0.53**	**2.40**	**0.06**
Max	**62**	**413**	**0.90**	**4.49**	**0.40**
Mean	**31**	**155**	**0.70**	**3.47**	**0.21**
SD	**7**	**64**	**0.10**	**0.54**	**0.10**

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Teesside Cable Corridor

Table E.4 **Teesside Cable Corridor Macrofauna Taxa List - Stations TCC_01 to TCC_61**

Phylum Class/Order	Taxon	STATIONS																																										
		TCC_01	TCC_03	TCC_05	TCC_06	TCC_09	TCC_10	TCC_12	TCC_14	TCC_16	TCC_18	TCC_22	TCC_24	TCC_25	TCC_26	TCC_27	TCC_29	TCC_31	TCC_32	TCC_35	TCC_37	TCC_39	TCC_40	TCC_42	TCC_43	TCC_45	TCC_46	TCC_47	TCC_48	TCC_49	TCC_52	TCC_53	TCC_54	TCC_55	TCC_56	TCC_57	TCC_61
Taxa included in Statistical Analysis																																													
Annelida - Polychaeta	Aphroditidae (juv)																													1															
	Aphrodita aculeata																																												
	Polynoidae (juv)								1				1															1																	
	Enipo kinbergi																																												
	Gattyana cirrhosa																				1							1																	
	Harmothoe antilopes																																												
	Harmothoe imbricata										1																																	
	Harmothoe mariannae																																												
	Malmgreniella castanea										1																																	
	Malmgreniella darbouxi																												1															
	Harmothoe glabra																					1																						
	Lepidonotus squamatus																																												
	Pholoe baltica (sensu Petersen)							1														1			1		1				1	2			5									
	Pholoe inornata (sensu Petersen)								1																								1											
	Sigalionidae																																												
	Sigalion mathildae																																												
	Sigalion squamosus																																												
	Sthenelais																															1												
	Sthenelais limicola											1					1		1							2		2			1	1	1	3									
	Eteone longa																						1												9									
	Phyllodoce																					1																						
	Phyllodoce groenlandica												1								1	1				1	4	3							1									
	Phyllodoce rosea																																												
	Eulalia																																												
	Eulalia bilineata																													1														
	Eumida										2																																	
	Eumida (juv)								1																																			
	Eumida bahusiensis																																												
	Eumida sanguinea																																												
	Glycera (juv)																										2					1			3									
	Glycera alba								1	1																																		
	Glycera lapidum								4																1																			
	Glycera unicornis						1	1	2	1													1		1		3	1	2	1														
	Goniadidae (juv)								1				1															1				1			1									
	Glycinde nordmanni							1																1					1					1	1	1							
	Goniada maculata	1					1	1	1	1	1		1	3	1	1	2		1	1	3		1	3	1	2	1	4	1		1	4	4	1	5	2						
	Oxydromus flexuosus							1																				1	1														
	Podarkeopsis capensis				1																											1			3							
	Glyphohesione klatti									1														1																			
	Exogone (Parexogone) hebes										1																																	
	Exogone (Exogone) naidina																					1																						
	Exogone (Exogone) verugera								2												1																						
	Sphaerosyllis taylori																																												
	Proceraea																					1																						

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Teesside Cable Corridor

Phylum Class/Order	Taxon	STATIONS																																						
		TCC_01	TCC_03	TCC_05	TCC_06	TCC_09	TCC_10	TCC_12	TCC_14	TCC_16	TCC_18	TCC_22	TCC_24	TCC_25	TCC_26	TCC_27	TCC_29	TCC_31	TCC_32	TCC_35	TCC_37	TCC_39	TCC_40	TCC_42	TCC_43	TCC_45	TCC_46	TCC_47	TCC_48	TCC_49	TCC_52	TCC_53	TCC_54	TCC_55	TCC_56	TCC_57	TCC_61
	Nereididae (juv)								1																															
	Eunereis longissima						1			1																														
	Aglaophamus agilis																																						
	Nephtys (juv)	4	2					2																						1		1	2		4	3	2
	Nephtys assimilis												1			1														2							1
	Nephtys caeca																1																				
	Nephtys cirrosa		3																																6	
	Nephtys hombergii	1			1	1				1																		1			2	1		1		
	Nephtys kersivalensis			1																1						1				2						
	Nephtys longosetosa																	1																			
	Paramphinome jeffreysii								3	1	15	2	1		3	1	5	3	2	14	22	7	12	53	16	3	35	21	5	5	5	9			7		
	Lumbrineris cingulata					3	2	3	17	6							2																				
	Arabella iricolor																																						
	Orbinia latreillii																																						
	Scoloplos (Scoloplos) armiger					1					6	7	7	1	1	1	5	1	1	7	1	2	2	2							4	7	2				
	Aricidea (Acmira) catherinae																																						
	Aricidea simonae																																						
	Levinsenia gracilis							1	6	1		1									3						1	1										
	Paradoneis lyra							1														1																
	Apistobranchus tullbergi								1														1								1							
	Poecilochaetus serpens										2																							2	1			
	Aonides paucibranchiata										1	1							1	3	1	1				1												
	Laonice																																						
	Laonice bahusiensis						1	1															1		1													
	Laonice sarsi																					1			1													
	Minuspio cirrifera									2							1		1	2																		
	Dipolydora caeca																							1														
	Dipolydora caulleryi																																						
	Pseudopolydora paucibranchiata																								1													
	Scolelepis			1																					1	1												
	Scolelepis bonnieri	2																																					
	Scolelepis (Scolelepis) foliosa												1																									
	Scolelepis korsuni							1																				1								1	
	Spio goniocephala																														1						
	Spiophanes bombyx										3	1	23	1		2					1	1		8	5	9	1	3	1	2	9	21	25	1	139	15	
	Spiophanes kroyeri										2					3					2	2	1	3	2	2	2	3		2			3	1			
	Magelona alleni																			2							1										
	Magelona filiformis		2	30							1					1	1												1	1	1	1	3	2	1		
	Magelona johnstoni	4	8	37																															1	23	
	Chaetopterus variopedatus																										1										
	Aphelochaeta (Type A)								1																												
	Chaetozone christiei			1							2		1																		3			1		2	
	Chaetozone setosa						1	4	3		1	2				2	3		1	5		6	1			2		2	1	1	2		1	2	1			
	Caulleriella zetlandica									1	1																											
	Cirratulus caudatus														2													2										
	Cauleriella killariensis															1		1		2																		

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Phylum Class/Order	Taxon	STATIONS																																							
		TCC_01	TCC_03	TCC_05	TCC_06	TCC_09	TCC_10	TCC_12	TCC_14	TCC_16	TCC_18	TCC_22	TCC_24	TCC_25	TCC_26	TCC_27	TCC_29	TCC_31	TCC_32	TCC_35	TCC_37	TCC_39	TCC_40	TCC_42	TCC_43	TCC_45	TCC_46	TCC_47	TCC_48	TCC_49	TCC_52	TCC_53	TCC_54	TCC_55	TCC_56	TCC_57	TCC_61
	Diplocirrus glaucus				1	2	2		1				2				2			2		1			1		1		6	3	3	1	6		2		
	Pherusa plumosa																																								
	Heteromastus filiformis																					1		2	3		4		1												
	Mediomastus fragilis												1																1												
	Notomastus latericeus																					1			1	1	8		1	1			1							
	Peresiella clymenoides							7	2	2																															
	Maldanidae																			1							2														
	Clymenura																																								
	Euclymene (Type A)																							1																
	Praxillella affinis																		1	2		1	16	13	11		1		3	1										
	Rhodine						1		1																															
	Rhodine gracilior							5																																
	Ophelia (juv)																										1													
	Ophelia borealis																																							
	Ophelina acuminata									1	1																													
	Polyphysia crassa																												1											
	Scalibregma inflatum																																		1					
	Galathowenia oculata										2					1	12	3	22	1	15	4	9	12	3	3	6	17	18	3						2				
	Myriochele danielsseni										1							1	3	2	6			3	1	1		3			1									
	Owenia fusiformis						1				1			1	2		3		3	7	5	3	13	6	7	3	3	3	5	1										
	Pectinariidae (juv)																					4																		
	Amphictene auricoma												10									1	1		1			1		1		9	7						
	Lagis koreni					2	2		1		1							1		1	1										1	3	1	4	45				
	Ampharetidae								1	2								1				2			2			1	1										
	Ampharete falcata							1				1						1		10	7	13	5	2	8	2		12	1	12	1									
	Ampharete finmarchica									2													1																	
	Ampharete lindstroemi									5	1		2										1	4		1	13	4			1				1				
	Amphicteis gunneri																										1												
	Anobothrus gracilis										1										1																			
	Terebellides stroemii								3	2										1																			
	Trichobranchus roseus						1	1	4								1	3		1		2				1		5		1	1								
	Terebellidae (juv)								1																															
	Eupolymnia nesidensis																																							
	Lanice conchilega												1																				1						
	Phisidia aurea																																							
	Pista cristata																																							
	Polycirrus										1																													
	Streblosoma bairdi																												1											
	Streblosoma intestinale																							1	1		1													
	Thelepus cincinnatus																					1																		
	Thelepus setosus																											1		1										
	Sabellidae									1																														
	Sabellidae (juv)																	1										1												
	Chone dunerificta																																							
	Euchone rubrocincta									1																														
	Serpulidae							1		7																														

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Teesside Cable Corridor

Phylum Class/Order	Taxon	STATIONS																																					
		TCC_01	TCC_03	TCC_05	TCC_06	TCC_09	TCC_10	TCC_12	TCC_14	TCC_16	TCC_18	TCC_22	TCC_24	TCC_25	TCC_26	TCC_27	TCC_29	TCC_31	TCC_32	TCC_35	TCC_37	TCC_39	TCC_40	TCC_42	TCC_43	TCC_45	TCC_46	TCC_47	TCC_48	TCC_49	TCC_52	TCC_53	TCC_54	TCC_55	TCC_56	TCC_57	TCC_61
	Hydroides norvegicus							4	2	20	4																								1		
	Spirobranchus																																				
	Spirobranchus lamarcki																																				
	Spirobranchus triqueter									1																											
Arthropoda - Crustacea	*Sarsinebalia urgorrii*																																				
	Schistomysis ornata																																				
	Apherusa bispinosa																			1																	
	Eusirus longipes																																				
	Perioculodes longimanus																																				
	Pontocrates altamarinus																																				
	Synchelidium maculatum																																				
	Westwoodilla caecula												1							1											1					
	Parapleustes assimilis																					1															
	Stenopleustes nodifera																					1															
	Leucothoe incisa																																				1
	Leucothoe lilljeborgi																													1							
	Urothoe elegans											2																									
	Harpinia antennaria							1	1		4	1	6	2		1	1	2	3	3	3	5	5		1				1	1	2		5	1		1	
	Harpinia pectinata																																				
	Hippomedon denticulatus														1			1		1								3		1							1
	Lepidepecreum longicornis																																				
	Scopelocheirus hopei																																				
	Tmetonyx cicada																							2				1	1								
	Nototropis falcatus																																				
	Atylus vedlomensis								2	1																				1					1		
	Ampelisca												1													1				1					1		
	Ampelisca brevicornis				1																1							1		1					3	1	
	Ampelisca diadema								1				2																				1				
	Ampelisca macrocephala						1									1								2													
	Ampelisca spinipes									2		1												1		1							1				
	Ampelisca tenuicornis									1						1				1		1			3		1	3		1		1			4		
	Bathyporeia	2																														1				
	Bathyporeia elegans		5																																	1	3
	Bathyporeia gracilis			1																												1					
	Bathyporeia guilliamsoniana	28	6			1																														1
	Bathyporeia tenuipes																																				
	Melitidae																																				
	Cheirocratus sundevallii								1																												
	Othomaera othonis							1																													
	Maerella tenuimana								1																												
	Gammaropsis maculata									1																											
	Photis longicaudata																			2																	
	Aoridae (female)																		1			1						1									
	Aoridae (juv)																				1																
	Autonoe longipes																				1																
	Corophiidae		2																																		

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Phylum Class/Order	Taxon	STATIONS																																							
		TCC_01	TCC_03	TCC_05	TCC_06	TCC_09	TCC_10	TCC_12	TCC_14	TCC_16	TCC_18	TCC_22	TCC_24	TCC_25	TCC_26	TCC_27	TCC_29	TCC_31	TCC_32	TCC_35	TCC_37	TCC_39	TCC_40	TCC_42	TCC_43	TCC_45	TCC_46	TCC_47	TCC_48	TCC_49	TCC_52	TCC_53	TCC_54	TCC_55	TCC_56	TCC_57	TCC_61
	Dyopedos monacantha																				1																						
	Caprella linearis																					4																					
	Pariambus typicus																													1	1											
	Phtisica marina																					3			1																		
	Hyperiidae																																		1							
	Gnathiidae (juv)																																									
	Gnathia oxyuraea																																									
	Astacilla dilatata																			1																						
	Araphura brevimana																																1									
	Akanthophoreus gracilis							1																																		
	Bodotria scorpioides																																									
	Eudorella emarginata																							1									1		1							
	Eudorellopsis deformis								1			1																				1										
	Diastylis								1																							1										
	Diastylis bradyi										1																	1			1										3
	Diastylis laevis																			1																						
	Diastylis rugosa																																									
	DECAPODA (juv)										1																															
	Pandalina brevirostris																																									
	Crangonidae																																									
	Philocheras bispinosus bispinosus				1																				1																	
	Philocheras trispinosus																																1									
	Crangon allmanni														1					1																						
	Callianassa (juv)																						1				1															
	Callianassa subterranea																1																									
	Paguridae (juv)							1	1		1																															
	Anapagurus									1																																
	Anapagurus hyndmanni							1																																		
	Pagurus bernhardus										1																															
	Galathea																																									
	Galathea (juv)									1																																
	Galathea intermedia					1																																				
	Pisidia longicornis																																									
	Ebalia (juv)																															1										
	Ebalia tuberosa									1																																
	Hyas (juv)																					1																					
	Hyas coarctatus																																									
	Inachus dorsettensis									1																																

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Teesside Cable Corridor

Phylum Class/Order	Taxon	STATIONS																																							
		TCC_01	TCC_03	TCC_05	TCC_06	TCC_09	TCC_10	TCC_12	TCC_14	TCC_16	TCC_18	TCC_22	TCC_24	TCC_25	TCC_26	TCC_27	TCC_29	TCC_31	TCC_32	TCC_35	TCC_37	TCC_39	TCC_40	TCC_42	TCC_43	TCC_45	TCC_46	TCC_47	TCC_48	TCC_49	TCC_52	TCC_53	TCC_54	TCC_55	TCC_56	TCC_57	TCC_61
	Corystes cassivelaunus																																									
	Liocarcinus (juv)																																									
	Liocarcinus holsatus																																									
Mollusca - Caudofoveata	*Chaetoderma nitidulum*					2	2										1					1		3		1	1	1	1		1											
Polyplacophora	POLYPLACOPHORA (juv)																																									
	Leptochiton asellus																																									
Gastropoda	*Polinices* (juv)																																									
	Euspira pulchella														1																				1							
	Epitonium trevelyanum													1																												
	Vitreolina philippi																					2	1					1														
	Buccinum undatum																																									
	Raphitoma linearis																						1																			
	CEPHALASPIDEA																																									
	Acteon tornatilis																													1			3		1							
	Philine									1	2							2	1	3	1	4	2		1		1	1		3	1	3		3	3							
	Cylichna cylindracea					2	3		1			2	8				3	1	1										1	2	1	1	3		5						
	Roxania utriculus																					1								1												
	Goniodoris nodosa																																									
	Onchidoridídae																																									
	Dendronotus frondosus																					1																				
	Facelina																																									
Scaphopoda	*Antalis entalis*							1				1	2									1	1	1				4		1	1		1								
Bivalvia	*Nucula hanleyi*																																									
	Nucula nitidosa			4	26								17																			1	8	2	4						
	Nucula nucleus																																									
	Ennucula tenuis				2				1	1	8	5		1	3			4	1	1		1	1		1		1		1												
	Pectinidae (juv)																																									
	Anomiidae (juv)																																									
	Lucinoma borealis							1	1			1							1	2			1	1	1					1	4	1	4	3	2					
	Thyasira																										1		2			1									
	Thyasira flexuosa				1	2		4	2	1			4	1			2	1				1		4				2	1		1	5	9	7	1					
	Thyasira equalis																						1		7		3		1			1								
	Thyasira biplicata						4																		5				3												
	Montacuta substriata																																									
	Kurtiella bidentata		1			8	4				1	3																							1						
	Tellimya ferruginosa			4	3	1													1						1											2	2				
	Astartidae (juv)																																									
	Astarte montagui																																									
	Cardiidae (juv)									1			1					1				1				1		1		1												
	Parvicardium pinnulatum																																									
	Mactridae (juv)	1	2	1	2																		1												1						
	Mactra stultorum																																									1
	Spisula elliptica																																									
	Ensis																																									

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Teesside Cable Corridor

Phylum Class/Order	Taxon	STATIONS																																							
		TCC_01	TCC_03	TCC_05	TCC_06	TCC_09	TCC_10	TCC_12	TCC_14	TCC_16	TCC_18	TCC_22	TCC_24	TCC_25	TCC_26	TCC_27	TCC_29	TCC_31	TCC_32	TCC_35	TCC_37	TCC_39	TCC_40	TCC_42	TCC_43	TCC_45	TCC_46	TCC_47	TCC_48	TCC_49	TCC_52	TCC_53	TCC_54	TCC_55	TCC_56	TCC_57	TCC_61
	Phaxas pellucidus		1	1	2		3	2			1		3		1				1	1	1				1	2		4	2	1		1	1		3							
	Angulus fabula		1	8																															3		6					
	Gari (juv)																																									
	Gari fervensis																																									
	Gari costulata										1																															
	Abra																																									
	Abra (juv)																														2				1							
	Abra nitida						1				1													1				2			1											
	Abra prismatica	2		2	2	1							11																	1	1		5	5	2							
	Arctica islandica (juv)						1					2							1									2														
	Dosinia (juv)																																		2	1						
	Dosinia lupinus										1	1																				1										
	Chamelea striatula		1	4	8	4	2						3			1			1			1	1					1		2		1	1		1							
	Clausinella fasciata																																									
	Timoclea ovata												1															1			1				1							
	Mysia undata																					1																				
	Corbula gibba																													1												
	Hiatella arctica										1							2					1	1																			
	Thracia																																									
	Thracia (juv)			1																																						
	Thracia phaseolina					1																							1						1						
	Cochlodesma praetenue											1			1																					1						
	Lyonsia norwegica																																									
	Cuspidariidae																																1								
	Cuspidariidae (juv)																																									
Echinodermata - Asteroidea	ASTEROIDEA (juv)									1			2										2							2		4	3	1		2						
	Luidia sarsii														1																											
	Astropecten irregularis																1																									
Ophiuroidea	OPHIUROIDEA (juv)			2	5	15	2	1	4	2	7	9	17	3	2	4	1	1	4	4	5	10	5	3	7	3	2	6	6	5	3	9	10	3	14		1				
	Acrocnida brachiata																																									
	Amphiura																				1						2						1								
	Amphiura filiformis				1	39	4		1			5	6	1		1		3		1		2	3	6	2	2		3	2		1	3									
	Ophiuridae (juv)							1	2	4										2								3													
	Ophiura albida								1	1																															
	Ophiocten affinis									1		1									1																				
Echinoidea	ECHINOIDEA (juv)		3	P	1			1	3	1	2	2	2	1	1	1	14	8	9	30	16	31	22		1	1				1			2	6		1	1				
	Echinocyamus pusillus							4	2	12	1		1																						7							
	Spatangus purpureus											1																														
	Echinocardium																																									
	Echinocardium cordatum	1			1	3											1																									
	Echinocardium flavescens											2																														
Holothuroidea	Cucumariidae																																									
	Pseudothyone raphanus								2	1							1	1		2	8	3		1		3	2	5		2	1										
	Leptopentacta elongata					1																																				
	Leptosynapta																																									
	Leptosynapta inhaerens																								1																	

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Teesside Cable Corridor

Phylum Class/Order	Taxon	STATIONS																																										
		TCC_01	TCC_03	TCC_05	TCC_06	TCC_09	TCC_10	TCC_12	TCC_14	TCC_16	TCC_18	TCC_22	TCC_24	TCC_25	TCC_26	TCC_27	TCC_29	TCC_31	TCC_32	TCC_35	TCC_37	TCC_39	TCC_40	TCC_42	TCC_43	TCC_45	TCC_46	TCC_47	TCC_48	TCC_49	TCC_52	TCC_53	TCC_54	TCC_55	TCC_56	TCC_57	TCC_61
	Labidoplax buskii									1							2		2	1	4	1	3	2	1	2		3	1		1						
Foraminifera	*Astrorhiza*						1					5	8	4	4		6	1	4	2		3						8	3		2						
Cnidaria	*Virgularia mirabilis*							1	4			3	1	1																							
	Pennatula phosphorea																	1				1		1				1		1							
	Cerianthus lloydii								1	5	1	1	1				1			1	1	2	4												3		
	ACTINIARIA								2															1	1			1									
	Adamsia palliata																																				
	Edwardsiidae						6	3	1	4															1								1		1		
Platyhelminthes	Turbellaria									1																		1									
	NEMERTEA			3		1	1		10	1	3			1			1		1	2		1	5	3	3	2	1	2	4	3		1	1		6		
Sipuncula	Golfingiidae (juv)								1															1			1										
	Golfingia					1																															
	Golfingia (Golfingia) elongata																										1										
	Phascolion (Phascolion) strombus strombus																			1																	
Pycnogonida	*Nymphon brevirostre*										1																										
	Achelia simplex									1																											
	Anoplodactylus petiolatus										1																										
Phoronida	*Phoronis*			2	1		45	2	5	1	2		2	4	6		1		3	3	1	1	6	2		2				1	6		5	1	4		
Hemichordata	ENTEROPNEUSTA																			1																	
	Individuals	**46**	**37**	**103**	**60**	**92**	**94**	**63**	**115**	**111**	**95**	**66**	**154**	**26**	**31**	**24**	**76**	**46**	**72**	**134**	**117**	**148**	**134**	**153**	**109**	**57**	**112**	**159**	**84**	**77**	**68**	**109**	**129**	**49**	**312**	**41**	**48**
	Taxa	**10**	**13**	**17**	**18**	**21**	**26**	**34**	**51**	**49**	**45**	**29**	**37**	**15**	**16**	**17**	**28**	**25**	**27**	**44**	**31**	**55**	**36**	**36**	**40**	**29**	**36**	**53**	**36**	**44**	**36**	**38**	**39**	**19**	**50**	**16**	**14**

Juveniles

Phylum Class/Order	Taxon	STATIONS																																										
		TCC_01	TCC_03	TCC_05	TCC_06	TCC_09	TCC_10	TCC_12	TCC_14	TCC_16	TCC_18	TCC_22	TCC_24	TCC_25	TCC_26	TCC_27	TCC_29	TCC_31	TCC_32	TCC_35	TCC_37	TCC_39	TCC_40	TCC_42	TCC_43	TCC_45	TCC_46	TCC_47	TCC_48	TCC_49	TCC_52	TCC_53	TCC_54	TCC_55	TCC_56	TCC_57	TCC_61
Taxa excluded in Statistical Analysis																																												
Cnidaria	FILIFERA																																												
	Bougainvilliidae													P																															
	Lovenella clausa																																		P										
	Halecium																																												
	Abietinaria abietina																																												
	Sertularella																																												
	Sertularia																																												
	Sertularia distans																																												
	Plumulariidae																					P	P																						
	Campanulariidae																																												
	Clytia hemisphaerica																																												
	Alcyonium digitatum																																												
Nematoda	NEMATODA									3				1									1		9	2		29								2		

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Teesside Cable Corridor

Phylum Class/Order	Taxon	STATIONS																																					
		TCC_01	TCC_03	TCC_05	TCC_06	TCC_09	TCC_10	TCC_12	TCC_14	TCC_16	TCC_18	TCC_22	TCC_24	TCC_25	TCC_26	TCC_27	TCC_29	TCC_31	TCC_32	TCC_35	TCC_37	TCC_39	TCC_40	TCC_42	TCC_43	TCC_45	TCC_46	TCC_47	TCC_48	TCC_49	TCC_52	TCC_53	TCC_54	TCC_55	TCC_56	TCC_57	TCC_61
Bryozoa	*Crisia*										P																												
	Tubulipora										P																												
	Alcyonidium diaphanum											P																											
	Alcyonidium parasiticum									P				P																									
	Eucratea loricata											P		P																									
	Electra pilosa									P																													
	Flustra foliacea																																						
	Callopora dumerilii																																						
	Amphiblestrum auritum										P																												
	Bugula									P																													
	Bugula avicularia																						P																
	Bugula purpurotincta																					P																	
	Scrupocellaria scabra																																						
	Palmiskenea skenei																																						

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Teesside Cable Corridor

Table E.5 **Teesside Cable Corridor Macrofauna Taxa List - Stations TCC_62 to TCC_120**

Phylum Class/Order	Taxon	STATIONS																																			Total
		TCC_62	TCC_64	TCC_71	TCC_75	TCC_76	TCC_78	TCC_79	TCC_80	TCC_82	TCC_84	TCC_85	TCC_86	TCC_87	TCC_90	TCC_92	TCC_93	TCC_94	TCC_95	TCC_97	TCC_99	TCC_100	TCC_101	TCC_102	TCC_103	TCC_106	TCC_107	TCC_109	TCC_111	TCC_112	TCC_113	TCC_114	TCC_115	TCC_116	TCC_118	TCC_120	
Taxa included in Statistical Analysis																																					
ANNELIDA - Polychaeta	Aphroditidae (juv)			1																							1									3
	Aphrodita aculeata																																	1		1
	Polynoidae (juv)				3																													1		7
	Enipo kinbergi																				1															1
	Gattyana cirrhosa																																			2
	Harmothoe antilopes																																	1		1
	Harmothoe imbricata																																			1
	Harmothoe mariannae				1																															1
	Malmgreniella castanea																																			1
	Malmgreniella darbouxi																		1																	2
	Harmothoe glabra																																			1
	Lepidonotus squamatus				1	1																														2
	Pholoe baltica (sensu Petersen)			1		1																						2				10	2	16		44
	Pholoe inornata (sensu Petersen)																																			2
	Sigalionidae			1																																1
	Sigalion mathildae	2																													1			1		4
	Sigalion squamosus		2																																	2
	Sthenelais																											2								3
	Sthenelais limicola										2		1	1	2			1	3			3	3	1	3	1		1			3	3			2		43
	Eteone longa												1																				2	3	1	17
	Phyllodoce																																			1
	Phyllodoce groenlandica			1																	1	1							1							16
	Phyllodoce rosea																																	2		2
	Eulalia			1																																1
	Eulalia bilineata																																			1
	Eumida				3																															5
	Eumida (juv)																																			1
	Eumida bahusiensis																																1			1
	Eumida sanguinea						1																													1
	Glycera (juv)					1		6		1															1											15
	Glycera alba					1															1											3				7
	Glycera lapidum			4	4	3	2		1	3																											22
	Glycera unicornis																																			14
	Goniadidae (juv)																		1				1							1			2	1	2		13
	Glycinde nordmanni		2	1		1			1							1			1															2	1	17
	Goniada maculata						1	1	1	1			1	1	1	2	1	1		1			1		2	1			3		1	2	1	1	5		78
	Oxydromus flexuosus															1									1											5
	Podarkeopsis capensis																																	1		6
	Glyphohesione klatti			1					1	1																										5
	Exogone (Parexogone) hebes																																			1
	Exogone (Exogone) naidina																																			1
	Exogone (Exogone) verugera			2				1																										1		7
	Sphaerosyllis taylori			2																																2
	Proceraea				1																															2

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Phylum Class/Order	Taxon	STATIONS																																			Total
		TCC_62	TCC_64	TCC_71	TCC_75	TCC_76	TCC_78	TCC_79	TCC_80	TCC_82	TCC_84	TCC_85	TCC_86	TCC_87	TCC_90	TCC_92	TCC_93	TCC_94	TCC_95	TCC_97	TCC_99	TCC_100	TCC_101	TCC_102	TCC_103	TCC_106	TCC_107	TCC_109	TCC_111	TCC_112	TCC_113	TCC_114	TCC_115	TCC_116	TCC_118	TCC_120	
	Nereididae (juv)																									1		1									**3**
	Eunereis longissima																															1					**3**
	Aglaophamus agilis						1																														**1**
	Nephtys (juv)	2	2											1						1	1	1										1	2	1	3		**36**
	Nephtys assimilis	1																	1				1							1				1	2	**12**
	Nephtys caeca														2			1	2					1										1			**8**
	Nephtys cirrosa															2																					**11**
	Nephtys hombergii	1											1																1		1	2					**15**
	Nephtys kersivalensis																																	1			**6**
	Nephtys longosetosa																																				**1**
	Paramphinome jeffreysii					1			4	4	1	2	1	7	1	2	2		4	2	3	4	1	3	14	9	16	8	2								**341**
	Lumbrineris cingulata			25	8	5																															**71**
	Arabella iricolor			1																																	**1**
	Orbinia latreillii	1																																			**1**
	Scoloplos (Scoloplos) armiger									3	6	4	7	9			3	4	7	4	7	4	1	10	12		1	1	4	6	2		3	6	2		**164**
	Aricidea (Acmira) catherinae							2		1								1			4																**8**
	Aricidea simonae						6	1		1										1																		**9**
	Levinsenia gracilis			1					1	1							1							1			2										**21**
	Paradoneis lyra			1	1																																**4**
	Apistobranchus tullbergi																								1												**4**
	Poecilochaetus serpens																			1									3					1			**10**
	Aonides paucibranchiata			2						1		1		1				2		1													1				**18**
	Laonice				1																																**1**
	Laonice bahusiensis					1																															**5**
	Laonice sarsi																																				**2**
	Minuspio cirrifera				2				1																1												**10**
	Dipolydora caeca			1						1																											**3**
	Dipolydora caulleryi					1																															**1**
	Pseudopolydora paucibranchiata																																				**1**
	Scolelepis						2																														**5**
	Scolelepis bonnieri		1													1																					**4**
	Scolelepis (Scolelepis) foliosa																																				**1**
	Scolelepis korsuni													2					3	2	1																**11**
	Spio goniocephala																																				**1**
	Spiophanes bombyx	1	1				3	5	9	2	1	2	1		4		2	4	3	1	3	2	1	4	4	5	1	6	18	27	9	28	31	40	65	27	**581**
	Spiophanes kroyeri				2		1	1	2		1								1						2	1			3		1		1		1		**45**
	Magelona alleni																																	3	1		**7**
	Magelona filiformis		4			2			1							1	1					1												3	3	2	**63**
	Magelona johnstoni	6	5			1																													1	3	**89**
	Chaetopterus variopedatus																																				**1**
	Aphelochaeta (Type A)							1												1																	**3**
	Chaetozone christiei							1		3	4		1		3			3	1	3		2	2						3			1	3	3	3	2	**48**
	Chaetozone setosa					1						3		1					1			1		7	3	1	2	1									**62**
	Caulleriella zetlandica			1		1																															**4**
	Cirratulus caudatus																		1																		**5**
	Cauleriella killariensis			1										1					1																		**7**

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Teesside Cable Corridor

Phylum Class/Order	Taxon	STATIONS																																			Total
		TCC_62	TCC_64	TCC_71	TCC_75	TCC_76	TCC_78	TCC_79	TCC_80	TCC_82	TCC_84	TCC_85	TCC_86	TCC_87	TCC_90	TCC_92	TCC_93	TCC_94	TCC_95	TCC_97	TCC_99	TCC_100	TCC_101	TCC_102	TCC_103	TCC_106	TCC_107	TCC_109	TCC_111	TCC_112	TCC_113	TCC_114	TCC_115	TCC_116	TCC_118	TCC_120	
	Diplocirrus glaucus										2							1								4	2	7			2	1		2	3		**60**
	Pherusa plumosa				2																																**2**
	Heteromastus filiformis																2				1		1		1	1											**17**
	Mediomastus fragilis																																				**2**
	Notomastus latericeus																									3										1	**18**
	Peresiella clymenoides			10	3																							1									**25**
	Maldanidae																																				**3**
	Clymenura								1																												**1**
	Euclymene (Type A)																																				**1**
	Praxillella affinis																								4	12	6										**71**
	Rhodine																																				**2**
	Rhodine gracilior																																				**5**
	Ophelia (juv)																																				**1**
	Ophelia borealis						5	5	5	11						3				6	1								20				2		1		**59**
	Ophelina acuminata			2																									1								**5**
	Polyphysia crassa																																				**1**
	Scalibregma inflatum																											1				2		1		**5**
	Galathowenia oculata				1		11		6				2	13	7	5	7	4	1	2	1		2	2	17	77	44	74									**409**
	Myriochele danielsseni							4									3						5	1	2		1	9									**47**
	Owenia fusiformis			7			2		1		1			4	3	8	3	4	3	4	1	1	3		5	3	1	2								1	**124**
	Pectinariidae (juv)																																				**4**
	Amphictene auricoma				1																					1				4	5	9	22	1	2	2	**78**
	Lagis koreni									1		1																	5	1	1	4	8	3	12	4	**103**
	Ampharetidae			2		1																			2		1	1									**17**
	Ampharete falcata													1	1				2						1	10	7	1	1								**100**
	Ampharete finmarchica																																				**3**
	Ampharete lindstroemi			3																					1		2	3									**42**
	Amphicteis gunneri																																				**1**
	Anobothrus gracilis				1			1	1																												**5**
	Terebellides stroemii			1	19	1	1																														**28**
	Trichobranchus roseus				12																		1					3									**37**
	Terebellidae (juv)																																				**1**
	Eupolymnia nesidensis				7																																**7**
	Lanice conchilega																													2						1	**5**
	Phisidia aurea				2																																**2**
	Pista cristata							1	1																												**2**
	Polycirrus				3		2																														**6**
	Streblosoma bairdi																																				**1**
	Streblosoma intestinale																										1										**4**
	Thelepus cincinnatus																																				**1**
	Thelepus setosus																																				**2**
	Sabellidae																																				**1**
	Sabellidae (juv)																																				**2**
	Chone dunerificta				3																																**3**
	Euchone rubrocincta					1																															**2**
	Serpulidae				7	19																															**34**

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Teesside Cable Corridor

Phylum Class/Order	Taxon	STATIONS																																		Total
		TCC_62	TCC_64	TCC_71	TCC_75	TCC_76	TCC_78	TCC_79	TCC_80	TCC_82	TCC_84	TCC_85	TCC_86	TCC_87	TCC_90	TCC_92	TCC_93	TCC_94	TCC_95	TCC_97	TCC_99	TCC_100	TCC_101	TCC_102	TCC_103	TCC_106	TCC_107	TCC_109	TCC_111	TCC_112	TCC_113	TCC_114	TCC_115	TCC_116	TCC_118	TCC_120	
	Hydroides norvegicus				16	5			1																											53
	Spirobranchus				5																															5
	Spirobranchus lamarcki																																	1		1
	Spirobranchus triqueter				35	24																														60
ARTHROPODA - Crustacea	*Sarsinebalia urgorrii*								2																											2
	Schistomysis ornata													1																						1
	Apherusa bispinosa																																			1
	Eusirus longipes				1																															1
	Perioculodes longimanus													1																						1
	Pontocrates altamarinus													1			1																			2
	Synchelidium maculatum																													1						1
	Westwoodilla caecula			1					1							1										1		1								8
	Parapleustes assimilis																																			1
	Stenopleustes nodifera																																			1
	Leucothoe incisa																																			1
	Leucothoe lilljeborgi																																			1
	Urothoe elegans						1	1	3	1					1					2									1							12
	Harpinia antennaria										1	1		1	1	2	7	5	3		2	1	1	1	4	1		1	1	2	1			1			87
	Harpinia pectinata																										1										1
	Hippomedon denticulatus			1							1			1			1			1	1				2											16
	Lepidepecreum longicornis				1	1																								1						3
	Scopelocheirus hopei					1								1						1																3
	Tmetonyx cicada																																			4
	Nototropis falcatus		1																																	1
	Atylus vedlomensis			1	1																	1														8
	Ampelisca			2																										1			1				8
	Ampelisca brevicornis																					1							3	4	2	2		2	3	1	26
	Ampelisca diadema													1																						5
	Ampelisca macrocephala														2		1		1																	8
	Ampelisca spinipes			6		1	2																						1				1				17
	Ampelisca tenuicornis			1																						2		2				1		1			24
	Bathyporeia		2																																	5
	Bathyporeia elegans	3	3							3	1	1		1	1	2	1			1									5	1						1	33
	Bathyporeia gracilis						1	4						1					2												1	2					13
	Bathyporeia guilliamsoniana																																			36
	Bathyporeia tenuipes																		2											1						3
	Melitidae				1					1																										2
	Cheirocratus sundevallii																																			1
	Othomaera othonis				1																															2
	Maerella tenuimana																																			1
	Gammaropsis maculata																																			1
	Photis longicaudata																																			2
	Aoridae (female)									1							1																			5
	Aoridae (juv)																																			1
	Autonoe longipes																																			1
	Corophiidae		4							1																										7

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Teesside Cable Corridor

Phylum Class/Order	Taxon	STATIONS																																				Total
		TCC_62	TCC_64	TCC_71	TCC_75	TCC_76	TCC_78	TCC_79	TCC_80	TCC_82	TCC_84	TCC_85	TCC_86	TCC_87	TCC_90	TCC_92	TCC_93	TCC_94	TCC_95	TCC_97	TCC_99	TCC_100	TCC_101	TCC_102	TCC_103	TCC_106	TCC_107	TCC_109	TCC_111	TCC_112	TCC_113	TCC_114	TCC_115	TCC_116	TCC_118	TCC_120	
	Dyopedos monacantha																																					**1**
	Caprella linearis																																					**4**
	Pariambus typicus																											1										**3**
	Phtisica marina																																					**4**
	Hyperiidae																						1															**2**
	Gnathiidae (juv)																																1					**1**
	Gnathia oxyuraea																																1					**1**
	Astacilla dilatata													1														2										**4**
	Araphura brevimana																																					**1**
	Akanthophoreus gracilis																																					**1**
	Bodotria scorpioides			3																																		**3**
	Eudorella emarginata																1																					**4**
	Eudorellopsis deformis																	1				2			1													**7**
	Diastylis																																					**2**
	Diastylis bradyi																								2													**8**
	Diastylis laevis																									1												**2**
	Diastylis rugosa																												3				1					**4**
	DECAPODA (juv)																																					**1**
	Pandalina brevirostris				1																																	**1**
	Crangonidae																								2								1					**3**
	Philocheras bispinosus bispinosus																																					**2**
	Philocheras trispinosus	1																																				**2**
	Crangon allmanni																																					**2**
	Callianassa (juv)									1															1													**4**
	Callianassa subterranea																																					**1**
	Paguridae (juv)																																					**3**
	Anapagurus																																					**1**
	Anapagurus hyndmanni																																					**1**
	Pagurus bernhardus																																					**1**
	Galathea			1																																		**1**
	Galathea (juv)		1		23	2																																**27**
	Galathea intermedia				5																												2					**8**
	Pisidia longicornis				1																																	**1**
	Ebalia (juv)													1																		1						**3**
	Ebalia tuberosa																																					**1**
	Hyas (juv)																																					**1**
	Hyas coarctatus				1																																	**1**
	Inachus dorsettensis																																					**1**

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Teesside Cable Corridor

Phylum Class/Order	Taxon	STATIONS																																					Total
		TCC_62	TCC_64	TCC_71	TCC_75	TCC_76	TCC_78	TCC_79	TCC_80	TCC_82	TCC_84	TCC_85	TCC_86	TCC_87	TCC_90	TCC_92	TCC_93	TCC_94	TCC_95	TCC_97	TCC_99	TCC_100	TCC_101	TCC_102	TCC_103	TCC_106	TCC_107	TCC_109	TCC_111	TCC_112	TCC_113	TCC_114	TCC_115	TCC_116	TCC_118	TCC_120	
	Corystes cassivelaunus																																				1	1
	Liocarcinus (juv)			2																			1															3
	Liocarcinus holsatus				2																																	2
MOLLUSCA - Caudofoveata	*Chaetoderma nitidulum*														1								1	1	2	6		1										26
Polyplacophora	POLYPLACOPHORA (juv)					2																																2
	Leptochiton asellus				5	1																																6
Gastropoda	*Polinices* (juv)																															1						1
	Euspira pulchella																																					2
	Epitonium trevelyanum																																					1
	Vitreolina philippi																																					4
	Buccinum undatum																															1						1
	Raphitoma linearis																																					1
	CEPHALASPIDEA									1																												1
	Acteon tornatilis													1												2					2							10
	Philine													2			2		3		2	1		1		1	1		2	4	1		2					54
	Cylichna cylindracea					1					1								2				1	1	1				1	2	3	2		2	1			52
	Roxania utriculus																																					2
	Goniodoris nodosa				1																																	1
	Onchidoridae				1	1																																2
	Dendronotus frondosus																																					1
	Facelina				2																																	2
Scaphopoda	*Antalis entalis*										1					1									1													17
Bivalvia	*Nucula hanleyi*																															1						1
	Nucula nitidosa	1	1								2	2											1					1	4	5	3	16		3			101
	Nucula nucleus				2																																	2
	Ennucula tenuis			1		1				1			1	5	7	4	1	4	4	2	2						1	1	1									68
	Pectinidae (juv)			1																																		1
	Anomiidae (juv)					1																																1
	Lucinoma borealis										1		1		1													2		1	3		2					35
	Thyasira																																					4
	Thyasira flexuosa																					1	1	1	3	1		1			3	1		2				63
	Thyasira equalis																								2		5	4										24
	Thyasira biplicata																																					12
	Montacuta substriata								1																													1
	Kurtiella bidentata									4	2			4	5	1					13									3		1	2					53
	Tellimya ferruginosa					1		1			3				1																		2		2			24
	Astartidae (juv)																	1																				1
	Astarte montagui									1																													1
	Cardiidae (juv)				1																		1			1						1						11
	Parvicardium pinnulatum				2																																	2
	Mactridae (juv)	6								1		1	1		1			1	1					1						1								22
	Mactra stultorum																																					1
	Spisula elliptica														1																							1
	Ensis		1																																			1

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Teesside Cable Corridor

Phylum Class/Order	Taxon	STATIONS																																								Total
		TCC_62	TCC_64	TCC_71	TCC_75	TCC_76	TCC_78	TCC_79	TCC_80	TCC_82	TCC_84	TCC_85	TCC_86	TCC_87	TCC_90	TCC_92	TCC_93	TCC_94	TCC_95	TCC_97	TCC_99	TCC_100	TCC_101	TCC_102	TCC_103	TCC_106	TCC_107	TCC_109	TCC_111	TCC_112	TCC_113	TCC_114	TCC_115	TCC_116	TCC_118	TCC_120	
	Phaxas pellucidus			1				2		1	1		3				1			1					4	2			2	2	1	2	2	6	3	2	**68**
	Angulus fabula	5	4																													11		12	4	18	**72**
	Gari (juv)																																		1	2	**3**
	Gari fervensis																																		1		**1**
	Gari costulata																																				**1**
	Abra			1																																	**1**
	Abra (juv)							3					2					1	2								1	5				2			1		**20**
	Abra nitida																2									1		1			1			1			**12**
	Abra prismatica	1	11				3		1	3		4				1	1		1				1						7	8	4	4		13	3	1	**99**
	Arctica islandica (juv)		1							1				1							1																**10**
	Dosinia (juv)			3						1																				2					2	1	**12**
	Dosinia lupinus				1				1		1																							1				**7**
	Chamelea striatula	2										3	1	1	1		3	1				2			1	2	1	2	1		2	1		1	2		**59**
	Clausinella fasciata					1																	2	1													**4**
	Timoclea ovata																																1				**5**
	Mysia undata																																				**1**
	Corbula gibba																																				**1**
	Hiatella arctica					1																	1					1									**8**
	Thracia							1																									1				**2**
	Thracia (juv)		1																															1	2		**5**
	Thracia phaseolina																														5		3	1	1	**13**
	Cochlodesma praetenue			1					2									1										2	3		1						**13**
	Lyonsia norwegica			1																																	**1**
	Cuspidariidae																																				**1**
	Cuspidariidae (juv)																											1									**1**
ECHINODERMATA - Asteroidea	ASTEROIDEA (juv)				1																			1					2	3	1	3		1		1	**30**
	Luidia sarsii																																				**1**
	Astropecten irregularis																																				**1**
Ophiuroidea	OPHIUROIDEA (juv)	1		5	3	1	1	2		4		7	1	17		5	8	8		7	11		10	36	21	10	7	2	17	15	10	3	6	7		1	**401**
	Acrocnida brachiata																																		10		**10**
	Amphiura					1																															**5**
	Amphiura filiformis			4						5	1		1	3	2	1			1	2	2	2	1		8		2	1	10	17	8	16	22	8	4		**207**
	Ophiuridae (juv)			1		2												1	2			1					1					1			6		**27**
	Ophiura albida					1																															**3**
	Ophiocten affinis														1	1																					**5**
Echinoidea	ECHINOIDEA (juv)		5		4							4	2	6		12	7	6	5		5				7			2	2		4	1		1			**234**
	Echinocyamus pusillus			4	8	9	16	17	7	9	1	3		1	5	6	3	4	5	8	3								19	3			2		2		**162**
	Spatangus purpureus								1																												**2**
	Echinocardium																							1													**1**
	Echinocardium cordatum	1									1																						1		1		**10**
	Echinocardium flavescens		1					1	2					1			1		1											1							**10**
Holothuroidea	Cucumariidae					1																															**1**
	Pseudothyone raphanus								2											1					3	3		2										**43**
	Leptopentacta elongata												1																									**2**
	Leptosynapta					2																																**2**
	Leptosynapta inhaerens				2																																	**3**

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Teesside Cable Corridor

Phylum Class/Order	Taxon	STATIONS																																					Total
		TCC_62	TCC_64	TCC_71	TCC_75	TCC_76	TCC_78	TCC_79	TCC_80	TCC_82	TCC_84	TCC_85	TCC_86	TCC_87	TCC_90	TCC_92	TCC_93	TCC_94	TCC_95	TCC_97	TCC_99	TCC_100	TCC_101	TCC_102	TCC_103	TCC_106	TCC_107	TCC_109	TCC_111	TCC_112	TCC_113	TCC_114	TCC_115	TCC_116	TCC_118	TCC_120	
	Labidoplax buskii					1												1					1					4										31
Foraminifera	*Astrorhiza*			3					4	1	3			16	9	12	6	9	11	10	11		1															147
Cnidaria - Anthozoa	*Virgularia mirabilis*								1	1			1		1																							14
	Pennatula phosphorea																																						5
	Cerianthus lloydii			4	2	3	1	1	2					1												1												36
	ACTINIARIA								6														1															12
	Adamsia palliata				1																																		1
	Edwardsiidae					4																						1		2									24
Platyhelminthes	Turbellaria																																						2
	NEMERTEA				3	2	3	5						1		1	1			2			1		3	6	5			1	1		3		3			97
Sipuncula	Golfingiidae (juv)						1																																4
	Golfingia																																						1
	Golfingia (Golfingia) elongata																																						1
	Phascolion (Phascolion) strombus strombus																					1																	2
ARTHROPODA - Pycnogonida	*Nymphon brevirostre*																																						1
	Achelia simplex																																						1
	Anoplodactylus petiolatus																							1															2
Phoronida	*Phoronis*								3	1	2		5		2	1		1			1	1	1	1	1		1		1		3	4	3	6	1		145
Hemichordata	ENTEROPNEUSTA																					1				1												3
	Individuals	**35**	**53**	**121**	**221**	**114**	**67**	**68**	**77**	**77**	**42**	**38**	**37**	**113**	**67**	**77**	**74**	**71**	**83**	**68**	**80**	**35**	**51**	**77**	**146**	**172**	**113**	**160**	**156**	**124**	**80**	**133**	**152**	**142**	**193**	**77**	**6745**
	Taxa	**16**	**20**	**46**	**53**	**44**	**22**	**24**	**33**	**35**	**25**	**14**	**22**	**37**	**27**	**25**	**29**	**26**	**34**	**26**	**25**	**22**	**31**	**21**	**38**	**32**	**25**	**38**	**36**	**31**	**29**	**32**	**38**	**34**	**50**	**23**	**329**

Juveniles

Phylum Class/Order	Taxon	STATIONS																																					Total
		TCC_62	TCC_64	TCC_71	TCC_75	TCC_76	TCC_78	TCC_79	TCC_80	TCC_82	TCC_84	TCC_85	TCC_86	TCC_87	TCC_90	TCC_92	TCC_93	TCC_94	TCC_95	TCC_97	TCC_99	TCC_100	TCC_101	TCC_102	TCC_103	TCC_106	TCC_107	TCC_109	TCC_111	TCC_112	TCC_113	TCC_114	TCC_115	TCC_116	TCC_118	TCC_120	
Taxa excluded in Statistical Analysis																																							
Cnidaria	FILIFERA																			P																			
	Bougainvilliidae																																						
	Lovenella clausa																																						
	Halecium			P																																			
	Abietinaria abietina			P																																			
	Sertularella					P																																	
	Sertularia				P																																		
	Sertularia distans				P																																		
	Plumulariidae																																						
	Campanulariidae				P																																		
	Clytia hemisphaerica																	P																					
	Alcyonium digitatum			P		P																										P							
Nematoda	NEMATODA		35																													3	1						**86**

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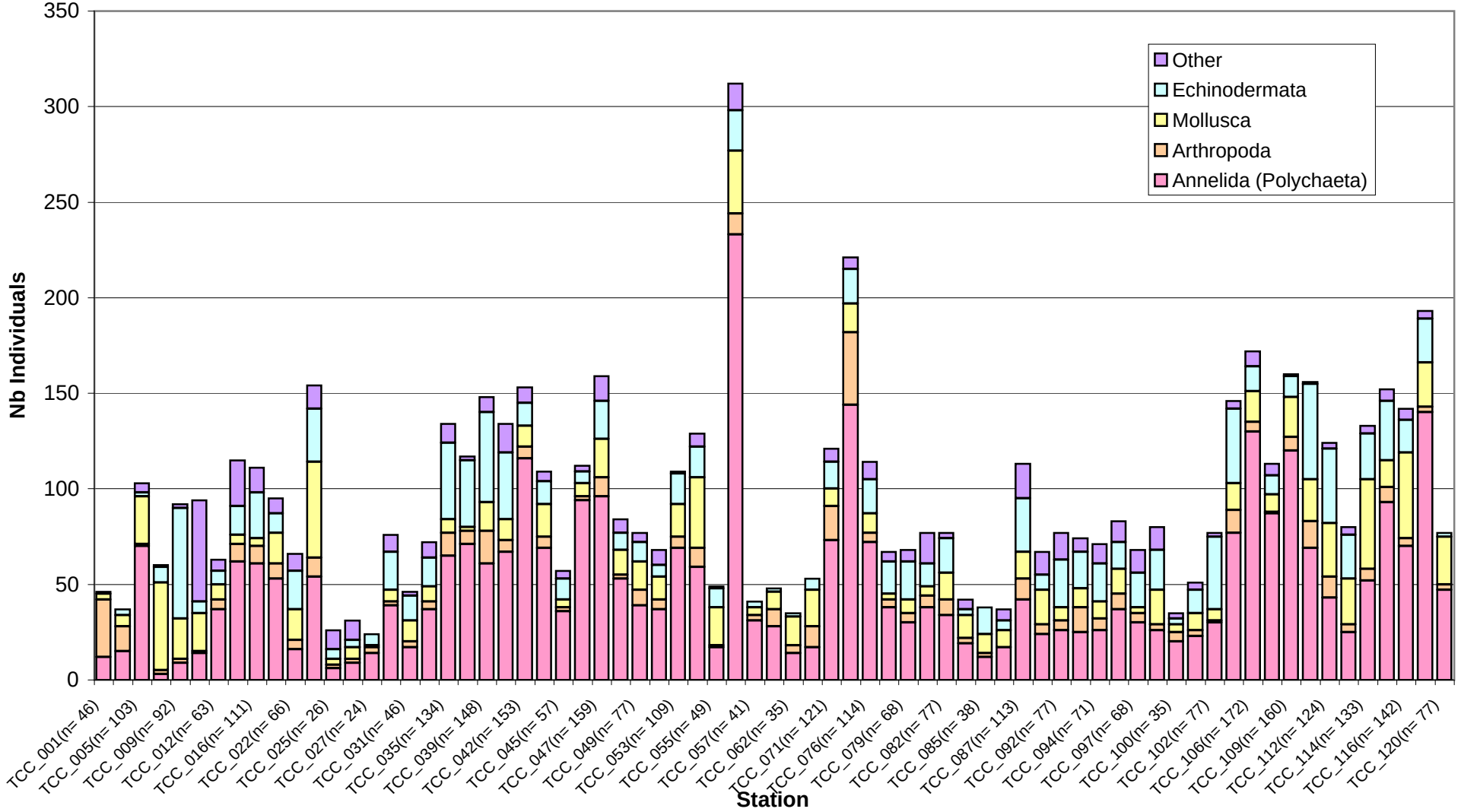
Teesside Cable Corridor

Phylum Class/Order	Taxon	STATIONS																																					Total
		TCC_62	TCC_64	TCC_71	TCC_75	TCC_76	TCC_78	TCC_79	TCC_80	TCC_82	TCC_84	TCC_85	TCC_86	TCC_87	TCC_90	TCC_92	TCC_93	TCC_94	TCC_95	TCC_97	TCC_99	TCC_100	TCC_101	TCC_102	TCC_103	TCC_106	TCC_107	TCC_109	TCC_111	TCC_112	TCC_113	TCC_114	TCC_115	TCC_116	TCC_118	TCC_120	
Bryozoa	*Crisia*					P																																	
	Tubulipora																																						
	Alcyonidium diaphanum																																						
	Alcyonidium parasiticum			P		P				P																													
	Eucratea loricata					P		P	P						P																									
	Electra pilosa																																						
	Flustra foliacea	P																																					
	Callopora dumerilii														P																								
	Amphiblestrum auritum																																						
	Bugula																																						
	Bugula avicularia																																						
	Bugula purpurotincta																																						
	Scrupocellaria scabra					P																																	
	Palmiskenea skenei																		P																				

APPENDIX E – MACROFAUNAL ANALYSIS

Teesside Cable Corridor

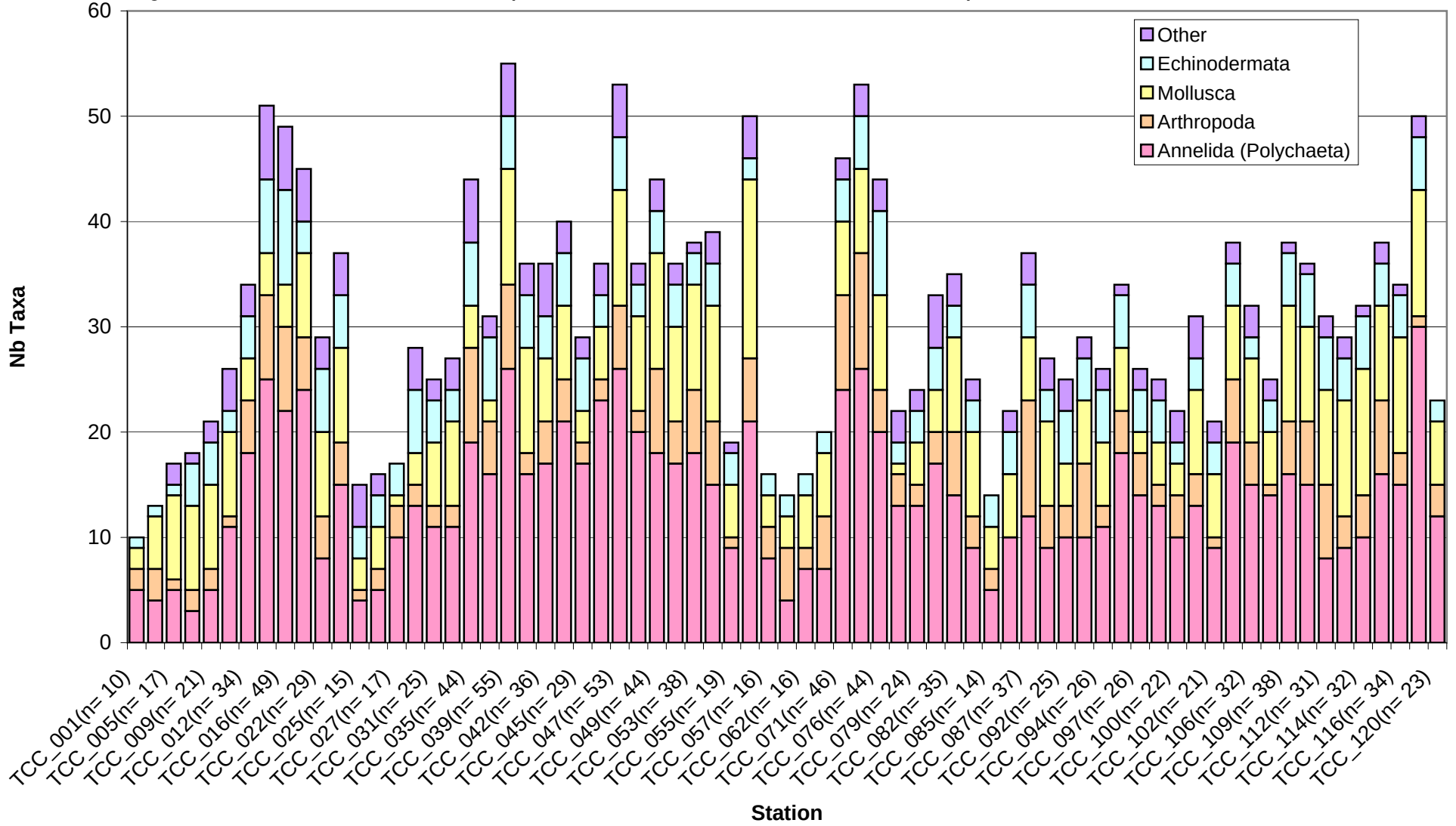
Figure E.3 Teesside Cable Corridor Proportional Individual Contribution of Gross Taxonomic Groups



APPENDIX E – MACROFAUNAL ANALYSIS

Teesside Cable Corridor

Figure E.4 Teesside Cable Corridor Proportional Taxa Contribution of Gross Taxonomic Groups



APPENDIX E – MACROFAUNAL ANALYSIS

Teesside Cable Corridor

Table E.6 Teesside Cable Corridor Benthic Biomass (g Ash-Free Dry Weight)

Station	Annelida (g)	Crustacea (g)	Mollusca (g)	Echinodermata (g)	Miscellania (g)	Total
TCC_01	0.0283	0.0081	0.0008	0.1798	-	0.2170
TCC_03	0.0120	0.0027	0.0020	0.0048	0.0000	0.0215
TCC_05	0.0542	0.0000	0.0108	0.1191	0.0026	0.1867
TCC_06	0.0086	0.0023	0.0439	0.1936	0.0003	0.2487
TCC_09	0.0132	0.0002	0.0166	1.1559	0.1696	1.3555
TCC_10	0.3331	0.0036	0.0130	0.0095	3.2564	3.6156
TCC_12	0.0426	0.0136	0.0744	0.0018	0.0114	0.1438
TCC_14	0.0436	0.0072	0.0012	0.0177	0.0126	0.0823
TCC_16	0.0857	0.0999	0.0016	0.0087	0.0519	0.2478
TCC_18	0.0632	0.0250	0.6563	0.0037	0.0067	0.7549
TCC_22	0.0625	0.0025	0.1503	0.7708	0.0353	1.0214
TCC_24	0.1164	0.0019	0.2490	0.0201	0.0651	0.4525
TCC_25	0.0076	0.0010	0.0059	0.0040	0.0287	0.0472
TCC_26	0.0207	0.0106	0.0076	0.0017	0.0206	0.0612
TCC_27	0.0484	0.0174	0.0010	0.0085	0.0001	0.0754
TCC_29	0.1053	0.0014	0.0072	0.2490	0.0548	0.4177
TCC_31	0.0124	0.0039	0.0162	0.0170	0.0069	0.0564
TCC_32	0.0311	0.0011	0.0063	0.0024	0.0444	0.0853
TCC_35	0.1295	0.0190	0.0088	0.0054	0.0565	0.2192
TCC_37	0.0741	0.0009	0.0001	0.0360	0.0015	0.1126
TCC_39	0.0817	0.0090	0.0523	0.0218	0.0249	0.1897
TCC_40	0.1572	0.0016	0.0071	0.0058	0.0161	0.1878
TCC_42	0.1262	0.0272	0.0616	0.0294	0.0301	0.2745
TCC_43	0.1578	0.0009	0.0218	0.0121	0.0157	0.2083
TCC_45	0.0465	0.0005	0.0010	0.0141	0.0056	0.0677
TCC_46	0.0365	0.0018	0.0080	0.0117	0.0053	0.0633
TCC_47	0.1480	0.0144	0.2159	0.0354	0.0821	0.4958
TCC_48	0.6375	0.0005	0.0277	0.0065	0.0248	0.6970
TCC_49	0.0978	0.0021	0.0175	0.0512	0.0076	0.1762
TCC_52	0.0288	0.0028	0.0180	0.0676	0.0195	0.1367
TCC_53	0.0418	0.0014	0.0110	0.0117	0.0004	0.0663
TCC_54	0.0578	0.0021	0.0792	0.0107	0.0045	0.1543
TCC_55	0.0923	0.0502	0.0462	0.0419	0.0001	0.2307
TCC_56	0.0937	0.0043	0.3202	0.0095	0.2127	0.6404
TCC_57	0.0611	0.0012	0.0013	0.0186	0.0000	0.0822
TCC_61	0.0325	0.0132	0.0181	0.0099	0.0000	0.0737

APPENDIX E – MACROFAUNAL ANALYSIS

Teesside Cable Corridor

Table E.6 Teesside Cable Corridor Benthic Biomass (g Ash-Free Dry Weight)

Station	Annelida (g)	Crustacea (g)	Mollusca (g)	Echinodermata (g)	Miscellania (g)	Total
TCC_62	0.0582	0.0042	0.0131	0.3818	0.0011	0.4584
TCC_64	0.0136	0.0009	1.3729	0.3861	-	1.7735
TCC_71	0.1552	0.1208	0.1131	0.0155	0.0166	0.4212
TCC_75	0.1953	0.4164	0.6915	0.0113	0.5204	1.8349
TCC_76	0.1002	0.0074	0.0041	0.0866	0.0211	0.2194
TCC_78	0.1197	0.0008	0.0030	0.0061	0.0864	0.2160
TCC_79	0.0248	0.0009	0.0315	0.5670	0.0059	0.6301
TCC_80	0.0523	0.0015	0.0797	0.9093	0.1103	1.1531
TCC_82	0.0227	0.0013	0.0343	0.0170	0.0073	0.0826
TCC_84	0.0222	0.0054	0.0102	1.6355	0.0212	1.6945
TCC_85	0.0077	0.0006	0.0080	0.0028	-	0.0191
TCC_86	0.0432	0.0003	0.0042	0.0649	0.0035	0.1161
TCC_87	0.0403	0.0022	0.0038	1.1124	0.1316	1.2903
TCC_90	0.0693	0.0056	0.0908	0.0149	0.0799	0.2605
TCC_92	0.0797	0.0016	0.0042	0.0080	0.0839	0.1774
TCC_93	0.0161	0.0048	0.0053	0.3565	0.0321	0.4148
TCC_94	0.0403	0.0018	0.1370	0.1988	0.0053	0.3832
TCC_95	0.3377	0.0046	0.0021	0.2144	0.1266	0.6854
TCC_97	0.0250	0.0062	0.0030	0.0067	0.0571	0.0980
TCC_99	0.0364	0.0006	0.0040	0.0097	0.0507	0.1014
TCC_100	0.0314	0.0011	0.0059	0.0014	0.0500	0.0898
TCC_101	0.0939	0.0235	0.0076	0.0038	0.4623	0.5911
TCC_102	0.0502	0.0002	0.0045	0.1020	0.0010	0.1579
TCC_103	0.0693	0.0115	0.0358	0.0249	0.0036	0.1451
TCC_106	0.1420	0.0024	0.0203	0.0507	0.0859	0.3013
TCC_107	0.6298	0.0000	0.0059	0.0009	0.0124	0.6490
TCC_109	0.0388	0.0014	0.0556	0.0073	0.0133	0.1164
TCC_111	0.0302	0.0032	0.0055	0.0290	0.0025	0.0704
TCC_112	0.0814	0.0047	0.1013	0.1160	0.0035	0.3069
TCC_113	0.0235	0.0010	0.1373	0.0360	0.0014	0.1992
TCC_114	0.0660	0.0043	0.0319	0.0665	0.0011	0.1698
TCC_115	0.0343	0.0080	0.0646	0.2294	4.9860	5.3223
TCC_116	0.1008	0.0019	0.2542	0.0365	0.0038	0.3972
TCC_118	0.8339	0.0018	0.0471	0.2027	0.0006	1.0861
TCC_120	0.0760	0.1071	0.0449	0.0003	-	0.2283

APPENDIX E – MACROFAUNAL ANALYSIS

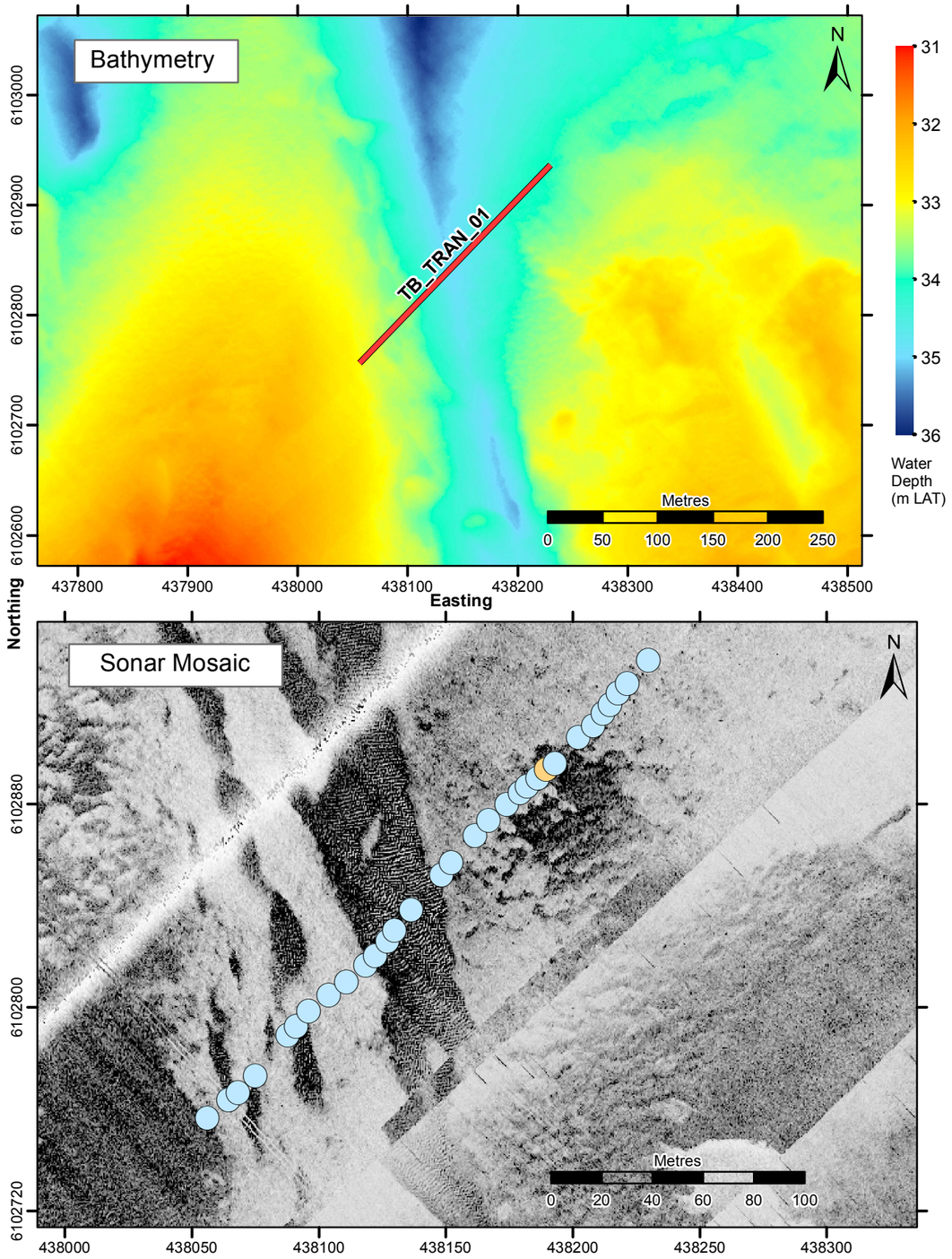
Teesside Cable Corridor

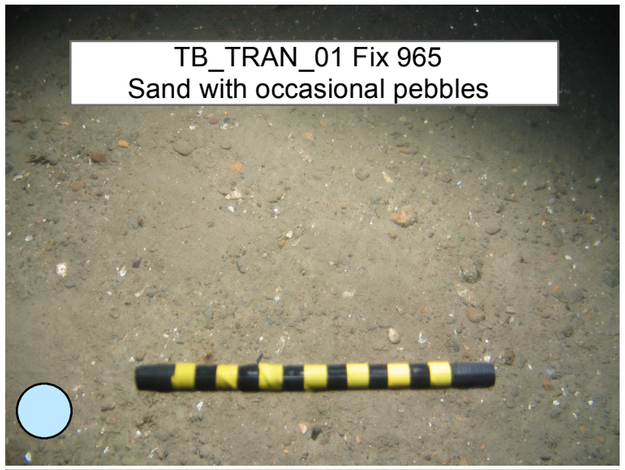
Table E.7 Teesside Cable Corridor Univariate Statistics Results

Station	Taxa	Individuals	Pielou's Evenness (J)	Shannon Wiener Diversity (H')	Simpson's Dominance (λ)
TCC_01	10	46	0.64	2.12	0.39
TCC_03	13	37	0.91	3.35	0.12
TCC_05	17	103	0.69	2.82	0.23
TCC_06	18	60	0.73	3.06	0.22
TCC_09	21	92	0.70	3.09	0.22
TCC_10	26	94	0.70	3.28	0.24
TCC_12	34	63	0.93	4.73	0.05
TCC_14	51	115	0.90	5.10	0.05
TCC_16	49	111	0.86	4.83	0.06
TCC_18	45	95	0.89	4.89	0.05
TCC_22	29	66	0.91	4.43	0.06
TCC_24	37	154	0.84	4.38	0.07
TCC_25	15	26	0.93	3.64	0.09
TCC_26	16	31	0.92	3.70	0.09
TCC_27	17	24	0.95	3.89	0.08
TCC_29	28	76	0.86	4.15	0.08
TCC_31	25	46	0.92	4.28	0.07
TCC_32	27	72	0.81	3.87	0.13
TCC_35	44	134	0.84	4.56	0.08
TCC_37	31	117	0.82	4.07	0.09
TCC_39	55	148	0.84	4.87	0.07
TCC_40	36	134	0.84	4.33	0.07
TCC_42	36	153	0.76	3.94	0.14
TCC_43	40	109	0.87	4.63	0.06
TCC_45	29	57	0.94	4.56	0.06
TCC_46	36	112	0.78	4.04	0.13
TCC_47	53	159	0.88	5.04	0.05
TCC_48	36	84	0.87	4.49	0.07
TCC_49	44	77	0.92	5.00	0.05
TCC_52	36	68	0.92	4.75	0.05
TCC_53	38	109	0.85	4.47	0.07
TCC_54	39	129	0.86	4.55	0.07
TCC_55	19	49	0.93	3.95	0.08
TCC_56	50	312	0.63	3.54	0.23
TCC_57	16	41	0.81	3.24	0.18
TCC_61	14	48	0.73	2.77	0.26
TCC_62	16	35	0.90	3.60	0.10
TCC_64	20	53	0.90	3.88	0.09
TCC_71	46	121	0.86	4.76	0.07
TCC_75	53	221	0.84	4.79	0.06
TCC_76	44	114	0.81	4.45	0.09
TCC_78	22	67	0.85	3.78	0.11
TCC_79	24	68	0.86	3.93	0.10
TCC_80	33	77	0.91	4.60	0.05
TCC_82	35	77	0.90	4.60	0.06
TCC_84	25	42	0.94	4.37	0.06
TCC_85	14	38	0.94	3.57	0.10
TCC_86	22	37	0.91	4.07	0.08
TCC_87	37	113	0.83	4.33	0.08
TCC_90	27	67	0.90	4.30	0.07
TCC_92	25	77	0.87	4.04	0.08
TCC_93	29	74	0.91	4.42	0.06
TCC_94	26	71	0.91	4.26	0.07
TCC_95	34	83	0.92	4.69	0.05
TCC_97	26	68	0.90	4.22	0.07
TCC_99	25	80	0.86	4.00	0.09
TCC_100	22	35	0.95	4.25	0.06
TCC_101	31	51	0.91	4.49	0.07
TCC_102	21	77	0.68	2.97	0.25
TCC_103	38	146	0.86	4.54	0.06
TCC_106	32	172	0.68	3.39	0.22
TCC_107	25	113	0.72	3.35	0.19
TCC_109	38	160	0.68	3.56	0.23
TCC_111	36	156	0.85	4.39	0.07
TCC_112	31	124	0.82	4.07	0.10
TCC_113	29	80	0.91	4.42	0.06
TCC_114	32	133	0.82	4.10	0.09
TCC_115	38	152	0.79	4.17	0.10
TCC_116	34	142	0.80	4.09	0.11
TCC_118	50	193	0.76	4.28	0.13
TCC_120	23	77	0.73	3.30	0.19
Min	**10**	**24**	**0.63**	**2.12**	**0.05**
Max	**55**	**312**	**0.95**	**5.10**	**0.39**
Mean	**31**	**95**	**0.84**	**4.09**	**0.11**
SD	**11**	**51**	**0.08**	**0.61**	**0.07**

APPENDIX F – STONY REEF ASSESSMENT

APPENDIX F - STONY REEF ASSESSMENT
Tranche B

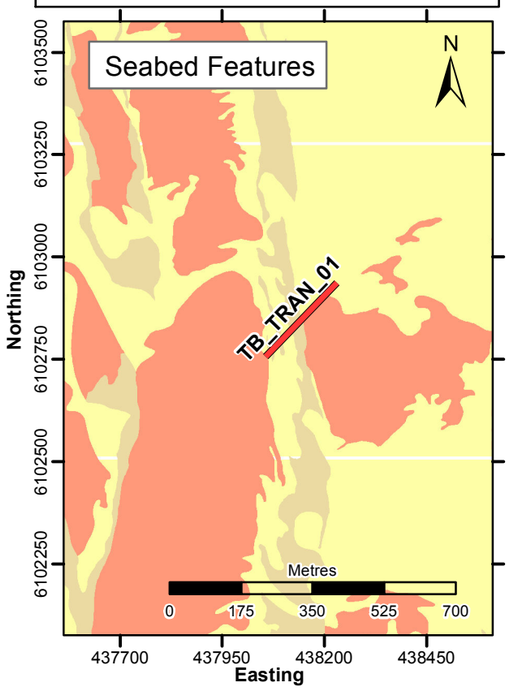




Key

- Transect
- Boulder clay till
- Coarse material and depressions
- Coarse sand
- Fine to medium sand
- Gravelly sand
- Gravelly sand with megaripples
- Silty sand
- Not a 'stony reef'
- Low Resemblance
- Medium Resemblance
- High Resemblance

Coordinate System: WGS 1984 UTM Zone 31N
Projection: Transverse Mercator Datum: WGS 1984
Central Meridian: 3.0°E



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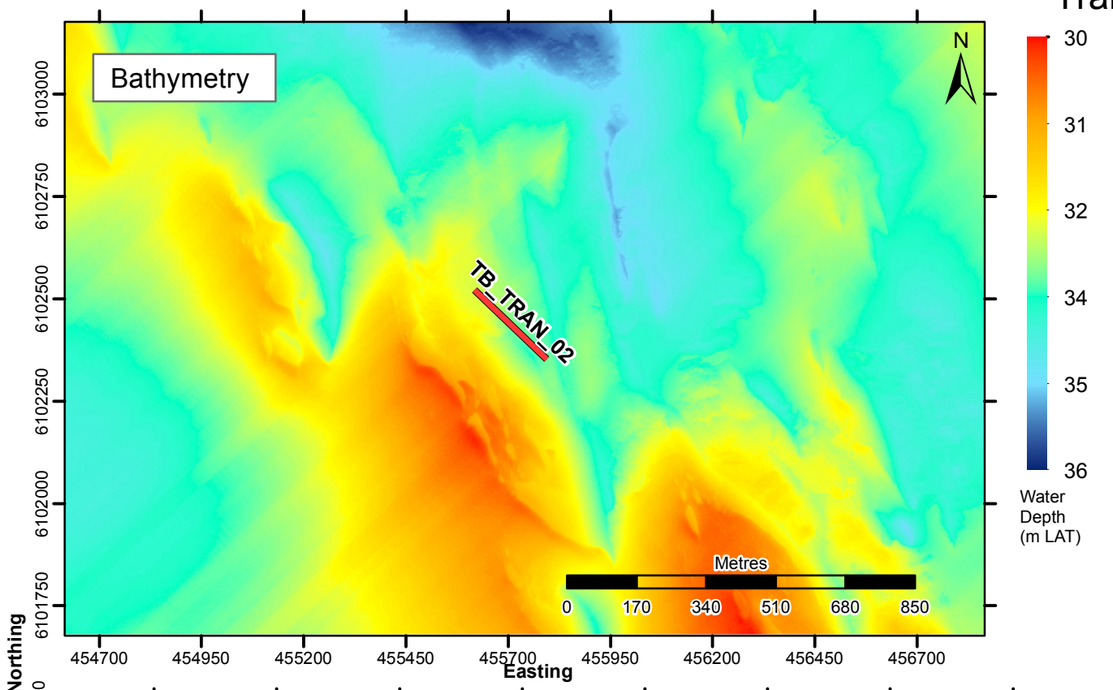
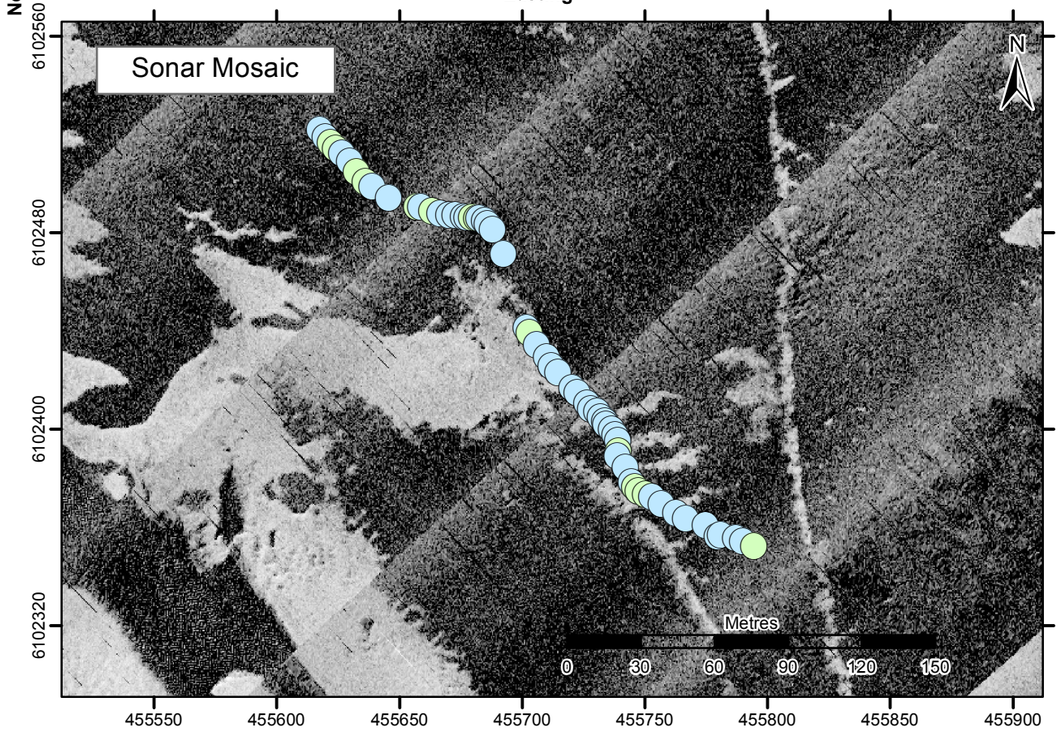
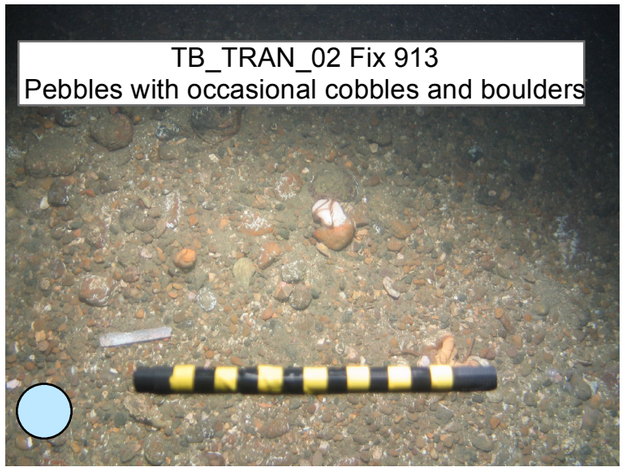
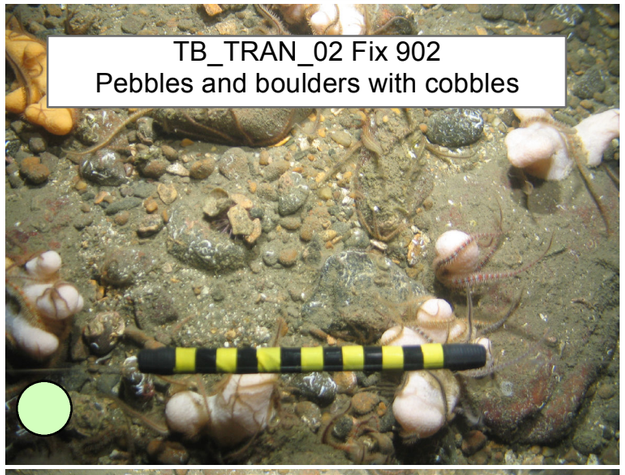
Tranche B









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