Location _____ **Date** _____

CGISS Seismic Field Equipment Check List

■ Hammer source ▼ Shotgun shells ✶ Kinestik

[ ] Take [ ] Packed [ ] Take [ ] Packed

Seismograph

■▼✶ [ ] [ ] 1. Bison 9048 in container[1].
■▼✶ [ ] [ ] 2. Power cable for Bison.
■▼✶ [ ] [ ] 3. Field manual.
■▼✶ [ ] [ ] 4. Bison toolbox (check paper).
■▼✶ [ ] [ ] 5. 12-volt batteries 1[ ] 2[ ][2].

Geophones and Cables

■▼✶ [ ] [ ] 6. Roll-along box in container.
■▼✶ [ ] [ ] 7. Jumper cables 1[ ] 2[ ].
■▼✶ [ ] [ ] 8. 10 m takeout cables # = [ ]
■▼✶ [ ] [ ] 9. 5 m takeout cables 1[ ] 2[ ] 3[ ].
■▼✶ [ ] [ ] 10. 1 m takeout cables 1[ ] 2[ ].
■▼✶ [ ] [ ] 11. 3-component cable.
■▼✶ [ ] [ ] 12. 10 Hz geophones # = [ ].
■▼✶ [ ] [ ] 13. 10 Hz geophones (new clips) # = [ ].
■▼✶ [ ] [ ] 14. 40 Hz geophones # = [ ].
■▼✶ [ ] [ ] 15. 100 Hz geophones. # = [ ].
■▼✶ [ ] [ ] 16. 8 Hz geophones # = [ ].

Seismic source

■▼✶ [ ] [ ] 17. Pressure switch[5].
■▼ [ ] [ ] 18. Trigger cables 1[ ] 2[ ]
■▼✶ [ ] [ ] 19. Blaster box w/ banana plug wires[3].
▼✶ [ ] [ ] 20. Blasting cable on spool.
▼✶ [ ] [ ] 21. 1 1/3# Kinestik (plus liquid)[4]
✶ [ ] [ ] 22. Detonating cord
✶ [ ] [ ] 23. Blasting caps
▼ [ ] [ ] 24. Buffalo guns + triggers, chamber.
▼ [ ] [ ] 25. Parker down-hole buffalo gun
▼ [ ] [ ] 26. Grease for pipe fittings, wire brush.
▼ [ ] [ ] 27. 8-gauge elc. shells # = [ ]
▼ [ ] [ ] 28. 8-gauge elc. PVC capsules # = [ ].
▼ [ ] [ ] 29. 12-gauge shells # = [ ]
▼✶ [ ] [ ] 30. Wire for shot leads.
▼ [ ] [ ] 31. Rubber mat [ ], sandbags [ ].
■ [ ] [ ] 32. Sledge hammer[5].
■ [ ] [ ] 33. Plate for hammer.
■ [ ] [ ] 34. EWG; fuel [ ], bracing straps [ ], rubber band [ ], hyd. fluid [ ] trailer hitch [ ].

Other Tools

■▼✶ [ ] [ ] 35. Shovels [ ], rake [ ], and pick [ ].
▼✶ [ ] [ ] 36. Tamping rod (PVC with cap).
■▼✶ [ ] [ ] 37. PVC pipes (to keep holes open).
■▼✶ [ ] [ ] 38. Geophone planters; small [ ] large [ ]
▼✶ [ ] [ ] 39. Auger; drill bits [ ], extension [ ], torque bar [ ], fuel [ ].
■▼✶ [ ] [ ] 40. Electric toolbox w/ multimeter.
■▼✶ [ ] [ ] 41. two AA batteries for multimeter.
■▼✶ [ ] [ ] 42. Mechanical toolboxes.
✶ [ ] [ ] 43. Galvanometer.
■▼✶ [ ] [ ] 44. Walkie-Talkies (charged batts).

Misc. Supplies

■▼✶ [ ] [ ] 45. Field notebook.
■▼✶ [ ] [ ] 46. Calculator.
■▼✶ [ ] [ ] 47. Black marker pen.
■▼✶ [ ] [ ] 48. Clipboard.
■▼✶ [ ] [ ] 49. Duct [ ] and black [ ] tape.
■▼✶ [ ] [ ] 50. 100 m tape measures.
▼✶ [ ] [ ] 51. Flags and stakes.
■▼✶ [ ] [ ] 52. Water containers.
■▼✶ [ ] [ ] 53. Pea gravel for shot holes.
■▼✶ [ ] [ ] 54. Zip cord, twine and rope.
■▼✶ [ ] [ ] 55. Battery charger.
✶ [ ] [ ] 56. Blasting-zone sign[ ] truck placards [ ].
■▼✶ [ ] [ ] 57. Field gloves.
■▼✶ [ ] [ ] 58. Safety glasses and ear-plugs
■▼✶ [ ] [ ] 59. First aid kit

Surveying Equipment

[ ] [ ] 60. Topcon and extra charged batt.
[ ] [ ] 61. FC-4 computer.
[ ] [ ] 62. Tripod.
[ ] [ ] 63. Target rod + base + prism.
[ ] [ ] 64. 5 m measuring tape.
[ ] [ ] 65. Wooden stakes [ ], lathe [ ]
[ ] [ ] 66. Wire flags [ ], spray paint [ ].
[ ] [ ] 67. Compass.

Crew Supplies

[ ] [ ] 68. Food and Water and Sun screen.
[ ] [ ] 69. Fuel for transport.
[ ] [ ] 70. Full water container (washing etc.).

Other Instructions

Note 1: check memory and remove records if needed.
Note 2: check charge on previous night.
Note 3: check batteries in blaster box.
Note 4: keep Kinestik and liquid separate during travel.
Note 5: important to bring sufficient tape to attach pressure switch to handle.