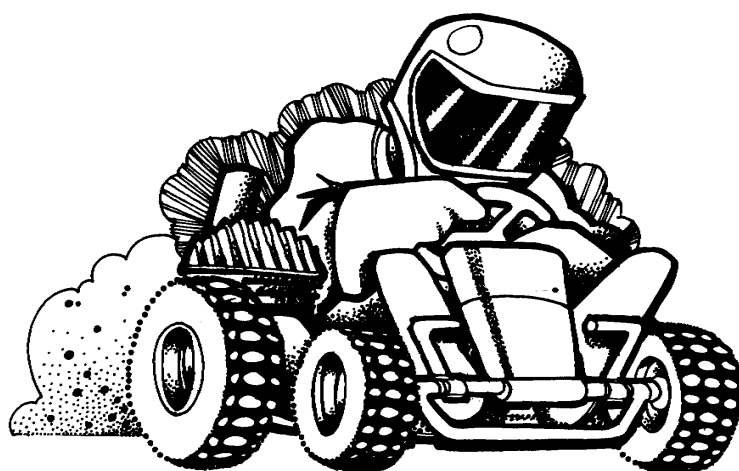


NEW ZEALAND

**Grass Kart
Championships**



2015 – 2016

Rules

KARTS

1.Engines:

Motorcycle production motors only.

Stationary engines, of the correct CC rating are acceptable.

No excessive exhaust noise, 95 dB strictly enforced.

Must be naturally aspirated, (no forced air, turbo etc., No NOS kits)

All karts must have a clutch.

No air cooled engines to exceed 610 cc.

No water cooled engines to exceed 510 cc.

Pit bike engines allowed.

No KT motors of any kind.

Replacement engines must be the same as the original, like for like and be the same cc rating.

The head marshal has the power to pull the head off any motor that is suspected of not being legal cc rating. The cost of the replacement head gasket is the owner/drivers responsibility.

Any kart found with an oversized engine will result in both the kart and driver being disqualified from the whole meeting.

2. Kart Dimensions:

1800mm long X 1350mm wide maximum (bumper to bumper and the outside of the rear wheels).

3. Wheels:

Four wheels per kart. No duals. No tyre tampering eg. hand grooving.

Steel wheels to have a 6mm bead welded all the way around the wheel.

Beads on rims must be flush.

No four wheel drive karts.

4. Brakes:

Must work on both rear wheels only.

4A. Brake Check Method:

Pull the Kart by the brake pedal, rear wheels must lock.

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4B. Brake cable thickness:

2.0mm Minimum

5. Bumpers:

Must not exceed the rear wheel and rim total width.

Must have rounded corners and be adequately constructed.

Can be flush to the outside of the rear wheels but no less than 50mm inside of that line.

Must be a minimum of 100mm deep and vertically up and down (90 deg to the ground) and have at least two vertical bars fitted.

Front bumper must not exceed the inside turning line of either front tyre and have at least two vertical bars fitted.

6. Side Bars:

Must start as close as possible at the rear of the front wheels and finish as close as possible in front of the rear wheels.

These are to be constructed with at **least two horizontal bars. The top bar is to be directly above the lower bar(s) IE 90 deg to the ground.** 12mm OD bars (minimum) between 100 and 200 mm centre to centre apart with nothing protruding outside the rear wheels.

The lower of the two bars must be no more than 50mm above or 50mm below the centre lines of both axles.

The motor may act as a side bar but there must be bars at the front and rear of the motor.

Plastic side pods are also acceptable in place of the above side bars.

Check General Kart Dimensions.

7. Chain Guard:

Must be fitted to cover the top of ALL of the drive chain. Must continue downwards at the rear to a minimum of the axle centre line and must be able to deflect the chain downwards in the event of a break.

8. Fuel Tanks and Lines:

Must be securely mounted and retain fuel from spillage.

No fuel tanks to be mounted above (over) the engine.

Fuel shut off valves to be fitted and be accessible on all types of fuel systems.

Fuel shut off valves can be fitted to the tank or a maximum of 150mm down the supply line from the tank. They must be clearly visible.

Fuel lines must be secured at all joints.

Fuel breathers or check valves must be fitted and so designed that it completely prevents all spillage.

8A. Fuel:

Pump or aviation gas only to be used.

No methanol or alcohol fuels.

No NOS kits allowed.

9. Kill Switch:

Must be accessible and CLEARLY IDENTIFIED.

Must be working

Must be mounted on the steering column or on the steering wheel.

10. Numbers:

Must be mounted Front, Back, and both sides.

Minimum character size 150 mm x 65 mm.

Numbers can be either black numbers on white or white numbers on black.

Must be cleaned prior to each race.

Numbers must read horizontally.

Must adhere to the three digit format, with the club number being the leading digit.

Class winners can use a YELLOW NUMBER PLATE up to and including the next year's Championship Meeting.

- | | |
|---|---------------------|
| 0 | Southern |
| 1 | South Canterbury |
| 2 | Christchurch |
| 3 | South Otago |
| 4 | Gore |
| 5 | 500 to 549 Kaikoura |
| 6 | Green Island |
| 7 | Cromwell |
| 8 | Ashburton |
| 9 | Christchurch |

11. Helmets:

Minimum of New Zealand Safety Standard.

Must be worn at all times when in the kart.

Must fit correctly.

Not damaged, chipped or cracked.

Will be scrutinized at the same time as the kart.

12. Protective Clothing:

Suitable protective footwear, eye protection, gloves and overalls (full length and long sleeved) or racing suits must be worn.

Neck braces are compulsory for all classes.

A minimum of bare skin should be showing.

All hair must be contained within the helmet or overalls/race suit.

Will be scrutinized at the same time as the kart.

13. Mud Flaps:

Fitted to the rear bumper, no higher than 20mm off the ground.

The top of the mud flap must be 25mm higher than the top of the rear wheel.

Must cover the rear tyre and rim in total width plus a minimum of 5mm either side.

Any damaged mud flap **MUST** be replaced or repaired before the next race.

Mud flaps must be rigid but not metal, and be securely attached (not cable ties only)

Any kart with mud flaps deemed ineffective by the Head Marshall will shown a “ROLLED BLACK FLAG”.

For a second offence that kart will be shown an “OPEN BLACK FLAG”.

14. Damaged Karts:

Must be re-scrutinized before racing again.

15. Crashes:

If you spin out or break down on the track remain in the kart with both hands raised until the track is clear and then remove the kart as quickly as possible.

If you run off the track you must re-enter at the point of exit when the track is clear or safe to do so.

16. Flags:

Flag Marshalls must be obeyed at all times.

Minimum flag size 600 mm x 600 mm.

No racing shall take place unless all flag marshals are in place.

Provision of flag marshals is the responsibility of the host club.

Green,

Dropped Go

Red,

Danger STOP where you are **IMMEADIATLEY**

Yellow

Caution, **SLOW DOWN** and hold position until you have passed the hazard. **NO OVER TAKING.**

Black Rolled	Warning of an offence. See the Head Marshall at the end of the race
Black Flag Waved	Must stop immediately. Further action to be decided by the Head Marshal.
Red/Yellow	Extreme Caution. Race stopped temporarily. Proceed to the Start Line with caution.
White	Last lap. One further lap to complete to end of race.
Chequered	Winning Flag. Finish of race.

17. Lights:

May be used by the host club.

Must be three lights and a false start light.

Light sequence must be of random timing.

Only one green light to be on to signal a start.

18. Alcohol:

No alcohol is to be in the pit area.

No alcohol is to be consumed before or during the race meeting.

Drivers are responsible for Pit Crew and Guests behaviour.

19. Pits:

Hosting club to decide whether karts are to be pushed or driven slowly within the pit area.

20. Driving:

Deliberate barging, shunting, weaving or team driving will receive an automatic points deduction from that race at the discretion of the Head Marshall.

All overtaking should be completed without deliberate contact.

21. Abuse:

Anybody abusing an official or other competitor will be disqualified from All RACING. This includes your Pit Crew and Guests.

22. Penalties:

All penalties will be in the form of a point's deduction. The amount of that deduction is at the discretion of the Head Marshall.

A minimum of 3 points deduction will be given where hand signals are NOT USED.

23. Disputes:

All disputes must be in writing and contain only the facts of the incident, be signed by the driver and accompanied by \$50.00.

Disputes must be lodged within 10 minutes of the race concerned finishing and be handed to a nominated person, e.g. Race Secretary, Head Marshall or Host Club President.

All disputes must be resolved before the next race of those involved is started. Each club must have an appointed representative to listen to the Head Marshall and/or the Race Committee's decision.

The Head Marshall or Race Committee's decision is FINAL.

Any protest about Lifan engines will be in accordance with Appendix 3 Engine Checks.

Any protests about engines (**Except Lifans**) will be put in writing and be accompanied by \$100.00.

If the engine is found to be legal the owner of that kart, will receive the \$100.00.

If the engine is not legal (oversize only) the protestor will get the \$100.00.

All protests to be submitted on the official form with the name of the protestor to be made public at the time of the submission

24. Race Starts:

Standing starts to be used to start all races.

All karts to be stationary on the grid prior to starting.

A kart that breaks the start will restart from at least 20 metres back from the start line. A second break by the same kart will result in that kart being removed from that race.

25. Grid Gaps:

Any gaps in the grid created by the failure of a kart to turn up will remain unfilled and all karts will remain in their drawn positions with one kart length between each kart on the grid (1800mm).

26. Races:

Shall be six laps in length, except for midgets which will be four laps.

If there is an incident before the second corner the Head Marshal may restart the race using the original Grid positions.

If less than one lap has been completed when the race is stopped the race will be restarted using the original grid positions.

If the race is red flagged after four or more laps have been completed, the Head Marshal may call the race or restart as below.

If the race is red flagged before four laps are completed, the race will be restarted with a rolling start, Indian file. Positions to be determined by the placing's at the completion of the last full lap.

No racing will take place unless Flag Marshalls are in place.

27. Track:

Length to be a minimum of 600m and a maximum of 800m.

Width to be a minimum of **8m wide**

The race committee or Head Marshall has the right to move all or part of the track as they see fit.

28. Prizes:

Cups/Trophies will be presented from 1st to 3rd place in all grades and certificates from 1st to 6th positions.

Additionally all Midgets, Intermediate's, and Juniors, must receive Certificates and a small gift for all competitors.

The overall top place getting club to be acknowledged at prize giving. IE.

The club with the most successes.

29. Classes:

Must be a minimum of 6 Karts to constitute a class. If there are two classes of less than 6 karts then these classes may be combined to form one class and race for a Combined Class Trophy.

Air Cooled Non Power Ported Engines:

2 Stroke

0 to 190cc

191 to 510cc

4 Stroke

0 to 205cc

206 to 266cc

267 to 610cc

Ladies

0 to 205cc

206 to 510cc (610cc air cooled)

Lifan

Juniors

(14 to 16 years inclusive as at the 1st of March preceding the Champs)
 0 to 205cc maximum (Air cooled engines only) or a
 0 to 85cc maximum water cooled and power ported engine.

Intermediates

(9 to 13 years inclusive, as at the 1st of March preceding the Champs)
 0 to 205cc maximum Air cooled engine or a
 0 to 85cc maximum water cooled and power ported engine.

Midgets

(5 to 8 years inclusive, as at the 1st of March preceding the Champs)
 0 to 125cc maximum (air cooled engines only).

Stationary engines of the correct capacity with a centrifugal clutch.

No 2 stroke engines above **75cc** are allowed for Midgets.

Midgets may be run in two classes 0 to 55cc and 56 to 125cc (**75cc 2 stroke**) air cooled.

Water Cooled or Power Ported Engines

0 to 130cc

131 to 205 cc

206 to 255 cc

256 to 510 cc

Only with the approval of the NZ Rules Working Committee can the Hosting Club split the above classes.

30. Insurance:

The host Club must have Public Liability Insurance cover and be able to produce proof of such cover should it be requested by the NZ Rules Working Committee.

31. Indemnity:

ALL DRIVERS, Head Marshall, Flag Marshalls and other Volunteers must sign the indemnity form provided by the Host Club to protect that Club, Ground Owner, Sponsor or Officials from any form of claim.

Minors under 18 years of age must have a parent or guardian's signature acknowledging the conditions of entry and indemnity.

32. Sponsorship:

If needed, all clubs may be asked to help with sponsorship. It is up to the Host Club, on how this is to work.

33. Refuelling:

NO SMOKING while refuelling karts.

No person to be seated in the karts during refuelling.

34. Batteries:

If a battery is fitted it must be covered and mounted well away from the fuel tank and/or fuel lines.

Battery, Starter Motor and Solenoid terminals must be covered.

No bare wires are to be showing.

35. Hand Signals:

Hand signals must be used at all times when stopping or leaving the track.

This is defined as the ARM FULLY EXTENDED ABOVE THE HELMET.

Any kart leaving the track, must do so safely and with consideration to others.

36. Push Bikes:

A push bike is only to be used for re starting and after any mishaps during the races for Midgets, Intermediates, Juniors and Ladies competing in the Ladies class only.

Any other classes that use the push bike to restart, apart from a grid push, shall have their points from that race deducted.

37. Parent Help:

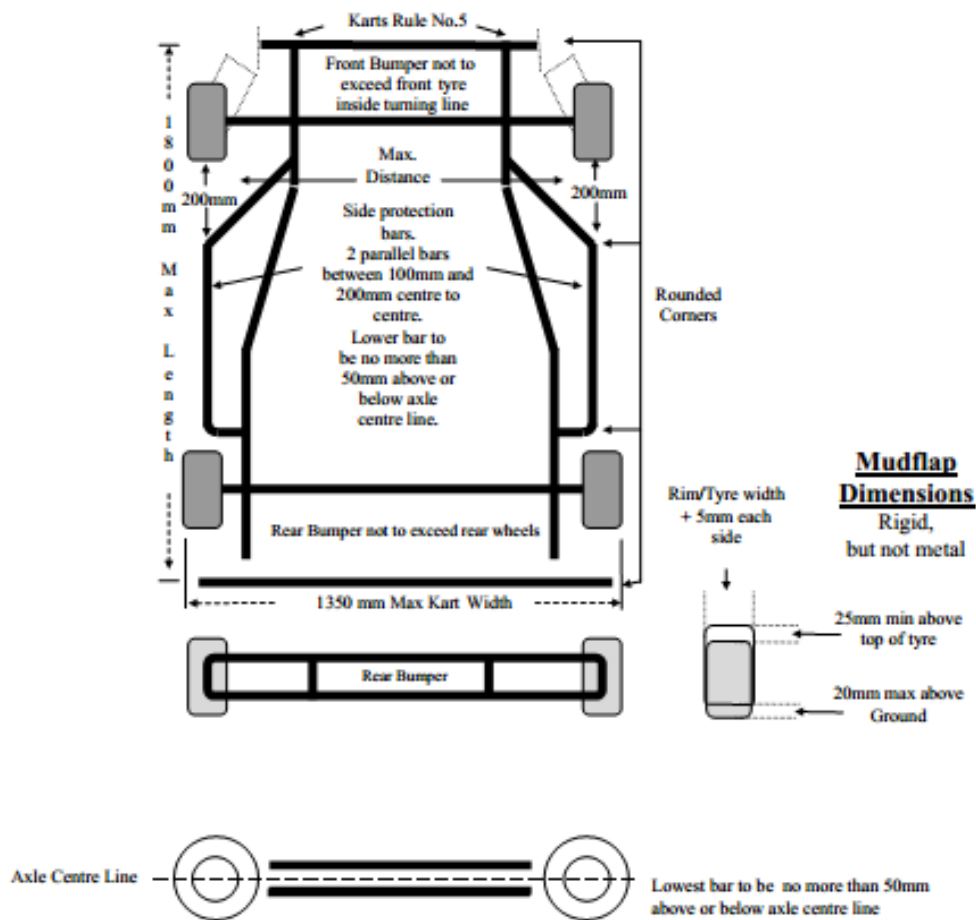
No unauthorised people may be on the circuit. A parent/helper is allowed to assist with Midgets, Intermediate's, Juniors and Ladies competing in the Ladies class only.

38. Clean Karts:

Karts must be presented in a clean state for initial scrutineering (not clean, not scrutineered) . This includes the underside.

APPENDIX 1

General Kart Dimensions



Appendix 2

New Zealand Grass Kart Championships Race Format

Address:

Every club must provide (by 31st August) the following years Hosting Club with the current Club address and contact person's name and phone number to ensure all relevant information may be forwarded on.

Entry Forms:

These are to be available three months before the race meeting.

Close off date for entries to be at the Host Clubs discretion.

Forms to include the Engine make and model for programme inclusion.

The cost of entry is up to the Host Club.

Where there are two or more entries submitted by members of the same family, residing at the same address, a decreasing scale of charges should apply.

Scrutineering:

Scrutineering may be carried out on the day prior to racing if this is suitable to the Host Club. Timing to be preferably in the mid to late afternoon.

Rules:

A current copy of the rules is to be kept on diskette and updated as needed, by a person nominated by the NZ Rules Working Committee.

A copy will be provided to the Host Club for the purpose of publication and distribution only and must not be altered in any way by the Host Club.

Racing Order:

1. Ladies 0-205/206-610cc (Both classes may be run together with handicap).
2. Intermediates 0-205cc Air Cooled and 0-85 Water cooled and PP.
3. Midgets 0-125cc
4. Lifans 200cc only

5. Juniors	0-205cc Air Cooled and 0-85 Water cooled and PP
6. Senior	0-130cc Water cooled and PP.
7. Senior	206-255cc Water cooled and PP.
8. Senior	256-501cc Water cooled and PP.
9. Senior	206-266cc Air cooled 4 stroke.
10. Senior	267-610cc Air cooled 4 stroke.
11. Senior	0-205cc Air cooled 4 stroke.
12. Senior	191-510cc Air cooled 2 stroke .
13. Senior	0-190cc Air cooled 2 stroke .
14. Senior	131-205cc Water cooled and PP.

Heats:

There will be 6 heats – 3 on Saturday and 3 on Sunday. All or part of the 4th heat may be run on the Saturday if time permits.

A maximum of 12 karts in any heat.

All points from the 6 heats will be accumulated to determine the overall winner of each class.

If there are karts on equal points after the 6 heats, the winner will be determined by the best finishing place in the last heat.

If there are more than 12 karts in a class, the draw for the heats is to be split so that all drivers have a chance to compete against all others in their class during the 6 heats.

Lap scoring:

Electronic lap scoring (transponders) may be used at the discretion of the host club.

Points

Points will be based on the number of karts that register in each class ie: if there are 6 karts, then the first kart will get 6 points, and the 2nd kart will get 5 points etc.

If spilt heats are used, the total number of karts in the largest heat will be the basis for the scoring for both heats eg: Heat 1 has 10 karts and heat 2 has 7 karts. Points for both will start at 10.

No points for DNF's or karts pushed over the finish line.

Practice:

There will be no practice or warm up laps for any class, except the midget class. One lap behind the push bike.

Premature end:

Should the meeting be prematurely ended due to weather or other adverse conditions, final placing's will be determined on the total points gained from all completed races. If required, the count-back system will be used.

Champion of Champions:

The COC race shall consist of the 1st and 2nd place getters from all classes, except midgets, juniors and intermediates.

The COC race shall be 8 laps long.

Grid positions for the COC race will be on a handicap basis assigned by the Head Marshall.

The Head Marshall may use information supplied by the lap timing system.

Sunday Relay:

This race will be optional depending on time.

The race will consist of one kart from each class (where available).

A club may borrow missing class karts and drivers from other clubs.

The race order will be the same as the main programme, except that midgets will start.

The number of classes participating may be reduced should time not permit full inclusion.

The host club must satisfy the present members of the NZ Rules Working Committee that this event can be run safely.

Officials:

Maximum of four persons - Head Marshall, up to three RWC members, and if required Host club president.

Head Marshall:

A suitable person that has a good understanding of Grass Karts.

NZ Rules Working Committee 2014-2015 season are:

Peter Morgan 027 436 7947
peter.morgan@hwr.co.nz

Andy Anderson 027 319 2888
thzolymp@xtra.co.nz

Tom Reid 027 434 0200
rstormreid@yahoo.co.nz

If there are any safety issues these rules may be changed by a unanimous decision of the NZ Rules Working Committee.

Rule submissions:

These may be submitted up until the 31st May following the Easter race meeting.

The NZ Rules Working Committee will then meet and consider the submissions. They will update the rules where appropriate and will release the new document by 31st October.

All submissions must be handed, emailed, faxed or posted to any member of the NZ Rules Working Committee.

Appendix 3

The New Zealand Standard Lifan Grade Rules

All drivers competing in the Lifan grade must abide by the following rules regarding the use of the std Lifan 163fml engines.

General Rules:

- a. All karts and drivers to comply with all other Grass Kart rules and regulations as set out by the NZ rules working committee.
- b. All engines must be Lifan 163fml model with the following specifications
 - single overhead cam
 - 200cc single cylinder
 - 2 valve head
 - air cooled
 - no balance shaft
 - bore x stroke 63.5 x 62.2 (allowance for wear)
 - 5 speed gearbox
- c. **Removed**
- d. All engines must be from the Lifan factory
- e. All engines must be standard bore & stroke, allowance for wear given.
- f. No modifications allowed. This includes:
No additions to, removal of, alterations to motor (as out of box) that could improve performance.
- g. No after-market or other brand parts to be used.
- h. No machining, i.e.; welding, milling, boring, drilling, planing, turning, grinding, filling, filing, sanding, smoothing, polishing, balancing, lightening, strengthening, blueprinting or aligning of any parts, internal or external.
- i. Exhaust tube and muffler inner tube 43mm OD max. Muffler to be “bullet” type only.
- j. Original 163fml carburettor and manifold must be used.
- k. Original 163fml ignition parts to be used i.e.: coil, CDI, ignition, windings or pulse coil.
- l. Starter motor must stay on motor, even if not used.
- m. No dry sump or oil cooler allowed.
- n. Petrol only (maximum 100 octane) no octane boosters, alcohol, methanol or nitro.
- o. These rules do not exclude normal club rules or NZ champ rules.

Things you can do:

- a. Engine drive sprocket can be changed
- b. Spark plug and cap can be changed with equivalent type
- c. Valves can be lapped in, and valve clearances adjusted
- d. Carburettor jets can be changed or drilled out.
- e. Clamp or brace fitted to secure carburettor
- f. Head exhaust studs can be upsized to 8mm (6mm standard)
- g. Engine mounting holes can be drilled out to 12mm max.
- h. Kick start engine spline can be cut off (internal parts must stay)
- i. Removal of the voltage regulator and the starter solenoid is allowed, if no battery is fitted to the kart (starter motor must stay on engine even if not used).
- j. Any Lifan 163fml engine that does not meet these rules will be disqualified.
- k. Pulse pump (fuel pump) fitting can be added to intake manifold.
- l. Bore may be honed to fit new rings.**

Engine checks

- a. Any engine entered in the grade may be checked at the discretion of the Head Marshall.
- b. Engines will be checked at a time and place as requested by the Head Marshall.
- c. Any member may protest an engine, at a cost of \$100 (**REF NZ Rule 1**).
- d. Engine checks could include rocker cover or head removal or any other checks.
- e. New engines (still in box) unused from the factory may have the serial numbers recorded and be sealed by the hosting club for \$20.00.
- f. Any refusal to allow engine checks to be carried out will be considered to be an illegal/modified engine.

Any member/competitor found to have an illegal/modified engine will be disqualified and unable to enter std Lifan grade indefinitely.

- g. The protester will also be responsible for the total cost of the inspection, reassembly and return freight should the engine be found to be legal. The kart owner will be responsible for all costs if the engine is found to be illegal.**

Engine check format is included on the attached protest form.

Appendix 4

The following 5 tyres make up the control tyres for South Island grass kart racing.

These are the ONLY tyres permitted in all grades from 1/4/2014

Control tyre 1

13x5.00-6



Control tyre 2
4.00-5



Control tyre 3 & 4

4.10/350-5

4.10/350-6



Control tyre 5
13x5.00-6



Appendix 5

Protest: Non Lifan Engine

I _____ Kart No _____ Class _____

Protest _____ Kart No _____ Race _____

Details: _____

Witness(es) _____ Fee \$ _____

Action Requested _____

Signed _____ Date & Time _____

Protest: Lifan Engine

I _____ Kart No _____

Protest _____ Kart No _____

Select Item(s) to be Checked

<input type="checkbox"/> Bore & stroke	<input type="checkbox"/> Cam profile
<input type="checkbox"/> Exhaust tube size	<input type="checkbox"/> Cam timing
<input type="checkbox"/> Carburettor & manifold	<input type="checkbox"/> Flywheel weight
<input type="checkbox"/> Ignition	<input type="checkbox"/> Aftermarket parts
<input type="checkbox"/> Inlet & Outlet ports & valves	<input type="checkbox"/> Dry sump

Witness(es) _____ Fee \$ _____

Action Requested _____

Signed _____ Date _____