



# Expert witness work – why and how!!!!

## Association of Noise Consultants 29<sup>th</sup> June 2016

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The presentations:

- Expert Witness Roles and Reality Toby Lewis
- The Expert Witness and the Perfect Report? A Practical Guide – Phil Dunbavin
- The Expert in the Courtroom Michael Stephens
- Followed by a Q & A session





My personal position:

- 30+ years of expert witness work and still room for improvement?
- Surely we are all competent and doing it (broadly) the same way! So there should not be a need for different sides at Inquiries, Courts, Tribunals and Select Committees
- WRONG!!!!!!!





#### The difference between experts

Claim Property	Façade	Floor	- LA10 18hr Road noise				- LAeq 18hr Road + Rail noise			
			2004	2021	Change	Increase	2004	2021	Change	Increase
22 Cordrey Gardens	S, front	1	42.2	51.4	9.2	Major	46.4	50.5	4.1	Moderate
	S, front	2	45.5	53.9	8.4	Major	51.2	54.0	2.8	Minor 🔶
	N, Rear	1	48.1	51.7	3.6	Moderate	59.2	59.4	0.2	Negligible
	N, Rear	2	49	52.8	3.8	Moderate	60.7	60.9	0.2	Negligible
51 Cordrey Gardens	S, front	1	43.8	55	11.2	Major	48.6	53.7	5.1	Major
	S, front	2	46.7	57	10.3	Major	53.4	56.7	3.3	Moderate
	N, Rear	1	49.7	55.5	5.8	Major	62	62.4	0.4	Negligible
	N, Rear	2	50.4	57.4	7	Major	62.9	63.5	0.6	Negligible
53 Cordrey Gardens	S, front	G	43.7	54.9	11.2	Major	50.2	54.2	4	Moderate
	N, rear	G	48.2	55.4	7.2	Major	57.2	58.4	1.2	Minor
79 Brighton Road	NW, front	G	71.8	73	1.2	Minor	69.3	70.5	1.2	Minor
	NW, front	1	73.5	74.7	1.2	Minor	71	72.2	1.2	Minor
	SE, Rear	G	48.1	49.1	1	Minor	48.3	48.9	0.6	Negligible
	SE, Rear	1	51	52.1	1.1	Minor	50.6	51.3	0.7	Negligible
55 Cordrey Gardens	W, Front	G	48.1	57.2	9.1	Major	58.6	59.9	1.3	Minor
	W, Front	1	48.7	58.5	9.8	Major	59.9	61.2	1.3	Minor
	E, Rear	G	41.1	46.5	5.4	Major	51.8	52.3	0.5	Negligible
	E, Rear	1	42.9	48.2	5.3	Major	53.3	53.8	0.5	Negligible
56 Cordrey Gardens	W, Front	G	48.1	57.3	9.2	Major	58.5	59.9	1.4	Minor
	W, Front	1	48.7	58.5	9.8	Major	59.7	61.1	1.4	Minor
	E, Rear	G	38.4	43.2	4.8	Moderate	43.9	45.1	1.2	Minor
	E, Rear	1	40.9	46	5.1	Major	44.7	46.5	1.8	Minor



Ensure that the evidence you rely upon is robust – this can include:

- Measurement data
- Noise Predictions
- Guidance documents and relevant research literature
- Understand the effect of uncertainty on your conclusions





#### Prepare properly for giving evidence, crossexamination and potential re-examination

- Prepare the 'what if' scenarios
- Be prepared to <u>listen carefully</u> and do not pre-judge where a question is going or what the answer might be
- Answer the question put and <u>only the question</u> there is no need for augmentation or embellishment
- Counsel on the opposing side are only doing their job it is not personal – do not respond in a personal way
- Ensure that your answers are directed at the Decision Maker in such a way as they know when you are making a BIG POINT





Ensure that you have fully understood any guidance documents you rely upon.

- Otherwise you will be invited to add 2+2 and it will = 5
- Have copies of any guidance documents readily to hand and mark up the relevant points with tabs where appropriate – not just the documents that you rely upon but also those that any other party might rely upon!





## Be careful when you selectively pick information from guidance documents!







Take as much time as you reasonably need – both to settle yourself into the witness chair and to answer questions

Techniques that I have used (not necessarily recommended!)

- Arrange your paperwork carefully and take a drink before indicating you are ready to give evidence
- Listen very carefully to questions and take notes, pause before replying
- Recognise that there is a time for inserting a 'touch of theatre'





## Uncertainty in general response to noise







## Be aware of terminology

**Noise Impact** – The difference in the acoustic environment before and after the implementation of the proposals

**Noise Effect** – The consequences of the noise impact e.g. change in disturbance

**Significance** – The evaluation of the noise effect and deciding whether or not the impact is significant (Note that this is particularly important for EIA)





#### **Impact > Effect > Significance**

MAGNITUDE (Nature of Impact)		DESCRIPTION OF EFFECT (on a specific sensitive receptor)	SIGNIFICANCE (as required within EIA)		
Substantial		Receptor perception = Marked change Cause a material change in behaviour and/or attitude, e.g. individuals begin to engage in activities previously avoided due to preceding environmental noise conditions. Quality of life enhanced due to change in character of the area.	More Likely to be Significant (Grouzer judification recoded - based on impart magnificat and receptor sensitivities - to justify a non-significant effect) (Grouzer justification needed		
Modoratz	BENEFICIAL	Receptor perception = Noticeable improvement Improved noise dimate resulting in small changes in behaviour and/or attitude, e.g. turning down volume of telesistics: speaking more quietly: opining windows. Affects the character of the area such that there is a perceived change in the quality of life.			
Sight		Receptor perception = just noticeable improvement Noise inpact can be heard, but does not result in any change in behaviour or attitude Can digiting affect the character of the area but not such that there is a perceived change in the quality of life.	<ul> <li>based or impact magnitude and receptor sensitivities – to justify a sensiticant effect) Less Likely to be Significant</li> </ul>		
Negligible		N/A = No discernible effect on the receptor	Not Significant		
Sight		Receptor perception = Non-Intrusive Noise impact can be heard, but does not cause any change in behaviour or at8bde, e.g. turning up volume of television; speaking more loudly, doing windows. Can sightly affect the character of the area but not such that, there is a perceived change in the quality of life.	Less Likely to be Significant (Greater justification needed - based on impact magnitude and morptor sensibilities - to justify a significant effect)		
Moderate	ADVERSE	Receptor perception = Intrusive Noise impact can be heard and causes small changes in behaviour and/ or attlude, e.g. turning up volume of television; speaking morn locally doiing windows. Potential for non-awakening skep disturbance <sup>III</sup> Affects the character of the area such that there is a perceived change in the quality of Sile.	1		
Sobstantial	ADVI	Receptor perception = Disruptive Causes a material change in behaviour and/or attitude, e.g. avoiding contain activities change periods of tertunics. Potential for sleep disturbance resulting in difficulty in getting to deep, premature awakening and difficulty in getting tack to sleep. Quality of life deministed due to change in character of the arma.	(Grister jutification meeded - based on impact magnitude and morphor sandivides - to jutify a non-significant effect) More Likely to be Significant		
Severa		Receptor perception = Physically Harmful Significant changes in behaviour and/or an inability to misgate effect of noise leading to psychological stress or physicalgical effects. e.g. regular sleep deprivation/awalening/loss of appette.significant.medically definishe hums. e.g. auditory and non-auditory.	Significant		

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#### **Presentation of information**

- Basic Information
- Location of receptors
- Period of Baseline Study
- Methodology
- Baseline Noise Levels
- Reliability of Data
- Predictions
- Summary of impacts
- Recommendations this might highlight particularly sensitive receptors





## Thank you for listening

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