NATIONAL STEEL AND SHIPBUILDING COMPANY'S CLOSING STATEMENT

In the Matter of Tentative Cleanup and Abatement Order No. R9-2011-0001 (Shipyard Sediment Cleanup)

Kelly E. Richardson

November 15, 2011

LATHAM&WATKINS LLP

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Governing Law – Resolution 92-49

- Incremental benefit must justify the incremental cost
- No other remedial footprint or monitoring were even analyzed under 92-49 in this proceeding

MacDonald Never Considered 92-49

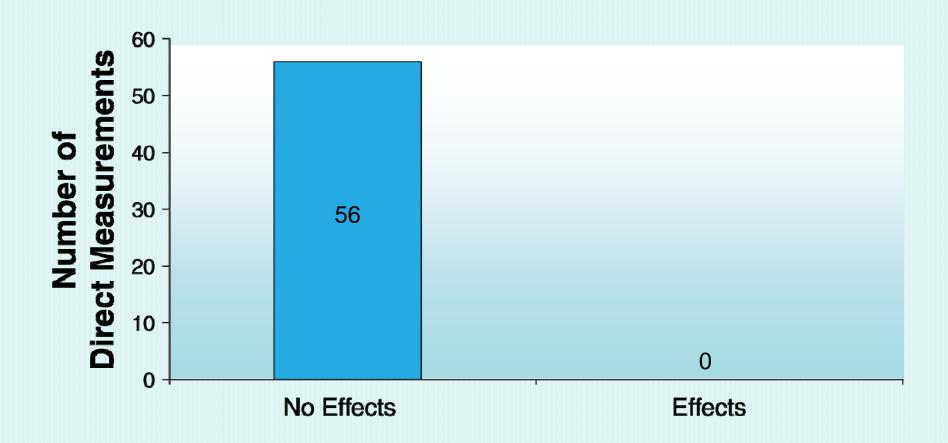
- Q. Did you apply Resolution 92-49 in any part of your report or as part of your methodology?
- A. Without knowing specifically what's in Resolution No. 92-49, it would be impossible for me to tell you that.
- Q. Do you recall ever reviewing 92 -- Resolution 92-49 in the course of your practice?
- A. I don't have a specific recollection of that.

(Deposition of Donald MacDonald, 190:22-191:12)

Sediment Profile Imaging at NASSCO Shipyard



There are No Differences from Reference Conditions for Benthic Community Measurements at NASSCO (14 × 4 = 56)





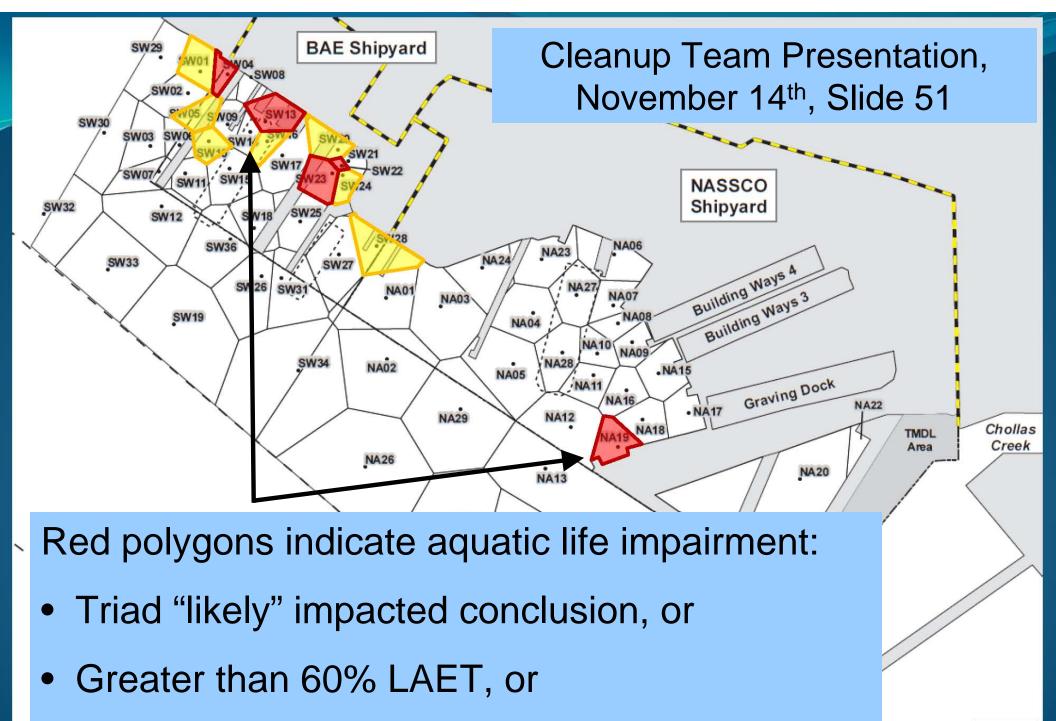
Benthic Tests Are Most Important

Q. Mr. Alo, in reading this last paragraph,
"The biologically based lines of evidence are the
most important since they are direct measures of
what is being protected," as the authors of this
study and in your own expertise as a sediment
toxicologist, would you agree with the authors in
that statement?

A. Yes, I would agree with them.

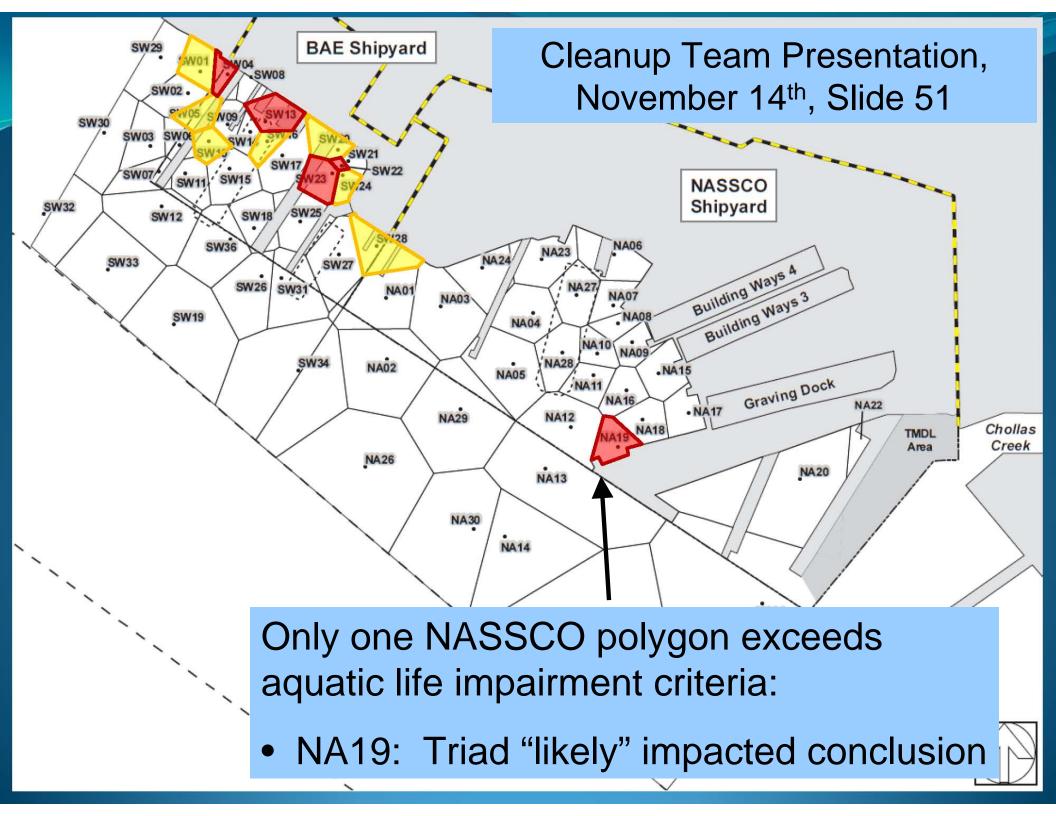
(Deposition of Tom Alo at 228:22-229:3)





Exceed SS-MEQ of 0.9.

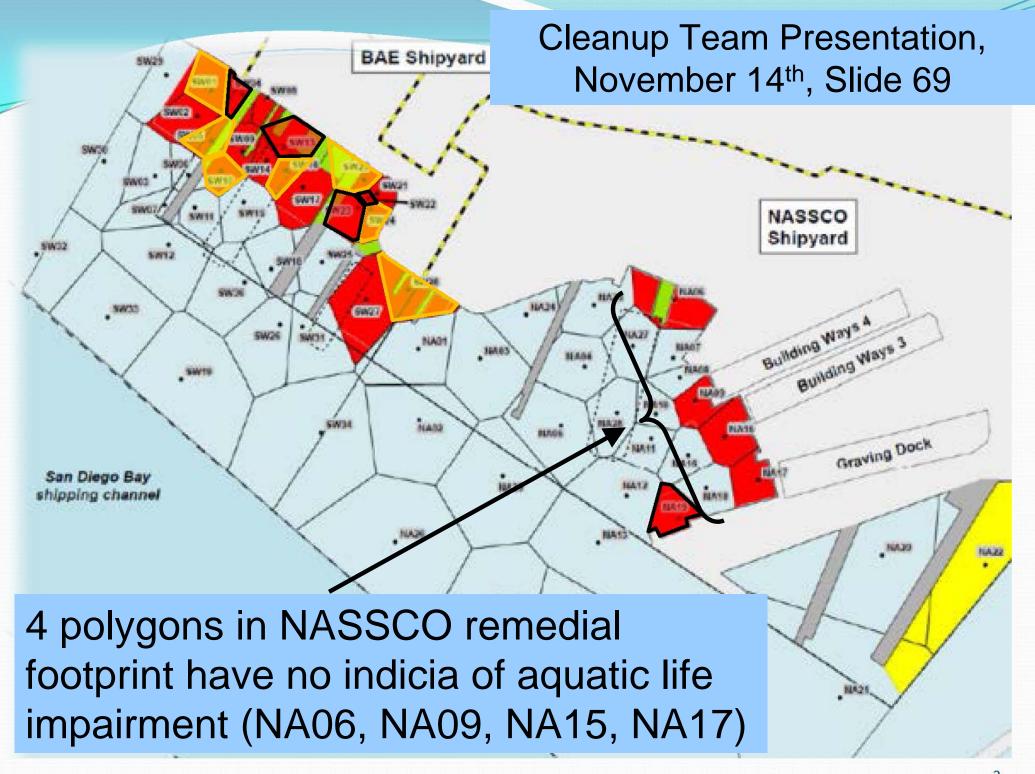




NASSCO Shipyard Security







Fish tissue mercury concentrations

- Average mercury
 concentrations in fish in
 NASSCO leasehold (0.12
 ppm) consistent with tissue
 concentrations classified by
 EPA as "lower" levels of
 mercury
- Same as average concentration found in canned, light tuna



U.S. Department of Health and Human Services and U.S. Environmental Protection Agency



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March 2004

EPA-823-R-04-005

What You Need to Know About Mercury in Fish and Shellfish

2004 EPA and FDA Advice For: Women Who Might Become Pregnant Women Who are Pregnant Nursing Mothers Young Children

	SPECIES	MERC	URY CONCI (PPM)		TION	NO. OF SAMPLES	SOURCE OF DATA		
-	THE CONTRACTOR OF THE RESERVENCE AND THE RESERVENCE AS THE RESERVE	MEAN	MEDIAN	MIN	MAX	SAMIFLES			
	TUNA (Canned, Light)	0.12	0.08	ND	0.85	131	FDA SURVEY 1990- 03		

Fish tissue PCB concentrations

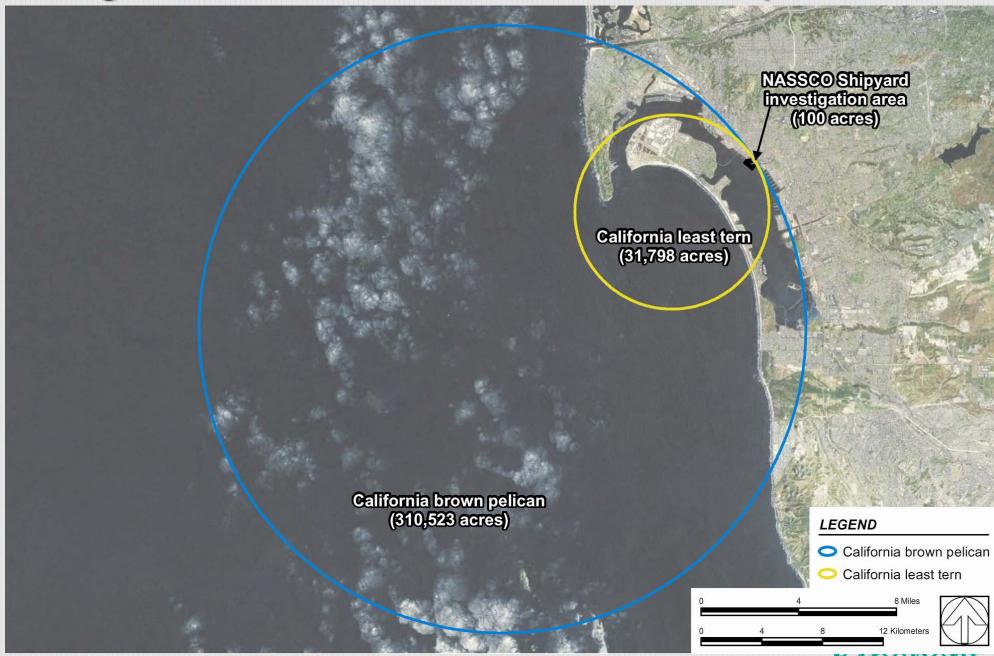
- NASSCO PCB concentrations were similar to or lower than those measured elsewhere in San Diego and California
 - County of San Diego Health Risk Study (1990) found no difference in PCB tissue concentrations by location
- PCB concentrations in fish collected from inside NASSCO leasehold are lower than FDA's action level of 2 ppm

Using more realistic assumptions, risk estimates are well below levels of regulatory concern

- All risks are below the 1 in 100,000 benchmark as defined by CAL EPA
- All PCB risks are below the OEHHA benchmark of 1 in 10,000 set specifically for fish consumption

 Not surprising, given the fact that the tissue contaminant levels are no greater than "background" reference locations

DTR Ignores Actual Area Use for Wildlife Species



Actual Risk to Wildlife is Negligible

Lowest Adverse Effect Level HQs for NASSCO and Reference (Unmodified from DTR)

Receptor	Location	Arsenic	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Zinc	B[a]P	PCBs	TBT
Brown Pelican												
	Inside NASSCO	0.008	0.04	0.01	0.02	0.3	0.002	0.2	0.03	0.02	0.2	0.0002
	Outside NASSCO		0.07	0.01	0.02	0.3	0.002	0.1	0.03	0.02	0.1	0.0003
	Reference	0.006	0.02	0.007	0.007	0.2	0.001	0.05	0.03	0.02	0.09	0.00007
Green Turt	tle											
	Inside NASSCO	0.0008	0.01	0.02	0.01	0.004	0.0003	0.003	0.008	0.003	0.0002	0.0000011
	Reference	0.0005	0.005	0.003	0.003	0.001	0.0002	0.003	0.004	0.001	0.0001	0.0000003
Least Tern	1											
	Inside NASSCO	0.02	0.05	0.02	0.03	0.07	0.002	0.06	0.1	0.03	0.1	0.00008
	Outside NASSCO	0.02	0.04	0.02	0.02	0.07	0.002	0.07	0.1	0.03	0.2	0.0001
	Reference	0.01	0.1	0.02	0.02	0.05	0.005	0.1	0.08	0.02	0.09	0.00008
Sea Lion												
	Inside NASSCO	0.009	0.0006	0.0003	0.0002	0.05	0.0009	0.03	0.003	0.0003	0.06	0.0001
	Outside NASSCO	0.01	0.001	0.0002	0.0002	0.05	0.0009	0.03	0.003	0.0002	0.03	0.0002
	Reference	0.008	0.0003	0.0002	0.00006	0.03	0.0007	0.01	0.003	0.000	0.02	0.00006
Surf Scote	er											
	Inside NASSCO	0.04	0.1	0.08	0.06	0.05	0.008	0.2	0.03	0.08	0.03	0.0005
	Reference	0.02	0.09	0.03	0.03	0.03	0.004	0.2	0.03	0.03	0.03	0.0002
Western G	rebe											
	Inside NASSCO	0.01	0.05	0.02	0.03	0.04	0.001	0.03	0.05	0.02	0.06	0.00004
	Outside NASSCO	0.008	0.03	0.01	0.02	0.03	0.001	0.03	0.06	0.02	0.07	0.00005
	Reference	0.006	0.06	0.01	0.01	0.02	0.002	0.06	0.04	0.01	0.04	0.00004
Ginn	Ginn 11/14/2011 presentation, slide 45									L	<i>r</i> por	lem

Actual Risk to Wildlife is Negligible

Ginn 11/14/2011 presentation, slide 43

No-Effect HQs for NASSCO and Reference Using 5X Realistic Area Use Factors

Receptor	Location	Arsenic	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Zinc	B[a]P	PCBs	TBT
Brown Pel	ican											
	Inside NASSCO	0.0006	0.004	0.006	0.3	0.03	0.002	0.01	0.006	0.005	0.07	0.0002
	Outside NASSCO	0.0008	0.007	0.005	0.2	0.02	0.002	0.01	0.006	0.004	0.03	0.0004
	Reference	0.0005	0.002	0.003	0.08	0.02	0.001	0.004	0.005	0.004	0.02	0.0001
Green Turt	tle											
	Inside NASSCO	0.0002	0.003	0.02	0.3	0.0009	0.0007	0.0006	0.004	0.002	0.0002	0.000004
	Reference	0.0001	0.001	0.003	0.09	0.0003	0.0005	0.0006	0.002	0.0008	0.0001	0.000001
Least Tern		-										
	Inside NASSCO	0.0009	0.004	0.007	0.3	0.005	0.001	0.004	0.02	0.004	0.03	0.0001
	Outside NASSCO	0.001	0.003	0.006	0.2	0.005	0.001	0.005	0.02	0.004	0.04	0.0001
	Reference	0.0008	0.009	0.007	0.1	0.003	0.003	0.008	0.01	0.003	0.02	0.0001
Sea Lion												
	Inside NASSCO	0.003	0.0002	0.001	0.001	0.01	0.004	0.02	0.003	0.0001	0.004	0.0001
	Outside NASSCO	0.004	0.0004	0.001	0.0008	0.009	0.004	0.01	0.003	0.0001	0.002	0.0003
	Reference	0.002	0.0001	0.0007	0.0003	0.006	0.003	0.005	0.002	0.0001	0.002	0.0001
Surf Scote	r	-										
	Inside NASSCO	0.003	0.01	0.04	0.8	0.004	0.006	0.02	0.007	0.02	0.007	0.0006
	Reference	0.002	0.009	0.01	0.4	0.003	0.003	0.02	0.005	0.006	0.009	0.0002
Western G	rebe											
	Inside NASSCO	0.0006	0.005	0.007	0.3	0.004	0.001	0.002	0.009	0.003	0.02	0.0001
	Outside NASSCO	0.0006	0.003	0.005	0.2	0.003	0.001	0.003	0.01	0.003	0.02	0.0001
	Reference	0.0005	0.006	0.005	0.1	0.002	0.002	0.005	0.007	0.002	0.01	0.00005
											ADOL	

Summary of Dr. Allen's Opinions March 11, 2011 Expert Report

The Order fails to incorporate bioavailability...

- 1. *Metals* in sediments at NASSCO do not cause potential risks to aquatic life.
- 2. Polycyclic Aromatic Hydrocarbons (PAHs) at NASSCO will not be toxic to aquatic organisms.
- 3. Bioaccumulation. Macoma tissue testing not indicative of bioaccumulation risk.
- 4. Pore Water. Inappropriate to compare pore water concentrations to criteria developed for *surface* water.



Conclusion

This Board may:

- 1) Find that beneficial uses at NASSCO are not unreasonably impaired
 - Allow natural attenuation to continue; natural deposition of sediment over the surface
 - Order an extensive study and long-term monitoring to ensure continued improvement, OR
- 2) Order dredging of the one likely impaired station at NASSCO, NA19, at cost of \$4 million, OR
- 3) Adopt order as drafted, OR
- 4) Modify the order to increase dredging or monitoring **(ensuring litigation)**