Indian Point Energy Center

Stakeholder Briefing

March 16, 2006

- o Introduction a
- Overview of Investigation
- o Montteoring Program
- Next Steps
- Siren Projects

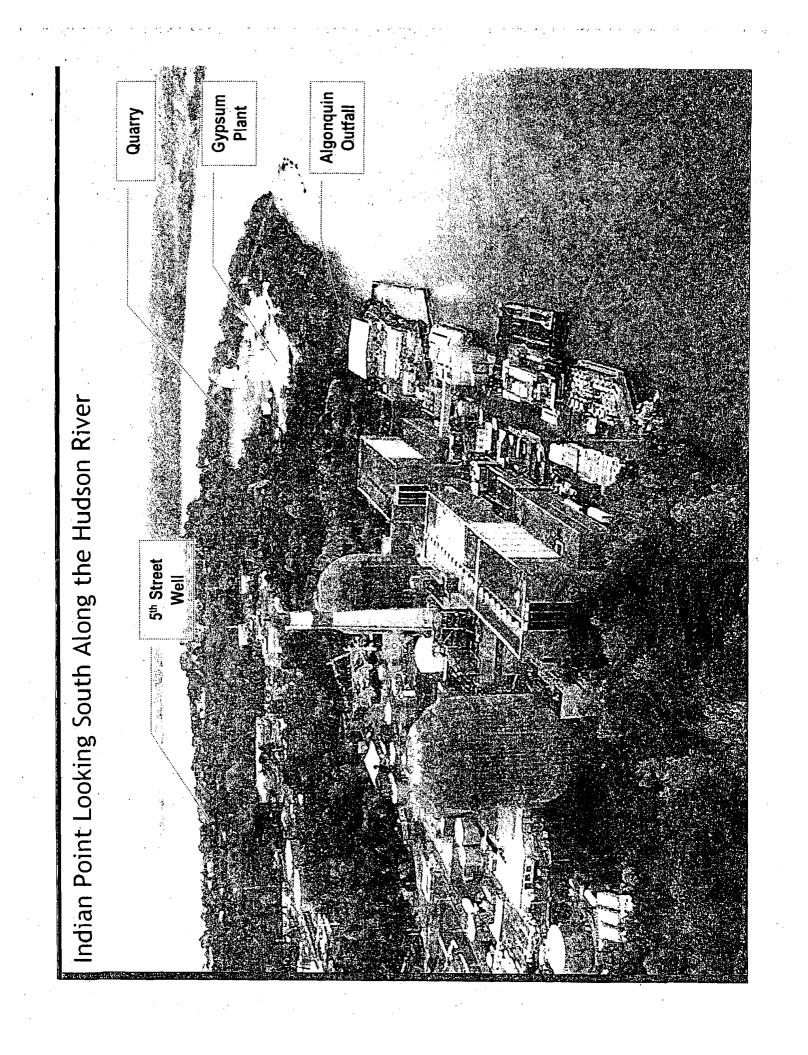
Fred Dacimo

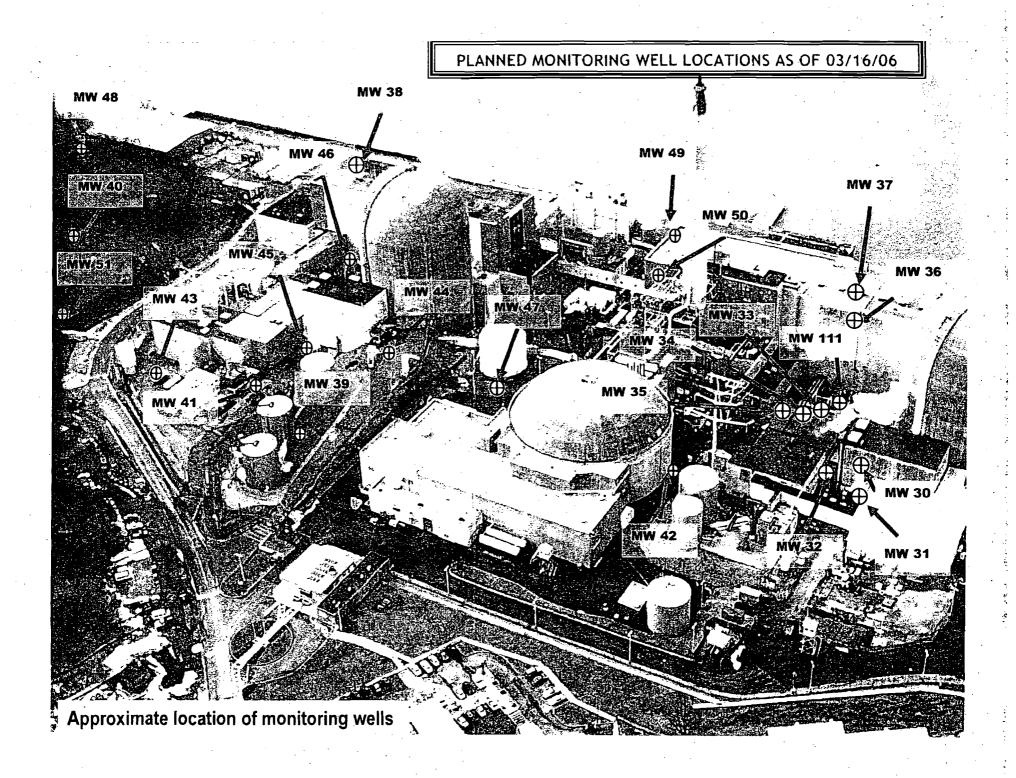
- Don Mayer
- Mark Barvenk
- Don Mayer
- Don Mayer
- Mike Slobodien
- lim Rice

Radioactivity Investigation

Don Mayer

Director, Special Projects





Redioedinity investigation over

dentification of Leak from 192 Spant Fuel Pool

Hairline settlement gracks identified in Fuel Stofage Building wall during excavation for new gantry crane

Moisture in crack tested for radioactivity

Radionuclides characteristic of spent fuel pool identified in sample.

Leakage collected, sampled, and trended 2 Permanent leak collection box designed and installed Leakage from crack has stopped

- rested existing wells on site for radioactivity
- Tested off-site well locations for radioactivity-none detected



Phase 1 Investigation

Installed 9 new wells to determine groundwater All wells arrited and sampled dharactenistics around IP2

Phose 2 Investigation

Will install approximately 14 wells in phase 2 to elia no wolf retiew binoge eatherflow

9 of 14 wells completed

5 in progress

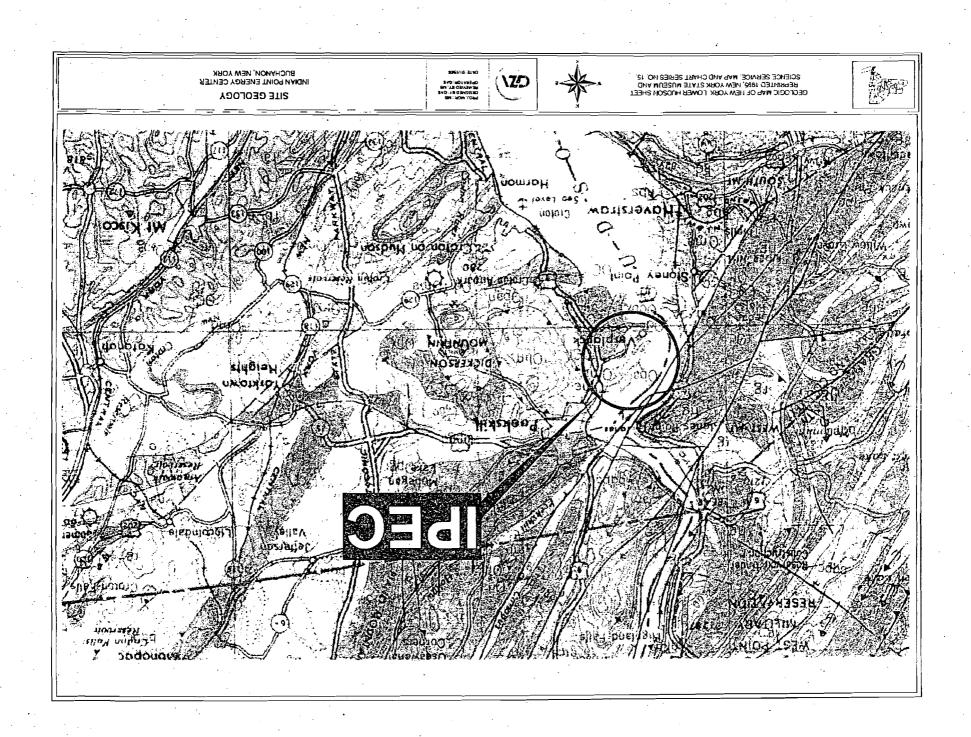
Expanded sampling program to include storm drains

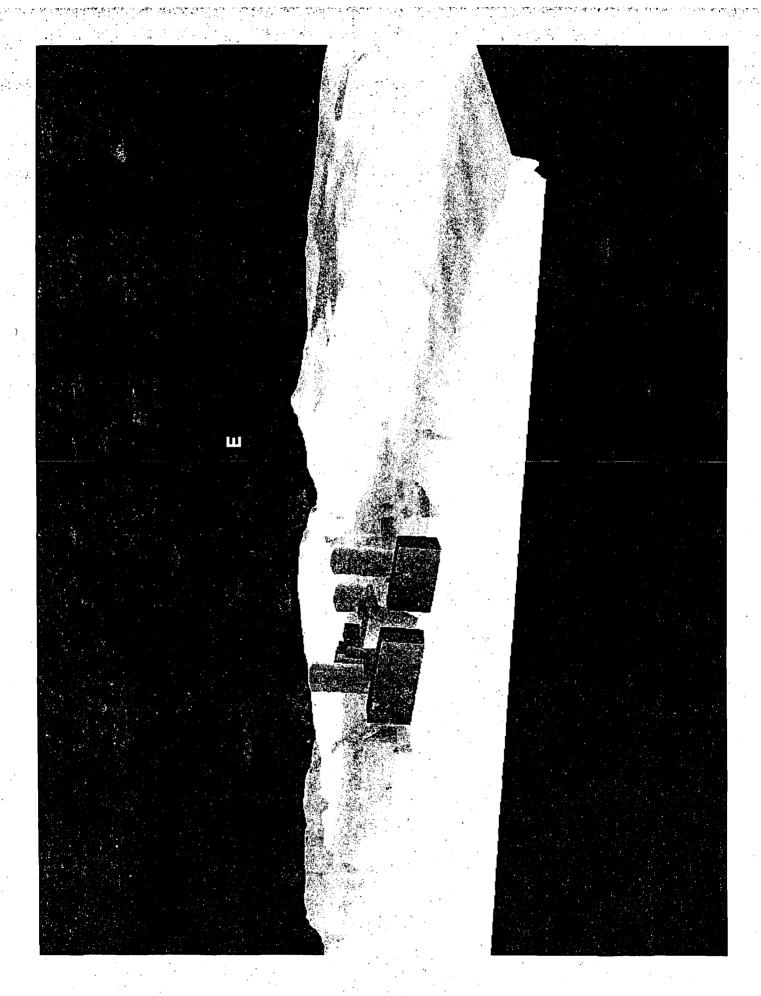
Conducting split sample program with NIRC and DEC

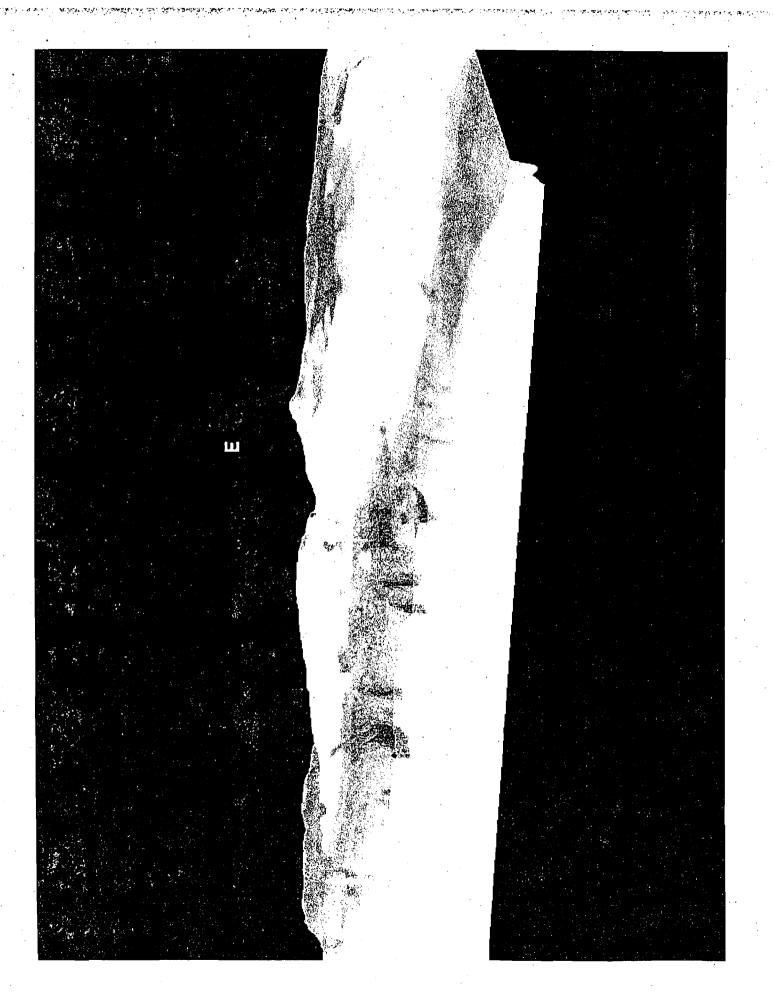
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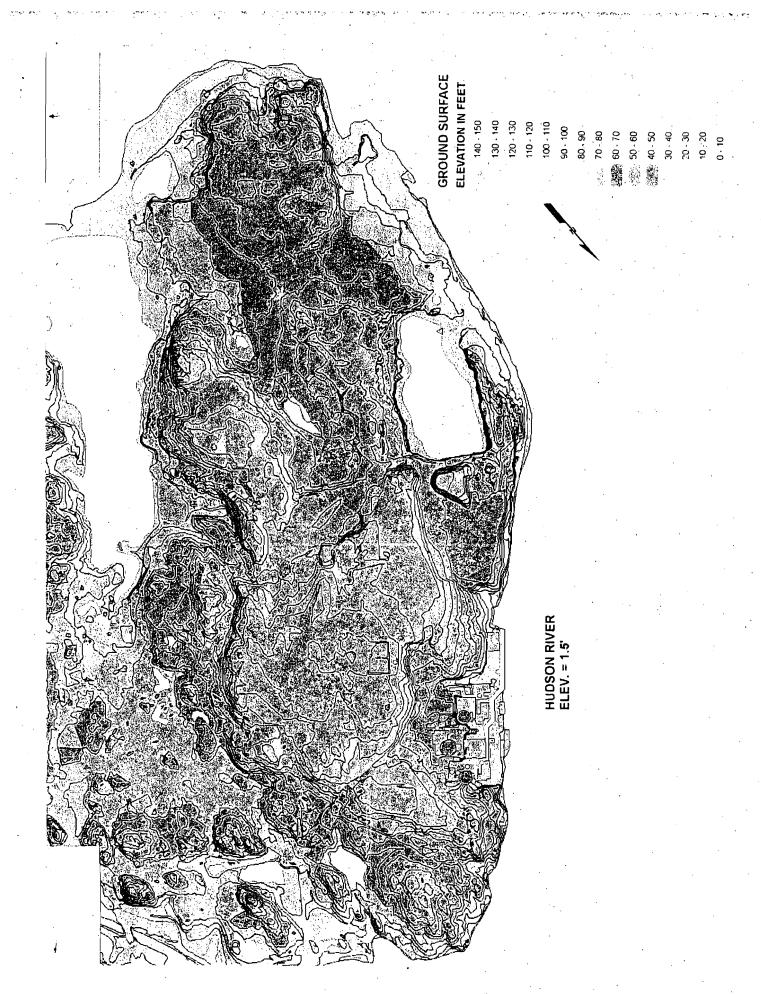
Matt Barvenik

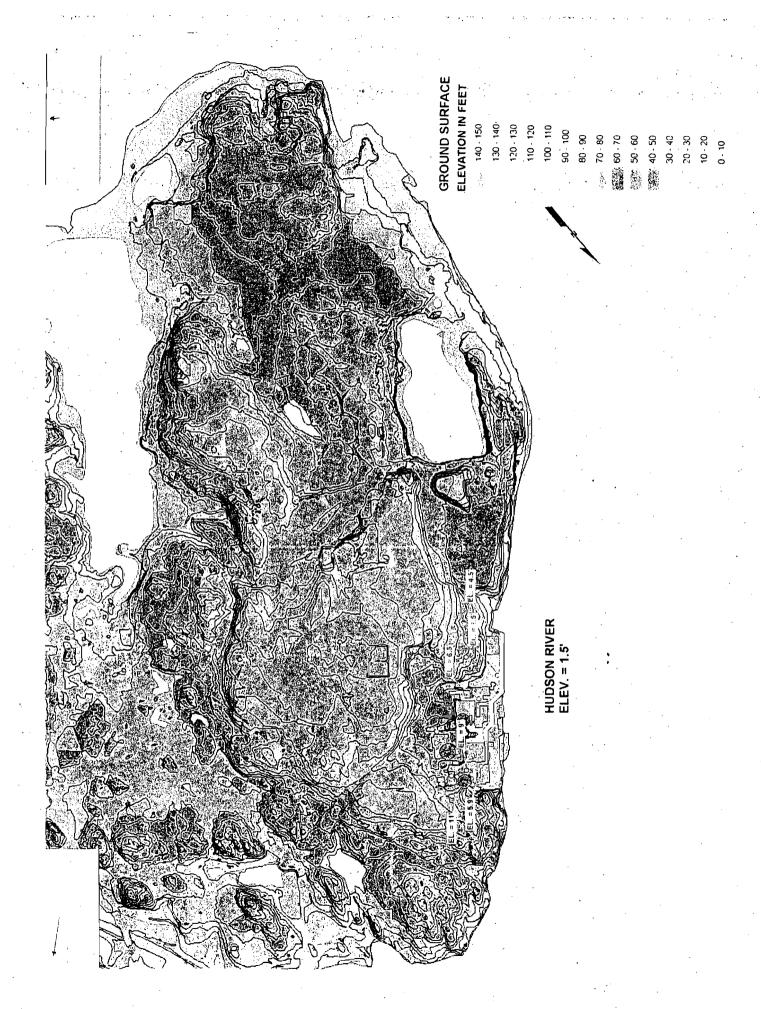
Senior Vice President

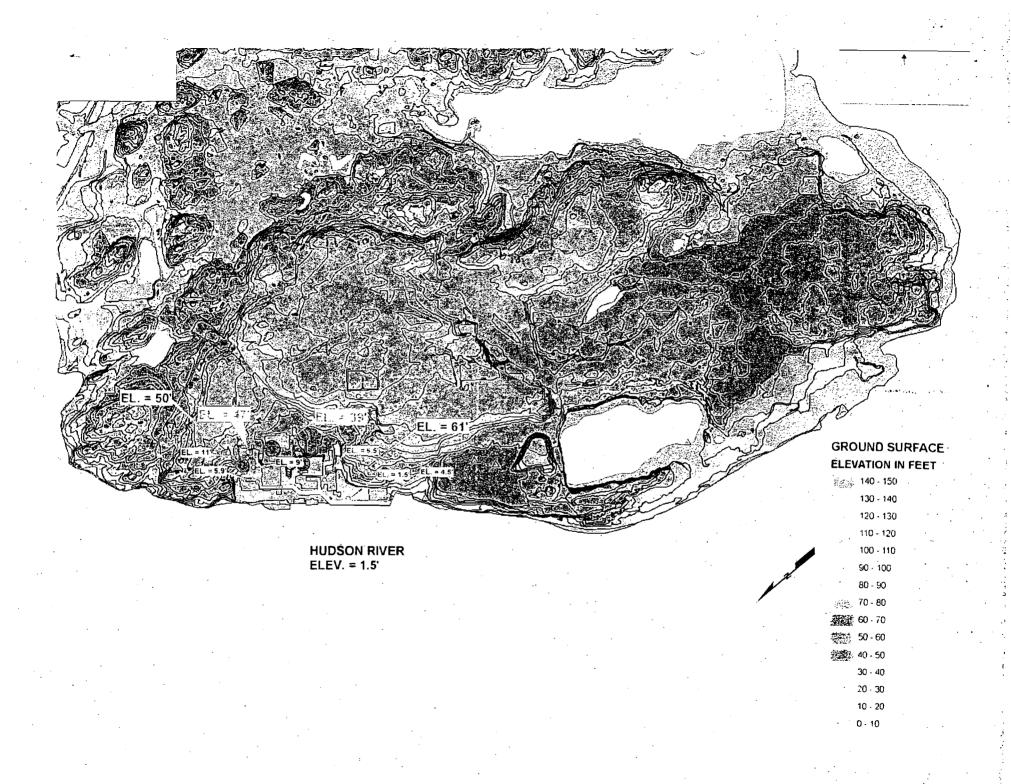


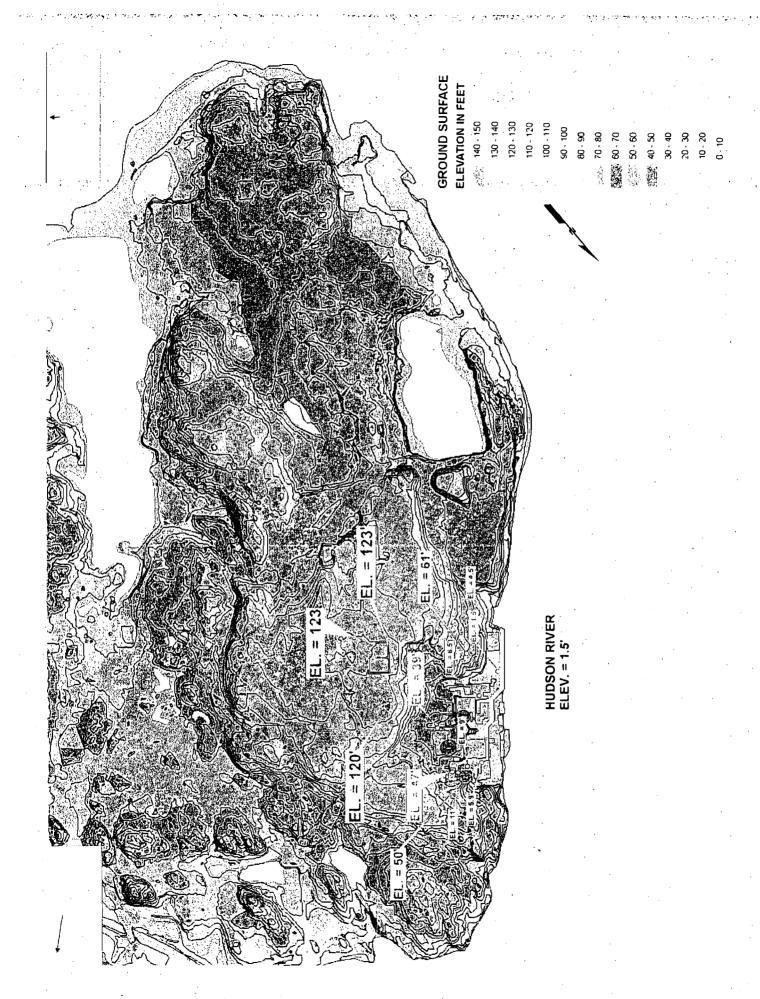


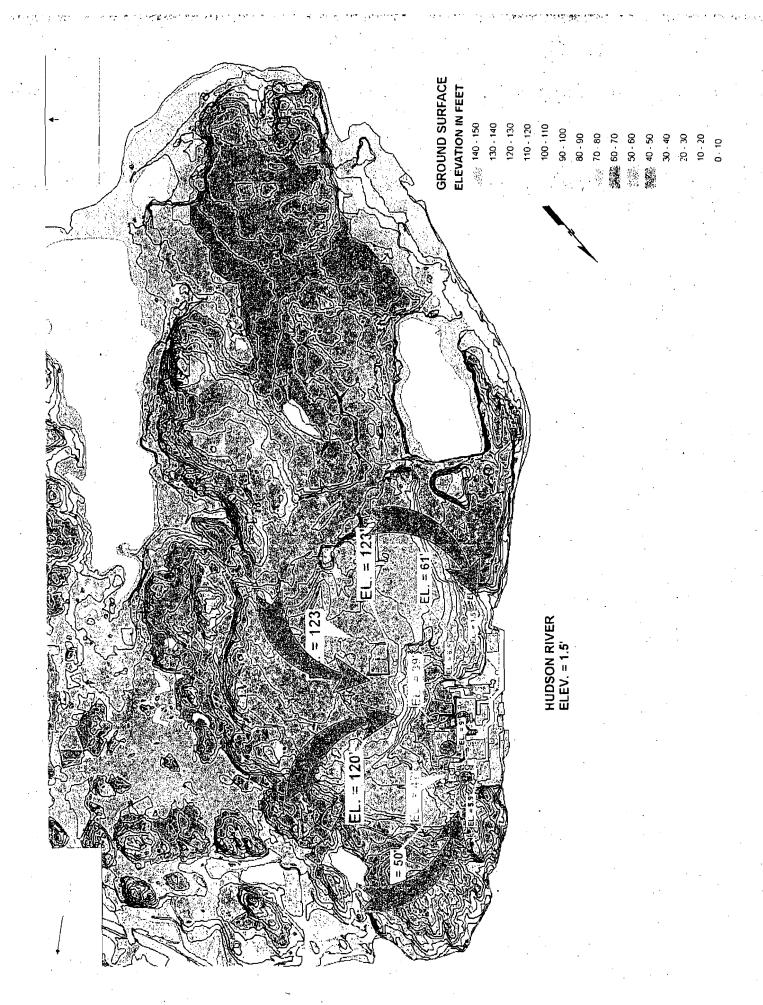


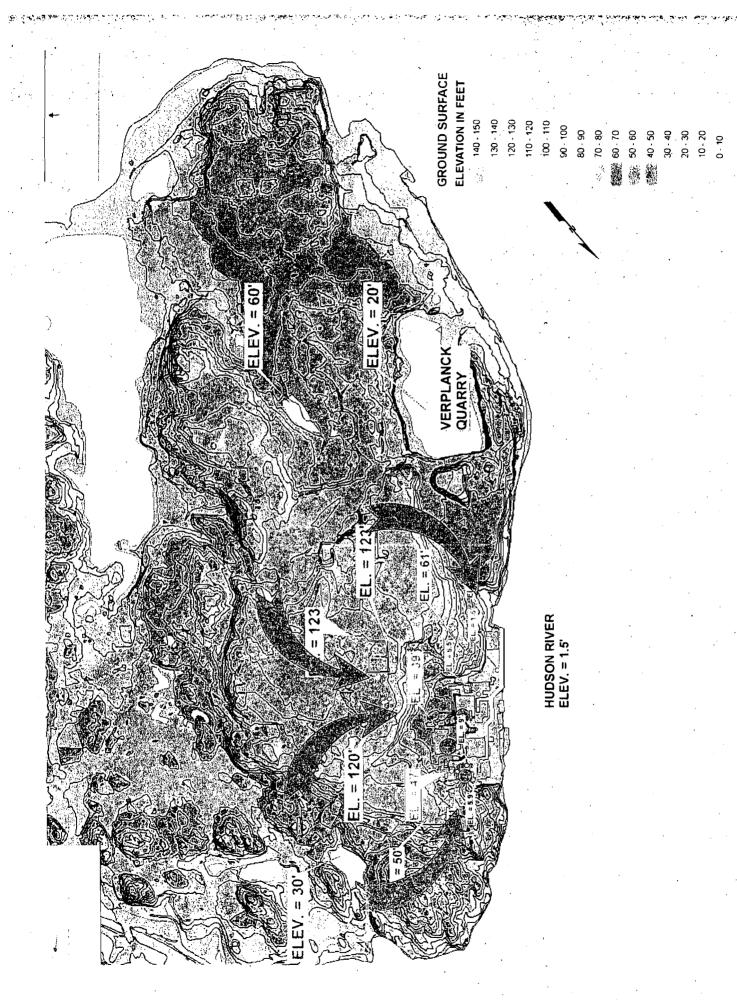


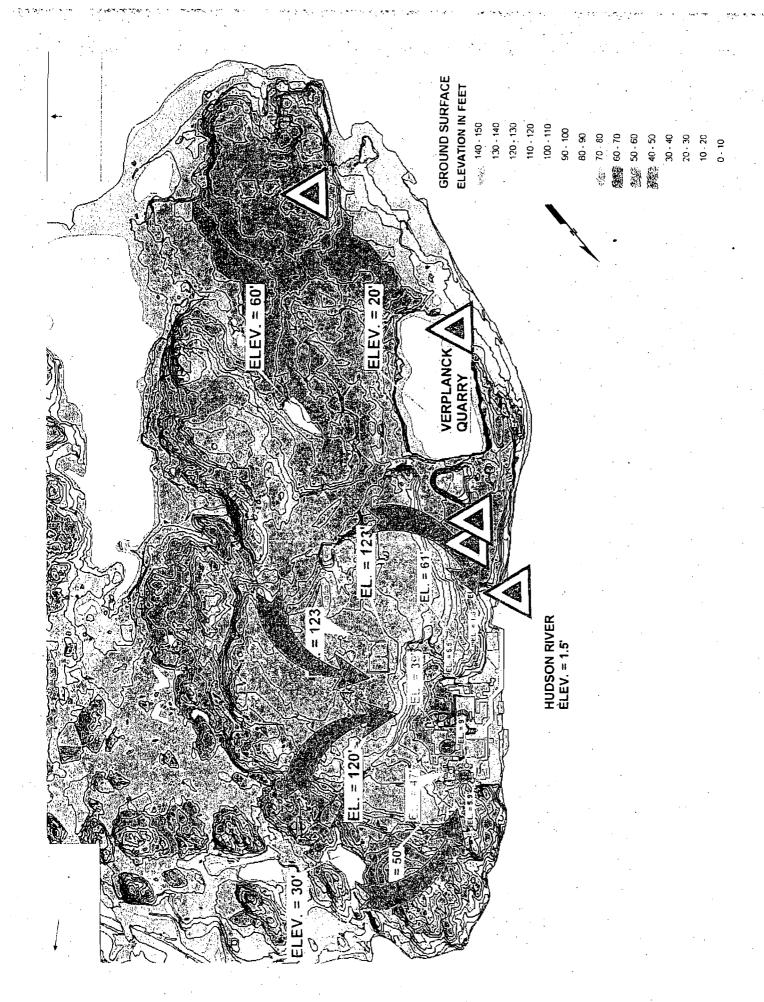




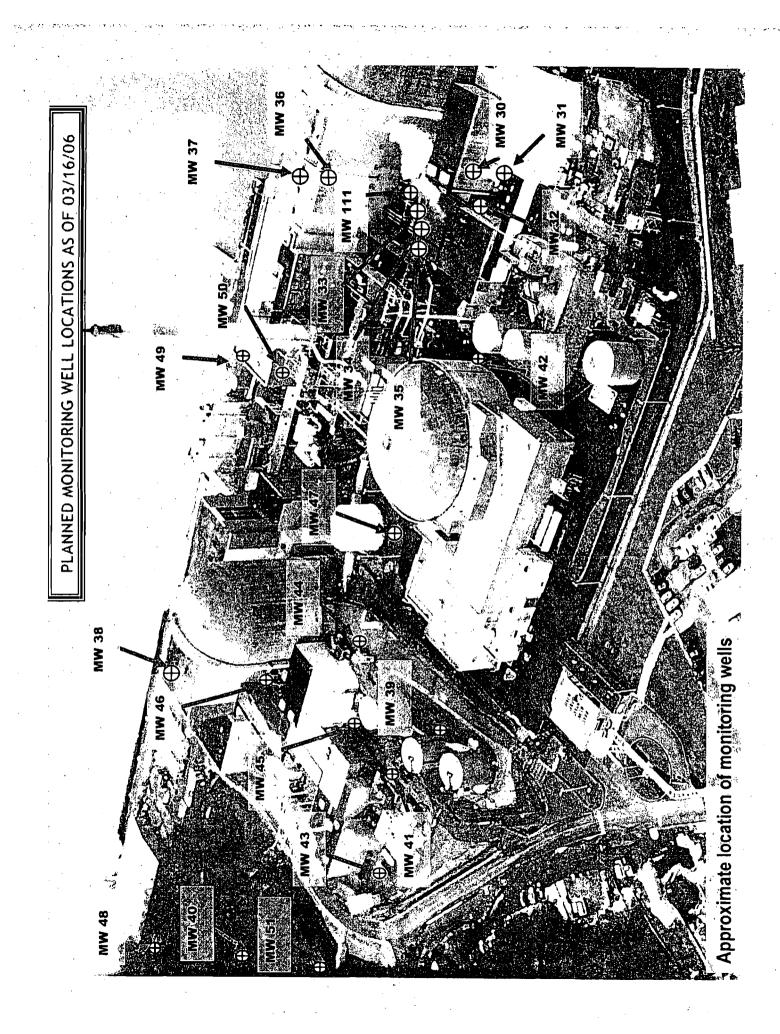


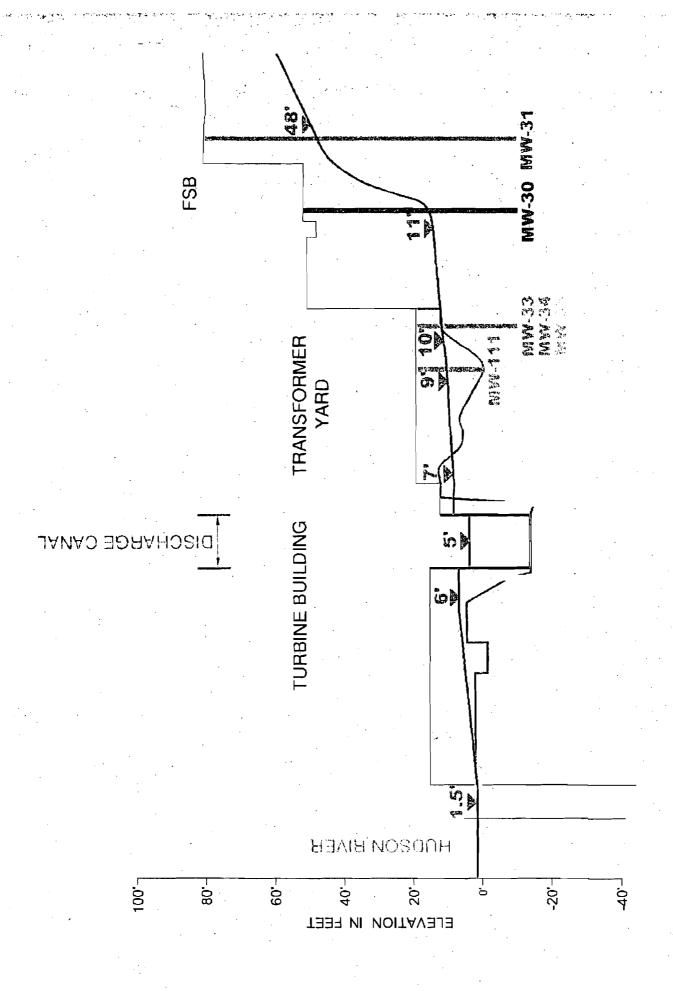


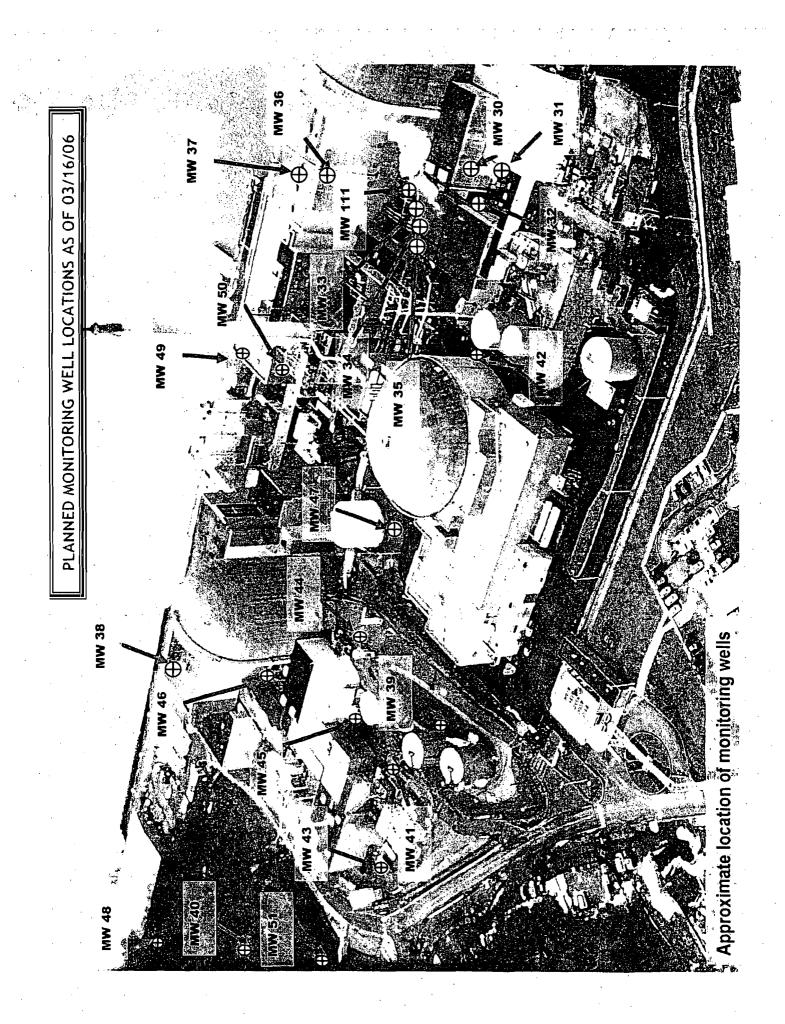




GROUND 140.000 130,000 100.000 120.000 150,000 80 000 40.000 -70 000 -60.000 20.000 20,000 HUDSON RIVER CAMPITION RESERVOIR







Receiped Investigation

- on Unite 2 SFP constructed of 446 feet of steel resenforced concrete with a 14". Stainless Steel Liner
- accessible areas of pool (cask léading area and above the o Divers and remote video cameras employed to Inspect (Syper lenger)
- Preliminary scoping inspection (video) of spant fuels pool floor
- Evaluating capabilities of vendors to inspect maccessible walls and floor
- Inspection found 6 indications requiring further evaluation
- All 6 areas leak tested and repaired with coating

Results to date

- Tritium levels are highest near IP2 spent fuel pool and 192, trainsformer yaird
- including low levels in some störm drainage systems Lower levels of tritium found in other locations
- Water movement on site has been influenced by
- Groundwater flow is generally from northito west and south toward Hudson River
- Sr-90 found in two wells (IP2 transformer yard and delicent to discharge canal

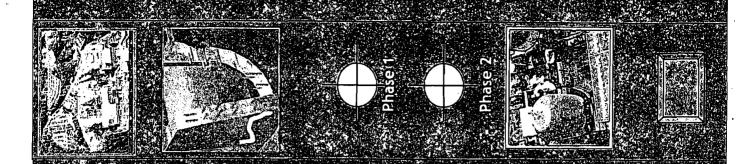
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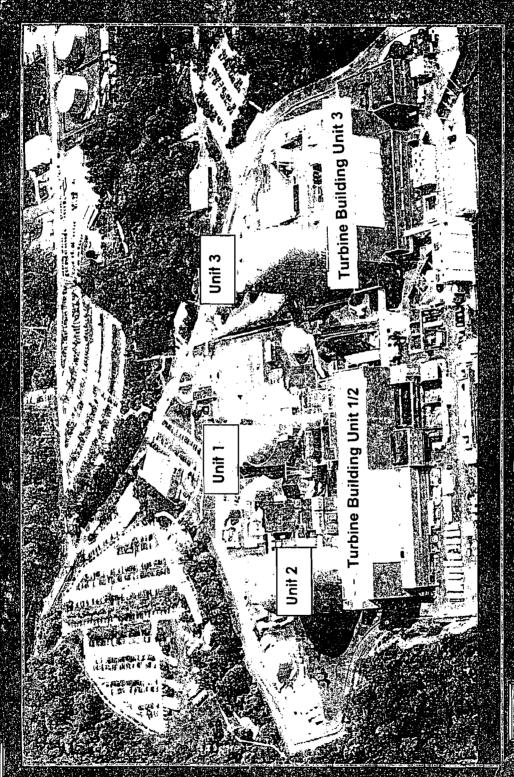
Radiological Impacts

- o No Indeact from groundwater baithway
- No groundwater drinking water supplies
- All samples off-site negative for radioactivity
- Supported by hydrology
- o insignificant impact river pathway
- Bounding calculation for river release pathway
- ullet < 0.1% of regulatory Umits
- Extremely small fraction of natural background

Next Steps

- Finish development of phase 2 wells to refine
- conceptual model of groundwater flow
- Conduct tracer tests
- Continue sampling program
- Determine mitigation/remediation strategy





Indian Point Energy Center

IP2 Loading Bay During Excavation

Artist depiction of spent fuel pool

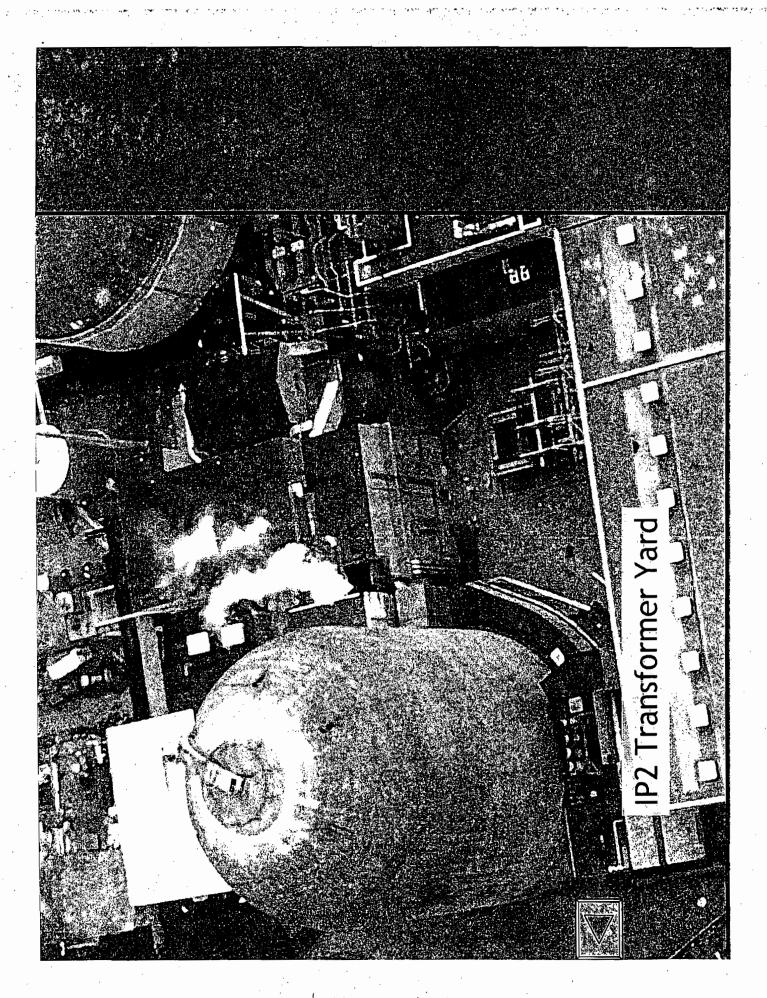
Approximate location of cracks. Enlarged for illustration

For illustration only



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aı	Date	Location	Samp Tritiu	Sample Results Tritium (pCi/L)
MW-111	3/3/06	Transformer Yard	2	236,000
MW-30	2/1/06	SFB	S.	511,000
MW-31	2/7/06.	Adjacent to SFB	ì	33,100
MW-32	2/1/06	SFB Alley Way		17,700
MW-33	3/3/06	Transformer Yard	7	253,000
MW-34	3/3/06	Transformer Yard	7	230,000
MW- 35	3/3/06	Transformer Yard	I .	119,000
MW-36	2/27/06	IP2 Turbine building	45,8	45,800 @ 41'
MW-37	2/25/06	IP2 Turbine Building	5'0£	30,500 @ 32'
MW-38		South perimeter near IP3		
	3/3/06	Entergy (Teledyne)	0897	ND-Sr
	12/8/05	New York State	701	
	12/8/05	Entergy	586	
MW-48		South perimeter		
	2/10/06	Entergy	ND-HTO	ND-Sr
		New York State	OIH-057	
	2/8/06	Algonquin/Gypsum	ND-HTO	ND-Sr
	2/8/06	Trap Rock Quarry/Hudson River	ND-HTO	ND-Sr
	9/29/05	Entergy Sr-90		ND
	10/21/05	New York State - Sr-90		3.



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