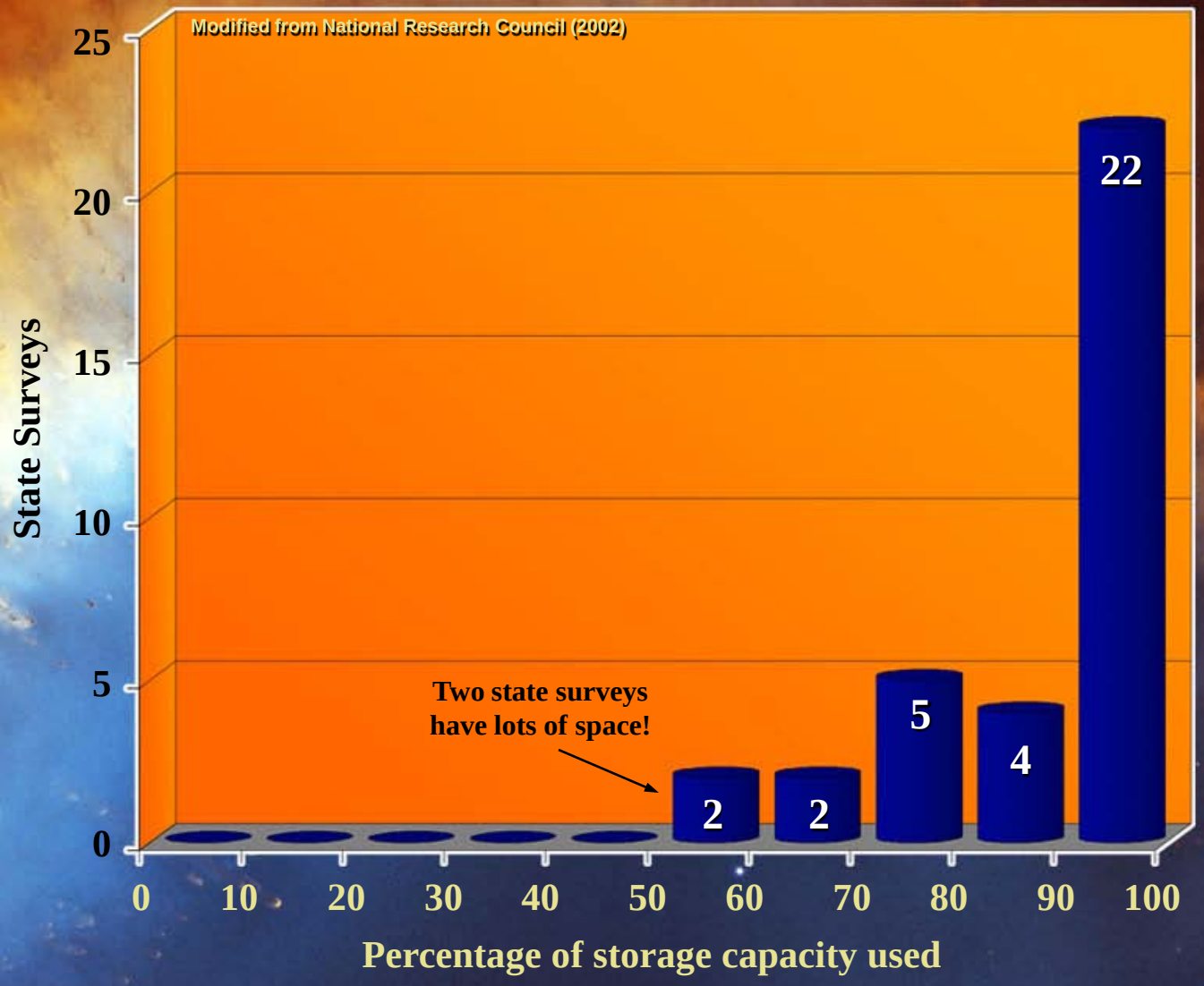
Core Preservation and Consolidation Project Reclaims Wasted Shelf Space

By Gregory A. Schumacher

“Space: The final frontier…”
http://www.nasa.gov/

Storage capacity used by 35 State Geological Surveys

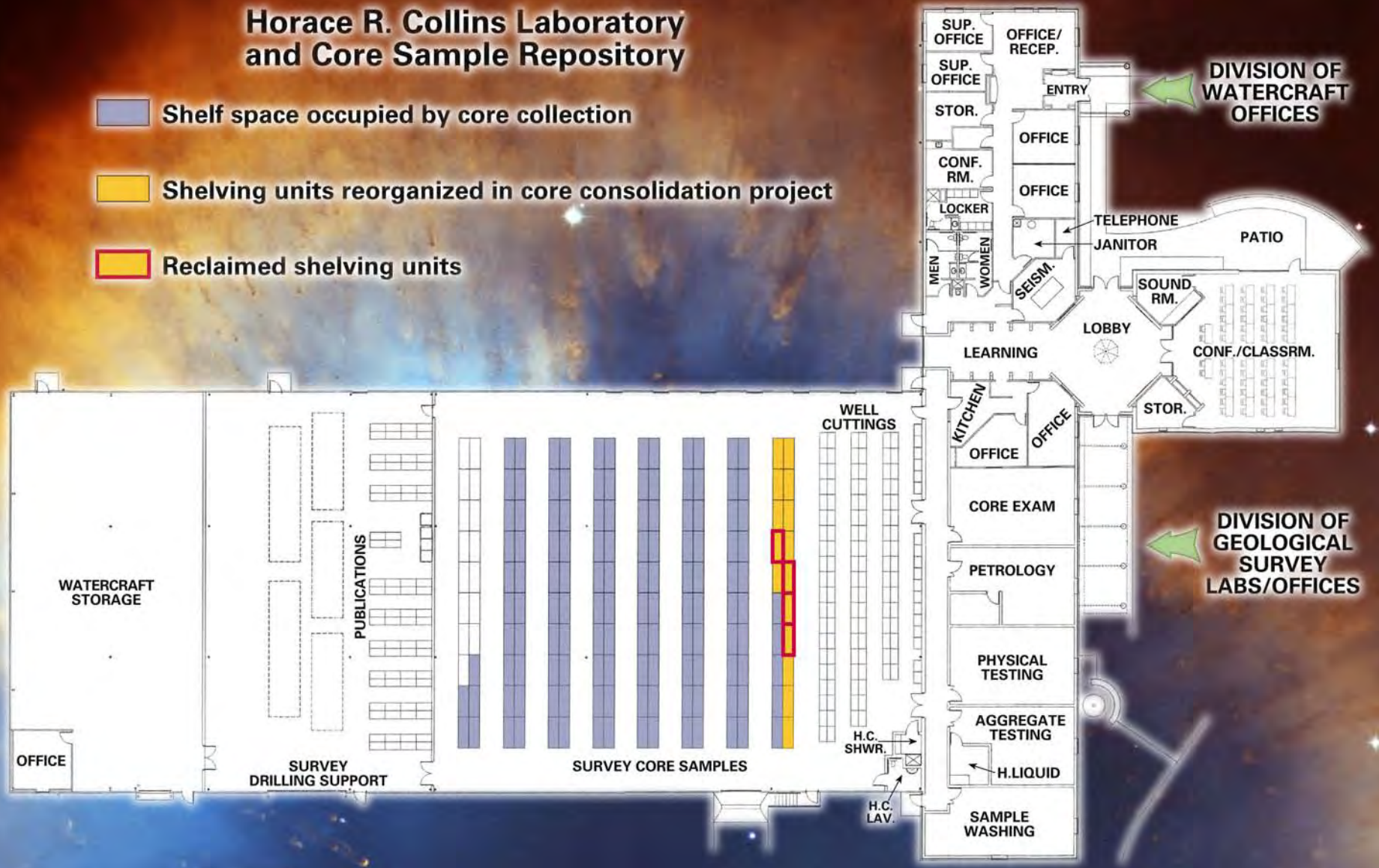


Horace R. Collins Laboratory and Core Sample Repository

Shelf space occupied by core collection

Shelving units reorganized in core consolidation project

Reclaimed shelving units



Wasted storage space

University of Toledo Subsurface Data Center

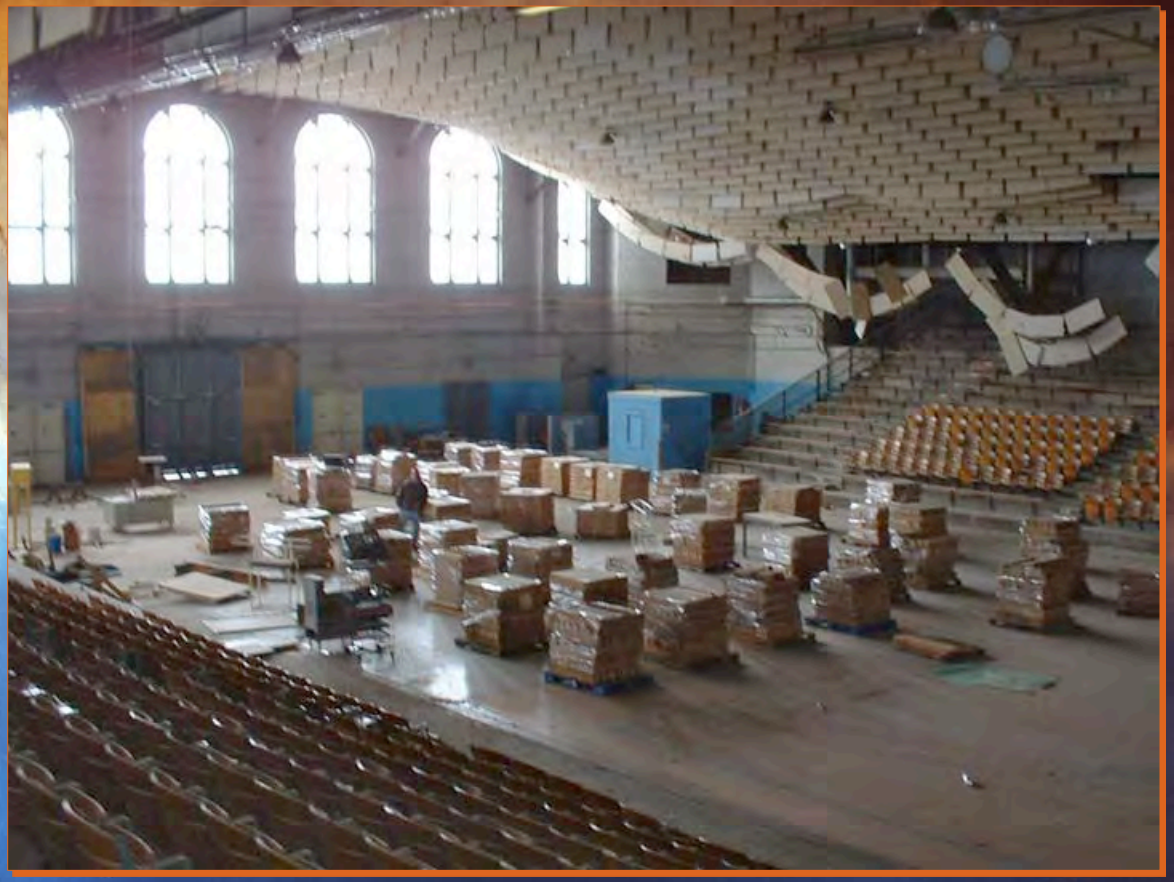
Small diameter core stored in oversized boxes

Shelf space reclaimed

Shelf space reclaimed

Reclaimed shelf space—17 of the 26 shelves

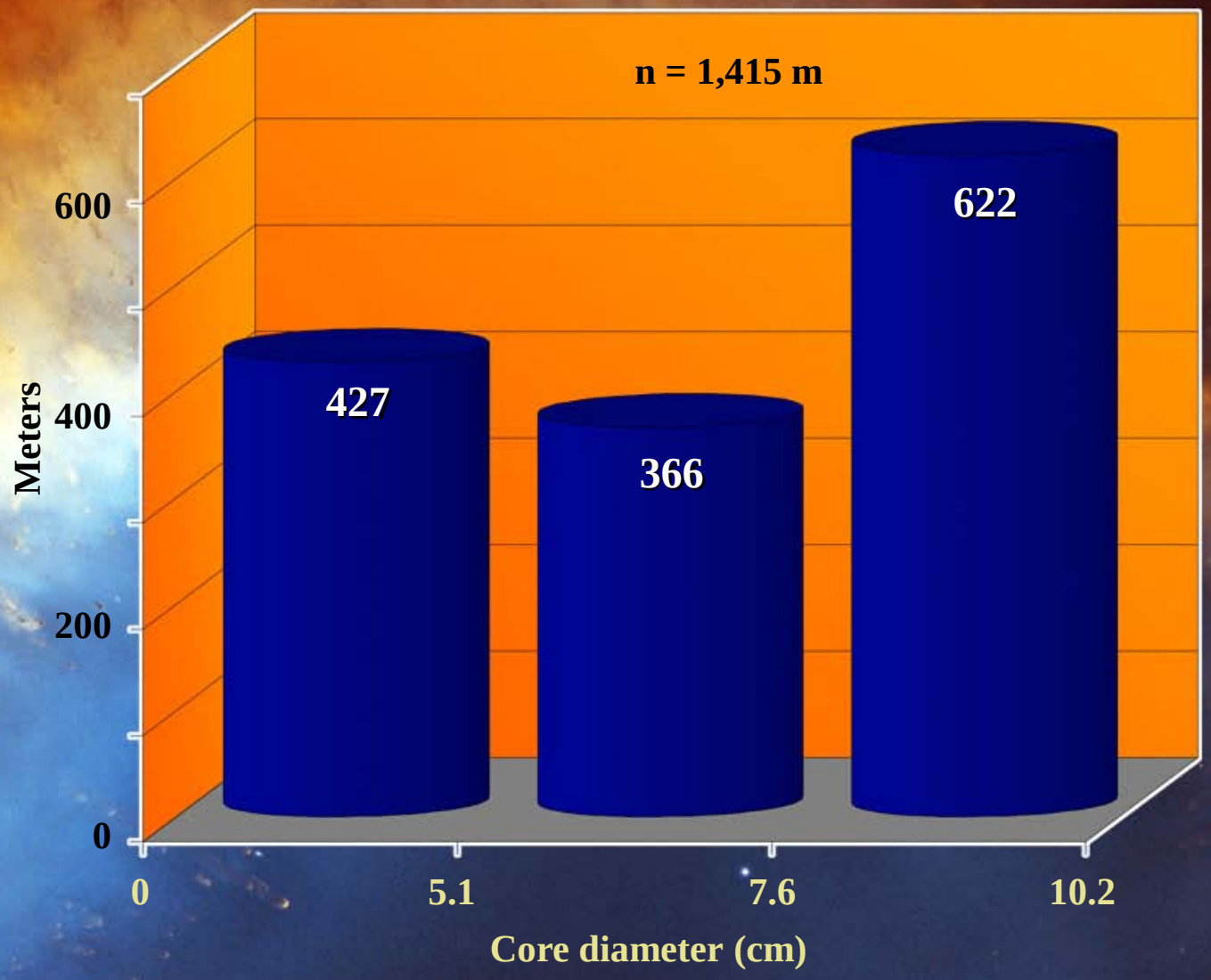
University of Toledo Subsurface Data Center

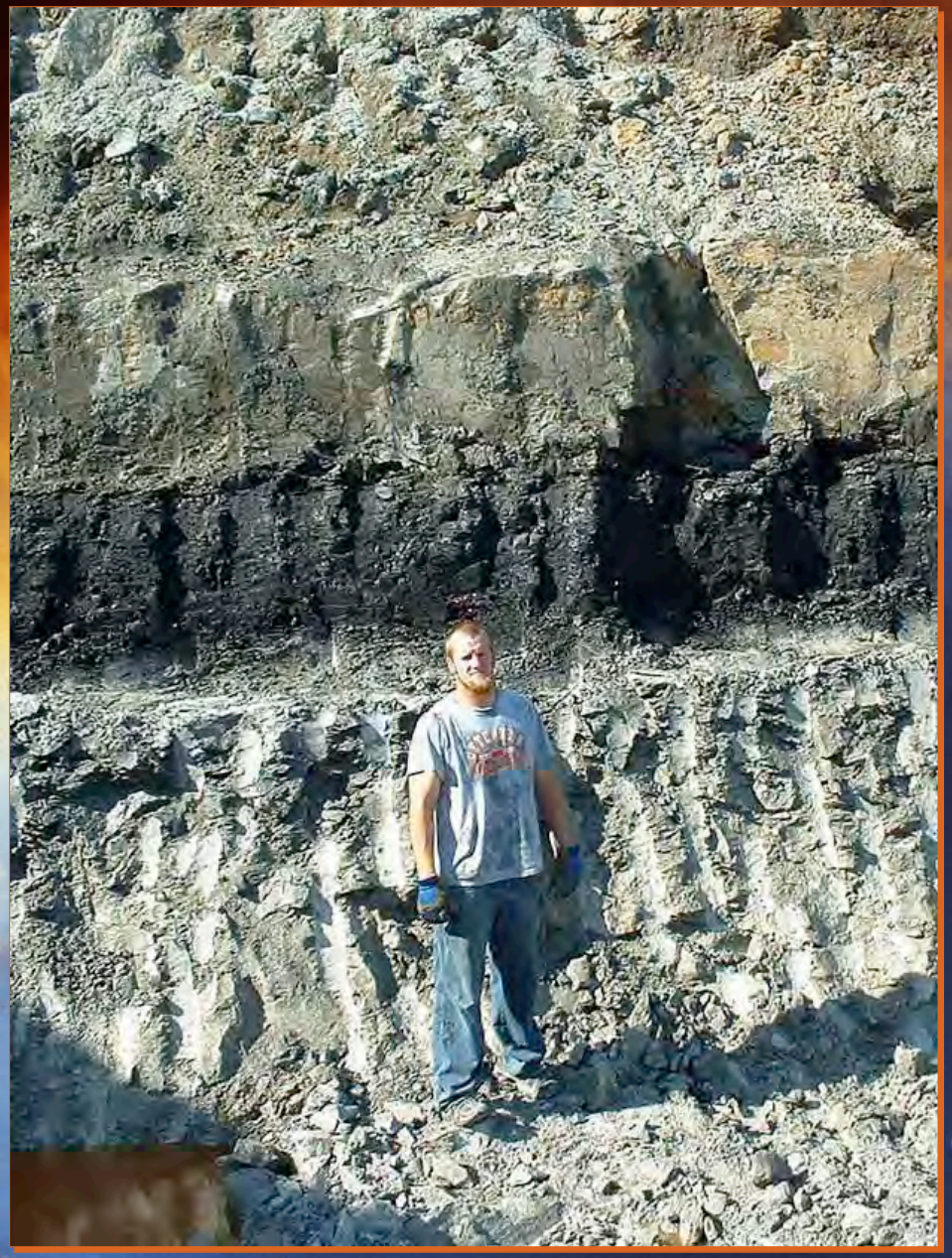


Core ready for shipment

Project nearing completion

University of Toledo Subsurface Data Center
Core stored on reclaimed shelf space





PROJECT COST / BENEFIT

Labor cost $9 to $11/hour

250 hours required to complete project

Total cost = $2,500

PROJECT COST / BENEFIT

New core boxes:

540 boxes for 10.1 cm core @ $2.75/box =	$1,485.50
140 boxes for 7.6 cm core @ $4.12/box =	$576.80
140 boxes for 5.1 cm core @ $ 1.31/box =	$183.40
Total cost =	$2,245.70

PROJECT COST / BENEFIT

New shelving

SPECIALISTS IN ALL TYPES OF NEW & USED MATERIALS HANDLING EQUIPMENT

LUDLOW SALES & SERVICE

PHONE: (614) 443-6514 - FAX: (614) 443-8199

5/5/2009

TO: OHIO DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SERVICES
ATTN. GREG SCHUMACHER

Proposal Number

Quantiy	Description	Unit Price	TOTAL PRICE
	PLEASE ACCEPT OUR REVISED PROPOSAL FOR THE EQUIPMENT WE DISCUSSED		
	PRICES ARE BASED ON QUANTITIES QUOTED		
1 SECTION	NEW CARDINAL PALLET RACKS	$725.00	
	CONSISTING OF: 2 UPRIGHT FRAMES-30" X 120" CAPACITY- 14,400#, BASED ON A MAXIMUM OF 48" BETWEEN LEVELS		
	14-STEP BEAMS-96" CAPACITY PER PAIR-3,765#		
	14-WIRE DECKS-30" X 46" (3,000#)		
	FOR FREIGHT, ADD	$225.00	
	FOR NON-UNION LABOR TO INSTALL, ADD	$275.00	
	*****FOR 25 OR MORE UNITS, THERE IS A 10% DISCOUNT AND THERE WILL BE A FREIGHT SAVINGS		
	***THERE ARE COLOR CHOICES AVAILABLE		
	***FOR WOOD DECKING, ADD	$75.00	
	NON CANCELLABLE OR RETURNABLE PLUS TAX & FREIGHT		

F.O.B. SEE ABOVE
Shipment: 3 WEEKS ARO
Terms: NET 10 DAYS, WITH APPROVED CREDIT

Total = $1,300

All agreements are subject to the conditions of sale printed on the back of this sheet.

Ludlow Sales & Service

MARK TAYLOR

$1,300 per 7 shelf unit
Reclaimed 26 shelves = 4 shelving units

$1,300 x 4 = $5,200

PROJECT COST / BENEFIT

Construction costs

4 new shelving units and aisle space requires 576 ft^2

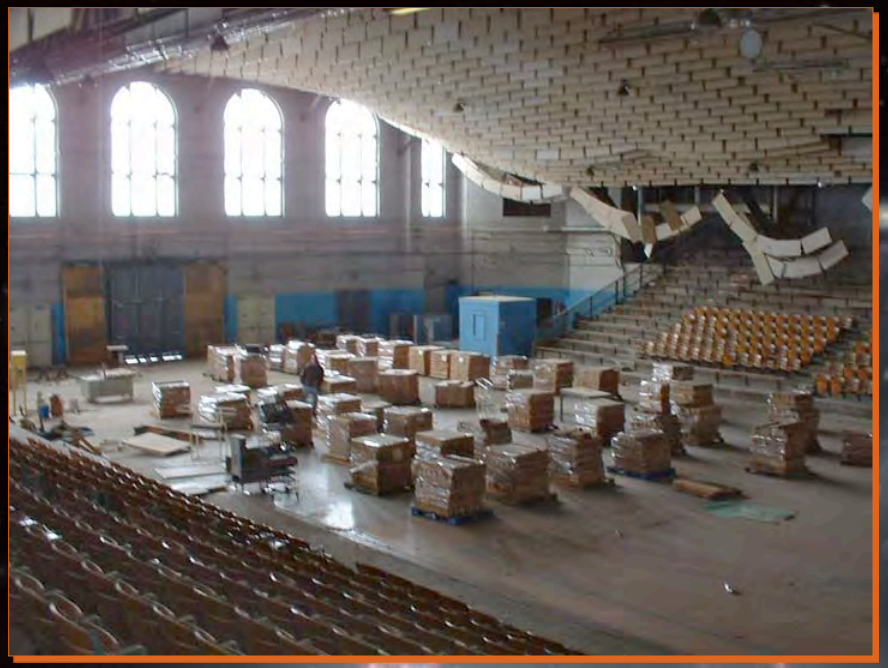
ODNR, Division of Engineering estimate of cost per ft^2 = $60

Total = $34,560

COST / BENEFIT SUMMARY

SAVINGS		COSTS	
New shelving	$5,200	Labor	$2,500
New construction	+ $34,560	New boxes	+ $2,245
TOTAL	$39,760	TOTAL	$4,745

TOTAL	$39,760
PROJECT	- $4,745
SAVINGS	$35,015



CONCLUSIONS

Core consolidation projects:

- **Maximize existing storage capacity**
- **Preserve existing collections**
- **Allow acquisition and preservation of new core and samples**