A Mirror Cracked: Ten Keys to the Landscape of the Calumet Region

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In the geographical literature, Chicago is often portrayed as a mirror for urban America, with its relentless township and range grid, its social areas rippling away from the Loop in concentric rings and sectors, its humming growth machine vying for power with vigorous neighborhood associations. Just as surely, the mirror shatters when it is held up to the heavily industrialized Calumet region at the southern tip of Lake Michigan. It is not for want of trying to capture a coherent picture. The region has been the scene of pioneering studies in ecological succession (Cowles 1901), Pleistocene geomorphology (Salisbury and Alden 1900; Engel 1983), sequent occupation (Meyer 1954; 1956), industrial organization (Appleton 1927), and water transportation (Mayer 1957). More recently, researchers have conducted compelling studies of deindustrialization (Markusen 1985; Bensman and Lynch 1987; Clark 1990), hazardous waste disposal and toxic releases (Colten 1985), community development (Peterman 2000), and recreational and open space landscape development.

But while this multifaceted picture fails to cohere either in the minds of geographers or in the eyes of visitors, it may be that there is a rough kind of cubist logic to the whole. Each of these studies captures one shard of the regional reality with crystal clarity: Their jarring juxtaposition is what makes the region both unique and archetypal of what happens when industry meets nature in a relatively large slice of urban America.

This paper introduces a brief interpretive frame for this extraordinary ordinary landscape by offering ten interpretive "keys"—or significant landscape-shaping elements—to the landscape. They owe at least as much to the studies noted above, and in the footnotes, as they do to the author's own observations gleaned after 16 years of teaching in the region and working on various regional issues, with an obvious focus on the Illinois side of the state line that bisects the area. My colleagues and others who live and work in the area could no doubt delete some keys and add others, and that is part of the serious fun that is intended here. The notion that what is important is in dispute is, in fact, part of the point: as citizens and others who work in the Calumet region struggle to rehabilitate the economy and environment, what rises to the top of the agenda depends on how the region is comprehended. This is one take.

Key #1: The Wet Pool Table

There are two kinds of basement in the Calumet region: those that are wet and those that are about to be. The 35 inches of precipitation that the region annually receives have some difficulty in deciding where to go. At one time the Grand Calumet River that—to put it strongly—"flows" across the landscape, actually had two outlets into Lake Michigan. (One of them was widened to form the main stem of the Calumet River beginning in 1869; the other was obliterated by the construction of U.S. Steel's Gary Works in 1906.) Which mouth was "active" depended on wind and on current-borne sand in Lake Michigan.

From the dunes and mills that line modern Lake Michigan to the enveloping Valparaiso Moraine that rises as much as 200 feet some 20 miles to the
south, the region occupies the flat former bottom of glacial Lake Chicago. As that lake was drained in stages (over Niagara Falls, or out the spillway through the moraine now occupied by the Des Plaines River southwest of downtown Chicago), a series of small beach ridges paralleling the lakefront developed. These beach ridges served to frame the watery swales that hold roughly a quarter of Cook County's wetlands, lakes such as Calumet, Wolf, and George, and for at least 10,000 years they have also served as dry foot paths through the marshes, bogs, fens, and swamps.

Because Americans have only recently come to appreciate the value of wetlands as habitat, as flood retention, as a filter for contaminants, land as wet as this could be seen as tabula rasa for industrial development, municipal waste disposal, or as “waste” land. With downtown Chicago developing on a constricted site at the mouth of the Chicago River 10 miles to the north, why not move large scale industry here? Why not use it to dump slag or urban waste? What else would it be good for?

**KEY #2: PIPE OF PEACE IN DEADSTICK POND**

French fur traders used the word “Calumet” to describe the “peace pipe” in broad use throughout the upper Midwest. These pipes consisted of pipestem reeds affixed to a bowl of good Minnesota pipestone. The reeds

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**The Calumet Region**

**Key Features**

1) Deadstick Pond  
2) Chicago Skyway Bridge  
3) Closed Steel Mills (Brownfields)  
4) Landfills  
5) Altgeld Gardens

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*Figure 1.*
grew in many places, but did especially well in the Calumet
wetlands. There Potawatomi would canoe the lagoons and
ponds of the interdunal swales in search of good material.

That good material includes more than 700 plant
species, more than 85 of which that are deemed rare at the
state or global scale. Among them is a plant seen nowhere
else in the world, *Thysmia americana*, which was last spotted
in 1916. The wetland ecosystems are excellent sources of
food, nesting sites, and resting points for a wide variety of
migrating birds. Today more than 200 species of birds
have been identified in the region, including 18 that are
rare at the global or state level. Birders are especially fond
of the Illinois endangered Yellow-headed Blackbird and the
Illinois and Indiana endangered Black-crowned Night
Heron.

Black-crowned Night Herons rest today in Big Marsh,
east of Lake Calumet. To see them, one cannot help but
also see the enormous Paxton landfill and Acme Steel Coke
Plant that frame the marsh. Birders are also fond of a place
just to the south called Deadstick Pond. Mystery
novelist Sara Paretsky's fictional detective VAI. Warshawski
is also fond of this place, where

A lone heron spreads its wings and rises from the
marsh. It circles briefly, then heads south, disappear-
ing in the shrouding mist. A handful of purple-
necked ducks continues to nibble at delicacies in the
fetid water...

The patch of marsh where they rest is small, about
half a square mile... The marsh has been filled in with
everything from cyanide to slag, with a lot of garbage
to give it body...

The locals call the remaining bit of swamp Dead Stick
Pond from the eponymous rotting wood which dots
it. It appears on no city maps. It is so obscure that
Chicago police officers stationed ten blocks away at
the Port of Chicago haven't heard of it. Nor have offi-
cials at the local Chicago Park District office.

...Conflicting signs tacked to the trees proclaim the
area both a clean-water project and warn trespassers
of hazardous wastes. Despite warning signs, on a
good day you can find anything from a pair of boots
to a bedstead dumped in Dead Stick Pond. (Paretsky
1995)

KEY 23: THE VIEW FROM THE BRIDGE

Warshawski is an insider. She, like movie director
Andrew Davis, who set movies like *The Fugitive* and *The
Package* in the area, attended South Chicago's Bowen High
School. For many people, however, their only experience
with the area comes from driving high above it on the
Chicago Skyway Toll Bridge that soars above the Calumet
River." A quick glance to either side is enough to convince
the traveler that this is a decidedly industrial valley, highly
dependent on waterborne commerce. Russian, Greek, and
Canadian freighters load or unload coils of steel, call at
coal docks or grain elevators, or nose cautiously through
the river meanders past wonderful trunion bascule bridges.

Some blast furnaces still operate to the south on coke
that is carried high over the river on its own suspension bridge
from the Coke plant on the West Bank. There is not a
Black-Crowned Night Heron in sight. In the far distance to
the north is the Loop.

It is worth remembering that a child born in the
brand new town of Chicago in 1833 would have been
clucked at by just 400 tongues and that only 57 years later
would have more than a million fellow citizens in a city
whose borders reached the state line. By that time dozens
of rail lines skirted the southern edge of the Lake to make
the last dash from points east into the city. Those trains
burned coal not wood, ran on steel not iron and wood, and
pulled a growing number of sturdy steel rail cars or opulent
Pullmans. New ways had been found to make the steel
and the rail cars cheaply and on a grand scale, and indus-
trialists sought places where large quantities of raw materi-
als could easily reach their plant and be stored before
processing in large factory complexes. Such quantities of
land were cheaply available further from the city center
and for a while, at least, there was the hope that the marshes
were also too far for union organizers to set up oper-
ations.

So, just as it did at the mouth of the Chicago River,
the government got to work to make the Calumet River
navigable. Structures were built 300 feet out into the lake
on either side of the river to prevent the relentless sand
from filling in the river mouth; a channel was dredged in a
soggy swale to the junction with the Grand Calumet; and
industrial activity began in earnest with the movement of
the forerunner of the South Works of U.S. Steel to the river
mouth in 1875. Others followed, like Pullman and
Hegewisch, Hammond and Inland Steel, Standard Oil and
U.S. Steel again by 1906.

One consequence was the continuous dredging and
widening of the river system. The Cal-Sag Channel was
built in 1912 to connect with the Chicago Sanitary and
Ship Canal, the Illinois Waterway, and the Mississippi
River. The Indiana Harbor Canal connected to the Grand
Calumet River, Burns Ditch connected to the Little Calumet
River. By 1965, when the O'Brien Lock and Dam was con-
structed just south of 130th Street in Chicago, the drainage
system and pattern of flow had been completely altered. It
was abetted by a network of municipal sewer feeders and
mains that sped storm water to the waterway system. The
alteration continues today with active construction of the
Deep Tunnel system underlying the Illinois portion of the
Calumet drainage system. Imagine how the speed and effi-
ciency of runoff has altered the traditional water retention
role of the remnant wetlands. (As a side note, those
remaining patches of water are occasionally catastrophical-
ly influenced by the damming up and subsequent clearing
of culverts where they are bordered by roads.)

Meanwhile, industry played a geomorphological role
as a great leveler in cutting down the heights and filling in
the lowlands. High dunes were destroyed to make way for
the Gary Works and the old mouth of the Grand Calumet
was covered up. Dune mining continued into the 1960s at Burns Harbor. On the other hand, enormous amounts of new dry land were made by the dumping of slag and other materials into Lake Michigan and into the wetlands. Now there were “natural” features with names like Irondale and Slag Valley. The category of “made land” now stands out as a “natural area” almost on the same scale as the Dune and Swale section of the region.

And some day V.1. Warshawski will take up the case of the disappearing Lake Calumet. Since the Van Vlissingen plan of 1925—and most actively in the 1950s in preparation for the opening of the St. Lawrence Seaway—the city of Chicago has moved to transform the lake into a grand sheltered harbor. A stay of execution came with the technological obsolescence of general cargo shipping on the Lakes and the shift to containerization. That same shift, I would add, still puts some wetlands in the region at risk because their very openness is still attractive to railroads needing to increase the scale of their intermodal operations.

**KEY #4: THE GREAT STEEL MAGNET**

For the better part of a century, the Calumet region seemed to have an almost irresistible pull on industry. To use Colby’s term, the region was “centripetally” attractive to industry. He quoted the classic list of site and situational virtues first laid out in Appleton’s pioneering study of the iron and steel industry. It included

1. large parcels of unoccupied land available at low prices...
2. lake front or river locations, 
3. the sandy character of the lake plain which made dredging and excavation for slips a simple engineering task, 
4. an abundance of water, 
5. marsh or lake areas for dumping of waste materials, 
6. freedom of use, in that control of the land made it practicable to perfect economies of plant layout and operation..., 
7. adequate transportation facilities..., these facilities resulting from a combination of lake transportation and belt-line contact with all railroads entering Chicago, and 
8. proximity to the Chicago reservoir of labor. 

(Colby 1933; 1959, 292)

What it all added up to, on the ground as well as from the bridge, was a kind of “technological sublime,” to use David Nye’s (1994) phrase. As Mayer and Wade (1969) put it, “huge blast furnaces and rolling mills, acres of stock-piled ore, coal, and stone, towering grain elevators, the exposed tubing of chemical and paint works, large gantry cranes hovering over wharves and ships, and mile upon mile of drab, almost sullen buildings, crowded in around the water. Fire and smoke charged into the sky as a constant reminder to the world of Chicago’s brute industrial strength. Most people were appalled by the dirt, pollution, and ugliness of the scene, but to some there was an elemental beauty to the rough shapes and raw power embodied in this steaming jungle of steel and brick and concrete.

There is a kind of peace pipe smoke of prosperity here in which the clash of interests was non-problematic. But from the Pullman Strike of 1893 to the Memorial Day Massacre at Republic Steel in 1937 to the struggles to keep the mills open, economic power was always contested, and the contests often had a very local flavor.

**KEY #5: MILLGATE ARCHIPELAGO**

From the Bush, to Millgate, Irondale, Slag Valley, Hegewisch, Pullman, Altgeld Gardens, Marktown, and Indiana Harbor, the Calumet region is dotted with industrial communities strongly shaped by physical, economic, and social attachments to nearby industries. Some of these communities, like Pullman or Marktown, show the hand of the master planner. Others testify to company or speculative housing. Whatever the case, a trip into any of these neighborhoods is a trip into working class history: national Catholic churches and parochial schools, union halls, restaurants continue to indicate a strong attachment to both local place and distant homelands.

It is not uncommon for neighborhoods such as Hegewisch or Altgeld Gardens to be completely isolated from other communities by wetlands, industries and railroad tracks. For a long time, this isolation enhanced a strong sense of local identity. But the pulse of urban change beating in greater Chicago has also affected the Calumet region. For example, the Calumet region lies astride the path of the expansion of the south side Black Belt from near Chicago’s Loop to the southern suburbs. South Chicago’s African-American population increased markedly during the 1980s and 1990s while the East Side (of Chicago) has become increasingly Hispanic. The area to the west of Lake Calumet has become primarily African-American, while the area to the east retains pockets of European-American and Mexican-American communities. The currents of race and class often serve to further isolate communities that are already fragmented geographically.

**KEY #6: RUSTY BROWNFIELDS OF DREAMS**

The trip into working class history is all too often just that, as the Calumet region has paid the price of de-industrialization since the early 1980s with a vengeance. Over 20,000 industrial jobs have been lost on the Illinois side of the border alone and some landmark industries—South Works, Wisconsin Steel, Republic Steel, Pullman-Standard, General Mills—are now closed. In the memorable phrase of David Bensman and Roberta Lynch, what are left are “rust-ed dreams.” From the landscape point of view, what are also left behind are a number of “brownfields.” This increasingly popular term refers to abandoned or unused industrial properties with unknown environmental contamination on site. Industrial developers and investors, shying away from the unknown costs of cleanup, are usually attracted to less risky suburban “greenfields” sites.

It is difficult to overestimate the extent of the brownfields problem. Hundreds of sites exist in the city of Chicago. The South Works site covers some two miles of...
prime Lake Michigan lakefront. The Wisconsin Steel site, closed in 1980, is still being cleaned up today. With backing from the U.S. Environmental Protection Agency, the city of Chicago launched a major brownfields recovery effort in 1995. This led to the creation of new state laws that limit the liability of current landowners and that provide specific guidelines as to "how clean is clean." This "tiered approach to cleanup objectives" takes specific account of the future land use of the site: if it is to be industrial in the future, objectives are a little more lenient. But future industrial uses are not guaranteed, as the former regional industrial virtues—water access, large acreages, and so forth—are not as crucial as they were in the context of increased global competition and new steelmaking technologies. Indeed, the epicenter of primary metals manufacture has been migrating eastward to the fringes of South Bend, Indiana, for some time.

**KEY #7: THE HUGGIES OROGENY**

Visitors to the Calumet region will note a range of pyramidal hills reminiscent of Teotihuacan or the Valley of 10,000 Smokes. Nighttime methane flares add to the sense of numinous mystery. But for most Calumet residents, the hills are no more mysterious than the contents of the kitchen garbage or diaper pail.

Since about 1970, American cities have favored sanitary landfills as the best way to dispose of municipal waste. The Calumet region, already seen as possessing large tracts of "waste" land, seemed prime territory for Chicago regional disposal. At present, some 21 operating or closed municipal landfills dot the region. They are accompanied by vast acreages given over to sewage treatment. Presently, the highest point of land in the city of Chicago is atop the former sludge drying beds of the Metropolitan Water Reclamation District on lands owned by the Illinois International Port District. Five years ago, responding to citizen complaints about odors and blowing particulate matter, the beds were capped by a golf course, Harborside International. Since tree roots would penetrate the clay cap, course architects employed a Scottish "links" style design that has made the course very popular in the executive golfing community. Ads for the course typically have a map with north on the left hand border, with the Loop to the left and the course to the right, so as to de-emphasize the course's southerly location.

**KEY #8: TOXIC DOUGHNUTS**

Mrs. Hazel Johnson, the founder and president of People for Community Recovery, a community-based environmental organization located at the Chicago Housing Authority's Altgeld-Murray Homes, has referred to Altgeld's regional position as being at the hole of a "toxic doughnut." To the north are the sludge-drying beds of the Metropolitan Water Reclamation District's Calumet Sewage Treatment Plant, to the east rise the twin mountains of Waste Management's CID landfills, from the west the breezes bring emissions from Acme Steel's Riverdale plant, and to the south lazies the polluted Little Calumet River. (Mrs. Johnson's doughnut actually has no hole; the very land and groundwater on which the project was built are also seriously suspect.)

There are at least a dozen doughnuts like Altgeld Gardens in the Calumet region—communities whose residents bear a disproportionate price of the region's industrial past and present in a variety of physical ailments. There is no Love Canal here, but by one count there are more than 25 past and present seriously contaminated sites; there are more than a thousand hazardous substance-producing or -using firms reporting to the Toxic Release Inventory; and there are ongoing concerns about the water, air, and soil quality.

Mrs. Johnson, and dozens of activists like her, are part of a vigorous environmental movement that is alive and well in the region that can count some important victories: Waste Management was forced to close a non-compliant hazardous waste incinerator; large polluting companies that were forced to pay millions of dollars in fines were willing to enter into Good Neighbor Dialogues that focus on pollution prevention; and the city has held the line on new landfill construction for a dozen years. But clearly, even in a landscape rife with community activists, regulators, and non-profit watchdogs, much remains to be done.

**KEY #9: THE AIRPORT THAT DIDN'T FLY**

In 1990, Mayor Richard M. Daley of Chicago stunned the region with his announcement that the city would pursue construction of a Lake Calumet International Airport, which would grow to the size and busyness of O'Hare. On June 2, 2000, the same Mayor and Governor George Ryan announced a comprehensive rehabilitation plan for the Calumet regional environment, including a comprehensive ecosystem management plan, purchase and rehabilitation of two key marshes that are home to the Black-crowned Night Heron, and construction of a showcase Environmental Center in one of them. What happened?

It is argued here that the Mayor, keying in on some of the region's landscape features, was tempted by the prospect of solving them all in one fell swoop. But what he failed to recognize were the people in the landscape (20,000 of whom would have had to be moved to make way for the airplanes). Though the region has long attracted outside study and interest, what the city's proposal did was to bring together environmental and community economic development activists in a significant coalition for the first time. In opposing the airport, they pointed out a number of things: the employment picture had stabilized by the early 1990s in the region, and in fact, a number of thriving companies opposed the airport; the human costs of bulldozing a whole neighborhood (Hegewisch) and a whole municipality (Burnham) would be too high to bear; and the expense of re-routing the Calumet River and lowering the height of a dozen landfills was prohibitive. Even if the airport were built, there was no guarantee that jet-foul-
ing birds would forget the wetlands they once called home. Looked at another way, what the activists also began to articulate was a vision of the region’s assets that did not require an airport to improve. The booming success of the Ford Motor Company Taurus/Sable Assembly plant was only one sign of the continued prosperity of some of the region’s companies.

**KEY #10: SILK PURSE NATIONAL PARK**

While the Mayor looked at the Calumet region in 1990 and saw a sow’s ear, others, spinning the oppositional momentum into a positive force, began to see a silk purse. By the count of James Landing, geography professor at the University of Illinois-Chicago, some 23 studies and plans for the region were written in the 1990s. Not the least important of these was Landing’s own proposal that the area’s unique congeries of natural and industrial history made it a candidate for National Park status. What started as a somewhat quixotic and whimsical idea gathered steam and allies as the decade wore on. By 1998, the Calumet Ecological Park Association was able to prevail on Congress to have the National Park Service conduct a feasibility study for the idea. The Park Service demurred on recommending that the area had significant natural assets, but it did suggest pursuing National Heritage Area designation. Such a designation takes advantage of new modes of public-private governance pioneered in the Illinois and Michigan Canal National Heritage Corridor, and it would provide a nationally designated link between that Corridor and the Indiana Dunes National Lakeshore.

In 1999, a Bi-State Calumet Heritage Partnership was created to advocate the formal designation of the area. Meanwhile, other coalitions such as the Wolf Lake Bi-State Alliance, the Lake Calumet Ecosystem Partnership, and the Northwest Indiana Regional Forum suggest that multi-stakeholder advocacy groups are gaining ground in the region. The Lake Calumet Ecosystem Partnership, to name one, advocates a vision of environmental restoration, economic sustainability, and community redevelopment to which an increasing number of governmental agencies, environmental organizations, economic development entities and community organizations are signing on.

In the end, no one key opens up an untarnished mirror of the region. Even within the environmental community, some favor pollution prevention programs, others habitat restoration, and others, some kind of green economic development strategy. Yet, the fact that the groups are talking to each other at all in a context that frankly acknowledges their different interests while seeking common ground, suggests that this last key to the Calumet Region may be the one that will best reflect the area, in all its watery, flighty, hammering, multicultural and contentious complexity.

**Notes**

1. For example, the city’s rich history and geography serves as an organizing and introductory device in the widely used introductory urban studies textbook by Barbara Phillips, *City Lights: Urban-Suburban America in a Globalizing Society*, 2nd ed. (New York: Oxford University Press, 1996).

2. James Landing has authored numerous concept papers for regional land use under the auspices of the Lake Calumet Study Committee and the Fort Dearborn Chapter of the National Audubon Society.

3. Especially influential have been the insights of colleagues such as Fredrick Blum, Janet Halpin, Walter McCarthy, William Peterman, and Michael Siola of Chicago State University, and of James Landing of the University of Illinois at Chicago and Craig Colten of Southwest Texas State University.


5. This is not unlike the view with which William Cronon opens his *Nature’s Metropolis: Chicago and the Great West* (New York: Norton, 1991), pp. 5–6.

6. In Harris and Ullman’s seminal “Nature of Cities” paper, the Calumet District is set up as an example of a heavy industrial district which becomes a nucleus for further development. They describe the repellent qualities of the industry found here: “the noise of boiler works, the odors of stockyards, the waste disposal problems of smelters and iron and steel mills, the fire hazards of petroleum refineries, and the space and transportation needs which interrupt streets and accessibility…” Even here, however, these are not sources of conflict per se; Chauncy D. Harris and Edward L. Ullman, “The Nature of Cities,” *Annals of the American Academy of Political and Social Science* 242 (November 1945), 7–17.

7. The city is reluctant to release a specific inventory of sites because the information might jeopardize future development of the site. One employee of the Department of Environment estimated in a personal conversation that the number was over 400, varying in size from single lots to several hundred acres.


9. These are sites listed in southeast Chicago and northwest Indiana counties on the CERCLIS list established by...

REFERENCES


Mayer, Harold M. 1957. The Port of Chicago and the St. Lawrence Seaway. Chicago: University of Chicago, Department of Geography, Research Paper no. 49.


