

Sean Connaughty, Friends of Lake Hiawatha, and MCAD

ANTHROPOCENIC MIDDEN SURVEY

LAKE HIAWATHA TRASH SURVEY 2019



INTRODUCTION

The trash items represented in this survey were collected from the Friends of Lake Hiawatha Earth Day Cleanup, which occurred on April 20, 2019. A total of 104 volunteers cleaned for 2.5 hours, working the entire circumference of Lake Hiawatha. 350 lbs. of trash were removed from Lake Hiawatha. A minimum of 18,897 trash items were sorted and cataloged in the following survey. The 350 lbs. of trash was transported to the Minneapolis College of Art and Design (MCAD), where it was sorted and audited over several weeks by dozens of volunteers. Prior to the cleanup it was decided that the top four corporations identified in the trash from Lake Hiawatha would have their logos recreated and displayed with their own trash materials at the MCAD Sculpture Garden in June of 2019. This document accompanies the exhibition.

TRASH CATEGORIES

18,897 items total

1. WRAPPERS AND PLASTIC FILM 3,743 items
2. BOTTLE CAPS 3,639 items
3. STYROFOAM 3,354 items
4. PLASTIC SHARDS 2,957 items
5. STREET SWEEPER BRISTLES 1,217
6. STRAWS 1,135 items
7. PLASTIC CUPS AND LIDS 527 Items
8. CIGARILLO TIPS 397 items
9. BALLS 282 items
10. FOAM RUBBER 236 items
11. PLASTIC BOTTLES 235
12. WRITING UTENSILS (PENS, PENCILS AND MARKERS) 234 items
13. BEAUTY PRODUCTS 109 items
14. PAPER PRODUCTS 103 items
15. CIGARETTE BUTTS 86 items
16. LIGHTERS 69 items
17. TEXTILES, CLOTHING, FOOTWEAR 64 items
18. AUTO WRECKAGE 63 items
19. TREATED/PAINTED LUMBER 43 items
20. METAL CANS 36 items
21. FISHING 39 items
22. COMBS 26 items
23. CORKS 25 items
24. GLASS 23 items
25. CHEWING TOBACCO TINS 23 items
26. METAL OBJECTS 17 items
27. PAPER CUPS 10 items
- ITEMS OF INTEREST 312 items

PARENT CORPORATION DATA

LAKE HIAWATHA Trash Survey 2019 Top Four Corporations:

1. PEPSICO
2. COCA COLA
3. MCDONALDS
4. MARS

1. PEPSICO FRITO LAY - 460 total
Wrappers and plastic film 129
Bottle caps 296
Bottles 26
Cups and Lids 1
Paper 1

Paper cup 1

Shards 5

Products: Pepsi, Mountain Dew, Gatorade, Aquafina, Doritos, Cheetohs, Ruffles, Lays, Funyons, Chester's, Munchies, Brisk Tea, Grandma's, Smartfood, Naked, Tropicana, Ocean Spray.

2. COCA COLA - 455

Wrappers 42

Bottle caps 385

Cans 5

Bottles 16

Cups and Lids 1

Paper cup 1

Styrofoam 2

Shards 1

Items of Interest 2

Products: Dasani, Coke, Powerade. Fanta, Crush, Sprite, Minute Maid, Odwalla, Smartwater, Vitamin Water.

3. MCDONALDS - 343

Wrappers 4

Straws 215

Cups and Lids 113

Paper 4

Paper cup 1

Shards 5

Items of Interest 1

Products: McDonalds

4. MARS - 250

Wrappers 250

Products: Snickers, Milky Way, M&M's, Mars, 3 Musketeers, Kit Kat, Twix, Skittles, Starburst, Twizzlers.

5. HERSHEY - 154

Wrappers 149

Bottles 1

Paper 1

Shards 3

6. SWISHER - 153

Wrappers (Swisher Sweets) 153

Plastic cigarillo tips not included in brand count

7. NESTLE - 109

Wrappers 89

Bottles 20

8. NEWEL RUBBERMAID - 83

pens 48

balls 35

9. BIC - 80

pens 45

lighters 35

10. STARBUCKS - 73

Paper 1

Straws 57

Cups and Lids 12

Paper cups 2

Items of Interest 1

11. HEAD NV (Penn) - 64

Balls (Penn Tennis) 62

Plastic lids 1

Shards 1

12. GENERAL MILLS - 54

Wrappers 54

13. DR PEPPER SNAPPLE - 53

Bottle caps 30

Bottles 3

Wrappers 14

14. PHILLIP MORRIS (ALTRIA) - 46

Wrappers 42

Chewing Tobacco Tins 4

15. TOOTSIE ROLL INDUSTRIES - 38

Wrappers 38

16. MCKEE FOODS - 35

Wrappers 35

17. KIRKLAND - 32

Wrappers 32

18. WALMART - 31

Wrappers 29

Bottles 2

19. SUPERAMERICA / SPEEDWAY PETROLEUM - 30

Styrofoam 21

Cups and Lids 8
Paper 1

20. TOKAI (SCRIPTO) - 29
Lighters 26
Pens 3

21. TURNING POINT LLC (ZIG ZAG) - 28
Wrappers 28

22. CULVERS - 25
Straws 25

23. RANIR LLC - 24
Shards (Plackers) 24

24. PERFETTI VAN MELLE - 24
Wrappers 23
Bottles 1

25. CARIBOU - 20
Cups and Lids 8
Straws 10
Paper Cups 2

26. FERRARA - 17
Wrappers 17

27. KRAFT/HEINZ (BERKSHIRE HATHAWAY) - 16
Wrappers 16

28. PROCTOR AND GAMBLE - 14
Shards (Oral B) 14

29. HOLIDAY - 13
Styrofoam 3
Wrappers 1
Cups and Lids 9

30. WELLS - 13
Wrappers 13

31. HOSTESS - 11
Wrappers 11

TRASH DATA by Category

WRAPPERS AND PLASTIC FILM

3,742 pieces

1. MARS - 250

Milky Way 20

M&M's 6

Mars 9

Kit Kat 39

Snickers 107

Twix 26

Skittles 22

Starburst 15

Twizzlers 2

2. SWISHER INTERNATIONAL - 153

Swisher Sweets large envelope 14

Swisher Sweets small sleeve 139

3. HERSHEY - 147

Payday 5

Jolly Rancher 14

York 2

Goodbar 1

Heath 5

Kisses 1

Hershey Bar 24

Reeses 71

Almond Joy 14

Laffy Taffy 6

Mounds 2

Whoppers 2

4. PEPSICO FRITO LAY - 130

Aquafina 33

Dorito's 12

Cheetohs 18

Ruffles 2

Lay's 11

Funyons 3

Chester's 10

Munchies peanuts 4

Brisk Tea 3

Pepsi 3

Mountain Dew 6

Cheez-it 1

Grandma's 1
Smartfood 1
Naked 1
Tropicana 1
Ocean Spray 1
Quaker Oats 7
Gatorade 12

5. NESTLE - 89
Pure Life 42
Ice Mountain 1
Nestle Crunch 8
100 Grand 6
Laffy Taffy 3
Baby Ruth 4
Butterfinger 22
Nestle 4
Perrier 1
Flipz 1

6. GENERAL MILLS - 54
Annie's 5
Fruit Roll ups 12
Gushers 6
Combos 1
Nature Valley 28
Fiber One 1

7. TOOTSIE ROLL INDUSTRIES - 38
Tootsie Roll 1
Charms Blow Pop 31
Caramel Apple Pop 4
Tootsie Pop 2

8. MCKEE FOODS - 35
Little Debbie's 27
Sunbelt Bakery 8

9. COCA COLA - 34
Fanta 2
Vitamin Water 2
Crush 1
Sprite 1
Coca Cola 13
Minute Maid 1
Dasani 8
Powerade 6

10. KIRKLAND - 32

Fruity snacks 4
Soft and Chewy 8
Kirkland Water 20

11. WALMART - 30
Great Value Water 27
Chewy Chocolate Chunk 2
Lowfat Grain Bar 1

12. BLACK AND MILD Phillip Morris Altria - 29
Black and Mild small sleeve 29

13. ZIG ZAG - 28
Blunt Wrap 18
Zig Zag 10

15. PERFETTI VAN MELLE - 23
Airheads 23

16. FERRARA - 17
Lemonheads 1
Now and Later 2
Trolli 5
Black Forest 6
Kinder Joy 3

17. KELLOGG - 15
Cheez it 5
Keebler 2
Nutri Grain1
Pop Tart 2
Kellog 4
Zesta 1

18. NIAGARA - 13
Niagara water 13

19. HEINZ - 13
Heinz packets 13

20. HOSTESS - 11

Wrappers lesser brands and unidentifiable 803
Clear plastic and cellophane 1,492 (incl. Ziploc bags 81)
TOTAL 3,742

BOTTLE CAPS

3,639 pieces

RC - Royal Crown 2
Nerf 2
Bud Light 1
Miller 2
Wis Pac 2
Naked (Pepsi) 9
Bai Antioxidant infused 1
Jarritos 3
OKF 2
Tropicana (Pepsi) 1
Fruiti 2
Faygo 3
Penn (Head NV)1
Odwalla (Coca Cola) 3
Evian (Danone) 3
Health Ade Kombucha 1
Assorted brands 22
Smartwater (Coca Cola) 18
Minute Maid (Coca Cola) 22
Coors 1
Powerade (Coca Cola) 52
Dr. Pepper 30
Gatorade (Pepsi) 95
Pepsi 191
Coca Cola 241
Unidentified Random Soda 306

WATER BOTTLE STYLE

Chippewa 17
Dasani (Coca Cola) 50
Clear 673
White 90
Green 70
Blue 135
Black 19

OTHER

Jug Tops 84
Unidentified large size caps 189
Clear nozzle caps 113
Bottle Rings 376
Random caps 571
Toxic or Medical 71

STYROFOAM

3,354 pieces

(see data sheet for comprehensive list)

Unidentified Cups 411

Cups with logos 44

Packing peanuts 72

Supermoms cups 16 (Speedway/SuperAmerica)

Super America cup 5 (Speedway/SuperAmerica)

Coca Cola 2

Holiday 3

Solo 1

PLASTIC SHARDS

2,957 pieces

(see data sheet for comprehensive list)

McDonalds 5

Pepsi 5

Taco Bell 1

Hershey (Ice Breakers) 3

Coca Cola 1

Head NV (Penn) 1

Proctor and Gamble Flossers (Oral B) 14

Ranir LLC (Plackers) 24

Strapping bands 49

Plastic Hangers 23

Plastic Utensils 61

Pieces with identifiable brands or type object 265

Unidentifiable shards 2,692

STREET SWEEPER BRISTLES

1,217 pieces

STRAWS

1,135 pieces

McDonalds 215

Starbucks 57

Caribou 10

Culvers 25 pieces

Blue 25

Light Blue 10

Green 57

Red 89

Yellow swizzle 32

White with Red and Yellow Stripe 215
White with red Stripe 180
Clear 387
Miscellaneous 387

PLASTIC CUPS AND LIDS

527 pieces

McDonalds 113
Berry Plastics 16
Dart 14
Starbucks 12
Holiday 9
SuperAmerica 8
Caribou 8
Taco Bell 7
Wendy's 5
Yoplait 5
Burger King 3
Solo 2
Coca Cola 1
Mountain Dew (Pepsi) 1
Dole 1
FK Greenware (compostable) 2
Little Caesars 2
unidentified coffee cup lids 5
unidentified plastic drink lids 30
unidentified cups 170
Unidentified containers 9
Unidentified large lids 25

CIGARILLO TIPS

397 pieces

BALLS

282 pieces

Tennis balls = 165
62 Penn (Head NV)
35 Wilson (Newell Rubbermaid)
7 Chuckit!
1 Gamma
1 Dunlop
1 Prince
1 Lifetime
2 Michael Lynn's Tennis Shop
1 Slazenger Championship

54 Unidentified

Soccer = 2

1 Franklin

1 Unidentified

Baseball = 3

1 Franklin

2 Unidentified

1 Kong

1 Aastrom Plastic

62 Unidentified - other

7 Wiffle Balls

5 Plastic golf balls

Golf balls = 36

8 Titleist

2 Srixon

7 Topflight

6 Callaway

2 ProStaff

2 Pinnacle

1 Tommy Amore

1 Wilson Staff

1 Noodle

1 RAM

1 Taylor Made

1 Bridgestone Golf

1 Cougar

2 Unidentified

FOAM RUBBER

236 pieces

76 nerf darts

16 balloons

5 toe separators

5 ear plugs

19 white

8 blue

3 yellow

10 pink, red, purple

7 gray

13 green

4 brown

70 black

PLASTIC BOTTLES

235 pieces

Coca-Cola

3 coke

7 dasani

2 Odwalla juices

4 Powerade

Nestle

17 Nestle Pure Life

3 ice mountain

Pepsi Co

7 Pepsi

13 Aquafina

5 Gatorade

1 Mountain Dew

1 AW root beer

2 Dr Pepper

1 Kemp's

1 Great Value water

1 Member's mark purified water

1 Fuji water

1 market pantry purified water

1 core organic

2 koolaid

2 Lucas Gusano

2 Danimals smoothies

7 five-hour energy (innovations ventures LLC)

1 ee eternal energy

1 sniper energy shooter

1 sunnyD (harvest hill)

1 mondo

1 fruit barrel (abc)

1 deep eddy vodka (Kentucky liquor company)

1 Svedka vodka (constellation brands)

3 Smirnoff vodka (Diageo)

3 uv vodkas (Phillips distilling)

1 Prairie vodka (Phillips distilling)

7 new Amsterdam vodkas

1 Burnett vodka (Heaven hill)

1 e & J brandy

1 rum Chata

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- 2 Bacardi
 - 1 cinerator whiskey
 - 1 makers mark whiskey (suntory Holdings, vlted)
 - 1 captain Morgan loco nut rum \
 - 7 fireball whiskey (sazerac company)
 - 2 clear eyes (Prestige brands)
 - 1 rhoto cool drops
 - 1 ice breakers liquid ice (Hershey's)
 - 1 mentos gum (perfetti van melle)
 - 1 juicy drop (Topps co)
 - 1 complete nutritional shake

WRITING UTENSILS (PENS, PENCILS AND MARKERS)

234 Pieces

- Bic (Bic) 45
- Papermate (Newell) 31
- Sharpie (Newell) 17
- Crayola 4
- Scripto 3
- Others

BEAUTY PRODUCTS

109 items

- Lipgloss/Chapsticks = 63
- 3 Carma Laboratories
- 4 Carmex
- 1 the Wedge
- 2 Badger Lip Balm
- 3 Blistex
- 1 Chap Ice
- 1 Natural Ice
- 1 Chap Blok
- 1 Chap Aid
- 7 Chap Stick
- 1 Bobby Brown
- 2 Lipsmacker (owned by Bonnie Bell)
- 1 Bonnie Bell
- 1 Loreal
- 2 Bath & Body Works
- 1 Softlips
- 2 Vaseline
- 2 Burt's Bees
- 3 EOS
- 2 Victoria's Secret
- 1 Kandy Castle
- 1 Mabelline

1 Just Colour
1 Rimmel
1 Hill's (Konick & Company)
1 Edina Orthodontics
16 unknown

Mascara = 3
1 Color mates
1 LA Colors
1 unknown

Eye Drops = 27
1 Systane
2 Visine
1 Clear Eyes
1 Walgreens
22 unidentified

Contact Lenses = 3
1 Fresh Look
2 Dailies

Lotions/lubricants = 4
1 Gold Bond lotion
1 Tea Tree lotion
1 Lab Sciences moisture gel
1 Wet Platinum silicone lubricant

Toothpaste = 2
1 Colgate
1 Schmidt's

Other = 7
1 Oral B floss
1 Mack's Ear Wax
1 Sunmark Antibiotic ointment
1 Orajel
1 Young living oil spray
1 bandaids - Johnson & Johnson
1 Zican cold sore

PAPER PRODUCTS

103 pieces

1 Burger King bag
1 Burger King receipt
1 Burger King paper cup

2 McDonald's bags + contents
1 McDonald's receipt
1 McDonald's wrapper
1 Icee container
1 Culver's bag + contents
1 Valley's Own vanilla cupcake container
1 Maximum strength Ranitidine tablet container
1 Starbuck's napkin
1 Reese's peanut butter cup black paper wrapper
1 Super Mom's spicy chicken paper wrapper
1 Chipotle cup
1 Schroeder milk container
1 Pepsi Cola cup
1 Simply Nature drink
1 Juicy Juice container
1 Trident gum paper container
1 Hiawatha Golf Course scorecard
1 Band-aid container, Johnson & Johnson
1 Black Cat fireworks label
1 coffee cup cardboard holder
1 Daisy Fuentes tag
1 bar code
2 dryer sheets
1 Mister gas receipt
1 paper bag unidentified
1 pink office request for student
1 3M post-it pad
1 sustainable Forestry initiative paper cup
1 Scherer window and door construction ad
2 wrappers unidentified
1 piece cardboard
1 food cardboard container unidentified
5 pieces newsprint unidentified
1 snow cone container unidentified
1 takeout chinese food container
2 clothes lint remover sheets
7 unidentifiable pieces of scrap paper
49 unidentified paper towel or paper scraps

CIGARETTE BUTTS

86 pieces

LIGHTERS

69 pieces

Bic 35
Scripto 26
Others

TEXTILES

64 pieces

23 footwear
5 hats
9 socks
4 gloves/mittens
18 cloth scraps
5 ropes

AUTO WRECKAGE

63 pieces

TREATED/PAINTED LUMBER

48 pieces

SPRAY CANS AND AIR FRESHENERS

43 pieces

3 cans of OFF Bug Spray
5 cans of spray paint
1 Can of Fuel Defense carburetor and choke cleaner
6 AA Duracell batteries
1 Grabber Pak
4 unidentified bottles of adhesive
16 air fresheners (incl. 12 Fabreze)
1 Yak Trax
1 Petroleum jelly
2 medical swabs

FISHING

39 pieces

35 Fishing bobbers (2 Thill brand)
2 Fishing hooks
1 Fishing line

COMBS

26 pieces

CORKS

25 pieces

METAL CANS

36 pieces

1 Grain Belt
1 Stella Artois
1 Hamm's
2 Past Blue Ribbon
1 Budweiser
2 Coors
3 Red Bull
3 Michelob
2 Milwaukee's Best Premium
1 Third Street
1 Odell's
1 Fanta
1 A&W
6 Dr. Pepper
2 Coke
2 Sprite
1 Mountain Dew
2 Arnie Palmer
1 Tea (Green Tea Peach Mango)
1 Amway Energy Drink
1 del Monte tin can

GLASS

23 pieces

Bottles (intact) = 16
2 Mickey's fine malt liquor
1 Victoria beer (Mexican)
1 E&J Brandy
1 Hennessy cognac
11 unidentified
6 shards
1 small glass orb

CHEWING TOBACCO TINS

23 pieces

Grizzly 5
Skoal 2
Copenhagen 2

METAL OBJECTS

17 pieces

6 pieces of aluminum foil
3 bottle caps - Corona, Sierra Nevada, unidentified
3 power line flags - 1 CenterPoint energy, 2 pink unidentified
2 arrow shafts
1 salt shaker
1 pegboard hook
1 piece of wire

PAPER CUPS

10 pieces

1 McDonalds
1 Coca Cola
1 Pepsi
2 Caribou
1 Chipotle
2 Starbucks
1 DMF Nightcrawlers
1 World Centric (Compostable)

ITEMS OF INTEREST

307 pieces

9 Bubble Wands
19 Barettes
2 Frog Thumb Toys
4 Plastic Hands
1 Spider Ring
5 Humanoid Figurines
11 Bicycle Reflectors
3 Foam Letters (K-A-V)
2 Gun Powder Cap Gun rounds
13 Animal Reproductions
17 Lawn Chemical Sign Holders
1 Tiny Pink Microphone
8 Pacifiers
3 Googly Eyes
3 Connector Toys
1 Plastic French Fry
7 Eyeglasses
4 Sealing bands (2 Coca Cola)
1 Roll of Film
1 Message in a Perrier Bottle (Nestle)

1 Schlicter's Nursery tag
1 TangleTown Gardens garden stake
5 Keychain Holders (1 McDonalds)
1 Starbucks stirrer
3 Ribbons
1 Gametroller
2 Easter Eggs and 1 Plastic Golf Ball eaten by wildlife
3 Security tabs
3 Styrofoam gourds
1 Fiskars Scissors
3 Foam toe separators
1 Angela Conley Sticker
1 Birth Control Pill Dispenser
1 tiny red hat
1 Spaceship
4 fuses
5 Sealed Vials
5 Toothbrushes
1 Hiawatha Golf Card
1 Skull and Crossbones 'grill'
1 Auto Accident Kit with camera and flashlight
1 Jai Hanuman Sindoor "For Hindu religious ritual only"
2 plastic toy shovels
200 other items

18,897 items collected in 2.5 hours. Can you believe it? We counted all of that! One tiny section of the world's litter. Most of the identities from products have either degraded beyond recognition, or are not traceable to a corporation by design. However, many products still bear the identity of the corporation that produced them. We have noted each item's corporate identity when visible. We have noted the number of times each corporate identity occurred. Finally we have compiled a list of the top corporate identities found in the trash from Lake Hiawatha. As planned from the outset, the top four corporations have won the distinction of being represented in these sculptures.

LAKE HIAWATHA - SITE CONTEXT:

Lake Hiawatha was known prior to 1929 as Rice Lake. This area, including Lake Hiawatha and the Chain of Lakes as well as the nearby confluence of the Mississippi and Minnesota Rivers (Bdote), is the home of and remains the spiritual center for the Dakota peoples. After the US Dakota War they were forcibly removed from this land and 1,658 Dakota women and children and were placed in a concentration camp at nearby Fort Snelling where they faced starvation and death. 302 Dakota men were slated for execution by the US government. 38 men were ultimately hanged at Mankato, MN in 1862 in the largest mass execution in American History. Additionally 2 Dakota Men were executed at Fort Snelling. (Šákpe and Wakhánj Ožánžan) The surviving Dakota people were removed to reservations in North Dakota, South Dakota, Nebraska, Montana, Manitoba and Saskatchewan.

In 1929 the Minneapolis Park and Recreation Board purchased the land and the name Rice Lake was changed to Lake Hiawatha. Minnehaha Creek was straightened on the property, the Lake was dredged, and the spoils of the dredging were placed upon the adjoining wetland complex. Hiawatha Golf Course was created on the western side of the Lake on this former wetland. The shore of Lake Hiawatha was reconfigured and a stone and concrete wall was constructed along the shoreline. Some of this work was done by the WPA. In 1935 the north pipe or 43rd street pipe was constructed by the City of Minneapolis, redirecting stormwater runoff from 920 acres of South Minneapolis and emptying it directly into Lake Hiawatha without filtration. The portion of the north pipe south of 43rd street has remained unchanged since its construction in 1935.

Lake Hiawatha is one of the Chain of Lakes of Minneapolis, it is the only Lake in the chain which is directly connected to Minnehaha Creek. Lake Hiawatha is part of the Minnehaha Creek Watershed District. Minnehaha Creek originates at Lake Minnetonka 25 miles to the west. The Creek passes through Lake Hiawatha and then proceeds to the Mississippi River where the water runs all the way to the Gulf of Mexico. Communities downstream rely on the very same water as a source for drinking water. Lake Hiawatha is rich in biodiversity and is home to many species of wildlife including; beaver, muskrat, otter, mink, soft shelled, snapper and painted turtles, Great Horned Owl, eagle, osprey, kingfisher, Great Blue Heron and more. It is also a key migratory stop for birds of great diversity. There has recently been a notable loss of biodiversity at Lake Hiawatha, especially notable is the disappearance of frogs. Salamanders and snakes are also absent. There remains a population of American Toads. Lake Hiawatha is severely compromised by pollution including trash, sediment, chemical and nutrient pollution. The Lake is listed by the MPCA as impaired for phosphorous and bacteria and most notably is the recipient of tons of mostly plastic and styrofoam trash annually. Trash is not considered a pollutant in the state of Minnesota, which is one of the major reasons the 2015 and 2018 surveys were conducted. Because of this, no agency takes responsibility for the cleanup of trash at Lake Hiawatha. Trash in Lake Hiawatha comes from two major sources; the Creek and most notably the north pipe or 43rd street pipe which empties the litter from the streets of 920 acres of south Minneapolis, without filtration, directly into Lake Hiawatha. Consequently, trash levels in Lake Hiawatha far exceed that of the other lakes in Minneapolis.

FRIENDS OF LAKE HIAWATHA

Friends of Lake Hiawatha is a lake association comprised of community members who are dedicated to improving the quality of Lake Hiawatha through community engagement, educational outreach, and good governance through effective partnerships with other organizations and public officials. We are also dedicated to protecting the existing habitat and wildlife, restoring climate resilience and equitable access to natural spaces. We are dedicated to seeing a comprehensive mitigation system installed for the north pipe storm sewer system. We also wish to see sustainable green infrastructure and bioremediation used to address trash, sediment and pollution problems stemming from the north pipe.

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