

PARKS, RECREATION & OPEN SPACE MASTER PLAN 2010 & BEYOND

CITY OF RICHARDSON



MARK TWAIN PARK

RICHARDSON
PARKS &
RECREATION
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COTTONWOOD PARK

JULY 2010

Prepared By:

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PLANNING & DESIGN, LLC

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CITY OF RICHARDSON, TEXAS
PARKS, RECREATION & OPEN SPACE MASTER PLAN
2010 & BEYOND

Table of Contents

I. IntroductionPage 2

II. Goals & Objectives Page 6

III. Methodology Page 7

IV. Park Classification & Inventory Page 8

V. Level of Service Page 16

VI. Assessment of Needs and Conclusions Page 20

VII. Priorities / Recommendations Page 37

VIII. Implementation Schedule Page 40

IX. Existing & Available Mechanisms Page 45

X. Summary Page 47

Appendices

- I. Aerial Maps of Existing Parks**
- II. National Service Research Park & Recreation Needs Assessment Study Executive Summary**
- III. Councilman-Hunsaker Aquatic Master Plan**

I. INTRODUCTION

In April of 2009, the City of Richardson commissioned MHS Planning and Design, LLC to assist in developing a new Parks and Open Space Master Plan. This plan is a follow-up to Richardson's 1995 Parks and Open Space Master which guided additions to and renovations of the park system over the last 14 years.

The 2010 Parks and Open Space Master Plan is intended to:

- Provide the City of Richardson with an information base to help guide decisions related to parks, recreation and open space;
- Assist in the implementation of those decisions and set guidelines for future park and open space development;
- Provide feasible recommendations to the governmental body and be in accordance with the desires of Richardson's residents;
- Include all land within the City of Richardson jurisdiction;
- Provide parks and open space project recommendations through 2020;
- Provide emphasis and detailed cost projections for projects recommended for implementation.

The following pages of the Master Plan contain:

- Goals and objectives for a comprehensive city wide parks and open space network;
- The methodology used in developing the plan;
- An inventory of existing facilities which make up the park network;
- An analysis of local needs, the adopted parks, recreation and open space priorities;
- The implementation programs developed to guide the city in accomplishing the proposed projects within the plan's time frame;
- Potential funding sources that may assist with the implementation of the proposed projects.

Community Profile

In 2008, the City of Richardson, Texas, just 13 miles north of Dallas, was ranked the 18th best place to live in the United States by *Money* magazine. This ranked Richardson the 4th best place to live in Texas. In 2009, *Business Week's* annual report on the “Best Places to Raise Kids” ranked Richardson 2nd in Texas. Richardson is one of the densest high-tech areas in the nation with the Telecom Corridor where Nortel (among other companies) houses its U.S. headquarters. Richardson is also home to four DART rail stations and transit oriented development with new luxury condominium, apartment, town home and retail developments.¹

During its 50 years, the Richardson Parks and Recreation Department has provided families greater quality of life through first class programs that have become a tradition and a source of pride within the community. This is evident by greater real estate values and first class economic development proving that Richardson is not only a great host to business and industry, but a also great place to call home.²

The City of Richardson is:

- Located in north central Texas in Dallas and Collin Counties;
- Approximately 12 miles northeast of Dallas & 250 miles north of Houston;
- Neighbored by Plano, Garland, Murphy, Addison and North Dallas
- A total of 28.6 square miles;
- An average elevation of 620 feet about mean sea level;
- Accessed by Highway 75 and Interstate Loop 635.

¹ City of Richardson, Texas. Retrieved 11-09-09. <http://www.cor.net/>

² City of Richardson Parks and Recreation. Retrieved 11-09-09. <http://www.cor.net/ParksAndRecreation.aspx>

The Richardson climate and average rainfall does not pose significant barriers to outdoor activities due to the fact that the weather is generally mild and any extreme changes are short in duration.

- Temperatures range from a mean minimum in January of 34 degrees Fahrenheit to a mean maximum in July of 96 degrees Fahrenheit.
- The average first freeze is mid November and the average last freeze is mid March.
- The average rainfall is 37.05 inches per year.
- The basic soil type is black clay.

Richardson's Current Demographics

- Population estimate - 99,700
- Ethnic breakdown -
 - 83.2 % White Non-Hispanic
 - 7.0 % Hispanic
 - 4.4 % African American
 - 1.1% Asian Indian
 - 2.4 % Other
- Median household income - \$93,390

The following are key points regarding the founding, history and important aspects of the unique community of Richardson, Texas.*

- Settlers from Tennessee and Kentucky first began to arrive in Richardson in the 1840's.
- Richardson was named in honor of the railroad contractor, E.H. Richardson, who built the railroad line from Dallas to Denison after the Civil War.
- Richardson was chartered in 1873 and consisted of three businesses: a post office, a general store and a drug store.
- Residents had seen their first telephone, electric light and gravel street by 1910.
- In 1914, a red brick schoolhouse was constructed and is now the current administrative offices of the Richardson Independent School District.
- In 1924, the Red Brick Road, currently Greenville Avenue, was constructed and brought an increase in population, traffic and property values.
- In 1925, Thomas F. McKamy was elected the first mayor of Richardson.

- In 1940, the population had grown to approximately 740 residents and grew to 1,300 after World War II.
- By 1955, Richardson had been introduced to the electronic era and the Central Expressway opened making the agricultural city a thing of the past.
- In 1956, residents voted to adopt a home rule charter and the council/manager form of government which still operates today.
- In 1959, the Department of Parks & Recreation was created, celebrating 50 years of service in 2009.
- The 1960's brought an increase in park land acquisition and the construction of additional recreation facilities such as Huffhines Park, Prairie Creek Park and Cottonwood Park.
- In 1972, Richardson's population had grown to approximately 56,000 residents and the Richardson Independent School District had nearly 32,000 students enrolled.
- Nearly 40 % of the homes in Richardson were built during the 1970's.
- Both the commercial and residential developments peaked in the mid 1980's but have continued to grow steadily.
- The population increased from 74,840 in 1990 to 91,050 in 2000 according to the census.
- The 2009 population of Richardson is 99,700.

* City of Richardson, Texas <http://www.cor.net/history.aspx?id=2284>



II. GOALS AND OBJECTIVES

The following Goals and Objectives are provided to give direction for future community decisions regarding parks, recreation, and open space. These goals and objectives were established based on input from the City of Richardson residents.

Park and Recreation Goal:

To ensure the provision of a balanced park and open space system that meets the recreational needs of the citizens of Richardson and helps to create a unique community character.

Objectives:

- To provide new and different recreational opportunities for all age groups.
- To renovate, rehabilitate and upgrade existing parks in Richardson.
- To develop and provide public parks throughout the city that are in close proximity to all neighborhoods.
- To forge partnerships with public and private organizations for the development, operation and maintenance of future recreational facilities.
- To provide a trail system that connects parks, residential and commercial areas and schools.
- To have a park approximately within ½ mile of each developed residential area.

Open Space Goal:

To identify, protect and preserve quality natural open spaces for unstructured recreational activities, inherent aesthetic value and protection of valuable ecosystems.

Objectives:

- To continually research the viability of developing trail systems along creeks, flood ways, and utility easements that will link public and private recreational facilities, neighborhoods and school campuses.
- To be proactive in the acquisition and protection of unique natural open spaces throughout the Richardson.
- To limit development within natural open spaces and encourage environmentally responsible private development in order to minimize adverse effects on valuable ecosystems and to increase availability to the general public.
- To address natural open space needs when developing active recreational facilities to provide citizens with well balanced recreational experiences that include both active and passive opportunities.

III. METHODOLOGY

The planning process officially began in 2009 when the City of Richardson began to address the parks and open space opportunities throughout the city.

Several steps were taken in order to create a successful and realistic master plan.

- The initial step in evaluating the parks and open space system in Richardson was to inventory the existing parks, open space and recreational resources.
- The developed park acreage was compared to the existing population in order to establish the current level of service.
- The existing parks were evaluated against national standards published by the National Recreation and Park Association (NRPA) to allow for an objective review of the park system.
- Approximately 7,000 surveys were mailed to random households from the city water bill listing in Richardson for input on existing and future park development and 525 of the surveys were returned and tabulated. Additionally, 140 on-line surveys were tabulated.
- Focus group meetings were conducted to obtain more information from the general public, different environmental, civic and athletic groups, as well as allied agencies including RISD, UT Dallas, Richland College and Dallas County.
- Interviews were held with City staff, community leaders and elected officials.

Based on the citizen input, existing inventory, available resources and professional opinion, potential park projects were developed that included additional parks and recreational facilities for the City of Richardson. Once the master project list was developed and refined, the projects for the city were prioritized based on local demand and their perception of needs.

IV. PARK CLASSIFICATION & INVENTORY

The park classification system for all parks in the city is broken down into nine major categories. Each park category serves a unique purpose.

- Pocket and ornamental parks enhance the visual image of the community.
- Neighborhood parks serve as a family oriented gathering place for neighborhoods.
- Community parks provide a mix of active, passive and primitive recreational opportunities and lighted sports fields.
- Special use parks are devoted to one or two uses - typically sports.
- Greenbelts are natural areas usually containing a trail that ties other park types together.
- Natural areas provide a visual escape from the built environment and indoor recreation provides recreational opportunities in a controlled environment.

The park types, when combined, form a park network that covers the entire spectrum of recreation.

Pocket/Ornamental Park

A pocket or ornamental park is a small (usually less than two acres) park developed for passive recreation.

Mini-Neighborhood Parks

A mini-neighborhood park is a site of approximately one to four acres located within the city limits and serves the area with a one-quarter mile radius with both active and passive recreational opportunities.

City Neighborhood Parks

A city neighborhood park is a site of approximately five to ten acres located within the city limits and serves the area within a one-half mile radius with both active and passive recreational opportunities. Neighborhood parks provide access to different outdoor activities for residents living in close proximity.



Community Parks

A community park is a site of approximately 40 to 150 acres with a service area radius of two miles and provides both active, passive and often primitive recreation. Community parks provide a large variety of outdoor activities, opportunities for environmental education and encourage social community activities.

Special Use Parks

The Special Use Park classification covers a broad range of parks and recreation facilities that focus on one or two specific recreational uses, typically sports fields. Facility space requirements are the primary determinants of site size and location. For example, a golf course may require 150 acres, whereas a community center with parking may only require 10 or 15 acres. Special Use Parks provide areas for specific activities to allow groups with common interests to participate together.

Regional Parks

Regional parks typically are a minimum of 50 acres and serve a larger area than the community alone. The service area for regional parks is a radius of ten miles. Regional parks typically have the same type of amenities as community parks and focus on community based recreation but are much larger in size. Regional parks typically have land set aside to be preserved as unique landscapes or natural open space.

Greenbelts

Greenbelts or greenbelt parkways are linear parks that are typically developed around a natural resource such as a creek, river, utility easement or lake shore. Not only can a greenbelt system preserve valuable open space and natural habitats, it ties the park systems' components together to form a cohesive park environment. Greenbelt corridors of less than fifty (50) "useable" feet should be avoided and narrow corridor sections kept to a minimum. One-hundred foot corridor widths and wider give flexibility in design and are encouraged wherever possible.



Natural Areas

Natural areas are spaces containing ecosystems in a non-disturbed state with minimal man-made intrusions. Natural areas lend a certain aesthetic and functional diversity to a park network and urban landscape. Although the benefits of natural areas are hard to quantify, they are numerous and include preservation of wildlife habitats, opportunities for nature study and encourage environmental health in the community. When flood plains are preserved as natural areas, they offer a resource to aid in the protection from flooding. There are no national standards for natural areas within a city due to the extreme variations found in natural resources from region to region.

Indoor Recreation

Indoor Recreation Centers provide a wide variety of recreational opportunities in a controlled setting which allows citizens to enjoy year-round activities. Recreation centers may include both passive and active recreational amenities. The key to a successful recreation center is the flexibility built into the design of the center, which allows for the same facility to be used for multiple activities. This enables the center to accommodate changing interests and trends with little or no physical improvements required to the facility itself. In the past, the NRPA national standard has been one indoor recreation center per 20,000 to 30,000 population.

The following table contains the types of parks proposed for the Richardson Parks System and associated development information.

Classification	Service Area	Size	Population Served	Typical Facilities	Development Cost*
Pocket / Ornamental Park	1/4 Mile	5,000 sq.ft. to 2 acres	500-2,500	Landscaping, drinking fountains, sidewalks and benches	\$50,000 - \$80,000 per acre
Mini-Neighborhood Park	1/4 Mile	1 acre to 4 acres	500-2,500	Paved area, playground apparatus, landscaping, sidewalks, drinking fountains, lawn area, benches	\$50,000 - \$250,000 per acre
Neighborhood Park	½ Mile	5 acres to 10 acres	2,000-10,000	Playground apparatus, picnic area(s), pavilion, play courts, play fields, restroom, natural open space landscaping & parking	\$45,000 - \$80,000 per acre
Community Park	2 Miles	40 acres to 150 acres	10,000-50,000	Tennis courts, sports fields, playground apparatus, picnic area(s), pavilions, walking/jogging trails, swimming pools, open space, landscaping, recreation centers, restrooms & parking	\$35,000 - \$70,000 per acre
Special Use Park	Varies	Determined by primary use	Varies - Dependent on primary use	Concentration of one or two of the following: Baseball/softball complex, soccer fields, tennis centers, sports stadiums, golf courses, performing arts parks, amphitheaters & ornamental gardens	Varies - Dependent on primary use
Regional Park	10 Miles	50 acres minimum	Entire urban area	Sports fields, tennis courts, lakes, swimming complexes, campgrounds, hike/bike trails, golf courses, nature areas, play structures, restrooms & ample parking	\$2,000,000 & up
Greenbelts	Varies	Varies	5,000 to entire community	Landscaping, multi-purpose trails, benches, information kiosks, telephones, exercise courses & drinking fountains	\$200,000 - \$750,000 per mile
Natural Areas	Varies	Determined by resource	Entire community	Nature trails, multi-purpose trails, benches, picnic areas, wildlife viewing stations, educational components, information kiosks, interpretive signs, exercise courses & drinking fountains	Varies
Indoor Recreation Center	Varies	10,000 sq. ft. minimum	20,000 - 30,000	Walking track, fitness rooms, gymnasium, weight room, racquetball/squash courts, indoor swimming pool, meeting/convention facilities, arts and crafts rooms & day care facilities	\$3,000,000 - \$7,000,000

*Development costs are based on 2010 dollar amounts and do not include land acquisitions.



Existing Parks and Open Space

The existing parks in Richardson are classified in the Existing Parks and Open Space Inventory shown in the following table. In order to illustrate the geographic distribution and areas of the city currently served by the park system, the service area of each existing park has been shown on the Existing Parks and Open Space Map and the Existing Community Park Map. Ideally, all developed residential areas of the city should fall within the service area of a neighborhood park and a community park.

Existing Parks and Open Space Inventory

	Name	Type of Park	Developed Acres	Total Acres	Facilities
1	Berkner	Neighborhood	10	10	<ul style="list-style-type: none"> • Playground • Baseball field • Two soccer fields • Multi-purpose trail • Picnic areas • Pavilion • Restroom facility
2	Breckinridge	Regional	200	417.13	<ul style="list-style-type: none"> • Twelve soccer fields • Two softball fields • Multi-purpose trail • Playground • Gazebo • Two pavilions • Picnic areas • Three ponds • Natural open space • Restroom facility
3	Buckingham	Pocket	.25	.25	<ul style="list-style-type: none"> • Two pavilions
4	Campbell Ridge	Greenway	5.4	5.4	<ul style="list-style-type: none"> • Multi-purpose trail
5	Canyon Creek	Neighborhood	8.98	8.98	<ul style="list-style-type: none"> • Swimming pool with baby pool • Lighted baseball field • Two tennis courts • Playground • Picnic areas
6	Cottonwood	Community	25.31	25.31	<ul style="list-style-type: none"> • Swimming pool with baby pool • Two lighted tennis courts • Sand volleyball court • Multi-purpose trails • Playground • Two pavilions • Two lakes • Picnic areas • Restroom facility

	Name	Type of Park	Developed Acres	Total Acres	Facilities
7	Creek Hollow	Neighborhood	7.7	8.7	<ul style="list-style-type: none"> • One softball field • One athletic field • Playground • Pavilion • Picnic areas • Multi-use court • Horseshoe pits • One acre preserved natural open space
8	Crowley	Neighborhood	10	10	<ul style="list-style-type: none"> • Two baseball/softball fields • Multi-purpose trail • Large athletic field • Playground • Pavilion • Pond with dock • Naturalistic areas • Restroom facility
		Natural Area	15	48.53	
9	Custer	Neighborhood	7.02	7.02	<ul style="list-style-type: none"> • Baseball/softball field • Athletic field • Two lighted tennis courts • Playground • Picnic areas • Pavilion • Restroom facility
10	Duck Creek Linear	Greenway	26.26	26.26	<ul style="list-style-type: none"> • Multi-use trail(links with Owens Trail) • Plaza with playground • Picnic areas
11	Foxboro	Neighborhood	5	8.9	<ul style="list-style-type: none"> • Naturalistic areas • Playground • Multi-purpose trail (links to Spring Creek Nature Area and to Owens Trail) • Pavilion • Restroom facility
12	Galatyn Woodland Preserve	Mini - Neighborhood	3	3	<ul style="list-style-type: none"> • Boardwalk for bird-watching • Wetland ponds • Animal sculpture playground • Picnic areas • Three horseshoe pits • Multi-purpose trails - trail links Spring Creek Nature Area to the north and Galaytn Plaza to the south
		Greenway	5	5	
13	Glenville	Neighborhood	7.5	7.5	<ul style="list-style-type: none"> • Swimming pool • Sprayground • Baseball/softball field • Two athletic fields • Playground • Pavilion • Picnic areas
14	Heights	Community	33	33	<ul style="list-style-type: none"> • Recreation center • Swimming pool • Sprayground • Two lighted baseball/softball fields • Two athletic fields • Two lighted tennis courts • Playground • Multi-purpose trail • Two pavilions • Picnic areas

	Name	Type of Park	Developed Acres	Total Acres	Facilities
15	Huffhines	Community	45	54.54	<ul style="list-style-type: none"> • Recreation center • Five lighted softball fields • Five athletic fields • Tennis center- ten lighted courts • Two lakes • Multi-purpose trail • Playground • Pavilion • Picnic areas • Concession complex • Restroom facility
16	Lookout	Neighborhood	20	20	<ul style="list-style-type: none"> • Three athletic fields • Playground • Pavilion • Restroom facility • Multi-purpose trails - trail links with Owens Trail
		Greenway	5	5	
17	Mark Twain	Neighborhood	8.95	8.95	<ul style="list-style-type: none"> • Lighted baseball field • Athletic field • Two lighted tennis courts • Playground • Pavilion • Picnic areas
18	Memorial	Pocket	.84	.84	<ul style="list-style-type: none"> • Armed Forces personnel memorial
19	Mimosa	Neighborhood	9.41	9.41	<ul style="list-style-type: none"> • Lighted baseball/softball field • Athletic field • Two lighted tennis courts • Playground • Pavilion • Picnic areas • Restroom facility
20	Point North	Neighborhood	5.49	5.49	<ul style="list-style-type: none"> • Baseball/softball field • Athletic field • Playground • Pavilion • Picnic areas • Restroom facility
21	Prairie Creek	Natural Area	10	37.25	<ul style="list-style-type: none"> • Natural areas • Multi-purpose trail • Picnic areas
22	Richland	Neighborhood	7.37	7.37	<ul style="list-style-type: none"> • Baseball/softball field • Athletic field • Sand volleyball court • Two tennis courts • Multi-purpose trail • Playground • Pavilion • Picnic areas • Restroom facility
23	Ruth Young	Pocket	.3	.3	<ul style="list-style-type: none"> • Botanical/Flower garden
24	Sherrill Park Municipal Golf Course	Special Use	296	296	<ul style="list-style-type: none"> • Golf course - 36 holes • Club house

	Name	Type of Park	Developed Acres	Total Acres	Facilities
25	Spring Creek Natural Area	Natural Area	15	51	<ul style="list-style-type: none"> • Multi-purpose trail - trail links with Galatyn Woodland Preserve/Central Trail • Natural areas • Hardwood forest • Picnic areas • Restroom facility
26	Terrace	Neighborhood	10.24	10.24	<ul style="list-style-type: none"> • Swimming pool with baby pool • Two lighted baseball/softball fields • Two athletic fields • Two lighted tennis courts • Playground • Multi-purpose trail • Picnic areas • Pavilion • Restroom facility
27	Woods	Mini - Neighborhood	3	3	<ul style="list-style-type: none"> • Natural areas • Multi-purpose trail along Beck Branch Creek • Playground • Picnic areas • Pavilion
		Greenway	3.99	3.99	
28	Woodhaven Grove	Mini - Neighborhood	3.32	3.32	<ul style="list-style-type: none"> • Playground • Multi-purpose trail • Pavilion • Picnic areas
29	Woodland	Neighborhood	5.92	5.92	<ul style="list-style-type: none"> • Lighted baseball/softball field • Athletic field • Two lighted tennis courts • Playground • Multi-purpose trail • Picnic areas • Pavilion
30	Wyndsor	Neighborhood	10	10	<ul style="list-style-type: none"> • Baseball/softball field • Multi-use courts • Open sports field • Playground • Multi-purpose trail • Picnic areas • Pavilion • Restroom facility
31	Yale	Neighborhood	7.5	7.5	<ul style="list-style-type: none"> • Baseball/softball field • Athletic field • Two tennis courts • Playground • Multi-purpose trail • Picnic areas • Pavilion • Restroom facility
	Total Park Acres			1,165.1	
	Total Developed Acres		836.75		

Inventory compiled by MHS with assistance from the City of Richardson - October 2009



V. LEVEL OF SERVICE

Level of service is the term used to describe the importance or the role of a park system in a community and is expressed in acres of useable park land per 1,000 persons. For the last forty years, the targeted level of service for communities nationwide has been ten acres of park land for every 1,000 residents. Based on the specific needs of a community, levels of service ranging from five acres of developed park land per 1,000 people to 15 acres of developed park land per 1,000 people are typically targeted.

<p>Richardson's Park System 2009 Total Park Acres: 1,165.1 11.7 acres per 1,000 residents*</p> <p>Richardson's Level of Service Total developed park acres: 836.75 8.39 developed acres per 1,000 residents*</p>

*Based on 2009 Population of 99,700

Note: The total park acres & developed park acres each include the 36 Hole 296 acre Sherrill Park Municipal Golf Course

It is important to note that the level of service for parks and open space is based on useable space and, therefore, undeveloped or unusable park land should not be a factor in the level of service calculation. Although private recreational facilities and school grounds should be considered when establishing the desired level of service for a community, the actual acreage is not typically used in the level of service calculation. Richardson's Level of Service is considerably lower than the amount of total park acres per 1,000 residents mostly due to the fact that Breckinridge Park is 417.13 total acres and approximately only half of that land is developed and useable.



Existing multi-purpose trail and lake at Breckinridge Park

LEVEL OF SERVICE

Park Classification	Total Developed Park Acres	Total Park Acres	Level of Service (Total Developed Park Acres Per 1,000 Residents)
Pocket Park	1.39	1.39	.014
Mini- Neighborhood Park	9.32	9.32	.093
Neighborhood Park	141.08	145.98	1.41
Community Park	103.31	112.76	1.04
Special Use Park	296	296	2.97
Regional Park	200	417.13	2.00
Greenway	45.65	45.65	.46
Natural Area	40	136.78	.40
Total Park Acres		1,165.1	
Total Developed Acres	836.75		
Level of Service (Total Developed Park Acres Per 1,000 Residents)		11.68	8.39

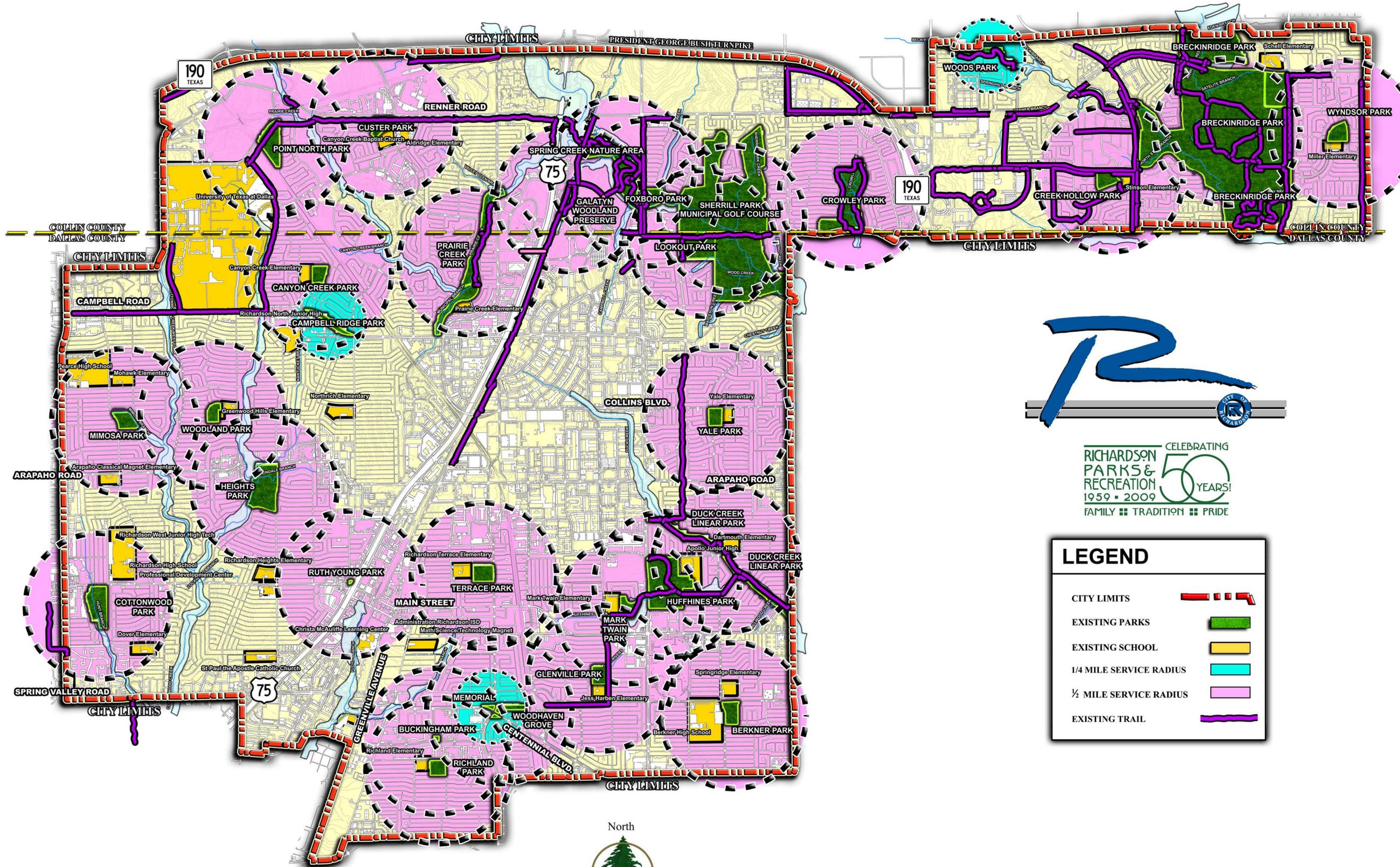
2009 Estimated Population - 99,700

2020 Estimated Population - 108,400

Level of Service based on the number of DEVELOPED park acres per 1,000 population

- 2009 Level of Service - 8.39 acres/1,000 residents
- 2009 Level of Service (excluding Sherrill Park Golf Course) - 5.42 acres/1,000 residents
- 73 additional developed acres are needed by 2020 to keep same Level of Service of 8.39 acres/1,000 residents





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LEGEND	
CITY LIMITS	
EXISTING PARKS	
EXISTING SCHOOL	
1/4 MILE SERVICE RADIUS	
1/2 MILE SERVICE RADIUS	
EXISTING TRAIL	

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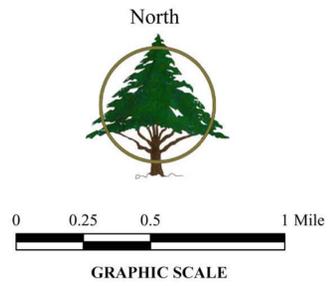
EXISTING PARKS & OPEN SPACES
 1/4 & 1/2 MILE SERVICE AREAS
 CITY OF RICHARDSON
 COLLIN & DALLAS COUNTIES, TEXAS

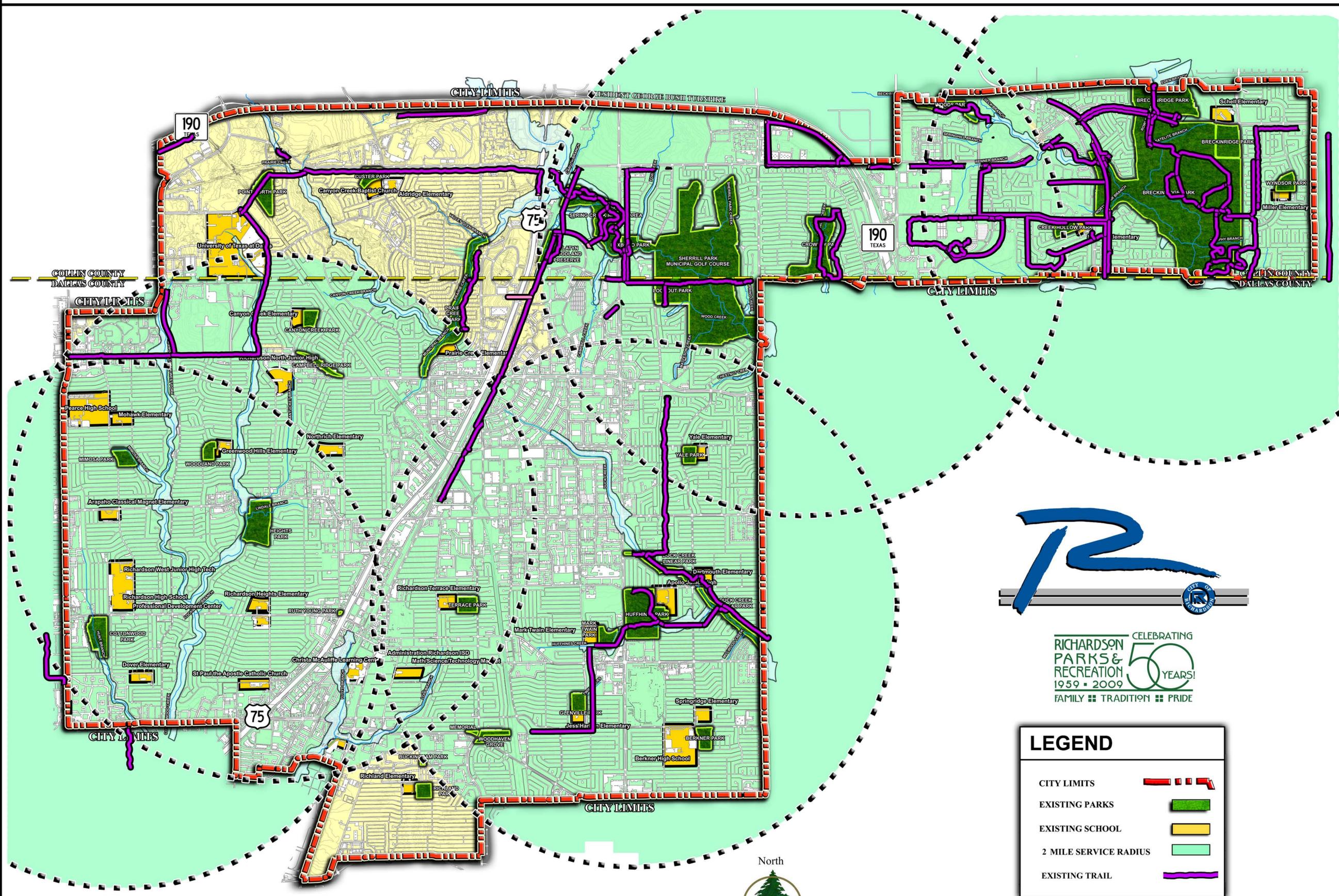
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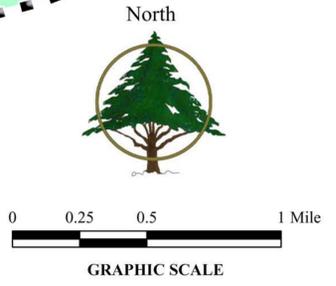
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LEGEND	
CITY LIMITS	
EXISTING PARKS	
EXISTING SCHOOL	
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EXISTING TRAIL	



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EXISTING COMMUNITY PARKS
 2 MILE SERVICE AREA
 CITY OF RICHARDSON
 COLLIN & DALLAS COUNTIES, TEXAS

DRAWN: DEL
 CHECKED: MHS
 DATE: JULY 2009
 SCALE: AS SHOWN
 JOB NO.: 00-000

VI. ASSESSMENT OF NEEDS AND CONCLUSIONS

Recreational needs are determined using the following planning approaches:

- Demand Based - what the citizens desire
- Standard Based - what the park standards call for
- Resource Based - what the local natural resources can offer
- Capacity Based - what sport facilities can accommodate

This combination allowed the desires for recreational opportunities expressed by citizens with different interests to be compared with NRPA standards and peer cities while at the same time recognizing the unique natural attributes of the area.

The Needs Assessment integrates supply and demand.

- The supply - existing park and recreation facilities and the natural resources of the area
- The demand - identified through the stated goals and objectives, the concept of level of service, national standards and most importantly, input from local citizens.

Local input was obtained through:

- Public meetings
- Focus group meetings
- Citizen survey
- Elected officials
- Parks Commission
- Professional City staff

The result is a balanced analysis which reflects the parks and recreation needs and desires of Richardson residents through 2020.

The following table depicts projected populations for the City of Richardson today and throughout the planning period.

	2009	2015	2020
Richardson	99,700	105,000	108,400

-NCTCOG Population Projections

Citizen Survey

Since Richardson is a unique community, the success of the plan hinges on obtaining a vast amount of information from the citizens themselves. To obtain this data, approximately 7,000 surveys were randomly mailed for input on existing and future park development. Additionally, the survey was posted on the City's website. Six hundred and sixty five surveys were returned and the tabulated results provided valuable local insight with regard to the existing conditions of the park system and to desired future development. Appendix II contains the complete survey results from the residents. Important information related to the local desires for parks in Richardson was obtained from the survey as follows:

Maintenance

- Respondents feel the trails and parks are well maintained with most respondents rating maintenance as good to excellent.
- Respondents feel the pools and recreation centers need some improvements.
- Very few respondents noted improvements are needed at the tennis center and senior center.

Park Facility Priorities

- It is clear citizens want additional trail connections throughout the city with nature trails, greenway corridors and open spaces/natural areas also being a priority.
- Other top priorities were (in order of priority); a new indoor pool, a dog park, botanic gardens, spray grounds, additional benches/seating areas, a new outdoor aquatic center, a senior center and a community garden.
- A new indoor pool (leisure, therapeutic, lap, sport, competition) ranked number two and an outdoor aquatic facility ranked ninth.



Aquatic Priorities

- When presented with several options as to how to provide aquatics to the citizens considering the aging five pools, their top option was to retain two or three pools and build an aquatic facility.
- Top aquatic amenities (in order of priority) were that the facility should be indoor, provide fitness/lap swimming, a flowing river and a zero depth entry.
- The number one ranked priority was that the facility should be indoor. The number five ranked priority was that the facility be outdoor.
- Other priorities were a play area with water features, a beach area, a water spray ground, a diving area, an Olympic sized 50 meter pool and a picnic area.

Respondents were asked to rate in rank order the recreation facilities most needed in Richardson. National Service Research calculated a weighted score for each facility rated. A #1 or most important received a weight of 40%, #2 most important a weight of 25%, #3 most important 20%, #4 most important 10% and #5 most important 5%. The following table shows the priority of facilities in rank order that are most needed.

Rank	Facility	Priority Score
1	Additional hike/bike/jog trails with connections	14.57
2	New indoor pool (leisure, therapeutic, lap, sport, competition)	9.60
3	Additional nature trails/greenway corridors	9.42
4	Dog park	7.48
5	Additional open space/natural areas	6.00
6	Botanic garden	5.33
7	New sprayground	4.37
8	Additional benches/seating areas	4.17
9	New outdoor aquatic center	3.64
10	Senior center	3.40
11	Community garden	3.37
12	Additional picnic shelters	2.86

Rank	Facility	Priority Score
13	New amphitheater	2.44
14	Additional recreation center	2.22
15	Additional playgrounds	1.75
16	Additional baseball fields	1.72
17	New skate park	1.68
18	Additional soccer fields	1.57
19	New disc golf course	1.54
20	Additional basketball courts	1.45
21	Additional tennis courts	1.41
22	New BMX track	0.80
23	Additional softball fields	0.61
24	Additional football fields	0.55
25	Cricket fields	0.39
26	Lacrosse fields	0.37
27	Rugby fields	0.18

Focus Groups & Public Meetings

In order to better understand the needs of the citizens, focus group meetings and public meetings were held in Richardson. The public meetings were well attended and the focus groups were very informative. Respondents commented that Richardson is a unique community in many ways. Respondents valued these characteristics in their city and would like them to be continued:

Community Perception

- A small family oriented town with good community values nestled into a large urban area
- Good schools and government with exceptional staffs
- Strong sense of community (people invest here)
- Small city character should be maintained

- More people work here than live here
- There is a need to attract young families to take the place of an aging population
- There are strong partnerships between the City and Richardson ISD, UT-Dallas, Richland College and Dallas County – these partnerships should be continued and expanded
- Richardson’s geographic location in the metroplex is a key asset
- Neighborhood parks and neighborhood pools are very important to the residents

Needs/Vision of the current park & open space system:

- Trails that connect into a true network – some soft surfaced
- Natural areas (nature interpretation/marked wildlife habitat areas)
- Dog parks
- Shade (in parks and along trails, more trees)
- Further development of Breckinridge Park
- A signature project that is the nucleus of Richardson
- A new park to serve the southwestern portion of town
- Transform underutilized land uses, i.e. old commercial centers into green spaces and parks
- More cultural programs, i.e. plays and concerts in the parks
- More park facilities specifically for teens and seniors
- Additional landscaping in some of the smaller parks to add character and beauty – move them from being functional to being inviting and fun
- Utilize native landscaping that requires less maintenance and water

Mentions of Park Needs

- Community gardens
- Disc golf courses
- Spraygrounds/sprayparks
- Indoor pool (horizontal and vertical water)
- Multi-use building
- Outdoor amphitheater
- Update indoor recreational facilities
- More benches (utilize natural sitting elements like rocks, tree trunks)



- Skate park
- Mountain bike trails
- Indoor gym
- Baseball fields and amenities
- Lighted playing fields for practice and games

New Parks - Needs

Based on the citizen survey, input from the focus groups and professional opinion, it is apparent that the City of Richardson needs to acquire additional parkland in underserved portions of the city. Each park within the park network has a service radius to identify how far people will walk from the surrounding area. It is known that people are most often willing to walk ½ mile to any given park. After reviewing the Existing Parks and Open Space Map, it is obvious that there is a need for additional park land in the southwestern and central portions of Richardson (see map on page 18).

The extreme southwestern corner of Richardson is void of a park to serve the neighborhood. There is a need for a neighborhood park or mini-neighborhood park to serve this portion of the population.

Conversations with community leaders and focus group participants revealed a need for a community park in the central portion of town that could serve as the hub of the city and provide a community wide gathering place. There is a need for the central park to contain but not limited to the following: trails, an abundance of green space and trees, possibly a dog park, gardens, area for open air concerts, lawn areas for general play, shelters/pavilions of differing sizes, fountains, and public art. The recommended size for the central park is 40 acres.

The third need for a new park is within the employment center on the east side of Highway 75 known as the Telecom Corridor. Each day approximately 100,000 people converge on this highly concentrated area to go to work. Historically, office and commercial areas have not been

viewed as needing parks and open spaces to serve the densely developed land use. Today, however, workers and employers alike, are placing a new emphasis on the quality of their work environment. Green spaces and the availability of recreation opportunities in close proximity to employment centers can increase productivity, improve fitness and reduce obesity. The current need in the Telecom Corridor is for a park of approximately five acres.

There is also a need for public open space in the Transit Oriented Development (TOD) areas of the city. These districts are located at each of the four DART light rail stations with a radius of one quarter of a mile each. There is a need to plan and develop each TOD utilizing best practices which incorporate parks, public open space and trails along with the mixed land uses of the development to achieve a vibrant village environment.

Existing Parks - Needs

As previously stated, the current level of service in Richardson is 8.4 acres per 1,000 residents. The city owns 1,165 acres of park land, including the golf course, and 837 acres are developed.

Neighborhood Parks: Many of the City's thirty parks were originally constructed in the late 1950's and 1960's. The trend at the time was to construct parks with the same amenities for consistency throughout the system. As a result, nine of the thirty parks have the same exact menu of facilities - two tennis courts, one baseball field, playground and the same picnic shelter. Although each park has been updated over the years, they each contain the same key facilities. There is a need to assess each of the following parks - Berkner, Canyon Creek, Custer, Glenville Mark Twain, Mimosa, Richland, Terrace, Woodland and Yale - to determine how effectively they are meeting the recreational needs of their intended service area. Once the neighborhood need is defined, plans should be prepared for the renovations of these parks in a form that is more reflective of the neighborhood that they serve. The result will be updated, unique neighborhood parks that more accurately meet the needs of the citizens. The parks will be visually appealing and reflective of the neighborhood, similar to the unique identity associated with the successful neighborhood vitality program.



Breckinridge Park: There is a need to continue the park development at Breckinridge Park in accordance with the adopted master plan for the park.

Prairie Creek Park: There is a need to continue the park development at Prairie Creek Park in accordance with the adopted master plan for the park.

Heights Park: There is a need to continue the park development at Heights Park in accordance with the adopted master plan for the park.

General: The survey and focus group meetings expressed a need for enhanced landscaping(botanical/flower gardens) and updated site furniture(benches, picnic tables, trash receptacles) at existing parks. Many citizens feel there is a need for additional multi-purpose concrete trails in parks for safe locations to exercise. Every park playground needs to be reviewed for compliance with the current safety guidelines established by the Consumer Product Safety Commission (CPSC) and ASTM Standards. Also, all existing park facilities should meet the accessibility standards established under the Americans with Disabilities Act (ADA).

Athletic Facilities - Needs

Since athletic organizations have different recreational needs than the general public, a carrying capacity analysis was used to determine the true needs of the different sports associations. The carrying capacity is the number of games one athletic field can accommodate each week. In addition to the carrying capacity analysis, focus group meetings were specifically held with different sports organizations. These meetings gave insight into how sports organizations are managed in Richardson and what the different organizations needed to better provide recreational opportunities for the growing population.

Youth Baseball/Softball - Youth baseball is currently provided by two different organizations - Spring Valley Athletic Association (SVAA) and the YMCA. SVAA uses City of Richardson



fields at Heights Park, Terrace Park, Canyon Creek Park, Woodlands Park and Mimosa Park. Additionally, they will have access to the four new baseball fields currently under construction at Breckinridge Park.

The YMCA plays most of their games at the YMCA field and occasionally the field in Berkner Park.

In both leagues, kids typically play two games per week from March to July. SVAA also has a fall baseball league, but fewer players participate. For the capacity analysis, spring participation numbers are used.

Baseball and youth softball games are played in the evenings on Monday, Tuesday, Wednesday and Thursday as well as on Saturdays. If three games are played each night on each field and four games are played on each field on Saturdays - each field has a weekly capacity of 16 games. Since each game involves two teams and each team plays two games per week, each field can accommodate 16 teams per week. To add flexibility in scheduling, to allow for rain outs and to reduce stress on the fields, the recommended standard of one game field for each 14 teams is recommended.

The following table explains the carrying capacity of the youth baseball/softball fields based on the number of teams and the estimated growth of 1% per year.

Baseball/Softball

Number of Teams 2009	Number of Existing Game Fields 2009*	Number of Required Game Fields** 2009	Number of Teams 2020***	Number of Required Game Fields 2020
192	20	14	212	15

* Game fields - Mimosa (1), Mark Twain (1), Woodlands (1), Canyon Creek (1), Terrace (1), Heights (1), Breckinridge (4), YMCA (1), school fields (9)

** Based on one field for each 14 teams.

***Based on growth at 1% per year



Based on the carrying capacity, there are sufficient youth baseball/softball fields to accommodate the sports throughout the planning period. If SVAA were not able to use the school baseball fields, there would be a current deficit of three fields and a deficit of four fields by 2020.

Adult Softball - The City of Richardson runs the adult softball program. The league has been suspended for the last year while the five new softball fields at Huffhines Park were being constructed. It is anticipated that once the construction of the fields is completed, approximately 110 teams will participate. If three games are played on each field four nights a week, the new fields can accommodate a total of 120 teams per week. If three games are played on each field five nights per week, the capacity increases to 150 teams. Therefore, at the carrying capacity of one game field for each 30 teams, the existing fields at Huffhines Park will accommodate the demand for adult softball through 2020.

Football - There is a need to establish a youth football program in Richardson. In order to start a football program, there is a need for a regulation size football field. Spring Valley Athletic Association has expressed a desire to offer youth football in Richardson if facilities are made available. Currently there is not a dedicated football field within the park system.

Soccer - Three separate organizations offer soccer in Richardson. Richardson Soccer Association (RSA) and YMCA each provide youth soccer programs. The North Texas Premier Soccer Association offers adult mens soccer.

As a general rule, youth soccer plays their games on Saturday and adult soccer plays on Sunday. The YMCA currently fields 64 teams with 616 players and the RSA fields 152 teams with approximately 1,500 players. There are between 25 and 30 adult teams that play each season in the mens adult league. In total, almost 3,320 soccer players are involved in the three leagues that use Richardson's soccer fields.

Breckinridge Park is used for RSA. There are currently 12 game fields being utilized. The YMCA league uses three fields at Berkner Park, three fields at Heights Park and three fields on the YMCA grounds. Additionally, RSA plays games in the baseball outfields at Terrace Park,

Canyon Creek Park, Woodlands Park, Mimosa Park and Huffhines Park. One field at Point North Park is also used. In summary, 27 fields are currently utilized for youth soccer. Adult soccer plays on Sundays on the two fields at Lookout Park and four fields at Breckinridge Park.

Due to the popularity of soccer, it is conservatively estimated that youth soccer will grow at an annual rate of 3% per year.

Based on the carrying capacity of one game field for each 12 teams (6 games per field per Saturday) the following tables show the need for soccer is currently being met.

RSA Soccer

Age Groups	Field Size	Number of Teams 2009	Number of Existing Game Fields 2009	Number of Required Game Fields 2009*	Number of Teams 2020**	Number of Required Game Fields 2020**
U-5 & U-6	60' x 90'	45	5	4	60	5
U-7 & U-8	90' x 150'	45	5	4	60	5
U-9 & U-10	120' x 150'	33	4	3	44	4
U-11 - U-14	180' x 300'	23	2	2	31	3
U-15 - U-19	210' x 360'	6	1	1	8	1
Total		152	17	14	203	18

* Based on one field per twelve teams.

** Team growth from 2010-2020 is projected at 3.0% per year.

YMCA Soccer

Age Groups	Field Size	Number of Teams 2009	Number of Existing Game Fields 2009	Number of Required Game Fields 2009*	Number of Teams 2020**	Number of Required Game Fields 2020**
Pre-K	45' x 60'	9	1	1	12	1
K	75' x 90'	18	3	2	24	2
1st	90' x 150'	9	1	1	12	1
2 nd & 3 rd	120' x 180'	20	3	2	27	3
4 th & 5 th	150' x 240'	8	1	1	11	1
Total		64	9	7	86	8

* Based on one field per twelve teams.

** Team growth from 2010-2020 is projected on 3.0% per year.

Adult Soccer

	Field Size	Number of Teams 2009	Number of Existing Game Fields 2009*	Number of Required Game Fields 2009*	Number of Teams 2020**	Number of Required Game Fields 2020**
Total	210' x 360'	30	6	3	40	4

* Based on one field per twelve teams.

** Team growth from 2010-2020 is projected on 3.0% per year.

Although the capacity analysis shows that the current and future needs for recreational soccer are being met and will be met throughout the 10 year planning period there are other factors that should be considered.

- Fourteen of the 24 fields in the City's inventory (Breckinridge & Lookout) are constructed over closed land fills. Since closed landfills have protective clay caps placed over them to seal in the waste, penetrating the cap is not allowed which prevents the possibility of installing light poles and significant in-ground automatic irrigation systems. Additionally, the decomposing trash below causes a constant shifting of the soils which requires yearly leveling of the fields. Funding for soil to level these fields must be continued in order to maintain current level of service.
- Five of the remaining 10 fields are located in the outfields of baseball fields in neighborhood parks and are the only lighted soccer fields in the system.
- The quality of the fields in general in relation to facilities in neighboring communities are not conducive to hosting significant soccer tournaments or events.

Based on the entire body of input on soccer and the popularity of the sport, there is need for between six and eight lighted tournament quality soccer fields in Richardson.

Minor Field Sports - There is a need for a cricket pitch and a lacrosse field in Richardson. Although the needs for these sports are hard to quantify, there is an expressed need for cricket currently and lacrosse is anticipated to be a growth sport in the North Dallas area.

Adult & Youth Basketball and Volleyball - There is a need for at least three gyms for adult and youth basketball and volleyball. This need is based on pent-up demand and projected growth for these organized sports.

Aquatics - Needs

Aquatics and more specifically swimming pools have been a very important recreational offering in Richardson for the last 50 years. The five city pools - Terrace, Arapaho, Cottonwood, Canyon Creek and Glenville are all between 40 and 50 years old. The city has done an excellent job of updating and maintaining each of these pools. Since the average life span for a pool is between 30 and 40 years, there is a need to address future aquatics in the park system.

Aquatic facilities ranked very high in the citizen survey and focus group meetings. Three of the top ten most desired recreational facilities related to aquatics - indoor pool, sprayground and outdoor aquatic center. Even with the five existing pools, the northeastern portion of the city is currently unserved by a public pool. Based on the age of the existing pools, desires of the citizens and existing unserved areas, there is a need to upgrade the aquatic offerings in Richardson.

See the Aquatics Plan in Appendix III for an explanation of needs in the area of aquatics.

Trails - Needs

The needs for additional trails in Richardson is evident. Additional hike/bike/jog trails with connections to existing trails and destination locations within the City ranked as the number one need in the citizen's survey. The weighted score for trails was, in fact, 50% higher than the second ranked facility - indoor pool. Trails ranked high with all age groups including senior citizens and those in the under 45 age group, according to the survey results.

During Richardson's developing years, the sixties and seventies, the focus of urban planning was on the automobile and not on trails or trail corridors. As a result, retrofitting the city with trails to meet the needs of today's population is a difficult task. Over the past 15 years, the city has constructed approximately 24 miles of multi-use trails. There are needs to continue defining and constructing meaningful trail routes that connect neighborhoods, schools, employment centers, mass transit stations and commercial centers with trails. There is also a need to improve the aesthetics and functionality of the trail system. Landscaping, trees for shade, signage, benches, kiosks and similar amenities need to be added to existing trails to improve the overall trail experience.

Natural Open Space - Needs

There is a need to preserve natural open space around the area and make these areas available for primitive recreational use, but this will be hard to satisfy. Natural areas containing mature vegetation and water features are obviously important to the residents of Richardson and need to be preserved. Additional open space and natural areas ranked as the number four priority in the citizen survey out of the twenty-seven options given. Every focus group meeting held included citizens that felt the need for preserving natural open space and nature areas were necessary. Future recreational and private development should preserve the most valuable environmental assets, such as wood lots, natural open space and riparian areas.

Urban Beautification and Identification - There is a need to enhance landscaping and aesthetic treatments within the City to improve beautification of transportation and public corridors. There is also a need to add identification signage and portal treatments to distinguish Richardson from other communities.

Indoor Recreation - Needs

There is a need to improve the indoor recreation opportunities in Richardson. The indoor recreation plan for the city outlined three key steps to improving indoor recreation offerings.

The first step was to construct a new recreation center at Huffhines Park. This project was completed in November 2009. The second step is to replace the aging recreation center at Heights Park. The third step is to construct a recreation center at Breckinridge Park.

There is a need to continue to follow the steps outlined in the indoor recreation plan to better serve the citizens.

There is also a need to investigate the viability of a significant indoor athletic facility to serve the growing need for gym space to accommodate court sports including basketball and volleyball.

Senior Citizens - Needs

Senior citizens have specific recreational needs. The citizen survey identified needs of those over sixty five years of age. According to the survey results, seniors need more trails, senior center enhancements, additional natural open space, an indoor pool, a dog park, more benches and seating areas in the parks, gardens and picnic shelters/pavilions.

Young Professionals - Needs

There is a need in the park system to address the recreational needs of young professionals (+/- 20 - 30 years old). Community leaders in Richardson have identified this age group as a vital ingredient in the recipe for healthy long term growth for the city. Based on a focus group specifically for young professionals, there is a need for additional trails, a dog park, an indoor pool and increased amount of open space/natural areas.

There is a need to expand programming for this age group and to provide information through social networks such as Facebook and Twitter. The excellent Corporate Challenge program currently offered through the parks department needs to be expanded to include “off season” opportunities for young professionals. Such future programming - in order to be effective for much of this age group - should not be overly competitive and contain a social component.

Golf Course - Needs

The golf course needs for the City of Richardson are being met by the high quality 36 hole Sherrill Park Municipal Golf Course.

Conclusions - Key Points

It is important to analyze the actual needs of the community so that the recommendations and future development of Richardson’s park system is representative of what the citizen’s desire.

- The current level of service provided through the park system is acceptable, but not at the desired level. In order to maintain the current level of service, approximately 75 acres of parkland must be added to the system by 2020 to accommodate the projected population of 108,400.
- There is a need to replace the indoor recreation center at Heights Park
- There is a need to construct a neighborhood family aquatic center in place of Arapaho pool.
- There is a need for ±5acre parks in the southwestern corner of Richardson and the Northrich area to serve the currently unserved residents with neighborhood parks.
- There is a need to construct new multi-use and soft surface trails that connect existing trail segments into logical and useable routes for recreation and alternate transportation routes.
- There is a need to construct an indoor aquatic center.
- There is a need to further develop Breckinridge, Prairie Creek and Heights Park in accordance with the individual park’s master plans.
- There is a need for a central community park to serve as the recreational & cultural hub of the city.
- There is a need to enhance the existing trails with amenities and landscaping.

- There is a need to redevelop ten neighborhood parks into unique spaces to serve the needs of the neighborhoods that they anchor.
- There is a need for an outdoor aquatics facility and an indoor recreation center in the northeastern portion of Richardson.
- There is a need to acquire and develop a ±25 acre park for tournament quality lighted soccer, cricket and lacrosse.
- There is need for a 5-10 acre park in the Telecom Corridor to enhance the entire employment center and to meet the recreational needs of those that work there.
- There is a need to acquire high quality natural open spaces as a component of the park network.
- There is a need for all Parks Capital Projects to contain an art budget of between one-half percent to two percent of the construction associated with that individual project.
- There is a need for a significant indoor athletic venue designed for multiple court sports including basketball and volleyball.
- There is a need for public open space and trail connections in future Transit Oriented Development districts to provide a well balanced, pedestrian friendly environment.
- There is a need for aesthetic identification treatments and beautification efforts in the City's rights of ways.

VII. PRIORITIES/RECOMMENDATIONS

Priorities

Based on results from the, focus group meetings, citizen survey, public meetings, city staff, professional opinion and the needs analysis, the following Parks and Recreation Facility Priorities, which are depicted in descending order, are adopted and should be pursued.

Parks and Recreation Facility Priorities

Rank	Facility
1	Multi-use Trails
2	Swimming Pools/Spraygrounds
3	Natural Areas
4	Dog Park
5	Botanic/Community Garden
6	Benches & Seating Areas
7	Picnic Shelters/Pavilions
8	Band Stand/Amphitheater
9	Indoor Recreation Centers
10	Indoor Athletics including Basketball & Volleyball
11	Skate Park
12	Soccer Fields
13	Disc Golf Course
14	Outdoor Basketball Courts
15	Senior Center
16	Playgrounds
17	Sand Volleyball
18	Tennis Courts
19	BMX Track
20	Football Fields
21	Cricket Fields
22	Lacrosse Fields
23	Baseball Fields
24	Softball Fields
25	Rugby Fields

Recommendations

The following actions are recommended to be implemented to ensure that the parks and open space system continues to meet the recreational needs of the growing city.

New Parks

- Acquire and develop +/-5 acres in southwest Richardson as a neighborhood park
- Acquire and develop +/- 5 acres in the Northrich area of central Richardson as a neighborhood park.
- Acquire and develop +/- 40 acres in central Richardson as a community central park
- Acquire and develop +/- 25 acres as a field sports complex for soccer, football, cricket and lacrosse
- Acquire and develop +/-5 acres in the Telecom Corridor as a special neighborhood park.
- Acquire and develop parkland in Transit Oriented Development zones that meets planning objective for each zone.

Park Upgrades

- Prepare master plans for enhancements and improve nine existing neighborhood parks including Berkner, Canyon Creek, Custer, Glenville, Mark Twain, Mimosa, Richland, Terrace, Woodland and Yale.
- Continue recreational facility developments within Breckinridge Park, Heights Park and Prairie Creek Park in accordance with the adopted site master plans for each park.

Athletics

- Develop a multi-purpose field sports complex with at least six soccer fields, one football field, one lacrosse field and one cricket field. The layout of the complex should allow for maximum flexibility to accommodate league play, tournaments, as well as non-sporting events such as festivals. The facility should be fully lighted.

Aquatics

- Reconstruct Arapaho pool and bath house as a neighborhood family aquatic center
- Construct a splash pad in the northeastern portion of Richardson
- Construct a neighborhood family aquatic center in northeastern Richardson.
- Construct an indoor aquatics facility.
- Continue operation of Cottonwood Pool, Canyon Creek Pool, Glenville Pool and Terrace

Trails

- Continue to construct trail segments that result in meaningful routes. The trail system should connect parks, neighborhoods, schools and UTD and be designed to compliment the existing natural environment.

Natural Open Space

- Acquire and preserve key remaining natural areas - as is feasible for passive and primitive recreational opportunities as well as for natural habitat and trail corridors.

Urban Beautification and Identification

- Enhance existing rights of ways with identification treatments and landscaping to improve the aesthetic appeal of Richardson and denote key entry portals and gateways.

Indoor Recreation Center

- Construct an indoor recreation center to replace the Heights Recreation Center. Address the growing need for indoor athletics including basketball and volleyball and construct an indoor facility in Huffhines Park or other appropriate facility.

Senior Citizens

- Construct multi-purpose walking trails, enhanced landscaping, gardens, picnic areas, dog accommodations and benches in new and upgraded parks to accommodate senior citizens.
- Install and upgrade playgrounds so grandparents can bring their grandchildren to fun and safe environments to play.
- Construct an indoor pool.

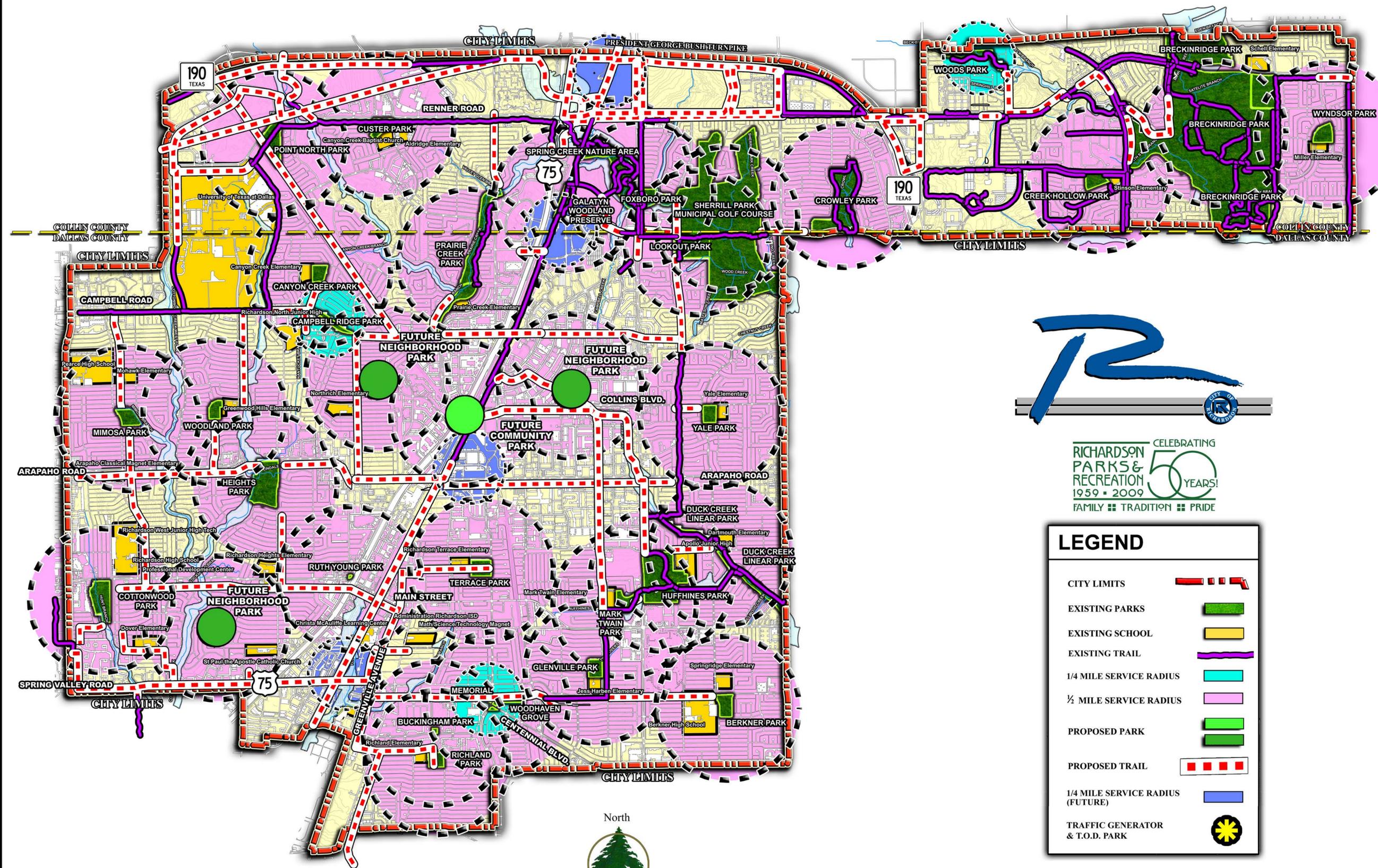
VIII. IMPLEMENTATION

The following table depicts the project priorities for Richardson for the years 2010 and beyond. It is important to note that the following is intended to be a flexible guide for the development of parks and recreational facilities over the next thirty years. The city should evaluate and take advantage of any unforeseen opportunities that may arise that are not identified in the implementation program if necessary. Additionally, the city should actively seek partnerships and non-traditional funding sources to expedite implementation where possible and to alleviate some of the burden of implementation expense on citizens.

Parks and Recreation Implementation

	Project	Potential Funding Source
▶	Reconstruct indoor recreation center at Heights Park	TPWD Grant (Indoor) General Fund General Obligation Bond
▶	Reconstruct Arapaho Pool	General Fund General Obligation Bond
▶	Acquire and develop park land in under served areas of southwest Richardson and the Northrich area	Land Donation TPWD Grant (Outdoor) General Fund General Obligation Bond
▶	Construct new multi-use trails and soft surfaced trails	TPWD Grant (Trails TxDOT (Enhancement) General Fund General Obligation Bond
▶	Develop Breckinridge, Heights and Prairie Creek Parks in accordance to their master plans	General Fund General Obligation Bond
▶	Enhance the existing multi-use trail system with amenities and landscaping	TPWD Trail Grant TxDOT (Enhancement) General Fund General Obligation Bond
▶	Capital improvement projects for parks and open space will contain a public art element equivalent to half percent to two percent of the construction budget. Urban beautification and identification needs to be expanded.	TPWD Grant General Fund General Obligation Bond
▶	Construct an indoor aquatic facility	TPWD Grant (Indoor) General Fund General Obligation Bond

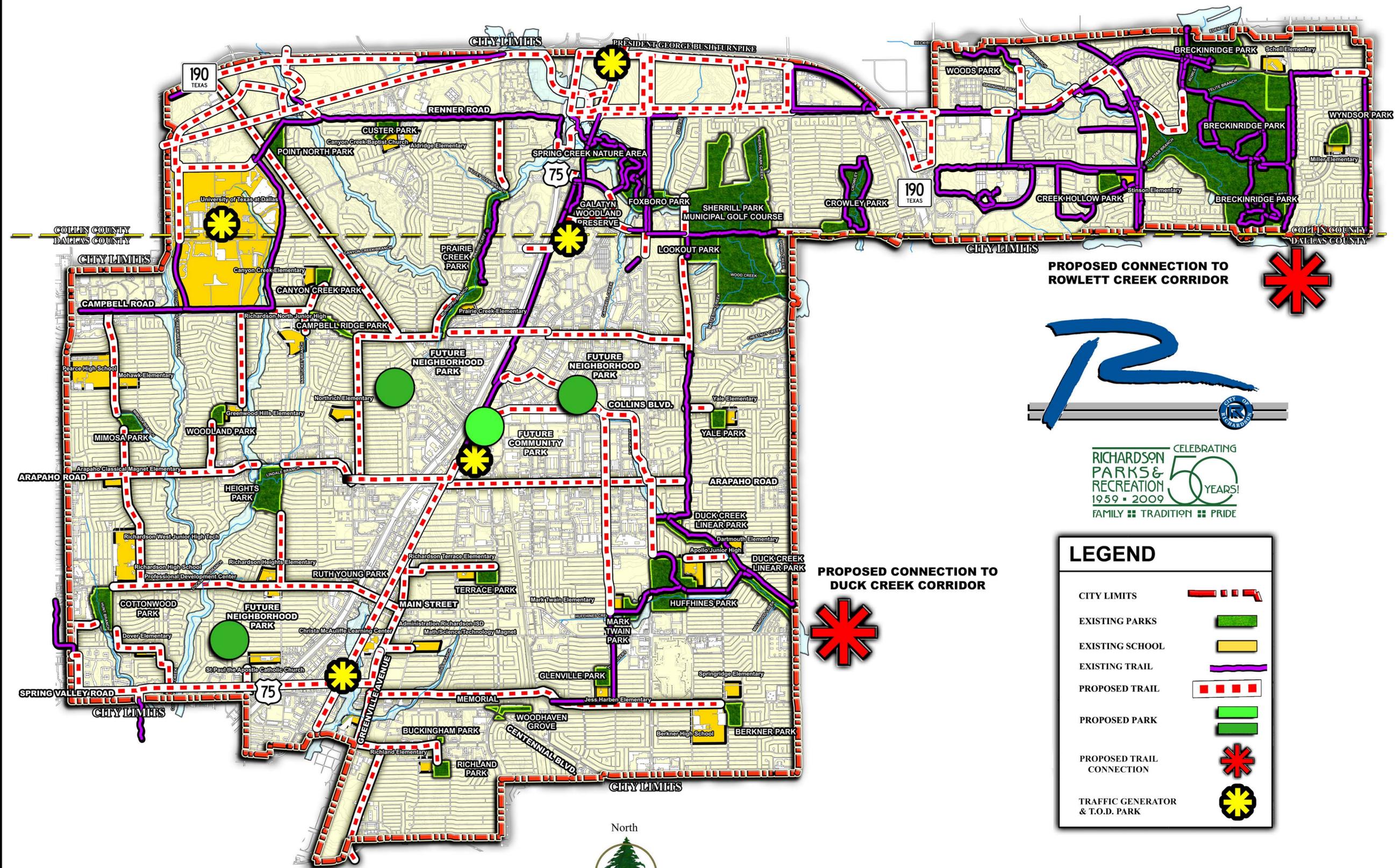
	Project	Potential Funding Source
▶	Acquire and develop a community central park - could include green/open space, nature trails, skate park, dog park and/or gardens. The park could also accommodate an aquatics facility or other park facilities	Land Donation TPWD Grant (Outdoor) General Fund General Obligation Bond
▶	Develop a dog park	General Fund General Obligation Bond
▶	Master plan and enhance ten existing neighborhood parks	General Fund General Obligation Bond
▶	Construct an outdoor aquatics facility and sprayground in the NE quadrant of Richardson	General Fund General Obligation Bond
▶	Acquire and develop a +/- 25 acre park for lighted field sports - including soccer, cricket, football, and lacrosse	RSA SVAA Private Partners Land Donation TPWD Grant (Indoor & Outdoor) General Fund General Obligation Bond
▶	Acquire and develop a +/- 5 acre park in the Telecom Corridor Employment Center	Land Donation TPWD Grant (Outdoor) General Fund General Obligation Bond
▶	Expand Huffhines Recreation Center for additional gymnasium space as planned & if feasible develop a separate venue at a site to be determined, a large indoor athletics facility to accommodate 12 to 16 courts for volleyball and basketball.	TPWD Grant (indoor) General Fund General Obligation Bond
▶	Acquire & develop parkland in accordance with Transit Oriented Development objectives.	TPWD Grant General Fund General Obligation Bond



CELEBRATING
RICHARDSON
PARKS & RECREATION
1959 • 2009
FAMILY ■ TRADITION ■ PRIDE

LEGEND	
CITY LIMITS	
EXISTING PARKS	
EXISTING SCHOOL	
EXISTING TRAIL	
1/4 MILE SERVICE RADIUS	
1/2 MILE SERVICE RADIUS	
PROPOSED PARK	
PROPOSED TRAIL	
1/4 MILE SERVICE RADIUS (FUTURE)	
TRAFFIC GENERATOR & T.O.D. PARK	





PROPOSED CONNECTION TO ROWLETT CREEK CORRIDOR

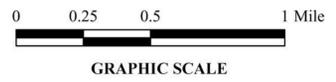


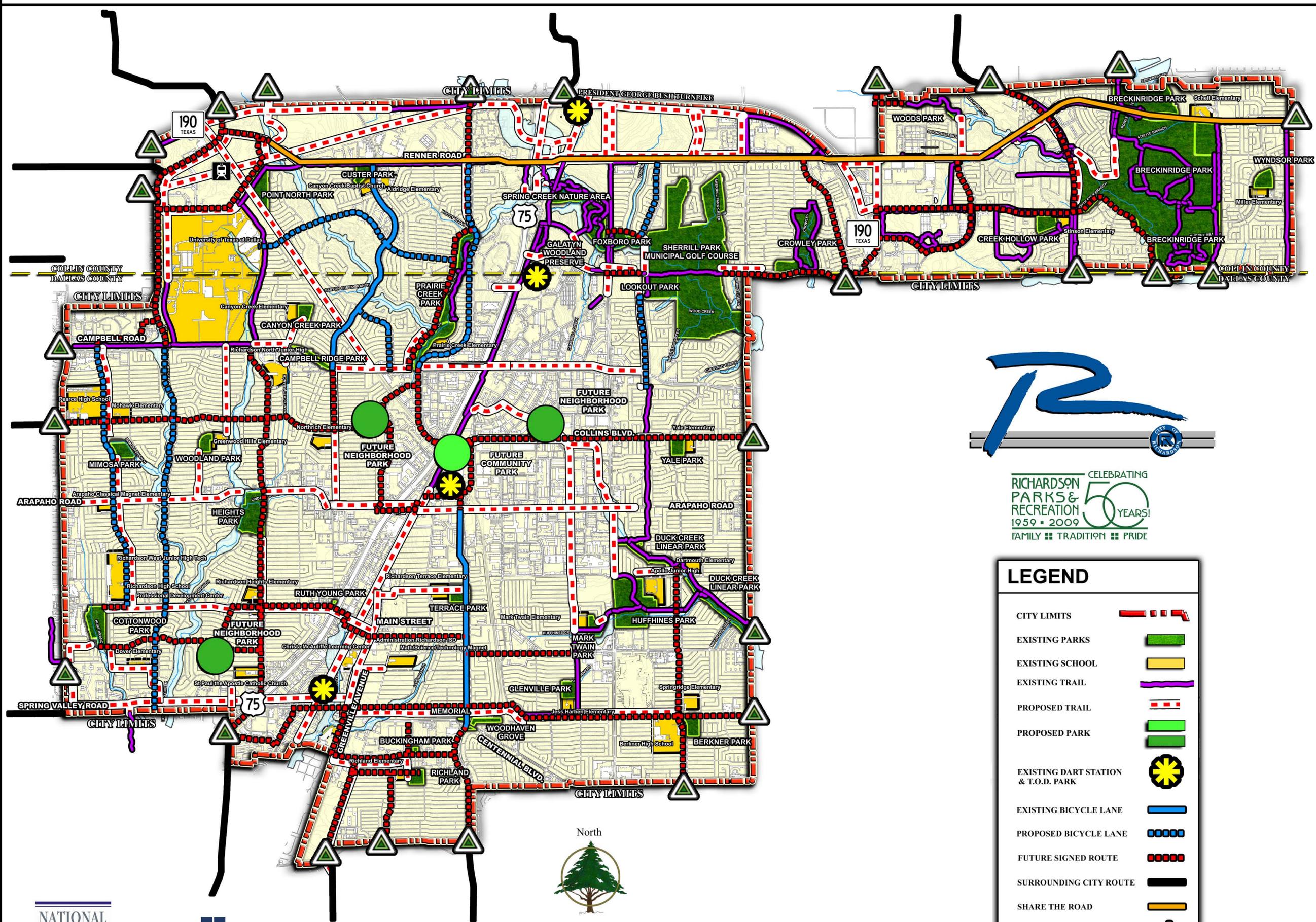
CELEBRATING
RICHARDSON
PARKS & RECREATION
1959 • 2009
FAMILY ■ TRADITION ■ PRIDE

PROPOSED CONNECTION TO DUCK CREEK CORRIDOR



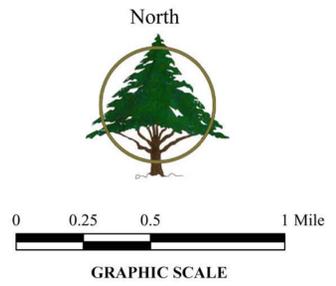
LEGEND	
CITY LIMITS	
EXISTING PARKS	
EXISTING SCHOOL	
EXISTING TRAIL	
PROPOSED TRAIL	
PROPOSED PARK	
PROPOSED TRAIL CONNECTION	
TRAFFIC GENERATOR & T.O.D. PARK	





LEGEND

CITY LIMITS	
EXISTING PARKS	
EXISTING SCHOOL	
EXISTING TRAIL	
PROPOSED TRAIL	
PROPOSED PARK	
EXISTING DART STATION & T.O.D. PARK	
EXISTING BICYCLE LANE	
PROPOSED BICYCLE LANE	
FUTURE SIGNED ROUTE	
SURROUNDING CITY ROUTE	
SHARE THE ROAD	
JURISDICTION CONNECTION	



REVISIONS:
07/12/10
212 West Ninth Street
Tyler, Texas 75701
903-597-6606
903-597-0517 Fax

MHS
PLANNING & DESIGN, LLC

BICYCLE ROUTES
CITY OF RICHARDSON
COLLIN & DALLAS COUNTIES, TEXAS

DRAWN: DEL
CHECKED: MHS
DATE: JULY 2009
SCALE: AS SHOWN
JOB NO.: 00-000

IX. EXISTING AND AVAILABLE MECHANISMS

In order to implement this park and open space plan update, there are a variety of funding mechanisms and tools available for use by the City of Richardson. These include:

TEXAS RECREATION & PARKS ACCOUNT PROGRAM - This program, administered by Texas Parks and Wildlife, is a matching grant program which may be used to aid communities in acquisition and development of parks and open space. This grant program includes the Outdoor Recreation Acquisition and Development Program and the Texas Recreation & Parks Account Indoor Recreation Program.

TEXAS RECREATIONAL TRAILS FUND - The Texas Parks and Wildlife Department administers the National Recreational Trail Fund through a provision in the Federal Highway Bill. The National Recreational Trail Grants provides 80% matching funds (maximum \$200,000) for both motorized and non-motorized trail projects in local communities for hikers, cyclists, horseback riders, off-road motor vehicles, and nature enthusiasts. Funds can be utilized to construct new recreational trails, improve/maintain existing trails, develop/improve trail heads or trail side facilities, and acquire trail corridors. Eligible sponsors include city and county governments, state agencies, river authorities, water districts, MUDs, school districts, federal land managers, non-profit organizations, and other private organizations.

NATIONAL FISH AND WILDLIFE FOUNDATION - The national Fish and Wildlife Foundation promotes healthy populations of fish, wildlife, and plants by generating new commerce for conservation. The foundation leverages public dollars with corporate, private, and other non-profit funds. Funds are available on an as-need basis.

PAY AS YOU GO - This method of financing park improvements involves budgeting for land acquisition, development, and maintenance of park facilities through the city's annual budget process. Allocations for park improvements are made and spent annually through the standard budget process.



GENERAL OBLIGATION BONDS - These bonds are issued by the city following an election in which the voters authorize their issuance for specific stated purposes, as well as the necessary tax increases to support them. These bonds pledge the property or ad valorem taxing power of the city.

CERTIFICATES OF OBLIGATION - These certificates have basically the same effect as general obligation bonds except they do not require an election to authorize them. An election can be petitioned by five percent of the registered voters of the city. These certificates are issued on the authorization of the City Council. Repayment is based on the property taxing power of the city, utility system revenues, or a combination of the two.

USER FEES - This method of financing requires the eventual user of each park to pay a fee for the use of each facility. Fees to be charged users can be established to pay for debt service, maintenance, and operation of the park system.

PRIVATE OR CORPORATE DONATIONS - Donations from foundations, corporations, and/or private individuals are often used to acquire and develop parks. The city should constantly identify and pursue opportunities to receive such funding for parks. One avenue for receiving donations is through the use of the Texas Parks & Recreation Foundation. This foundation has been developed to help all communities in the State of Texas to maximize the benefits of donations of land, property, and money.

X. SUMMARY

The residents of the City of Richardson are generally pleased with the existing park system. The citizens desire improvements in the existing parks in order to better meet the needs of the growing population. They also expressed a need for additional neighborhood and community parks to serve the currently unserved Telecom Corridor, southwestern and central portions of the city. The carrying capacity analysis revealed a need for a multi-use field sport complex and an indoor sports complex to host major athletic tournaments, which will have a positive economic impact on the community.

This plan also recommends that the city acquire and preserve natural open spaces where feasible. These greenways will enable the construction of multi-purpose walking trails and preserve valuable habitat.

This plan is to be utilized as a flexible tool which should be reviewed annually and updated every two years to continue to reflect the unique recreational needs of the area. The city should take advantage of any unforeseen opportunities not identified in the plan that may arise, such as donations of land and/or facilities as long as the actions meet the intent of the goals, objectives and recommendations of this plan.

With the proposed additions to the park system that are outlined in this plan will come additional maintenance and operational needs in order to best utilize, manage, and care for both the new facilities and those that exist today. While natural areas are typically left in their natural state, it is important to emphasize the need for an ongoing management program. A successful management program for the natural areas of the park system will insure that the region's natural resources are maintained in optimum condition.

The proposed improvements contained in this plan will enhance the quality of life throughout the region and help ensure that Richardson is able to keep pace with the growing recreational needs of the residents. The resulting benefits include increased quality of life, tourism potential, increasing property values and pride in the residents of the area.

APPENDIX I

AERIAL MAPS OF EXISTING PARKS

BERKNER PARK - 10.0 ACRES



BRECKINRIDGE PARK - 417.13 ACRES



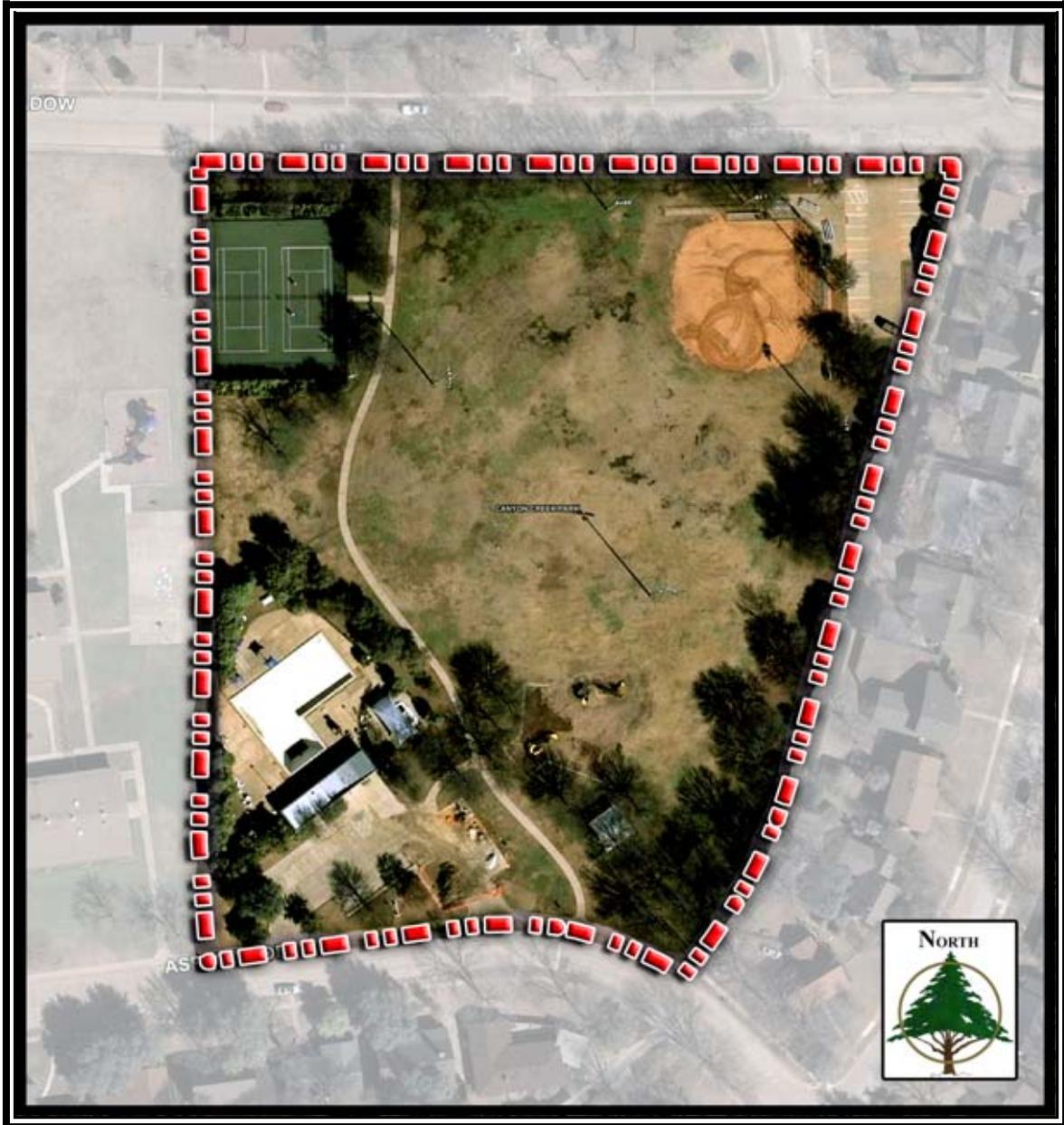
BUCKINGHAM PARK - .25 ACRES



CAMPBELL RIDGE PARK - 5.4 ACRES



CANYON CREEK PARK - 8.98 ACRES



COTTONWOOD PARK - 25.31 ACRES



CREEK HOLLOW PARK - 8.7 ACRES



CROWLEY PARK - 58.53 ACRES



CUSTER PARK - 7.02 ACRES



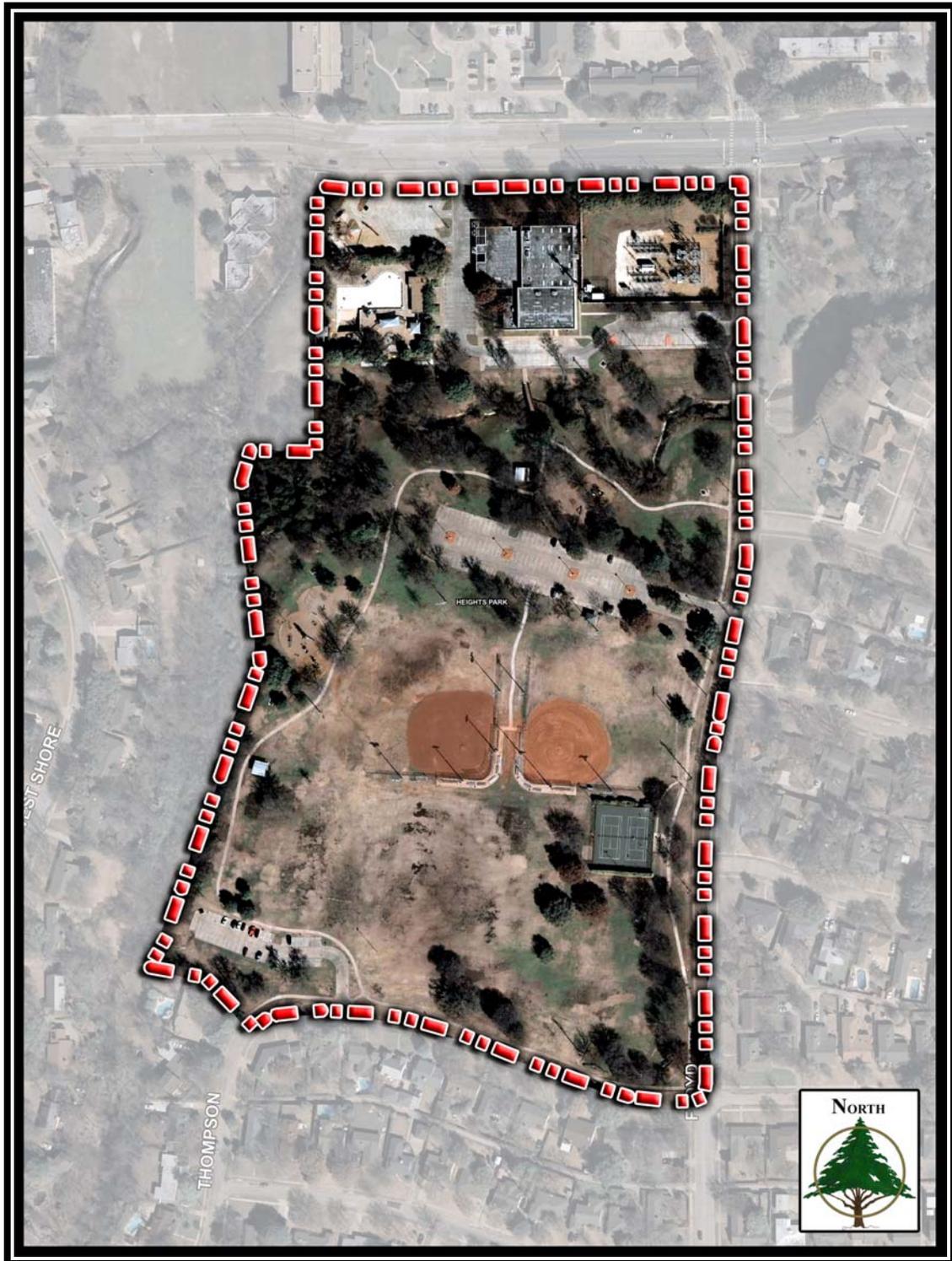
GALATYN WOODLAND PRESERVE - 8.0 ACRES



GLENVILLE PARK - 7.5 ACRES



HEIGHTS PARK - 33.0 ACRES



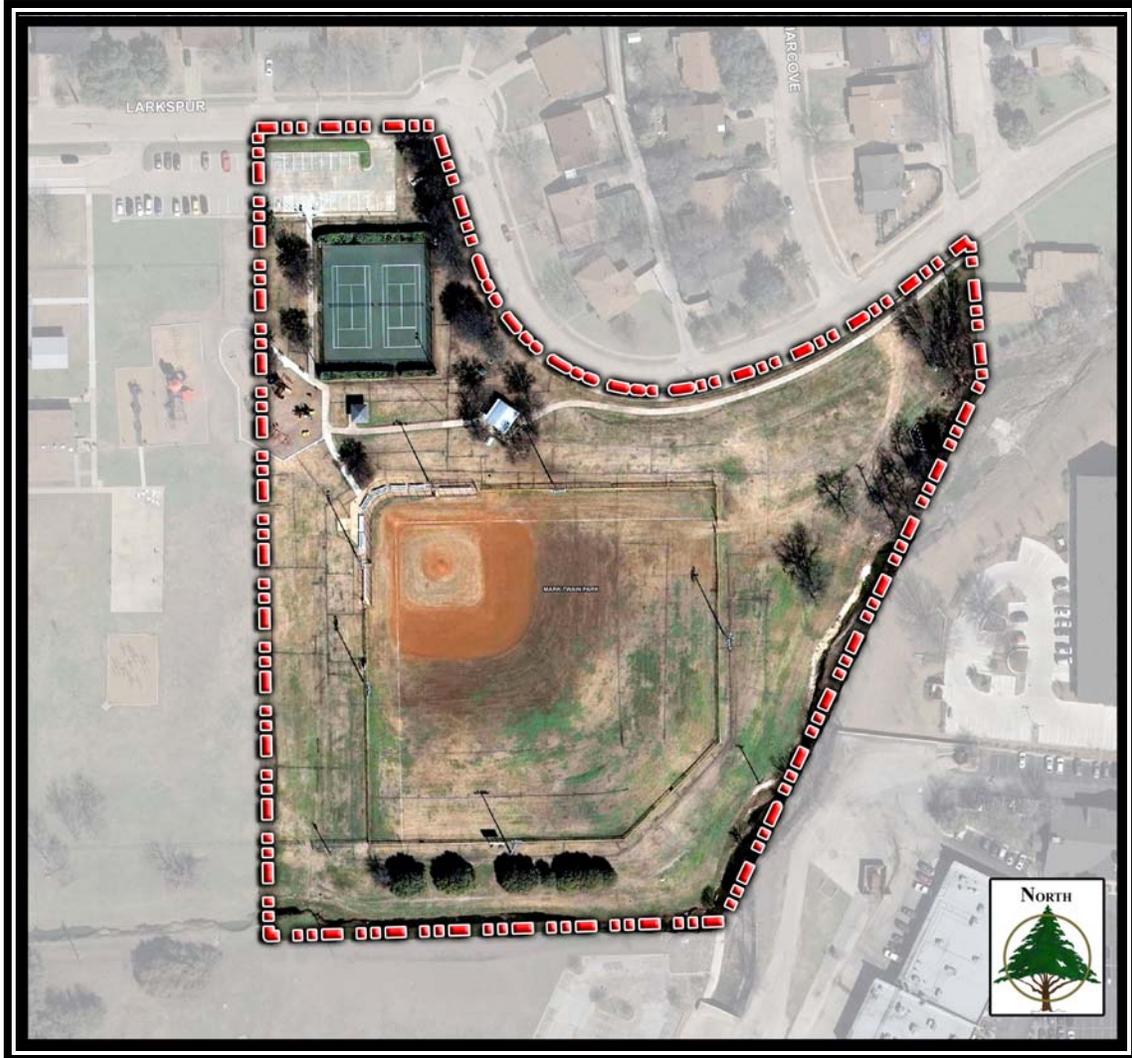
HUFFHINES PARK - 54.54 ACRES



LOOKOUT PARK - 25.0 ACRES



MARK TWAIN PARK - 8.95 ACRES



MEMORIAL PARK - .84 ACRES



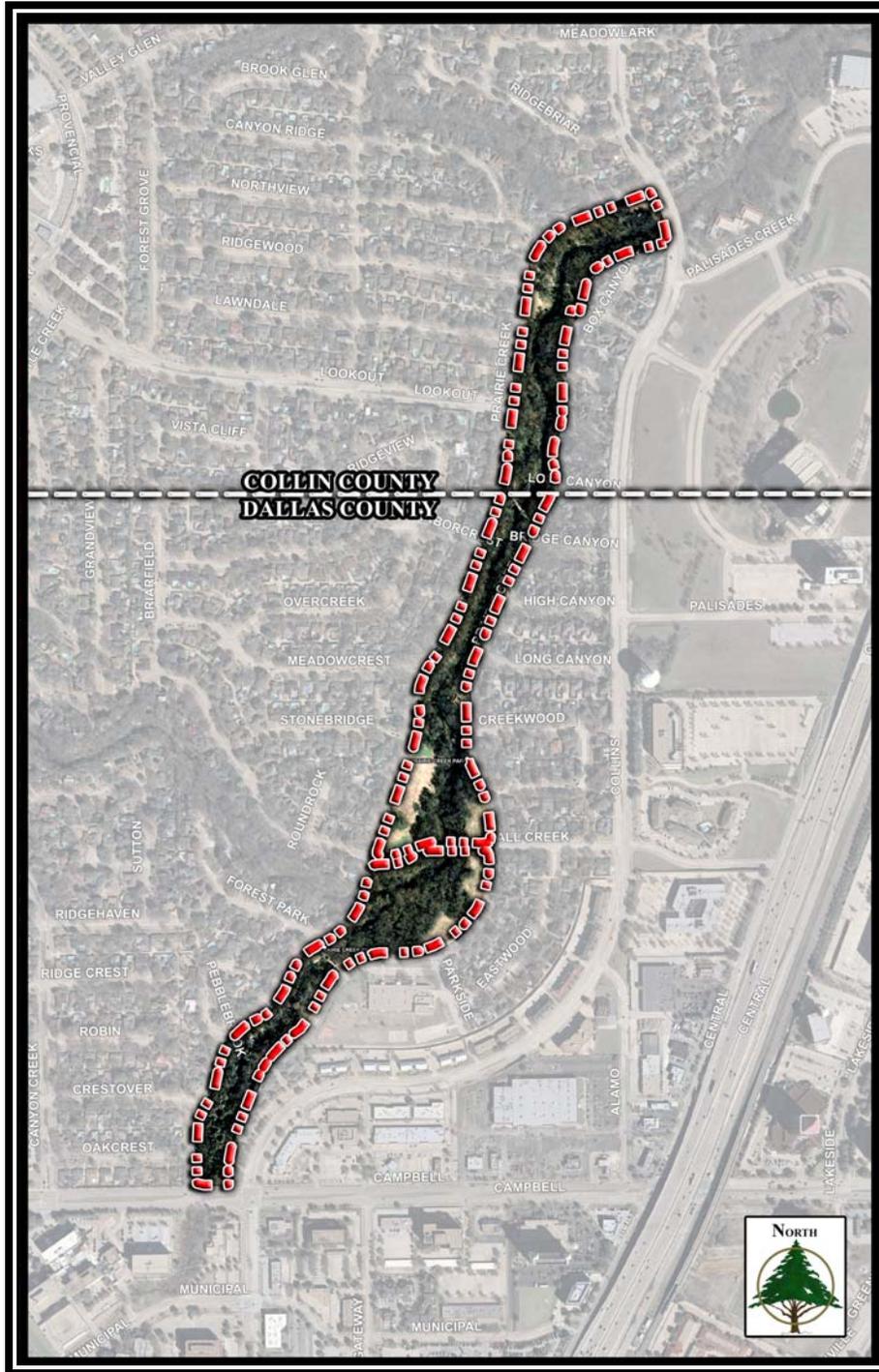
MIMOSA - 9.41 ACRES



POINT NORTH PARK - 5.49 ACRES



PRAIRIE CREEK PARK - 37.25 ACRES



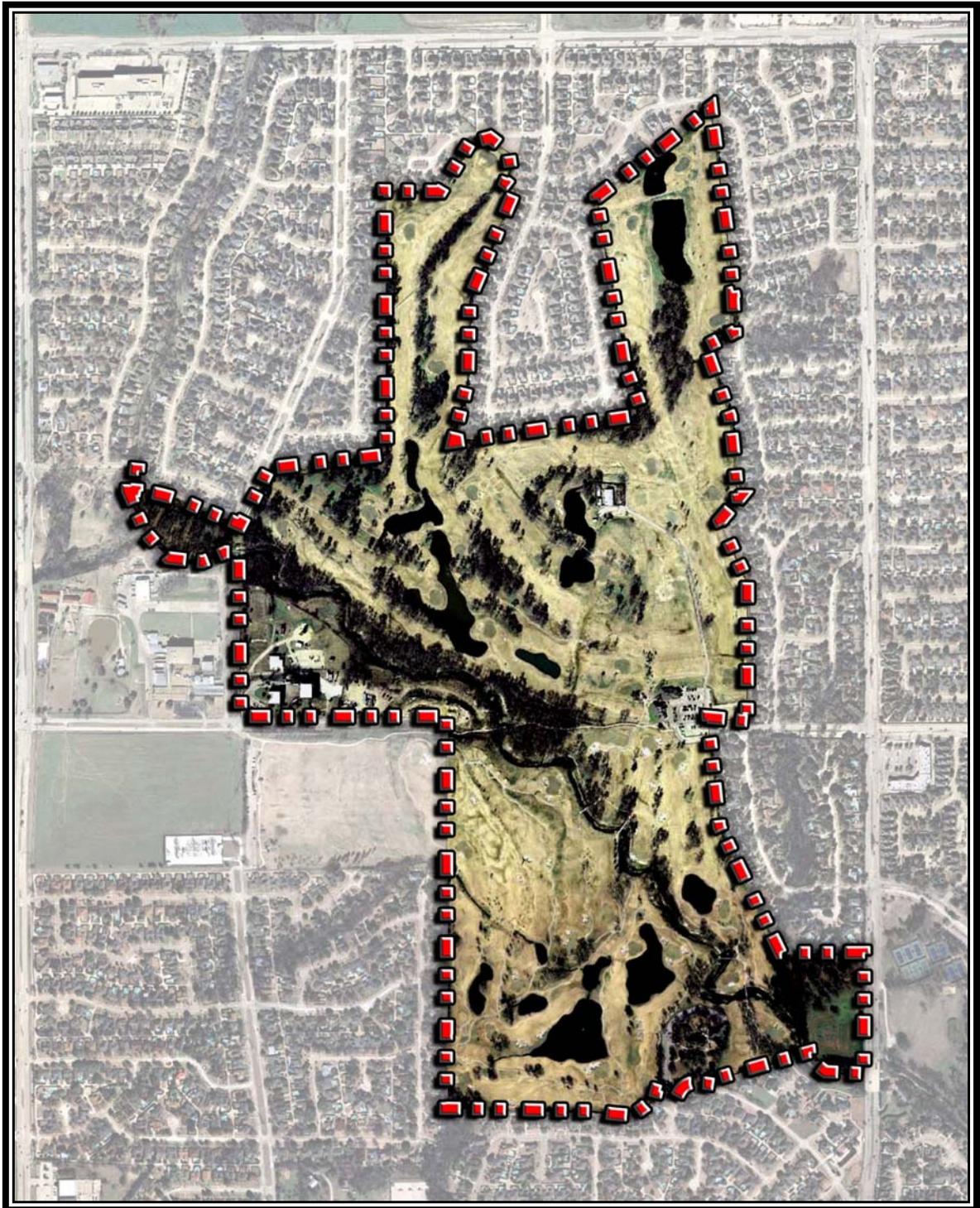
RICHLAND PARK - 7.37 ACRES



RUTH YOUNG PARK - .3 ACRES



SHERRILL PARK MUNICIPAL GOLF COURSE



SPRING CREEK NATURE AREA - 51.0 ACRES



TERRACE PARK - 10.24 ACRES



WOODHAVEN GROVE PARK - 3.32 ACRES



WOODLAND PARK - 5.92



WOODS PARK - 6.99 ACRES



WYNDSOR PARK - 10.0 ACRES



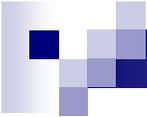
YALE PARK - 7.5 ACRES





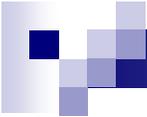
City of Richardson Park & Recreation Needs Assessment Study

Preliminary
Executive Summary
October 2, 2009



Introduction and Methodology

- **National Service Research (NSR)** completed a comprehensive research study for the City of Richardson, Texas as part of the Comprehensive Park and Recreation Master Plan. An important aspect of the Master Plan was to conduct a demand and needs assessment which involved citizen input. The purpose of the needs assessment study was to provide a foundation for the Comprehensive Park and Recreation Master Plan that will provide guidance based upon citizen needs and priorities. NSR worked closely with MHS Planning and Design and the City of Richardson staff throughout the research process.
- In order to complete this study effort, National Service Research, MHS Planning and Design conducted a public meeting on July 27 and two focus groups on July 30 to understand the needs of the citizens. The project team also interviewed community leaders, city council, allied partners, and city staff to understand additional community needs. The results of these discussions assisted in the design of the survey document. NSR mailed 7,000 surveys proportionately to five sectors in Richardson. A total of 525 mail surveys were returned and computer processed. NSR also provided an online survey link to the City of Richardson which was posted on their web site. A total of 140 survey responses were received via the online survey for a total of 665 surveys. The margin of error of this sample size at a 95% confidence level is plus or minus 4%. The citizen survey and detailed survey results are presented in the Appendix of the technical volume report.



Summary of Key Findings

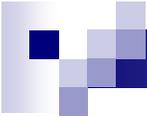
Focus Groups/Public Meeting

Respondents commented that Richardson is a unique community in many ways. Respondents valued these characteristics and would like them to be continued:

- A small family oriented town with good community values nestled into a large urban area.
- Good schools and government with exceptional staffs
- Strong sense of community (people invest here)
- Small city character should be maintained
- More people work here than live here
- There is a need to attract young families to take the place of an aging population
- There are strong partnerships between the City and Richardson ISD, UT Dallas, Richland College and Dallas County – these partnerships should be continued and expanded.
- Richardson's geographic location in the metroplex is a key asset

Needs/Vision of the current park & open space system:

- Trails that connect into a true network – some soft surfaced
- Natural areas (nature interpretation/marked wildlife habitat areas)
- Dog parks
- Shade (in parks and along trails, more trees)
- Further development of Breckinridge Park
- A signature project that is the nucleus of Richardson
- A new park to serve the southwestern portion of town



Summary of Key Findings

Focus Groups/Public Meeting

- Transform underutilized land uses i.e. old commercial centers into green spaces and parks
- More cultural programs i.e. plays and concerts in the parks
- More park facilities specifically for teens and seniors
- Additional landscaping in some of the smaller parks to add character and beauty – move them being functional to being inviting and fun
- Utilize native landscaping that requires less maintenance and water
- Community gardens
- Disc golf courses
- Spray grounds/parks
- Indoor pool (horizontal and vertical water)
- Multi-use building
- Outdoor amphitheater
- Update indoor facilities
- More benches (utilize natural sitting elements like rocks, tree trunks)
- Skate park
- Mountain bike trails
- Indoor gym
- Baseball amenities
- Lighted playing fields for practice and games

Summary of Key Findings - Citizen Survey

Maintenance

- Respondents feel the trails and parks are well maintained with most respondents rating maintenance as excellent or good.
- The pools and recreation centers need some improvements as cited by the respondents.
- Very few respondents noted improvements are needed at the tennis center and senior center.

Park Facility Priorities

- It is clear citizens want additional trail connections throughout the city with nature trails. greenway corridors and open spaces/natural areas also being a priority.
- Other top priorities were (in order of priority); a new indoor pool, a dog park, botanic gardens, spray grounds, additional benches/seating areas, a new outdoor aquatic center, a senior center and a community garden.
- A new indoor pool (leisure, therapeutic, lap, sport, competition) ranked number two and an outdoor aquatic facility ranked ninth.

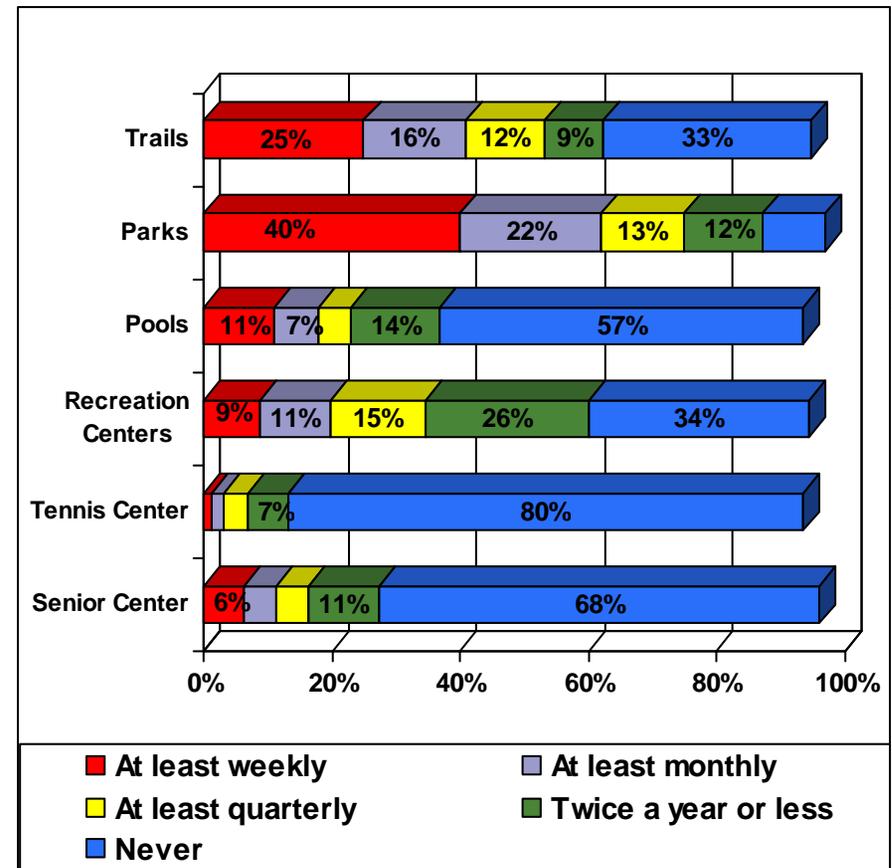
Aquatic Priorities

- When presented with several options as to how to provide aquatics to the citizens considering the aging five pools, their top option was to retain two or three pools and build an aquatic facility.
- Top aquatic amenities (in order of priority) were that the facility should be indoor, provide fitness/lap swimming, a flowing river and a zero depth entry.
- The number one ranked priority was that the facility should be indoor. The number five ranked priority was that the facility be outdoor.
- Other priorities were a play area with water features, a beach area, a water spray ground, a diving area, an Olympic sized 50 meter pool and a picnic area.

The findings herein will provide a foundation to guide the master plan priorities.

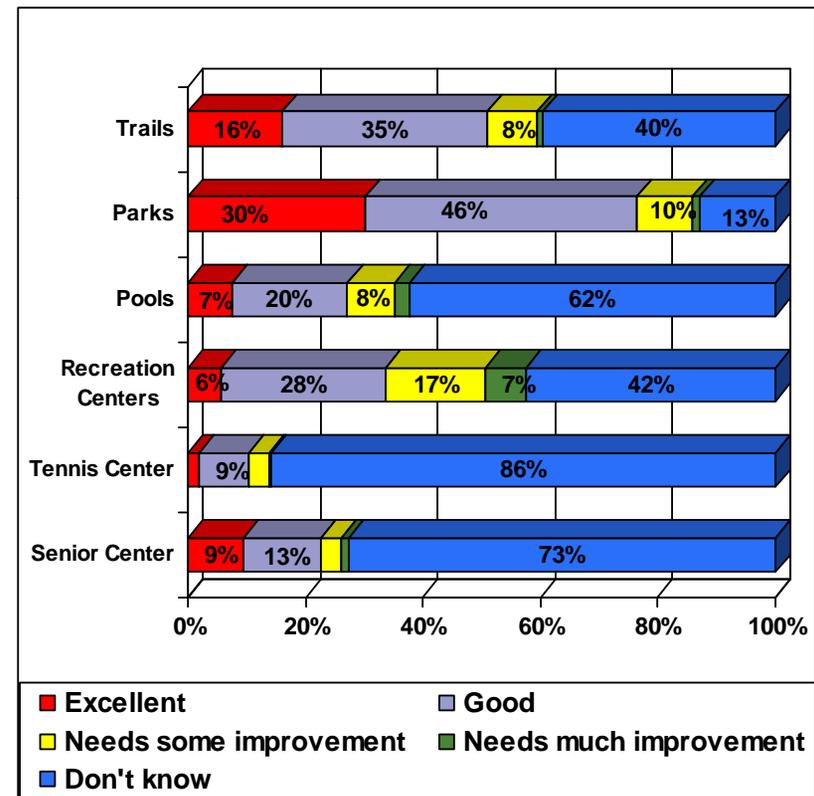
Frequency of Visiting Parks and Facilities in Richardson Within the Past Year

- Trails/greenbelts and parks are the most heavily used of the park facilities.
- Pools are heavily used by households with children – 29% of households with children 10 years of age or younger use the pools weekly.
- Recreation centers are used more by households with children.
- 65% of survey respondents age 65 or older use the Senior Center at least twice a year or more.
- The tennis center at Huffhines Park is used more by households with children aged 11 to 18.



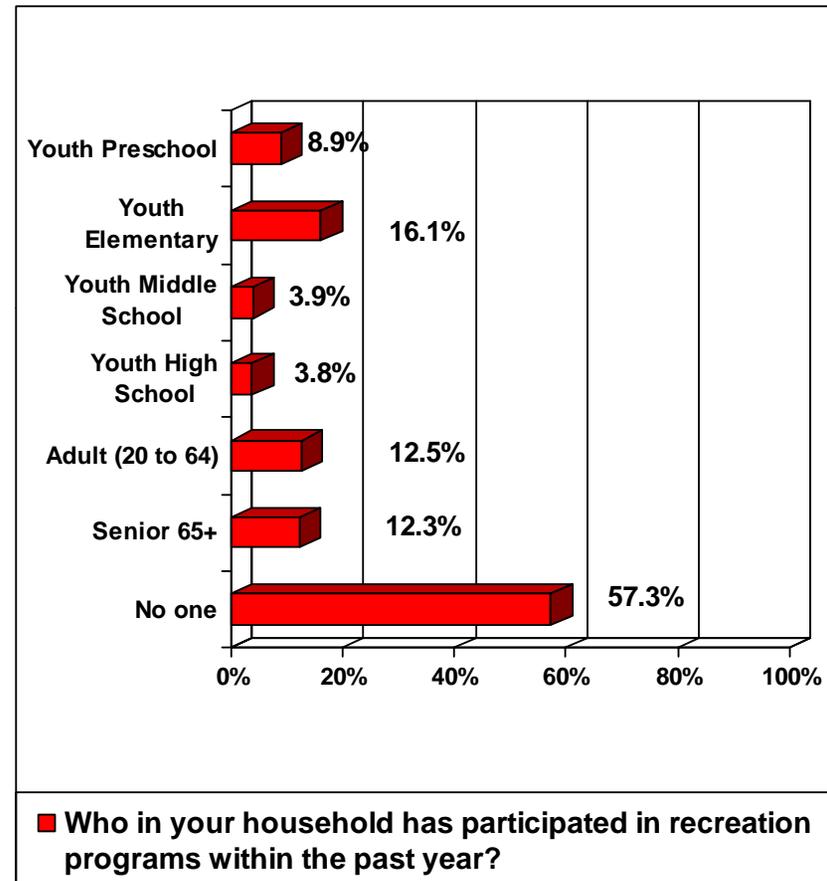
Maintenance Rating of Parks and Facilities in Richardson

- It is clear that the surveyed respondents feel the trails and parks are well maintained with most respondents rating maintenance as excellent or good.
- The pools and recreation centers need some improvements as sited by the respondents.
- Very few respondents noted improvements are needed at the tennis center and senior center.



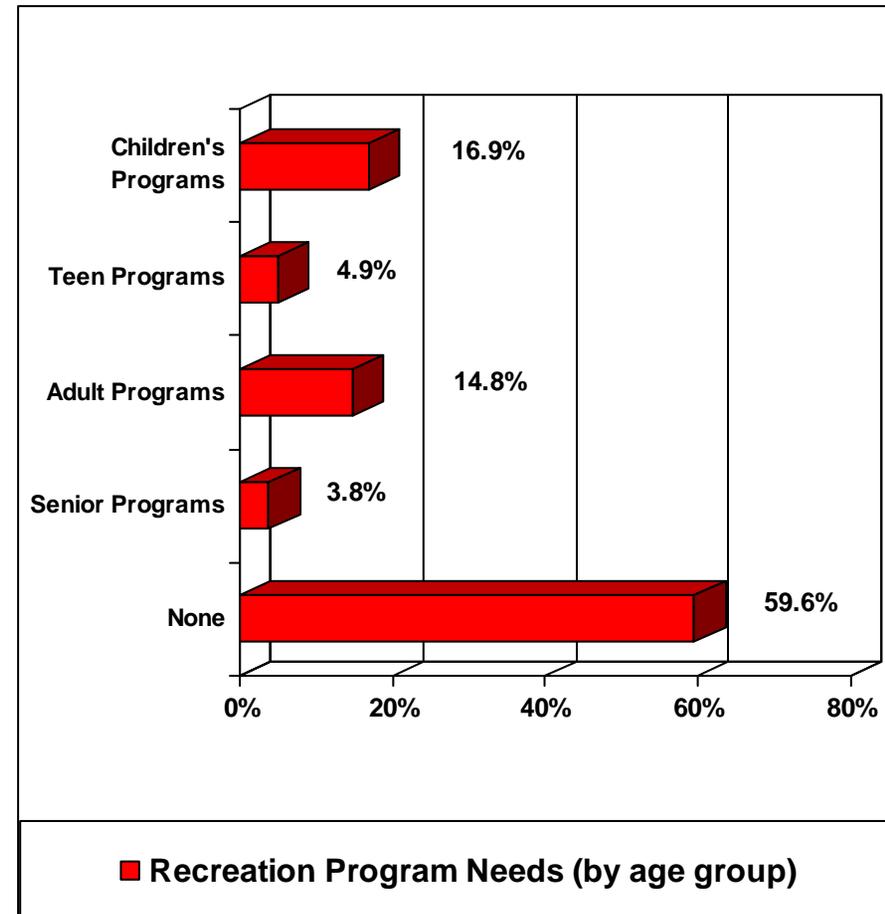
Recreation Program Participation

- Participation in recreation programs in Richardson is strong among youth groups.
- A fair number of adults and seniors participate in recreation programs.
- *These statistics indicate Richardson is providing programs that meet the needs of the citizens.*



Recreation Program Needs

- Program needs for children; t-ball, soccer for ages 4 and up, programs for special needs kids, more Mommy me programs, more classes for younger children (newborn to 3 years), more splash areas within the pool areas, art and science classes, boot camp programs, and toddler programs for working parents.
- Program needs for teens; skate park, piano and guitar lessons, arts and crafts.
- Program needs for Adults; co-ed soccer, indoor/outdoor volleyball leagues, Pilates and Yoga classes, photography, gardening, swim lessons, billiards, darts league, exercise classes during the evening, disc golf, indoor swimming opportunities, expanded work out facilities, basketball leagues and cooking and sewing classes.
- Senior program needs; exercise/fitness, diet tips, senior aerobics, and day trips,

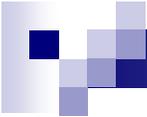


Most Needed Recreation Facilities for Richardson

<u>Facility</u>	<u>Priority Score</u>
1. Additional hike/bike/jog trails with connections in the City	14.57
2. New indoor pool (leisure, therapeutic, lap, sport, competition)	9.60
3. Additional nature trails/greenway corridors	9.42
4. Dog park	9.48
5. Additional open space/natural areas	6.00
6. Botanic garden	5.33
7. New spray ground	4.37
8. Additional benches/seating areas	4.17
9. New outdoor aquatic center	3.64
10. Senior Center	3.40
11. Community garden	3.37
12. Additional picnic shelters	2.85
13. New amphitheater	2.44
14. Additional recreation center	2.22
15. Additional playgrounds	1.75
16. Additional baseball fields	1.72
17. New skate park	1.68

- Respondents were asked to rate in rank order the recreation facilities most needed in Richardson.
- NSR calculated a weighted score for each facility rated. A #1 or most important received a weight of 40%, #2 most important a weight of 25%, #3 most important 20%, #4 most important 10% and #5 most important 5%.
- The table at left shows the priority of facilities in rank order that are most needed.
- This chart will greatly assist in developing master plan priorities.

Source: National Service Research, Mail and Online Survey of 665 Richardson Residents, October 2009



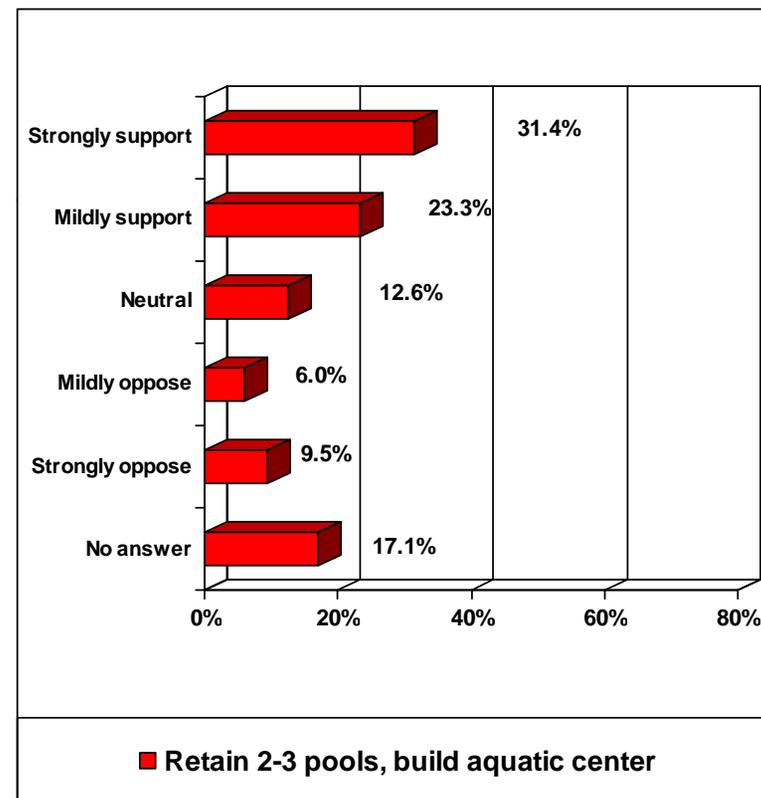
Most Needed Recreation Facilities for Richardson (Continued)

<u>Facility</u>	<u>Priority Score</u>
18. Additional soccer fields	1.57
19. New disc golf course	1.54
20. Additional basketball courts	1.45
21. Additional tennis courts	1.41
22. New BMX track	0.80
23. Additional softball fields	0.61
24. Additional football fields	0.55
25. Cricket fields	0.39
26. Lacrosse fields	0.37
27. Rugby fields	0.18

Opinions for Various Pool Options in Richardson

Option 1 - Retain Two or Three pools and Build an Aquatic Center

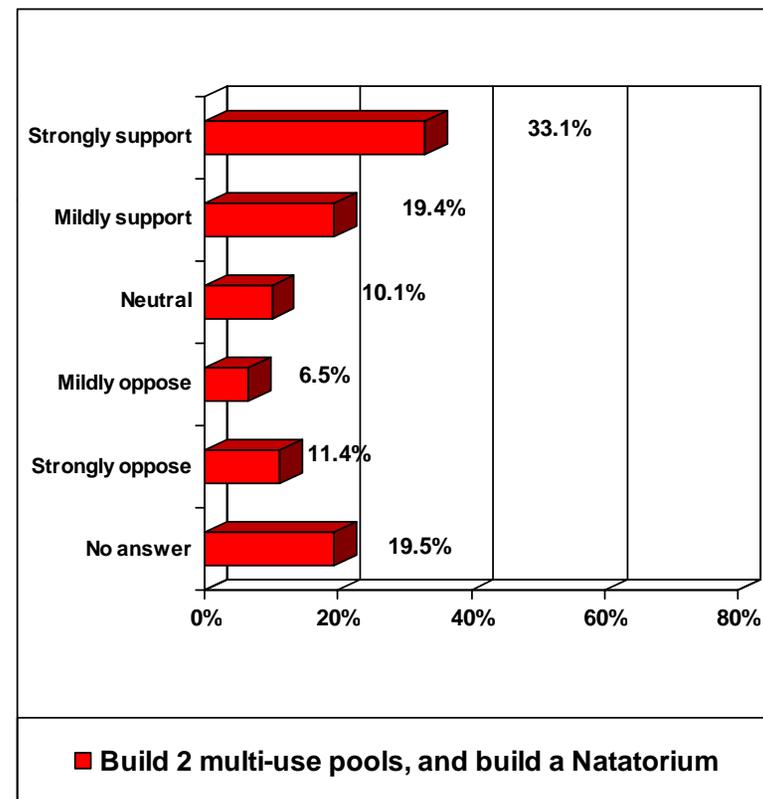
- The survey document explained the following: The City's pools are 40 to 50 years old and require significant upkeep and cost. The City is considering some new options such as an aquatic center with multiple pools, lap lanes as well as play and recreational areas. Survey respondents were asked to rate six different pool options.
- Retaining two or three pools and building an aquatic center had high support compared to the other pool options.
- This option was strongly supported by all age groups, and particularly by households with children.



Opinions for Various Pool Options in Richardson

Option 2 – Build Two Multi-Use Pools (one on each side of the City) and build a Natatorium. Close the existing 5 pools and replace them with another park amenity

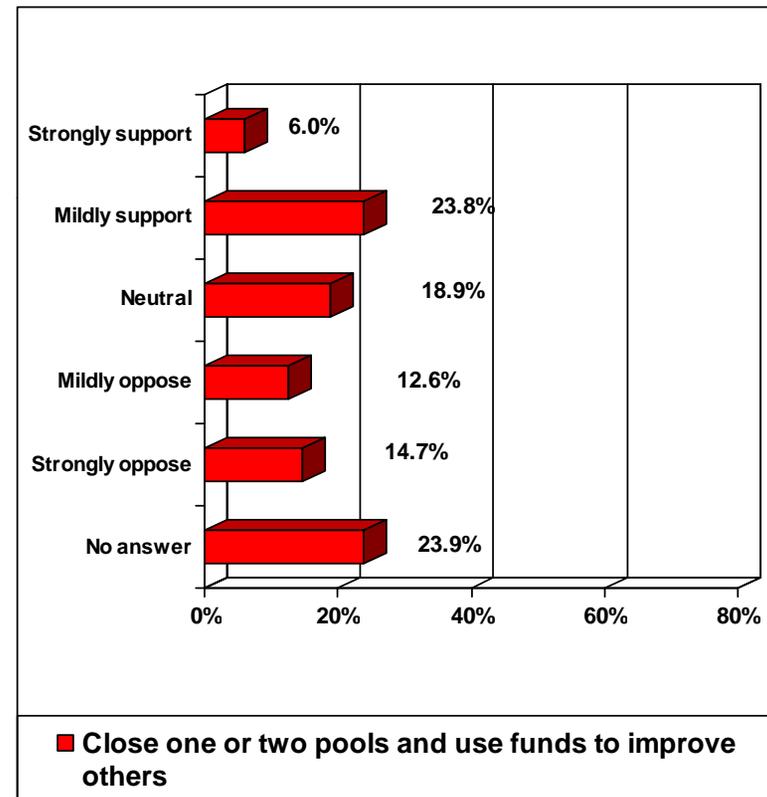
- Option 2 along with option 1 were the two most supported options presented to the respondents.
- This option was strongly supported by all age groups, and particularly by households with children.



Opinions for Various Pool Options in Richardson

Option 3 – Close One or Two Pools and Use Funds to Improve Others

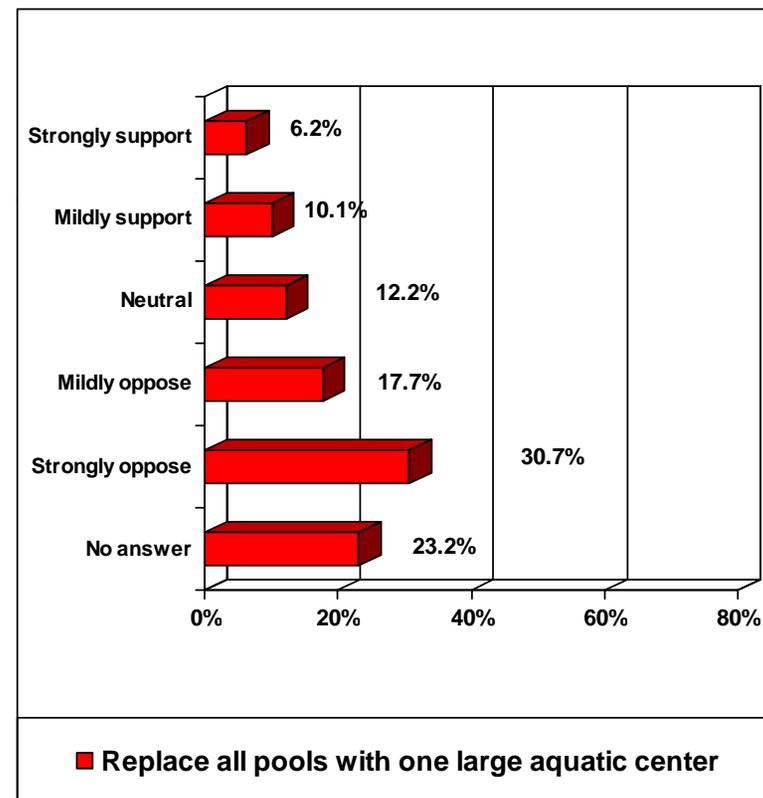
- This option received less support than Options 1 and 2.



Opinions for Various Pool Options in Richardson

Option 4 – Replace all Pools with One Large Aquatic Center

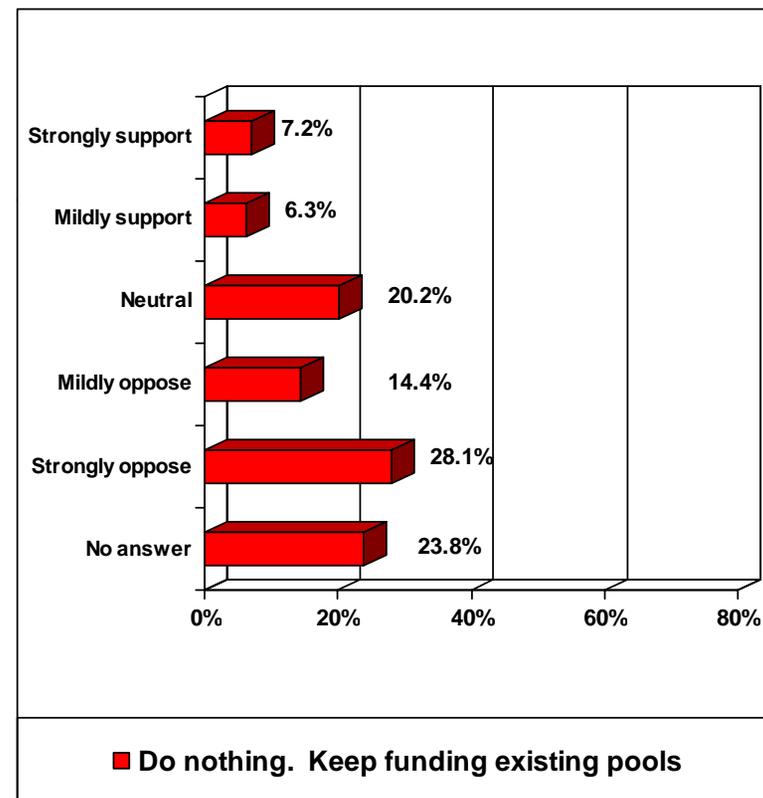
- This option received less support than Options 1, 2 or 3.



Opinions for Various Pool Options in Richardson

Option 5 – Do Nothing. Keep Funding Existing Pools

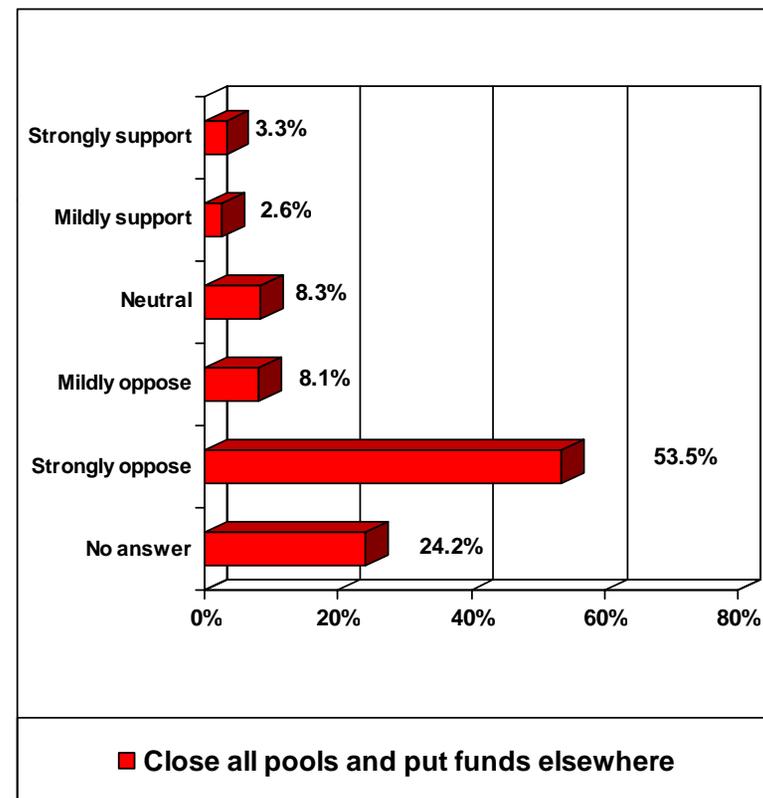
- This option received less support than Options 1, 2, 3 or 4.



Opinions for Various Pool Options in Richardson

Option 6 – Close All Pools and Put Funds Elsewhere

- This option received strong opposition.



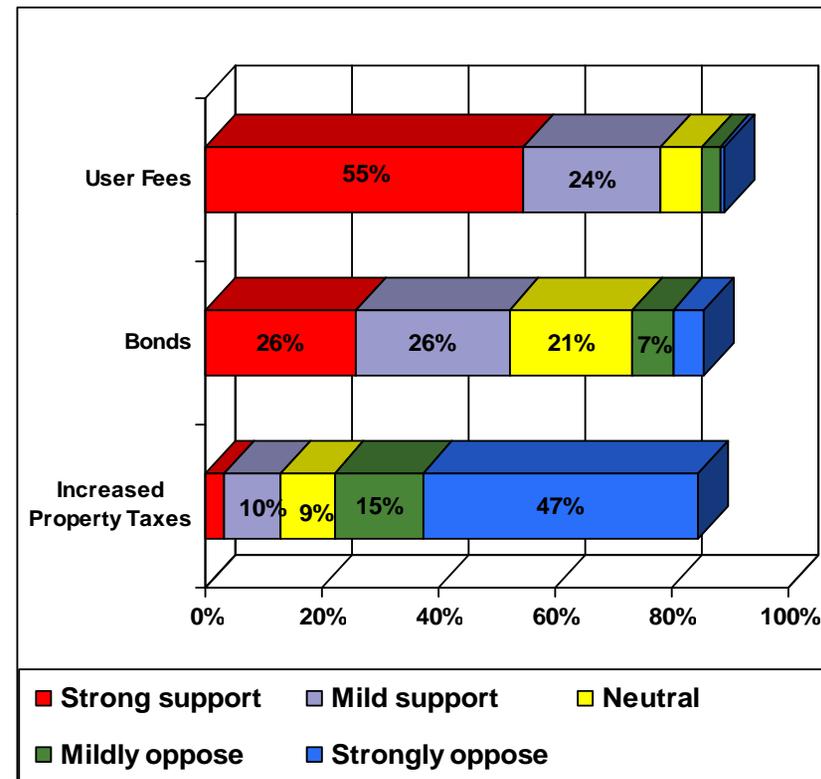
Preferred Amenities for an Indoor Aquatic Center or Improved Existing Pools

<u>Amenity</u>	<u>Priority Score</u>
1. A facility that is indoor	21.15
2. Fitness or lap swimming area	12.05
3. Zero depth entry	9.54
4. Flowing river for tubing and floating	8.76
5. Play area with water features	7.19
6. A facility that is outdoor	6.99
7. Water spray ground	4.90
7. Olympic sized 50 meter pool	4.48
7. Beach area	4.30
10. Picnic area	3.62
11. Diving area	3.19
12. Wave machine	2.70
13. Wading pool	2.62
14. Children's dry playground area nearby	2.50
15. Sand volleyball	2.02

- Respondents were asked to rate in rank order the amenities they preferred to have in an indoor aquatic center or improved existing pools in Richardson.
- NSR calculated a weighted score for each facility rated. A #1 or most important received a weight of 40%, #2 most important a weight of 25%, #3 most important 20%, #4 most important 10% and #5 most important 5%.
- The table at left shows the priority of amenities in rank order that are most needed.
- This chart will greatly assist in developing the aquatic master plan priorities.

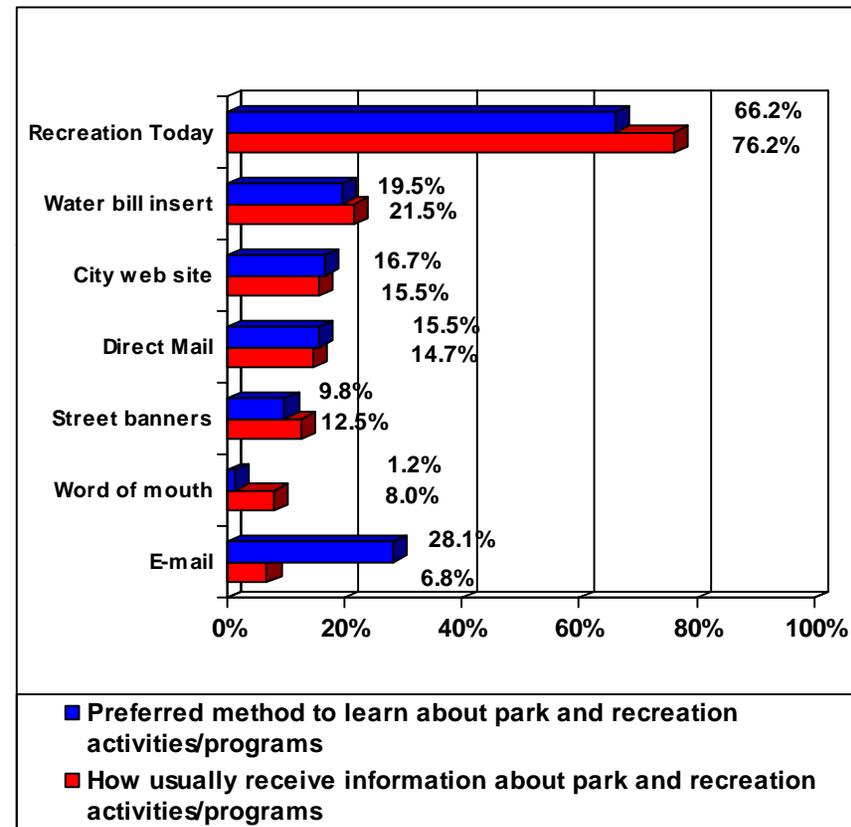
Funding Options for New Parks and Facilities and/or Additions to Existing Parks and Facilities

- Survey respondents are in favor of funding new and/or additions to parks and facilities with user fees and bonds.
- Few respondents support increased property taxes for funding mechanisms.



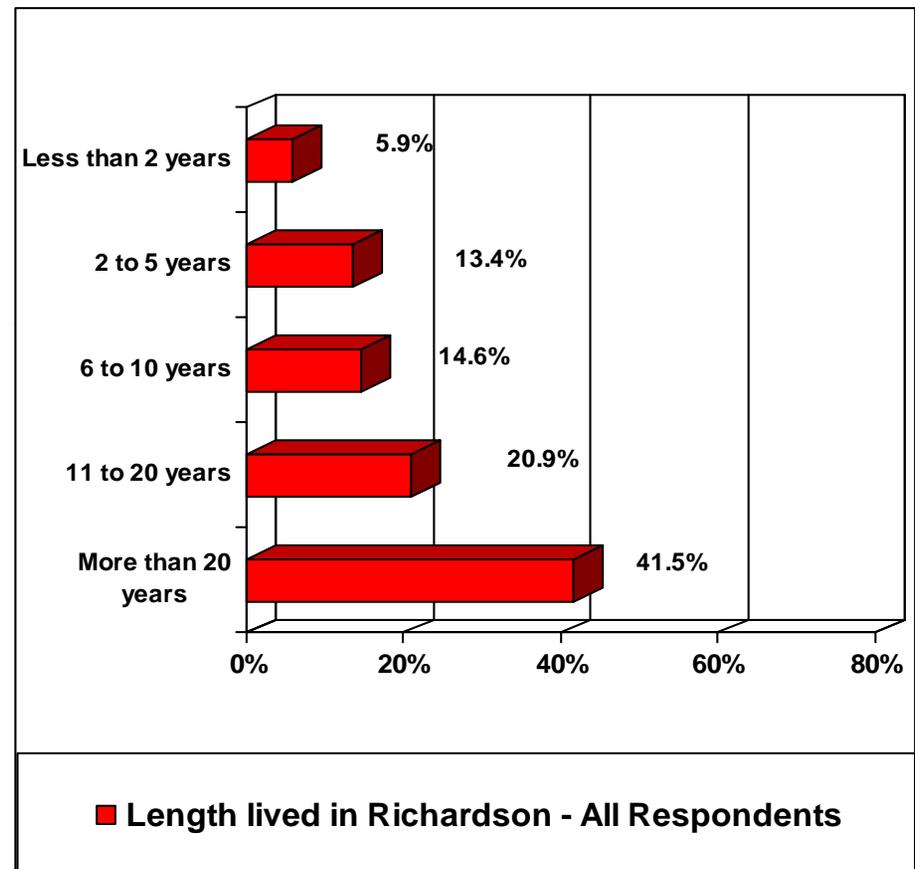
Park and Recreation Activity/Program Information

- Most residents find out about park and recreation programs and activities through Recreation Today, the water bill, City web site and flyers/direct mail.
- Preferred methods of receiving information varied little from how citizens are currently learning about park and recreation activities and programs, except 28% of respondents would like to get information via e-mail.
- *It is important for the City to utilize multiple methods to communicate information to citizens about recreation opportunities in the city for maximum exposure.*



Demographics

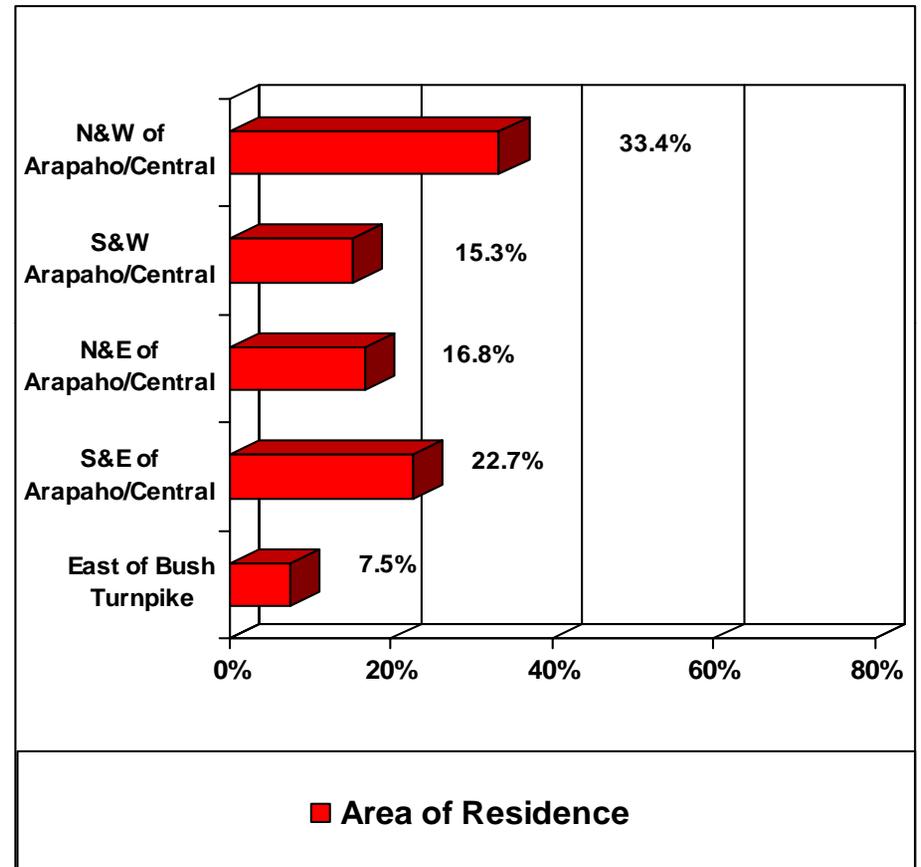
- The typical respondent has lived in Richardson 18 years, has a household size of 2.8 persons and is 53.3 years of age.
- 40% of households have children residing within their household.
- Age groups of children represented in the surveyed households:
 - 0 to 5 years old 18.5%
 - 6 to 10 years old 17.9
 - 11 to 13 years old 10.8
 - 14 to 18 years old 10.5
 - No children in house 59.7
- Head of household age of respondents:
 - Under 35 10.7%
 - 35 to 44 22.7
 - 45 to 54 21.1
 - 55 to 64 18.9
 - 65+ 23.5
- 89% own their home and 4% rent.

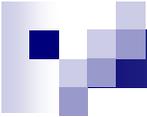


Source: National Service Research, Mail and Online Survey of 665 Richardson Residents, October 2009

Demographics

- The geographic distribution of the respondents is representative of the city's population.





National Service Research

(Background/Contact Information)

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National Service Research (NSR), founded in 1989, is a full-service market research consulting firm and conducts market studies for the public and private sector. NSR conducts various types of consumer and business research including focus groups and surveys nationwide. NSR's owner and founder, Andrea Thomas, has twenty-two years of professional market research experience.

City of Richardson, Texas

Aquatic Master Plan

November 2009

NEED LOGO

MHS Planning & Design, LLC

Contact: Mark Spencer
212 W. 9th St.
Tyler, TX 75701



COUNSILMAN • HUNSAKER
The Ultimate Aquatic Advantage

Counselman-Hunsaker

Contact: Kevin Post
10733 Sunset Office Dr
Suite 400
St. Louis, MO 63127

Table of Contents

Executive Summary	5
Section 1: Introduction	9
Methodology	9
Project Scope	9
Existing Facilities	9
Comparison Cities	12
Section 2: Population Characteristics	15
Population	16
Mosaic Types	17
Income	20
Age Distribution	22
Section 3: Aquatic Trends	27
Section 4: Area Provider Analysis	39
Aquatic Providers 0-10 Miles	42
Aquatic Providers 10-15 Miles	50
Aquatic Providers 15-20 Miles	64
Aquatic Providers 20-25 Miles	69
Section 5: Development Concepts	85
APPENDIX A: REFERENCE	i

Executive Summary

In 2008, the City of Richardson, Texas, just 13 miles north of Dallas, was ranked the 18th best place to live in the United States by *Money* magazine. This ranked Richardson the 4th best place to live in Texas. In 2009, *Business Week's* annual report on the "Best Places to Raise Kids" ranked Richardson 2nd in Texas. Richardson is one of the densest high-tech areas in the nation, with Telecom Corridor, where Nortel (among other companies) houses its U.S. headquarters. Richardson is also home to four DART rail stations and new luxury condominium, apartment, and town home developments.¹



During its 50 years, the Richardson Parks and Recreation Department has provided families greater quality of life through first class programs that have become a tradition and a source of pride within the community. This is evident by greater real estate values and first class economic development, proving that Richardson is not only a great host to business and industry, but a great place to call home.²

Aquatic recreation offers five existing swimming pools in the city, including Arapaho Pool, Canyon Creek Pool, Cottonwood Pool, Glenville Pool, and Terrace Pool. The purpose of this Aquatic Master Plan is to provide the viability for the design and construction of new aquatic centers in the City of Richardson.

Demographic analysis for the City of Richardson reveals that the population base is projected to increase from 100,500 to 106,300 by 2013. Income analysis for the city is 35% higher than the national average regarding resident per capita income and 52% higher regarding median household income. As a percentage of population, the 0-19 age group is right at the national average. Due to higher percentages of people in age groups 35 to 64, the median age for the city is higher than the national average (37.9 compared to 36.7).³

Aquatic centers have many opportunities to make revenue-producing pools through competitive, recreation, and fitness programming by utilizing a diverse variety of lessons, fitness classes, and special events to increase attendance and revenue. Both water exercise and water therapy programs have grown substantially over the years due to aquatic fitness being less strenuous than land fitness. The sustained popularity of teaching the community to swim has led to significant numbers of swim team and Masters swimmers nationwide. Swim meets and championships can bring in a large number of swimmers to the area, plus their families, coaches, and officials. Additionally, water polo tournaments, synchronized swimming, and diving meets are also possible. Marketing user groups will be imperative to the success of the facility.

Aquatic Tool Box

The consultants developed seven concepts for the City of Richardson to consider.

DEVELOPMENT CONCEPT COMPARISON	
<p>Op. of Proj.Cost \$688,000</p> 	<p>Option 1 Splash Pad (Pad) –Interactive water play element with no standing water.</p>
<p>Op. of Proj.Cost \$3,220,000</p> 	<p>Option 2 Small Neighborhood Family Aquatic Center (SNFAC) – Outdoor multi-purpose recreation pool.</p>
<p>Op. of Proj.Cost \$4,540,000</p> 	<p>Option 3 Neighborhood Family Aquatic Center (NFAC) –Outdoor multi-purpose recreation pool with short course competition pool.</p>
<p>Op. of Proj.Cost \$9,000,000</p> 	<p>Option 4 Medium Family Aquatic Center (MFAC) –Outdoor recreation pool and a separate short course competition pool.</p>
<p>Op. of Proj.Cost \$12,490,000</p> 	<p>Option 5 Large Family Aquatic Center (LFAC) – Outdoor recreation pool and a long course competition pool.</p>
<p>Op. of Proj.Cost \$13,960,000</p> 	<p>Option 6 Indoor Aquatic Center (Indoor) – Indoor competition and recreation pool.</p>
<p>Op. of Proj.Cost \$29,820,000</p> 	<p>Option 7 Indoor 50 Meter Competition Pool (Venue) – Indoor 50 meter pool, dive well with platform diving, and an indoor leisure pool.</p>

Section 1: Introduction

Methodology
Project Scope
Existing Facilities

Section 1: Introduction

The City of Richardson retained MHS Planning & Design LLC, and Counsilman-Hunsaker to provide aquatic facility options and master planning strategies that would help the city make an educated decision before moving forward with the construction and operation of new aquatic centers.

Methodology

The plan is based on extensive research through the following processes:

- Met with representatives of the City of Richardson.
- Toured the site and region.
- Investigated area aquatic providers to understand the amenities, programs, and fees of those facilities.
- Identified potential user groups through demographics of the market area.
- Reviewed national trends in recreation, fitness, therapy, and aquatics to determine amenities and programs.

Project Scope

The scope of the project is to:

- Recommend aquatic facilities that will meet current and future community needs for health and safety.
- Make projections regarding project costs.
- Determine a master plan.

Existing Facilities

1. Arapaho Pool
711 W. Arapaho Rd.
Richardson, TX

Richardson Pool Data 2009						
Pool	Patron Capacity	Days Open	Water Capacity	Income	Direct Expenses	% of Cost recovery
Arapaho	400	91	309,000	\$79,579	\$148,560	53%

2. Canyon Creek Pool
600 Aspenwood Dr.
Richardson, TX

Richardson Pool Data 2009						
Pool	Patron Capacity	Days Open	Water Capacity	Income	Direct Expenses	% of Cost recovery
Canyon Creek	180	76	159,000	\$44,179	\$123,800	36%

3. Cottonwood Pool
1321 W. Belt Line Rd.
Richardson, TX

Richardson Pool Data 2009						
Pool	Patron Capacity	Days Open	Water Capacity	Income	Direct Expenses	% of Cost recovery
Cottonwood	235	76	194,000	\$19,925	\$111,420	18%

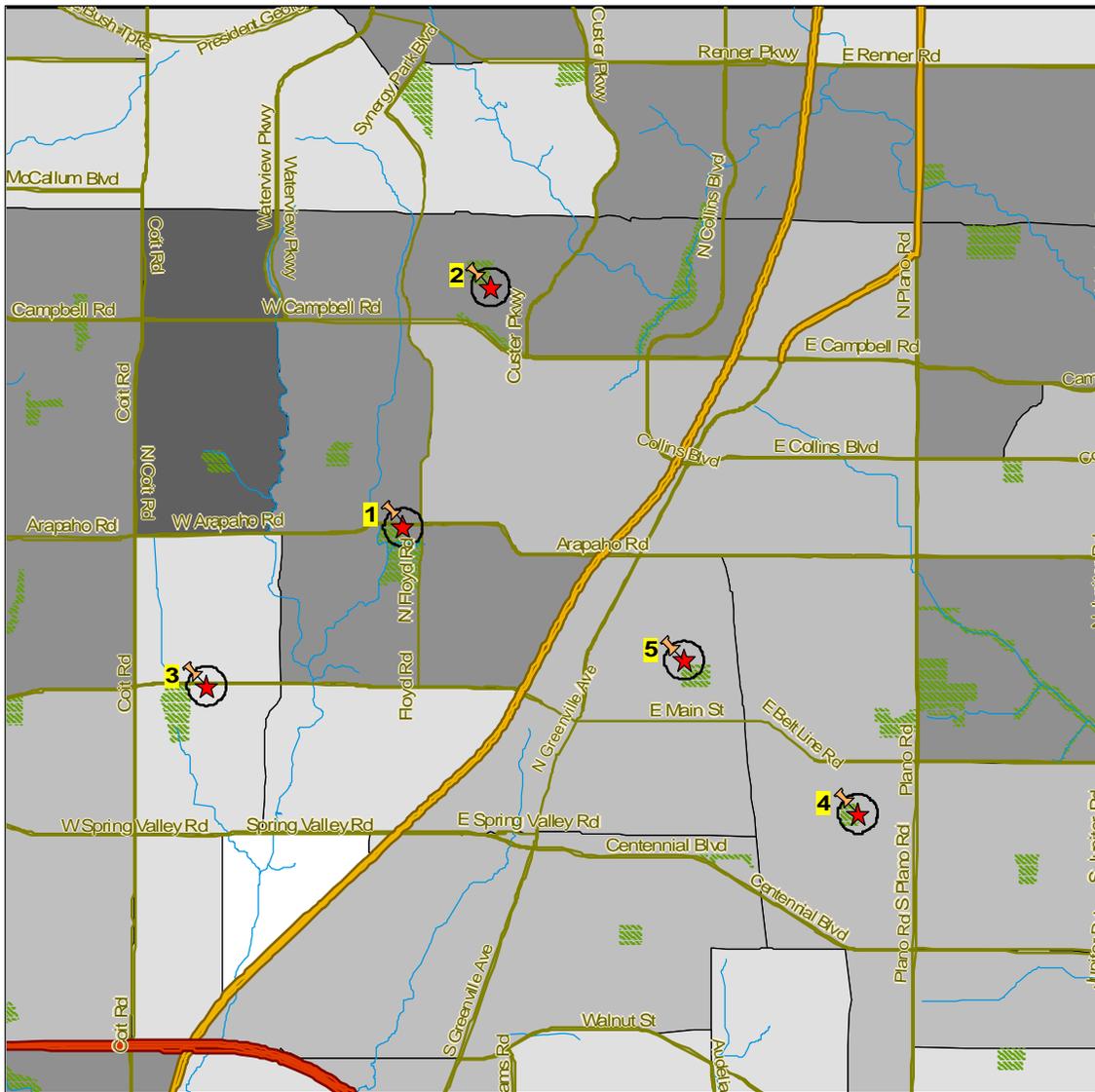
4. Glenville Pool
 500 S. Glenville Dr.
 Richardson, TX

Richardson Pool Data 2009						
Pool	Patron Capacity	Days Open	Water Capacity	Income	Direct Expenses	% of Cost recovery
Glenville	188	76	163,000	\$35,647	\$117,610	30%

5. Terrace Pool
 300 N. Lois Lane
 Richardson, Tx

Richardson Pool Data 2009						
Pool	Patron Capacity	Days Open	Water Capacity	Income	Direct Expenses	% of Cost recovery
Terrace	120	76	57,000	\$27,983	\$123,800	23%

Map of City of Richardson, TX, Existing Aquatic Facilities



Source: Demographics Now

Comparison Cities

In 1990, the National Recreation and Parks Association published a recommendation for the number of public pools needed in any U.S. community based on population alone: one pool for every 20,000 residents.⁴ Although this never became the national standard due to variables such as other providers, income, different types of pools, and desired programming by various age groups, the following chart shows the number of public pools from various cities with populations between 100,000 and 150,000. From this research it was found that, on average, these cities have approximately four municipal pools serving 56,612 residents per pool. In analyzing a comparison to these cities, the City of Richardson has five municipal pools serving 20,100 residents per pool.

POOLS BY POPULATION			
City	Population	Municipal Pools	Residents per Pool
Eugene, OR	145,981	3	48,660
Hampton, VA	145,646	7	20,807
Torrance, CA	145,516	1	145,516
Evansville, IN	121,582	9	13,509
McKinney, TX	115,600	3	38,533
Independence, MO	109,159	1	109,159
Richardson, TX	100,500	5	20,100
AVERAGE	126,283	4	56,612

Source: Counsilman-Hunsaker

Section 2: Population Characteristics

Population

Income

Age Distribution

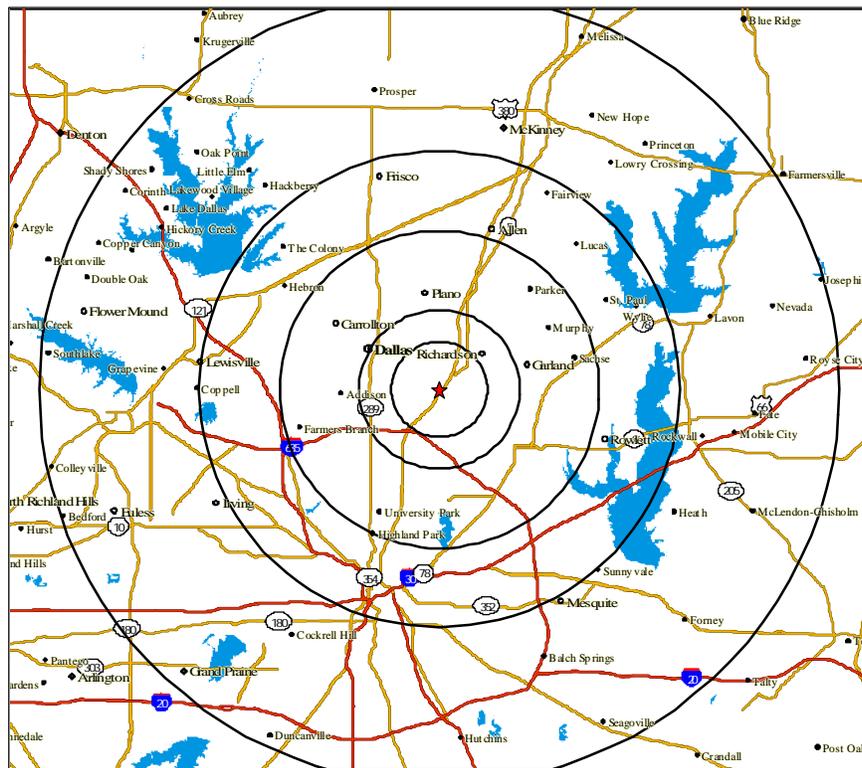
Section 2: Population Characteristics

Factors that can influence attendance of aquatic centers include projections for growth/decline of population, income levels, and age groups. Market studies are used to predict how relevant products, services, and fees are to residents. The primary market area was defined as a 25-mile radius, originating from the center of the city. The service area for each site is assumed as a 25-mile radius defined by the distance a patron will travel on a regular basis to a given activity. Training and competition users will customarily drive farther to use a facility than will recreation and fitness users. Thus, a study of demographic patterns in the area is helpful in projecting usage rates. The resident market area has been divided into the following distance rings.

Distance From Site

- 0 to 3 Miles
- 3 to 5 Miles
- 5 to 10 Miles
- 10 to 15 Miles
- 15 to 25 Miles

Map of Richardson, TX, Distance Rings



Source: Demographics Now

Population

The following table presents a summary of market area population with distance rings surrounding the center of the city. The 2000 Census was used to estimate the population for 2008 and projections for 2013. The population base for the city is projected to increase from 100,500 to 106,300 by 2013. Distance rings analyzed according to radii surrounding 25-miles of the city are projected to increase in population as well.³

MARKET AREA POPULATION BY DISTANCE										
Radius	Population						Average Annual Change			
	2000		2008		2013		2000-2008		2008-2013	
	Number (000's)	Percent of Total	Number (000's)	Percent of Total	Number (000's)	Percent of Total	Number (000's)	Percent	Number (000's)	Percent
0 to 3 Miles	114.4	3.7%	119.6	3.2%	122.7	3.0%	0.6	0.6%	0.6	0.5%
3 to 5 Miles	225.7	7.3%	236.0	6.4%	248.6	6.1%	1.3	0.6%	2.5	1.0%
5 to 10 Miles	829.6	26.8%	922.5	24.9%	994.3	24.4%	11.6	1.3%	14.4	1.5%
Subtotal	1,169.7	37.8%	1,278.1	34.5%	1,365.7	33.5%	13.6	1.1%	17.5	1.3%
10 to 15 Miles	692.5	22.4%	895.2	24.2%	1,010.7	24.8%	25.3	3.3%	23.1	2.5%
15 to 25 Miles	1,229.4	39.8%	1,528.6	41.3%	1,699.2	41.7%	37.4	2.8%	34.1	2.1%
Subtotal	1,921.9	62.2%	2,423.8	65.5%	2,709.8	66.5%	62.7	2.9%	57.2	2.3%
Total (0-25 Miles)	3,091.6	100.0%	3,702.0	100.0%	4,075.5	100.0%	76.3	2.3%	74.7	1.9%
Richardson, TX	91.7		100.5		106.3		1.1	1.2%	1.2	1.1%

Source: Demographics Now

Mosaic Types

Of the population in Richardson, 21.5% participate in swimming. This is well above the national average of 18.5%.³ The adjacent table and following definitions describe lifestyle classifications of Richardson residents as compared to the U.S. national averages.³

MOSAIC TYPES		
	Richardson, TX	U.S.
Affluent Suburbia	33%	13%
Upscale America	18%	11%
Small Town Contentment	10%	11%
Metro Fringe	9%	11%
American Diversity	7%	10%
Rural Villages & Farms	1%	10%
Aspiring Contemporaries	13%	9%
Struggling Societies	4%	7%
Urban Essence	5%	6%
Blue-Collar Backbone	1%	6%
Remote America	0%	6%
Varying Lifestyles	0%	1%
	100%	100%

Source: Demographics Now

Affluent Suburbia (33%) represents the wealthiest households in the nation, outranking all other Mosaic Types in terms of household income, home value, and educational achievement. Concentrated in exclusive suburban neighborhoods, these households are predominantly college educated, typically working in managerial and executive positions with six-figure-plus incomes. They enjoy fashionable homes and belong to country clubs, travel abroad, and go sailing, golfing, and skiing. Many are culture buffs who attend the theater, art shows, dance performances, and concerts.

Upscale America (18%) is comprised of college educated executives and white-collar professionals living in metropolitan sprawl, earning upscale incomes. They enjoy large homes and very active lifestyles. Recreation pursuits include jogging, biking, and swimming. They are active in community affairs, business clubs, environmental groups, and art associations.

Small-Town Contentment (10%) represents middle-aged and upper middle-class families living in satellite towns and cities. With a split between college degrees and moderate education, they are employed in well-paying white-collar, blue-collar, administrative, and service professions. While living right outside major metros, these households live in nice homes and enjoy tennis, swimming, hiking, and camping. They commute to nearby cities to enjoy sporting events, nightclubs, and upscale malls.

Metro Fringe (9%) is a collection of racially mixed, lower-middle-class located primarily in satellite cities. Many of the group's households consist of young singles and couples who work at blue-collar and service industry jobs. They tend to live in older single-family homes, semidetached houses, and low-rise apartments. Overall, this group is relatively active in soccer and softball, rollerblading and skateboarding, go-carting and video gaming.

American Diversity (7%) is a contrasting ethnic mix of middle-aged couples, singles, and retirees. With a few exceptions, this Mosaic Type consists of households with average educations and middle-class incomes from blue-collar and service industry jobs. Many are older Americans who have already exited the workplace. They tend to have unassuming lifestyles, read books and newspapers, go to movies and plays, and socialize through fraternal orders and veterans clubs.

Rural Villages and Farms (1%) represent America's agricultural and mining communities, filled with middle-class families and couples of varied ages. Most of these households are married and high school educated. They maintain tranquil lifestyles in unpretentious houses and comfortable mobile homes. They share a fondness for fishing, hunting, camping, motor sports, and attending country-western concerts. Many residents are do-it-yourselfers and enjoy woodworking and needlework.

Aspiring Contemporaries (13%) are filled with upward strivers. These households tend to be young Generation Xers between 18 and 34 years old, ethnically diverse (about 40 percent are minorities) and unattached (about two-thirds are single or divorced). Yet despite traditional barriers to affluence,

members of these metropolitan types are already solidly middle class. Many live in relatively new homes or apartments valued at more than the national average—a reliable sign of upward mobility. They are culture buffs who like to see plays, movies, comics, and live bands.

Struggling Societies (4%) symbolize the disadvantaged and uneducated. With incomes half the national average and nearly a third never completing high school, they are consigned to low-level jobs in manufacturing, health care, and food services. Many of these residents are young minorities, students and single parents trying to raise families on low incomes and tight budgets. Without much discretionary income, their activities are limited and recreation pursuits include playing basketball; volleyball; skateboarding; and listening to Spanish, Mexican, and urban contemporary music.

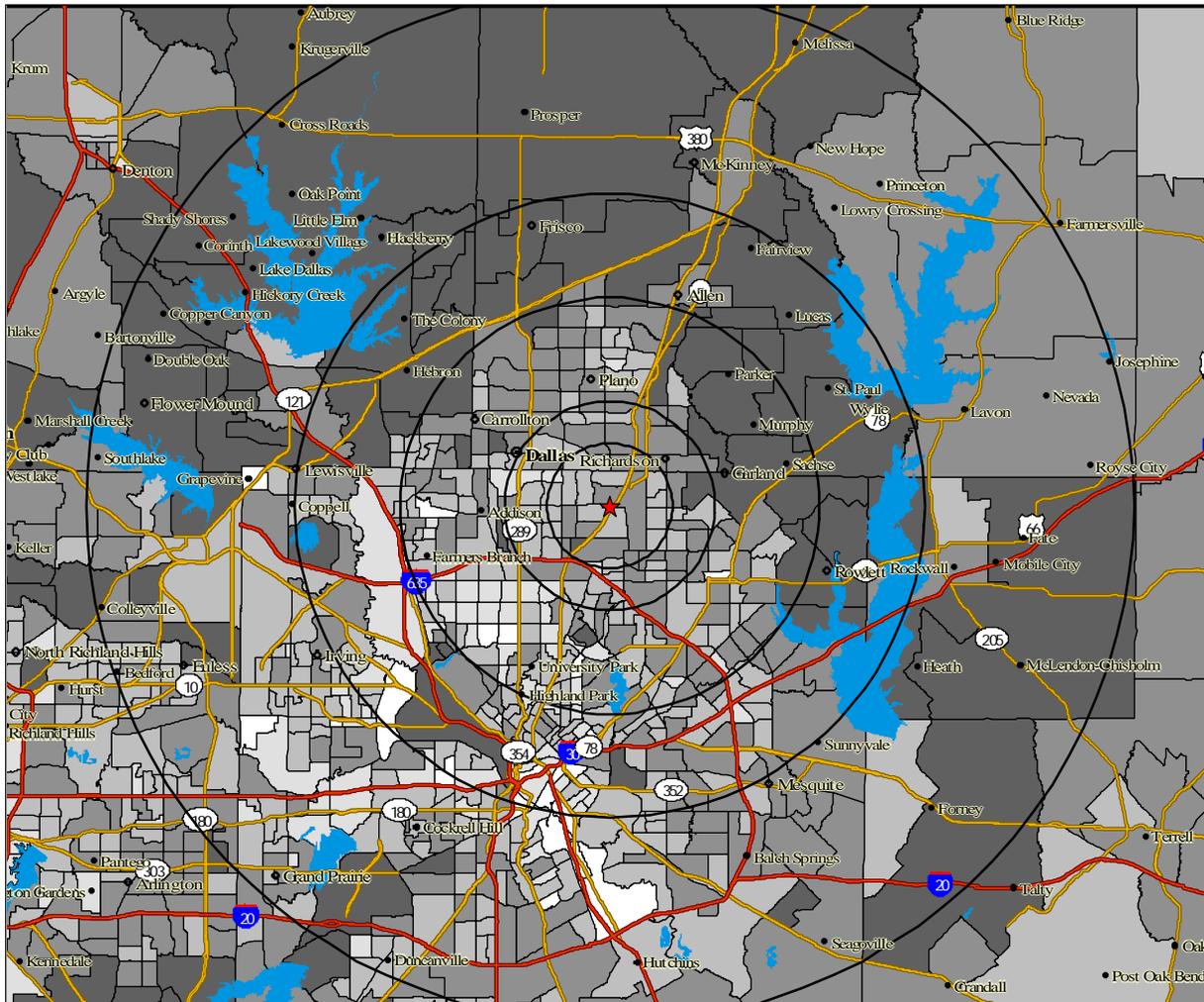
Urban Essence (5%) makes up the nation's least affluent group, a collection of relatively young minorities living in older apartments. More than half the households consist of African-Americans and Hispanics. Many are single or single parents working at entry-level jobs in service industries. With their low education levels and household incomes, residents lead unpretentious lifestyles. Many with above-average households spend their leisure time playing baseball, basketball, football, and listening to jazz and urban contemporary music.

Blue-Collar Backbone (1%) includes above-average proportions of both old and young residents, families and singles, homeowners and apartment renters. Most residents live in older outlying towns and cities, and work at blue-collar jobs in manufacturing, construction, and retail trades. Their lifestyle reflects a working-class sensibility. With relatively few entertainment options, due to their remote location or lack of discretionary income, their most popular recreation activities include team sports, fishing, and veterans clubs.

Remote America (0%) reflects heartland lifestyles, a mix of farming and small industrial communities mostly located in the nation's midsection. Working-class couples and families in this group tend to be employed in agriculture and blue-collar jobs that pay modest wages. The median home value is about half the national average, and a significant number of residents live in mobile homes. No group has a lower population density, and few have higher rates for outdoor-oriented lifestyles. Households spend their leisure time fishing, hunting, hiking, and horseback riding.

Varying Lifestyles (0%) live in group quarters such as the military and university dorm life. Those who have the ability are more likely than average Americans to visit museums, zoos, and state fairs. They like to stay active in aerobic exercise, hiking, bowling, tennis, baseball, and volleyball. They are frequent travelers who vacation abroad as well as within the United States.

Map of Population: Richardson (2009)



Source: Demographics Now

Key:

	Census Tracts
	Above 9700
	5400 to 9700
	3000 to 5400
	1650 to 3000
	Below 1650
	No Data

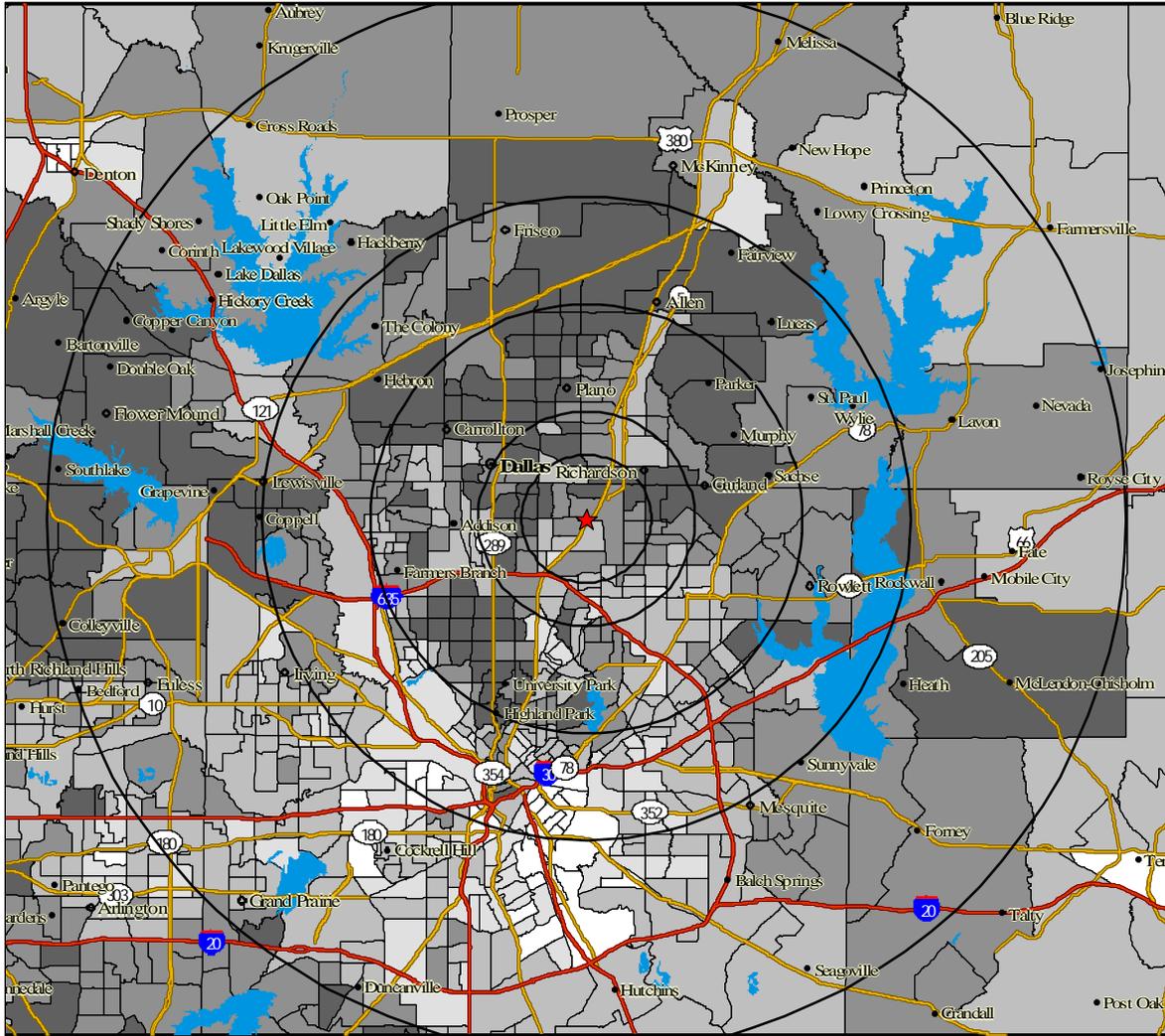
Income

To a certain degree, the likelihood of residents to use city recreation facilities depends on their ability to pay admission and program fees. In the following table, the U.S. national average is set at 1.00. Index refers to the percentage higher or lower than the national average. Income analysis for the City of Richardson is 35% higher than the national average regarding resident per capita income and 52% higher regarding median household income. Median household income per distance rings surrounding 25-miles of the city are above the national average.³

MARKET AREA INCOME				
Radius	Per Capita Incomes		Median Household Incomes	
	Dollars	Index	Dollars	Index
0 to 3 Miles	\$30,769	1.16	\$67,169	1.28
3 to 5 Miles	\$34,306	1.30	\$63,812	1.21
5 to 10 Miles	\$38,370	1.45	\$71,533	1.36
10 to 15 Miles	\$34,796	1.31	\$69,559	1.32
15 to 25 Miles	\$30,379	1.15	\$64,962	1.24
Richardson, TX	\$35,664	1.35	\$79,836	1.52
Total U.S.	\$26,464	1.00	\$52,599	1.00

Source: Demographics Now

Map of Median Household Income: Richardson (2009)



Source: Demographics Now

Key:

	Census Tracts
	Above 97000
	62000 to 97000
	40000 to 62000
	25500 to 40000
	Below 25500
	No Data

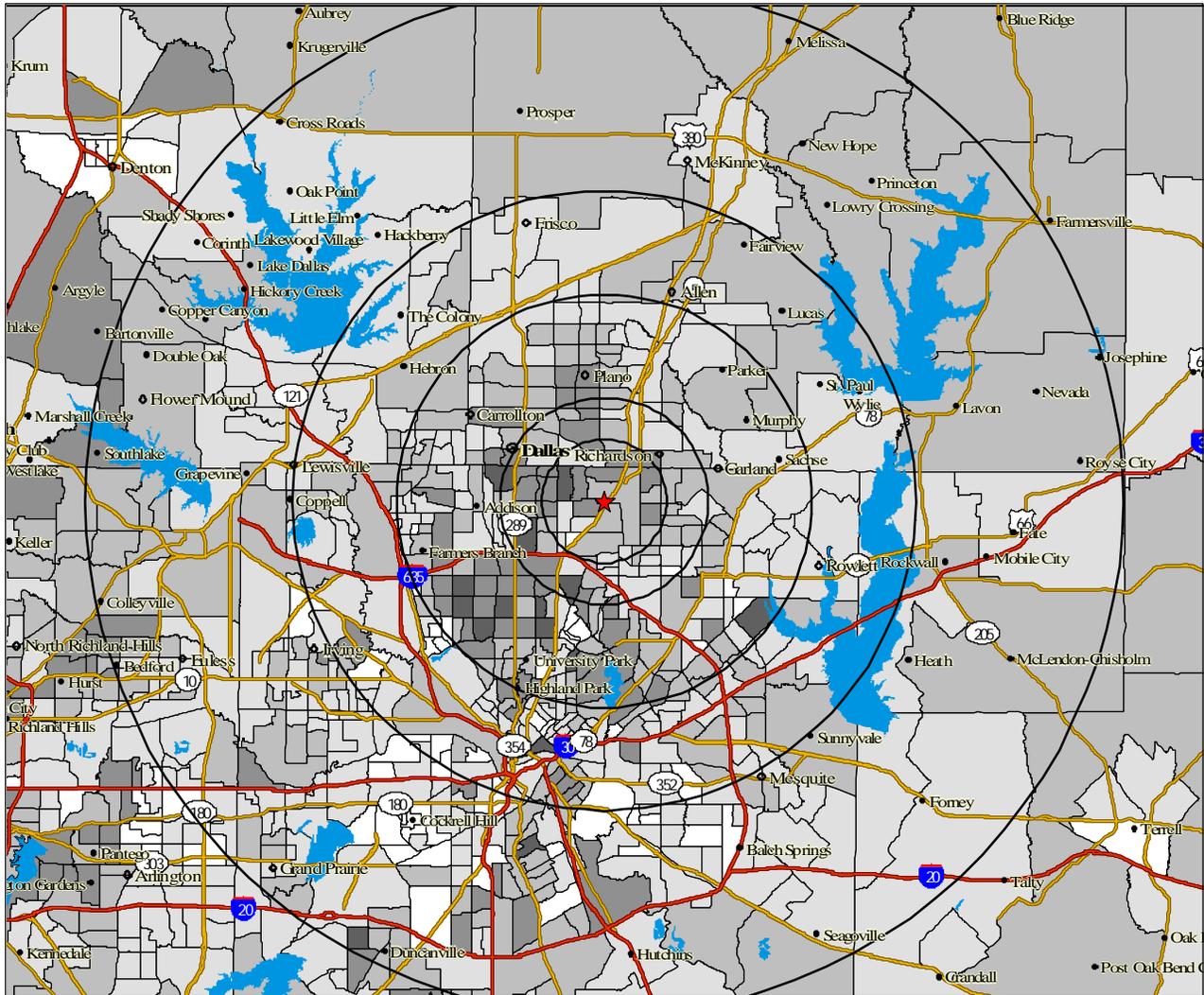
Age Distribution

Age distribution is another population characteristic used to determine the type and level of use of any type of program. While younger age groups are more likely to engage in competitive and recreational activities, middle-aged and older patrons enjoy wellness and fitness programming. The following table provides the number of residents and the percentage of total population for each age group compared to the U.S. column, which identifies the national average. The 0-19 age group, as a percentage of population, is right at the national average in the City of Richardson (27.1%). The median age for the city is higher than the national average (37.9 compared to 36.7) due to higher percentages of people in age groups 35 to 64.³

MARKET AREA AGE DISTRIBUTION													
Age Groups	0-3 Miles		3-5 Miles		5-10 Miles		10-15 Miles		15-25 Miles		Richardson, TX		Total U.S.
	#	%	#	%	#	%	#	%	#	%	#	%	
Under 5	8,677	7.3%	17,107	7.2%	71,496	7.7%	78,303	8.7%	132,719	8.6%	6,877	6.8%	6.8%
5 to 9	8,421	7.0%	15,690	6.6%	67,219	7.3%	73,387	8.2%	128,702	8.3%	6,909	6.9%	6.6%
10 to 14	8,374	7.0%	14,043	5.9%	62,205	6.7%	65,465	7.3%	120,301	7.8%	6,996	7.0%	6.7%
15 to 19	7,863	6.6%	14,363	6.1%	56,935	6.2%	60,606	6.8%	111,631	7.2%	6,412	6.4%	7.0%
Subtotal	33,335	27.9%	61,203	25.9%	257,855	28.0%	277,761	31.0%	493,353	31.8%	27,194	27.1%	27.1%
20 to 24	7,725	6.5%	17,256	7.3%	57,310	6.2%	57,775	6.5%	100,166	6.5%	5,904	5.9%	7.0%
25 to 34	15,962	13.3%	37,360	15.8%	143,261	15.5%	153,330	17.1%	223,467	14.4%	12,718	12.7%	13.3%
35 to 44	18,251	15.3%	36,523	15.5%	155,865	16.9%	154,078	17.2%	240,792	15.5%	16,095	16.0%	14.0%
45 to 54	17,635	14.7%	36,069	15.3%	137,192	14.9%	118,754	13.3%	212,331	13.7%	15,735	15.7%	14.5%
55 to 64	13,854	11.6%	26,195	11.1%	87,973	9.5%	72,552	8.1%	142,112	9.2%	12,011	11.9%	11.2%
65 to 74	7,844	6.6%	12,865	5.5%	46,049	5.0%	36,023	4.0%	71,045	4.6%	6,646	6.6%	6.7%
75 to 84	3,636	3.0%	5,973	2.5%	26,160	2.8%	17,327	1.9%	55,321	3.6%	3,052	3.0%	4.3%
85 and over	1,329	1.1%	2,608	1.1%	10,890	1.2%	7,647	0.9%	12,650	0.8%	1,157	1.2%	1.9%
TOTAL:	119,571	100.0%	236,052	100.0%	922,555	100.0%	895,247	100.0%	1,551,237	100.0%	100,512	100.0%	100%
Median Age	36.6		35.9		35.4		34.1		33.6		37.9		36.7

Source: DemographicsNow

Map of Median Age: Richardson (2009)



Source: Demographics Now

Key:

	Census Tracts
	Above 48
	41.5 to 48
	35 to 41.5
	28.5 to 35
	Below 28.5
	No Data

Section 3: Aquatic Trends

Lessons & Fitness User Groups

Aquatic Therapy User Groups

Recreation User Groups

Competitive User Groups

Section 3: Aquatic Trends

When developing tomorrow's vision for aquatic programming, it is important to understand traditional uses and trends in aquatic programs. Trends evolve in the aquatic industry as swimming expectations evolve. Multi-generational facilities provide bodies of water for lessons and fitness, wellness needs, competitive needs, and family recreation needs with separate spaces for different age groups. The old theory of building a rectangular pool and expecting everyone to jump in is unrealistic for tiny tots, families, accessibility populations, and seniors. Often, multiple bodies of water are necessary to accommodate greater representation from the entire community.

While national surveys continually rank swimming as a favorite recreational sport, today's aquatic centers incorporate recreation swimming and wellness pools to augment revenue of competitive swimming, thereby creating multi-generational facilities through shared expenses. Contemporary aquatic centers are fully ADA accessible⁵ where everyone can benefit from aquatic activities. As more athletes cross train with water fitness components and more doctors recommend water rehabilitation for injured, obese, diabetic, and aging patients, multi-generational aquatic centers are inclusive of the entire community.

Site Selection

Generally, the market area for a municipal aquatic center is a 25-mile radius. Market penetration for attendance tends to drop off for every five miles of distance surrounding the facility. Guests are more likely to patronize businesses close to home, frequent a facility that is easy to find, and typically stay longer according to the number of attractions, while the length of stay correlates with per capita spending. Depending on the final site chosen, existing topography, trees, utilities, and proximity to roadways will dramatically impact the use of the site and in some cases will limit the amount of future development. Site priority should be given to sites that offer:

- Physical accessibility with an emphasis on proximity to public transportation, crosswalks, and major streets.
- Visibility such that a civic presence can be achieved.
- Land use compatibility with adjacent property and good relationships with other aquatic providers.
- Adequate size to support the intended program.
- Few development limitations.
- City ownership or site control that can be achieved easily and at a low cost
- Room for expansion.

Schedules and Fees

Ultimately, aquatic centers depend on repeat business to survive. An affordable experience, both in terms of admission and spending, depends on what the market will bear. The top rate is the general admission rate, which is usually charged to adults over 18. In addition to the general admission rate, there are a number of discounted rates, including youth and senior general admission rates, group rates, promotional rates, and season passes for individuals and families. In order to analyze revenue, the following chart is a typical industry evaluation of daily admissions, season pass memberships, and concession percentages.

General Admission	70%
Season Passes	25%
Food & Beverage	5%
Total	100%

Lessons and Fitness User Groups

The following describes national trends for four aquatic user groups: lessons and fitness, aquatic therapy, recreation swimmers, and competitive swimmers. The descriptions make evident the very different requirements for each of these aquatic user groups when planning and designing an aquatic facility.

Swim Lessons

According to the Centers for Disease Control, more than one in four fatal drowning victims are 14 years and younger. For every child who dies from drowning, another four receive emergency department care for nonfatal submersion injuries. Nonfatal submersions can cause brain damage that may result in long-term disabilities, including memory problems, learning disabilities, and permanent loss of basic functioning.⁶

Knowing how to avoid drowning is essential for children and adults, whether living in areas with natural bodies of water or simply being invited to pool parties. With more than one available pool in an aquatic center, lessons can be maximized where a large number of residents can be taught to swim. Ideally, water depth for instruction should accommodate young participants to stand comfortably in the water. Recreation pools easily provide this preference. Deeper competition pools offer moveable floors or other means of altering water depth for instructional purposes.



A well-run water lesson program is essential in introducing young swimmers to safe aquatic skills that can be used throughout their lives. By offering the community a comfortable, controlled aquatic environment, swimming and diving lessons can become an enjoyable learning experience. There are many different types of water safety lessons that can teach children not only how to swim and dive but how to survive in adverse water conditions. From small water craft instruction to drown-proofing, water safety is an integral part of any community. Many will go on to formal competitive aquatic programs in school or age-group swimming programs. Some will excel to become state champions. Benefits such as scholarship offers may occur when a swimmer or diver selects a college, which could lead to national level competition.

Drown-Proofing

The U.S. Consumer Product Safety Commission is aware of 74 cases of body entrapments, including 13 confirmed deaths between January 1990 and August 2004. The deaths were the result of drowning after the body or limb was held against the drain by the suction of the circulation pump. The incidents occurred in both residential and public settings.⁷

Subsequently, a new federal pool and spa safety law was signed by former President George W. Bush on December 19, 2007. The Virginia Graeme Baker Pool and Spa Safety Act requires all public pools and spas to have safety drain covers, and in certain circumstances, an anti-entrapment system.⁸ The goal of the law is to improve the safety of all pools and spas by increasing the use of layers of protection and promoting uninterrupted supervision to prevent child entrapments and drownings.

With many different programs to teach proper drown-proofing, some classes mimic the natural environment through instructor creativity (i.e., creating wave action with hands and arms to mimic river tides), while others simply require small children to memorize what they would do in a situation where



drowning is likely, and then enact memorized skills with an instructor present. Knowing how to avoid drowning is essential for children and adults, and even more so when living in areas where natural water bodies are prevalent.

Lifeguarding and CPR

Water rescue skills and CPR are typically taught to all lifeguards. However, teaching water rescue and CPR skills are integral to the community, as families are the true lifeguards of one another, whether at the beach or a backyard pool. Often, such courses are sponsored by the Red Cross, Ellis and Associates, and other providers of safety training.



Water Craft Instruction

Water crafts may capsize or experience mechanical difficulties. Drowning can occur when non-swimmers are aboard a craft that experiences difficulties of a mechanical or climatological nature. Though most aquatic centers, because of size constraints, cannot offer small water craft instruction, 50-meter pools can provide an excellent means to teach water safety skills in the event of an emergency.



School District Lesson Users

School districts are often valuable contributors to help efficiently program aquatic facilities. Potential programming might embrace swim lessons for elementary students, lifeguarding classes, physical education classes, therapy for high school athletes, and other joint partnership agreements to aid in directing area children to learn to swim. Aquatic sports (diving, water polo, synchronized swimming, underwater hockey, etc.) can contribute to the overall use of the facility as well as fitness use by faculty, special education therapy, and recreation. In addition, an aquatic facility may provide aquatic opportunities to pre-school children cared for by private daycare providers.



Aquatic Fitness

The more often the pool can be utilized for group activities for participants and spectators, the more likely the aquatic facility will be “alive” day in and day out. The types of activities that tend to draw a crowd are participatory, measurable, exciting, and often challenging – but not always so challenging that only the elite can participate. Activities can be tailored to different ages, sizes, and/or skill levels.



The industry has responded to the continued popularity of aquatic fitness by creating a wide range of activities with related devices and equipment for a greater diversity of water-based aqua exercise options. Aerobic dancing, walking, and running in shallow and deep-water environments, including current channels for walking against the current, are just a few of the choices available to people wishing to add less stressful elements of a cross-training regimen or even to use aqua aerobics for their entire fitness program. Additionally, businesses might sponsor or subsidize aquatic fitness as part of their employee wellness training discipline.

Aquatic fitness also remains one of the most popular forms of exercise among senior adults. Data taken from the National Center for Health Statistics shows lifetime expectancy is up 30 years since 1900.⁹ The older adult market spans four generations from the Progressive Era 1900-1928, Depression Era 1929-1939, WWII Era 1940-1945, and Baby Boomers 1946-1958. Gray power can be a large, affluent market willing to participate in water fitness, wellness programming, and other recreation opportunities. This diverse age group from 55 to 90+ includes sub-groups of which some are still working, some have children in college, and some are focusing on retirement, grandkids, and health. Consequently, seniors can be willing, enthusiastic participants if certain requirements are met. They typically feel uncomfortable in an environment with teens and generally respond better to strictly defined programming of well-structured activities such as water aerobics, arthritis water fitness, water walking, physical therapy, adult swim lessons, ‘Save a Life’ workshops, lap swimming, and Masters Swimming.

LIFETIME EXPECTANCY	
Year	Both Sexes
1900	47.3
1950	68.2
1960	69.7
1970	70.8
1980	73.7
1990	75.4
2000	77.0
2005	77.8

Source: National Ctr. For Health Statistics

Water Fitness Trends

Aquatic programming accommodates beginner lessons that graduate to higher levels of intensity and skill. The following provides a snapshot of popular aquatic fitness programs.

Walking and Jogging in Shallow and Deep Water: The current channel, attached to the leisure pool, provides water traveling at approximately three miles per hour, thus creating an opportunity for walking against the current as a non-programmed or programmed fitness activity. According to waterart.org, “30 minutes of walking and jogging in shallow and deep water is equal to 80 minutes of jogging on land.”

Water Aerobics: Remaining one of the fastest growing segments of the adult fitness industry, water aerobic workouts usually combine a variety of land aerobic techniques, including walking or running backwards and forwards, jumping jacks, mimicking cross-country skiing, and various arm movements. The workout may also incorporate equipment such as flotation devices and foam water weights.

Deep Water Aerobics: This type of water aerobics offers a muscular endurance workout in deep water that consists of simulated running in the deep end of the pool aided by a flotation device (vest or belt) where the participant is held in one location by a tether cord, essentially running in place.

Finning: This active swimming program requires training fins or flippers and utilizes fitness lap lanes of a pool. The kicking and pulling enhances conditioning and toning.

Liquid Gym: This aqua training workout can be as intense as desired with a personal trainer for the purpose of improved athletic performance.

Navy Seals: This aquatic class consists of Finning, water jogging, deep water aerobics, and scuba instruction.

Water Yoga: Warm water, as in a therapy pool, enhances asanas (stretching poses) to relax muscles and increase range of motion and balance. Pan flute music and dim lights deepen the experience. (yogaafloat.com)

Boot Camp: This amphibious program incorporates land and water fitness in a fast paced military-style interval training course with running in the pool, calisthenics, jumping jacks, pushups, and football-style drills.

Scuba and Snorkeling: These lessons are growing in popularity (possibly due to the increase of environmental professions) and typically start in swimming pools.

Scuba Rangers: Scuba and snorkeling skills are taught to kids 8 to 12 while using underwater flashlights, navigation compasses, and underwater photography.

Underwater Hockey: According to USOA Underwater Hockey, “The pool should be 25-meters by 15-meters and two-meters deep all the way across, but anything will do, even slopes (just change ends at half-time). Lead weights and three meters of rope can be used as goals, though the sound of the puck thunking into the back of a metal goal is very satisfying and should be experienced.”

Water Polo: Dimensions of a water polo pool are not fixed and can vary between 20 by 10 and 30 by 20 meters. Minimum water depth must be at least six feet. The goals are three meters wide and 90 centimeters high.

Kayak Polo: This sport involves water polo being played from kayaks. According to Carolina Kayak Polo, “It is difficult to describe the passion and excitement that is created when a kayak water polo game is in progress. The participants—speeding the length of the pool weaving through the opponent’s lines of defense and spinning in their kayaks to receive a pass—create a fast and thrilling event.”

Water Basketball: Ideated in 1986 by Italian teacher, Francesco Rizzuto, this sport is a mixture of basketball and water polo. When designing a pool, full court water basketball is more challenging when tile lines are encrypted into the floor of the pool.

Water Volleyball: Portable and floatable aqua water volleyball sets come complete with two net positions, two anchor bags, and a staked floating perimeter boundary.

Triathlons: These athletic competitions in which the contestants compete in three different events to find the best all-around athlete, typically consist of swimming, cycling, and running.

Kayak and Canoe Clubs: Due to the popularity of Extreme Sports, these clubs are growing in popularity.

Swim lessons, lap swimming, water jogging, deep-water aerobics, life saving instruction, diving lessons, survival swimming, synchronized swimming, water polo, underwater hockey, and scuba instruction can take place in a competitive/lesson/training pool, which frees up the recreation pool for swimmers who want to use the play features. Fitness classes are usually offered in the morning, at lunchtime, and in the early evening. Instructor information and/or training can be acquired through organizations such as the Arthritis Foundation; Red Cross; Aquatic Exercise Association; American Alliance for Health, Physical Education, Recreation and Dance (AAHPERD); and United States Water Fitness.

Aquatic Therapy User Groups

Aquatic therapy is rehabilitation performed in warm water and involves physical activity of exercise and motion in the presence of an aquatic therapist, also called an aquatic therapy provider. Warm water may increase the dynamics of blood pressure and blood and lymph circulation as well as decreasing swelling in skin and other tissues. Participation in an aquatic therapy program offers improvement in:

- Overall health and fitness
- Stretching capacity
- Range of motion
- Movement capabilities
- Coordination
- Physical stamina and endurance
- Swimming skills, safety, and abilities



Though many people who use aquatic therapy are enthusiasts of meditation or massage, some are looking for rehabilitating or improving a certain level of health. The Arthritis Foundation certifies instructors to teach arthritis aquatics. Many participants in these programs report reduced arthritis symptoms, including increased mobility and decreased pain and stiffness.¹⁰ New studies by the Aquatic Exercise Association

suggest that the management of diabetes can be facilitated by water exercise.¹¹ When moderate exercise is recommended for obese patients, the low-gravity qualities of aquatic therapy can be very appealing to this user group.

Water Wellness Seekers

Over the past several years, water exercise programs have multiplied in health clubs, pain clinics, and hospitals. Users include:

Injured Athletes: Athletic trainers and sports medicine physicians are prescribing aquatic therapy as a rehabilitative/preventive fitness program.

Post-Operative Patients and the Disabled: Includes patients with physical ramifications such as spinal dysfunctions, post-operative muscle toning, injuries, and arthritis.

Arthritis Sufferers: The Arthritis Foundation certifies instructors to teach arthritis exercises such as Rusty Hinges and Joint Effort.

Diabetics: Though still in the theoretical stages, studies suggest that water exercise and therapy, when applied to diabetics as a regular program, can reduce diabetes symptoms and assist insulin level management.

Aging Baby Boomers: Some 70 million strong, “boomers” invented the fitness movement and show no sign of abandoning it as they age, especially in warm water pools.

Obese Patients: More doctors are prescribing water wellness for overweight issues.

Pregnant Women: Effects of the low resistance of water exercise is soothing to this user group.

Meditation Enthusiasts: Fans of mind and body movements enjoy immersing in warm water pools to complete the tranquil state of meditation.

Key Components of Aquatic Therapy Centers

Aquatic therapy centers are growing in necessity for rejuvenation and social wellness for rehabilitation needs and developmental disorders. Colorful environments and interactive water is a stimulating, effective, and cathartic treatment, while specific design elements are ultimately inspired by the rehabilitative needs of patients. Key components include:

- Warm pool water capability with fast pool turnovers.
- High-quality water chemical treatment systems, including dual sanitization methods and an appropriately designed HVAC/DH system.
- Easy access from the parking lot to the locker rooms, pool deck, and into the pool.
- Ample space in locker rooms and wider pool deck for wheelchairs, walkers, dry and wet equipment, and dry-side therapy.
- In-water amenities such as perimeter railings, aerobic steppers, treadmills, underwater benches, and ramps.
- Flexible pool depths for multiple programmatic needs.
- Aesthetically pleasing and light-filled private spaces.

Recreation User Groups

Successful aquatic centers combine creative water play areas for various age groups in a safe, friendly atmosphere. While aquatic recreation has become much more age-defined, attractions have age limitations and appropriateness due to elements of thrill and capabilities. Tots enjoy shallow pools with gentle water features and play areas tucked securely out of the way of the more active areas. Once children grow out of the tot stage, they enjoy romping in



zero-depth recreation pools, making their adventurous way across lily pad walks, and climbing on participatory play features with “just-their-size” waterslides. Older children speed down flume and drop slides and enjoy larger water play structures. Teens enjoy gathering spots like action islands with access to deep water pools and more adventurous waterslides. Lazy rivers and current channels cater to most demographics while spas and lap lanes are geared towards adults.

Age Group	Recreational Aquatic Age-Group National Trends
Age 0-3	Tot Pool, Tot Slides, Gentle Spray Features
Age 4-7	Water Sprayground, Zero-Depth Pool, Participatory Play Features, Sand Play
Age 8-11	Water Walks, Large Play Structures, Full-Size Waterslides, Open Water
Age 12-16	Water Walks, Large Waterslides, Open Water, Lazy River, Gathering Places, Sand Volleyball, Mat Racer, Diving Boards
Age 17-22	Action Island, Intense Waterslides, Flow Rider, Mat Racer, Climbing Wall, Open Water, Sand Volleyball, Drop Slides, Diving Boards
Age 23-45	Zero-Depth Pool (to be w/children), Open Water, Spa, Sun Deck, Lap Lanes, Lazy River, Waterslides, Diving Boards
Age 46+	Spa, Sun Deck, Lap Lanes, Lazy River, Family-Friendly Waterslides
	Source: Counsilman-Hunsaker

Competitive User Groups

High School Users

High School varsity swimming is typically well-supported in most communities across the U.S.; however, many schools lack the ideal facility for training and competition. Because quality pool time is usually scarce in most areas, renting pool time from other area facilities can be daunting due to various needs and agendas, thus pool availability can diminish as facilities experience capacity. High school competitive swimming requirements include:



- Course length of 25 yards with a minimum width of 45 feet for six 7 ft. wide lanes or 60 ft. for eight 7 ft. wide lanes.
- 125 spectator seats
- Equipment such as pace clocks, stretch cords, mats (for sit-ups, etc.), free weights, medicine balls, weight training equipment, kickboards, fins, paddles, pull buoys, course caps, and goggles.

Special Olympics

Creating positive and enduring changes in the lives of people with disabilities, their families, friends, coaches, volunteers, and all who cheer them on is the goal of Special Olympics. The organization continued to grow in 2008, serving approximately 3.2 million athletes in 180 countries. The movement’s top five sports include aquatics, athletics, football, basketball, bowling, and table tennis. Aquatic events usually take place in 25-meter pools with relay events that mirror those offered in other international swimming competitions. Events include:¹²

- 25-Meter Freestyle
- 25-Meter Backstroke
- 25-Meter Breaststroke
- 25-Meter Butterfly
- 15-Meter Walk

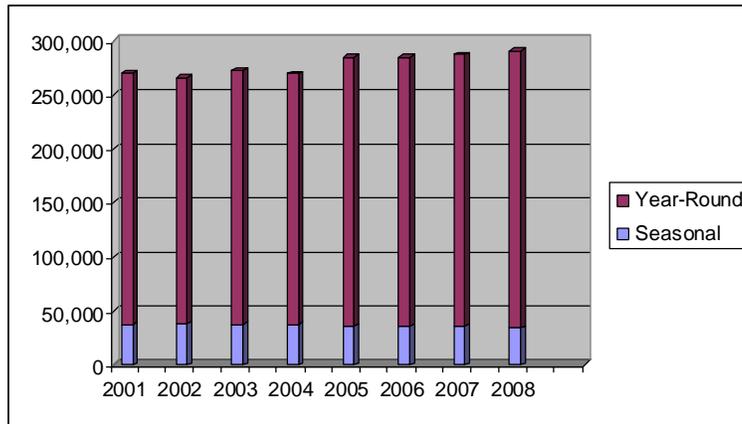


- 15/25-Meter Flootation Race
- 10/15-Meter Assisted Swim

USA Swimming

As the national aquatic governing body for competitive swimming in the United States, USA Swimming formulates rules, implements policies and procedures, conducts national championships, disseminates safety and sports medicine information, and selects athletes to represent the United States in international competitions. USA Swimming has 257,160 members nationwide and sanctions more than 7,000 events each year. USA Swimming has organized regional and national competitions for age group competitive swimming in the United States. The following chart illustrates the historic growth of this youth sport nationally.¹³

USA Swimming Membership Trend



Source: USA Swimming

The base for popularity is primarily a young age group as shown in the following chart.

Average Age of Membership 2008	
8 and under	33,808
9	24,172
10	27,574
11	29,137
12	28,391
13	25,872
14	23,154
15	18,554
16	16,062
17	13,650
18	9,467
19 and over	7,322
Total	257,163

Source: USA Swimming

USA Swimming's Southern Zone includes the North Texas Local Swimming Committee (LSC) with 27 teams that include 4,694 swimmers in the immediate area of Dallas, Plano, Frisco, and North Richland Hills, to name a few.¹³

All USA Swimming sponsored events must meet the minimum standards listed below. Some minimum facility requirements for USA Swimming National Championships are also listed.

- 25-meter pools (82 ft. and ¼ inch) must have a nominal tolerance of plus .03 meters (1 and 3/16 of an inch) to minus .00 meters on both end walls at all points from .03 meters (1 and 3/16 of an inch) above to .8 meters (2 ft. 7½ inches) below the water surface.
- 50-meter pools (164 ft. and ½ inch) must have a nominal tolerance of plus .03 meters (1 and 3/16 of an inch) to minus .00 meters on both end walls at all points from .03 meters above to .8 meters below the water surface.
- A minimum depth of 1.22 meters (4 ft.) is required for starting block competitions; 2 meters (6 ft. 7 inches) is preferred and is the minimum depth for national championship meets.
- Light intensity over starting platforms and turning ends shall be no less than 100 foot candles (600 lux).
- Lanes must be 2.13 meters (7 ft.) wide. For national championships, lanes must be at least 2.5 meters (8 ft. 2 and 1/2 inches) wide with additional open water space of at least .45 meters (1 ft. 6 inches) outside of each the first and last lanes.
- Water temperature shall not be less than 26 degrees Celsius or 78 degrees Fahrenheit (with a nominal plus or minus 1 degree Celsius and two degrees Fahrenheit).
- Air temperature for indoor pools must be no lower than 76 degrees Fahrenheit (eight feet above deck level); humidity must be no greater than 60 percent and air velocity no less than 25 feet per minute.

SOUTHERN ZONE 2008		
LSC	Clubs	Swimmers
Florida	82	7,468
Florida Gold Coast	45	4,518
Georgia	48	6,669
South Carolina	22	2,136
North Carolina	63	6,434
W. Virginia	10	575
Kentucky	32	2,430
Southeastern	69	6,599
Mississippi	14	1,479
Louisiana	29	2,155
Gulf	35	5,230
N. Texas	27	4,694
S. Texas	42	5,100
W. Texas	8	613
Border	7	676
Total	533	56,776
Source: USA Swimming		

The minimum facility requirement for local meets during the school year is a six lane 25-yard pool. During the summer months, when long course swimming prevails, six or eight lane 50-meter pools are the norm. In either case, seating for spectators is considered a bonus, especially if that seating is off deck.

United States Masters Swimming

United States Masters Swimming (USMS) programs are open to all adult swimmers (fitness, triathlete, competitive, non-competitive) dedicated to improving their fitness through swimming. Founded in 1970, the non-profit corporation is organized with 450 clubs throughout the United States. Membership consists of more than 50,000 swimmers ranging in age from 18 to over 100. Within the clubs, structured workouts offer training assistance for specific goals for a healthy lifestyle through camaraderie. Pool and open water races provide opportunities to compete and measure individual progress at the local, state, national, and international levels. USMS programs also offer stroke and technique clinics, workshops, instruction, and social functions. Competitions are organized by age groups of five-year increments (18-24, 25-29, 30-34, 35-39, etc. to 95 and over). Events include 50, 100, 200, 500, 1000 and 1650 freestyle (400, 800 and 1500 in meters); 50, 100 and 200 backstroke, breaststroke and butterfly; and 100, 200, and 400 individual medleys. There are also freestyle and medley relays for men, women, and/or mixed teams. Open water swims are held in most locales during the summer and can range in distance from one to ten miles.

Special events such as seeing how far you can swim in one hour are contested through the mail. USMS hosts two national championship meets a year. A short course (25-yard pool) championship is held in May and a long course (50-meter pool) championship is held in August. These four-day events rotate to different locations around the country. International championships are conducted periodically by Masters Swim organizations in countries throughout the world.¹⁴

Community Swim and Dive Teams

Numerous communities sponsor competitive swimming and diving teams for children and teens. The purpose is to offer opportunity to enjoy the healthy fun of swimming; to support individual achievement of personal bests; and to promote goal setting, life skills, and sportsmanship. Teams typically adhere to recognized swimming rules and swim the standard strokes of swim meets but in shorter lengths. Swimmers with limited or no competitive experience are provided stroke conditioning clinics as a recommended alternative. Teams are usually more active in the warmer months, and not directly associated with a national swim organization. Many swimmers who begin their competitive swimming experience on a local swim team proceed to join nationally governed teams.

Pool Rental

Competitive swimmers, particularly members of independent swimming associations, are accustomed to renting lane space for training as well as leasing entire facilities, either for long-term use or on a one- to three-day basis for special events and competitions. Although there is more than one accepted way to receive fees from swim teams, pool lane rental is usually based on cost per lane/per hour. Entire facilities leased on a per-day basis generally have a fixed schedule of costs for such use. Long-term facility leases are generally the product of negotiation and, accordingly, are too varied and specialized for consideration in the context of this study. The following is an example for calculating lane rental fees using a cost per lane approach.

COST PER LANE/PER HOUR CALCULATION										
days	lane rental hrs per day	lane rental annual hrs	pool size	sq. ft. of pool	annual expenses	operation cost per sq. ft.	# of lanes	sq. ft. per lane	cost to operate each lane	lane rental
360	9	3,240	25 by 25	6,150	\$ 400,000	\$ 65	10	615	\$ 40,000	\$ 12.35
360	9	3,240	50-meter	12,300	\$ 1,000,000	\$ 81	22	559	\$ 45,455	\$ 14.03
100	9	900	50-meter	12,300	\$ 300,000	\$ 24	22	559	\$ 13,636	\$ 15.15
100	9	900	25 by 25	6,150	\$ 150,000	\$ 24	10	615	\$ 15,000	\$ 16.67

Source: Counsilman-Hunsaker

1. Multiply days open by lane rental hours per day = lane rental annual hours
2. Divide annual expenses (no labor) by square foot of pool = operation cost per square foot
3. Divide square foot of pool by # of lanes = square foot per lane
4. Multiply operation cost per square foot by square foot per lane = cost to operate each lane
5. Divide cost to operate each lane by lane rental annual hours = lane rental fee

Section 4: Area Provider Analysis

City of Richardson Pools

Aquatic Providers 0-10 Miles

Aquatic Providers 10-15 Miles

Aquatic Providers 15-20 Miles

Aquatic Providers 20-25 Miles

Section 4: Area Provider Analysis

The recreation industry is a competitive market vying for disposable income driven by population trends, income levels, demographic profiles, and favorable locations. Large aquatic centers and destination facilities offer a grand scale of cutting-edge amenities, deliver a unique customer experience, and draw from a large radius. Small to medium aquatic centers compete by offering family amenities in a cozy atmosphere, thus delivering a friendly customer experience, and serving a local market. The City of Richardson's goal is not to compete for services, but to deliver high quality programs at a reasonable cost to taxpayers. The following information, regarding aquatic facilities within the vicinity, is used to locate gaps in programs and services in the immediate area.

City of Richardson Pools

The City of Richardson operates five outdoor pools from 1 p.m. – 9 p.m. during the summer season. Programming includes summer swim lessons, pool and sprayground rentals, and City of Richardson (COR) USA Swim Team. Indoor practice locations for COR are held at Berkner High School and JJ Pearce High School.

Arapaho Pool

711 W. Arapaho Rd.
Richardson, TX
(972) 671-0184

Arapaho Pool	
Amenities	
L-Shaped Outdoor Pool	
1-meter Diving Board	
Small Waterslide	
Fees	
Daily	
Age 4 & Under	FREE
Age 5+	\$2
Season Pass	
Individual	\$30



Arapaho Pool was built in 1964. A sprayground was added in 1995.

Canyon Creek Pool

600 Aspenwood Dr.

Richardson, TX

(972) 671-0185

Canyon Creek Pool	
Amenities	
L-Shaped Outdoor Pool	
1-meter Diving Board	
Small Waterslide	
Tot Pool	
Fees	
Daily	
Age 4 & Under	FREE
Age 5+	\$2
Season Pass	
Individual	\$30



Canyon Creek Pool was built in 1970.

Cottonwood Pool

1321 W. Belt Line Road

Richardson, TX

(972) 644-7156

Cottonwood Pool	
Amenities	
6 lane 25-yard Outdoor Pool	
Small Waterslide	
Diving Pool	
Two 1-meter Diving Boards	
Fees	
Daily	
Age 4 & Under	FREE
Age 5+	\$2
Season Pass	
Individual	\$30



Cottonwood Pool was built in 1965.

Glenville Pool

500 S. Glenville Drive
Richardson, TX
(972) 671-0187

Glenville Pool	
Amenities	
Outdoor Rectangular Pool 1-Meter Diving board Small Waterslide	
Fees	
Daily	
Age 4 & Under	FREE
Age 5+	\$2
Season Pass	
Individual	\$30



Glenville Pool was built in 1970. A sprayground was added in 2003.

Terrace Pool

300 N. Lois Lane
Richardson, TX
(972) 671-0190

Terrace Pool	
Amenities	
Outdoor Rectangular Pool Zero-Depth Entry Water Feature Small Waterslide Tot Pool	
Fees	
Daily	
Age 4 & Under	FREE
Age 5+	\$2
Season Pass	
Individual	\$30



Terrace Pool was built in 1959. Features also include a basketball hoop.

Aquatic Providers 0-10 Miles

City of Garland (4 miles)

The City of Garland operates four pools: Holford Pool, Bradfield Pool, Wynne Park Pool, and Surf & Swim Wave Pool.

Holford Pool

2322 Homestead Pl.
Garland, TX
(972) 205-2776



Holford Pool	
Amenities	
5-lane 25-meter Outdoor Pool	
Fees	
Age 4 & Under	FREE
Age 5+	\$1.50
Season Pass	
20 coupons	\$20

Holford Pool features wheelchair accessibility, a stairwell entry, and shade structures. Programming includes swim lessons. Pool rentals are available on weekends from 6:30 p.m. – 8:30 p.m. for \$200.

Bradfield Pool

1150 Castle Dr.
Garland, TX
(972) 205-2774



Bradfield Pool	
Amenities	
50-meter Outdoor Pool	
2-Story Waterslide	
Sprayground	
Fees	
Age 2 & Under	FREE
Under 48"	\$1.50
48" & Over	\$3

Bradfield Pool offers swim lessons and water fitness classes. Pool rentals are available on weekends from 6:30 p.m. – 8:30 p.m. for \$400.

Wynne Park Pool
 3858 S. Glenbrook Dr.
 Garland, TX
 (972) 205-2777



Wynne Park Pool	
Amenities	
25-meter Outdoor Pool	
Fees	
Age 4 & Under	FREE
Age 5+	\$1.50

Programming at Wynne Park Pool includes swim lessons. Pool rentals are available on weekends from 6:30 p.m. – 8:30 p.m. for \$200.

Surf & Swim Wave Pool
 440 W. Oates Rd.
 Garland, TX
 (972) 205-3993



Surf & Swim Wave Pool	
Amenities	
Half-million gallon Wave Pool	
Sprayground	
Concessions	
Fees	
Daily	
Age 2 & Under	FREE
Under 48"	\$5
48"+	\$6
Season Pass	
10 coupons:	
Under 48"	\$40
48"+	\$30

Surf and Swim is a 4-acre aquatic complex in Garland, TX.

Hawaiian Falls Garland
 4550 North Garland Ave.
 Garland, TX



Hawaiian Falls Garland	
Amenities	
Wave Pool	
Half-Pipe Tube Ride	
Large Water Structure	
Speed Waterslides	
Children's Activity Pool	
Lazy River	
Mat Racer	
Concessions	
Fees	
Daily	
2 & Under	FREE
48" & Under	\$12
48"+	\$19
Age 60+	\$12
Season Pass	
Individual	\$80

Hawaiian Falls is a waterpark chain owned by Harvest Family Inc., a California-based, Christian-oriented organization. The chain is composed of three waterparks in the Dallas-Fort Worth metroplex. Hawaiian Falls Garland opened in 2003, followed by Hawaiian Falls The Colony in 2004, and then Hawaiian Falls Mansfield. Hawaiian Falls Garland is open during the summer Monday through Saturday from 10:30 a.m. to 7 p.m. and on Sundays from noon to 7 p.m.

City of Plano (5 miles)

The City of Plano operates six aquatic facilities: Jack Carter Pool, Liberty Recreation Center Pool, Harry Rowlinson Community Natatorium, the Tom Muehlenbeck Center Pools, Oak Point Center, and the Plano Aquatic Center.

Jack Carter Pool

2800 Maumelle Dr.
Plano, TX



Jack Carter Pool	
Amenities	
Outdoor 8 Lane 50-Meter Pool	
Waterslide	
1-Meter Divingboard	
Wading Pool	
Zero-Depth Entry	
Tot Slide	
Fees	
Daily	
2 & Under	FREE
3 to16	\$3
17+	\$6
Resident Annual Pass	
3 to16	\$80
17 to 59	\$130
60+	\$100
Nonresident Annual Pass	
3 to16	\$160
17 to 59	\$260
60+	\$200
Work in Plano	\$195

The City of Plano operates Jack Carter Pool, an outdoor 50-meter swimming pool that provides seasonal recreation swimming. The pool is also available for rental.

Liberty Recreation Center Pool

2601 Glencliff Dr.

Plano, TX



Liberty Rec. Center Pool	
Amenities	
Outdoor Recreation Pool	
Fees	
Daily	
2 & Under	FREE
3 to16	\$3
17+	\$6
Resident Annual Pass	
3 to16	\$80
17 to 59	\$130
60+	\$100
Nonresident Annual Pass	
3 to16	\$160
17 to 59	\$260
60+	\$200
Work in Plano	\$195

The City of Plano’s Liberty Recreation Center features a four lane outdoor swimming pool where one lap lane is open during public swim hours. Aquatic programming includes swim lessons, stroke clinics, aquatic resistance training, arthritis aquatic programs, water aerobics, CPO, gym & swim, diving lessons, lifeguard training, water fitness instructor training, water jogging, water walking, water polo, water safety instruction, water babies, water tots, and youth swim conditioning.

Harry Rowlinson Community Natatorium

1712 P Avenue

Plano, TX



Harry Rowlinson Natatorium	
Amenities	
Indoor 6 Lane 25-Yard Pool	
Drop Slide	
Shallow Water Training Area	
Zero-Depth Entry Ramp	
Fees	
Daily	
2 & Under	FREE
3 to16	\$3
17+	\$6
Resident Annual Pass	
3 to16	\$80
17 to 59	\$130
60+	\$100
Nonresident Annual Pass	
3 to16	\$160
17 to 59	\$260
60+	\$200
Work in Plano	\$195

The City of Plano operates Harry Rowlinson Community Natatorium, which offers year-round swimming with zero-depth entry and a shallow-water training area for younger swimmers. Recent renovation of this dual-use Plano Park and Recreation / high school competitive pool includes installation of a new stainless steel gutter, structure, finish, piping, and mechanical system. Programming includes high school swim team and youth swim team.

Tom Muehlenbeck Center Pool

5801 W. Parker Rd.

Plano, TX

Tom Muehlenbeck Ctr. Pool	
Amenities	
Indoor 8 Lane 25-Yard Pool	
Diving Board	
Indoor Leisure Pool	
Drop Slide	
Outdoor Leisure Pool	
Waterslide	
2 Walking Lanes	
Play Structure	
Vortex	
Current Channel	
Sprayground	
Fees	
Daily	
2 & Under	FREE
3 to16	\$3
17+	\$6
Resident Annual Pass	
3 to16	\$80
17 to 59	\$130
60+	\$100
Nonresident Annual Pass	
3 to16	\$160
17 to 59	\$260
60+	\$200
Work in Plano	\$195



The City of Plano operates the Tom Muehlenbeck Center that features both indoor and outdoor pools. The natatorium complements the center’s flowing architecture with a strong visual connection between the inside and outside bodies of water. An eight lane 25-yard indoor pool with on-deck seating provides competitive aquatics while indoor and outdoor recreation pools offer attractions for family entertainment and relaxation. Programming includes swim lessons, CPO, deep water aerobics, and water babies.

Oak Point Center
 6000 Jupiter Road
 Plano, TX

Oak Point Center	
Amenities	
Indoor 8 Lane 50-Meter Pool	
Indoor Leisure Pool Area	
Waterslide	
Tumble Buckets	
Zero-Depth Entry Ramp	
Outdoor Shallow Water Pool	
Waterslide	
Zero-Depth Entry	
Water Playground	
Spray Features	
Fees	
Daily	
2 & Under	FREE
3 to 16	\$3
17+	\$6
Resident Annual Pass	
3 to 16	\$80
17 to 59	\$130
60+	\$100
Nonresident Annual Pass	
3 to 16	\$160
17 to 59	\$260
60+	\$200
Work in Plano	\$195



Plano Parks and Recreation Department opened Oak Point Center in March 2000 with both indoor and outdoor aquatics. Aquatic programming includes public swim, lap swimming, swim lessons, special aquatics, Masters swim team, swim conditioning, stroke clinic, aquatic resistance training, water aerobics, lifeguard training, water babies, and pool party rentals.

Plano Aquatic Center

2301 Westside Dr.

Plano, TX

Plano Aquatic Center	
Amenities	
Indoor 25-Yard Pool	
Shallow Water Training Area	
Outdoor Sprayground	
Fees	
Daily	
2 & Under	FREE
3 to16	\$3
17+	\$6
Resident Annual Pass	
3 to16	\$80
17 to 59	\$130
60+	\$100
Nonresident Annual Pass	
3 to16	\$160
17 to 59	\$260
60+	\$200
Work in Plano	\$195



The City of Plano operates this aquatic facility, which offers a shallow-water training area for younger swimmers and an outdoor sprayground during the summer. Programming includes Masters swimming, youth swim team, swim lessons, swim conditioning, water aerobics, gym & swim, water jogging, water walking, water babies, and pool party rentals.

Aqua Fit Swim and Wellness Center

1400 Summit Ave.

Plano, TX

Aquat Fit Swim /Wellness Ctr.	
Amenities	
Indoor 25 x 15 Pool	
Salt Water System	
Fees	
Not available	

Aqua Fit Swim and Wellness Center is a private indoor warm salt-water pool that offers open swim, lap swimming, water exercise, physical therapy, arthritis foundation aquatic program, swim lessons, birthday parties, parent organization groups, and home school open swim/lessons. The center has a message recording system to return your call to discuss their fees.

Swim Plus Divers Training Center

1108 Dobie Drive
Plano, TX

Swim Plus Training Center	
Amenities	
Indoor 20 x 40 Pool	
Fees	
Membership	
Annual	\$120.00
Classes	Extra

Swim Plus Divers Training Center is a private indoor heated pool available for rental for water exercise classes, water therapy, private swim parties, and scuba equipment testing. The pool accommodates lap swimming, water exercise, physical therapy, swim lessons, CPR classes, lifeguard training, WSI, snorkeling, scuba classes, and wellness workshops.

Aquatic Providers 10-15 Miles

City of Carrollton (10 miles)

The City of Carrollton operates two aquatic facilities: W.J. Thomas Swimming Pool and the Rosemeade Rainforest Aquatic Complex.

W.J. Thomas Swimming Pool

1955 N. Perry Rd.
Carrollton, TX
(972) 466-6376



W.J. Thomas Swimming Pool	
Amenities	
50-meter Outdoor Pool	
Zero-depth Entry	
Two-flume Waterslide	
Concessions	
Fees	
Daily	
Age 3 & Under	FREE
Residents	\$2
Nonresidents	\$4
Season Pass	
Residents	\$40
Family	\$90

W. J. Thomas Swimming Pool is next to Thomas Park baseball fields. Programming includes the Carrollton Aqua Racer swim team, swim lessons, dive lessons, aqua exercise classes, special needs swimming, and pool rentals at \$100 per hour.

Rosemeade Rainforest Aquatic Complex

1334 E. Rosemeade Pkwy.

Carrollton, TX

(972) 466-6399



Rosemeade Rainforest	
Amenities	
50-meter Outdoor Pool	
25-meter Outdoor Pool	
Diving Pool	
Training Pool	
22-ft Two-flume Waterslide	
Zero-Depth Entry	
Two Platform Levels w/ Bridge	
Spray Features	
200-ft. Lazy River	
600-gallon Dump Bucket	
Renovated Bathhouse	
Concessions	
Fees	
Daily	
Age 3 & Under	FREE
Residents	\$3
Nonresidents	\$6
Season Pass	
Residents	\$50
Family	\$100

Aquatic Rosemeade Rainforest Complex is located adjacent to Rosemeade Recreation Center. Programming includes the Carrollton Aqua Racer swim team, swim lessons, dive lessons, aqua exercise classes, special needs swimming, and pool rentals at \$150 per hour.

[City of Allen \(10 miles\)](#)

The City of Allen operates two aquatic facilities: the Don Rodenbaugh Natatorium and Ford Pool.

Don Rodenbaugh Natatorium

Aquatic and Fitness Center
 110 E. Rivercrest
 Allen, TX



Don Rodenbaugh Natatorium	
Amenities	
Indoor 7,000 SF Leisure Pool	
(3) 25-Yard Fitness Lap Lanes	
Flume Waterslide	
Interactive Play Elements	
Current Channel	
Spa	
Outdoor Deck	
Indoor 25-Yard by 25-Meter Pool	
(2) 1-Meter Diving Boards	
Fees	
Daily	
2 & Under	FREE
3 to 17	\$4
18 to 50	\$5
Senior 50+	\$3
Resident Annual Pass	
3 to 13	\$83
14 to 17	\$132
18 to 50	\$165
Senior 50+	\$132
Resident 3-Month Pass	
Individual	\$60
Resident 6-Month Pass	
Individual	\$100
Nonresident Annual Pass	
3 to 13	\$152
14 to 17	\$202
18 to 50	\$235
Senior 50+	\$202
Resident 3-Month Pass	
Individual	\$85
Resident 6-Month Pass	
Individual	\$145

Programming at the Don Rodenbaugh Natatorium includes swim lessons, water babies, scuba diving, American Red Cross lifeguard training, stroke mechanics and technique, and aqua exercise classes. The natatorium also provides room rental for birthday parties and an indoor rock climbing wall. Two deep water lap lanes are available for public lap swimming during facility hours. The natatorium is the site for the Allen High School District swim meets. Membership includes use of Ford Pool.

Ford Pool

704 Whitman Drive

Allen, Texas

Ford Pool	
Amenities	
Outdoor Pool	
Fees	
Daily	
6 & Under	FREE
Individual	\$1.75
Annual Pass	
Individual	\$45
Family of 2	\$75
Family of 3	\$90
Family of 4	\$105
Family of 5	\$110
Family of 6	\$115
Family of 7	\$120
Family of 8+	\$125



The City of Allen operates Ford Pool, which offers open swimming (1 p.m. to 6 p.m.), swim lessons, and Family Nights. Admission is FREE with membership to the Natatorium or a Ford Pool pass. Ford Pool is available to rent (residents only) most Saturday and Sunday mornings from 10:30 a.m. to 12:30 p.m. and evenings from 6:30 p.m. to 8:30 p.m. during June, July, and August.

City of Mesquite (10 miles)

The City of Mesquite operates four aquatic facilities: Vanston Swimming Pool, City Lake Aquatic Center, Town East Pool, and Evans Swimming Pool. (972) 216-6260

Vanston Swimming Pool

2913 Oates Dr.
 Mesquite, TX
 (972) 270-2687



Programming at Vanston Swimming Pool includes swim lessons.

Vanston Pool	
Amenities	
3 lane Outdoor Lap Pool	
Zero-depth Entry Leisure Pool	
Participatory Play Feature	
Shade Structures	
Fees	
Daily	
Age 3 to 54	\$4
Age 55+	\$2
10-Visit Pass	\$30.00

City Lake Aquatic Ctr.

200 Parkview St.
 Mesquite, TX
 (972) 285-5277

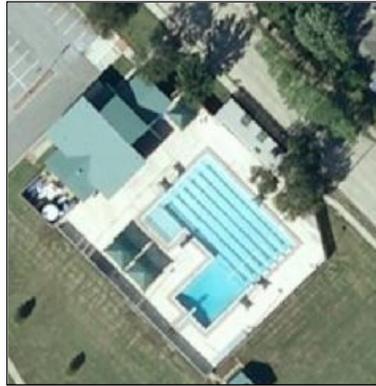


Programming at the City Lake Aquatic Center includes swim lessons.

City Lake Aq. Ctr.	
Amenities	
3 lane Outdoor Lap Pool	
Zero-depth Entry Leisure Pool	
Participatory Play Feature	
Shade Structures	
2 Corkscrew Waterslides	
Fees	
Daily	
Age 3 to 54	\$4
Age 55+	\$2
10-Visit Pass	\$30.00

Town East Pool
2525 John Glenn Pkwy.
Mesquite, TX
(972) 270-2683

Town East Pool	
Amenities	
6 lane 25-yard Outdoor Pool Diving Pool	
Fees	
Daily	
Age 3 to 54	\$2
Age 55+	\$1
20-Visit Pass	\$30.00



Programming at the Town East Pool includes swim lessons.

Evans Swimming Pool (Closed 2009)
1200 Hillcrest St.
Mesquite, TX
(972) 289-9151

The Colony (13 miles)

Colony City Aquatic Park

5580 N. Colony Blvd.

The Colony, TX

(972) 624-2225



Colony City Aquatic Park	
Amenities	
Heated Indoor Pool	
Outdoor Leisure Lagoon	
Wading Pool	
Children's Splash Zone	
Fees	
Daily	
Age 6 & Under	\$3
Age 7+	\$4
Season Pass	
Resident	\$36
Nonresident	\$71
Resident Family	\$80
Nonresident Fam.	\$160

Programming at Colony City Aquatic Park includes swim lessons, competitive swim classes, activities, and rentals. The Aquatic Park features an indoor heated pool during the winter and spring months. Classes in fitness, kayaking, competitive swimming, scuba, & lap swimming are held year-round. This facility also hosts high school swim teams.

Hawaiian Falls The Colony

4400 Paige Road

The Colony, TX



Hawaiian Falls The Colony	
Amenities	
Wave Pool	
Half-Pipe Tube Ride	
Mat Racer	
Inner Tube Slides	
Drop Slides	
Large Play Feature	
Lazy River	
Water Walkway	
Rental Cabanas	
Concessions	
Fees	
Daily	
2 & Under	FREE
48" & Under	\$12
48"+	\$19
Age 60+	\$12
Season Pass	
Individual	\$80

Hawaiian Falls is a waterpark chain owned by Harvest Family Inc., a California-based, Christian-oriented organization. The chain is composed of three waterparks in the Dallas-Fort Worth metroplex. Hawaiian Falls Garland opened in 2003, followed by Hawaiian Falls The Colony in 2004, and then Hawaiian Falls Mansfield. Hawaiian Falls The Colony is open during the summer on Monday, Tuesday, Thursday, and Friday from 10:30 a.m. to 7 p.m.; on Wednesday from 10:30 a.m. to 5:30 p.m.; on Saturday from 10:30 a.m. to 6 p.m.; and on Sunday from Noon to 7 p.m.

City of Dallas (14 miles)

The City of Dallas is responsible for the operation and programming of the city's 21 municipal swimming pools, seven spraygrounds, and a waterpark. Aquatic programming includes swim lessons, lifeguard training, water safety instruction courses, and swim teams. Most pools are older rectangular pools with little or no amenity with the exception of Hawaiian Falls Water Park, which is a state-of-the-art outdoor aquatic center.

1. Jacee-Zaragoza Pool

3125 Tumalo Tr.
Dallas, TX
214.670.6465

Jaycee Pool offers swim lessons, aquatic exercise, water aerobics and swim team.

City of Dallas Pools	
Amenities	
21 Rectangular Outdoor Pools	
7 Spraygrounds	
1 Waterpark	
Fees	
Daily	
Age 5 & Under	FREE
Age 11 & Under	\$1
Age 12+	\$2

2. Martin Weiss Pool

3440 Clarendon
Dallas, TX
214.670.1989

Martin Weiss Pool offers swim lessons and swim team.

3. Tipton Pool

3607 Magdeline
Dallas, TX
214.670.6466

Tipton Pool offers swim lessons and swim team.

4. Hattie Rankin Moore Swim Pool

3122 N. Winnetka Ave.
Dallas, TX
214.670.1391

- 30 yard pool

H.R. Moor Pool offers swim lessons and swim team.

5. Kidd Springs Swimming Pool

807 W. Canty St.
Dallas, TX
214.670.6817

Kidd Springs Pool offers swim lessons and swim team.

6. Grauwlyer Swimming Pool

2157 Anson Road
Dallas, TX
214.670.6444

Grauwlyer Pool offers swim lessons and swim team.

7. Glendale Swimming Pool

1534 W. Five Mile Parkway
Dallas, TX
214.670.1977

8. Bonnie View Swimming Pool

2124 Huntingdon Ave.
Dallas, TX
214.670.6821

9. Exline Swimming Pool

2430 Eugene St.
Dallas, TX
214.670.0350

Exline Pool offers swim team.

10. Samuell-Grand Swimming Pool

3201 Samuell Blvd.
Dallas, TX
214.670.1379

Samuell-Grand Pool offers a junior lifeguard program, diving/fitness, and swim team.

11. Tietze Swimming Pool

6115 Llano Ave.
Dallas, TX
214.670.1380

Tietze Pool offers diving/fitness and swim team.

12. Juanita J. Craft Swimming Pool

3125 Lyons St.
Dallas, TX
214.670.0343

J.J. Craft Pool offers American Red Cross Lifeguard Certification, diving/fitness, and swim team.

13. Walnut Hill Swimming Pool

4141 Walnut Hill Lane
Dallas, TX
214.670.6433

Walnut Hill Pool offers swim lessons and swim team.

14. Everglade Pool

5100 Jim Miller
Dallas, TX
214.670.0940

Everglade Pool offers swim team.

15. Tommie M. Allen Pool

6901 Bonnie View
Dallas, TX
214.670.0982

16. Harry Stone Pool

2403 Millmar Drive
Dallas, TX
214.670.0950

Harry Stone Pool offers junior lifeguard program, diving/fitness, and swim team.

17. Pleasant Oaks Pool

8701 Greenmound
Dallas, TX
214.670.0941

Pleasant Oaks Pool offers swim team.

18. Lake Highlands Pool

9940 White Rock Tr.
Dallas, TX
214.670.1346

Lake Highlands Pool offers swim lessons and swim team.

19. Churchill Pool

7025 Churchill Way
Dallas, Texas
214.670.6177

Churchill Pool offers swim lessons and swim team.

20. McCree Pool

9016 Plano Road
Dallas, TX
214.670.0389

McCree Pool offers swim lessons and swim team.

21. Fretz Pool

14739 Hillcrest
Dallas, TX
214.670.6464

Fretz Pool offers swim lessons, deep water workout, shallow water workout and swim team.

City of Dallas Spraygrounds:

Danieldale Sprayground

300 W. Wheatland
Dallas, TX
Hours: 8am – 8pm

Mildred Dunn Sprayground

3322 Reed Lane
Dallas, TX
Hours: 8am – 8pm

Janie C. Turner Sprayground

6424 Elam
Dallas, TX
Hours: 8am – 8pm

Umphress Sprayground

7616 Umphress
Dallas, TX
Hours: 8am – 8pm

Campbell Green Sprayground

6600 Parkhill Drive
Dallas, TX
Hours: 8am – 8pm

Ridgewood Sprayground

6818 Fisher Road
Dallas, TX
Hours: 8am – 8pm

Lake Highlands Sprayground

9940 White Rock
Dallas, TX
Hours: 8am – 8pm

Hawaiian Falls Water Park

1808 Ariel Drive
 Dallas, TX
 214.670.1917



Hawaiian Falls Waterpark	
Amenities	
Zero-depth Entry Leisure Pool	
Large Waterslides w/ Catch Pools	
Mat Racer	
Lazy River	
Participatory Play Feature	
Spray Features	
Island	
Concessions	
Fees	
Daily	
Age 2 & Under	FREE
48" & Under	\$7
48"+	\$13

Hawaiian Falls is a state-of-the art outdoor medium-sized water park operated by the City of Dallas.

Alfred J. Loos Natatorium

3815 Spring Valley Rd.
 Addison, TX 75244
 972-888-3191



Alfred J. Loos Natatorium	
Amenities	
8 lane 50-meter Indoor Pool	
Bulkhead	
Fees	
Daily	
Individual	\$2

Loos Natatorium is owned and operated by Dallas ISD. Loos has been included in this section because it is the only 8 lane 50-meter indoor pool located in the Dallas area. This competition pool is home to the Dallas Mustangs Swim Team and Masters Swim Team. The bulkhead can configure the pool as two 25-yard courses. During the fall and winter (short-course season), Loos is divided into two eight lane 25-yard pools and during the spring and summer the pool is expanded to its 50-meter length for long-course workouts.

Aquatic Providers 15-20 Miles

City of Irving (16 miles)

The City of Irving is responsible for the operation and programming of eight municipal swimming pools, including North Lake Aquatic Center, Heritage Aquatic Center, Lee Pool, Northwest Pool, Southwest Pool, Lively Pool, Senter Pool, and the new West Irving Aquatic Center slated for 2010.

North Lake Aquatic Center

50001 MacArthur
Irving, TX
972.273.3531



North Lake Aquatic Center	
Amenities	
50-meter Indoor Pool	
Fees	
Daily	
Age 3 & Under	FREE
Age 4 to 17	\$1
Age 18 to 50	\$2
50+	FREE
Annual Pass	
Age 4 to 17	\$40
Age 18+	\$65
Family	\$125

The City of Irving's North Lake Aquatic Center is open year-round for classes and swimming activities. The natatorium is jointly owned by the City of Irving, Irving Independent School District, and the Dallas County Community College District. Open swim times are Monday – Friday 6 a.m. to 8 a.m., 11:30 a.m. to 3 p.m., Tuesday/Thursday 6:30 p.m. to 10 p.m., Friday 6:30 p.m. to 9 p.m., Saturday 1 p.m. to 8 p.m., and Sunday 1 p.m. to 5 p.m. Note: May be closed on some Saturdays and Sundays for special events. Limited lap lanes are available during open swim time. North Lake students and faculty members admitted free with college I.D.

Heritage Aquatic Center

200 S. Jefferson Street

Irving, TX

972.721.7310

Heritage Aquatic Center	
Amenities	
20-yard Indoor Pool	
40' Corkscrew Waterslide	
45' Speed Waterslide	
Lap Lanes	
Current Channel	
12-person Spa	
Ramp, Chair Lift, Steps, Rails	
Fees	
Daily	
Age 3 & Under	FREE
Age 4 to 17	\$1
Age 18 to 50	\$2
Age 50+	FREE
Annual Pass	
Age 4 to 17	\$40
Age 18+	\$65
Family	\$125

The City of Irving's Heritage Aquatic Center is open year round and offers aqua aerobics and wellness classes. Kickboards, hand buoys, and life jackets are available. Saturdays offer free water safety presentations.

Lee Pool
 3000 Pamela
 Irving, TX
 972.721.2585

Lee Pool	
Amenities	
25-meter Outdoor Pool	
1-meter Diving Board	
Fees	
Daily	
Age 3 & Under	FREE
Age 4 to 17	\$1
Age 17+	\$1.50



The City of Irving's Lee Pool was built in the 1960's.

Northwest Pool
 2800 Cheyenne
 Irving, TX
 972.721.2609

Northwest Pool	
Amenities	
25-meter Outdoor Pool	
1-meter Diving Board	
Fees	
Daily	
Age 3 & Under	FREE
Age 4 to 17	\$1
Age 17+	\$1.50



The City of Irving's Northwest Pool was built in the 1960's.

Southwest Pool
 3100 W. Shady Grove

Irving, TX
972.721.2408

Southwest Pool	
Amenities	
25-meter Outdoor Pool	
1-meter Diving Board	
Fees	
Daily	
Age 3 & Under	FREE
Age 4 to 17	\$1
Age 17+	\$1.50

The City of Irving's Southwest Pool was built in 1972.

Lively Pool
915 O'Connor
Irving, TX
972.721.2597

Lively Pool	
Amenities	
100' Outdoor Pool	
1-meter Diving Board	
Fees	
Daily	
Age 3 & Under	FREE
Age 4 to 17	\$1
Age 17+	\$1.50

The City of Irving's Lively Pool was built in the 1950's. Hours are Monday/Tuesday/Friday from 1 p.m. to 9 p.m. and Saturday/Sunday from 1 p.m. to 7 p.m.

Senter Pool

901 Senter
Irving, TX
972.721.2638



Senter Pool	
Amenities	
25-meter Outdoor Pool	
1-meter Diving Board	
2-meter Diving Board	
Tot Pool	
Fees	
Daily	
Age 3 & Under	FREE
Age 4 to 17	\$1
Age 17+	\$1.50

The City of Irving's Senter Pool is over 50-years old.

West Irving Aquatic Center

A new state-of-the-art aquatic center will be of 2010 and located near the Georgia Farrow within walking distance to future DART Irving Aquatic Center will offer more than water attractions. Features will include four 25-wheelchair accessible entrance ramp, and such as a rock climbing wall that extends 8 feet above the water. The center will also have lockers and concessions, zero-depth entry, two waterslides, an interactive playground, and a shaded toddler pool. There will be numerous shaded areas available for picnics, parties, and lounging.



built by the summer Recreation Center stations. The West 10,000 sq. ft. of yard lap lanes with a unique amenities

Aquatic Providers 20-25 Miles

City of McKinney (20 miles)

Senior Pool

1400 South College

McKinney, TX

Senior Pool	
Amenities	
Indoor 4 Lane Pool	
Fees	
9 and Under	\$1.25
10+	\$2



The City of McKinney operates Senior Pool, an indoor heated pool with year-round programming, including water exercise classes, lap swimming, and swim lessons.

Old Settler's Aquatic Center

1101 E. Louisiana St.

McKinney, TX

Old Settler's Aquatic Ctr.	
Amenities	
Outdoor Shallow Water Pool	
Open Flume Slide	
Bubblers	
Waterfall	
Tea Cup	
Lemon Drops	
Fees	
Daily	
9 & Under	\$1.25
10+	\$2
Passes	
30 Visits Child	\$25
30 Visits Adult	\$35
Annual	
Child	\$50
Adult	\$75



The City of McKinney operates Old Settler's Aquatic Center, a seasonal shallow-water recreation pool, offering recreation swimming, private party pool rentals, and party pavilion rentals.

Juanita Maxfield Pool

North Park
1701 North McDonald
McKinney, TX

Juanita Maxfield Pool	
Amenities	
Outdoor Recreation Pool	
Water Walk	
Diving Board	
Fees	
Daily	
9 & Under	\$1.25
10+	\$2
Passes	
30 Visits Child	\$25
30 Visits Adult	\$35
Annual	
Child	\$50
Adult	\$75



The City of McKinney operates the Juanita Maxfield Pool, an outdoor seasonal pool, offering swim lessons and recreation swimming.

Finch Park Splash Pad

301 W. Standifer
McKinney, TX

Finch Park Splash Pad	
Amenities	
1,500 Sq. Ft. Splash Pad	
Shooting Arches	
Timed Spray Spouts	
Fees	
FREE	



The City of McKinney operates the Finch Park Splash Pad, which is open daily during the summer, using a self-operated button.

McKinney High School Natatorium

1400 Wilson Creek Pkwy.

McKinney, TX

McKinney H.S. Natatorium	
Amenities	
Indoor 6 Lane 25-Yard Pool	
1 Meter Diving Board	
Fees	
Individual	\$1.50

Programming at the McKinney High School Natatorium includes lap swimming, youth swim teams, high school swim team, water aerobics, hydro-fit, SCUBA lessons, lifeguard training, water safety instructor courses, swim lessons, and open swim.

Metroplex Aquatics

503 N. Kentucky St.

McKinney, TX

Metroplex Aquatics	
Amenities	
Indoor 6 Lane 25-Yard Pool	
Fees	
Registration Fee	\$53
45 mins. 2x week	\$40/month
45 mins. 3x week	\$60/month
1.5hrs. 5x week	\$75/month
2 hrs. 6x week	\$80/month
High Schooler	\$40/month
Masters	\$40/month



Metroplex Aquatics, Inc. (Metro) was established as a private swim center in 1998 under the guidance of Head Coach Brent Mitchell. Metro's mission is to train area youth to swim at different levels through technique foundations and coaching. The team's goal is to

allow swimmers to reach their individual potential in competitive swimming while enjoying interaction with other swimmers. Since its inception, Metro has quadrupled in size and garnered impressive awards and results.

City of Frisco Public Pools (23 Miles)

The City of Frisco is responsible for the operation of two municipal swimming pools (Frisco Athletic Center and Frisco Municipal Pool) and two spraygrounds.

Frisco Athletic Center

5828 Nancy Jane Lane
Frisco, TX



Frisco Athletic Center	
Amenities	
Indoor Aquatic Center	
Play Pool	
Lap Pool	
Activity Pool	
Warm Water Pool	
Participatory Play Feature	
Waterslide	
Current Channel	
Vortex	
Outdoor Aquatic Center	
Leisure Pool	
Waterslides	
Lazy River	
Participatory Play Feature	
Fees	
Daily	
Youth	\$6
Adult	\$8
Resident Annual Pass	
Youth	\$230
Adult	\$350
Senior	\$280
Family	\$600
Nonresident Annual Pass	
Youth	\$350
Adult	\$530
Senior	\$420
Family	\$900

In May 2008, the City of Frisco opened an outdoor 1.8-acre aquatic center, a companion facility to their indoor recreation pool that opened in October 2007. The project was part of a \$16 million dollar recreation center that includes over 60,000 sq. ft. of wet and dry recreation facilities. Cost of the outdoor aquatic facility was just over \$3.4 million. Aquatic programming includes swim lessons, water aerobics, lifeguard training, water safety instructor, birthday parties, and special events.

Frisco Municipal Pool

7775 Camellia Lane

Frisco, TX

Frisco Municipal Pool	
Amenities	
Outdoor Recreation Pool	
Fees	
Daily	
Individual	\$1.25
Resident Annual Pass	
Individual	\$25
Family	\$60



The Frisco Municipal Pool is a seasonal outdoor pool for recreation swimming, summer swim lessons, and special events.

Frisco Spraygrounds (free admission)

J.R. Newman Park

8211 Twin Falls Drive

Frisco, TX

Opened in 2007

Shepherds Glen Park

12012 Shepherds Hill Drive

Frisco, TX

Opened in 2006

City of Grand Prairie (23 miles)

The City of Grand Prairie is responsible for the operation and programming of four municipal swimming pools and one sprayground: Bowles Pool, Tyre Pool, McFalls Pool, Kirby Creek Natatorium, and a sprayground.

McFalls Outdoor Pool

505 Dickey Road
Grand Prairie, TX
972-264-1203



McFalls Pool	
Amenities	
6 lane 25-meter Outdoor Pool	
1-meter Diving Board	
Starting Blocks	
Fees	
Daily	
Individual	\$1

Built in 1958, McFalls Outdoor Pool is currently used for recreation, swimming instruction, swim team training, swim team meets, and pool parties.

Tyre Pool

2327 Tyre Street
Grand Prairie, TX



Tyre Pool	
Amenities	
25-meter Outdoor Pool	
1-meter Diving Board	
Fees	
Daily	
Individual	\$1

Built in 1955, Tyre Pool is used for recreation, swimming instruction, and pool parties. The pool originally had five competitive swim lanes, but is no longer used for competitive swimming.

Bowles Pool

2714 Graham Street
Grand Prairie, TX



Bowles Pool	
Amenities	
6 lane Outdoor 25-meter Pool	
1-meter Diving Board	
Starting Blocks	
Wall Targets, Lane Markings	
Fees	
Daily	
Individual	\$1

Built in 1978, Bowles Pool was renovated in 2001, including the pool pump, filter, exposed piping in the mechanical area, surge tank equipment, main drains, main drain piping, suction piping from the surge tank, pressure piping, replacement of the pool deck, replacement

of the exterior fence, addition of a fabric shade structure, bathhouse renovation, and a ramp from the bathhouse to the pool deck.

Kirby Creek Natatorium

3201 Corn Valley Road
Grand Prairie, TX



Kirby Creek Natatorium	
Amenities	
6 lane 25-meter IndoorPool	
Diving Board	
Starting Blocks	
Seating for Parties	
Fees	
Daily	
Individual	\$2
Annual Pass	
30-Visit Pass	\$40
Individual	\$100
Family of 4	\$250

Kirby Creek Natatorium, built in 1978, is ADA accessible and open year-round. The pool was originally an outdoor pool, but enclosed in 1987. A concrete deck surrounds the pool with a Kool Deck finish. The pool is currently used for recreation swimming, swimming instruction, high school swim team training, water aerobic/fitness classes, and pool parties.

Splash Factory Water Playground (\$1 admission)

601 East Grand Prairie Road
Grand Prairie, TX
972.266-5272

Located behind Charley Taylor Recreation Center, Splash Factory features age-specific play areas and six touch buttons that allow children to interact with the play features. To conserve water, the city installed a swimming filter and chlorination system that re-circulates water through the park. Certified lifeguards monitor and enforce age requirements for the different play areas that include:

City of Grapevine (24 miles)

The Aquatics Division of the City of Grapevine is responsible for the operation and programming of two municipal swimming pools: Dove Pool located in North Grapevine, and Pleasant Glade Pool located in South Grapevine.

Dove Pool

1509 Hood Lane
Grapevine, TX
817-410-8140



Dove Pool is an outdoor facility that offers swim lessons, swim team, lap swimming, open swim, and rentals.

Dove Pool	
Amenities	
Outdoor Lap Pool	
Diving Board	
Tot Pool w/Zero-depth Entry	
Raindrop	
Shade Structures	
Fees	
Daily	
Age 2 & Under	FREE
Age 3+	\$2
Season Pass	
25-Visit Pass	\$30
Individual	\$40
Family	\$80

Pleasant Glade Pool
 1805 Hall Johnson Road
 Grapevine, TX
 817-410-3470



Pleasant Glade Pool of the City of Grapevine is open from Memorial Day to Labor Day from Noon till 5 p.m. and 7:30 to 9:30 p.m.

Pleasant Glade Pool	
Amenities	
6 lane Outdoor Pool	
Tot Pool w/ Water Features	
Shade Structures	
Fees	
Daily	
Age 2 & Under	FREE
Age 3+	\$2
Season Pass	
25-Visit Pass	\$30
Individual	\$40
Family	\$80

Eules Public Pools (24 miles)

The City of Eules is responsible for the operation of three municipal swimming pools: Midway Swimming Pool, South Eules Swimming Pool and Sprayground, and Wilshire Swimming Pool.

Midway Swimming Pool
 300 W. Midway
 Eules, TX
 817.685-1676



Located in Midway Park, the City of Eules' Midway Swimming Pool was built in 1950 and renovated in 1990.

Midway Swimming Pool	
Amenities	
Rectangular Outdoor Pool	
Tube Waterslide	
Picnic Tables	
Fees	
Daily	
Individual	\$1

South Euless Swimming Pool
 600 S. Main Street
 Euless, TX



Located in S. Euless Park, this City of Euless municipal facility was built in 1972. The sprayground was built in 2005. While the pool opens at 1 p.m., the sprayground opens at 9 a.m.

South Euless Swimming Pool	
Amenities	
Rectangular Outdoor Pool	
Tube Waterslide	
Picnic Tables	
Sprayground	
Fees	
Daily	
Individual	\$1

Wilshire Swimming Pool
 315 Sierra Dr.
 817.685-1678

Euless, TX



The City of Euless' swimming pool in Wilshire Park was constructed in 1972.

Wilshire Swimming Pool	
Amenities	
Rectangular Outdoor Pool	
Tube Waterslide	
Picnic Tables	
Fees	
Daily	
Individual	\$1

[City of Arlington \(25 miles\)](#)

The City of Arlington operates five aquatic facilities, including Randol Mill Swimming Pool, Bad Konigshofen Outdoor Family Aquatic Center, Helen Wessler Outdoor Pool, Howard Moore Outdoor Play Pool, and Hugh Smith Indoor Pool.

Randol Mill Swimming Pool

1924 W. Randol Mill Road
 Arlington, TX
 817-275-7542



At the Randol Mill Swimming Pool, programming includes swim lessons, special events, and rentals.

Randol Mill Swimming Pool	
Amenities	
Zero-depth Outdoor Pool	
Current Channel	
Vortex	
Tot Pool	
Tumble Buckets	
Raindrop	
25-ft. Waterslide	
Party Pavilions	
Concessions	
Fees	
Daily	
Age 1 & Under	FREE
Age 13 mos. To 4	\$4.50
Age 5 to 11	\$5
Age 12+	\$5.50
Nonresident	
Age 1 & Under	FREE
Age 13 mos. To 4	\$6.50
Age 5 to 11	\$7
Age 12+	\$7.50
Season Pass	
Less than 48"	\$45
48"+	\$55
Nonresident	
Less than 48"	\$65
48"+	\$75

Bad Konigshofen Outdoor Family Aquatic Center

2800 West Sublett Road

Arlington, TX

817-459-5223



The City of Arlington’s agrarian style aquatic center, located in SJ Stovall Park, offers the design of a quaint region of Germany. Programming includes swim lessons, birthday parties and rentals for special occasions.

Bad Konigshofen	
Amenities	
4 lane 25-meter Outdoor Pool	
Zero-depth Entry Leisure Pool	
1-meter Diving Board	
2 Waterslides	
Shade Structures	
Concessions	
Sprayground	
Fees	
Daily	
Age 1 & Under	FREE
Age 13 mos. To 4	\$4.50
Age 5 to 11	\$5
Age 12+	\$5.50
Nonresident	
Age 1 & Under	FREE
Age 13 mos. To 4	\$6.50
Age 5 to 11	\$7
Age 12+	\$7.50
Season Pass	
Less than 48"	\$45
48"+	\$55
Nonresident	
Less than 48"	\$65
48"+	\$75

Helen Wessler Outdoor Pool

2310 Greenway
 Arlington, TX
 817-275-7561



The City of Arlington’s Helen Wessler Park was renovated in 1996.

Helen Wessler Pool	
Amenities	
Shallow Water Outdoor Play Pool	
Participatory Play Feature	
Vending Machines	
Fees	
Daily	
Age 1 & Under	FREE
Age 13 mos. to 11	\$3
Age 12+	\$3.50
Nonresident	
Age 1 & Under	FREE
Age 13 mos. to 11	\$3.50
Age 12+	\$4
Season Pass	
Less than 48"	\$45
48"+	\$55
Nonresident	
Less than 48"	\$65
48"+	\$75

Howard Moore Outdoor Play Pool

1999 Bever Blvd.

Arlington, TX

817-275-0712



Howard Moor Outdoor Pool	
Amenities	
Shallow Water Outdoor Play Pool	
Participatory Play Feature	
Vending Machines	
Fees	
Daily	
Age 1 & Under	FREE
Age 13 mos. to 11	\$3
Age 12+	\$3.50
Nonresident	
Age 1 & Under	FREE
Age 13 mos. to 11	\$3.50
Age 12+	\$4
Season Pass	
Less than 48"	\$45
48"+	\$55
Nonresidnet	
Less than 48"	\$65
48"+	\$75

The City of Arlington’s Howard Moore Outdoor Play Pool, located in Howard Moore Park, was renovated in 2003.

Hugh Smith Indoor Pool

1815 New York Ave.

Arlington, TX

817-275-0513



Hugh Smith Indoor Pool	
Amenities	
25-yard Indoor Pool	
1-meter Diving Board	
Fees	
Daily	
Age Under 2	FREE
Age 2 to 11	\$3
Age 12+	\$3.50
Guest	\$6

The City of Arlington’s year-round indoor municipal pool is ADA accessible and offers swim lessons, aqua exercise classes, and Friday Night Family Nights.

Section 5: Development Concepts

Option 1 Splash Pad

Option 2 SNFAC

Option 3 NFAC

Option 4 MFAC

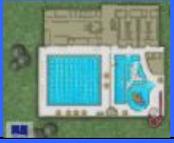
Option 5 LFAC

Option 6 Indoor

Option 7 Venue

Section 5: Development Concepts

The consultants developed 7 concepts for the city to consider.

DEVELOPMENT CONCEPT COMPARISON	
<p>Op. of Proj.Cost \$688,000</p> 	<p>Option 1 Splash Pad (Pad) –Interactive water play element with no standing water.</p>
<p>Op. of Proj.Cost \$3,220,000</p> 	<p>Option 2 Small Neighborhood Family Aquatic Center (SNFAC) – Outdoor multi-purpose recreation pool.</p>
<p>Op. of Proj.Cost \$4,540,000</p> 	<p>Option 3 Neighborhood Family Aquatic Center (NFAC) –Outdoor multi-purpose recreation pool with short course competition pool.</p>
<p>Op. of Proj.Cost \$9,000,000</p> 	<p>Option 4 Medium Family Aquatic Center (MFAC) –Outdoor recreation pool and a separate short course competition pool.</p>
<p>Op. of Proj.Cost \$12,490,000</p> 	<p>Option 5 Large Family Aquatic Center (LFAC) – Outdoor recreation pool and a long course competition pool.</p>
<p>Op. of Proj.Cost \$13,960,000</p> 	<p>Option 6 Indoor Aquatic Center (Indoor) – Indoor competition and recreation pool.</p>
<p>Op. of Proj.Cost \$29,820,000</p> 	<p>Option 7 Indoor 50 Meter Competition Pool (Venue) – Indoor 50 meter pool, dive well with platform diving, and an indoor leisure pool.</p>

Option 1

Splash Pad (Pad) –Interactive water play element with no standing water.

\$688,000

Option 1 features a 1,800 square foot splash pad with bright and cheery play elements. These water play elements unpredictably spray water when children pass under them, by them or touch them. Splash pads are engineered to be vandal-resistant, safe, durable, and entertaining—visit after visit. Moreover, splash pads are barrier free and wheelchair accessible and because there is no standing water, lifeguards are not necessary. This lively park enhancement offers families an exciting new way to enjoy a summer day. Filtration includes a UV sanitizer.

Benefits of UV include:

- Effective against all micro-organisms
- Improves water quality with less chloramines
- Reduces chloramines (combined chlorine) to below 0.2 parts per million (ppm)
- Treats total water flow
- Reduces or eliminates need to superchlorinate
- Not hazardous
- Simple and reliable
- Requires no daily maintenance
- Requires minimal space



OPTION 1 CONCEPTUAL REPRESENTATION



NOT TO SCALE

OPINION OF PROJECT COST: PAD			
Description	Unit	Amount	Opinion of Cost
Aquatics		1,800	\$462,000
Splash Pad	Sq. Ft.	1,800	
Interactive Play Features	Allowance	1	
Vault (Grey water/ Filtration)	Quantity	1	
Equipment (Irrigation/Filtration)	Quantity	1	
UV Sanitizer	Quantity	1	
Total Building Construction Costs			462,000
Site Construction Costs (landscaping, utilities, walks)			\$45,000
Demolition			\$0
Subtotal			\$507,000
Inflation (2 year)	10%		\$50,700
Contingency	10%		\$55,770
Indirect Costs	12%		\$73,616
Opinion of Probable Cost			\$687,086
Say			\$688,000
Source: Counsilman-Hunsaker			

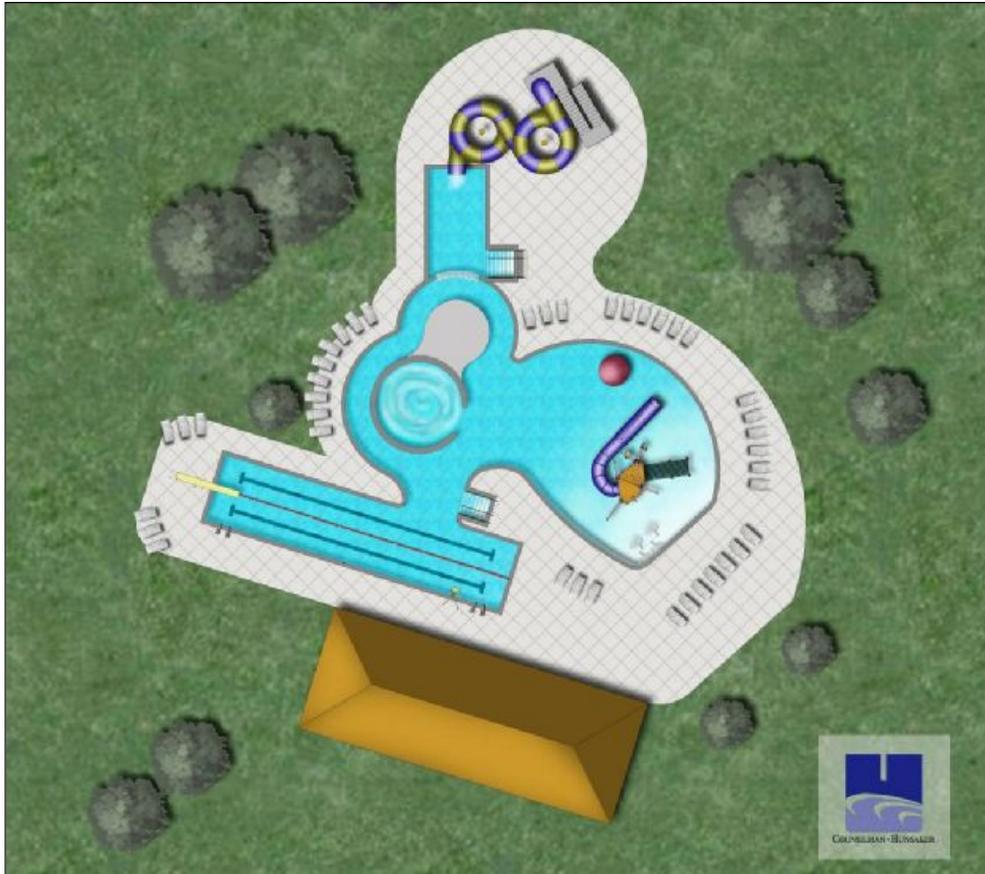
Option 2: Small Neighborhood Family Aquatic Center (SNFAC) – Outdoor multi-purpose recreation pool.

\$3,220,000

Option 2's Small Neighborhood Family Aquatic Center features a 5,100 square foot outdoor multipurpose pool with zero-depth entry, a safe and easy way for everyone to enter the pool without steps or ladders. A waterslide provides thrills and spills for teens and daring adults while a participatory play feature, located near the zero-depth entry, offers activities for children to crawl across tunnels, scamper through spraying water, climb across bridges, and slide down waterslides. A diving board springs into action while an almost silent vortex beckons guests to enter into its swirling waters and enjoy its hydro effects. A current channel provides a serene journey for all ages as well as a great water walking opportunity against the current. Also included are four shade structures, vending machine area, and a bathhouse with a family changing room and locker rooms.



OPTION 2 CONCEPTUAL REPRESENTATION



NOT TO SCALE

OPINION OF PROJECT COST: NFAC			
Description	Unit	Amount	Opinion of Cost
Demolition			Not Included
Bathhouse		2,731	\$476,063
Lobby / Entrance	Sq. Ft.	100	
Managers Office	Sq. Ft.	125	
Guard Room/ First Aid	Sq. Ft.	100	
Pool Mechanical	Sq. Ft.	650	
Building Mechanical	Sq. Ft.	250	
Storage	Sq. Ft.	250	
Locker Rooms	Sq. Ft.	700	
Family Changing Room	Sq. Ft.	100	
Vending	Sq. Ft.	100	
Efficiency	Sq. Ft.	356	
Aquatics		5,100	\$1,316,500
Multipurpose Pool	Sq. Ft.	5,100	
Waterslide (A)	Quantity	1	
Participatory Play Feature	Allowance	1	
Vortex	Add. Cost	1	
Current Channel	Add. Cost	1	
Diving Board	Quantity	1	
Support			\$230,000
Outdoor Deck	Sq. Ft.	6,120	
Fence	Linear Ft.	500	
Overhead Lighting	Sq. Ft.	11,220	
Equipment	Allowance	1	
Shade Structures	Quantity	4	
Total Building Construction Costs			2,022,563
Site Construction Costs (parking lot, landscaping, utilities, walks)			\$348,781
Land Acquisition			Not Included
Subtotal			\$2,371,344
Inflation (2 year)	10.0%		\$237,134
Contingency	10.0%		\$260,848
Indirect Costs	12.0%		\$344,319
Opinion of Project Costs			\$3,213,650
Say			\$3,220,000
Source: Counsilman-Hunsaker			

Option 3

Neighborhood Family Aquatic Center (NFAC) – Outdoor multi-purpose recreation pool with short course competition pool.

\$4,540,000

Option 3's Neighborhood Family Aquatic Center features an 8,457 square foot leisure pool where children can romp in the zero-depth entry and make a big splash on the participatory play feature. This colorful "wet playground" provides climbing opportunities with operating valves, sprays, and slides for hands-on activities. Two waterslides with catch pool offer plunging excitement for children, teens, and adventurous adults. A six lane short course competition pool provides swim events in the summer season and will accommodate water exercise, aerobic classes, swim team training, and many other aquatic lessons. Also included are six shade structures, vending machine area, and a bathhouse with a family changing room and locker rooms.



OPTION 3 CONCEPTUAL REPRESENTATION



NOT TO SCALE

OPINION OF PROJECT COST: NFAC			
Description	Unit	Amount	Opinion of Cost
Demolition			Not Included
Bathhouse		2,904	\$500,438
Lobby / Entrance	Sq. Ft.	100	
Managers Office	Sq. Ft.	125	
Guard Room / First Aid	Sq. Ft.	100	
Pool Mechanical	Sq. Ft.	750	
Building Mechanical	Sq. Ft.	250	
Storage	Sq. Ft.	300	
Locker Rooms	Sq. Ft.	700	
Family Changing Room	Sq. Ft.	100	
Vending	Sq. Ft.	100	
Efficiency	Sq. Ft.	379	
Aquatics		8,457	\$2,011,830
Multipurpose Pool	Sq. Ft.	8,457	
Waterslide (A)	Quantity	1	
Waterslide (B)	Quantity	1	
Participatory Play Feature	Allowance	1	
Support			\$297,355
Outdoor Deck	Sq. Ft.	10,148	
Fence	Linear Ft.	600	
Overhead Lighting	Sq. Ft.	18,605	
Equipment	Allowance	1	
Shade Structures	Quantity	6	

Description	Unit	Amount	Opinion of Cost
Total Building Construction Costs			2,809,623
Site Construction Costs (parking lot, landscaping, utilities, walks)			\$537,729
Land Acquisition			Not Included
Subtotal			\$3,347,351
Inflation (2 year)	10.0%		\$334,735
Contingency	10.0%		\$368,209
Indirect Costs	12.0%		\$486,035
Opinion of Project Costs			\$4,536,340
Say			\$4,540,000
Source: Counsilman-Hunsaker			

Option 4

Medium Family Aquatic Center (MFAC) –Outdoor recreation pool and a separate short course competition pool.

\$9,000,000

Option 4's outdoor Medium Family Aquatic Center features a recreation pool and a separate short course competition pool. The 6-lane 25 yard competition pool with two diving boards provides swim events in the summer season and will accommodate water exercise, aerobic classes, swim team training, diving opportunities, and many other aquatic lessons. A 15,184 square foot leisure pool provides a swimming experience where parents can lounge in the zero-depth entry while keeping a watchful eye on younger children playing on the participatory play feature in the shallow water. Two waterslides and a drop slide offer plunging excitement for teens and adventurous families. An otter slide is child-friendly for those children who are not tall enough to ride the waterslide but too big for the play feature slide. Attached to the leisure pool is the current channel with water traveling at approximately three miles per hour, thus creating a floating adventure or an opportunity for walking against the current as a non-programmed or programmed fitness activity. A 1,550 square foot tot pool with play features and kiddie slide offers Richardson's youngest guests a safe place to enjoy early aquatics. Also included are nine shade structures, a 1,000 square foot pavilion, vending machine area, and a bathhouse with two family changing rooms and locker rooms.



OPTION 4 CONCEPTUAL REPRESENTATION



NOT TO SCALE

OPINION OF PROJECT COST: MFAC			
Description	Unit	Amount	Opinion of Cost
Demolition			\$150,000
Bathroom Renovation		7,665	\$613,180
Lobby	Sq. Ft.	140	
Managers Office	Sq. Ft.	100	
Guard Room / First Aid	Sq. Ft.	125	
Pool Mechanical	Sq. Ft.	2,300	
Building Mechanical	Sq. Ft.	300	
Storage	Sq. Ft.	750	
Locker Rooms	Sq. Ft.	2,600	
Family Changing Room (2)	Sq. Ft.	250	
Vending	Sq. Ft.	100	
Efficiency	Sq. Ft.	1,000	
Aquatics		19,884	\$4,694,380
Leisure Pool	Sq. Ft.	15,184	
Waterslide (A)	Quantity	1	
Waterslide (B)	Quantity	1	
Participatory Play Feature	Allowance	1	
Otter Slide	Quantity	1	
Lily Pad Floatable Walk	Quantity	4	
Current River	Add. Cost	2	
Lap Pool (6 Lane 25 Yard)	Sq. Ft.	3,150	
Drop Slide	Quantity	1	
Springboard Diving	Quantity	2	
Tot Pool	Sq. Ft.	1,550	
Play Features	Allowance	1	
Kiddie Slide	Quantity	1	
Support			\$708,662
Outdoor Deck	Sq. Ft.	29,826	
Fence	Linear Ft.	900	
Overhead Lighting	Sq. Ft.	49,710	
Equipment	Allowance	1	
Pavillion	Sq. Ft.	1,000	
Shade Structures	Quantity	9	

Description	Unit	Amount	Opinion of Cost
Total Building Construction Costs			6,166,222
Site Construction Costs (parking lot, landscaping, utilities, walks)			\$573,748
Subtotal			\$6,739,970
Inflation (2 year)	10.0%		\$673,997
Contingency	10.0%		\$741,397
Indirect Costs	10.0%		\$815,536
Opinion of Project Costs			\$8,970,900
Say			\$9,000,000
Source: Counsilman-Hunsaker			

Option 5

Large Family Aquatic Center (LFAC) – Outdoor recreation pool and a long course competition pool.

\$12,490,000

The trend of mixing elegant pools, adventurous settings, and whimsically playful areas for passive and active swimmers indicates the rise in Large Family Aquatic Centers. Option 5 accommodates the competitive and recreation aquatic needs of the residents of Richardson in a WOW aquatic environment. In addition to being very attractive to recreation swimmers, this option is designed to meet the needs of many organized swimming events with a heated 50-meter championship pool, four diving boards, and a bulkhead to provide swim team training simultaneously with water exercise, aerobic classes, diving opportunities, and other aquatic lessons for the community. The recreation component of this concept consists of a heated 9,800 square foot leisure pool with zero-depth entry for easy access into the water. Two waterslides ensure lifelong memories of plunging into the aquatic paradise as well as a physical challenge of climbing the stairs over and over. A participatory play feature, spray features, lily pad walk, vortex, and current channel offer the amenities of a luxury resort and the thrills and spills of a small waterpark. A 1,000 square foot spray pad provides gentle spray features for little ones. Also included are a 1,000 square foot pavilion, eleven shade structures, vending machine area, and a bathhouse with two family changing rooms and locker rooms.



OPTION 5 CONCEPTUAL REPRESENTATION



NOT TO SCALE

OPINION OF PROJECT COST: LFAC			
Description	Unit	Amount	Opinion of Cost
Demolition			\$0
Bathhouse		12,360	\$2,189,250
Lobby	Sq. Ft.	350	
Managers Office	Sq. Ft.	125	
Recep Office	Sq. Ft.	125	
Guard Room / First Aid	Sq. Ft.	250	
Pool Mechanical	Sq. Ft.	3,500	
Building Mechanical	Sq. Ft.	750	
Storage	Sq. Ft.	1,000	
Locker Rooms	Sq. Ft.	3,750	
Family Changing Room (2)	Sq. Ft.	350	
Vending	Sq. Ft.	100	
Efficiency	Sq. Ft.	2,060	
Seasonal Aquatics		23,459	\$5,168,400
50 Meter Competitive Pool	Sq. Ft.	12,640	
Bulkhead (6' wide)	Quantity	1	
Diving Boards	Quantity	4	
Pool Heater	Quantity	1	
Recreation Pool	Sq. Ft.	9,800	
Waterslide (A)	Quantity	1	
Waterslide (B)	Quantity	1	
Participatory Play Feature	Allowance	1	
Spray Features	Add. Cost	2	
Lily Pad Walk	Quantity	4	
Current Channel	Add. Cost	2	
Vortex	Add. Cost	1	
Pool Heater	Quantity	1	
Spray Pad	Sq. Ft.	1,000	
Spray Features	Allowance	1	
Seasonal Support		51,587	\$571,699
Outdoor Deck	Sq. Ft.	28,128	
Fence	Linear Ft.	908	
Overhead Lighting	Sq. Ft.	51,587	
Pavillion	Sq. Ft.	1,000	
Shade Structures	Quantity	11	

Description	Unit	Amount	Opinion of Cost
Total Building Construction Costs		63,947	7,929,349
Site Construction Costs (parking lot, landscaping, utilities, walks)			\$1,278,940
Furnishings and Equipment	Allowance		\$175,000
Subtotal			\$9,383,289
Inflation (2 year)	10.0%		\$938,329
Contingency	10.0%		\$1,032,162
Indirect Costs	10.0%		\$1,135,378
Opinion of Project Costs			\$12,489,158
Say			\$12,490,000
Source: Counsilman-Hunsaker			

Option 6

Indoor Aquatic Center (Indoor) – Indoor competition and recreation pool.

\$13,960,000

The climate-controlled natatorium offers a haven for competitive swimmers as well as plenty of action for those who wish to swim recreationally. Option 6 features an indoor 25-meter by 25-yard competition pool with two diving boards and 500 balcony seats. This pool is gaining in popularity in the competitive swimming market as it provides both short course lengths for training and meets. Recreation swimmers can laze away the day in the zero-depth entry of the leisure pool or work off energy in the current channel. Three lap lanes offer a vibrant aquatic workout in the beautiful natatorium while a play feature entices little ones to climb, crawl, scamper, and slide. The center provides another big draw at the waterslide, typically a favorite activity among recreation swimmers.



OPTION 6 CONCEPTUAL REPRESENTATION



NOT TO SCALE

OPINION OF PROJECT COST: INDOOR			
Description	Unit	Amount	Opinion of Cost
Demolition			\$0
Public Spaces		5,200	\$1,176,000
Lobby	Sq. Ft.	900	
Control / Cashier	Sq. Ft.	150	
Guard Room / First Aid	Sq. Ft.	150	
Concession / Kitchen Area	Sq. Ft.	400	
Restrooms M/W	Sq. Ft.	500	
Locker Rooms	Sq. Ft.	2,100	
Team Locker Rooms	Sq. Ft.	700	
Family Changing Room (2)	Sq. Ft.	300	
Aquatic Center		24,650	\$6,839,000
25 Meter by 25 Yard Pool	Sq. Ft.	6,200	
Springboard Diving	Quantity	2	
Competitive Natatorium	Sq. Ft.	12,000	
Leisure Pool (3 lanes)	Sq. Ft.	3,400	
Play Feature	Allowance	1	
Current Channel	Add. Cost	1	
Waterslide	Quantity	1	
Leisure Pool Natatorium	Sq. Ft.	8,000	
Balcony Seating (500 seats)	Sq. Ft.	3,000	
Pool Mechanical Room	Sq. Ft.	1,650	
Building Support		2,630	\$480,000
Building Mechanical	Sq. Ft.	1,900	
Electrical	Sq. Ft.	500	
Janitor	Sq. Ft.	50	
Elevator	Sq. Ft.	80	
Elevator Machine	Sq. Ft.	100	
Efficiency		6,496	\$974,400
Circulation and Walls (20%)	Sq. Ft.	6,496	

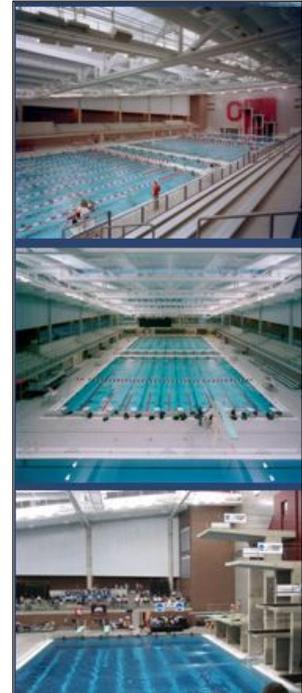
Description	Unit	Amount	Opinion of Cost
Total Building Construction Costs		38,976	9,469,400
Site Construction Costs (landscaping, utilities, walks)			\$779,520
Furniture, Fixtures, Equipment			\$234,000
Subtotal			\$10,482,920
Inflation (2 year)	10.0%		\$1,048,292
Contingency	10.0%		\$1,153,121
Indirect Costs	10.0%		\$1,268,433
Opinion of Probable Cost			\$13,952,767
Say			\$13,960,000
Source: Counsilman-Hunsaker			

Option 7

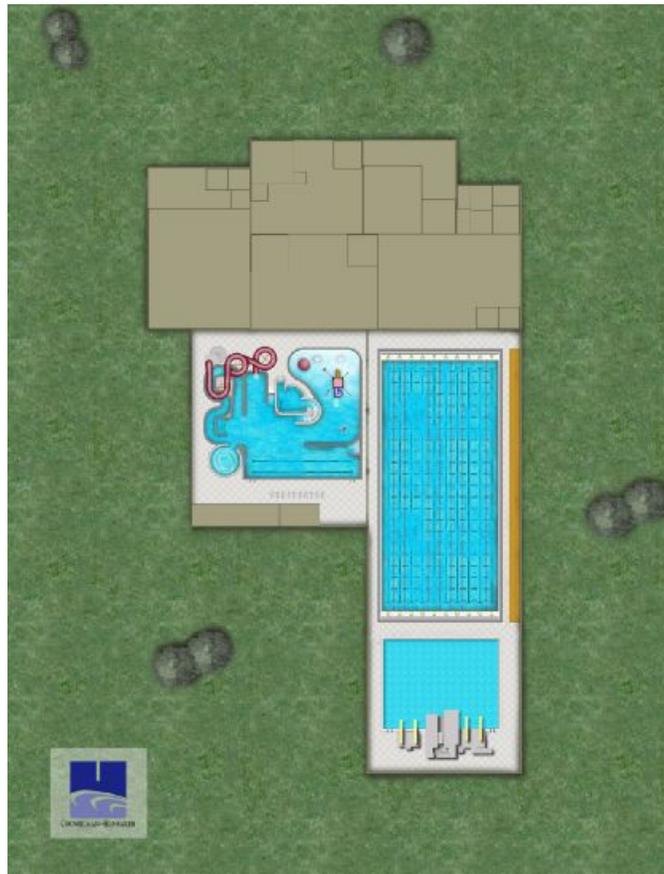
Indoor 50 Meter Competition Pool (Venue) – Indoor 50 meter pool, dive well with platform diving, and an indoor leisure pool

\$29,820,000

Option 7's natatorium competition venue is designed to meet the needs of year-round major swimming meets as well as year-round programming for aquatics, fitness, and lessons. Features include an indoor 50-meter competition pool with four springboards, one platform dive, and an air sparger system that cushions a diver's entry into the water. The movable floor alters water depth for various purposes while the two movable bulkheads offer the versatility to accommodate other aquatic lessons, fitness, and activities in designated areas of the pool and consequently, revenue potential. The pool features fast water, large decks, and 1,500 balcony seats for spectators to view major long course events. This competition venue may generate revenue to hotels, restaurants, and retail businesses in the area when hosting major events. The indoor leisure pool with its gently sloping entry is designed to celebrate the senses as the outside world melts away. Three fitness lap lanes and a current channel provide water exercise while a play feature and waterslide offer the ultimate in barefoot fun for hours of climbing and sliding water entertainment. Also included is a 3,000 square foot multipurpose room and catering area as well as locker rooms.



OPTION 7 CONCEPTUAL REPRESENTATION



NOT TO SCALE

Description	Unit	Amount	Opinion of Cost
Entrance		1,550	\$276,750
Basic Lobby	Sq. Ft.	800	
Check-in Desk	Sq. Ft.	250	
Store	Sq. Ft.	500	
Office Space		870	\$136,050
Facility Manager	Sq. Ft.	120	
Aquatic Coordinator	Sq. Ft.	100	
Lifeguard/First Aid	Sq. Ft.	150	
Coaches Workspace	Sq. Ft.	200	
Office Storage	Sq. Ft.	300	
Shared Areas		3,700	\$633,000
Multi-Purpose Room	Sq. Ft.	3,000	
Storage	Sq. Ft.	300	
Catering Area	Sq. Ft.	400	
Restroom Areas		4,100	\$984,000
General Locker Rooms (M/W)	Sq. Ft.	2,250	
Family Changing Rooms (2)	Sq. Ft.	150	
Second Floor Restrooms (M/W)	Sq. Ft.	200	
Men's Team Locker Room	Sq. Ft.	750	
Women's Team Locker Room	Sq. Ft.	750	
Competitive Natatorium		42,270	\$12,963,900
50 Meter Pool (172' X 75')	Sq. Ft.	12,900	
Bulkhead	Quantity	2	
Moveable Floor	Quantity	1	
Diving Pool	Sq. Ft.	4,500	
Springboard Diving	Quantity	4	
Sparger	Quantity	1	
Platform Diving	Quantity	1	
Deck Shower Area	Sq. Ft.	50	
Natatorium Enclosure	Sq. Ft.	31,320	
Spectator Seating (1500 seats)	Sq. Ft.	9,000	
Pool Mechanical Room	Sq. Ft.	1,200	
General Pool Storage	Sq. Ft.	750	

Recreation Natatorium		8,300	\$3,020,560
Leisure Pool (3 lanes)	Sq. Ft.	5,800	
Play Feature	Allowance	1	
Current Channel	Add. Cost	1	
Waterslide	Quantity	1	
Leisure Pool Natatorium	Sq. Ft.	8,000	
General Pool Storage	Sq. Ft.	300	
Building Support		2,530	\$466,000
Building Mechanical	Sq. Ft.	1,850	
Electrical	Sq. Ft.	450	
Janitor	Sq. Ft.	50	
Elevator	Sq. Ft.	80	
Elevator Machine	Sq. Ft.	100	
Circulation/Walls		12,664	\$2,152,880
80% efficiency	Sq. Ft.	12,664	
Total Square Footage	Sq. Ft.	75,984	\$20,633,140
Furnishings and Equipment	Allowance		\$456,000
Site Construction Costs	Allowance		\$1,520,000
Subtotal			\$22,609,140
Inflation (2 years)	10%		\$2,260,914
Contingency	10%		\$2,487,005
Indirect Costs	9%		\$2,462,135
Total Estimated Project Costs:			\$29,819,195
Say			\$29,820,000
Source: Counsilman-Hunsaker			

APPENDIX A: REFERENCE

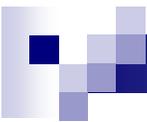
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APPENDIX II
CITIZEN SURVEY RESULTS



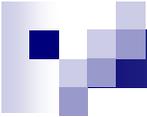
City of Richardson Park & Recreation Needs Assessment Study

Preliminary
Executive Summary
October 2, 2009



Introduction and Methodology

- **National Service Research (NSR)** completed a comprehensive research study for the City of Richardson, Texas as part of the Comprehensive Park and Recreation Master Plan. An important aspect of the Master Plan was to conduct a demand and needs assessment which involved citizen input. The purpose of the needs assessment study was to provide a foundation for the Comprehensive Park and Recreation Master Plan that will provide guidance based upon citizen needs and priorities. NSR worked closely with MHS Planning and Design and the City of Richardson staff throughout the research process.
- In order to complete this study effort, National Service Research, MHS Planning and Design conducted a public meeting on July 27 and two focus groups on July 30 to understand the needs of the citizens. The project team also interviewed community leaders, city council, allied partners, and city staff to understand additional community needs. The results of these discussions assisted in the design of the survey document. NSR mailed 7,000 surveys proportionately to five sectors in Richardson. A total of 525 mail surveys were returned and computer processed. NSR also provided an online survey link to the City of Richardson which was posted on their web site. A total of 140 survey responses were received via the online survey for a total of 665 surveys. The margin of error of this sample size at a 95% confidence level is plus or minus 4%. The citizen survey and detailed survey results are presented in the Appendix of the technical volume report.



Summary of Key Findings

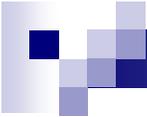
Focus Groups/Public Meeting

Respondents commented that Richardson is a unique community in many ways. Respondents valued these characteristics and would like them to be continued:

- A small family oriented town with good community values nestled into a large urban area.
- Good schools and government with exceptional staffs
- Strong sense of community (people invest here)
- Small city character should be maintained
- More people work here than live here
- There is a need to attract young families to take the place of an aging population
- There are strong partnerships between the City and Richardson ISD, UT Dallas, Richland College and Dallas County – these partnerships should be continued and expanded.
- Richardson's geographic location in the metroplex is a key asset

Needs/Vision of the current park & open space system:

- Trails that connect into a true network – some soft surfaced
- Natural areas (nature interpretation/marked wildlife habitat areas)
- Dog parks
- Shade (in parks and along trails, more trees)
- Further development of Breckinridge Park
- A signature project that is the nucleus of Richardson
- A new park to serve the southwestern portion of town



Summary of Key Findings

Focus Groups/Public Meeting

- Transform underutilized land uses i.e. old commercial centers into green spaces and parks
- More cultural programs i.e. plays and concerts in the parks
- More park facilities specifically for teens and seniors
- Additional landscaping in some of the smaller parks to add character and beauty – move them being functional to being inviting and fun
- Utilize native landscaping that requires less maintenance and water
- Community gardens
- Disc golf courses
- Spray grounds/parks
- Indoor pool (horizontal and vertical water)
- Multi-use building
- Outdoor amphitheater
- Update indoor facilities
- More benches (utilize natural sitting elements like rocks, tree trunks)
- Skate park
- Mountain bike trails
- Indoor gym
- Baseball amenities
- Lighted playing fields for practice and games

Summary of Key Findings - Citizen Survey

Maintenance

- Respondents feel the trails and parks are well maintained with most respondents rating maintenance as excellent or good.
- The pools and recreation centers need some improvements as cited by the respondents.
- Very few respondents noted improvements are needed at the tennis center and senior center.

Park Facility Priorities

- It is clear citizens want additional trail connections throughout the city with nature trails. greenway corridors and open spaces/natural areas also being a priority.
- Other top priorities were (in order of priority); a new indoor pool, a dog park, botanic gardens, spray grounds, additional benches/seating areas, a new outdoor aquatic center, a senior center and a community garden.
- A new indoor pool (leisure, therapeutic, lap, sport, competition) ranked number two and an outdoor aquatic facility ranked ninth.

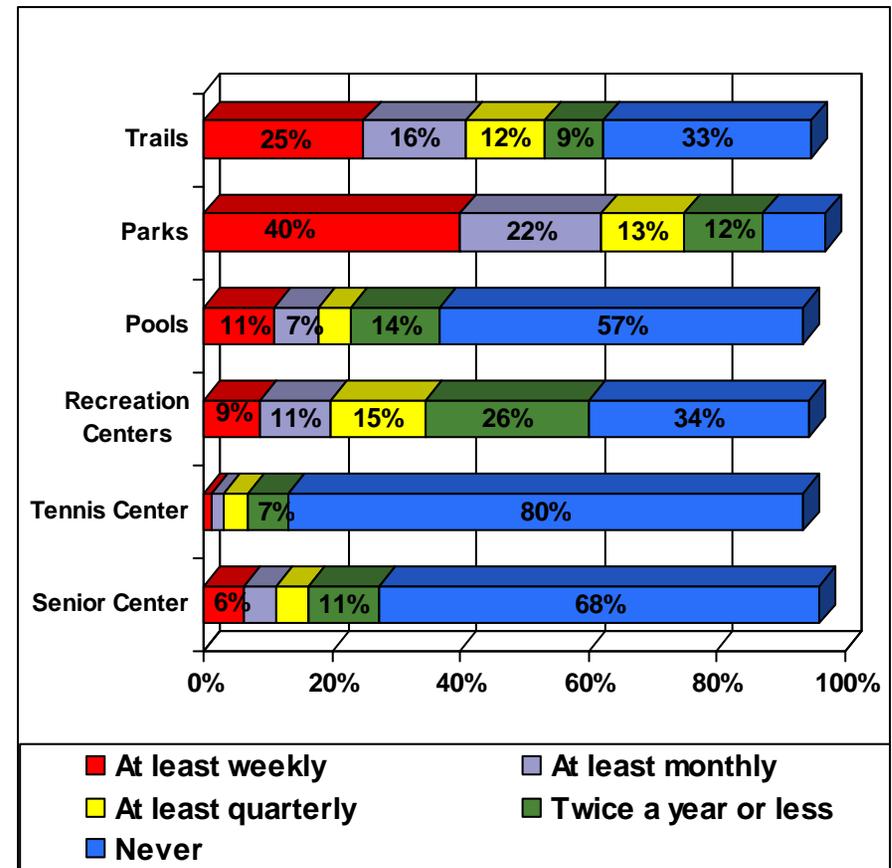
Aquatic Priorities

- When presented with several options as to how to provide aquatics to the citizens considering the aging five pools, their top option was to retain two or three pools and build an aquatic facility.
- Top aquatic amenities (in order of priority) were that the facility should be indoor, provide fitness/lap swimming, a flowing river and a zero depth entry.
- The number one ranked priority was that the facility should be indoor. The number five ranked priority was that the facility be outdoor.
- Other priorities were a play area with water features, a beach area, a water spray ground, a diving area, an Olympic sized 50 meter pool and a picnic area.

The findings herein will provide a foundation to guide the master plan priorities.

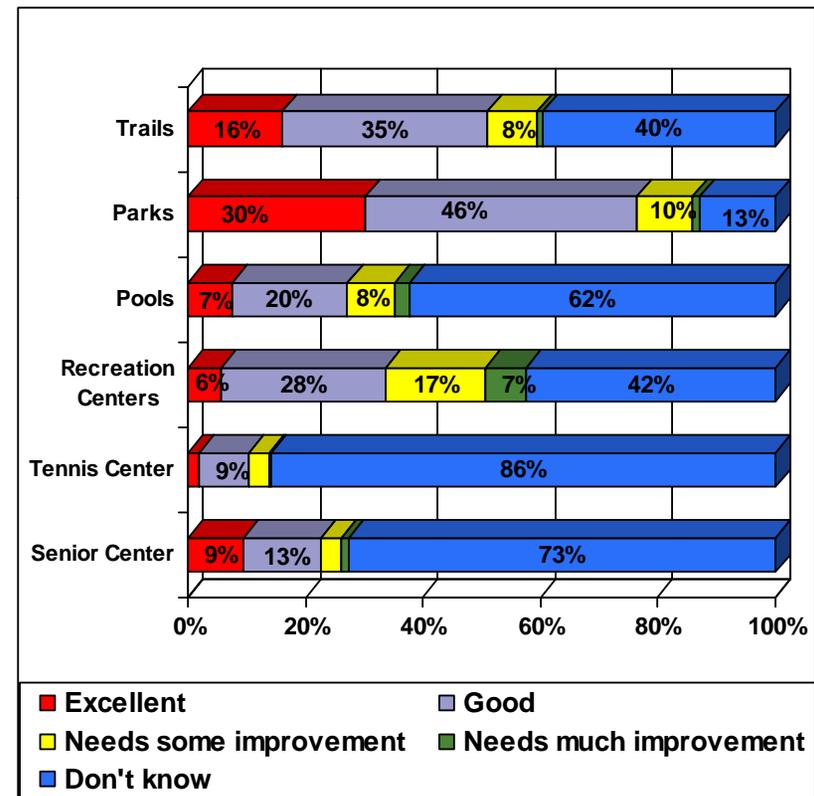
Frequency of Visiting Parks and Facilities in Richardson Within the Past Year

- Trails/greenbelts and parks are the most heavily used of the park facilities.
- Pools are heavily used by households with children – 29% of households with children 10 years of age or younger use the pools weekly.
- Recreation centers are used more by households with children.
- 65% of survey respondents age 65 or older use the Senior Center at least twice a year or more.
- The tennis center at Huffhines Park is used more by households with children aged 11 to 18.



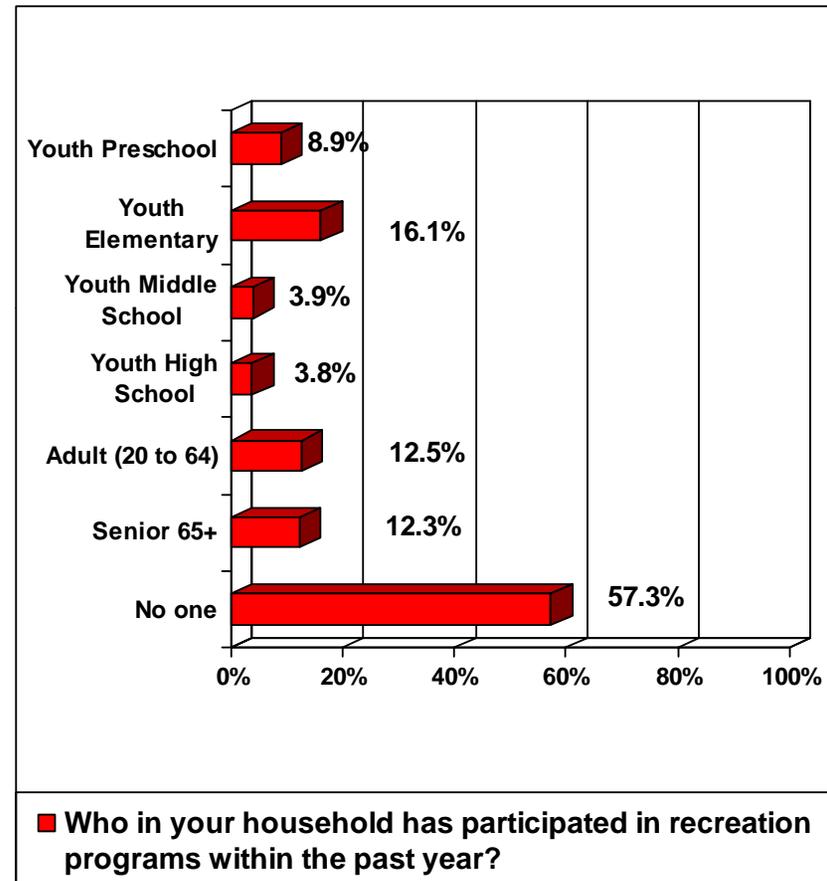
Maintenance Rating of Parks and Facilities in Richardson

- It is clear that the surveyed respondents feel the trails and parks are well maintained with most respondents rating maintenance as excellent or good.
- The pools and recreation centers need some improvements as sited by the respondents.
- Very few respondents noted improvements are needed at the tennis center and senior center.



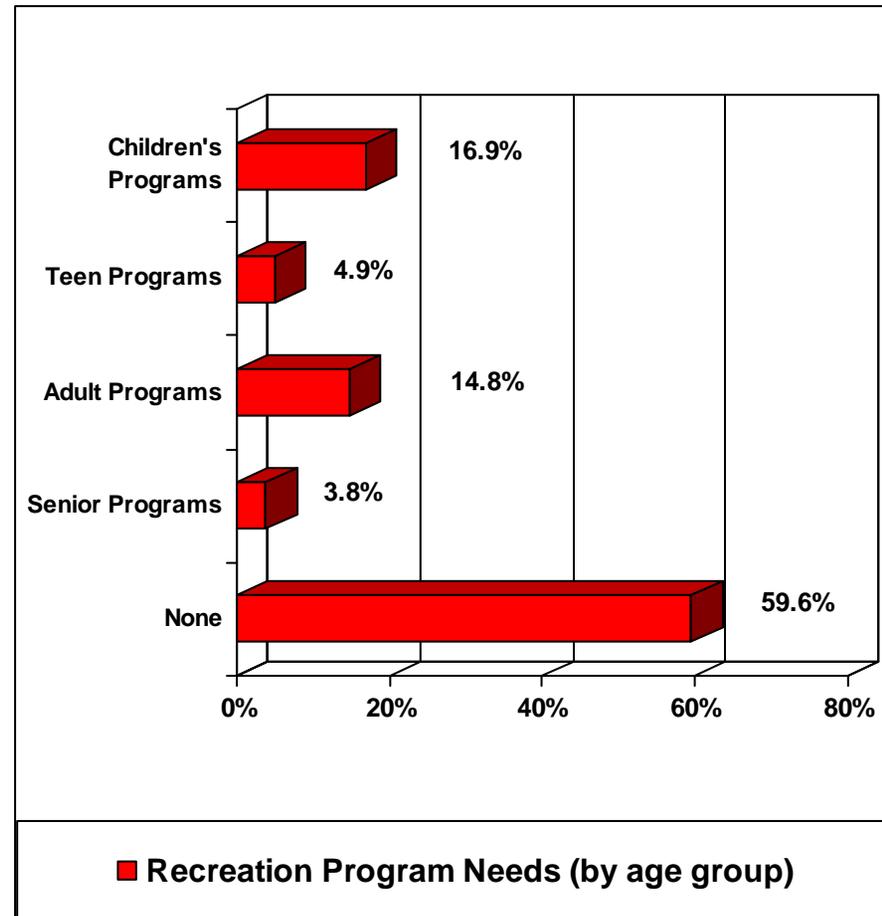
Recreation Program Participation

- Participation in recreation programs in Richardson is strong among youth groups.
- A fair number of adults and seniors participate in recreation programs.
- *These statistics indicate Richardson is providing programs that meet the needs of the citizens.*



Recreation Program Needs

- Program needs for children; t-ball, soccer for ages 4 and up, programs for special needs kids, more Mommy me programs, more classes for younger children (newborn to 3 years), more splash areas within the pool areas, art and science classes, boot camp programs, and toddler programs for working parents.
- Program needs for teens; skate park, piano and guitar lessons, arts and crafts.
- Program needs for Adults; co-ed soccer, indoor/outdoor volleyball leagues, Pilates and Yoga classes, photography, gardening, swim lessons, billiards, darts league, exercise classes during the evening, disc golf, indoor swimming opportunities, expanded work out facilities, basketball leagues and cooking and sewing classes.
- Senior program needs; exercise/fitness, diet tips, senior aerobics, and day trips,



Most Needed Recreation Facilities for Richardson

<u>Facility</u>	<u>Priority Score</u>
1. Additional hike/bike/jog trails with connections in the City	14.57
2. New indoor pool (leisure, therapeutic, lap, sport, competition)	9.60
3. Additional nature trails/greenway corridors	9.42
4. Dog park	9.48
5. Additional open space/natural areas	6.00
6. Botanic garden	5.33
7. New spray ground	4.37
8. Additional benches/seating areas	4.17
9. New outdoor aquatic center	3.64
10. Senior Center	3.40
11. Community garden	3.37
12. Additional picnic shelters	2.85
13. New amphitheater	2.44
14. Additional recreation center	2.22
15. Additional playgrounds	1.75
16. Additional baseball fields	1.72
17. New skate park	1.68

- Respondents were asked to rate in rank order the recreation facilities most needed in Richardson.
- NSR calculated a weighted score for each facility rated. A #1 or most important received a weight of 40%, #2 most important a weight of 25%, #3 most important 20%, #4 most important 10% and #5 most important 5%.
- The table at left shows the priority of facilities in rank order that are most needed.
- This chart will greatly assist in developing master plan priorities.

Source: National Service Research, Mail and Online Survey of 665 Richardson Residents, October 2009



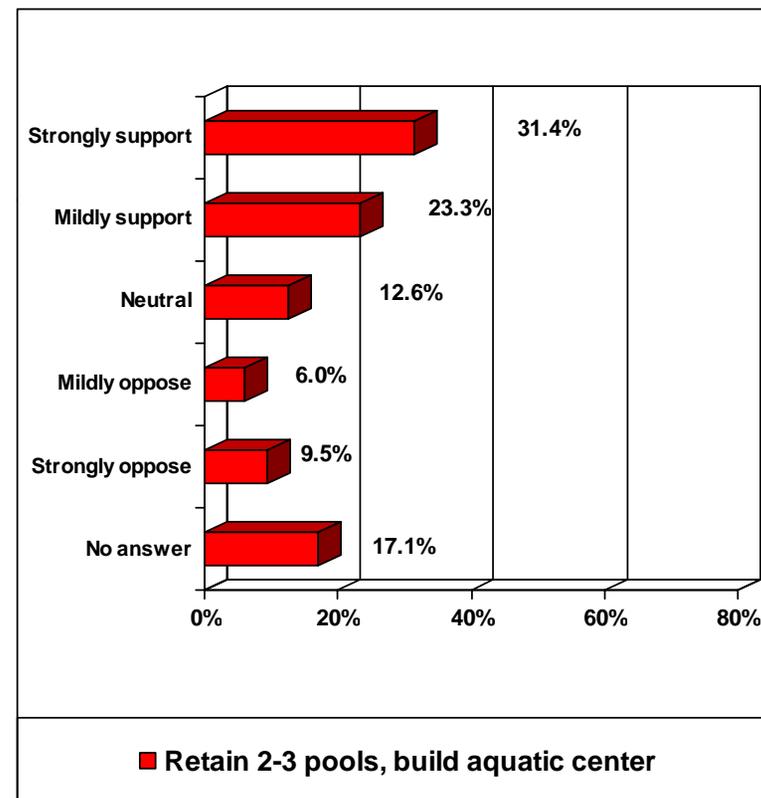
Most Needed Recreation Facilities for Richardson (Continued)

<u>Facility</u>	<u>Priority Score</u>
18. Additional soccer fields	1.57
19. New disc golf course	1.54
20. Additional basketball courts	1.45
21. Additional tennis courts	1.41
22. New BMX track	0.80
23. Additional softball fields	0.61
24. Additional football fields	0.55
25. Cricket fields	0.39
26. Lacrosse fields	0.37
27. Rugby fields	0.18

Opinions for Various Pool Options in Richardson

Option 1 - Retain Two or Three pools and Build an Aquatic Center

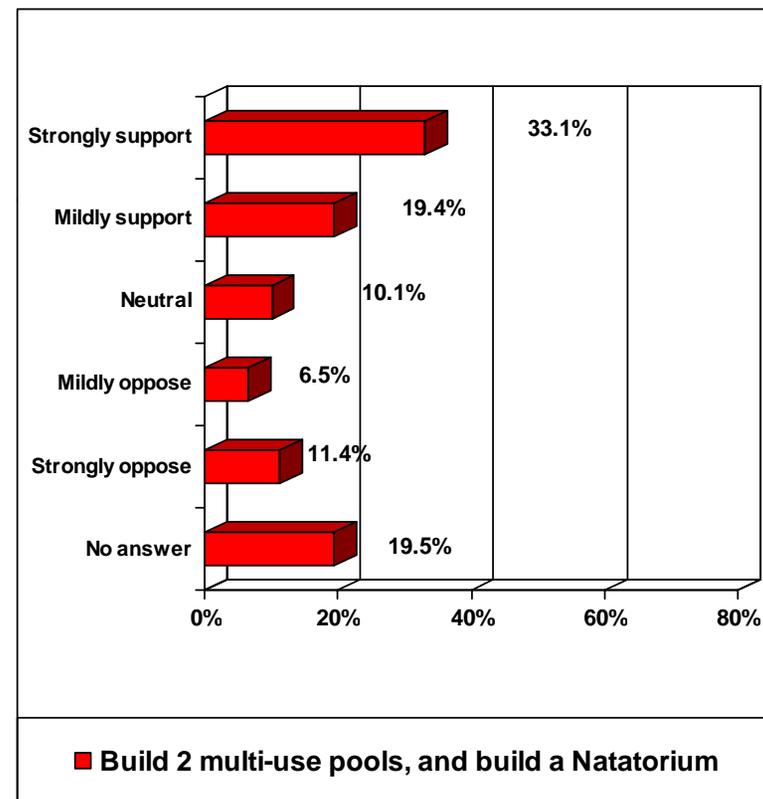
- The survey document explained the following: The City's pools are 40 to 50 years old and require significant upkeep and cost. The City is considering some new options such as an aquatic center with multiple pools, lap lanes as well as play and recreational areas. Survey respondents were asked to rate six different pool options.
- Retaining two or three pools and building an aquatic center had high support compared to the other pool options.
- This option was strongly supported by all age groups, and particularly by households with children.



Opinions for Various Pool Options in Richardson

Option 2 – Build Two Multi-Use Pools (one on each side of the City) and build a Natatorium. Close the existing 5 pools and replace them with another park amenity

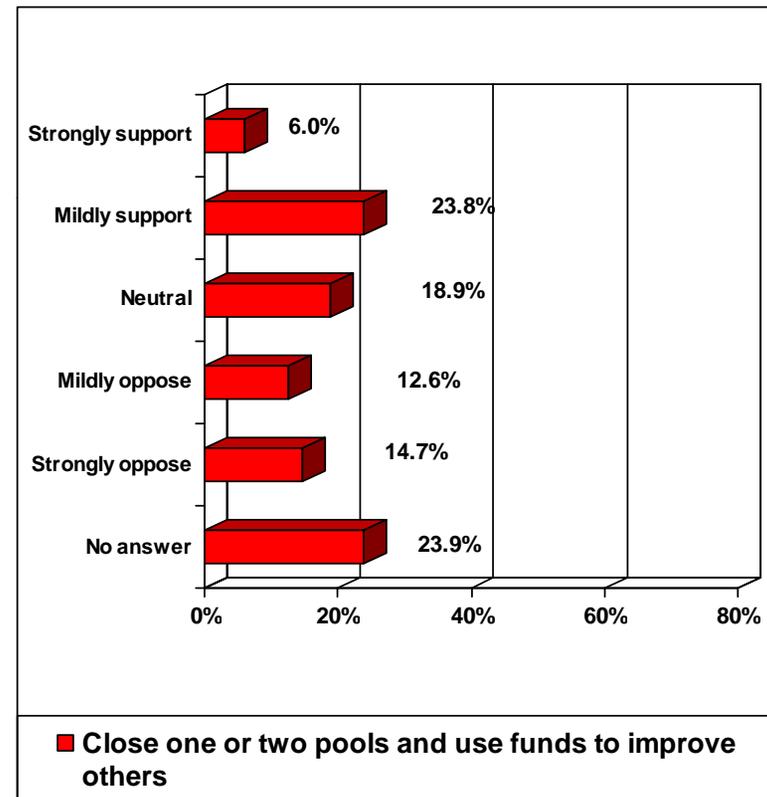
- Option 2 along with option 1 were the two most supported options presented to the respondents.
- This option was strongly supported by all age groups, and particularly by households with children.



Opinions for Various Pool Options in Richardson

Option 3 – Close One or Two Pools and Use Funds to Improve Others

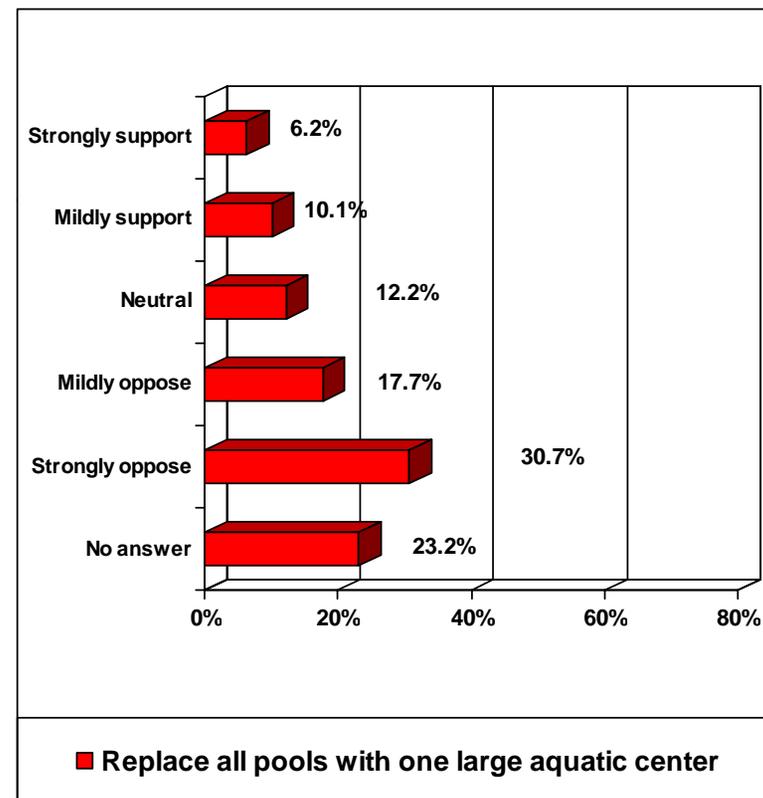
- This option received less support than Options 1 and 2.



Opinions for Various Pool Options in Richardson

Option 4 – Replace all Pools with One Large Aquatic Center

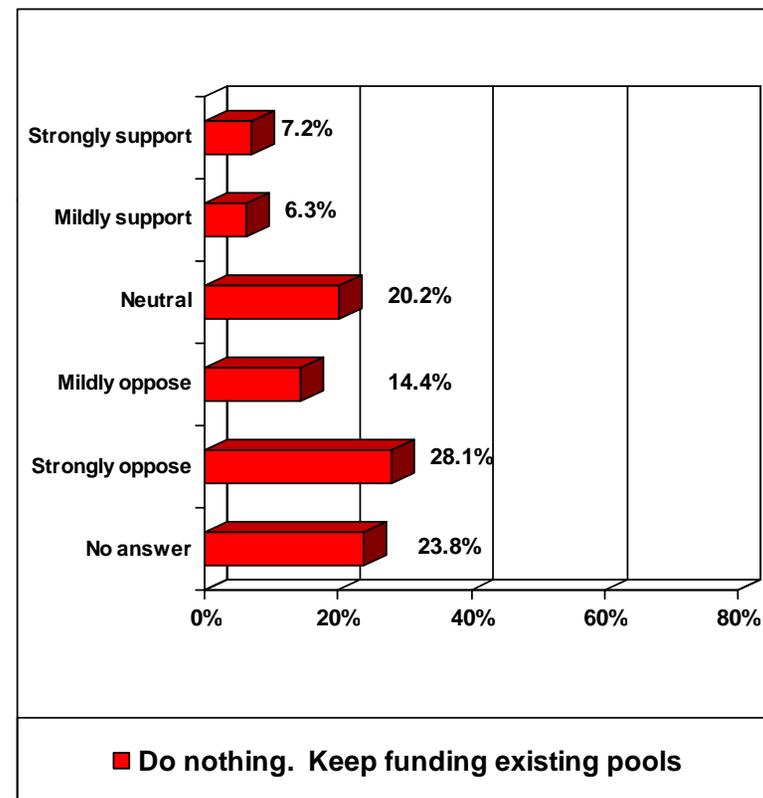
- This option received less support than Options 1, 2 or 3.



Opinions for Various Pool Options in Richardson

Option 5 – Do Nothing. Keep Funding Existing Pools

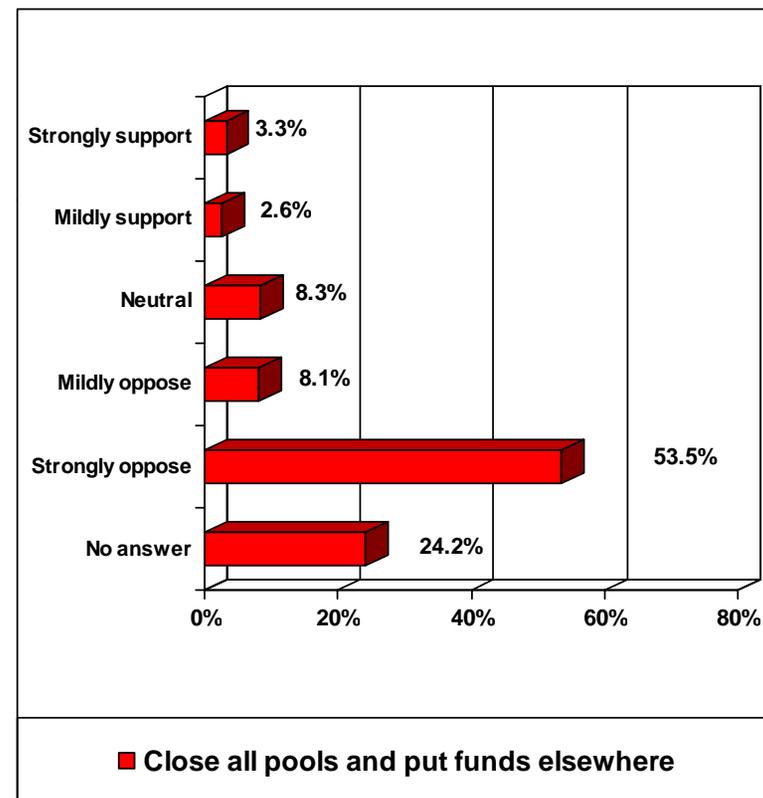
- This option received less support than Options 1, 2, 3 or 4.



Opinions for Various Pool Options in Richardson

Option 6 – Close All Pools and Put Funds Elsewhere

- This option received strong opposition.



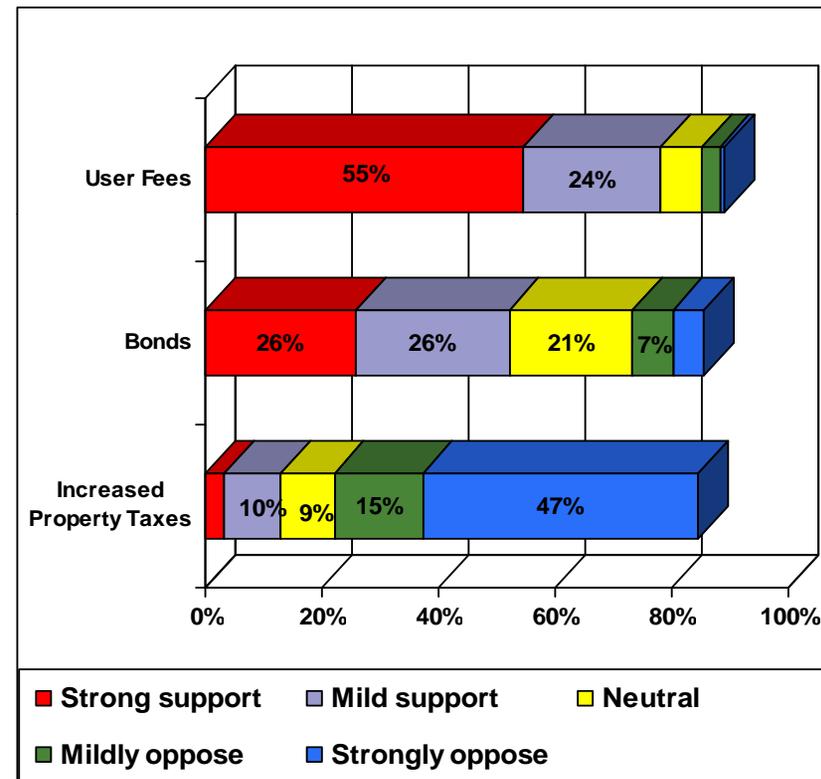
Preferred Amenities for an Indoor Aquatic Center or Improved Existing Pools

<u>Amenity</u>	<u>Priority Score</u>
1. A facility that is indoor	21.15
2. Fitness or lap swimming area	12.05
3. Zero depth entry	9.54
4. Flowing river for tubing and floating	8.76
5. Play area with water features	7.19
6. A facility that is outdoor	6.99
7. Water spray ground	4.90
7. Olympic sized 50 meter pool	4.48
7. Beach area	4.30
10. Picnic area	3.62
11. Diving area	3.19
12. Wave machine	2.70
13. Wading pool	2.62
14. Children's dry playground area nearby	2.50
15. Sand volleyball	2.02

- Respondents were asked to rate in rank order the amenities they preferred to have in an indoor aquatic center or improved existing pools in Richardson.
- NSR calculated a weighted score for each facility rated. A #1 or most important received a weight of 40%, #2 most important a weight of 25%, #3 most important 20%, #4 most important 10% and #5 most important 5%.
- The table at left shows the priority of amenities in rank order that are most needed.
- This chart will greatly assist in developing the aquatic master plan priorities.

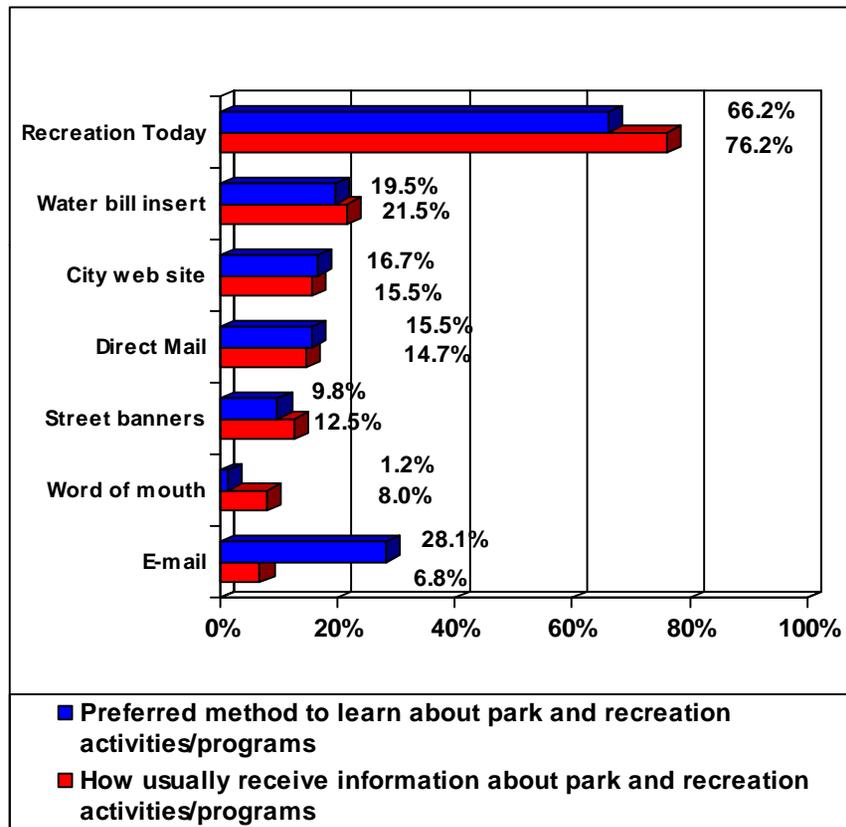
Funding Options for New Parks and Facilities and/or Additions to Existing Parks and Facilities

- Survey respondents are in favor of funding new and/or additions to parks and facilities with user fees and bonds.
- Few respondents support increased property taxes for funding mechanisms.



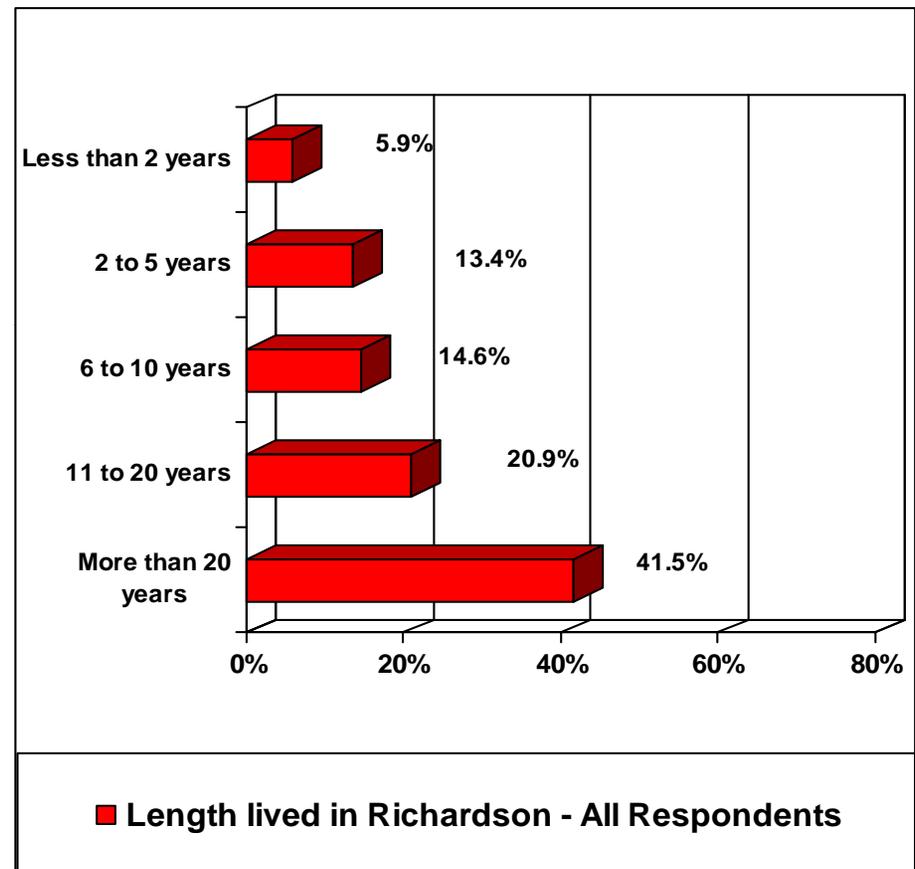
Park and Recreation Activity/Program Information

- Most residents find out about park and recreation programs and activities through Recreation Today, the water bill, City web site and flyers/direct mail.
- Preferred methods of receiving information varied little from how citizens are currently learning about park and recreation activities and programs, except 28% of respondents would like to get information via e-mail.
- *It is important for the City to utilize multiple methods to communicate information to citizens about recreation opportunities in the city for maximum exposure.*



Demographics

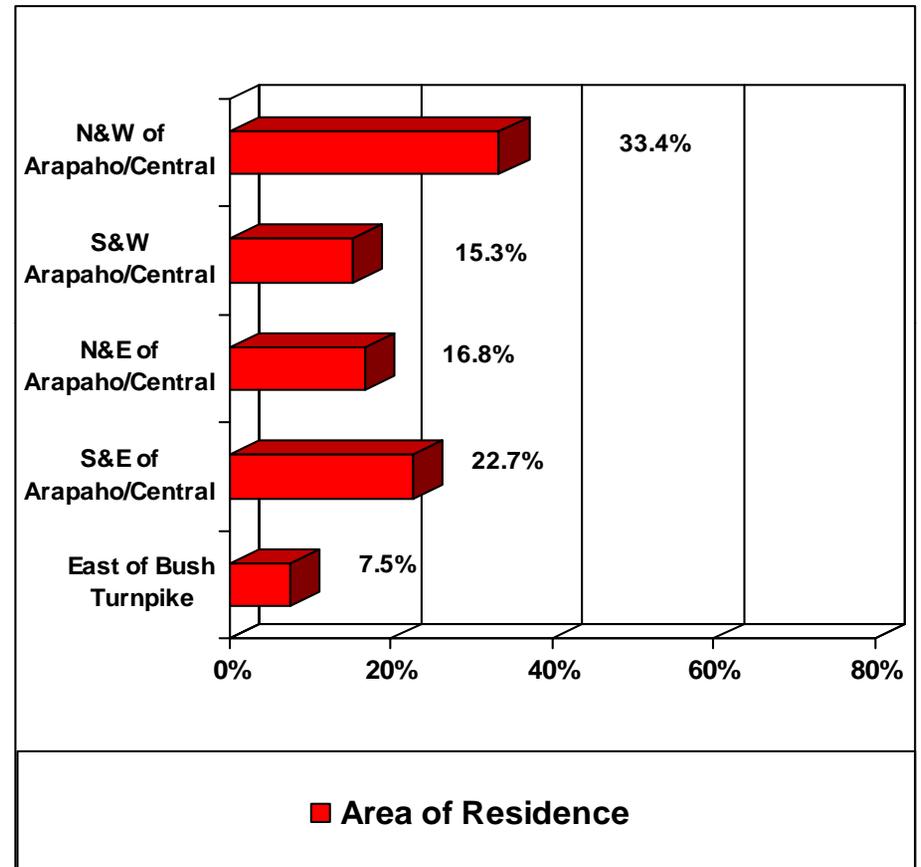
- The typical respondent has lived in Richardson 18 years, has a household size of 2.8 persons and is 53.3 years of age.
- 40% of households have children residing within their household.
- Age groups of children represented in the surveyed households:
 - 0 to 5 years old 18.5%
 - 6 to 10 years old 17.9
 - 11 to 13 years old 10.8
 - 14 to 18 years old 10.5
 - No children in house 59.7
- Head of household age of respondents:
 - Under 35 10.7%
 - 35 to 44 22.7
 - 45 to 54 21.1
 - 55 to 64 18.9
 - 65+ 23.5
- 89% own their home and 4% rent.



Source: National Service Research, Mail and Online Survey of 665 Richardson Residents, October 2009

Demographics

- The geographic distribution of the respondents is representative of the city's population.





National Service Research

(Background/Contact Information)

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National Service Research (NSR), founded in 1989, is a full-service market research consulting firm and conducts market studies for the public and private sector. NSR conducts various types of consumer and business research including focus groups and surveys nationwide. NSR's owner and founder, Andrea Thomas, has twenty-two years of professional market research experience.



City of Richardson, Texas

Aquatic Master Plan

November 2009

NEED LOGO

MHS Planning & Design, LLC

Contact: Mark Spencer
212 W. 9th St.
Tyler, TX 75701



COUNSILMAN • HUNSAKER
The Ultimate Aquatic Advantage

Counselman-Hunsaker

Contact: Kevin Post
10733 Sunset Office Dr
Suite 400
St. Louis, MO 63127

Table of Contents

Executive Summary	5
Section 1: Introduction	9
Methodology	9
Project Scope	9
Existing Facilities	9
Comparison Cities	12
Section 2: Population Characteristics	15
Population	16
Mosaic Types	17
Income	20
Age Distribution	22
Section 3: Aquatic Trends	27
Section 4: Area Provider Analysis	39
Aquatic Providers 0-10 Miles	42
Aquatic Providers 10-15 Miles	50
Aquatic Providers 15-20 Miles	64
Aquatic Providers 20-25 Miles	69
Section 5: Development Concepts	85
APPENDIX A: REFERENCE	i

Executive Summary

In 2008, the City of Richardson, Texas, just 13 miles north of Dallas, was ranked the 18th best place to live in the United States by *Money* magazine. This ranked Richardson the 4th best place to live in Texas. In 2009, *Business Week's* annual report on the "Best Places to Raise Kids" ranked Richardson 2nd in Texas. Richardson is one of the densest high-tech areas in the nation, with Telecom Corridor, where Nortel (among other companies) houses its U.S. headquarters. Richardson is also home to four DART rail stations and new luxury condominium, apartment, and town home developments.¹



During its 50 years, the Richardson Parks and Recreation Department has provided families greater quality of life through first class programs that have become a tradition and a source of pride within the community. This is evident by greater real estate values and first class economic development, proving that Richardson is not only a great host to business and industry, but a great place to call home.²

Aquatic recreation offers five existing swimming pools in the city, including Arapaho Pool, Canyon Creek Pool, Cottonwood Pool, Glenville Pool, and Terrace Pool. The purpose of this Aquatic Master Plan is to provide the viability for the design and construction of new aquatic centers in the City of Richardson.

Demographic analysis for the City of Richardson reveals that the population base is projected to increase from 100,500 to 106,300 by 2013. Income analysis for the city is 35% higher than the national average regarding resident per capita income and 52% higher regarding median household income. As a percentage of population, the 0-19 age group is right at the national average. Due to higher percentages of people in age groups 35 to 64, the median age for the city is higher than the national average (37.9 compared to 36.7).³

Aquatic centers have many opportunities to make revenue-producing pools through competitive, recreation, and fitness programming by utilizing a diverse variety of lessons, fitness classes, and special events to increase attendance and revenue. Both water exercise and water therapy programs have grown substantially over the years due to aquatic fitness being less strenuous than land fitness. The sustained popularity of teaching the community to swim has led to significant numbers of swim team and Masters swimmers nationwide. Swim meets and championships can bring in a large number of swimmers to the area, plus their families, coaches, and officials. Additionally, water polo tournaments, synchronized swimming, and diving meets are also possible. Marketing user groups will be imperative to the success of the facility.

Aquatic Tool Box

The consultants developed seven concepts for the City of Richardson to consider.

DEVELOPMENT CONCEPT COMPARISON	
<p>Op. of Proj.Cost \$688,000</p> 	<p>Option 1 Splash Pad (Pad) –Interactive water play element with no standing water.</p>
<p>Op. of Proj.Cost \$3,220,000</p> 	<p>Option 2 Small Neighborhood Family Aquatic Center (SNFAC) – Outdoor multi-purpose recreation pool.</p>
<p>Op. of Proj.Cost \$4,540,000</p> 	<p>Option 3 Neighborhood Family Aquatic Center (NFAC) –Outdoor multi-purpose recreation pool with short course competition pool.</p>
<p>Op. of Proj.Cost \$9,000,000</p> 	<p>Option 4 Medium Family Aquatic Center (MFAC) –Outdoor recreation pool and a separate short course competition pool.</p>
<p>Op. of Proj.Cost \$12,490,000</p> 	<p>Option 5 Large Family Aquatic Center (LFAC) – Outdoor recreation pool and a long course competition pool.</p>
<p>Op. of Proj.Cost \$13,960,000</p> 	<p>Option 6 Indoor Aquatic Center (Indoor) – Indoor competition and recreation pool.</p>
<p>Op. of Proj.Cost \$29,820,000</p> 	<p>Option 7 Indoor 50 Meter Competition Pool (Venue) – Indoor 50 meter pool, dive well with platform diving, and an indoor leisure pool.</p>

Section 1: Introduction

Methodology
Project Scope
Existing Facilities

Section 1: Introduction

The City of Richardson retained MHS Planning & Design LLC, and Counsilman-Hunsaker to provide aquatic facility options and master planning strategies that would help the city make an educated decision before moving forward with the construction and operation of new aquatic centers.

Methodology

The plan is based on extensive research through the following processes:

- Met with representatives of the City of Richardson.
- Toured the site and region.
- Investigated area aquatic providers to understand the amenities, programs, and fees of those facilities.
- Identified potential user groups through demographics of the market area.
- Reviewed national trends in recreation, fitness, therapy, and aquatics to determine amenities and programs.

Project Scope

The scope of the project is to:

- Recommend aquatic facilities that will meet current and future community needs for health and safety.
- Make projections regarding project costs.
- Determine a master plan.

Existing Facilities

1. Arapaho Pool
711 W. Arapaho Rd.
Richardson, TX

Richardson Pool Data 2009						
Pool	Patron Capacity	Days Open	Water Capacity	Income	Direct Expenses	% of Cost recovery
Arapaho	400	91	309,000	\$79,579	\$148,560	53%

2. Canyon Creek Pool
600 Aspenwood Dr.
Richardson, TX

Richardson Pool Data 2009						
Pool	Patron Capacity	Days Open	Water Capacity	Income	Direct Expenses	% of Cost recovery
Canyon Creek	180	76	159,000	\$44,179	\$123,800	36%

3. Cottonwood Pool
1321 W. Belt Line Rd.
Richardson, TX

Richardson Pool Data 2009						
Pool	Patron Capacity	Days Open	Water Capacity	Income	Direct Expenses	% of Cost recovery
Cottonwood	235	76	194,000	\$19,925	\$111,420	18%

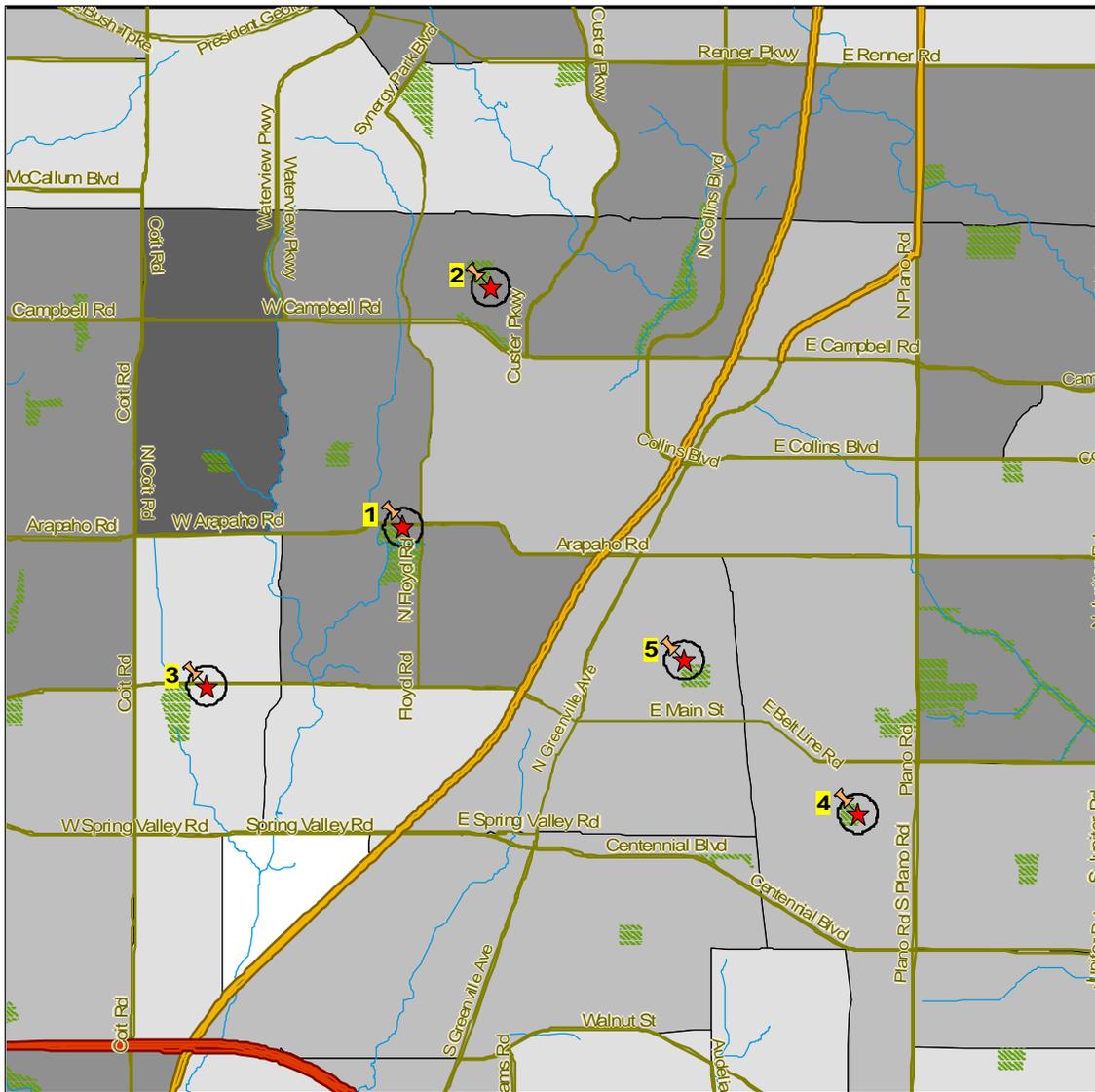
4. Glenville Pool
 500 S. Glenville Dr.
 Richardson, TX

Richardson Pool Data 2009						
Pool	Patron Capacity	Days Open	Water Capacity	Income	Direct Expenses	% of Cost recovery
Glenville	188	76	163,000	\$35,647	\$117,610	30%

5. Terrace Pool
 300 N. Lois Lane
 Richardson, Tx

Richardson Pool Data 2009						
Pool	Patron Capacity	Days Open	Water Capacity	Income	Direct Expenses	% of Cost recovery
Terrace	120	76	57,000	\$27,983	\$123,800	23%

Map of City of Richardson, TX, Existing Aquatic Facilities



Source: Demographics Now

Comparison Cities

In 1990, the National Recreation and Parks Association published a recommendation for the number of public pools needed in any U.S. community based on population alone: one pool for every 20,000 residents.⁴ Although this never became the national standard due to variables such as other providers, income, different types of pools, and desired programming by various age groups, the following chart shows the number of public pools from various cities with populations between 100,000 and 150,000. From this research it was found that, on average, these cities have approximately four municipal pools serving 56,612 residents per pool. In analyzing a comparison to these cities, the City of Richardson has five municipal pools serving 20,100 residents per pool.

POOLS BY POPULATION			
City	Population	Municipal Pools	Residents per Pool
Eugene, OR	145,981	3	48,660
Hampton, VA	145,646	7	20,807
Torrance, CA	145,516	1	145,516
Evansville, IN	121,582	9	13,509
McKinney, TX	115,600	3	38,533
Independence, MO	109,159	1	109,159
Richardson, TX	100,500	5	20,100
AVERAGE	126,283	4	56,612

Source: Counsilman-Hunsaker

Section 2: Population Characteristics

Population

Income

Age Distribution

Population

The following table presents a summary of market area population with distance rings surrounding the center of the city. The 2000 Census was used to estimate the population for 2008 and projections for 2013. The population base for the city is projected to increase from 100,500 to 106,300 by 2013. Distance rings analyzed according to radii surrounding 25-miles of the city are projected to increase in population as well.³

MARKET AREA POPULATION BY DISTANCE										
Radius	Population						Average Annual Change			
	2000		2008		2013		2000-2008		2008-2013	
	Number (000's)	Percent of Total	Number (000's)	Percent of Total	Number (000's)	Percent of Total	Number (000's)	Percent	Number (000's)	Percent
0 to 3 Miles	114.4	3.7%	119.6	3.2%	122.7	3.0%	0.6	0.6%	0.6	0.5%
3 to 5 Miles	225.7	7.3%	236.0	6.4%	248.6	6.1%	1.3	0.6%	2.5	1.0%
5 to 10 Miles	829.6	26.8%	922.5	24.9%	994.3	24.4%	11.6	1.3%	14.4	1.5%
Subtotal	1,169.7	37.8%	1,278.1	34.5%	1,365.7	33.5%	13.6	1.1%	17.5	1.3%
10 to 15 Miles	692.5	22.4%	895.2	24.2%	1,010.7	24.8%	25.3	3.3%	23.1	2.5%
15 to 25 Miles	1,229.4	39.8%	1,528.6	41.3%	1,699.2	41.7%	37.4	2.8%	34.1	2.1%
Subtotal	1,921.9	62.2%	2,423.8	65.5%	2,709.8	66.5%	62.7	2.9%	57.2	2.3%
Total (0-25 Miles)	3,091.6	100.0%	3,702.0	100.0%	4,075.5	100.0%	76.3	2.3%	74.7	1.9%
Richardson, TX	91.7		100.5		106.3		1.1	1.2%	1.2	1.1%

Source: Demographics Now

Mosaic Types

Of the population in Richardson, 21.5% participate in swimming. This is well above the national average of 18.5%.³ The adjacent table and following definitions describe lifestyle classifications of Richardson residents as compared to the U.S. national averages.³

MOSAIC TYPES		
	Richardson, TX	U.S.
Affluent Suburbia	33%	13%
Upscale America	18%	11%
Small Town Contentment	10%	11%
Metro Fringe	9%	11%
American Diversity	7%	10%
Rural Villages & Farms	1%	10%
Aspiring Contemporaries	13%	9%
Struggling Societies	4%	7%
Urban Essence	5%	6%
Blue-Collar Backbone	1%	6%
Remote America	0%	6%
Varying Lifestyles	0%	1%
	100%	100%

Source: Demographics Now

Affluent Suburbia (33%) represents the wealthiest households in the nation, outranking all other Mosaic Types in terms of household income, home value, and educational achievement. Concentrated in exclusive suburban neighborhoods, these households are predominantly college educated, typically working in managerial and executive positions with six-figure-plus incomes. They enjoy fashionable homes and belong to country clubs, travel abroad, and go sailing, golfing, and skiing. Many are culture buffs who attend the theater, art shows, dance performances, and concerts.

Upscale America (18%) is comprised of college educated executives and white-collar professionals living in metropolitan sprawl, earning upscale incomes. They enjoy large homes and very active lifestyles. Recreation pursuits include jogging, biking, and swimming. They are active in community affairs, business clubs, environmental groups, and art associations.

Small-Town Contentment (10%) represents middle-aged and upper middle-class families living in satellite towns and cities. With a split between college degrees and moderate education, they are employed in well-paying white-collar, blue-collar, administrative, and service professions. While living right outside major metros, these households live in nice homes and enjoy tennis, swimming, hiking, and camping. They commute to nearby cities to enjoy sporting events, nightclubs, and upscale malls.

Metro Fringe (9%) is a collection of racially mixed, lower-middle-class located primarily in satellite cities. Many of the group's households consist of young singles and couples who work at blue-collar and service industry jobs. They tend to live in older single-family homes, semidetached houses, and low-rise apartments. Overall, this group is relatively active in soccer and softball, rollerblading and skateboarding, go-carting and video gaming.

American Diversity (7%) is a contrasting ethnic mix of middle-aged couples, singles, and retirees. With a few exceptions, this Mosaic Type consists of households with average educations and middle-class incomes from blue-collar and service industry jobs. Many are older Americans who have already exited the workplace. They tend to have unassuming lifestyles, read books and newspapers, go to movies and plays, and socialize through fraternal orders and veterans clubs.

Rural Villages and Farms (1%) represent America's agricultural and mining communities, filled with middle-class families and couples of varied ages. Most of these households are married and high school educated. They maintain tranquil lifestyles in unpretentious houses and comfortable mobile homes. They share a fondness for fishing, hunting, camping, motor sports, and attending country-western concerts. Many residents are do-it-yourselfers and enjoy woodworking and needlework.

Aspiring Contemporaries (13%) are filled with upward strivers. These households tend to be young Generation Xers between 18 and 34 years old, ethnically diverse (about 40 percent are minorities) and unattached (about two-thirds are single or divorced). Yet despite traditional barriers to affluence,

members of these metropolitan types are already solidly middle class. Many live in relatively new homes or apartments valued at more than the national average—a reliable sign of upward mobility. They are culture buffs who like to see plays, movies, comics, and live bands.

Struggling Societies (4%) symbolize the disadvantaged and uneducated. With incomes half the national average and nearly a third never completing high school, they are consigned to low-level jobs in manufacturing, health care, and food services. Many of these residents are young minorities, students and single parents trying to raise families on low incomes and tight budgets. Without much discretionary income, their activities are limited and recreation pursuits include playing basketball; volleyball; skateboarding; and listening to Spanish, Mexican, and urban contemporary music.

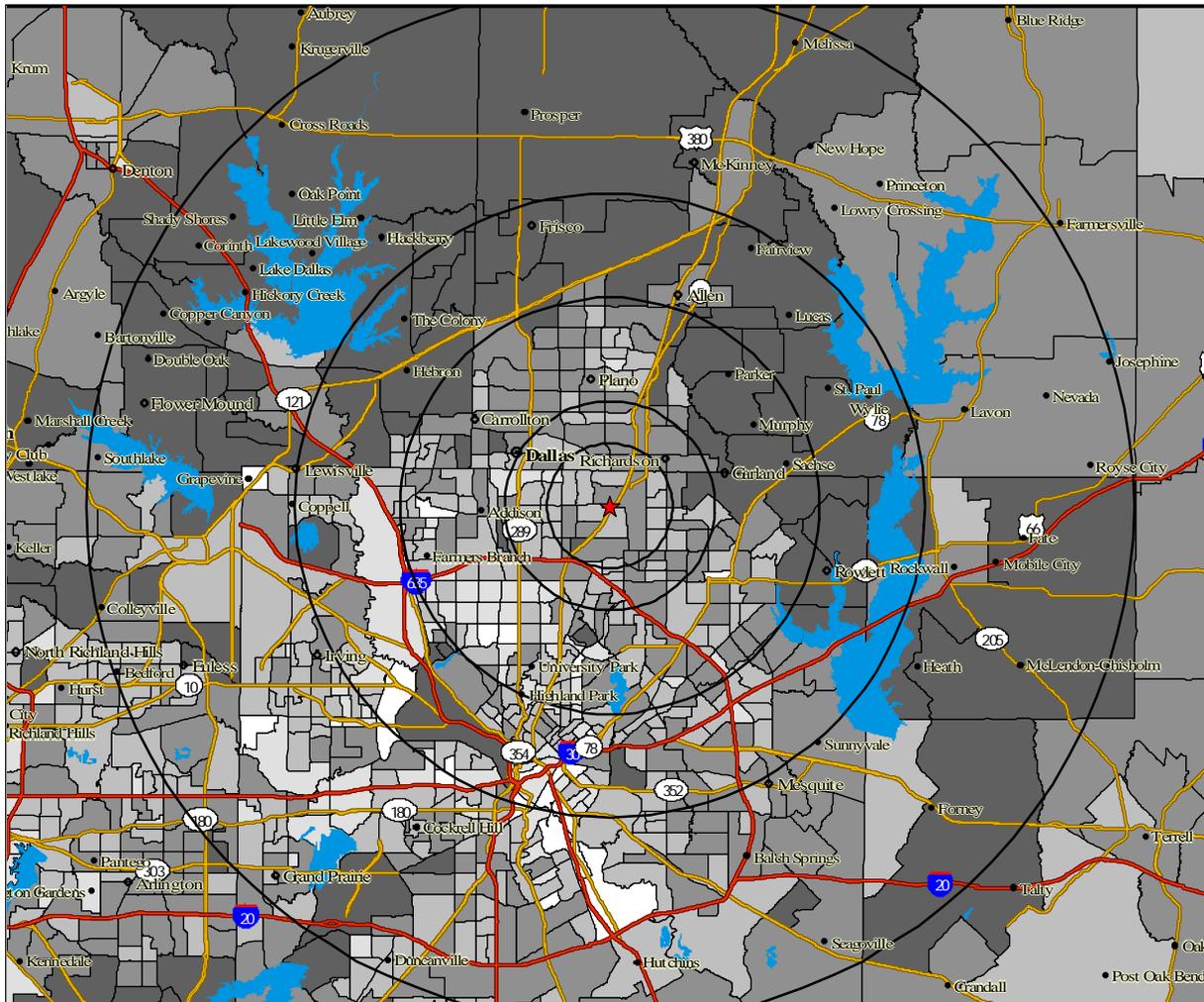
Urban Essence (5%) makes up the nation's least affluent group, a collection of relatively young minorities living in older apartments. More than half the households consist of African-Americans and Hispanics. Many are single or single parents working at entry-level jobs in service industries. With their low education levels and household incomes, residents lead unpretentious lifestyles. Many with above-average households spend their leisure time playing baseball, basketball, football, and listening to jazz and urban contemporary music.

Blue-Collar Backbone (1%) includes above-average proportions of both old and young residents, families and singles, homeowners and apartment renters. Most residents live in older outlying towns and cities, and work at blue-collar jobs in manufacturing, construction, and retail trades. Their lifestyle reflects a working-class sensibility. With relatively few entertainment options, due to their remote location or lack of discretionary income, their most popular recreation activities include team sports, fishing, and veterans clubs.

Remote America (0%) reflects heartland lifestyles, a mix of farming and small industrial communities mostly located in the nation's midsection. Working-class couples and families in this group tend to be employed in agriculture and blue-collar jobs that pay modest wages. The median home value is about half the national average, and a significant number of residents live in mobile homes. No group has a lower population density, and few have higher rates for outdoor-oriented lifestyles. Households spend their leisure time fishing, hunting, hiking, and horseback riding.

Varying Lifestyles (0%) live in group quarters such as the military and university dorm life. Those who have the ability are more likely than average Americans to visit museums, zoos, and state fairs. They like to stay active in aerobic exercise, hiking, bowling, tennis, baseball, and volleyball. They are frequent travelers who vacation abroad as well as within the United States.

Map of Population: Richardson (2009)



Source: Demographics Now

Key:

	Census Tracts
	Above 9700
	5400 to 9700
	3000 to 5400
	1650 to 3000
	Below 1650
	No Data

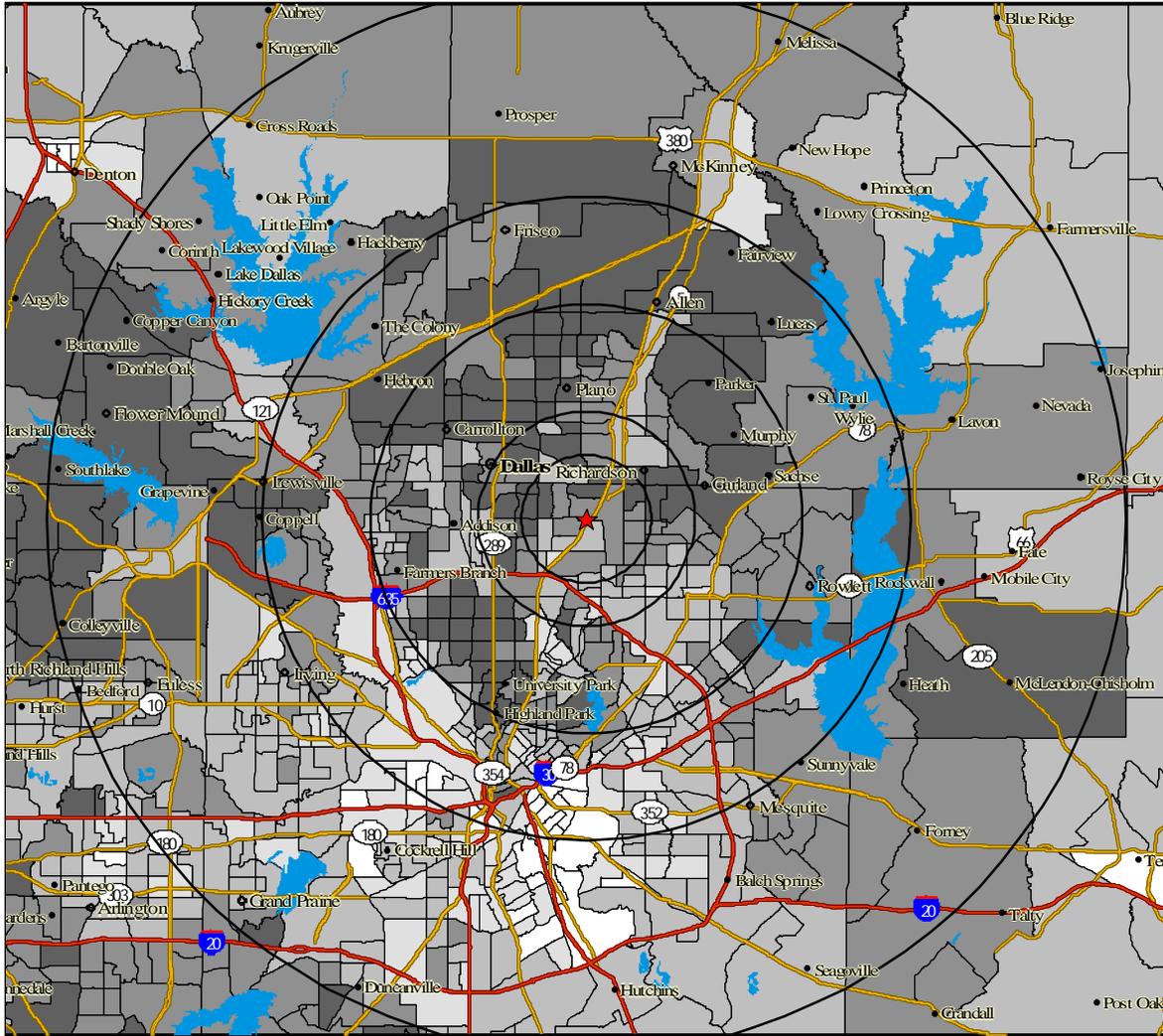
Income

To a certain degree, the likelihood of residents to use city recreation facilities depends on their ability to pay admission and program fees. In the following table, the U.S. national average is set at 1.00. Index refers to the percentage higher or lower than the national average. Income analysis for the City of Richardson is 35% higher than the national average regarding resident per capita income and 52% higher regarding median household income. Median household income per distance rings surrounding 25-miles of the city are above the national average.³

MARKET AREA INCOME				
Radius	Per Capita Incomes		Median Household Incomes	
	Dollars	Index	Dollars	Index
0 to 3 Miles	\$30,769	1.16	\$67,169	1.28
3 to 5 Miles	\$34,306	1.30	\$63,812	1.21
5 to 10 Miles	\$38,370	1.45	\$71,533	1.36
10 to 15 Miles	\$34,796	1.31	\$69,559	1.32
15 to 25 Miles	\$30,379	1.15	\$64,962	1.24
Richardson, TX	\$35,664	1.35	\$79,836	1.52
Total U.S.	\$26,464	1.00	\$52,599	1.00

Source: Demographics Now

Map of Median Household Income: Richardson (2009)



Source: Demographics Now

Key:

	Census Tracts
	Above 97000
	62000 to 97000
	40000 to 62000
	25500 to 40000
	Below 25500
	No Data

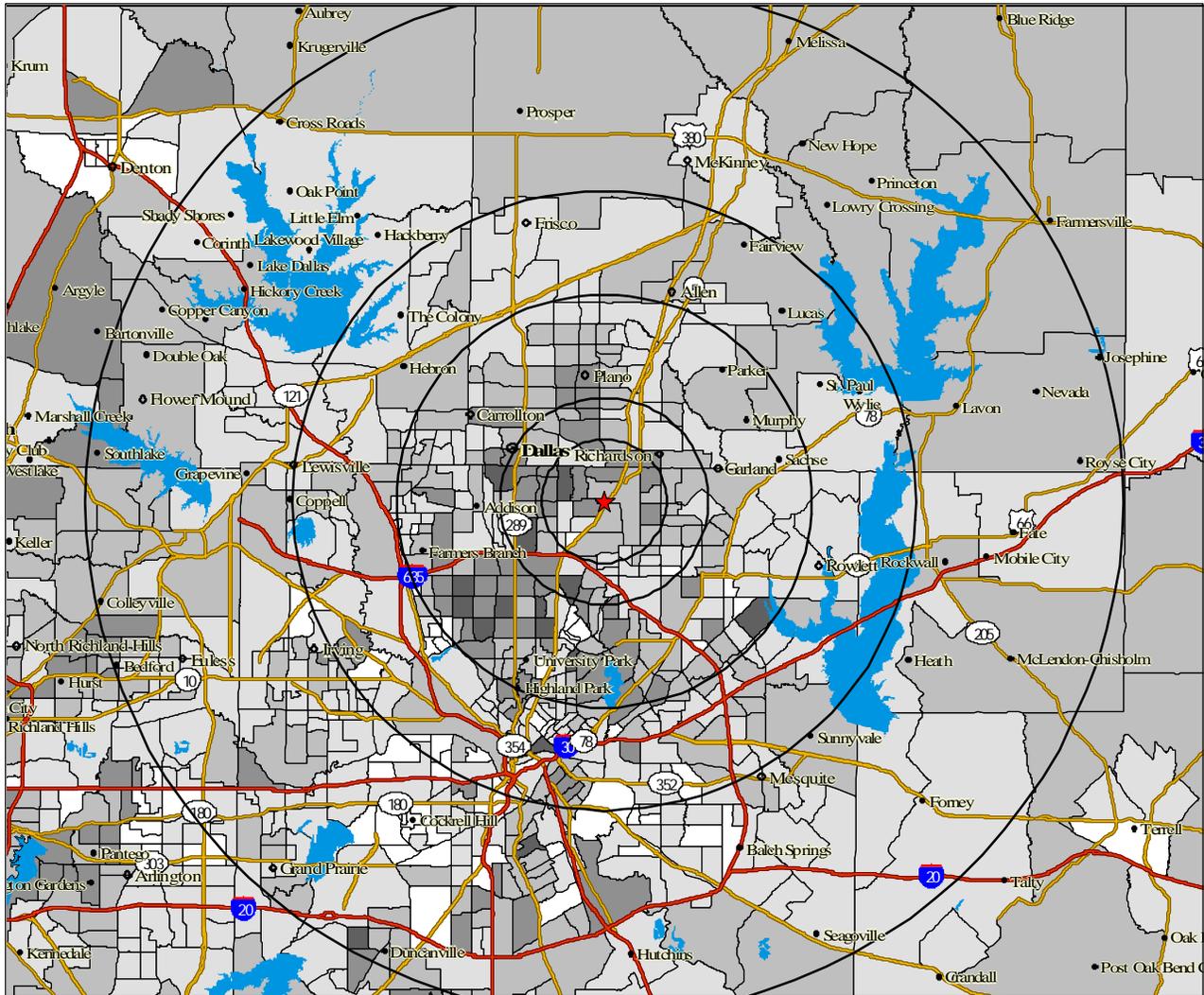
Age Distribution

Age distribution is another population characteristic used to determine the type and level of use of any type of program. While younger age groups are more likely to engage in competitive and recreational activities, middle-aged and older patrons enjoy wellness and fitness programming. The following table provides the number of residents and the percentage of total population for each age group compared to the U.S. column, which identifies the national average. The 0-19 age group, as a percentage of population, is right at the national average in the City of Richardson (27.1%). The median age for the city is higher than the national average (37.9 compared to 36.7) due to higher percentages of people in age groups 35 to 64.³

MARKET AREA AGE DISTRIBUTION													
Age Groups	0-3 Miles		3-5 Miles		5-10 Miles		10-15 Miles		15-25 Miles		Richardson, TX		Total U.S.
	#	%	#	%	#	%	#	%	#	%	#	%	
Under 5	8,677	7.3%	17,107	7.2%	71,496	7.7%	78,303	8.7%	132,719	8.6%	6,877	6.8%	6.8%
5 to 9	8,421	7.0%	15,690	6.6%	67,219	7.3%	73,387	8.2%	128,702	8.3%	6,909	6.9%	6.6%
10 to 14	8,374	7.0%	14,043	5.9%	62,205	6.7%	65,465	7.3%	120,301	7.8%	6,996	7.0%	6.7%
15 to 19	7,863	6.6%	14,363	6.1%	56,935	6.2%	60,606	6.8%	111,631	7.2%	6,412	6.4%	7.0%
Subtotal	33,335	27.9%	61,203	25.9%	257,855	28.0%	277,761	31.0%	493,353	31.8%	27,194	27.1%	27.1%
20 to 24	7,725	6.5%	17,256	7.3%	57,310	6.2%	57,775	6.5%	100,166	6.5%	5,904	5.9%	7.0%
25 to 34	15,962	13.3%	37,360	15.8%	143,261	15.5%	153,330	17.1%	223,467	14.4%	12,718	12.7%	13.3%
35 to 44	18,251	15.3%	36,523	15.5%	155,865	16.9%	154,078	17.2%	240,792	15.5%	16,095	16.0%	14.0%
45 to 54	17,635	14.7%	36,069	15.3%	137,192	14.9%	118,754	13.3%	212,331	13.7%	15,735	15.7%	14.5%
55 to 64	13,854	11.6%	26,195	11.1%	87,973	9.5%	72,552	8.1%	142,112	9.2%	12,011	11.9%	11.2%
65 to 74	7,844	6.6%	12,865	5.5%	46,049	5.0%	36,023	4.0%	71,045	4.6%	6,646	6.6%	6.7%
75 to 84	3,636	3.0%	5,973	2.5%	26,160	2.8%	17,327	1.9%	55,321	3.6%	3,052	3.0%	4.3%
85 and over	1,329	1.1%	2,608	1.1%	10,890	1.2%	7,647	0.9%	12,650	0.8%	1,157	1.2%	1.9%
TOTAL:	119,571	100.0%	236,052	100.0%	922,555	100.0%	895,247	100.0%	1,551,237	100.0%	100,512	100.0%	100%
Median Age	36.6		35.9		35.4		34.1		33.6		37.9		36.7

Source: DemographicsNow

Map of Median Age: Richardson (2009)



Section 3: Aquatic Trends

Lessons & Fitness User Groups

Aquatic Therapy User Groups

Recreation User Groups

Competitive User Groups

Section 3: Aquatic Trends

When developing tomorrow's vision for aquatic programming, it is important to understand traditional uses and trends in aquatic programs. Trends evolve in the aquatic industry as swimming expectations evolve. Multi-generational facilities provide bodies of water for lessons and fitness, wellness needs, competitive needs, and family recreation needs with separate spaces for different age groups. The old theory of building a rectangular pool and expecting everyone to jump in is unrealistic for tiny tots, families, accessibility populations, and seniors. Often, multiple bodies of water are necessary to accommodate greater representation from the entire community.

While national surveys continually rank swimming as a favorite recreational sport, today's aquatic centers incorporate recreation swimming and wellness pools to augment revenue of competitive swimming, thereby creating multi-generational facilities through shared expenses. Contemporary aquatic centers are fully ADA accessible⁵ where everyone can benefit from aquatic activities. As more athletes cross train with water fitness components and more doctors recommend water rehabilitation for injured, obese, diabetic, and aging patients, multi-generational aquatic centers are inclusive of the entire community.

Site Selection

Generally, the market area for a municipal aquatic center is a 25-mile radius. Market penetration for attendance tends to drop off for every five miles of distance surrounding the facility. Guests are more likely to patronize businesses close to home, frequent a facility that is easy to find, and typically stay longer according to the number of attractions, while the length of stay correlates with per capita spending. Depending on the final site chosen, existing topography, trees, utilities, and proximity to roadways will dramatically impact the use of the site and in some cases will limit the amount of future development. Site priority should be given to sites that offer:

- Physical accessibility with an emphasis on proximity to public transportation, crosswalks, and major streets.
- Visibility such that a civic presence can be achieved.
- Land use compatibility with adjacent property and good relationships with other aquatic providers.
- Adequate size to support the intended program.
- Few development limitations.
- City ownership or site control that can be achieved easily and at a low cost
- Room for expansion.

Schedules and Fees

Ultimately, aquatic centers depend on repeat business to survive. An affordable experience, both in terms of admission and spending, depends on what the market will bear. The top rate is the general admission rate, which is usually charged to adults over 18. In addition to the general admission rate, there are a number of discounted rates, including youth and senior general admission rates, group rates, promotional rates, and season passes for individuals and families. In order to analyze revenue, the following chart is a typical industry evaluation of daily admissions, season pass memberships, and concession percentages.

General Admission	70%
Season Passes	25%
Food & Beverage	5%
Total	100%

Lessons and Fitness User Groups

The following describes national trends for four aquatic user groups: lessons and fitness, aquatic therapy, recreation swimmers, and competitive swimmers. The descriptions make evident the very different requirements for each of these aquatic user groups when planning and designing an aquatic facility.

Swim Lessons

According to the Centers for Disease Control, more than one in four fatal drowning victims are 14 years and younger. For every child who dies from drowning, another four receive emergency department care for nonfatal submersion injuries. Nonfatal submersions can cause brain damage that may result in long-term disabilities, including memory problems, learning disabilities, and permanent loss of basic functioning.⁶

Knowing how to avoid drowning is essential for children and adults, whether living in areas with natural bodies of water or simply being invited to pool parties. With more than one available pool in an aquatic center, lessons can be maximized where a large number of residents can be taught to swim. Ideally, water depth for instruction should accommodate young participants to stand comfortably in the water. Recreation pools easily provide this preference. Deeper competition pools offer moveable floors or other means of altering water depth for instructional purposes.



A well-run water lesson program is essential in introducing young swimmers to safe aquatic skills that can be used throughout their lives. By offering the community a comfortable, controlled aquatic environment, swimming and diving lessons can become an enjoyable learning experience. There are many different types of water safety lessons that can teach children not only how to swim and dive but how to survive in adverse water conditions. From small water craft instruction to drown-proofing, water safety is an integral part of any community. Many will go on to formal competitive aquatic programs in school or age-group swimming programs. Some will excel to become state champions. Benefits such as scholarship offers may occur when a swimmer or diver selects a college, which could lead to national level competition.

Drown-Proofing

The U.S. Consumer Product Safety Commission is aware of 74 cases of body entrapments, including 13 confirmed deaths between January 1990 and August 2004. The deaths were the result of drowning after the body or limb was held against the drain by the suction of the circulation pump. The incidents occurred in both residential and public settings.⁷

Subsequently, a new federal pool and spa safety law was signed by former President George W. Bush on December 19, 2007. The Virginia Graeme Baker Pool and Spa Safety Act requires all public pools and spas to have safety drain covers, and in certain circumstances, an anti-entrapment system.⁸ The goal of the law is to improve the safety of all pools and spas by increasing the use of layers of protection and promoting uninterrupted supervision to prevent child entrapments and drownings.

With many different programs to teach proper drown-proofing, some classes mimic the natural environment through instructor creativity (i.e., creating wave action with hands and arms to mimic river tides), while others simply require small children to memorize what they would do in a situation where



drowning is likely, and then enact memorized skills with an instructor present. Knowing how to avoid drowning is essential for children and adults, and even more so when living in areas where natural water bodies are prevalent.

Lifeguarding and CPR

Water rescue skills and CPR are typically taught to all lifeguards. However, teaching water rescue and CPR skills are integral to the community, as families are the true lifeguards of one another, whether at the beach or a backyard pool. Often, such courses are sponsored by the Red Cross, Ellis and Associates, and other providers of safety training.



Water Craft Instruction

Water crafts may capsize or experience mechanical difficulties. Drowning can occur when non-swimmers are aboard a craft that experiences difficulties of a mechanical or climatological nature. Though most aquatic centers, because of size constraints, cannot offer small water craft instruction, 50-meter pools can provide an excellent means to teach water safety skills in the event of an emergency.



School District Lesson Users

School districts are often valuable contributors to help efficiently program aquatic facilities. Potential programming might embrace swim lessons for elementary students, lifeguarding classes, physical education classes, therapy for high school athletes, and other joint partnership agreements to aid in directing area children to learn to swim. Aquatic sports (diving, water polo, synchronized swimming, underwater hockey, etc.) can contribute to the overall use of the facility as well as fitness use by faculty, special education therapy, and recreation. In addition, an aquatic facility may provide aquatic opportunities to pre-school children cared for by private daycare providers.



Aquatic Fitness

The more often the pool can be utilized for group activities for participants and spectators, the more likely the aquatic facility will be “alive” day in and day out. The types of activities that tend to draw a crowd are participatory, measurable, exciting, and often challenging – but not always so challenging that only the elite can participate. Activities can be tailored to different ages, sizes, and/or skill levels.



The industry has responded to the continued popularity of aquatic fitness by creating a wide range of activities with related devices and equipment for a greater diversity of water-based aqua exercise options. Aerobic dancing, walking, and running in shallow and deep-water environments, including current channels for walking against the current, are just a few of the choices available to people wishing to add less stressful elements of a cross-training regimen or even to use aqua aerobics for their entire fitness program. Additionally, businesses might sponsor or subsidize aquatic fitness as part of their employee wellness training discipline.

Aquatic fitness also remains one of the most popular forms of exercise among senior adults. Data taken from the National Center for Health Statistics shows lifetime expectancy is up 30 years since 1900.⁹ The older adult market spans four generations from the Progressive Era 1900-1928, Depression Era 1929-1939, WWII Era 1940-1945, and Baby Boomers 1946-1958. Gray power can be a large, affluent market willing to participate in water fitness, wellness programming, and other recreation opportunities. This diverse age group from 55 to 90+ includes sub-groups of which some are still working, some have children in college, and some are focusing on retirement, grandkids, and health. Consequently, seniors can be willing, enthusiastic participants if certain requirements are met. They typically feel uncomfortable in an environment with teens and generally respond better to strictly defined programming of well-structured activities such as water aerobics, arthritis water fitness, water walking, physical therapy, adult swim lessons, ‘Save a Life’ workshops, lap swimming, and Masters Swimming.

LIFETIME EXPECTANCY	
Year	Both Sexes
1900	47.3
1950	68.2
1960	69.7
1970	70.8
1980	73.7
1990	75.4
2000	77.0
2005	77.8

Source: National Ctr. For Health Statistics

Water Fitness Trends

Aquatic programming accommodates beginner lessons that graduate to higher levels of intensity and skill. The following provides a snapshot of popular aquatic fitness programs.

Walking and Jogging in Shallow and Deep Water: The current channel, attached to the leisure pool, provides water traveling at approximately three miles per hour, thus creating an opportunity for walking against the current as a non-programmed or programmed fitness activity. According to waterart.org, “30 minutes of walking and jogging in shallow and deep water is equal to 80 minutes of jogging on land.”

Water Aerobics: Remaining one of the fastest growing segments of the adult fitness industry, water aerobic workouts usually combine a variety of land aerobic techniques, including walking or running backwards and forwards, jumping jacks, mimicking cross-country skiing, and various arm movements. The workout may also incorporate equipment such as flotation devices and foam water weights.

Deep Water Aerobics: This type of water aerobics offers a muscular endurance workout in deep water that consists of simulated running in the deep end of the pool aided by a flotation device (vest or belt) where the participant is held in one location by a tether cord, essentially running in place.

Finning: This active swimming program requires training fins or flippers and utilizes fitness lap lanes of a pool. The kicking and pulling enhances conditioning and toning.

Liquid Gym: This aqua training workout can be as intense as desired with a personal trainer for the purpose of improved athletic performance.

Navy Seals: This aquatic class consists of Finning, water jogging, deep water aerobics, and scuba instruction.

Water Yoga: Warm water, as in a therapy pool, enhances asanas (stretching poses) to relax muscles and increase range of motion and balance. Pan flute music and dim lights deepen the experience. (yogaafloat.com)

Boot Camp: This amphibious program incorporates land and water fitness in a fast paced military-style interval training course with running in the pool, calisthenics, jumping jacks, pushups, and football-style drills.

Scuba and Snorkeling: These lessons are growing in popularity (possibly due to the increase of environmental professions) and typically start in swimming pools.

Scuba Rangers: Scuba and snorkeling skills are taught to kids 8 to 12 while using underwater flashlights, navigation compasses, and underwater photography.

Underwater Hockey: According to USOA Underwater Hockey, “The pool should be 25-meters by 15-meters and two-meters deep all the way across, but anything will do, even slopes (just change ends at half-time). Lead weights and three meters of rope can be used as goals, though the sound of the puck thunking into the back of a metal goal is very satisfying and should be experienced.”

Water Polo: Dimensions of a water polo pool are not fixed and can vary between 20 by 10 and 30 by 20 meters. Minimum water depth must be at least six feet. The goals are three meters wide and 90 centimeters high.

Kayak Polo: This sport involves water polo being played from kayaks. According to Carolina Kayak Polo, “It is difficult to describe the passion and excitement that is created when a kayak water polo game is in progress. The participants—speeding the length of the pool weaving through the opponent’s lines of defense and spinning in their kayaks to receive a pass—create a fast and thrilling event.”

Water Basketball: Ideated in 1986 by Italian teacher, Francesco Rizzuto, this sport is a mixture of basketball and water polo. When designing a pool, full court water basketball is more challenging when tile lines are encrypted into the floor of the pool.

Water Volleyball: Portable and floatable aqua water volleyball sets come complete with two net positions, two anchor bags, and a staked floating perimeter boundary.

Triathlons: These athletic competitions in which the contestants compete in three different events to find the best all-around athlete, typically consist of swimming, cycling, and running.

Kayak and Canoe Clubs: Due to the popularity of Extreme Sports, these clubs are growing in popularity.

Swim lessons, lap swimming, water jogging, deep-water aerobics, life saving instruction, diving lessons, survival swimming, synchronized swimming, water polo, underwater hockey, and scuba instruction can take place in a competitive/lesson/training pool, which frees up the recreation pool for swimmers who want to use the play features. Fitness classes are usually offered in the morning, at lunchtime, and in the early evening. Instructor information and/or training can be acquired through organizations such as the Arthritis Foundation; Red Cross; Aquatic Exercise Association; American Alliance for Health, Physical Education, Recreation and Dance (AAHPERD); and United States Water Fitness.

Aquatic Therapy User Groups

Aquatic therapy is rehabilitation performed in warm water and involves physical activity of exercise and motion in the presence of an aquatic therapist, also called an aquatic therapy provider. Warm water may increase the dynamics of blood pressure and blood and lymph circulation as well as decreasing swelling in skin and other tissues. Participation in an aquatic therapy program offers improvement in:

- Overall health and fitness
- Stretching capacity
- Range of motion
- Movement capabilities
- Coordination
- Physical stamina and endurance
- Swimming skills, safety, and abilities



Though many people who use aquatic therapy are enthusiasts of meditation or massage, some are looking for rehabilitating or improving a certain level of health. The Arthritis Foundation certifies instructors to teach arthritis aquatics. Many participants in these programs report reduced arthritis symptoms, including increased mobility and decreased pain and stiffness.¹⁰ New studies by the Aquatic Exercise Association

suggest that the management of diabetes can be facilitated by water exercise.¹¹ When moderate exercise is recommended for obese patients, the low-gravity qualities of aquatic therapy can be very appealing to this user group.

Water Wellness Seekers

Over the past several years, water exercise programs have multiplied in health clubs, pain clinics, and hospitals. Users include:

Injured Athletes: Athletic trainers and sports medicine physicians are prescribing aquatic therapy as a rehabilitative/preventive fitness program.

Post-Operative Patients and the Disabled: Includes patients with physical ramifications such as spinal dysfunctions, post-operative muscle toning, injuries, and arthritis.

Arthritis Sufferers: The Arthritis Foundation certifies instructors to teach arthritis exercises such as Rusty Hinges and Joint Effort.

Diabetics: Though still in the theoretical stages, studies suggest that water exercise and therapy, when applied to diabetics as a regular program, can reduce diabetes symptoms and assist insulin level management.

Aging Baby Boomers: Some 70 million strong, “boomers” invented the fitness movement and show no sign of abandoning it as they age, especially in warm water pools.

Obese Patients: More doctors are prescribing water wellness for overweight issues.

Pregnant Women: Effects of the low resistance of water exercise is soothing to this user group.

Meditation Enthusiasts: Fans of mind and body movements enjoy immersing in warm water pools to complete the tranquil state of meditation.

Key Components of Aquatic Therapy Centers

Aquatic therapy centers are growing in necessity for rejuvenation and social wellness for rehabilitation needs and developmental disorders. Colorful environments and interactive water is a stimulating, effective, and cathartic treatment, while specific design elements are ultimately inspired by the rehabilitative needs of patients. Key components include:

- Warm pool water capability with fast pool turnovers.
- High-quality water chemical treatment systems, including dual sanitization methods and an appropriately designed HVAC/DH system.
- Easy access from the parking lot to the locker rooms, pool deck, and into the pool.
- Ample space in locker rooms and wider pool deck for wheelchairs, walkers, dry and wet equipment, and dry-side therapy.
- In-water amenities such as perimeter railings, aerobic steppers, treadmills, underwater benches, and ramps.
- Flexible pool depths for multiple programmatic needs.
- Aesthetically pleasing and light-filled private spaces.

Recreation User Groups

Successful aquatic centers combine creative water play areas for various age groups in a safe, friendly atmosphere. While aquatic recreation has become much more age-defined, attractions have age limitations and appropriateness due to elements of thrill and capabilities. Tots enjoy shallow pools with gentle water features and play areas tucked securely out of the way of the more active areas. Once children grow out of the tot stage, they enjoy romping in



zero-depth recreation pools, making their adventurous way across lily pad walks, and climbing on participatory play features with “just-their-size” waterslides. Older children speed down flume and drop slides and enjoy larger water play structures. Teens enjoy gathering spots like action islands with access to deep water pools and more adventurous waterslides. Lazy rivers and current channels cater to most demographics while spas and lap lanes are geared towards adults.

Age Group	Recreational Aquatic Age-Group National Trends
Age 0-3	Tot Pool, Tot Slides, Gentle Spray Features
Age 4-7	Water Sprayground, Zero-Depth Pool, Participatory Play Features, Sand Play
Age 8-11	Water Walks, Large Play Structures, Full-Size Waterslides, Open Water
Age 12-16	Water Walks, Large Waterslides, Open Water, Lazy River, Gathering Places, Sand Volleyball, Mat Racer, Diving Boards
Age 17-22	Action Island, Intense Waterslides, Flow Rider, Mat Racer, Climbing Wall, Open Water, Sand Volleyball, Drop Slides, Diving Boards
Age 23-45	Zero-Depth Pool (to be w/children), Open Water, Spa, Sun Deck, Lap Lanes, Lazy River, Waterslides, Diving Boards
Age 46+	Spa, Sun Deck, Lap Lanes, Lazy River, Family-Friendly Waterslides
	Source: Counsilman-Hunsaker

Competitive User Groups

High School Users

High School varsity swimming is typically well-supported in most communities across the U.S.; however, many schools lack the ideal facility for training and competition. Because quality pool time is usually scarce in most areas, renting pool time from other area facilities can be daunting due to various needs and agendas, thus pool availability can diminish as facilities experience capacity. High school competitive swimming requirements include:



- Course length of 25 yards with a minimum width of 45 feet for six 7 ft. wide lanes or 60 ft. for eight 7 ft. wide lanes.
- 125 spectator seats
- Equipment such as pace clocks, stretch cords, mats (for sit-ups, etc.), free weights, medicine balls, weight training equipment, kickboards, fins, paddles, pull buoys, course caps, and goggles.

Special Olympics

Creating positive and enduring changes in the lives of people with disabilities, their families, friends, coaches, volunteers, and all who cheer them on is the goal of Special Olympics. The organization continued to grow in 2008, serving approximately 3.2 million athletes in 180 countries. The movement’s top five sports include aquatics, athletics, football, basketball, bowling, and table tennis. Aquatic events usually take place in 25-meter pools with relay events that mirror those offered in other international swimming competitions. Events include:¹²

- 25-Meter Freestyle
- 25-Meter Backstroke
- 25-Meter Breaststroke
- 25-Meter Butterfly
- 15-Meter Walk

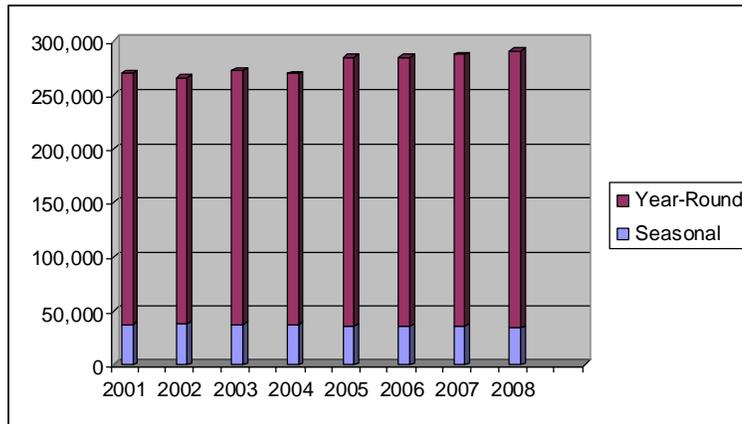


- 15/25-Meter Flootation Race
- 10/15-Meter Assisted Swim

USA Swimming

As the national aquatic governing body for competitive swimming in the United States, USA Swimming formulates rules, implements policies and procedures, conducts national championships, disseminates safety and sports medicine information, and selects athletes to represent the United States in international competitions. USA Swimming has 257,160 members nationwide and sanctions more than 7,000 events each year. USA Swimming has organized regional and national competitions for age group competitive swimming in the United States. The following chart illustrates the historic growth of this youth sport nationally.¹³

USA Swimming Membership Trend



Source: USA Swimming

The base for popularity is primarily a young age group as shown in the following chart.

Average Age of Membership 2008	
8 and under	33,808
9	24,172
10	27,574
11	29,137
12	28,391
13	25,872
14	23,154
15	18,554
16	16,062
17	13,650
18	9,467
19 and over	7,322
Total	257,163

Source: USA Swimming

USA Swimming's Southern Zone includes the North Texas Local Swimming Committee (LSC) with 27 teams that include 4,694 swimmers in the immediate area of Dallas, Plano, Frisco, and North Richland Hills, to name a few.¹³

All USA Swimming sponsored events must meet the minimum standards listed below. Some minimum facility requirements for USA Swimming National Championships are also listed.

- 25-meter pools (82 ft. and ¼ inch) must have a nominal tolerance of plus .03 meters (1 and 3/16 of an inch) to minus .00 meters on both end walls at all points from .03 meters (1 and 3/16 of an inch) above to .8 meters (2 ft. 7½ inches) below the water surface.
- 50-meter pools (164 ft. and ½ inch) must have a nominal tolerance of plus .03 meters (1 and 3/16 of an inch) to minus .00 meters on both end walls at all points from .03 meters above to .8 meters below the water surface.
- A minimum depth of 1.22 meters (4 ft.) is required for starting block competitions; 2 meters (6 ft. 7 inches) is preferred and is the minimum depth for national championship meets.
- Light intensity over starting platforms and turning ends shall be no less than 100 foot candles (600 lux).
- Lanes must be 2.13 meters (7 ft.) wide. For national championships, lanes must be at least 2.5 meters (8 ft. 2 and 1/2 inches) wide with additional open water space of at least .45 meters (1 ft. 6 inches) outside of each the first and last lanes.
- Water temperature shall not be less than 26 degrees Celsius or 78 degrees Fahrenheit (with a nominal plus or minus 1 degree Celsius and two degrees Fahrenheit).
- Air temperature for indoor pools must be no lower than 76 degrees Fahrenheit (eight feet above deck level); humidity must be no greater than 60 percent and air velocity no less than 25 feet per minute.

SOUTHERN ZONE 2008		
LSC	Clubs	Swimmers
Florida	82	7,468
Florida Gold Coast	45	4,518
Georgia	48	6,669
South Carolina	22	2,136
North Carolina	63	6,434
W. Virginia	10	575
Kentucky	32	2,430
Southeastern	69	6,599
Mississippi	14	1,479
Louisiana	29	2,155
Gulf	35	5,230
N. Texas	27	4,694
S. Texas	42	5,100
W. Texas	8	613
Border	7	676
Total	533	56,776
Source: USA Swimming		

The minimum facility requirement for local meets during the school year is a six lane 25-yard pool. During the summer months, when long course swimming prevails, six or eight lane 50-meter pools are the norm. In either case, seating for spectators is considered a bonus, especially if that seating is off deck.

United States Masters Swimming

United States Masters Swimming (USMS) programs are open to all adult swimmers (fitness, triathlete, competitive, non-competitive) dedicated to improving their fitness through swimming. Founded in 1970, the non-profit corporation is organized with 450 clubs throughout the United States. Membership consists of more than 50,000 swimmers ranging in age from 18 to over 100. Within the clubs, structured workouts offer training assistance for specific goals for a healthy lifestyle through camaraderie. Pool and open water races provide opportunities to compete and measure individual progress at the local, state, national, and international levels. USMS programs also offer stroke and technique clinics, workshops, instruction, and social functions. Competitions are organized by age groups of five-year increments (18-24, 25-29, 30-34, 35-39, etc. to 95 and over). Events include 50, 100, 200, 500, 1000 and 1650 freestyle (400, 800 and 1500 in meters); 50, 100 and 200 backstroke, breaststroke and butterfly; and 100, 200, and 400 individual medleys. There are also freestyle and medley relays for men, women, and/or mixed teams. Open water swims are held in most locales during the summer and can range in distance from one to ten miles.

Special events such as seeing how far you can swim in one hour are contested through the mail. USMS hosts two national championship meets a year. A short course (25-yard pool) championship is held in May and a long course (50-meter pool) championship is held in August. These four-day events rotate to different locations around the country. International championships are conducted periodically by Masters Swim organizations in countries throughout the world.¹⁴

Community Swim and Dive Teams

Numerous communities sponsor competitive swimming and diving teams for children and teens. The purpose is to offer opportunity to enjoy the healthy fun of swimming; to support individual achievement of personal bests; and to promote goal setting, life skills, and sportsmanship. Teams typically adhere to recognized swimming rules and swim the standard strokes of swim meets but in shorter lengths. Swimmers with limited or no competitive experience are provided stroke conditioning clinics as a recommended alternative. Teams are usually more active in the warmer months, and not directly associated with a national swim organization. Many swimmers who begin their competitive swimming experience on a local swim team proceed to join nationally governed teams.

Pool Rental

Competitive swimmers, particularly members of independent swimming associations, are accustomed to renting lane space for training as well as leasing entire facilities, either for long-term use or on a one- to three-day basis for special events and competitions. Although there is more than one accepted way to receive fees from swim teams, pool lane rental is usually based on cost per lane/per hour. Entire facilities leased on a per-day basis generally have a fixed schedule of costs for such use. Long-term facility leases are generally the product of negotiation and, accordingly, are too varied and specialized for consideration in the context of this study. The following is an example for calculating lane rental fees using a cost per lane approach.

COST PER LANE/PER HOUR CALCULATION										
days	lane rental hrs per day	lane rental annual hrs	pool size	sq. ft. of pool	annual expenses	operation cost per sq. ft.	# of lanes	sq. ft. per lane	cost to operate each lane	lane rental
360	9	3,240	25 by 25	6,150	\$ 400,000	\$ 65	10	615	\$ 40,000	\$ 12.35
360	9	3,240	50-meter	12,300	\$ 1,000,000	\$ 81	22	559	\$ 45,455	\$ 14.03
100	9	900	50-meter	12,300	\$ 300,000	\$ 24	22	559	\$ 13,636	\$ 15.15
100	9	900	25 by 25	6,150	\$ 150,000	\$ 24	10	615	\$ 15,000	\$ 16.67

Source: Counsilman-Hunsaker

1. Multiply days open by lane rental hours per day = lane rental annual hours
2. Divide annual expenses (no labor) by square foot of pool = operation cost per square foot
3. Divide square foot of pool by # of lanes = square foot per lane
4. Multiply operation cost per square foot by square foot per lane = cost to operate each lane
5. Divide cost to operate each lane by lane rental annual hours = lane rental fee

Section 4: Area Provider Analysis

City of Richardson Pools

Aquatic Providers 0-10 Miles

Aquatic Providers 10-15 Miles

Aquatic Providers 15-20 Miles

Aquatic Providers 20-25 Miles

Section 4: Area Provider Analysis

The recreation industry is a competitive market vying for disposable income driven by population trends, income levels, demographic profiles, and favorable locations. Large aquatic centers and destination facilities offer a grand scale of cutting-edge amenities, deliver a unique customer experience, and draw from a large radius. Small to medium aquatic centers compete by offering family amenities in a cozy atmosphere, thus delivering a friendly customer experience, and serving a local market. The City of Richardson's goal is not to compete for services, but to deliver high quality programs at a reasonable cost to taxpayers. The following information, regarding aquatic facilities within the vicinity, is used to locate gaps in programs and services in the immediate area.

City of Richardson Pools

The City of Richardson operates five outdoor pools from 1 p.m. – 9 p.m. during the summer season. Programming includes summer swim lessons, pool and sprayground rentals, and City of Richardson (COR) USA Swim Team. Indoor practice locations for COR are held at Berkner High School and JJ Pearce High School.

Arapaho Pool

711 W. Arapaho Rd.
Richardson, TX
(972) 671-0184

Arapaho Pool	
Amenities	
L-Shaped Outdoor Pool	
1-meter Diving Board	
Small Waterslide	
Fees	
Daily	
Age 4 & Under	FREE
Age 5+	\$2
Season Pass	
Individual	\$30



Arapaho Pool was built in 1964. A sprayground was added in 1995.

Canyon Creek Pool

600 Aspenwood Dr.
Richardson, TX
(972) 671-0185

Canyon Creek Pool	
Amenities	
L-Shaped Outdoor Pool	
1-meter Diving Board	
Small Waterslide	
Tot Pool	
Fees	
Daily	
Age 4 & Under	FREE
Age 5+	\$2
Season Pass	
Individual	\$30



Canyon Creek Pool was built in 1970.

Cottonwood Pool

1321 W. Belt Line Road
Richardson, TX
(972) 644-7156

Cottonwood Pool	
Amenities	
6 lane 25-yard Outdoor Pool	
Small Waterslide	
Diving Pool	
Two 1-meter Diving Boards	
Fees	
Daily	
Age 4 & Under	FREE
Age 5+	\$2
Season Pass	
Individual	\$30



Cottonwood Pool was built in 1965.

Glenville Pool

500 S. Glenville Drive
Richardson, TX
(972) 671-0187

Glenville Pool	
Amenities	
Outdoor Rectangular Pool 1-Meter Diving board Small Waterslide	
Fees	
Daily	
Age 4 & Under	FREE
Age 5+	\$2
Season Pass	
Individual	\$30



Glenville Pool was built in 1970. A sprayground was added in 2003.

Terrace Pool

300 N. Lois Lane
Richardson, TX
(972) 671-0190

Terrace Pool	
Amenities	
Outdoor Rectangular Pool Zero-Depth Entry Water Feature Small Waterslide Tot Pool	
Fees	
Daily	
Age 4 & Under	FREE
Age 5+	\$2
Season Pass	
Individual	\$30



Terrace Pool was built in 1959. Features also include a basketball hoop.

Aquatic Providers 0-10 Miles

City of Garland (4 miles)

The City of Garland operates four pools: Holford Pool, Bradfield Pool, Wynne Park Pool, and Surf & Swim Wave Pool.

Holford Pool

2322 Homestead Pl.
Garland, TX
(972) 205-2776



Holford Pool	
Amenities	
5-lane 25-meter Outdoor Pool	
Fees	
Age 4 & Under	FREE
Age 5+	\$1.50
Season Pass	
20 coupons	\$20

Holford Pool features wheelchair accessibility, a stairwell entry, and shade structures. Programming includes swim lessons. Pool rentals are available on weekends from 6:30 p.m. – 8:30 p.m. for \$200.

Bradfield Pool

1150 Castle Dr.
Garland, TX
(972) 205-2774



Bradfield Pool	
Amenities	
50-meter Outdoor Pool	
2-Story Waterslide	
Sprayground	
Fees	
Age 2 & Under	FREE
Under 48"	\$1.50
48" & Over	\$3

Bradfield Pool offers swim lessons and water fitness classes. Pool rentals are available on weekends from 6:30 p.m. – 8:30 p.m. for \$400.

Wynne Park Pool
 3858 S. Glenbrook Dr.
 Garland, TX
 (972) 205-2777



Wynne Park Pool	
Amenities	
25-meter Outdoor Pool	
Fees	
Age 4 & Under	FREE
Age 5+	\$1.50

Programming at Wynne Park Pool includes swim lessons. Pool rentals are available on weekends from 6:30 p.m. – 8:30 p.m. for \$200.

Surf & Swim Wave Pool
 440 W. Oates Rd.
 Garland, TX
 (972) 205-3993



Surf & Swim Wave Pool	
Amenities	
Half-million gallon Wave Pool	
Sprayground	
Concessions	
Fees	
Daily	
Age 2 & Under	FREE
Under 48"	\$5
48"+	\$6
Season Pass	
10 coupons:	
Under 48"	\$40
48"+	\$30

Surf and Swim is a 4-acre aquatic complex in Garland, TX.

Hawaiian Falls Garland

4550 North Garland Ave.

Garland, TX



Hawaiian Falls Garland	
Amenities	
Wave Pool	
Half-Pipe Tube Ride	
Large Water Structure	
Speed Waterslides	
Children's Activity Pool	
Lazy River	
Mat Racer	
Concessions	
Fees	
Daily	
2 & Under	FREE
48" & Under	\$12
48"+	\$19
Age 60+	\$12
Season Pass	
Individual	\$80

Hawaiian Falls is a waterpark chain owned by Harvest Family Inc., a California-based, Christian-oriented organization. The chain is composed of three waterparks in the Dallas-Fort Worth metroplex. Hawaiian Falls Garland opened in 2003, followed by Hawaiian Falls The Colony in 2004, and then Hawaiian Falls Mansfield. Hawaiian Falls Garland is open during the summer Monday through Saturday from 10:30 a.m. to 7 p.m. and on Sundays from noon to 7 p.m.

City of Plano (5 miles)

The City of Plano operates six aquatic facilities: Jack Carter Pool, Liberty Recreation Center Pool, Harry Rowlinson Community Natatorium, the Tom Muehlenbeck Center Pools, Oak Point Center, and the Plano Aquatic Center.

Jack Carter Pool

2800 Maumelle Dr.
Plano, TX



Jack Carter Pool	
Amenities	
Outdoor 8 Lane 50-Meter Pool	
Waterslide	
1-Meter Divingboard	
Wading Pool	
Zero-Depth Entry	
Tot Slide	
Fees	
Daily	
2 & Under	FREE
3 to16	\$3
17+	\$6
Resident Annual Pass	
3 to16	\$80
17 to 59	\$130
60+	\$100
Nonresident Annual Pass	
3 to16	\$160
17 to 59	\$260
60+	\$200
Work in Plano	\$195

The City of Plano operates Jack Carter Pool, an outdoor 50-meter swimming pool that provides seasonal recreation swimming. The pool is also available for rental.

Liberty Recreation Center Pool
 2601 Glencliff Dr.
 Plano, TX



Liberty Rec. Center Pool	
Amenities	
Outdoor Recreation Pool	
Fees	
Daily	
2 & Under	FREE
3 to16	\$3
17+	\$6
Resident Annual Pass	
3 to16	\$80
17 to 59	\$130
60+	\$100
Nonresident Annual Pass	
3 to16	\$160
17 to 59	\$260
60+	\$200
Work in Plano	\$195

The City of Plano’s Liberty Recreation Center features a four lane outdoor swimming pool where one lap lane is open during public swim hours. Aquatic programming includes swim lessons, stroke clinics, aquatic resistance training, arthritis aquatic programs, water aerobics, CPO, gym & swim, diving lessons, lifeguard training, water fitness instructor training, water jogging, water walking, water polo, water safety instruction, water babies, water tots, and youth swim conditioning.

Harry Rowlinson Community Natatorium
 1712 P Avenue
 Plano, TX



Harry Rowlinson Natatorium	
Amenities	
Indoor 6 Lane 25-Yard Pool	
Drop Slide	
Shallow Water Training Area	
Zero-Depth Entry Ramp	
Fees	
Daily	
2 & Under	FREE
3 to16	\$3
17+	\$6
Resident Annual Pass	
3 to16	\$80
17 to 59	\$130
60+	\$100
Nonresident Annual Pass	
3 to16	\$160
17 to 59	\$260
60+	\$200
Work in Plano	\$195

The City of Plano operates Harry Rowlinson Community Natatorium, which offers year-round swimming with zero-depth entry and a shallow-water training area for younger swimmers. Recent renovation of this dual-use Plano Park and Recreation / high school competitive pool includes installation of a new stainless steel gutter, structure, finish, piping, and mechanical system. Programming includes high school swim team and youth swim team.

Tom Muehlenbeck Center Pool

5801 W. Parker Rd.

Plano, TX

Tom Muehlenbeck Ctr. Pool	
Amenities	
Indoor 8 Lane 25-Yard Pool	
Diving Board	
Indoor Leisure Pool	
Drop Slide	
Outdoor Leisure Pool	
Waterslide	
2 Walking Lanes	
Play Structure	
Vortex	
Current Channel	
Sprayground	
Fees	
Daily	
2 & Under	FREE
3 to16	\$3
17+	\$6
Resident Annual Pass	
3 to16	\$80
17 to 59	\$130
60+	\$100
Nonresident Annual Pass	
3 to16	\$160
17 to 59	\$260
60+	\$200
Work in Plano	\$195



The City of Plano operates the Tom Muehlenbeck Center that features both indoor and outdoor pools. The natatorium complements the center’s flowing architecture with a strong visual connection between the inside and outside bodies of water. An eight lane 25-yard indoor pool with on-deck seating provides competitive aquatics while indoor and outdoor recreation pools offer attractions for family entertainment and relaxation. Programming includes swim lessons, CPO, deep water aerobics, and water babies.

Oak Point Center
 6000 Jupiter Road
 Plano, TX

Oak Point Center	
Amenities	
Indoor 8 Lane 50-Meter Pool	
Indoor Leisure Pool Area	
Waterslide	
Tumble Buckets	
Zero-Depth Entry Ramp	
Outdoor Shallow Water Pool	
Waterslide	
Zero-Depth Entry	
Water Playground	
Spray Features	
Fees	
Daily	
2 & Under	FREE
3 to 16	\$3
17+	\$6
Resident Annual Pass	
3 to 16	\$80
17 to 59	\$130
60+	\$100
Nonresident Annual Pass	
3 to 16	\$160
17 to 59	\$260
60+	\$200
Work in Plano	\$195



Plano Parks and Recreation Department opened Oak Point Center in March 2000 with both indoor and outdoor aquatics. Aquatic programming includes public swim, lap swimming, swim lessons, special aquatics, Masters swim team, swim conditioning, stroke clinic, aquatic resistance training, water aerobics, lifeguard training, water babies, and pool party rentals.

Plano Aquatic Center

2301 Westside Dr.

Plano, TX

Plano Aquatic Center	
Amenities	
Indoor 25-Yard Pool Shallow Water Training Area Outdoor Sprayground	
Fees	
Daily	
2 & Under	FREE
3 to16	\$3
17+	\$6
Resident Annual Pass	
3 to16	\$80
17 to 59	\$130
60+	\$100
Nonresident Annual Pass	
3 to16	\$160
17 to 59	\$260
60+	\$200
Work in Plano	\$195



The City of Plano operates this aquatic facility, which offers a shallow-water training area for younger swimmers and an outdoor sprayground during the summer. Programming includes Masters swimming, youth swim team, swim lessons, swim conditioning, water aerobics, gym & swim, water jogging, water walking, water babies, and pool party rentals.

Aqua Fit Swim and Wellness Center

1400 Summit Ave.

Plano, TX

Aquat Fit Swim /Wellness Ctr.	
Amenities	
Indoor 25 x 15 Pool Salt Water System	
Fees	
Not available	

Aqua Fit Swim and Wellness Center is a private indoor warm salt-water pool that offers open swim, lap swimming, water exercise, physical therapy, arthritis foundation aquatic program, swim lessons, birthday parties, parent organization groups, and home school open swim/lessons. The center has a message recording system to return your call to discuss their fees.

Swim Plus Divers Training Center

1108 Dobie Drive
Plano, TX

Swim Plus Training Center	
Amenities	
Indoor 20 x 40 Pool	
Fees	
Membership	
Annual	\$120.00
Classes	Extra

Swim Plus Divers Training Center is a private indoor heated pool available for rental for water exercise classes, water therapy, private swim parties, and scuba equipment testing. The pool accommodates lap swimming, water exercise, physical therapy, swim lessons, CPR classes, lifeguard training, WSI, snorkeling, scuba classes, and wellness workshops.

Aquatic Providers 10-15 Miles

City of Carrollton (10 miles)

The City of Carrollton operates two aquatic facilities: W.J. Thomas Swimming Pool and the Rosemeade Rainforest Aquatic Complex.

W.J. Thomas Swimming Pool

1955 N. Perry Rd.
Carrollton, TX
(972) 466-6376



W.J. Thomas Swimming Pool	
Amenities	
50-meter Outdoor Pool	
Zero-depth Entry	
Two-flume Waterslide	
Concessions	
Fees	
Daily	
Age 3 & Under	FREE
Residents	\$2
Nonresidents	\$4
Season Pass	
Residents	\$40
Family	\$90

W. J. Thomas Swimming Pool is next to Thomas Park baseball fields. Programming includes the Carrollton Aqua Racer swim team, swim lessons, dive lessons, aqua exercise classes, special needs swimming, and pool rentals at \$100 per hour.

Rosemeade Rainforest Aquatic Complex

1334 E. Rosemeade Pkwy.

Carrollton, TX

(972) 466-6399



Rosemeade Rainforest	
Amenities	
50-meter Outdoor Pool	
25-meter Outdoor Pool	
Diving Pool	
Training Pool	
22-ft Two-flume Waterslide	
Zero-Depth Entry	
Two Platform Levels w/ Bridge	
Spray Features	
200-ft. Lazy River	
600-gallon Dump Bucket	
Renovated Bathhouse	
Concessions	
Fees	
Daily	
Age 3 & Under	FREE
Residents	\$3
Nonresidents	\$6
Season Pass	
Residents	\$50
Family	\$100

Aquatic Rosemeade Rainforest Complex is located adjacent to Rosemeade Recreation Center. Programming includes the Carrollton Aqua Racer swim team, swim lessons, dive lessons, aqua exercise classes, special needs swimming, and pool rentals at \$150 per hour.

[City of Allen \(10 miles\)](#)

The City of Allen operates two aquatic facilities: the Don Rodenbaugh Natatorium and Ford Pool.

Don Rodenbaugh Natatorium

Aquatic and Fitness Center
 110 E. Rivercrest
 Allen, TX



Don Rodenbaugh Natatorium	
Amenities	
Indoor 7,000 SF Leisure Pool	
(3) 25-Yard Fitness Lap Lanes	
Flume Waterslide	
Interactive Play Elements	
Current Channel	
Spa	
Outdoor Deck	
Indoor 25-Yard by 25-Meter Pool	
(2) 1-Meter Diving Boards	
Fees	
Daily	
2 & Under	FREE
3 to 17	\$4
18 to 50	\$5
Senior 50+	\$3
Resident Annual Pass	
3 to 13	\$83
14 to 17	\$132
18 to 50	\$165
Senior 50+	\$132
Resident 3-Month Pass	
Individual	\$60
Resident 6-Month Pass	
Individual	\$100
Nonresident Annual Pass	
3 to 13	\$152
14 to 17	\$202
18 to 50	\$235
Senior 50+	\$202
Resident 3-Month Pass	
Individual	\$85
Resident 6-Month Pass	
Individual	\$145

Programming at the Don Rodenbaugh Natatorium includes swim lessons, water babies, scuba diving, American Red Cross lifeguard training, stroke mechanics and technique, and aqua exercise classes. The natatorium also provides room rental for birthday parties and an indoor rock climbing wall. Two deep water lap lanes are available for public lap swimming during facility hours. The natatorium is the site for the Allen High School District swim meets. Membership includes use of Ford Pool.

Ford Pool

704 Whitman Drive

Allen, Texas

Ford Pool	
Amenities	
Outdoor Pool	
Fees	
Daily	
6 & Under	FREE
Individual	\$1.75
Annual Pass	
Individual	\$45
Family of 2	\$75
Family of 3	\$90
Family of 4	\$105
Family of 5	\$110
Family of 6	\$115
Family of 7	\$120
Family of 8+	\$125



The City of Allen operates Ford Pool, which offers open swimming (1 p.m. to 6 p.m.), swim lessons, and Family Nights. Admission is FREE with membership to the Natatorium or a Ford Pool pass. Ford Pool is available to rent (residents only) most Saturday and Sunday mornings from 10:30 a.m. to 12:30 p.m. and evenings from 6:30 p.m. to 8:30 p.m. during June, July, and August.

City of Mesquite (10 miles)

The City of Mesquite operates four aquatic facilities: Vanston Swimming Pool, City Lake Aquatic Center, Town East Pool, and Evans Swimming Pool. (972) 216-6260

Vanston Swimming Pool

2913 Oates Dr.
Mesquite, TX
(972) 270-2687



Vanston Pool	
Amenities	
3 lane Outdoor Lap Pool	
Zero-depth Entry Leisure Pool	
Participatory Play Feature	
Shade Structures	
Fees	
Daily	
Age 3 to 54	\$4
Age 55+	\$2
10-Visit Pass	\$30.00

Programming at Vanston Swimming Pool includes swim lessons.

City Lake Aquatic Ctr.

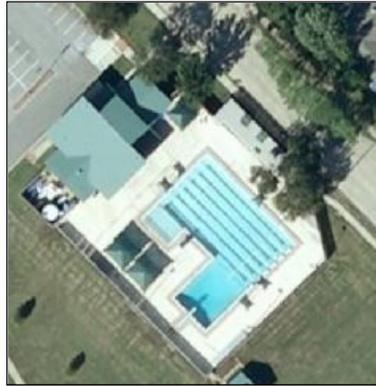
200 Parkview St.
Mesquite, TX
(972) 285-5277



City Lake Aq. Ctr.	
Amenities	
3 lane Outdoor Lap Pool	
Zero-depth Entry Leisure Pool	
Participatory Play Feature	
Shade Structures	
2 Corkscrew Waterslides	
Fees	
Daily	
Age 3 to 54	\$4
Age 55+	\$2
10-Visit Pass	\$30.00

Programming at the City Lake Aquatic Center includes swim lessons.

Town East Pool
 2525 John Glenn Pkwy.
 Mesquite, TX
 (972) 270-2683



Town East Pool	
Amenities	
6 lane 25-yard Outdoor Pool	
Diving Pool	
Fees	
Daily	
Age 3 to 54	\$2
Age 55+	\$1
20-Visit Pass	\$30.00

Programming at the Town East Pool includes swim lessons.

Evans Swimming Pool (Closed 2009)
 1200 Hillcrest St.
 Mesquite, TX
 (972) 289-9151

The Colony (13 miles)

Colony City Aquatic Park

5580 N. Colony Blvd.

The Colony, TX

(972) 624-2225



Colony City Aquatic Park	
Amenities	
Heated Indoor Pool	
Outdoor Leisure Lagoon	
Wading Pool	
Children's Splash Zone	
Fees	
Daily	
Age 6 & Under	\$3
Age 7+	\$4
Season Pass	
Resident	\$36
Nonresident	\$71
Resident Family	\$80
Nonresident Fam.	\$160

Programming at Colony City Aquatic Park includes swim lessons, competitive swim classes, activities, and rentals. The Aquatic Park features an indoor heated pool during the winter and spring months. Classes in fitness, kayaking, competitive swimming, scuba, & lap swimming are held year-round. This facility also hosts high school swim teams.

Hawaiian Falls The Colony

4400 Paige Road

The Colony, TX



Hawaiian Falls The Colony	
Amenities	
Wave Pool	
Half-Pipe Tube Ride	
Mat Racer	
Inner Tube Slides	
Drop Slides	
Large Play Feature	
Lazy River	
Water Walkway	
Rental Cabanas	
Concessions	
Fees	
Daily	
2 & Under	FREE
48" & Under	\$12
48"+	\$19
Age 60+	\$12
Season Pass	
Individual	\$80

Hawaiian Falls is a waterpark chain owned by Harvest Family Inc., a California-based, Christian-oriented organization. The chain is composed of three waterparks in the Dallas-Fort Worth metroplex. Hawaiian Falls Garland opened in 2003, followed by Hawaiian Falls The Colony in 2004, and then Hawaiian Falls Mansfield. Hawaiian Falls The Colony is open during the summer on Monday, Tuesday, Thursday, and Friday from 10:30 a.m. to 7 p.m.; on Wednesday from 10:30 a.m. to 5:30 p.m.; on Saturday from 10:30 a.m. to 6 p.m.; and on Sunday from Noon to 7 p.m.

City of Dallas (14 miles)

The City of Dallas is responsible for the operation and programming of the city's 21 municipal swimming pools, seven spraygrounds, and a waterpark. Aquatic programming includes swim lessons, lifeguard training, water safety instruction courses, and swim teams. Most pools are older rectangular pools with little or no amenity with the exception of Hawaiian Falls Water Park, which is a state-of-the-art outdoor aquatic center.

1. Jacee-Zaragoza Pool

3125 Tumalo Tr.
Dallas, TX
214.670.6465

Jaycee Pool offers swim lessons, aquatic exercise, water aerobics and swim team.

City of Dallas Pools	
Amenities	
21 Rectangular Outdoor Pools	
7 Spraygrounds	
1 Waterpark	
Fees	
Daily	
Age 5 & Under	FREE
Age 11 & Under	\$1
Age 12+	\$2

2. Martin Weiss Pool

3440 Clarendon
Dallas, TX
214.670.1989

Martin Weiss Pool offers swim lessons and swim team.

3. Tipton Pool

3607 Magdeline
Dallas, TX
214.670.6466

Tipton Pool offers swim lessons and swim team.

4. Hattie Rankin Moore Swim Pool

3122 N. Winnetka Ave.
Dallas, TX
214.670.1391

- 30 yard pool

H.R. Moor Pool offers swim lessons and swim team.

5. Kidd Springs Swimming Pool

807 W. Canty St.
Dallas, TX
214.670.6817

Kidd Springs Pool offers swim lessons and swim team.

6. Grauwlyer Swimming Pool

2157 Anson Road
Dallas, TX
214.670.6444

Grauwlyer Pool offers swim lessons and swim team.

7. Glendale Swimming Pool

1534 W. Five Mile Parkway
Dallas, TX
214.670.1977

8. Bonnie View Swimming Pool

2124 Huntingdon Ave.
Dallas, TX
214.670.6821

9. Exline Swimming Pool

2430 Eugene St.
Dallas, TX
214.670.0350

Exline Pool offers swim team.

10. Samuell-Grand Swimming Pool

3201 Samuell Blvd.
Dallas, TX
214.670.1379

Samuell-Grand Pool offers a junior lifeguard program, diving/fitness, and swim team.

11. Tietze Swimming Pool

6115 Llano Ave.
Dallas, TX
214.670.1380

Tietze Pool offers diving/fitness and swim team.

12. Juanita J. Craft Swimming Pool

3125 Lyons St.
Dallas, TX
214.670.0343

J.J. Craft Pool offers American Red Cross Lifeguard Certification, diving/fitness, and swim team.

13. Walnut Hill Swimming Pool

4141 Walnut Hill Lane
Dallas, TX
214.670.6433

Walnut Hill Pool offers swim lessons and swim team.

14. Everglade Pool

5100 Jim Miller
Dallas, TX
214.670.0940

Everglade Pool offers swim team.

15. Tommie M. Allen Pool

6901 Bonnie View
Dallas, TX
214.670.0982

16. Harry Stone Pool

2403 Millmar Drive
Dallas, TX
214.670.0950

Harry Stone Pool offers junior lifeguard program, diving/fitness, and swim team.

17. Pleasant Oaks Pool

8701 Greenmound
Dallas, TX
214.670.0941

Pleasant Oaks Pool offers swim team.

18. Lake Highlands Pool

9940 White Rock Tr.
Dallas, TX
214.670.1346

Lake Highlands Pool offers swim lessons and swim team.

19. Churchill Pool

7025 Churchill Way
Dallas, Texas
214.670.6177

Churchill Pool offers swim lessons and swim team.

20. McCree Pool

9016 Plano Road
Dallas, TX
214.670.0389

McCree Pool offers swim lessons and swim team.

21. Fretz Pool

14739 Hillcrest
Dallas, TX
214.670.6464

Fretz Pool offers swim lessons, deep water workout, shallow water workout and swim team.

City of Dallas Spraygrounds:

Danieldale Sprayground

300 W. Wheatland
Dallas, TX
Hours: 8am – 8pm

Mildred Dunn Sprayground

3322 Reed Lane
Dallas, TX
Hours: 8am – 8pm

Janie C. Turner Sprayground

6424 Elam
Dallas, TX
Hours: 8am – 8pm

Umphress Sprayground

7616 Umphress
Dallas, TX
Hours: 8am – 8pm

Campbell Green Sprayground

6600 Parkhill Drive
Dallas, TX
Hours: 8am – 8pm

Ridgewood Sprayground

6818 Fisher Road
Dallas, TX
Hours: 8am – 8pm

Lake Highlands Sprayground

9940 White Rock
Dallas, TX
Hours: 8am – 8pm

Hawaiian Falls Water Park

1808 Ariel Drive
 Dallas, TX
 214.670.1917



Hawaiian Falls Waterpark	
Amenities	
Zero-depth Entry Leisure Pool	
Large Waterslides w/ Catch Pools	
Mat Racer	
Lazy River	
Participatory Play Feature	
Spray Features	
Island	
Concessions	
Fees	
Daily	
Age 2 & Under	FREE
48" & Under	\$7
48"+	\$13

Hawaiian Falls is a state-of-the art outdoor medium-sized water park operated by the City of Dallas.

Alfred J. Loos Natatorium

3815 Spring Valley Rd.
 Addison, TX 75244
 972-888-3191



Alfred J. Loos Natatorium	
Amenities	
8 lane 50-meter Indoor Pool	
Bulkhead	
Fees	
Daily	
Individual	\$2

Loos Natatorium is owned and operated by Dallas ISD. Loos has been included in this section because it is the only 8 lane 50-meter indoor pool located in the Dallas area. This competition pool is home to the Dallas Mustangs Swim Team and Masters Swim Team. The bulkhead can configure the pool as two 25-yard courses. During the fall and winter (short-course season), Loos is divided into two eight lane 25-yard pools and during the spring and summer the pool is expanded to its 50-meter length for long-course workouts.

Aquatic Providers 15-20 Miles

City of Irving (16 miles)

The City of Irving is responsible for the operation and programming of eight municipal swimming pools, including North Lake Aquatic Center, Heritage Aquatic Center, Lee Pool, Northwest Pool, Southwest Pool, Lively Pool, Senter Pool, and the new West Irving Aquatic Center slated for 2010.

North Lake Aquatic Center

50001 MacArthur
Irving, TX
972.273.3531



North Lake Aquatic Center	
Amenities	
50-meter Indoor Pool	
Fees	
Daily	
Age 3 & Under	FREE
Age 4 to 17	\$1
Age 18 to 50	\$2
50+	FREE
Annual Pass	
Age 4 to 17	\$40
Age 18+	\$65
Family	\$125

The City of Irving's North Lake Aquatic Center is open year-round for classes and swimming activities. The natatorium is jointly owned by the City of Irving, Irving Independent School District, and the Dallas County Community College District. Open swim times are Monday – Friday 6 a.m. to 8 a.m., 11:30 a.m. to 3 p.m., Tuesday/Thursday 6:30 p.m. to 10 p.m., Friday 6:30 p.m. to 9 p.m., Saturday 1 p.m. to 8 p.m., and Sunday 1 p.m. to 5 p.m. Note: May be closed on some Saturdays and Sundays for special events. Limited lap lanes are available during open swim time. North Lake students and faculty members admitted free with college I.D.

Heritage Aquatic Center

200 S. Jefferson Street

Irving, TX

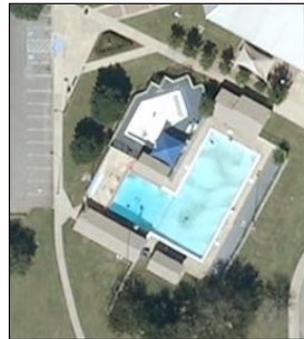
972.721.7310

Heritage Aquatic Center	
Amenities	
20-yard Indoor Pool	
40' Corkscrew Waterslide	
45' Speed Waterslide	
Lap Lanes	
Current Channel	
12-person Spa	
Ramp, Chair Lift, Steps, Rails	
Fees	
Daily	
Age 3 & Under	FREE
Age 4 to 17	\$1
Age 18 to 50	\$2
Age 50+	FREE
Annual Pass	
Age 4 to 17	\$40
Age 18+	\$65
Family	\$125

The City of Irving's Heritage Aquatic Center is open year round and offers aqua aerobics and wellness classes. Kickboards, hand buoys, and life jackets are available. Saturdays offer free water safety presentations.

Lee Pool
 3000 Pamela
 Irving, TX
 972.721.2585

Lee Pool	
Amenities	
25-meter Outdoor Pool	
1-meter Diving Board	
Fees	
Daily	
Age 3 & Under	FREE
Age 4 to 17	\$1
Age 17+	\$1.50



The City of Irving's Lee Pool was built in the 1960's.

Northwest Pool
 2800 Cheyenne
 Irving, TX
 972.721.2609

Northwest Pool	
Amenities	
25-meter Outdoor Pool	
1-meter Diving Board	
Fees	
Daily	
Age 3 & Under	FREE
Age 4 to 17	\$1
Age 17+	\$1.50



The City of Irving's Northwest Pool was built in the 1960's.

Southwest Pool
 3100 W. Shady Grove

Irving, TX
972.721.2408

Southwest Pool	
Amenities	
25-meter Outdoor Pool	
1-meter Diving Board	
Fees	
Daily	
Age 3 & Under	FREE
Age 4 to 17	\$1
Age 17+	\$1.50

The City of Irving's Southwest Pool was built in 1972.

Lively Pool
915 O'Connor
Irving, TX
972.721.2597

Lively Pool	
Amenities	
100' Outdoor Pool	
1-meter Diving Board	
Fees	
Daily	
Age 3 & Under	FREE
Age 4 to 17	\$1
Age 17+	\$1.50

The City of Irving's Lively Pool was built in the 1950's. Hours are Monday/Tuesday/Friday from 1 p.m. to 9 p.m. and Saturday/Sunday from 1 p.m. to 7 p.m.

Senter Pool

901 Senter
Irving, TX
972.721.2638



Senter Pool	
Amenities	
25-meter Outdoor Pool	
1-meter Diving Board	
2-meter Diving Board	
Tot Pool	
Fees	
Daily	
Age 3 & Under	FREE
Age 4 to 17	\$1
Age 17+	\$1.50

The City of Irving's Senter Pool is over 50-years old.

West Irving Aquatic Center

A new state-of-the-art aquatic center will be of 2010 and located near the Georgia Farrow within walking distance to future DART Irving Aquatic Center will offer more than water attractions. Features will include four 25-wheelchair accessible entrance ramp, and such as a rock climbing wall that extends 8 feet above the water. The center will also have lockers and concessions, zero-depth entry, two waterslides, an interactive playground, and a shaded toddler pool. There will be numerous shaded areas available for picnics, parties, and lounging.



built by the summer Recreation Center stations. The West 10,000 sq. ft. of yard lap lanes with a unique amenities

Aquatic Providers 20-25 Miles

City of McKinney (20 miles)

Senior Pool

1400 South College

McKinney, TX

Senior Pool	
Amenities	
Indoor 4 Lane Pool	
Fees	
9 and Under	\$1.25
10+	\$2



The City of McKinney operates Senior Pool, an indoor heated pool with year-round programming, including water exercise classes, lap swimming, and swim lessons.

Old Settler’s Aquatic Center

1101 E. Louisiana St.

McKinney, TX

Old Settler's Aquatic Ctr.	
Amenities	
Outdoor Shallow Water Pool	
Open Flume Slide	
Bubblers	
Waterfall	
Tea Cup	
Lemon Drops	
Fees	
Daily	
9 & Under	\$1.25
10+	\$2
Passes	
30 Visits Child	\$25
30 Visits Adult	\$35
Annual	
Child	\$50
Adult	\$75



The City of McKinney operates Old Settler’s Aquatic Center, a seasonal shallow-water recreation pool, offering recreation swimming, private party pool rentals, and party pavilion rentals.

Juanita Maxfield Pool

North Park
1701 North McDonald
McKinney, TX

Juanita Maxfield Pool	
Amenities	
Outdoor Recreation Pool	
Water Walk	
Diving Board	
Fees	
Daily	
9 & Under	\$1.25
10+	\$2
Passes	
30 Visits Child	\$25
30 Visits Adult	\$35
Annual	
Child	\$50
Adult	\$75



The City of McKinney operates the Juanita Maxfield Pool, an outdoor seasonal pool, offering swim lessons and recreation swimming.

Finch Park Splash Pad

301 W. Standifer
McKinney, TX

Finch Park Splash Pad	
Amenities	
1,500 Sq. Ft. Splash Pad	
Shooting Arches	
Timed Spray Spouts	
Fees	
FREE	



The City of McKinney operates the Finch Park Splash Pad, which is open daily during the summer, using a self-operated button.

McKinney High School Natatorium

1400 Wilson Creek Pkwy.

McKinney, TX

McKinney H.S. Natatorium	
Amenities	
Indoor 6 Lane 25-Yard Pool	
1 Meter Diving Board	
Fees	
Individual	\$1.50

Programming at the McKinney High School Natatorium includes lap swimming, youth swim teams, high school swim team, water aerobics, hydro-fit, SCUBA lessons, lifeguard training, water safety instructor courses, swim lessons, and open swim.

Metroplex Aquatics

503 N. Kentucky St.

McKinney, TX

Metroplex Aquatics	
Amenities	
Indoor 6 Lane 25-Yard Pool	
Fees	
Registration Fee	\$53
45 mins. 2x week	\$40/month
45 mins. 3x week	\$60/month
1.5hrs. 5x week	\$75/month
2 hrs. 6x week	\$80/month
High Schooler	\$40/month
Masters	\$40/month



Metroplex Aquatics, Inc. (Metro) was established as a private swim center in 1998 under the guidance of Head Coach Brent Mitchell. Metro's mission is to train area youth to swim at different levels through technique foundations and coaching. The team's goal is to

allow swimmers to reach their individual potential in competitive swimming while enjoying interaction with other swimmers. Since its inception, Metro has quadrupled in size and garnered impressive awards and results.

City of Frisco Public Pools (23 Miles)

The City of Frisco is responsible for the operation of two municipal swimming pools (Frisco Athletic Center and Frisco Municipal Pool) and two spraygrounds.

Frisco Athletic Center

5828 Nancy Jane Lane
Frisco, TX



Frisco Athletic Center	
Amenities	
Indoor Aquatic Center	
Play Pool	
Lap Pool	
Activity Pool	
Warm Water Pool	
Participatory Play Feature	
Waterslide	
Current Channel	
Vortex	
Outdoor Aquatic Center	
Leisure Pool	
Waterslides	
Lazy River	
Participatory Play Feature	
Fees	
Daily	
Youth	\$6
Adult	\$8
Resident Annual Pass	
Youth	\$230
Adult	\$350
Senior	\$280
Family	\$600
Nonresident Annual Pass	
Youth	\$350
Adult	\$530
Senior	\$420
Family	\$900

In May 2008, the City of Frisco opened an outdoor 1.8-acre aquatic center, a companion facility to their indoor recreation pool that opened in October 2007. The project was part of a \$16 million dollar recreation center that includes over 60,000 sq. ft. of wet and dry recreation facilities. Cost of the outdoor aquatic facility was just over \$3.4 million. Aquatic programming includes swim lessons, water aerobics, lifeguard training, water safety instructor, birthday parties, and special events.

Frisco Municipal Pool

7775 Camellia Lane

Frisco, TX

Frisco Municipal Pool	
Amenities	
Outdoor Recreation Pool	
Fees	
Daily	
Individual	\$1.25
Resident Annual Pass	
Individual	\$25
Family	\$60



The Frisco Municipal Pool is a seasonal outdoor pool for recreation swimming, summer swim lessons, and special events.

Frisco Spraygrounds (free admission)

J.R. Newman Park

8211 Twin Falls Drive

Frisco, TX

Opened in 2007

Shepherds Glen Park

12012 Shepherds Hill Drive

Frisco, TX

Opened in 2006

City of Grand Prairie (23 miles)

The City of Grand Prairie is responsible for the operation and programming of four municipal swimming pools and one sprayground: Bowles Pool, Tyre Pool, McFalls Pool, Kirby Creek Natatorium, and a sprayground.

McFalls Outdoor Pool

505 Dickey Road
Grand Prairie, TX
972-264-1203



McFalls Pool	
Amenities	
6 lane 25-meter Outdoor Pool	
1-meter Diving Board	
Starting Blocks	
Fees	
Daily	
Individual	\$1

Built in 1958, McFalls Outdoor Pool is currently used for recreation, swimming instruction, swim team training, swim team meets, and pool parties.

Tyre Pool

2327 Tyre Street
Grand Prairie, TX



Tyre Pool	
Amenities	
25-meter Outdoor Pool	
1-meter Diving Board	
Fees	
Daily	
Individual	\$1

Built in 1955, Tyre Pool is used for recreation, swimming instruction, and pool parties. The pool originally had five competitive swim lanes, but is no longer used for competitive swimming.

Bowles Pool

2714 Graham Street
Grand Prairie, TX



Bowles Pool	
Amenities	
6 lane Outdoor 25-meter Pool	
1-meter Diving Board	
Starting Blocks	
Wall Targets, Lane Markings	
Fees	
Daily	
Individual	\$1

Built in 1978, Bowles Pool was renovated in 2001, including the pool pump, filter, exposed piping in the mechanical area, surge tank equipment, main drains, main drain piping, suction piping from the surge tank, pressure piping, replacement of the pool deck, replacement

of the exterior fence, addition of a fabric shade structure, bathhouse renovation, and a ramp from the bathhouse to the pool deck.

Kirby Creek Natatorium

3201 Corn Valley Road
Grand Prairie, TX



Kirby Creek Natatorium	
Amenities	
6 lane 25-meter IndoorPool	
Diving Board	
Starting Blocks	
Seating for Parties	
Fees	
Daily	
Individual	\$2
Annual Pass	
30-Visit Pass	\$40
Individual	\$100
Family of 4	\$250

Kirby Creek Natatorium, built in 1978, is ADA accessible and open year-round. The pool was originally an outdoor pool, but enclosed in 1987. A concrete deck surrounds the pool with a Kool Deck finish. The pool is currently used for recreation swimming, swimming instruction, high school swim team training, water aerobic/fitness classes, and pool parties.

Splash Factory Water Playground (\$1 admission)

601 East Grand Prairie Road
Grand Prairie, TX
972.266-5272

Located behind Charley Taylor Recreation Center, Splash Factory features age-specific play areas and six touch buttons that allow children to interact with the play features. To conserve water, the city installed a swimming filter and chlorination system that re-circulates water through the park. Certified lifeguards monitor and enforce age requirements for the different play areas that include:

City of Grapevine (24 miles)

The Aquatics Division of the City of Grapevine is responsible for the operation and programming of two municipal swimming pools: Dove Pool located in North Grapevine, and Pleasant Glade Pool located in South Grapevine.

Dove Pool

1509 Hood Lane
Grapevine, TX
817-410-8140



Dove Pool is an outdoor facility that offers swim lessons, swim team, lap swimming, open swim, and rentals.

Dove Pool	
Amenities	
Outdoor Lap Pool	
Diving Board	
Tot Pool w/Zero-depth Entry	
Raindrop	
Shade Structures	
Fees	
Daily	
Age 2 & Under	FREE
Age 3+	\$2
Season Pass	
25-Visit Pass	\$30
Individual	\$40
Family	\$80

Pleasant Glade Pool
 1805 Hall Johnson Road
 Grapevine, TX
 817-410-3470



Pleasant Glade Pool of the City of Grapevine is open from Memorial Day to Labor Day from Noon till 5 p.m. and 7:30 to 9:30 p.m.

Pleasant Glade Pool	
Amenities	
6 lane Outdoor Pool	
Tot Pool w/ Water Features	
Shade Structures	
Fees	
Daily	
Age 2 & Under	FREE
Age 3+	\$2
Season Pass	
25-Visit Pass	\$30
Individual	\$40
Family	\$80

Eules Public Pools (24 miles)

The City of Eules is responsible for the operation of three municipal swimming pools: Midway Swimming Pool, South Eules Swimming Pool and Sprayground, and Wilshire Swimming Pool.

Midway Swimming Pool
 300 W. Midway
 Eules, TX
 817.685-1676



Located in Midway Park, the City of Eules' Midway Swimming Pool was built in 1950 and renovated in 1990.

Midway Swimming Pool	
Amenities	
Rectangular Outdoor Pool	
Tube Waterslide	
Picnic Tables	
Fees	
Daily	
Individual	\$1

South Euless Swimming Pool
 600 S. Main Street
 Euless, TX



Located in S. Euless Park, this City of Euless municipal facility was built in 1972. The sprayground was built in 2005. While the pool opens at 1 p.m., the sprayground opens at 9 a.m.

South Euless Swimming Pool	
Amenities	
Rectangular Outdoor Pool	
Tube Waterslide	
Picnic Tables	
Sprayground	
Fees	
Daily	
Individual	\$1

Wilshire Swimming Pool
 315 Sierra Dr.
 817.685-1678

Euless, TX



The City of Euless' swimming pool in Wilshire Park was constructed in 1972.

Wilshire Swimming Pool	
Amenities	
Rectangular Outdoor Pool	
Tube Waterslide	
Picnic Tables	
Fees	
Daily	
Individual	\$1

[City of Arlington \(25 miles\)](#)

The City of Arlington operates five aquatic facilities, including Randol Mill Swimming Pool, Bad Konigshofen Outdoor Family Aquatic Center, Helen Wessler Outdoor Pool, Howard Moore Outdoor Play Pool, and Hugh Smith Indoor Pool.

Randol Mill Swimming Pool

1924 W. Randol Mill Road
 Arlington, TX
 817-275-7542



At the Randol Mill Swimming Pool, programming includes swim lessons, special events, and rentals.

Randol Mill Swimming Pool	
Amenities	
Zero-depth Outdoor Pool	
Current Channel	
Vortex	
Tot Pool	
Tumble Buckets	
Raindrop	
25-ft. Waterslide	
Party Pavilions	
Concessions	
Fees	
Daily	
Age 1 & Under	FREE
Age 13 mos. To 4	\$4.50
Age 5 to 11	\$5
Age 12+	\$5.50
Nonresident	
Age 1 & Under	FREE
Age 13 mos. To 4	\$6.50
Age 5 to 11	\$7
Age 12+	\$7.50
Season Pass	
Less than 48"	\$45
48"+	\$55
Nonresident	
Less than 48"	\$65
48"+	\$75

Bad Konigshofen Outdoor Family Aquatic Center

2800 West Sublett Road

Arlington, TX

817-459-5223



The City of Arlington’s agrarian style aquatic center, located in SJ Stovall Park, offers the design of a quaint region of Germany. Programming includes swim lessons, birthday parties and rentals for special occasions.

Bad Konigshofen	
Amenities	
4 lane 25-meter Outdoor Pool	
Zero-depth Entry Leisure Pool	
1-meter Diving Board	
2 Waterslides	
Shade Structures	
Concessions	
Sprayground	
Fees	
Daily	
Age 1 & Under	FREE
Age 13 mos. To 4	\$4.50
Age 5 to 11	\$5
Age 12+	\$5.50
Nonresident	
Age 1 & Under	FREE
Age 13 mos. To 4	\$6.50
Age 5 to 11	\$7
Age 12+	\$7.50
Season Pass	
Less than 48"	\$45
48"+	\$55
Nonresident	
Less than 48"	\$65
48"+	\$75

Helen Wessler Outdoor Pool

2310 Greenway
 Arlington, TX
 817-275-7561



The City of Arlington’s Helen Wessler Park was renovated in 1996.

Helen Wessler Pool	
Amenities	
Shallow Water Outdoor Play Pool	
Participatory Play Feature	
Vending Machines	
Fees	
Daily	
Age 1 & Under	FREE
Age 13 mos. to 11	\$3
Age 12+	\$3.50
Nonresident	
Age 1 & Under	FREE
Age 13 mos. to 11	\$3.50
Age 12+	\$4
Season Pass	
Less than 48"	\$45
48"+	\$55
Nonresident	
Less than 48"	\$65
48"+	\$75

Howard Moore Outdoor Play Pool

1999 Bever Blvd.

Arlington, TX

817-275-0712



The City of Arlington’s Howard Moore Outdoor Play Pool, located in Howard Moore Park, was renovated in 2003.

Howard Moor Outdoor Pool	
Amenities	
Shallow Water Outdoor Play Pool	
Participatory Play Feature	
Vending Machines	
Fees	
Daily	
Age 1 & Under	FREE
Age 13 mos. to 11	\$3
Age 12+	\$3.50
Nonresident	
Age 1 & Under	FREE
Age 13 mos. to 11	\$3.50
Age 12+	\$4
Season Pass	
Less than 48"	\$45
48"+	\$55
Nonresidnet	
Less than 48"	\$65
48"+	\$75

Hugh Smith Indoor Pool

1815 New York Ave.

Arlington, TX

817-275-0513



The City of Arlington’s year-round indoor municipal pool is ADA accessible and offers swim lessons, aqua exercise classes, and Friday Night Family Nights.

Hugh Smith Indoor Pool	
Amenities	
25-yard Indoor Pool	
1-meter Diving Board	
Fees	
Daily	
Age Under 2	FREE
Age 2 to 11	\$3
Age 12+	\$3.50
Guest	\$6

Section 5: Development Concepts

Option 1 Splash Pad

Option 2 SNFAC

Option 3 NFAC

Option 4 MFAC

Option 5 LFAC

Option 6 Indoor

Option 7 Venue

Section 5: Development Concepts

The consultants developed 7 concepts for the city to consider.

DEVELOPMENT CONCEPT COMPARISON	
<p>Op. of Proj.Cost \$688,000</p> 	<p>Option 1 Splash Pad (Pad) –Interactive water play element with no standing water.</p>
<p>Op. of Proj.Cost \$3,220,000</p> 	<p>Option 2 Small Neighborhood Family Aquatic Center (SNFAC) – Outdoor multi-purpose recreation pool.</p>
<p>Op. of Proj.Cost \$4,540,000</p> 	<p>Option 3 Neighborhood Family Aquatic Center (NFAC) –Outdoor multi-purpose recreation pool with short course competition pool.</p>
<p>Op. of Proj.Cost \$9,000,000</p> 	<p>Option 4 Medium Family Aquatic Center (MFAC) –Outdoor recreation pool and a separate short course competition pool.</p>
<p>Op. of Proj.Cost \$12,490,000</p> 	<p>Option 5 Large Family Aquatic Center (LFAC) – Outdoor recreation pool and a long course competition pool.</p>
<p>Op. of Proj.Cost \$13,960,000</p> 	<p>Option 6 Indoor Aquatic Center (Indoor) – Indoor competition and recreation pool.</p>
<p>Op. of Proj.Cost \$29,820,000</p> 	<p>Option 7 Indoor 50 Meter Competition Pool (Venue) – Indoor 50 meter pool, dive well with platform diving, and an indoor leisure pool.</p>

Option 1

Splash Pad (Pad) –Interactive water play element with no standing water.

\$688,000

Option 1 features a 1,800 square foot splash pad with bright and cheery play elements. These water play elements unpredictably spray water when children pass under them, by them or touch them. Splash pads are engineered to be vandal-resistant, safe, durable, and entertaining—visit after visit. Moreover, splash pads are barrier free and wheelchair accessible and because there is no standing water, lifeguards are not necessary. This lively park enhancement offers families an exciting new way to enjoy a summer day. Filtration includes a UV sanitizer.

Benefits of UV include:

- Effective against all micro-organisms
- Improves water quality with less chloramines
- Reduces chloramines (combined chlorine) to below 0.2 parts per million (ppm)
- Treats total water flow
- Reduces or eliminates need to superchlorinate
- Not hazardous
- Simple and reliable
- Requires no daily maintenance
- Requires minimal space



OPTION 1 CONCEPTUAL REPRESENTATION



NOT TO SCALE

OPINION OF PROJECT COST: PAD			
Description	Unit	Amount	Opinion of Cost
Aquatics		1,800	\$462,000
Splash Pad	Sq. Ft.	1,800	
Interactive Play Features	Allowance	1	
Vault (Grey water/ Filtration)	Quantity	1	
Equipment (Irrigation/Filtration)	Quantity	1	
UV Sanitizer	Quantity	1	
Total Building Construction Costs			462,000
Site Construction Costs (landscaping, utilities, walks)			\$45,000
Demolition			\$0
Subtotal			\$507,000
Inflation (2 year)	10%		\$50,700
Contingency	10%		\$55,770
Indirect Costs	12%		\$73,616
Opinion of Probable Cost			\$687,086
Say			\$688,000
Source: Counsilman-Hunsaker			

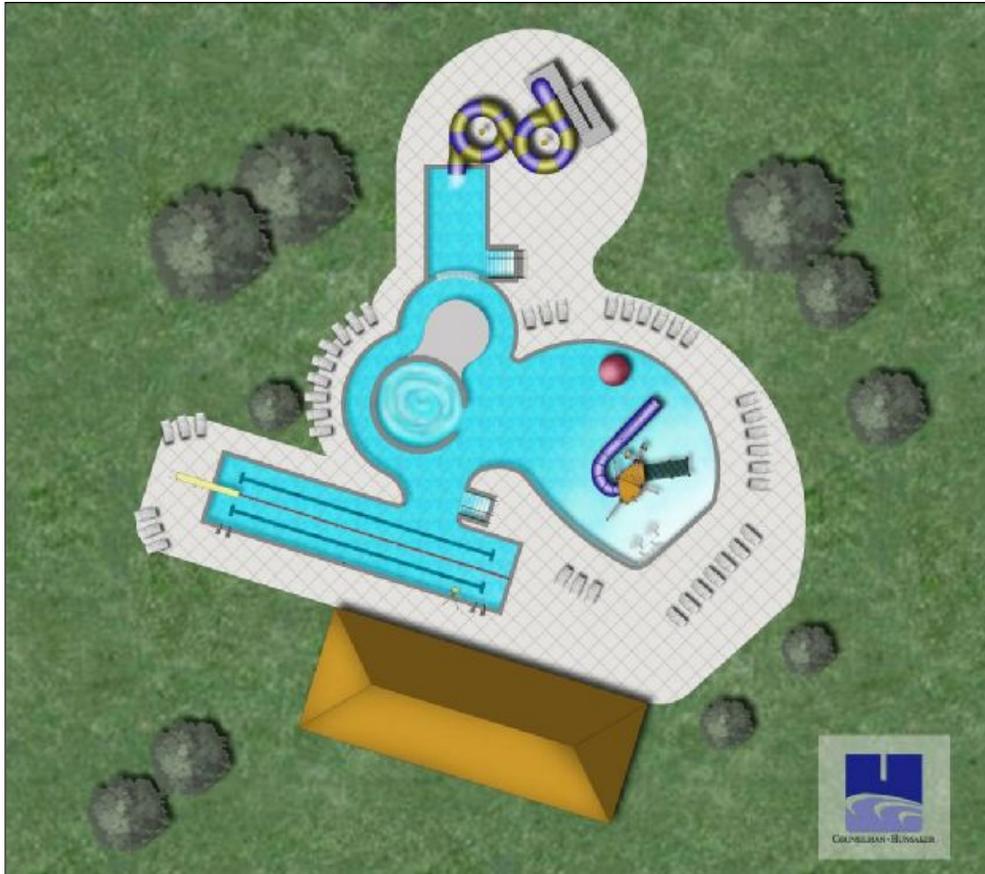
Option 2: Small Neighborhood Family Aquatic Center (SNFAC) – Outdoor multi-purpose recreation pool.

\$3,220,000

Option 2's Small Neighborhood Family Aquatic Center features a 5,100 square foot outdoor multipurpose pool with zero-depth entry, a safe and easy way for everyone to enter the pool without steps or ladders. A waterslide provides thrills and spills for teens and daring adults while a participatory play feature, located near the zero-depth entry, offers activities for children to crawl across tunnels, scamper through spraying water, climb across bridges, and slide down waterslides. A diving board springs into action while an almost silent vortex beckons guests to enter into its swirling waters and enjoy its hydro effects. A current channel provides a serene journey for all ages as well as a great water walking opportunity against the current. Also included are four shade structures, vending machine area, and a bathhouse with a family changing room and locker rooms.



OPTION 2 CONCEPTUAL REPRESENTATION



NOT TO SCALE

OPINION OF PROJECT COST: NFAC			
Description	Unit	Amount	Opinion of Cost
Demolition			Not Included
Bathhouse		2,731	\$476,063
Lobby / Entrance	Sq. Ft.	100	
Managers Office	Sq. Ft.	125	
Guard Room/ First Aid	Sq. Ft.	100	
Pool Mechanical	Sq. Ft.	650	
Building Mechanical	Sq. Ft.	250	
Storage	Sq. Ft.	250	
Locker Rooms	Sq. Ft.	700	
Family Changing Room	Sq. Ft.	100	
Vending	Sq. Ft.	100	
Efficiency	Sq. Ft.	356	
Aquatics		5,100	\$1,316,500
Multipurpose Pool	Sq. Ft.	5,100	
Waterslide (A)	Quantity	1	
Participatory Play Feature	Allowance	1	
Vortex	Add. Cost	1	
Current Channel	Add. Cost	1	
Diving Board	Quantity	1	
Support			\$230,000
Outdoor Deck	Sq. Ft.	6,120	
Fence	Linear Ft.	500	
Overhead Lighting	Sq. Ft.	11,220	
Equipment	Allowance	1	
Shade Structures	Quantity	4	
Total Building Construction Costs			2,022,563
Site Construction Costs (parking lot, landscaping, utilities, walks)			\$348,781
Land Acquisition			Not Included
Subtotal			\$2,371,344
Inflation (2 year)	10.0%		\$237,134
Contingency	10.0%		\$260,848
Indirect Costs	12.0%		\$344,319
Opinion of Project Costs			\$3,213,650
Say			\$3,220,000
Source: Counsilman-Hunsaker			

Option 3

Neighborhood Family Aquatic Center (NFAC) – Outdoor multi-purpose recreation pool with short course competition pool.

\$4,540,000

Option 3's Neighborhood Family Aquatic Center features an 8,457 square foot leisure pool where children can romp in the zero-depth entry and make a big splash on the participatory play feature. This colorful "wet playground" provides climbing opportunities with operating valves, sprays, and slides for hands-on activities. Two waterslides with catch pool offer plunging excitement for children, teens, and adventurous adults. A six lane short course competition pool provides swim events in the summer season and will accommodate water exercise, aerobic classes, swim team training, and many other aquatic lessons. Also included are six shade structures, vending machine area, and a bathhouse with a family changing room and locker rooms.



OPTION 3 CONCEPTUAL REPRESENTATION



NOT TO SCALE

OPINION OF PROJECT COST: NFAC			
Description	Unit	Amount	Opinion of Cost
Demolition			Not Included
Bathhouse		2,904	\$500,438
Lobby / Entrance	Sq. Ft.	100	
Managers Office	Sq. Ft.	125	
Guard Room / First Aid	Sq. Ft.	100	
Pool Mechanical	Sq. Ft.	750	
Building Mechanical	Sq. Ft.	250	
Storage	Sq. Ft.	300	
Locker Rooms	Sq. Ft.	700	
Family Changing Room	Sq. Ft.	100	
Vending	Sq. Ft.	100	
Efficiency	Sq. Ft.	379	
Aquatics		8,457	\$2,011,830
Multipurpose Pool	Sq. Ft.	8,457	
Waterslide (A)	Quantity	1	
Waterslide (B)	Quantity	1	
Participatory Play Feature	Allowance	1	
Support			\$297,355
Outdoor Deck	Sq. Ft.	10,148	
Fence	Linear Ft.	600	
Overhead Lighting	Sq. Ft.	18,605	
Equipment	Allowance	1	
Shade Structures	Quantity	6	

Description	Unit	Amount	Opinion of Cost
Total Building Construction Costs			2,809,623
Site Construction Costs (parking lot, landscaping, utilities, walks)			\$537,729
Land Acquisition			Not Included
Subtotal			\$3,347,351
Inflation (2 year)	10.0%		\$334,735
Contingency	10.0%		\$368,209
Indirect Costs	12.0%		\$486,035
Opinion of Project Costs			\$4,536,340
Say			\$4,540,000
Source: Counsilman-Hunsaker			

Option 4

Medium Family Aquatic Center (MFAC) –Outdoor recreation pool and a separate short course competition pool.

\$9,000,000

Option 4's outdoor Medium Family Aquatic Center features a recreation pool and a separate short course competition pool. The 6-lane 25 yard competition pool with two diving boards provides swim events in the summer season and will accommodate water exercise, aerobic classes, swim team training, diving opportunities, and many other aquatic lessons. A 15,184 square foot leisure pool provides a swimming experience where parents can lounge in the zero-depth entry while keeping a watchful eye on younger children playing on the participatory play feature in the shallow water. Two waterslides and a drop slide offer plunging excitement for teens and adventurous families. An otter slide is child-friendly for those children who are not tall enough to ride the waterslide but too big for the play feature slide. Attached to the leisure pool is the current channel with water traveling at approximately three miles per hour, thus creating a floating adventure or an opportunity for walking against the current as a non-programmed or programmed fitness activity. A 1,550 square foot tot pool with play features and kiddie slide offers Richardson's youngest guests a safe place to enjoy early aquatics. Also included are nine shade structures, a 1,000 square foot pavilion, vending machine area, and a bathhouse with two family changing rooms and locker rooms.



OPTION 4 CONCEPTUAL REPRESENTATION



NOT TO SCALE

OPINION OF PROJECT COST: MFAC			
Description	Unit	Amount	Opinion of Cost
Demolition			\$150,000
Bathroom Renovation		7,665	\$613,180
Lobby	Sq. Ft.	140	
Managers Office	Sq. Ft.	100	
Guard Room / First Aid	Sq. Ft.	125	
Pool Mechanical	Sq. Ft.	2,300	
Building Mechanical	Sq. Ft.	300	
Storage	Sq. Ft.	750	
Locker Rooms	Sq. Ft.	2,600	
Family Changing Room (2)	Sq. Ft.	250	
Vending	Sq. Ft.	100	
Efficiency	Sq. Ft.	1,000	
Aquatics		19,884	\$4,694,380
Leisure Pool	Sq. Ft.	15,184	
Waterslide (A)	Quantity	1	
Waterslide (B)	Quantity	1	
Participatory Play Feature	Allowance	1	
Otter Slide	Quantity	1	
Lily Pad Floatable Walk	Quantity	4	
Current River	Add. Cost	2	
Lap Pool (6 Lane 25 Yard)	Sq. Ft.	3,150	
Drop Slide	Quantity	1	
Springboard Diving	Quantity	2	
Tot Pool	Sq. Ft.	1,550	
Play Features	Allowance	1	
Kiddie Slide	Quantity	1	
Support			\$708,662
Outdoor Deck	Sq. Ft.	29,826	
Fence	Linear Ft.	900	
Overhead Lighting	Sq. Ft.	49,710	
Equipment	Allowance	1	
Pavillion	Sq. Ft.	1,000	
Shade Structures	Quantity	9	

Description	Unit	Amount	Opinion of Cost
Total Building Construction Costs			6,166,222
Site Construction Costs (parking lot, landscaping, utilities, walks)			\$573,748
Subtotal			\$6,739,970
Inflation (2 year)	10.0%		\$673,997
Contingency	10.0%		\$741,397
Indirect Costs	10.0%		\$815,536
Opinion of Project Costs			\$8,970,900
Say			\$9,000,000
Source: Counsilman-Hunsaker			

Option 5

Large Family Aquatic Center (LFAC) – Outdoor recreation pool and a long course competition pool.

\$12,490,000

The trend of mixing elegant pools, adventurous settings, and whimsically playful areas for passive and active swimmers indicates the rise in Large Family Aquatic Centers. Option 5 accommodates the competitive and recreation aquatic needs of the residents of Richardson in a WOW aquatic environment. In addition to being very attractive to recreation swimmers, this option is designed to meet the needs of many organized swimming events with a heated 50-meter championship pool, four diving boards, and a bulkhead to provide swim team training simultaneously with water exercise, aerobic classes, diving opportunities, and other aquatic lessons for the community. The recreation component of this concept consists of a heated 9,800 square foot leisure pool with zero-depth entry for easy access into the water. Two waterslides ensure lifelong memories of plunging into the aquatic paradise as well as a physical challenge of climbing the stairs over and over. A participatory play feature, spray features, lily pad walk, vortex, and current channel offer the amenities of a luxury resort and the thrills and spills of a small waterpark. A 1,000 square foot spray pad provides gentle spray features for little ones. Also included are a 1,000 square foot pavilion, eleven shade structures, vending machine area, and a bathhouse with two family changing rooms and locker rooms.



OPTION 5 CONCEPTUAL REPRESENTATION



NOT TO SCALE

OPINION OF PROJECT COST: LFAC			
Description	Unit	Amount	Opinion of Cost
Demolition			\$0
Bathhouse		12,360	\$2,189,250
Lobby	Sq. Ft.	350	
Managers Office	Sq. Ft.	125	
Recep Office	Sq. Ft.	125	
Guard Room / First Aid	Sq. Ft.	250	
Pool Mechanical	Sq. Ft.	3,500	
Building Mechanical	Sq. Ft.	750	
Storage	Sq. Ft.	1,000	
Locker Rooms	Sq. Ft.	3,750	
Family Changing Room (2)	Sq. Ft.	350	
Vending	Sq. Ft.	100	
Efficiency	Sq. Ft.	2,060	
Seasonal Aquatics		23,459	\$5,168,400
50 Meter Competitive Pool	Sq. Ft.	12,640	
Bulkhead (6' wide)	Quantity	1	
Diving Boards	Quantity	4	
Pool Heater	Quantity	1	
Recreation Pool	Sq. Ft.	9,800	
Waterslide (A)	Quantity	1	
Waterslide (B)	Quantity	1	
Participatory Play Feature	Allowance	1	
Spray Features	Add. Cost	2	
Lily Pad Walk	Quantity	4	
Current Channel	Add. Cost	2	
Vortex	Add. Cost	1	
Pool Heater	Quantity	1	
Spray Pad	Sq. Ft.	1,000	
Spray Features	Allowance	1	
Seasonal Support		51,587	\$571,699
Outdoor Deck	Sq. Ft.	28,128	
Fence	Linear Ft.	908	
Overhead Lighting	Sq. Ft.	51,587	
Pavillion	Sq. Ft.	1,000	
Shade Structures	Quantity	11	

Description	Unit	Amount	Opinion of Cost
Total Building Construction Costs		63,947	7,929,349
Site Construction Costs (parking lot, landscaping, utilities, walks)			\$1,278,940
Furnishings and Equipment	Allowance		\$175,000
Subtotal			\$9,383,289
Inflation (2 year)	10.0%		\$938,329
Contingency	10.0%		\$1,032,162
Indirect Costs	10.0%		\$1,135,378
Opinion of Project Costs			\$12,489,158
Say			\$12,490,000
Source: Counsilman-Hunsaker			

Option 6

Indoor Aquatic Center (Indoor) – Indoor competition and recreation pool.

\$13,960,000

The climate-controlled natatorium offers a haven for competitive swimmers as well as plenty of action for those who wish to swim recreationally. Option 6 features an indoor 25-meter by 25-yard competition pool with two diving boards and 500 balcony seats. This pool is gaining in popularity in the competitive swimming market as it provides both short course lengths for training and meets. Recreation swimmers can laze away the day in the zero-depth entry of the leisure pool or work off energy in the current channel. Three lap lanes offer a vibrant aquatic workout in the beautiful natatorium while a play feature entices little ones to climb, crawl, scamper, and slide. The center provides another big draw at the waterslide, typically a favorite activity among recreation swimmers.



OPTION 6 CONCEPTUAL REPRESENTATION



NOT TO SCALE

OPINION OF PROJECT COST: INDOOR			
Description	Unit	Amount	Opinion of Cost
Demolition			\$0
Public Spaces		5,200	\$1,176,000
Lobby	Sq. Ft.	900	
Control / Cashier	Sq. Ft.	150	
Guard Room / First Aid	Sq. Ft.	150	
Concession / Kitchen Area	Sq. Ft.	400	
Restrooms M/W	Sq. Ft.	500	
Locker Rooms	Sq. Ft.	2,100	
Team Locker Rooms	Sq. Ft.	700	
Family Changing Room (2)	Sq. Ft.	300	
Aquatic Center		24,650	\$6,839,000
25 Meter by 25 Yard Pool	Sq. Ft.	6,200	
Springboard Diving	Quantity	2	
Competitive Natatorium	Sq. Ft.	12,000	
Leisure Pool (3 lanes)	Sq. Ft.	3,400	
Play Feature	Allowance	1	
Current Channel	Add. Cost	1	
Waterslide	Quantity	1	
Leisure Pool Natatorium	Sq. Ft.	8,000	
Balcony Seating (500 seats)	Sq. Ft.	3,000	
Pool Mechanical Room	Sq. Ft.	1,650	
Building Support		2,630	\$480,000
Building Mechanical	Sq. Ft.	1,900	
Electrical	Sq. Ft.	500	
Janitor	Sq. Ft.	50	
Elevator	Sq. Ft.	80	
Elevator Machine	Sq. Ft.	100	
Efficiency		6,496	\$974,400
Circulation and Walls (20%)	Sq. Ft.	6,496	

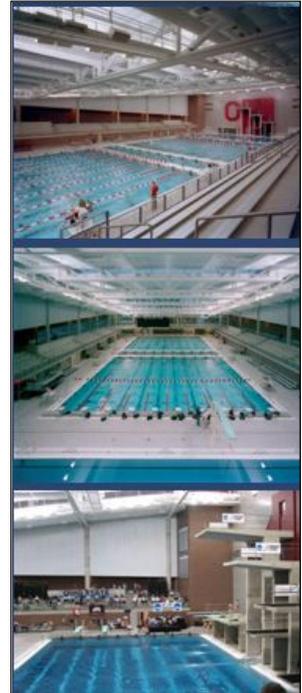
Description	Unit	Amount	Opinion of Cost
Total Building Construction Costs		38,976	9,469,400
Site Construction Costs (landscaping, utilities, walks)			\$779,520
Furniture, Fixtures, Equipment			\$234,000
Subtotal			\$10,482,920
Inflation (2 year)	10.0%		\$1,048,292
Contingency	10.0%		\$1,153,121
Indirect Costs	10.0%		\$1,268,433
Opinion of Probable Cost			\$13,952,767
Say			\$13,960,000
Source: Counsilman-Hunsaker			

Option 7

Indoor 50 Meter Competition Pool (Venue) – Indoor 50 meter pool, dive well with platform diving, and an indoor leisure pool

\$29,820,000

Option 7's natatorium competition venue is designed to meet the needs of year-round major swimming meets as well as year-round programming for aquatics, fitness, and lessons. Features include an indoor 50-meter competition pool with four springboards, one platform dive, and an air sparger system that cushions a diver's entry into the water. The movable floor alters water depth for various purposes while the two movable bulkheads offer the versatility to accommodate other aquatic lessons, fitness, and activities in designated areas of the pool and consequently, revenue potential. The pool features fast water, large decks, and 1,500 balcony seats for spectators to view major long course events. This competition venue may generate revenue to hotels, restaurants, and retail businesses in the area when hosting major events. The indoor leisure pool with its gently sloping entry is designed to celebrate the senses as the outside world melts away. Three fitness lap lanes and a current channel provide water exercise while a play feature and waterslide offer the ultimate in barefoot fun for hours of climbing and sliding water entertainment. Also included is a 3,000 square foot multipurpose room and catering area as well as locker rooms.



OPTION 7 CONCEPTUAL REPRESENTATION



NOT TO SCALE

Description	Unit	Amount	Opinion of Cost
Entrance		1,550	\$276,750
Basic Lobby	Sq. Ft.	800	
Check-in Desk	Sq. Ft.	250	
Store	Sq. Ft.	500	
Office Space		870	\$136,050
Facility Manager	Sq. Ft.	120	
Aquatic Coordinator	Sq. Ft.	100	
Lifeguard/First Aid	Sq. Ft.	150	
Coaches Workspace	Sq. Ft.	200	
Office Storage	Sq. Ft.	300	
Shared Areas		3,700	\$633,000
Multi-Purpose Room	Sq. Ft.	3,000	
Storage	Sq. Ft.	300	
Catering Area	Sq. Ft.	400	
Restroom Areas		4,100	\$984,000
General Locker Rooms (M/W)	Sq. Ft.	2,250	
Family Changing Rooms (2)	Sq. Ft.	150	
Second Floor Restrooms (M/W)	Sq. Ft.	200	
Men's Team Locker Room	Sq. Ft.	750	
Women's Team Locker Room	Sq. Ft.	750	
Competitive Natatorium		42,270	\$12,963,900
50 Meter Pool (172' X 75')	Sq. Ft.	12,900	
Bulkhead	Quantity	2	
Moveable Floor	Quantity	1	
Diving Pool	Sq. Ft.	4,500	
Springboard Diving	Quantity	4	
Sparger	Quantity	1	
Platform Diving	Quantity	1	
Deck Shower Area	Sq. Ft.	50	
Natatorium Enclosure	Sq. Ft.	31,320	
Spectator Seating (1500 seats)	Sq. Ft.	9,000	
Pool Mechanical Room	Sq. Ft.	1,200	
General Pool Storage	Sq. Ft.	750	

Recreation Natatorium		8,300	\$3,020,560
Leisure Pool (3 lanes)	Sq. Ft.	5,800	
Play Feature	Allowance	1	
Current Channel	Add. Cost	1	
Waterslide	Quantity	1	
Leisure Pool Natatorium	Sq. Ft.	8,000	
General Pool Storage	Sq. Ft.	300	
Building Support		2,530	\$466,000
Building Mechanical	Sq. Ft.	1,850	
Electrical	Sq. Ft.	450	
Janitor	Sq. Ft.	50	
Elevator	Sq. Ft.	80	
Elevator Machine	Sq. Ft.	100	
Circulation/Walls		12,664	\$2,152,880
80% efficiency	Sq. Ft.	12,664	
Total Square Footage	Sq. Ft.	75,984	\$20,633,140
Furnishings and Equipment	Allowance		\$456,000
Site Construction Costs	Allowance		\$1,520,000
Subtotal			\$22,609,140
Inflation (2 years)	10%		\$2,260,914
Contingency	10%		\$2,487,005
Indirect Costs	9%		\$2,462,135
Total Estimated Project Costs:			\$29,819,195
Say			\$29,820,000
Source: Counsilman-Hunsaker			

APPENDIX A: REFERENCE

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APPENDIX III

COUNCILMAN-HUNSAKER AQUATICS STUDY

City of Richardson, Texas

Aquatic Master Plan

November 2009



MHS Planning & Design, LLC

Contact: Mark Spencer
212 W. 9th St.
Tyler, TX 75701



COUNSILMAN • HUNSAKER
The Ultimate Aquatic Advantage

Counselman-Hunsaker

Contact: Kevin Post
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Suite 400
St. Louis, MO 63127

Table of Contents

Executive Summary	5
Section 1: Introduction	9
Methodology	9
Project Scope	9
Existing Facilities	9
Comparison Cities	12
Section 2: Population Characteristics	15
Population	16
Mosaic Types	17
Income	20
Age Distribution	22
Section 3: Aquatic Trends	27
Section 4: Area Provider Analysis	39
Aquatic Providers 0-10 Miles	42
Aquatic Providers 10-15 Miles	50
Aquatic Providers 15-20 Miles	64
Aquatic Providers 20-25 Miles	69
Section 5: Development Concepts	85
APPENDIX A: REFERENCE	i

Executive Summary

In 2008, the City of Richardson, Texas, just 13 miles north of Dallas, was ranked the 18th best place to live in the United States by *Money* magazine. This ranked Richardson the 4th best place to live in Texas. In 2009, *Business Week's* annual report on the "Best Places to Raise Kids" ranked Richardson 2nd in Texas. Richardson is one of the densest high-tech areas in the nation, with Telecom Corridor, where Nortel (among other companies) houses its U.S. headquarters. Richardson is also home to four DART rail stations and new luxury condominium, apartment, and town home developments.¹



During its 50 years, the Richardson Parks and Recreation Department has provided families greater quality of life through first class programs that have become a tradition and a source of pride within the community. This is evident by greater real estate values and first class economic development, proving that Richardson is not only a great host to business and industry, but a great place to call home.²

Aquatic recreation offers five existing swimming pools in the city, including Arapaho Pool, Canyon Creek Pool, Cottonwood Pool, Glenville Pool, and Terrace Pool. The purpose of this Aquatic Master Plan is to provide the viability for the design and construction of new aquatic centers in the City of Richardson.

Demographic analysis for the City of Richardson reveals that the population base is projected to increase from 100,500 to 106,300 by 2013. Income analysis for the city is 35% higher than the national average regarding resident per capita income and 52% higher regarding median household income. As a percentage of population, the 0-19 age group is right at the national average. Due to higher percentages of people in age groups 35 to 64, the median age for the city is higher than the national average (37.9 compared to 36.7).³

Aquatic centers have many opportunities to make revenue-producing pools through competitive, recreation, and fitness programming by utilizing a diverse variety of lessons, fitness classes, and special events to increase attendance and revenue. Both water exercise and water therapy programs have grown substantially over the years due to aquatic fitness being less strenuous than land fitness. The sustained popularity of teaching the community to swim has led to significant numbers of swim team and Masters swimmers nationwide. Swim meets and championships can bring in a large number of swimmers to the area, plus their families, coaches, and officials. Additionally, water polo tournaments, synchronized swimming, and diving meets are also possible. Marketing user groups will be imperative to the success of the facility.

Aquatic Tool Box

The consultants developed seven concepts for the City of Richardson to consider.

DEVELOPMENT CONCEPT COMPARISON	
<p>Op. of Proj.Cost \$688,000</p> 	<p>Option 1 Splash Pad (Pad) –Interactive water play element with no standing water.</p>
<p>Op. of Proj.Cost \$3,220,000</p> 	<p>Option 2 Small Neighborhood Family Aquatic Center (SNFAC) – Outdoor multi-purpose recreation pool.</p>
<p>Op. of Proj.Cost \$4,540,000</p> 	<p>Option 3 Neighborhood Family Aquatic Center (NFAC) –Outdoor multi-purpose recreation pool with short course competition pool.</p>
<p>Op. of Proj.Cost \$9,000,000</p> 	<p>Option 4 Medium Family Aquatic Center (MFAC) –Outdoor recreation pool and a separate short course competition pool.</p>
<p>Op. of Proj.Cost \$12,490,000</p> 	<p>Option 5 Large Family Aquatic Center (LFAC) – Outdoor recreation pool and a long course competition pool.</p>
<p>Op. of Proj.Cost \$13,960,000</p> 	<p>Option 6 Indoor Aquatic Center (Indoor) – Indoor competition and recreation pool.</p>
<p>Op. of Proj.Cost \$29,820,000</p> 	<p>Option 7 Indoor 50 Meter Competition Pool (Venue) – Indoor 50 meter pool, dive well with platform diving, and an indoor leisure pool.</p>

Section 1: Introduction

Methodology
Project Scope
Existing Facilities

Section 1: Introduction

The City of Richardson retained MHS Planning & Design LLC, and Counsilman-Hunsaker to provide aquatic facility options and master planning strategies that would help the city make an educated decision before moving forward with the construction and operation of new aquatic centers.

Methodology

The plan is based on extensive research through the following processes:

- Met with representatives of the City of Richardson.
- Toured the site and region.
- Investigated area aquatic providers to understand the amenities, programs, and fees of those facilities.
- Identified potential user groups through demographics of the market area.
- Reviewed national trends in recreation, fitness, therapy, and aquatics to determine amenities and programs.

Project Scope

The scope of the project is to:

- Recommend aquatic facilities that will meet current and future community needs for health and safety.
- Make projections regarding project costs.
- Determine a master plan.

Existing Facilities

1. Arapaho Pool
711 W. Arapaho Rd.
Richardson, TX

Richardson Pool Data 2009						
Pool	Patron Capacity	Days Open	Water Capacity	Income	Direct Expenses	% of Cost recovery
Arapaho	400	91	309,000	\$79,579	\$148,560	53%

2. Canyon Creek Pool
600 Aspenwood Dr.
Richardson, TX

Richardson Pool Data 2009						
Pool	Patron Capacity	Days Open	Water Capacity	Income	Direct Expenses	% of Cost recovery
Canyon Creek	180	76	159,000	\$44,179	\$123,800	36%

3. Cottonwood Pool
1321 W. Belt Line Rd.
Richardson, TX

Richardson Pool Data 2009						
Pool	Patron Capacity	Days Open	Water Capacity	Income	Direct Expenses	% of Cost recovery
Cottonwood	235	76	194,000	\$19,925	\$111,420	18%

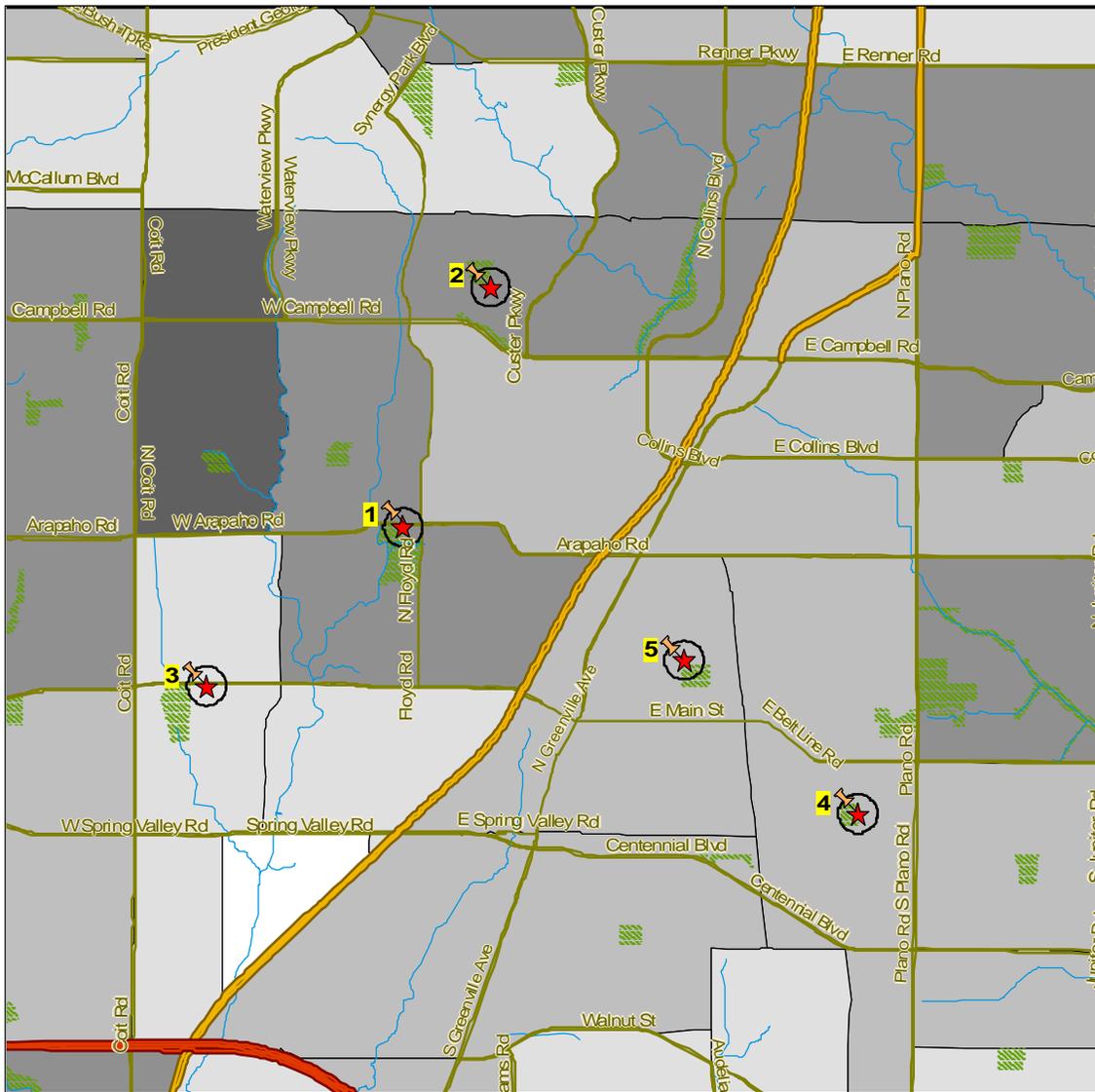
4. Glenville Pool
 500 S. Glenville Dr.
 Richardson, TX

Richardson Pool Data 2009						
Pool	Patron Capacity	Days Open	Water Capacity	Income	Direct Expenses	% of Cost recovery
Glenville	188	76	163,000	\$35,647	\$117,610	30%

5. Terrace Pool
 300 N. Lois Lane
 Richardson, Tx

Richardson Pool Data 2009						
Pool	Patron Capacity	Days Open	Water Capacity	Income	Direct Expenses	% of Cost recovery
Terrace	120	76	57,000	\$27,983	\$123,800	23%

Map of City of Richardson, TX, Existing Aquatic Facilities



Source: Demographics Now

Comparison Cities

In 1990, the National Recreation and Parks Association published a recommendation for the number of public pools needed in any U.S. community based on population alone: one pool for every 20,000 residents.⁴ Although this never became the national standard due to variables such as other providers, income, different types of pools, and desired programming by various age groups, the following chart shows the number of public pools from various cities with populations between 100,000 and 150,000. From this research it was found that, on average, these cities have approximately four municipal pools serving 56,612 residents per pool. In analyzing a comparison to these cities, the City of Richardson has five municipal pools serving 20,100 residents per pool.

POOLS BY POPULATION			
City	Population	Municipal Pools	Residents per Pool
Eugene, OR	145,981	3	48,660
Hampton, VA	145,646	7	20,807
Torrance, CA	145,516	1	145,516
Evansville, IN	121,582	9	13,509
McKinney, TX	115,600	3	38,533
Independence, MO	109,159	1	109,159
Richardson, TX	100,500	5	20,100
AVERAGE	126,283	4	56,612

Source: Counsilman-Hunsaker

Section 2: Population Characteristics

Population

Income

Age Distribution

Population

The following table presents a summary of market area population with distance rings surrounding the center of the city. The 2000 Census was used to estimate the population for 2008 and projections for 2013. The population base for the city is projected to increase from 100,500 to 106,300 by 2013. Distance rings analyzed according to radii surrounding 25-miles of the city are projected to increase in population as well.³

MARKET AREA POPULATION BY DISTANCE										
Radius	Population						Average Annual Change			
	2000		2008		2013		2000-2008		2008-2013	
	Number (000's)	Percent of Total	Number (000's)	Percent of Total	Number (000's)	Percent of Total	Number (000's)	Percent	Number (000's)	Percent
0 to 3 Miles	114.4	3.7%	119.6	3.2%	122.7	3.0%	0.6	0.6%	0.6	0.5%
3 to 5 Miles	225.7	7.3%	236.0	6.4%	248.6	6.1%	1.3	0.6%	2.5	1.0%
5 to 10 Miles	829.6	26.8%	922.5	24.9%	994.3	24.4%	11.6	1.3%	14.4	1.5%
Subtotal	1,169.7	37.8%	1,278.1	34.5%	1,365.7	33.5%	13.6	1.1%	17.5	1.3%
10 to 15 Miles	692.5	22.4%	895.2	24.2%	1,010.7	24.8%	25.3	3.3%	23.1	2.5%
15 to 25 Miles	1,229.4	39.8%	1,528.6	41.3%	1,699.2	41.7%	37.4	2.8%	34.1	2.1%
Subtotal	1,921.9	62.2%	2,423.8	65.5%	2,709.8	66.5%	62.7	2.9%	57.2	2.3%
Total (0-25 Miles)	3,091.6	100.0%	3,702.0	100.0%	4,075.5	100.0%	76.3	2.3%	74.7	1.9%
Richardson, TX	91.7		100.5		106.3		1.1	1.2%	1.2	1.1%

Source: Demographics Now

Mosaic Types

Of the population in Richardson, 21.5% participate in swimming. This is well above the national average of 18.5%.³ The adjacent table and following definitions describe lifestyle classifications of Richardson residents as compared to the U.S. national averages.³

MOSAIC TYPES		
	Richardson, TX	U.S.
Affluent Suburbia	33%	13%
Upscale America	18%	11%
Small Town Contentment	10%	11%
Metro Fringe	9%	11%
American Diversity	7%	10%
Rural Villages & Farms	1%	10%
Aspiring Contemporaries	13%	9%
Struggling Societies	4%	7%
Urban Essence	5%	6%
Blue-Collar Backbone	1%	6%
Remote America	0%	6%
Varying Lifestyles	0%	1%
	100%	100%

Source: Demographics Now

Affluent Suburbia (33%) represents the wealthiest households in the nation, outranking all other Mosaic Types in terms of household income, home value, and educational achievement. Concentrated in exclusive suburban neighborhoods, these households are predominantly college educated, typically working in managerial and executive positions with six-figure-plus incomes. They enjoy fashionable homes and belong to country clubs, travel abroad, and go sailing, golfing, and skiing. Many are culture buffs who attend the theater, art shows, dance performances, and concerts.

Upscale America (18%) is comprised of college educated executives and white-collar professionals living in metropolitan sprawl, earning upscale incomes. They enjoy large homes and very active lifestyles. Recreation pursuits include jogging, biking, and swimming. They are active in community affairs, business clubs, environmental groups, and art associations.

Small-Town Contentment (10%) represents middle-aged and upper middle-class families living in satellite towns and cities. With a split between college degrees and moderate education, they are employed in well-paying white-collar, blue-collar, administrative, and service professions. While living right outside major metros, these households live in nice homes and enjoy tennis, swimming, hiking, and camping. They commute to nearby cities to enjoy sporting events, nightclubs, and upscale malls.

Metro Fringe (9%) is a collection of racially mixed, lower-middle-class located primarily in satellite cities. Many of the group's households consist of young singles and couples who work at blue-collar and service industry jobs. They tend to live in older single-family homes, semidetached houses, and low-rise apartments. Overall, this group is relatively active in soccer and softball, rollerblading and skateboarding, go-carting and video gaming.

American Diversity (7%) is a contrasting ethnic mix of middle-aged couples, singles, and retirees. With a few exceptions, this Mosaic Type consists of households with average educations and middle-class incomes from blue-collar and service industry jobs. Many are older Americans who have already exited the workplace. They tend to have unassuming lifestyles, read books and newspapers, go to movies and plays, and socialize through fraternal orders and veterans clubs.

Rural Villages and Farms (1%) represent America's agricultural and mining communities, filled with middle-class families and couples of varied ages. Most of these households are married and high school educated. They maintain tranquil lifestyles in unpretentious houses and comfortable mobile homes. They share a fondness for fishing, hunting, camping, motor sports, and attending country-western concerts. Many residents are do-it-yourselfers and enjoy woodworking and needlework.

Aspiring Contemporaries (13%) are filled with upward strivers. These households tend to be young Generation Xers between 18 and 34 years old, ethnically diverse (about 40 percent are minorities) and unattached (about two-thirds are single or divorced). Yet despite traditional barriers to affluence,

members of these metropolitan types are already solidly middle class. Many live in relatively new homes or apartments valued at more than the national average—a reliable sign of upward mobility. They are culture buffs who like to see plays, movies, comics, and live bands.

Struggling Societies (4%) symbolize the disadvantaged and uneducated. With incomes half the national average and nearly a third never completing high school, they are consigned to low-level jobs in manufacturing, health care, and food services. Many of these residents are young minorities, students and single parents trying to raise families on low incomes and tight budgets. Without much discretionary income, their activities are limited and recreation pursuits include playing basketball; volleyball; skateboarding; and listening to Spanish, Mexican, and urban contemporary music.

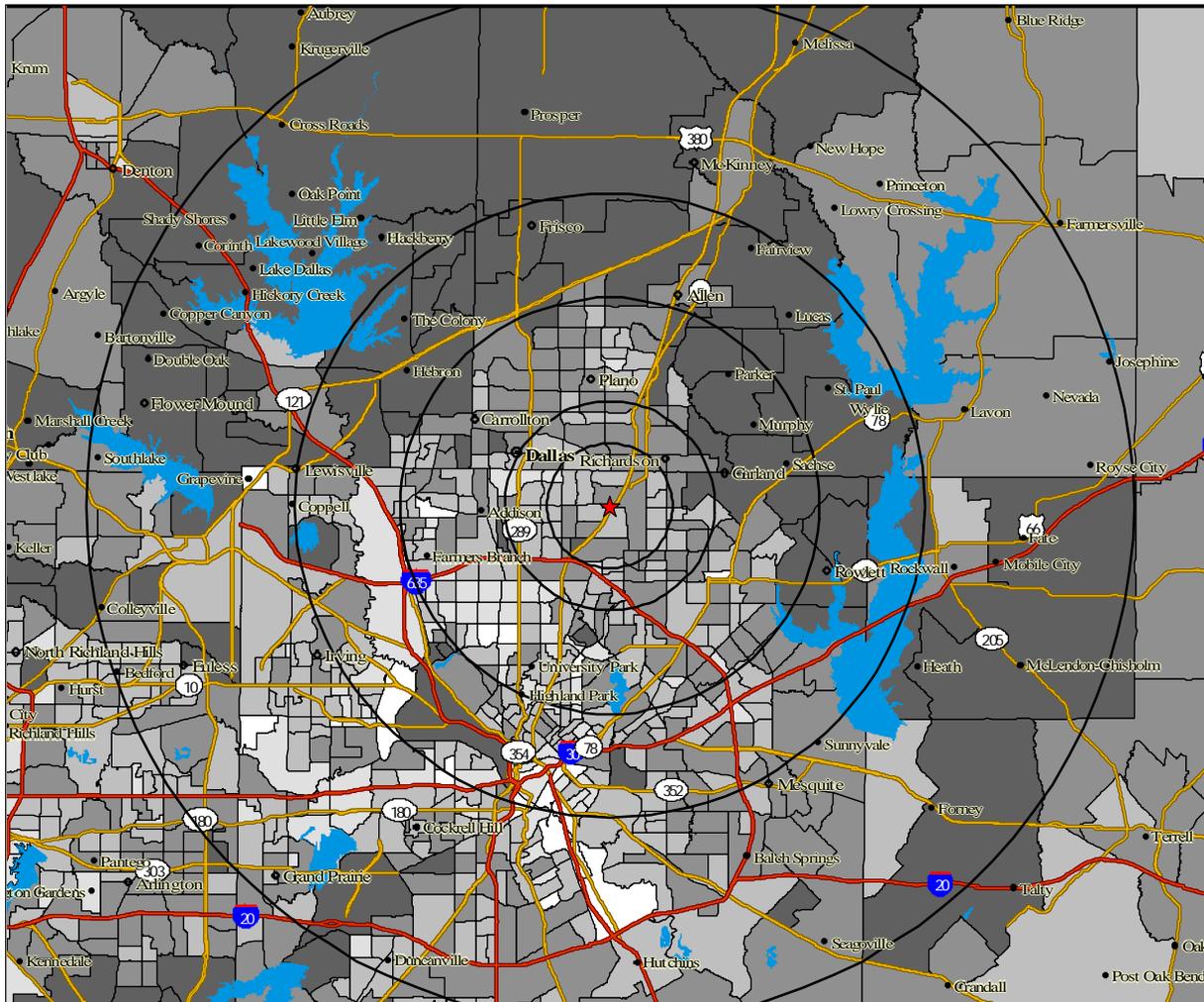
Urban Essence (5%) makes up the nation's least affluent group, a collection of relatively young minorities living in older apartments. More than half the households consist of African-Americans and Hispanics. Many are single or single parents working at entry-level jobs in service industries. With their low education levels and household incomes, residents lead unpretentious lifestyles. Many with above-average households spend their leisure time playing baseball, basketball, football, and listening to jazz and urban contemporary music.

Blue-Collar Backbone (1%) includes above-average proportions of both old and young residents, families and singles, homeowners and apartment renters. Most residents live in older outlying towns and cities, and work at blue-collar jobs in manufacturing, construction, and retail trades. Their lifestyle reflects a working-class sensibility. With relatively few entertainment options, due to their remote location or lack of discretionary income, their most popular recreation activities include team sports, fishing, and veterans clubs.

Remote America (0%) reflects heartland lifestyles, a mix of farming and small industrial communities mostly located in the nation's midsection. Working-class couples and families in this group tend to be employed in agriculture and blue-collar jobs that pay modest wages. The median home value is about half the national average, and a significant number of residents live in mobile homes. No group has a lower population density, and few have higher rates for outdoor-oriented lifestyles. Households spend their leisure time fishing, hunting, hiking, and horseback riding.

Varying Lifestyles (0%) live in group quarters such as the military and university dorm life. Those who have the ability are more likely than average Americans to visit museums, zoos, and state fairs. They like to stay active in aerobic exercise, hiking, bowling, tennis, baseball, and volleyball. They are frequent travelers who vacation abroad as well as within the United States.

Map of Population: Richardson (2009)



Source: Demographics Now

Key:

	Census Tracts
	Above 9700
	5400 to 9700
	3000 to 5400
	1650 to 3000
	Below 1650
	No Data

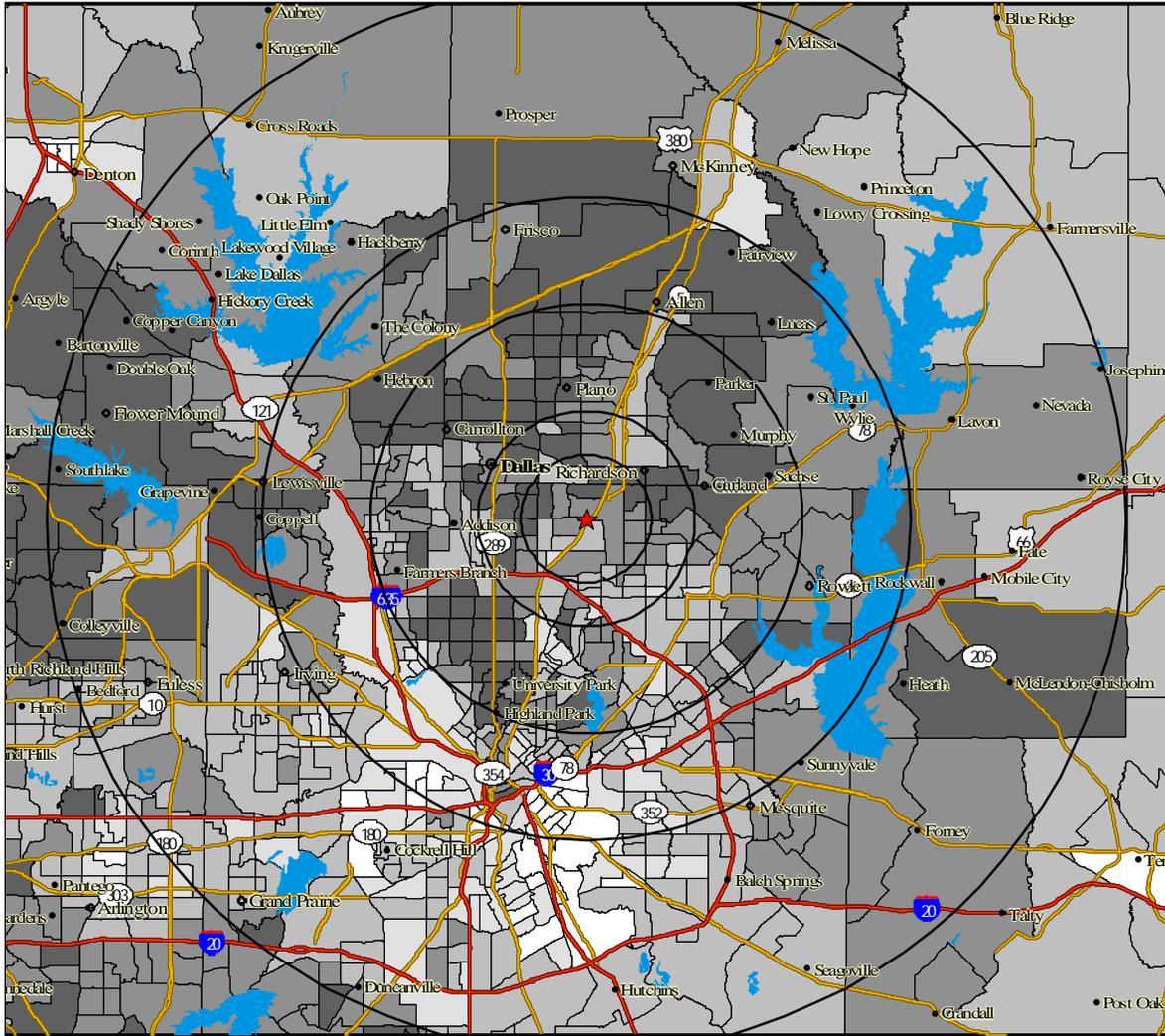
Income

To a certain degree, the likelihood of residents to use city recreation facilities depends on their ability to pay admission and program fees. In the following table, the U.S. national average is set at 1.00. Index refers to the percentage higher or lower than the national average. Income analysis for the City of Richardson is 35% higher than the national average regarding resident per capita income and 52% higher regarding median household income. Median household income per distance rings surrounding 25-miles of the city are above the national average.³

MARKET AREA INCOME				
Radius	Per Capita Incomes		Median Household Incomes	
	Dollars	Index	Dollars	Index
0 to 3 Miles	\$30,769	1.16	\$67,169	1.28
3 to 5 Miles	\$34,306	1.30	\$63,812	1.21
5 to 10 Miles	\$38,370	1.45	\$71,533	1.36
10 to 15 Miles	\$34,796	1.31	\$69,559	1.32
15 to 25 Miles	\$30,379	1.15	\$64,962	1.24
Richardson, TX	\$35,664	1.35	\$79,836	1.52
Total U.S.	\$26,464	1.00	\$52,599	1.00

Source: Demographics Now

Map of Median Household Income: Richardson (2009)



Source: Demographics Now

Key:

	Census Tracts
	Above 97000
	62000 to 97000
	40000 to 62000
	25500 to 40000
	Below 25500
	No Data

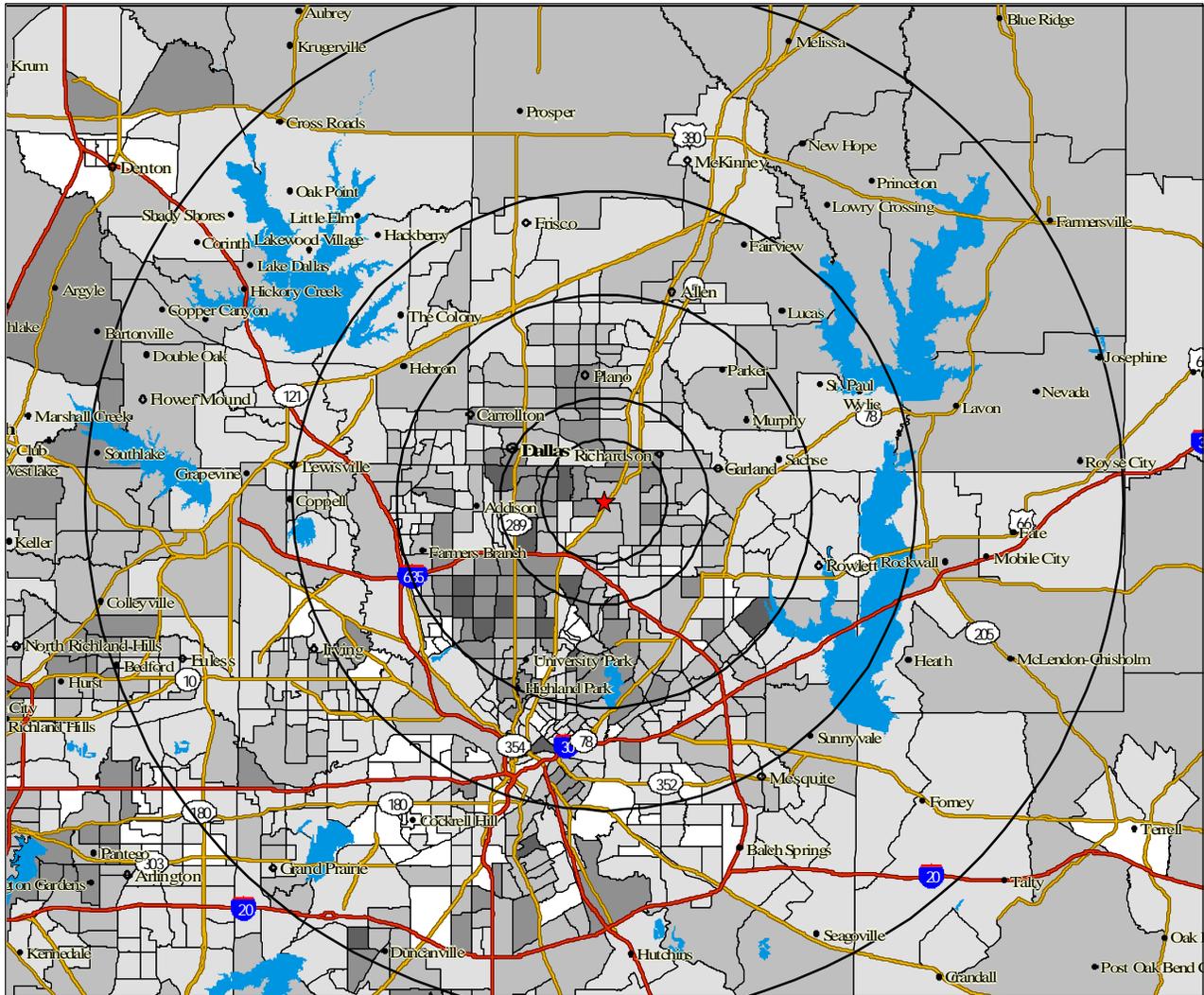
Age Distribution

Age distribution is another population characteristic used to determine the type and level of use of any type of program. While younger age groups are more likely to engage in competitive and recreational activities, middle-aged and older patrons enjoy wellness and fitness programming. The following table provides the number of residents and the percentage of total population for each age group compared to the U.S. column, which identifies the national average. The 0-19 age group, as a percentage of population, is right at the national average in the City of Richardson (27.1%). The median age for the city is higher than the national average (37.9 compared to 36.7) due to higher percentages of people in age groups 35 to 64.³

MARKET AREA AGE DISTRIBUTION													
Age Groups	0-3 Miles		3-5 Miles		5-10 Miles		10-15 Miles		15-25 Miles		Richardson, TX		Total U.S.
	#	%	#	%	#	%	#	%	#	%	#	%	
Under 5	8,677	7.3%	17,107	7.2%	71,496	7.7%	78,303	8.7%	132,719	8.6%	6,877	6.8%	6.8%
5 to 9	8,421	7.0%	15,690	6.6%	67,219	7.3%	73,387	8.2%	128,702	8.3%	6,909	6.9%	6.6%
10 to 14	8,374	7.0%	14,043	5.9%	62,205	6.7%	65,465	7.3%	120,301	7.8%	6,996	7.0%	6.7%
15 to 19	7,863	6.6%	14,363	6.1%	56,935	6.2%	60,606	6.8%	111,631	7.2%	6,412	6.4%	7.0%
Subtotal	33,335	27.9%	61,203	25.9%	257,855	28.0%	277,761	31.0%	493,353	31.8%	27,194	27.1%	27.1%
20 to 24	7,725	6.5%	17,256	7.3%	57,310	6.2%	57,775	6.5%	100,166	6.5%	5,904	5.9%	7.0%
25 to 34	15,962	13.3%	37,360	15.8%	143,261	15.5%	153,330	17.1%	223,467	14.4%	12,718	12.7%	13.3%
35 to 44	18,251	15.3%	36,523	15.5%	155,865	16.9%	154,078	17.2%	240,792	15.5%	16,095	16.0%	14.0%
45 to 54	17,635	14.7%	36,069	15.3%	137,192	14.9%	118,754	13.3%	212,331	13.7%	15,735	15.7%	14.5%
55 to 64	13,854	11.6%	26,195	11.1%	87,973	9.5%	72,552	8.1%	142,112	9.2%	12,011	11.9%	11.2%
65 to 74	7,844	6.6%	12,865	5.5%	46,049	5.0%	36,023	4.0%	71,045	4.6%	6,646	6.6%	6.7%
75 to 84	3,636	3.0%	5,973	2.5%	26,160	2.8%	17,327	1.9%	55,321	3.6%	3,052	3.0%	4.3%
85 and over	1,329	1.1%	2,608	1.1%	10,890	1.2%	7,647	0.9%	12,650	0.8%	1,157	1.2%	1.9%
TOTAL:	119,571	100.0%	236,052	100.0%	922,555	100.0%	895,247	100.0%	1,551,237	100.0%	100,512	100.0%	100%
Median Age	36.6		35.9		35.4		34.1		33.6		37.9		36.7

Source: DemographicsNow

Map of Median Age: Richardson (2009)



Source: Demographics Now

Key:

	Census Tracts
	Above 48
	41.5 to 48
	35 to 41.5
	28.5 to 35
	Below 28.5
	No Data

Section 3: Aquatic Trends

Lessons & Fitness User Groups

Aquatic Therapy User Groups

Recreation User Groups

Competitive User Groups

Section 3: Aquatic Trends

When developing tomorrow's vision for aquatic programming, it is important to understand traditional uses and trends in aquatic programs. Trends evolve in the aquatic industry as swimming expectations evolve. Multi-generational facilities provide bodies of water for lessons and fitness, wellness needs, competitive needs, and family recreation needs with separate spaces for different age groups. The old theory of building a rectangular pool and expecting everyone to jump in is unrealistic for tiny tots, families, accessibility populations, and seniors. Often, multiple bodies of water are necessary to accommodate greater representation from the entire community.

While national surveys continually rank swimming as a favorite recreational sport, today's aquatic centers incorporate recreation swimming and wellness pools to augment revenue of competitive swimming, thereby creating multi-generational facilities through shared expenses. Contemporary aquatic centers are fully ADA accessible⁵ where everyone can benefit from aquatic activities. As more athletes cross train with water fitness components and more doctors recommend water rehabilitation for injured, obese, diabetic, and aging patients, multi-generational aquatic centers are inclusive of the entire community.

Site Selection

Generally, the market area for a municipal aquatic center is a 25-mile radius. Market penetration for attendance tends to drop off for every five miles of distance surrounding the facility. Guests are more likely to patronize businesses close to home, frequent a facility that is easy to find, and typically stay longer according to the number of attractions, while the length of stay correlates with per capita spending. Depending on the final site chosen, existing topography, trees, utilities, and proximity to roadways will dramatically impact the use of the site and in some cases will limit the amount of future development. Site priority should be given to sites that offer:

- Physical accessibility with an emphasis on proximity to public transportation, crosswalks, and major streets.
- Visibility such that a civic presence can be achieved.
- Land use compatibility with adjacent property and good relationships with other aquatic providers.
- Adequate size to support the intended program.
- Few development limitations.
- City ownership or site control that can be achieved easily and at a low cost
- Room for expansion.

Schedules and Fees

Ultimately, aquatic centers depend on repeat business to survive. An affordable experience, both in terms of admission and spending, depends on what the market will bear. The top rate is the general admission rate, which is usually charged to adults over 18. In addition to the general admission rate, there are a number of discounted rates, including youth and senior general admission rates, group rates, promotional rates, and season passes for individuals and families. In order to analyze revenue, the following chart is a typical industry evaluation of daily admissions, season pass memberships, and concession percentages.

General Admission	70%
Season Passes	25%
Food & Beverage	5%
Total	100%

Lessons and Fitness User Groups

The following describes national trends for four aquatic user groups: lessons and fitness, aquatic therapy, recreation swimmers, and competitive swimmers. The descriptions make evident the very different requirements for each of these aquatic user groups when planning and designing an aquatic facility.

Swim Lessons

According to the Centers for Disease Control, more than one in four fatal drowning victims are 14 years and younger. For every child who dies from drowning, another four receive emergency department care for nonfatal submersion injuries. Nonfatal submersions can cause brain damage that may result in long-term disabilities, including memory problems, learning disabilities, and permanent loss of basic functioning.⁶

Knowing how to avoid drowning is essential for children and adults, whether living in areas with natural bodies of water or simply being invited to pool parties. With more than one available pool in an aquatic center, lessons can be maximized where a large number of residents can be taught to swim. Ideally, water depth for instruction should accommodate young participants to stand comfortably in the water. Recreation pools easily provide this preference. Deeper competition pools offer moveable floors or other means of altering water depth for instructional purposes.



A well-run water lesson program is essential in introducing young swimmers to safe aquatic skills that can be used throughout their lives. By offering the community a comfortable, controlled aquatic environment, swimming and diving lessons can become an enjoyable learning experience. There are many different types of water safety lessons that can teach children not only how to swim and dive but how to survive in adverse water conditions. From small water craft instruction to drown-proofing, water safety is an integral part of any community. Many will go on to formal competitive aquatic programs in school or age-group swimming programs. Some will excel to become state champions. Benefits such as scholarship offers may occur when a swimmer or diver selects a college, which could lead to national level competition.

Drown-Proofing

The U.S. Consumer Product Safety Commission is aware of 74 cases of body entrapments, including 13 confirmed deaths between January 1990 and August 2004. The deaths were the result of drowning after the body or limb was held against the drain by the suction of the circulation pump. The incidents occurred in both residential and public settings.⁷

Subsequently, a new federal pool and spa safety law was signed by former President George W. Bush on December 19, 2007. The Virginia Graeme Baker Pool and Spa Safety Act requires all public pools and spas to have safety drain covers, and in certain circumstances, an anti-entrapment system.⁸ The goal of the law is to improve the safety of all pools and spas by increasing the use of layers of protection and promoting uninterrupted supervision to prevent child entrapments and drownings.

With many different programs to teach proper drown-proofing, some classes mimic the natural environment through instructor creativity (i.e., creating wave action with hands and arms to mimic river tides), while others simply require small children to memorize what they would do in a situation where



drowning is likely, and then enact memorized skills with an instructor present. Knowing how to avoid drowning is essential for children and adults, and even more so when living in areas where natural water bodies are prevalent.

Lifeguarding and CPR

Water rescue skills and CPR are typically taught to all lifeguards. However, teaching water rescue and CPR skills are integral to the community, as families are the true lifeguards of one another, whether at the beach or a backyard pool. Often, such courses are sponsored by the Red Cross, Ellis and Associates, and other providers of safety training.



Water Craft Instruction

Water crafts may capsize or experience mechanical difficulties. Drowning can occur when non-swimmers are aboard a craft that experiences difficulties of a mechanical or climatological nature. Though most aquatic centers, because of size constraints, cannot offer small water craft instruction, 50-meter pools can provide an excellent means to teach water safety skills in the event of an emergency.



School District Lesson Users

School districts are often valuable contributors to help efficiently program aquatic facilities. Potential programming might embrace swim lessons for elementary students, lifeguarding classes, physical education classes, therapy for high school athletes, and other joint partnership agreements to aid in directing area children to learn to swim. Aquatic sports (diving, water polo, synchronized swimming, underwater hockey, etc.) can contribute to the overall use of the facility as well as fitness use by faculty, special education therapy, and recreation. In addition, an aquatic facility may provide aquatic opportunities to pre-school children cared for by private daycare providers.



Aquatic Fitness

The more often the pool can be utilized for group activities for participants and spectators, the more likely the aquatic facility will be “alive” day in and day out. The types of activities that tend to draw a crowd are participatory, measurable, exciting, and often challenging – but not always so challenging that only the elite can participate. Activities can be tailored to different ages, sizes, and/or skill levels.



The industry has responded to the continued popularity of aquatic fitness by creating a wide range of activities with related devices and equipment for a greater diversity of water-based aqua exercise options. Aerobic dancing, walking, and running in shallow and deep-water environments, including current channels for walking against the current, are just a few of the choices available to people wishing to add less stressful elements of a cross-training regimen or even to use aqua aerobics for their entire fitness program. Additionally, businesses might sponsor or subsidize aquatic fitness as part of their employee wellness training discipline.

Aquatic fitness also remains one of the most popular forms of exercise among senior adults. Data taken from the National Center for Health Statistics shows lifetime expectancy is up 30 years since 1900.⁹ The older adult market spans four generations from the Progressive Era 1900-1928, Depression Era 1929-1939, WWII Era 1940-1945, and Baby Boomers 1946-1958. Gray power can be a large, affluent market willing to participate in water fitness, wellness programming, and other recreation opportunities. This diverse age group from 55 to 90+ includes sub-groups of which some are still working, some have children in college, and some are focusing on retirement, grandkids, and health. Consequently, seniors can be willing, enthusiastic participants if certain requirements are met. They typically feel uncomfortable in an environment with teens and generally respond better to strictly defined programming of well-structured activities such as water aerobics, arthritis water fitness, water walking, physical therapy, adult swim lessons, ‘Save a Life’ workshops, lap swimming, and Masters Swimming.

LIFETIME EXPECTANCY	
Year	Both Sexes
1900	47.3
1950	68.2
1960	69.7
1970	70.8
1980	73.7
1990	75.4
2000	77.0
2005	77.8

Source: National Ctr. For Health Statistics

Water Fitness Trends

Aquatic programming accommodates beginner lessons that graduate to higher levels of intensity and skill. The following provides a snapshot of popular aquatic fitness programs.

Walking and Jogging in Shallow and Deep Water: The current channel, attached to the leisure pool, provides water traveling at approximately three miles per hour, thus creating an opportunity for walking against the current as a non-programmed or programmed fitness activity. According to waterart.org, “30 minutes of walking and jogging in shallow and deep water is equal to 80 minutes of jogging on land.”

Water Aerobics: Remaining one of the fastest growing segments of the adult fitness industry, water aerobic workouts usually combine a variety of land aerobic techniques, including walking or running backwards and forwards, jumping jacks, mimicking cross-country skiing, and various arm movements. The workout may also incorporate equipment such as flotation devices and foam water weights.

Deep Water Aerobics: This type of water aerobics offers a muscular endurance workout in deep water that consists of simulated running in the deep end of the pool aided by a flotation device (vest or belt) where the participant is held in one location by a tether cord, essentially running in place.

Finning: This active swimming program requires training fins or flippers and utilizes fitness lap lanes of a pool. The kicking and pulling enhances conditioning and toning.

Liquid Gym: This aqua training workout can be as intense as desired with a personal trainer for the purpose of improved athletic performance.

Navy Seals: This aquatic class consists of Finning, water jogging, deep water aerobics, and scuba instruction.

Water Yoga: Warm water, as in a therapy pool, enhances asanas (stretching poses) to relax muscles and increase range of motion and balance. Pan flute music and dim lights deepen the experience. (yogaafloat.com)

Boot Camp: This amphibious program incorporates land and water fitness in a fast paced military-style interval training course with running in the pool, calisthenics, jumping jacks, pushups, and football-style drills.

Scuba and Snorkeling: These lessons are growing in popularity (possibly due to the increase of environmental professions) and typically start in swimming pools.

Scuba Rangers: Scuba and snorkeling skills are taught to kids 8 to 12 while using underwater flashlights, navigation compasses, and underwater photography.

Underwater Hockey: According to USOA Underwater Hockey, “The pool should be 25-meters by 15-meters and two-meters deep all the way across, but anything will do, even slopes (just change ends at half-time). Lead weights and three meters of rope can be used as goals, though the sound of the puck thunking into the back of a metal goal is very satisfying and should be experienced.”

Water Polo: Dimensions of a water polo pool are not fixed and can vary between 20 by 10 and 30 by 20 meters. Minimum water depth must be at least six feet. The goals are three meters wide and 90 centimeters high.

Kayak Polo: This sport involves water polo being played from kayaks. According to Carolina Kayak Polo, “It is difficult to describe the passion and excitement that is created when a kayak water polo game is in progress. The participants—speeding the length of the pool weaving through the opponent’s lines of defense and spinning in their kayaks to receive a pass—create a fast and thrilling event.”

Water Basketball: Ideated in 1986 by Italian teacher, Francesco Rizzuto, this sport is a mixture of basketball and water polo. When designing a pool, full court water basketball is more challenging when tile lines are encrypted into the floor of the pool.

Water Volleyball: Portable and floatable aqua water volleyball sets come complete with two net positions, two anchor bags, and a staked floating perimeter boundary.

Triathlons: These athletic competitions in which the contestants compete in three different events to find the best all-around athlete, typically consist of swimming, cycling, and running.

Kayak and Canoe Clubs: Due to the popularity of Extreme Sports, these clubs are growing in popularity.

Swim lessons, lap swimming, water jogging, deep-water aerobics, life saving instruction, diving lessons, survival swimming, synchronized swimming, water polo, underwater hockey, and scuba instruction can take place in a competitive/lesson/training pool, which frees up the recreation pool for swimmers who want to use the play features. Fitness classes are usually offered in the morning, at lunchtime, and in the early evening. Instructor information and/or training can be acquired through organizations such as the Arthritis Foundation; Red Cross; Aquatic Exercise Association; American Alliance for Health, Physical Education, Recreation and Dance (AAHPERD); and United States Water Fitness.

Aquatic Therapy User Groups

Aquatic therapy is rehabilitation performed in warm water and involves physical activity of exercise and motion in the presence of an aquatic therapist, also called an aquatic therapy provider. Warm water may increase the dynamics of blood pressure and blood and lymph circulation as well as decreasing swelling in skin and other tissues. Participation in an aquatic therapy program offers improvement in:

- Overall health and fitness
- Stretching capacity
- Range of motion
- Movement capabilities
- Coordination
- Physical stamina and endurance
- Swimming skills, safety, and abilities



Though many people who use aquatic therapy are enthusiasts of meditation or massage, some are looking for rehabilitating or improving a certain level of health. The Arthritis Foundation certifies instructors to teach arthritis aquatics. Many participants in these programs report reduced arthritis symptoms, including increased mobility and decreased pain and stiffness.¹⁰ New studies by the Aquatic Exercise Association

suggest that the management of diabetes can be facilitated by water exercise.¹¹ When moderate exercise is recommended for obese patients, the low-gravity qualities of aquatic therapy can be very appealing to this user group.

Water Wellness Seekers

Over the past several years, water exercise programs have multiplied in health clubs, pain clinics, and hospitals. Users include:

Injured Athletes: Athletic trainers and sports medicine physicians are prescribing aquatic therapy as a rehabilitative/preventive fitness program.

Post-Operative Patients and the Disabled: Includes patients with physical ramifications such as spinal dysfunctions, post-operative muscle toning, injuries, and arthritis.

Arthritis Sufferers: The Arthritis Foundation certifies instructors to teach arthritis exercises such as Rusty Hinges and Joint Effort.

Diabetics: Though still in the theoretical stages, studies suggest that water exercise and therapy, when applied to diabetics as a regular program, can reduce diabetes symptoms and assist insulin level management.

Aging Baby Boomers: Some 70 million strong, “boomers” invented the fitness movement and show no sign of abandoning it as they age, especially in warm water pools.

Obese Patients: More doctors are prescribing water wellness for overweight issues.

Pregnant Women: Effects of the low resistance of water exercise is soothing to this user group.

Meditation Enthusiasts: Fans of mind and body movements enjoy immersing in warm water pools to complete the tranquil state of meditation.

Key Components of Aquatic Therapy Centers

Aquatic therapy centers are growing in necessity for rejuvenation and social wellness for rehabilitation needs and developmental disorders. Colorful environments and interactive water is a stimulating, effective, and cathartic treatment, while specific design elements are ultimately inspired by the rehabilitative needs of patients. Key components include:

- Warm pool water capability with fast pool turnovers.
- High-quality water chemical treatment systems, including dual sanitization methods and an appropriately designed HVAC/DH system.
- Easy access from the parking lot to the locker rooms, pool deck, and into the pool.
- Ample space in locker rooms and wider pool deck for wheelchairs, walkers, dry and wet equipment, and dry-side therapy.
- In-water amenities such as perimeter railings, aerobic steppers, treadmills, underwater benches, and ramps.
- Flexible pool depths for multiple programmatic needs.
- Aesthetically pleasing and light-filled private spaces.

Recreation User Groups

Successful aquatic centers combine creative water play areas for various age groups in a safe, friendly atmosphere. While aquatic recreation has become much more age-defined, attractions have age limitations and appropriateness due to elements of thrill and capabilities. Tots enjoy shallow pools with gentle water features and play areas tucked securely out of the way of the more active areas. Once children grow out of the tot stage, they enjoy romping in



zero-depth recreation pools, making their adventurous way across lily pad walks, and climbing on participatory play features with “just-their-size” waterslides. Older children speed down flume and drop slides and enjoy larger water play structures. Teens enjoy gathering spots like action islands with access to deep water pools and more adventurous waterslides. Lazy rivers and current channels cater to most demographics while spas and lap lanes are geared towards adults.

Age Group	Recreational Aquatic Age-Group National Trends
Age 0-3	Tot Pool, Tot Slides, Gentle Spray Features
Age 4-7	Water Sprayground, Zero-Depth Pool, Participatory Play Features, Sand Play
Age 8-11	Water Walks, Large Play Structures, Full-Size Waterslides, Open Water
Age 12-16	Water Walks, Large Waterslides, Open Water, Lazy River, Gathering Places, Sand Volleyball, Mat Racer, Diving Boards
Age 17-22	Action Island, Intense Waterslides, Flow Rider, Mat Racer, Climbing Wall, Open Water, Sand Volleyball, Drop Slides, Diving Boards
Age 23-45	Zero-Depth Pool (to be w/children), Open Water, Spa, Sun Deck, Lap Lanes, Lazy River, Waterslides, Diving Boards
Age 46+	Spa, Sun Deck, Lap Lanes, Lazy River, Family-Friendly Waterslides
	Source: Counsilman-Hunsaker

Competitive User Groups

High School Users

High School varsity swimming is typically well-supported in most communities across the U.S.; however, many schools lack the ideal facility for training and competition. Because quality pool time is usually scarce in most areas, renting pool time from other area facilities can be daunting due to various needs and agendas, thus pool availability can diminish as facilities experience capacity. High school competitive swimming requirements include:



- Course length of 25 yards with a minimum width of 45 feet for six 7 ft. wide lanes or 60 ft. for eight 7 ft. wide lanes.
- 125 spectator seats
- Equipment such as pace clocks, stretch cords, mats (for sit-ups, etc.), free weights, medicine balls, weight training equipment, kickboards, fins, paddles, pull buoys, course caps, and goggles.

Special Olympics

Creating positive and enduring changes in the lives of people with disabilities, their families, friends, coaches, volunteers, and all who cheer them on is the goal of Special Olympics. The organization continued to grow in 2008, serving approximately 3.2 million athletes in 180 countries. The movement’s top five sports include aquatics, athletics, football, basketball, bowling, and table tennis. Aquatic events usually take place in 25-meter pools with relay events that mirror those offered in other international swimming competitions. Events include:¹²

- 25-Meter Freestyle
- 25-Meter Backstroke
- 25-Meter Breaststroke
- 25-Meter Butterfly
- 15-Meter Walk

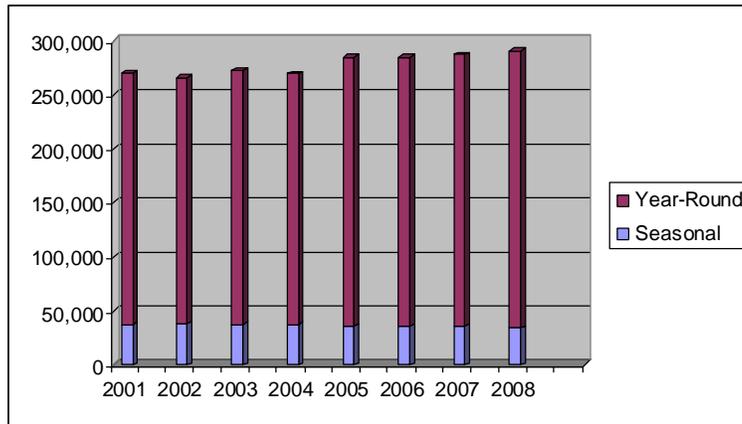


- 15/25-Meter Flootation Race
- 10/15-Meter Assisted Swim

USA Swimming

As the national aquatic governing body for competitive swimming in the United States, USA Swimming formulates rules, implements policies and procedures, conducts national championships, disseminates safety and sports medicine information, and selects athletes to represent the United States in international competitions. USA Swimming has 257,160 members nationwide and sanctions more than 7,000 events each year. USA Swimming has organized regional and national competitions for age group competitive swimming in the United States. The following chart illustrates the historic growth of this youth sport nationally.¹³

USA Swimming Membership Trend



Source: USA Swimming

The base for popularity is primarily a young age group as shown in the following chart.

Average Age of Membership 2008	
8 and under	33,808
9	24,172
10	27,574
11	29,137
12	28,391
13	25,872
14	23,154
15	18,554
16	16,062
17	13,650
18	9,467
19 and over	7,322
Total	257,163

Source: USA Swimming

USA Swimming's Southern Zone includes the North Texas Local Swimming Committee (LSC) with 27 teams that include 4,694 swimmers in the immediate area of Dallas, Plano, Frisco, and North Richland Hills, to name a few.¹³

All USA Swimming sponsored events must meet the minimum standards listed below. Some minimum facility requirements for USA Swimming National Championships are also listed.

- 25-meter pools (82 ft. and ¼ inch) must have a nominal tolerance of plus .03 meters (1 and 3/16 of an inch) to minus .00 meters on both end walls at all points from .03 meters (1 and 3/16 of an inch) above to .8 meters (2 ft. 7½ inches) below the water surface.
- 50-meter pools (164 ft. and ½ inch) must have a nominal tolerance of plus .03 meters (1 and 3/16 of an inch) to minus .00 meters on both end walls at all points from .03 meters above to .8 meters below the water surface.
- A minimum depth of 1.22 meters (4 ft.) is required for starting block competitions; 2 meters (6 ft. 7 inches) is preferred and is the minimum depth for national championship meets.
- Light intensity over starting platforms and turning ends shall be no less than 100 foot candles (600 lux).
- Lanes must be 2.13 meters (7 ft.) wide. For national championships, lanes must be at least 2.5 meters (8 ft. 2 and 1/2 inches) wide with additional open water space of at least .45 meters (1 ft. 6 inches) outside of each the first and last lanes.
- Water temperature shall not be less than 26 degrees Celsius or 78 degrees Fahrenheit (with a nominal plus or minus 1 degree Celsius and two degrees Fahrenheit).
- Air temperature for indoor pools must be no lower than 76 degrees Fahrenheit (eight feet above deck level); humidity must be no greater than 60 percent and air velocity no less than 25 feet per minute.

SOUTHERN ZONE 2008		
LSC	Clubs	Swimmers
Florida	82	7,468
Florida Gold Coast	45	4,518
Georgia	48	6,669
South Carolina	22	2,136
North Carolina	63	6,434
W. Virginia	10	575
Kentucky	32	2,430
Southeastern	69	6,599
Mississippi	14	1,479
Louisiana	29	2,155
Gulf	35	5,230
N. Texas	27	4,694
S. Texas	42	5,100
W. Texas	8	613
Border	7	676
Total	533	56,776
Source: USA Swimming		

The minimum facility requirement for local meets during the school year is a six lane 25-yard pool. During the summer months, when long course swimming prevails, six or eight lane 50-meter pools are the norm. In either case, seating for spectators is considered a bonus, especially if that seating is off deck.

United States Masters Swimming

United States Masters Swimming (USMS) programs are open to all adult swimmers (fitness, triathlete, competitive, non-competitive) dedicated to improving their fitness through swimming. Founded in 1970, the non-profit corporation is organized with 450 clubs throughout the United States. Membership consists of more than 50,000 swimmers ranging in age from 18 to over 100. Within the clubs, structured workouts offer training assistance for specific goals for a healthy lifestyle through camaraderie. Pool and open water races provide opportunities to compete and measure individual progress at the local, state, national, and international levels. USMS programs also offer stroke and technique clinics, workshops, instruction, and social functions. Competitions are organized by age groups of five-year increments (18-24, 25-29, 30-34, 35-39, etc. to 95 and over). Events include 50, 100, 200, 500, 1000 and 1650 freestyle (400, 800 and 1500 in meters); 50, 100 and 200 backstroke, breaststroke and butterfly; and 100, 200, and 400 individual medleys. There are also freestyle and medley relays for men, women, and/or mixed teams. Open water swims are held in most locales during the summer and can range in distance from one to ten miles.

Special events such as seeing how far you can swim in one hour are contested through the mail. USMS hosts two national championship meets a year. A short course (25-yard pool) championship is held in May and a long course (50-meter pool) championship is held in August. These four-day events rotate to different locations around the country. International championships are conducted periodically by Masters Swim organizations in countries throughout the world.¹⁴

Community Swim and Dive Teams

Numerous communities sponsor competitive swimming and diving teams for children and teens. The purpose is to offer opportunity to enjoy the healthy fun of swimming; to support individual achievement of personal bests; and to promote goal setting, life skills, and sportsmanship. Teams typically adhere to recognized swimming rules and swim the standard strokes of swim meets but in shorter lengths. Swimmers with limited or no competitive experience are provided stroke conditioning clinics as a recommended alternative. Teams are usually more active in the warmer months, and not directly associated with a national swim organization. Many swimmers who begin their competitive swimming experience on a local swim team proceed to join nationally governed teams.

Pool Rental

Competitive swimmers, particularly members of independent swimming associations, are accustomed to renting lane space for training as well as leasing entire facilities, either for long-term use or on a one- to three-day basis for special events and competitions. Although there is more than one accepted way to receive fees from swim teams, pool lane rental is usually based on cost per lane/per hour. Entire facilities leased on a per-day basis generally have a fixed schedule of costs for such use. Long-term facility leases are generally the product of negotiation and, accordingly, are too varied and specialized for consideration in the context of this study. The following is an example for calculating lane rental fees using a cost per lane approach.

COST PER LANE/PER HOUR CALCULATION										
days	lane rental hrs per day	lane rental annual hrs	pool size	sq. ft. of pool	annual expenses	operation cost per sq. ft.	# of lanes	sq. ft. per lane	cost to operate each lane	lane rental
360	9	3,240	25 by 25	6,150	\$ 400,000	\$ 65	10	615	\$ 40,000	\$ 12.35
360	9	3,240	50-meter	12,300	\$ 1,000,000	\$ 81	22	559	\$ 45,455	\$ 14.03
100	9	900	50-meter	12,300	\$ 300,000	\$ 24	22	559	\$ 13,636	\$ 15.15
100	9	900	25 by 25	6,150	\$ 150,000	\$ 24	10	615	\$ 15,000	\$ 16.67

Source: Counsilman-Hunsaker

1. Multiply days open by lane rental hours per day = lane rental annual hours
2. Divide annual expenses (no labor) by square foot of pool = operation cost per square foot
3. Divide square foot of pool by # of lanes = square foot per lane
4. Multiply operation cost per square foot by square foot per lane = cost to operate each lane
5. Divide cost to operate each lane by lane rental annual hours = lane rental fee

Section 4: Area Provider Analysis

City of Richardson Pools

Aquatic Providers 0-10 Miles

Aquatic Providers 10-15 Miles

Aquatic Providers 15-20 Miles

Aquatic Providers 20-25 Miles

Section 4: Area Provider Analysis

The recreation industry is a competitive market vying for disposable income driven by population trends, income levels, demographic profiles, and favorable locations. Large aquatic centers and destination facilities offer a grand scale of cutting-edge amenities, deliver a unique customer experience, and draw from a large radius. Small to medium aquatic centers compete by offering family amenities in a cozy atmosphere, thus delivering a friendly customer experience, and serving a local market. The City of Richardson's goal is not to compete for services, but to deliver high quality programs at a reasonable cost to taxpayers. The following information, regarding aquatic facilities within the vicinity, is used to locate gaps in programs and services in the immediate area.

City of Richardson Pools

The City of Richardson operates five outdoor pools from 1 p.m. – 9 p.m. during the summer season. Programming includes summer swim lessons, pool and sprayground rentals, and City of Richardson (COR) USA Swim Team. Indoor practice locations for COR are held at Berkner High School and JJ Pearce High School.

Arapaho Pool

711 W. Arapaho Rd.
Richardson, TX
(972) 671-0184

Arapaho Pool	
Amenities	
L-Shaped Outdoor Pool	
1-meter Diving Board	
Small Waterslide	
Fees	
Daily	
Age 4 & Under	FREE
Age 5+	\$2
Season Pass	
Individual	\$30



Arapaho Pool was built in 1964. A sprayground was added in 1995.

Canyon Creek Pool

600 Aspenwood Dr.

Richardson, TX

(972) 671-0185

Canyon Creek Pool	
Amenities	
L-Shaped Outdoor Pool	
1-meter Diving Board	
Small Waterslide	
Tot Pool	
Fees	
Daily	
Age 4 & Under	FREE
Age 5+	\$2
Season Pass	
Individual	\$30



Canyon Creek Pool was built in 1970.

Cottonwood Pool

1321 W. Belt Line Road

Richardson, TX

(972) 644-7156

Cottonwood Pool	
Amenities	
6 lane 25-yard Outdoor Pool	
Small Waterslide	
Diving Pool	
Two 1-meter Diving Boards	
Fees	
Daily	
Age 4 & Under	FREE
Age 5+	\$2
Season Pass	
Individual	\$30



Cottonwood Pool was built in 1965.

Glenville Pool

500 S. Glenville Drive
Richardson, TX
(972) 671-0187

Glenville Pool	
Amenities	
Outdoor Rectangular Pool 1-Meter Diving board Small Waterslide	
Fees	
Daily	
Age 4 & Under	FREE
Age 5+	\$2
Season Pass	
Individual	\$30



Glenville Pool was built in 1970. A sprayground was added in 2003.

Terrace Pool

300 N. Lois Lane
Richardson, TX
(972) 671-0190

Terrace Pool	
Amenities	
Outdoor Rectangular Pool Zero-Depth Entry Water Feature Small Waterslide Tot Pool	
Fees	
Daily	
Age 4 & Under	FREE
Age 5+	\$2
Season Pass	
Individual	\$30



Terrace Pool was built in 1959. Features also include a basketball hoop.

Aquatic Providers 0-10 Miles

City of Garland (4 miles)

The City of Garland operates four pools: Holford Pool, Bradfield Pool, Wynne Park Pool, and Surf & Swim Wave Pool.

Holford Pool

2322 Homestead Pl.
Garland, TX
(972) 205-2776



Holford Pool	
Amenities	
5-lane 25-meter Outdoor Pool	
Fees	
Age 4 & Under	FREE
Age 5+	\$1.50
Season Pass	
20 coupons	\$20

Holford Pool features wheelchair accessibility, a stairwell entry, and shade structures. Programming includes swim lessons. Pool rentals are available on weekends from 6:30 p.m. – 8:30 p.m. for \$200.

Bradfield Pool

1150 Castle Dr.
Garland, TX
(972) 205-2774



Bradfield Pool	
Amenities	
50-meter Outdoor Pool	
2-Story Waterslide	
Sprayground	
Fees	
Age 2 & Under	FREE
Under 48"	\$1.50
48" & Over	\$3

Bradfield Pool offers swim lessons and water fitness classes. Pool rentals are available on weekends from 6:30 p.m. – 8:30 p.m. for \$400.

Wynne Park Pool
 3858 S. Glenbrook Dr.
 Garland, TX
 (972) 205-2777



Wynne Park Pool	
Amenities	
25-meter Outdoor Pool	
Fees	
Age 4 & Under	FREE
Age 5+	\$1.50

Programming at Wynne Park Pool includes swim lessons. Pool rentals are available on weekends from 6:30 p.m. – 8:30 p.m. for \$200.

Surf & Swim Wave Pool
 440 W. Oates Rd.
 Garland, TX
 (972) 205-3993



Surf & Swim Wave Pool	
Amenities	
Half-million gallon Wave Pool	
Sprayground	
Concessions	
Fees	
Daily	
Age 2 & Under	FREE
Under 48"	\$5
48"+	\$6
Season Pass	
10 coupons:	
Under 48"	\$40
48"+	\$30

Surf and Swim is a 4-acre aquatic complex in Garland, TX.

Hawaiian Falls Garland
 4550 North Garland Ave.
 Garland, TX



Hawaiian Falls Garland	
Amenities	
Wave Pool	
Half-Pipe Tube Ride	
Large Water Structure	
Speed Waterslides	
Children's Activity Pool	
Lazy River	
Mat Racer	
Concessions	
Fees	
Daily	
2 & Under	FREE
48" & Under	\$12
48"+	\$19
Age 60+	\$12
Season Pass	
Individual	\$80

Hawaiian Falls is a waterpark chain owned by Harvest Family Inc., a California-based, Christian-oriented organization. The chain is composed of three waterparks in the Dallas-Fort Worth metroplex. Hawaiian Falls Garland opened in 2003, followed by Hawaiian Falls The Colony in 2004, and then Hawaiian Falls Mansfield. Hawaiian Falls Garland is open during the summer Monday through Saturday from 10:30 a.m. to 7 p.m. and on Sundays from noon to 7 p.m.

City of Plano (5 miles)

The City of Plano operates six aquatic facilities: Jack Carter Pool, Liberty Recreation Center Pool, Harry Rowlinson Community Natatorium, the Tom Muehlenbeck Center Pools, Oak Point Center, and the Plano Aquatic Center.

Jack Carter Pool

2800 Maumelle Dr.
Plano, TX

Jack Carter Pool	
Amenities	
Outdoor 8 Lane 50-Meter Pool	
Waterslide	
1-Meter Divingboard	
Wading Pool	
Zero-Depth Entry	
Tot Slide	
Fees	
Daily	
2 & Under	FREE
3 to16	\$3
17+	\$6
Resident Annual Pass	
3 to16	\$80
17 to 59	\$130
60+	\$100
Nonresident Annual Pass	
3 to16	\$160
17 to 59	\$260
60+	\$200
Work in Plano	\$195



The City of Plano operates Jack Carter Pool, an outdoor 50-meter swimming pool that provides seasonal recreation swimming. The pool is also available for rental.

Liberty Recreation Center Pool

2601 Glencliff Dr.

Plano, TX



Liberty Rec. Center Pool	
Amenities	
Outdoor Recreation Pool	
Fees	
Daily	
2 & Under	FREE
3 to16	\$3
17+	\$6
Resident Annual Pass	
3 to16	\$80
17 to 59	\$130
60+	\$100
Nonresident Annual Pass	
3 to16	\$160
17 to 59	\$260
60+	\$200
Work in Plano	\$195

The City of Plano’s Liberty Recreation Center features a four lane outdoor swimming pool where one lap lane is open during public swim hours. Aquatic programming includes swim lessons, stroke clinics, aquatic resistance training, arthritis aquatic programs, water aerobics, CPO, gym & swim, diving lessons, lifeguard training, water fitness instructor training, water jogging, water walking, water polo, water safety instruction, water babies, water tots, and youth swim conditioning.

Harry Rowlinson Community Natatorium

1712 P Avenue

Plano, TX



Harry Rowlinson Natatorium	
Amenities	
Indoor 6 Lane 25-Yard Pool	
Drop Slide	
Shallow Water Training Area	
Zero-Depth Entry Ramp	
Fees	
Daily	
2 & Under	FREE
3 to16	\$3
17+	\$6
Resident Annual Pass	
3 to16	\$80
17 to 59	\$130
60+	\$100
Nonresident Annual Pass	
3 to16	\$160
17 to 59	\$260
60+	\$200
Work in Plano	\$195

The City of Plano operates Harry Rowlinson Community Natatorium, which offers year-round swimming with zero-depth entry and a shallow-water training area for younger swimmers. Recent renovation of this dual-use Plano Park and Recreation / high school competitive pool includes installation of a new stainless steel gutter, structure, finish, piping, and mechanical system. Programming includes high school swim team and youth swim team.

Tom Muehlenbeck Center Pool

5801 W. Parker Rd.

Plano, TX

Tom Muehlenbeck Ctr. Pool	
Amenities	
Indoor 8 Lane 25-Yard Pool	
Diving Board	
Indoor Leisure Pool	
Drop Slide	
Outdoor Leisure Pool	
Waterslide	
2 Walking Lanes	
Play Structure	
Vortex	
Current Channel	
Sprayground	
Fees	
Daily	
2 & Under	FREE
3 to16	\$3
17+	\$6
Resident Annual Pass	
3 to16	\$80
17 to 59	\$130
60+	\$100
Nonresident Annual Pass	
3 to16	\$160
17 to 59	\$260
60+	\$200
Work in Plano	\$195



The City of Plano operates the Tom Muehlenbeck Center that features both indoor and outdoor pools. The natatorium complements the center’s flowing architecture with a strong visual connection between the inside and outside bodies of water. An eight lane 25-yard indoor pool with on-deck seating provides competitive aquatics while indoor and outdoor recreation pools offer attractions for family entertainment and relaxation. Programming includes swim lessons, CPO, deep water aerobics, and water babies.

Oak Point Center
 6000 Jupiter Road
 Plano, TX

Oak Point Center	
Amenities	
Indoor 8 Lane 50-Meter Pool	
Indoor Leisure Pool Area	
Waterslide	
Tumble Buckets	
Zero-Depth Entry Ramp	
Outdoor Shallow Water Pool	
Waterslide	
Zero-Depth Entry	
Water Playground	
Spray Features	
Fees	
Daily	
2 & Under	FREE
3 to 16	\$3
17+	\$6
Resident Annual Pass	
3 to 16	\$80
17 to 59	\$130
60+	\$100
Nonresident Annual Pass	
3 to 16	\$160
17 to 59	\$260
60+	\$200
Work in Plano	\$195



Plano Parks and Recreation Department opened Oak Point Center in March 2000 with both indoor and outdoor aquatics. Aquatic programming includes public swim, lap swimming, swim lessons, special aquatics, Masters swim team, swim conditioning, stroke clinic, aquatic resistance training, water aerobics, lifeguard training, water babies, and pool party rentals.

Plano Aquatic Center

2301 Westside Dr.

Plano, TX

Plano Aquatic Center	
Amenities	
Indoor 25-Yard Pool Shallow Water Training Area Outdoor Sprayground	
Fees	
Daily	
2 & Under	FREE
3 to16	\$3
17+	\$6
Resident Annual Pass	
3 to16	\$80
17 to 59	\$130
60+	\$100
Nonresident Annual Pass	
3 to16	\$160
17 to 59	\$260
60+	\$200
Work in Plano	\$195



The City of Plano operates this aquatic facility, which offers a shallow-water training area for younger swimmers and an outdoor sprayground during the summer. Programming includes Masters swimming, youth swim team, swim lessons, swim conditioning, water aerobics, gym & swim, water jogging, water walking, water babies, and pool party rentals.

Aqua Fit Swim and Wellness Center

1400 Summit Ave.

Plano, TX

Aquat Fit Swim /Wellness Ctr.	
Amenities	
Indoor 25 x 15 Pool Salt Water System	
Fees	
Not available	

Aqua Fit Swim and Wellness Center is a private indoor warm salt-water pool that offers open swim, lap swimming, water exercise, physical therapy, arthritis foundation aquatic program, swim lessons, birthday parties, parent organization groups, and home school open swim/lessons. The center has a message recording system to return your call to discuss their fees.

Swim Plus Divers Training Center

1108 Dobie Drive
Plano, TX

Swim Plus Training Center	
Amenities	
Indoor 20 x 40 Pool	
Fees	
Membership	
Annual	\$120.00
Classes	Extra

Swim Plus Divers Training Center is a private indoor heated pool available for rental for water exercise classes, water therapy, private swim parties, and scuba equipment testing. The pool accommodates lap swimming, water exercise, physical therapy, swim lessons, CPR classes, lifeguard training, WSI, snorkeling, scuba classes, and wellness workshops.

Aquatic Providers 10-15 Miles

City of Carrollton (10 miles)

The City of Carrollton operates two aquatic facilities: W.J. Thomas Swimming Pool and the Rosemeade Rainforest Aquatic Complex.

W.J. Thomas Swimming Pool

1955 N. Perry Rd.
Carrollton, TX
(972) 466-6376



W.J. Thomas Swimming Pool	
Amenities	
50-meter Outdoor Pool	
Zero-depth Entry	
Two-flume Waterslide	
Concessions	
Fees	
Daily	
Age 3 & Under	FREE
Residents	\$2
Nonresidents	\$4
Season Pass	
Residents	\$40
Family	\$90

W. J. Thomas Swimming Pool is next to Thomas Park baseball fields. Programming includes the Carrollton Aqua Racer swim team, swim lessons, dive lessons, aqua exercise classes, special needs swimming, and pool rentals at \$100 per hour.

Rosemeade Rainforest Aquatic Complex

1334 E. Rosemeade Pkwy.

Carrollton, TX

(972) 466-6399



Rosemeade Rainforest	
Amenities	
50-meter Outdoor Pool	
25-meter Outdoor Pool	
Diving Pool	
Training Pool	
22-ft Two-flume Waterslide	
Zero-Depth Entry	
Two Platform Levels w/ Bridge	
Spray Features	
200-ft. Lazy River	
600-gallon Dump Bucket	
Renovated Bathhouse	
Concessions	
Fees	
Daily	
Age 3 & Under	FREE
Residents	\$3
Nonresidents	\$6
Season Pass	
Residents	\$50
Family	\$100

Aquatic Rosemeade Rainforest Complex is located adjacent to Rosemeade Recreation Center. Programming includes the Carrollton Aqua Racer swim team, swim lessons, dive lessons, aqua exercise classes, special needs swimming, and pool rentals at \$150 per hour.

[City of Allen \(10 miles\)](#)

The City of Allen operates two aquatic facilities: the Don Rodenbaugh Natatorium and Ford Pool.

Don Rodenbaugh Natatorium

Aquatic and Fitness Center

110 E. Rivercrest

Allen, TX



Don Rodenbaugh Natatorium	
Amenities	
Indoor 7,000 SF Leisure Pool	
(3) 25-Yard Fitness Lap Lanes	
Flume Waterslide	
Interactive Play Elements	
Current Channel	
Spa	
Outdoor Deck	
Indoor 25-Yard by 25-Meter Pool	
(2) 1-Meter Diving Boards	
Fees	
Daily	
2 & Under	FREE
3 to 17	\$4
18 to 50	\$5
Senior 50+	\$3
Resident Annual Pass	
3 to 13	\$83
14 to 17	\$132
18 to 50	\$165
Senior 50+	\$132
Resident 3-Month Pass	
Individual	\$60
Resident 6-Month Pass	
Individual	\$100
Nonresident Annual Pass	
3 to 13	\$152
14 to 17	\$202
18 to 50	\$235
Senior 50+	\$202
Resident 3-Month Pass	
Individual	\$85
Resident 6-Month Pass	
Individual	\$145

Programming at the Don Rodenbaugh Natatorium includes swim lessons, water babies, scuba diving, American Red Cross lifeguard training, stroke mechanics and technique, and aqua exercise classes. The natatorium also provides room rental for birthday parties and an indoor rock climbing wall. Two deep water lap lanes are available for public lap swimming during facility hours. The natatorium is the site for the Allen High School District swim meets. Membership includes use of Ford Pool.

Ford Pool

704 Whitman Drive

Allen, Texas

Ford Pool	
Amenities	
Outdoor Pool	
Fees	
Daily	
6 & Under	FREE
Individual	\$1.75
Annual Pass	
Individual	\$45
Family of 2	\$75
Family of 3	\$90
Family of 4	\$105
Family of 5	\$110
Family of 6	\$115
Family of 7	\$120
Family of 8+	\$125



The City of Allen operates Ford Pool, which offers open swimming (1 p.m. to 6 p.m.), swim lessons, and Family Nights. Admission is FREE with membership to the Natatorium or a Ford Pool pass. Ford Pool is available to rent (residents only) most Saturday and Sunday mornings from 10:30 a.m. to 12:30 p.m. and evenings from 6:30 p.m. to 8:30 p.m. during June, July, and August.

City of Mesquite (10 miles)

The City of Mesquite operates four aquatic facilities: Vanston Swimming Pool, City Lake Aquatic Center, Town East Pool, and Evans Swimming Pool. (972) 216-6260

Vanston Swimming Pool

2913 Oates Dr.
 Mesquite, TX
 (972) 270-2687



Programming at Vanston Swimming Pool includes swim lessons.

Vanston Pool	
Amenities	
3 lane Outdoor Lap Pool	
Zero-depth Entry Leisure Pool	
Participatory Play Feature	
Shade Structures	
Fees	
Daily	
Age 3 to 54	\$4
Age 55+	\$2
10-Visit Pass	\$30.00

City Lake Aquatic Ctr.

200 Parkview St.
 Mesquite, TX
 (972) 285-5277

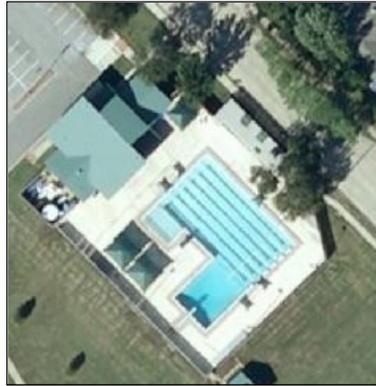


Programming at the City Lake Aquatic Center includes swim lessons.

City Lake Aq. Ctr.	
Amenities	
3 lane Outdoor Lap Pool	
Zero-depth Entry Leisure Pool	
Participatory Play Feature	
Shade Structures	
2 Corkscrew Waterslides	
Fees	
Daily	
Age 3 to 54	\$4
Age 55+	\$2
10-Visit Pass	\$30.00

Town East Pool
2525 John Glenn Pkwy.
Mesquite, TX
(972) 270-2683

Town East Pool	
Amenities	
6 lane 25-yard Outdoor Pool Diving Pool	
Fees	
Daily	
Age 3 to 54	\$2
Age 55+	\$1
20-Visit Pass	\$30.00



Programming at the Town East Pool includes swim lessons.

Evans Swimming Pool (Closed 2009)
1200 Hillcrest St.
Mesquite, TX
(972) 289-9151

The Colony (13 miles)

Colony City Aquatic Park

5580 N. Colony Blvd.

The Colony, TX

(972) 624-2225



Colony City Aquatic Park	
Amenities	
Heated Indoor Pool	
Outdoor Leisure Lagoon	
Wading Pool	
Children's Splash Zone	
Fees	
Daily	
Age 6 & Under	\$3
Age 7+	\$4
Season Pass	
Resident	\$36
Nonresident	\$71
Resident Family	\$80
Nonresident Fam.	\$160

Programming at Colony City Aquatic Park includes swim lessons, competitive swim classes, activities, and rentals. The Aquatic Park features an indoor heated pool during the winter and spring months. Classes in fitness, kayaking, competitive swimming, scuba, & lap swimming are held year-round. This facility also hosts high school swim teams.

Hawaiian Falls The Colony

4400 Paige Road

The Colony, TX



Hawaiian Falls The Colony	
Amenities	
Wave Pool	
Half-Pipe Tube Ride	
Mat Racer	
Inner Tube Slides	
Drop Slides	
Large Play Feature	
Lazy River	
Water Walkway	
Rental Cabanas	
Concessions	
Fees	
Daily	
2 & Under	FREE
48" & Under	\$12
48"+	\$19
Age 60+	\$12
Season Pass	
Individual	\$80

Hawaiian Falls is a waterpark chain owned by Harvest Family Inc., a California-based, Christian-oriented organization. The chain is composed of three waterparks in the Dallas-Fort Worth metroplex. Hawaiian Falls Garland opened in 2003, followed by Hawaiian Falls The Colony in 2004, and then Hawaiian Falls Mansfield. Hawaiian Falls The Colony is open during the summer on Monday, Tuesday, Thursday, and Friday from 10:30 a.m. to 7 p.m.; on Wednesday from 10:30 a.m. to 5:30 p.m.; on Saturday from 10:30 a.m. to 6 p.m.; and on Sunday from Noon to 7 p.m.

City of Dallas (14 miles)

The City of Dallas is responsible for the operation and programming of the city's 21 municipal swimming pools, seven spraygrounds, and a waterpark. Aquatic programming includes swim lessons, lifeguard training, water safety instruction courses, and swim teams. Most pools are older rectangular pools with little or no amenity with the exception of Hawaiian Falls Water Park, which is a state-of-the-art outdoor aquatic center.

1. Jacee-Zaragoza Pool

3125 Tumalo Tr.
Dallas, TX
214.670.6465

Jaycee Pool offers swim lessons, aquatic exercise, water aerobics and swim team.

City of Dallas Pools	
Amenities	
21 Rectangular Outdoor Pools	
7 Spraygrounds	
1 Waterpark	
Fees	
Daily	
Age 5 & Under	FREE
Age 11 & Under	\$1
Age 12+	\$2

2. Martin Weiss Pool

3440 Clarendon
Dallas, TX
214.670.1989

Martin Weiss Pool offers swim lessons and swim team.

3. Tipton Pool

3607 Magdeline
Dallas, TX
214.670.6466

Tipton Pool offers swim lessons and swim team.

4. Hattie Rankin Moore Swim Pool

3122 N. Winnetka Ave.
Dallas, TX
214.670.1391

- 30 yard pool

H.R. Moor Pool offers swim lessons and swim team.

5. Kidd Springs Swimming Pool

807 W. Canty St.
Dallas, TX
214.670.6817

Kidd Springs Pool offers swim lessons and swim team.

6. Grauwlyer Swimming Pool

2157 Anson Road
Dallas, TX
214.670.6444

Grauwlyer Pool offers swim lessons and swim team.

7. Glendale Swimming Pool

1534 W. Five Mile Parkway
Dallas, TX
214.670.1977

8. Bonnie View Swimming Pool

2124 Huntingdon Ave.
Dallas, TX
214.670.6821

9. Exline Swimming Pool

2430 Eugene St.
Dallas, TX
214.670.0350

Exline Pool offers swim team.

10. Samuell-Grand Swimming Pool

3201 Samuell Blvd.
Dallas, TX
214.670.1379

Samuell-Grand Pool offers a junior lifeguard program, diving/fitness, and swim team.

11. Tietze Swimming Pool

6115 Llano Ave.
Dallas, TX
214.670.1380

Tietze Pool offers diving/fitness and swim team.

12. Juanita J. Craft Swimming Pool

3125 Lyons St.
Dallas, TX
214.670.0343

J.J. Craft Pool offers American Red Cross Lifeguard Certification, diving/fitness, and swim team.

13. Walnut Hill Swimming Pool

4141 Walnut Hill Lane
Dallas, TX
214.670.6433

Walnut Hill Pool offers swim lessons and swim team.

14. Everglade Pool

5100 Jim Miller
Dallas, TX
214.670.0940

Everglade Pool offers swim team.

15. Tommie M. Allen Pool

6901 Bonnie View
Dallas, TX
214.670.0982

16. Harry Stone Pool

2403 Millmar Drive
Dallas, TX
214.670.0950

Harry Stone Pool offers junior lifeguard program, diving/fitness, and swim team.

17. Pleasant Oaks Pool

8701 Greenmound
Dallas, TX
214.670.0941

Pleasant Oaks Pool offers swim team.

18. Lake Highlands Pool

9940 White Rock Tr.
Dallas, TX
214.670.1346

Lake Highlands Pool offers swim lessons and swim team.

19. Churchill Pool

7025 Churchill Way
Dallas, Texas
214.670.6177

Churchill Pool offers swim lessons and swim team.

20. McCree Pool

9016 Plano Road
Dallas, TX
214.670.0389

McCree Pool offers swim lessons and swim team.

21. Fretz Pool

14739 Hillcrest
Dallas, TX
214.670.6464

Fretz Pool offers swim lessons, deep water workout, shallow water workout and swim team.

City of Dallas Spraygrounds:

Danieldale Sprayground

300 W. Wheatland
Dallas, TX
Hours: 8am – 8pm

Mildred Dunn Sprayground

3322 Reed Lane
Dallas, TX
Hours: 8am – 8pm

Janie C. Turner Sprayground

6424 Elam
Dallas, TX
Hours: 8am – 8pm

Umphress Sprayground

7616 Umphress
Dallas, TX
Hours: 8am – 8pm

Campbell Green Sprayground

6600 Parkhill Drive
Dallas, TX
Hours: 8am – 8pm

Ridgewood Sprayground

6818 Fisher Road
Dallas, TX
Hours: 8am – 8pm

Lake Highlands Sprayground

9940 White Rock
Dallas, TX
Hours: 8am – 8pm

Hawaiian Falls Water Park

1808 Ariel Drive
 Dallas, TX
 214.670.1917



Hawaiian Falls Waterpark	
Amenities	
Zero-depth Entry Leisure Pool	
Large Waterslides w/ Catch Pools	
Mat Racer	
Lazy River	
Participatory Play Feature	
Spray Features	
Island	
Concessions	
Fees	
Daily	
Age 2 & Under	FREE
48" & Under	\$7
48"+	\$13

Hawaiian Falls is a state-of-the art outdoor medium-sized water park operated by the City of Dallas.

Alfred J. Loos Natatorium

3815 Spring Valley Rd.
 Addison, TX 75244
 972-888-3191



Alfred J. Loos Natatorium	
Amenities	
8 lane 50-meter Indoor Pool	
Bulkhead	
Fees	
Daily	
Individual	\$2

Loos Natatorium is owned and operated by Dallas ISD. Loos has been included in this section because it is the only 8 lane 50-meter indoor pool located in the Dallas area. This competition pool is home to the Dallas Mustangs Swim Team and Masters Swim Team. The bulkhead can configure the pool as two 25-yard courses. During the fall and winter (short-course season), Loos is divided into two eight lane 25-yard pools and during the spring and summer the pool is expanded to its 50-meter length for long-course workouts.

Aquatic Providers 15-20 Miles

City of Irving (16 miles)

The City of Irving is responsible for the operation and programming of eight municipal swimming pools, including North Lake Aquatic Center, Heritage Aquatic Center, Lee Pool, Northwest Pool, Southwest Pool, Lively Pool, Senter Pool, and the new West Irving Aquatic Center slated for 2010.

North Lake Aquatic Center

50001 MacArthur
Irving, TX
972.273.3531



North Lake Aquatic Center	
Amenities	
50-meter Indoor Pool	
Fees	
Daily	
Age 3 & Under	FREE
Age 4 to 17	\$1
Age 18 to 50	\$2
50+	FREE
Annual Pass	
Age 4 to 17	\$40
Age 18+	\$65
Family	\$125

The City of Irving's North Lake Aquatic Center is open year-round for classes and swimming activities. The natatorium is jointly owned by the City of Irving, Irving Independent School District, and the Dallas County Community College District. Open swim times are Monday – Friday 6 a.m. to 8 a.m., 11:30 a.m. to 3 p.m., Tuesday/Thursday 6:30 p.m. to 10 p.m., Friday 6:30 p.m. to 9 p.m., Saturday 1 p.m. to 8 p.m., and Sunday 1 p.m. to 5 p.m. Note: May be closed on some Saturdays and Sundays for special events. Limited lap lanes are available during open swim time. North Lake students and faculty members admitted free with college I.D.

Heritage Aquatic Center

200 S. Jefferson Street

Irving, TX

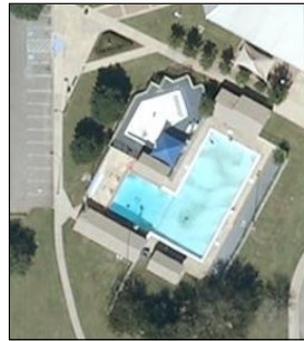
972.721.7310

Heritage Aquatic Center	
Amenities	
20-yard Indoor Pool	
40' Corkscrew Waterslide	
45' Speed Waterslide	
Lap Lanes	
Current Channel	
12-person Spa	
Ramp, Chair Lift, Steps, Rails	
Fees	
Daily	
Age 3 & Under	FREE
Age 4 to 17	\$1
Age 18 to 50	\$2
Age 50+	FREE
Annual Pass	
Age 4 to 17	\$40
Age 18+	\$65
Family	\$125

The City of Irving's Heritage Aquatic Center is open year round and offers aqua aerobics and wellness classes. Kickboards, hand buoys, and life jackets are available. Saturdays offer free water safety presentations.

Lee Pool
 3000 Pamela
 Irving, TX
 972.721.2585

Lee Pool	
Amenities	
25-meter Outdoor Pool	
1-meter Diving Board	
Fees	
Daily	
Age 3 & Under	FREE
Age 4 to 17	\$1
Age 17+	\$1.50



The City of Irving's Lee Pool was built in the 1960's.

Northwest Pool
 2800 Cheyenne
 Irving, TX
 972.721.2609

Northwest Pool	
Amenities	
25-meter Outdoor Pool	
1-meter Diving Board	
Fees	
Daily	
Age 3 & Under	FREE
Age 4 to 17	\$1
Age 17+	\$1.50



The City of Irving's Northwest Pool was built in the 1960's.

Southwest Pool
 3100 W. Shady Grove

Irving, TX
972.721.2408

Southwest Pool	
Amenities	
25-meter Outdoor Pool	
1-meter Diving Board	
Fees	
Daily	
Age 3 & Under	FREE
Age 4 to 17	\$1
Age 17+	\$1.50

The City of Irving's Southwest Pool was built in 1972.

Lively Pool
915 O'Connor
Irving, TX
972.721.2597

Lively Pool	
Amenities	
100' Outdoor Pool	
1-meter Diving Board	
Fees	
Daily	
Age 3 & Under	FREE
Age 4 to 17	\$1
Age 17+	\$1.50

The City of Irving's Lively Pool was built in the 1950's. Hours are Monday/Tuesday/Friday from 1 p.m. to 9 p.m. and Saturday/Sunday from 1 p.m. to 7 p.m.

Senter Pool

901 Senter
Irving, TX
972.721.2638



Senter Pool	
Amenities	
25-meter Outdoor Pool	
1-meter Diving Board	
2-meter Diving Board	
Tot Pool	
Fees	
Daily	
Age 3 & Under	FREE
Age 4 to 17	\$1
Age 17+	\$1.50

The City of Irving's Senter Pool is over 50-years old.

West Irving Aquatic Center

A new state-of-the-art aquatic center will be of 2010 and located near the Georgia Farrow within walking distance to future DART Irving Aquatic Center will offer more than water attractions. Features will include four 25-wheelchair accessible entrance ramp, and such as a rock climbing wall that extends 8 feet above the water. The center will also have lockers and concessions, zero-depth entry, two waterslides, an interactive playground, and a shaded toddler pool. There will be numerous shaded areas available for picnics, parties, and lounging.



built by the summer Recreation Center stations. The West 10,000 sq. ft. of yard lap lanes with a unique amenities

Aquatic Providers 20-25 Miles

City of McKinney (20 miles)

Senior Pool

1400 South College

McKinney, TX

Senior Pool	
Amenities	
Indoor 4 Lane Pool	
Fees	
9 and Under	\$1.25
10+	\$2



The City of McKinney operates Senior Pool, an indoor heated pool with year-round programming, including water exercise classes, lap swimming, and swim lessons.

Old Settler's Aquatic Center

1101 E. Louisiana St.

McKinney, TX

Old Settler's Aquatic Ctr.	
Amenities	
Outdoor Shallow Water Pool	
Open Flume Slide	
Bubblers	
Waterfall	
Tea Cup	
Lemon Drops	
Fees	
Daily	
9 & Under	\$1.25
10+	\$2
Passes	
30 Visits Child	\$25
30 Visits Adult	\$35
Annual	
Child	\$50
Adult	\$75



The City of McKinney operates Old Settler's Aquatic Center, a seasonal shallow-water recreation pool, offering recreation swimming, private party pool rentals, and party pavilion rentals.

Juanita Maxfield Pool

North Park
1701 North McDonald
McKinney, TX

Juanita Maxfield Pool	
Amenities	
Outdoor Recreation Pool	
Water Walk	
Diving Board	
Fees	
Daily	
9 & Under	\$1.25
10+	\$2
Passes	
30 Visits Child	\$25
30 Visits Adult	\$35
Annual	
Child	\$50
Adult	\$75



The City of McKinney operates the Juanita Maxfield Pool, an outdoor seasonal pool, offering swim lessons and recreation swimming.

Finch Park Splash Pad

301 W. Standifer
McKinney, TX

Finch Park Splash Pad	
Amenities	
1,500 Sq. Ft. Splash Pad	
Shooting Arches	
Timed Spray Spouts	
Fees	
FREE	



The City of McKinney operates the Finch Park Splash Pad, which is open daily during the summer, using a self-operated button.

McKinney High School Natatorium

1400 Wilson Creek Pkwy.

McKinney, TX

McKinney H.S. Natatorium	
Amenities	
Indoor 6 Lane 25-Yard Pool	
1 Meter Diving Board	
Fees	
Individual	\$1.50

Programming at the McKinney High School Natatorium includes lap swimming, youth swim teams, high school swim team, water aerobics, hydro-fit, SCUBA lessons, lifeguard training, water safety instructor courses, swim lessons, and open swim.

Metroplex Aquatics

503 N. Kentucky St.

McKinney, TX

Metroplex Aquatics	
Amenities	
Indoor 6 Lane 25-Yard Pool	
Fees	
Registration Fee	\$53
45 mins. 2x week	\$40/month
45 mins. 3x week	\$60/month
1.5hrs. 5x week	\$75/month
2 hrs. 6x week	\$80/month
High Schooler	\$40/month
Masters	\$40/month



Metroplex Aquatics, Inc. (Metro) was established as a private swim center in 1998 under the guidance of Head Coach Brent Mitchell. Metro's mission is to train area youth to swim at different levels through technique foundations and coaching. The team's goal is to

allow swimmers to reach their individual potential in competitive swimming while enjoying interaction with other swimmers. Since its inception, Metro has quadrupled in size and garnered impressive awards and results.

City of Frisco Public Pools (23 Miles)

The City of Frisco is responsible for the operation of two municipal swimming pools (Frisco Athletic Center and Frisco Municipal Pool) and two spraygrounds.

Frisco Athletic Center

5828 Nancy Jane Lane
Frisco, TX



Frisco Athletic Center	
Amenities	
Indoor Aquatic Center	
Play Pool	
Lap Pool	
Activity Pool	
Warm Water Pool	
Participatory Play Feature	
Waterslide	
Current Channel	
Vortex	
Outdoor Aquatic Center	
Leisure Pool	
Waterslides	
Lazy River	
Participatory Play Feature	
Fees	
Daily	
Youth	\$6
Adult	\$8
Resident Annual Pass	
Youth	\$230
Adult	\$350
Senior	\$280
Family	\$600
Nonresident Annual Pass	
Youth	\$350
Adult	\$530
Senior	\$420
Family	\$900

In May 2008, the City of Frisco opened an outdoor 1.8-acre aquatic center, a companion facility to their indoor recreation pool that opened in October 2007. The project was part of a \$16 million dollar recreation center that includes over 60,000 sq. ft. of wet and dry recreation facilities. Cost of the outdoor aquatic facility was just over \$3.4 million. Aquatic programming includes swim lessons, water aerobics, lifeguard training, water safety instructor, birthday parties, and special events.

Frisco Municipal Pool

7775 Camellia Lane

Frisco, TX

Frisco Municipal Pool	
Amenities	
Outdoor Recreation Pool	
Fees	
Daily	
Individual	\$1.25
Resident Annual Pass	
Individual	\$25
Family	\$60



The Frisco Municipal Pool is a seasonal outdoor pool for recreation swimming, summer swim lessons, and special events.

Frisco Spraygrounds (free admission)

J.R. Newman Park

8211 Twin Falls Drive

Frisco, TX

Opened in 2007

Shepherds Glen Park

12012 Shepherds Hill Drive

Frisco, TX

Opened in 2006

City of Grand Prairie (23 miles)

The City of Grand Prairie is responsible for the operation and programming of four municipal swimming pools and one sprayground: Bowles Pool, Tyre Pool, McFalls Pool, Kirby Creek Natatorium, and a sprayground.

McFalls Outdoor Pool

505 Dickey Road
Grand Prairie, TX
972-264-1203



McFalls Pool	
Amenities	
6 lane 25-meter Outdoor Pool	
1-meter Diving Board	
Starting Blocks	
Fees	
Daily	
Individual	\$1

Built in 1958, McFalls Outdoor Pool is currently used for recreation, swimming instruction, swim team training, swim team meets, and pool parties.

Tyre Pool

2327 Tyre Street
Grand Prairie, TX



Tyre Pool	
Amenities	
25-meter Outdoor Pool	
1-meter Diving Board	
Fees	
Daily	
Individual	\$1

Built in 1955, Tyre Pool is used for recreation, swimming instruction, and pool parties. The pool originally had five competitive swim lanes, but is no longer used for competitive swimming.

Bowles Pool

2714 Graham Street
Grand Prairie, TX



Bowles Pool	
Amenities	
6 lane Outdoor 25-meter Pool	
1-meter Diving Board	
Starting Blocks	
Wall Targets, Lane Markings	
Fees	
Daily	
Individual	\$1

Built in 1978, Bowles Pool was renovated in 2001, including the pool pump, filter, exposed piping in the mechanical area, surge tank equipment, main drains, main drain piping, suction piping from the surge tank, pressure piping, replacement of the pool deck, replacement

of the exterior fence, addition of a fabric shade structure, bathhouse renovation, and a ramp from the bathhouse to the pool deck.

Kirby Creek Natatorium

3201 Corn Valley Road
Grand Prairie, TX



Kirby Creek Natatorium	
Amenities	
6 lane 25-meter IndoorPool	
Diving Board	
Starting Blocks	
Seating for Parties	
Fees	
Daily	
Individual	\$2
Annual Pass	
30-Visit Pass	\$40
Individual	\$100
Family of 4	\$250

Kirby Creek Natatorium, built in 1978, is ADA accessible and open year-round. The pool was originally an outdoor pool, but enclosed in 1987. A concrete deck surrounds the pool with a Kool Deck finish. The pool is currently used for recreation swimming, swimming instruction, high school swim team training, water aerobic/fitness classes, and pool parties.

Splash Factory Water Playground (\$1 admission)

601 East Grand Prairie Road
Grand Prairie, TX
972.266-5272

Located behind Charley Taylor Recreation Center, Splash Factory features age-specific play areas and six touch buttons that allow children to interact with the play features. To conserve water, the city installed a swimming filter and chlorination system that re-circulates water through the park. Certified lifeguards monitor and enforce age requirements for the different play areas that include:

City of Grapevine (24 miles)

The Aquatics Division of the City of Grapevine is responsible for the operation and programming of two municipal swimming pools: Dove Pool located in North Grapevine, and Pleasant Glade Pool located in South Grapevine.

Dove Pool

1509 Hood Lane
Grapevine, TX
817-410-8140



Dove Pool is an outdoor facility that offers swim lessons, swim team, lap swimming, open swim, and rentals.

Dove Pool	
Amenities	
Outdoor Lap Pool	
Diving Board	
Tot Pool w/Zero-depth Entry	
Raindrop	
Shade Structures	
Fees	
Daily	
Age 2 & Under	FREE
Age 3+	\$2
Season Pass	
25-Visit Pass	\$30
Individual	\$40
Family	\$80

Pleasant Glade Pool
 1805 Hall Johnson Road
 Grapevine, TX
 817-410-3470



Pleasant Glade Pool of the City of Grapevine is open from Memorial Day to Labor Day from Noon till 5 p.m. and 7:30 to 9:30 p.m.

Pleasant Glade Pool	
Amenities	
6 lane Outdoor Pool	
Tot Pool w/ Water Features	
Shade Structures	
Fees	
Daily	
Age 2 & Under	FREE
Age 3+	\$2
Season Pass	
25-Visit Pass	\$30
Individual	\$40
Family	\$80

Eules Public Pools (24 miles)

The City of Eules is responsible for the operation of three municipal swimming pools: Midway Swimming Pool, South Eules Swimming Pool and Sprayground, and Wilshire Swimming Pool.

Midway Swimming Pool
 300 W. Midway
 Eules, TX
 817.685-1676



Located in Midway Park, the City of Eules' Midway Swimming Pool was built in 1950 and renovated in 1990.

Midway Swimming Pool	
Amenities	
Rectangular Outdoor Pool	
Tube Waterslide	
Picnic Tables	
Fees	
Daily	
Individual	\$1

South Euless Swimming Pool
 600 S. Main Street
 Euless, TX



Located in S. Euless Park, this City of Euless municipal facility was built in 1972. The sprayground was built in 2005. While the pool opens at 1 p.m., the sprayground opens at 9 a.m.

South Euless Swimming Pool	
Amenities	
Rectangular Outdoor Pool	
Tube Waterslide	
Picnic Tables	
Sprayground	
Fees	
Daily	
Individual	\$1

Wilshire Swimming Pool
 315 Sierra Dr.
 817.685-1678

Euless, TX



The City of Euless' swimming pool in Wilshire Park was constructed in 1972.

Wilshire Swimming Pool	
Amenities	
Rectangular Outdoor Pool	
Tube Waterslide	
Picnic Tables	
Fees	
Daily	
Individual	\$1

[City of Arlington \(25 miles\)](#)

The City of Arlington operates five aquatic facilities, including Randol Mill Swimming Pool, Bad Konigshofen Outdoor Family Aquatic Center, Helen Wessler Outdoor Pool, Howard Moore Outdoor Play Pool, and Hugh Smith Indoor Pool.

Randol Mill Swimming Pool

1924 W. Randol Mill Road
Arlington, TX
817-275-7542



At the Randol Mill Swimming Pool, programming includes swim lessons, special events, and rentals.

Randol Mill Swimming Pool	
Amenities	
Zero-depth Outdoor Pool	
Current Channel	
Vortex	
Tot Pool	
Tumble Buckets	
Raindrop	
25-ft. Waterslide	
Party Pavilions	
Concessions	
Fees	
Daily	
Age 1 & Under	FREE
Age 13 mos. To 4	\$4.50
Age 5 to 11	\$5
Age 12+	\$5.50
Nonresident	
Age 1 & Under	FREE
Age 13 mos. To 4	\$6.50
Age 5 to 11	\$7
Age 12+	\$7.50
Season Pass	
Less than 48"	\$45
48"+	\$55
Nonresident	
Less than 48"	\$65
48"+	\$75

Bad Konigshofen Outdoor Family Aquatic Center

2800 West Sublett Road

Arlington, TX

817-459-5223



The City of Arlington’s agrarian style aquatic center, located in SJ Stovall Park, offers the design of a quaint region of Germany. Programming includes swim lessons, birthday parties and rentals for special occasions.

Bad Konigshofen	
Amenities	
4 lane 25-meter Outdoor Pool	
Zero-depth Entry Leisure Pool	
1-meter Diving Board	
2 Waterslides	
Shade Structures	
Concessions	
Sprayground	
Fees	
Daily	
Age 1 & Under	FREE
Age 13 mos. To 4	\$4.50
Age 5 to 11	\$5
Age 12+	\$5.50
Nonresident	
Age 1 & Under	FREE
Age 13 mos. To 4	\$6.50
Age 5 to 11	\$7
Age 12+	\$7.50
Season Pass	
Less than 48"	\$45
48"+	\$55
Nonresident	
Less than 48"	\$65
48"+	\$75

Helen Wessler Outdoor Pool

2310 Greenway
 Arlington, TX
 817-275-7561



The City of Arlington’s Helen Wessler Park was renovated in 1996.

Helen Wessler Pool	
Amenities	
Shallow Water Outdoor Play Pool	
Participatory Play Feature	
Vending Machines	
Fees	
Daily	
Age 1 & Under	FREE
Age 13 mos. to 11	\$3
Age 12+	\$3.50
Nonresident	
Age 1 & Under	FREE
Age 13 mos. to 11	\$3.50
Age 12+	\$4
Season Pass	
Less than 48"	\$45
48"+	\$55
Nonresident	
Less than 48"	\$65
48"+	\$75

Howard Moore Outdoor Play Pool

1999 Bever Blvd.

Arlington, TX

817-275-0712



The City of Arlington’s Howard Moore Outdoor Play Pool, located in Howard Moore Park, was renovated in 2003.

Howard Moor Outdoor Pool	
Amenities	
Shallow Water Outdoor Play Pool	
Participatory Play Feature	
Vending Machines	
Fees	
Daily	
Age 1 & Under	FREE
Age 13 mos. to 11	\$3
Age 12+	\$3.50
Nonresident	
Age 1 & Under	FREE
Age 13 mos. to 11	\$3.50
Age 12+	\$4
Season Pass	
Less than 48"	\$45
48"+	\$55
Nonresidnet	
Less than 48"	\$65
48"+	\$75

Hugh Smith Indoor Pool

1815 New York Ave.

Arlington, TX

817-275-0513



The City of Arlington’s year-round indoor municipal pool is ADA accessible and offers swim lessons, aqua exercise classes, and Friday Night Family Nights.

Hugh Smith Indoor Pool	
Amenities	
25-yard Indoor Pool	
1-meter Diving Board	
Fees	
Daily	
Age Under 2	FREE
Age 2 to 11	\$3
Age 12+	\$3.50
Guest	\$6

Section 5: Development Concepts

Option 1 Splash Pad

Option 2 SNFAC

Option 3 NFAC

Option 4 MFAC

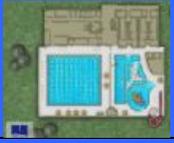
Option 5 LFAC

Option 6 Indoor

Option 7 Venue

Section 5: Development Concepts

The consultants developed 7 concepts for the city to consider.

DEVELOPMENT CONCEPT COMPARISON	
<p>Op. of Proj.Cost \$688,000</p> 	<p>Option 1 Splash Pad (Pad) –Interactive water play element with no standing water.</p>
<p>Op. of Proj.Cost \$3,220,000</p> 	<p>Option 2 Small Neighborhood Family Aquatic Center (SNFAC) – Outdoor multi-purpose recreation pool.</p>
<p>Op. of Proj.Cost \$4,540,000</p> 	<p>Option 3 Neighborhood Family Aquatic Center (NFAC) –Outdoor multi-purpose recreation pool with short course competition pool.</p>
<p>Op. of Proj.Cost \$9,000,000</p> 	<p>Option 4 Medium Family Aquatic Center (MFAC) –Outdoor recreation pool and a separate short course competition pool.</p>
<p>Op. of Proj.Cost \$12,490,000</p> 	<p>Option 5 Large Family Aquatic Center (LFAC) – Outdoor recreation pool and a long course competition pool.</p>
<p>Op. of Proj.Cost \$13,960,000</p> 	<p>Option 6 Indoor Aquatic Center (Indoor) – Indoor competition and recreation pool.</p>
<p>Op. of Proj.Cost \$29,820,000</p> 	<p>Option 7 Indoor 50 Meter Competition Pool (Venue) – Indoor 50 meter pool, dive well with platform diving, and an indoor leisure pool.</p>

Option 1

Splash Pad (Pad) –Interactive water play element with no standing water.

\$688,000

Option 1 features a 1,800 square foot splash pad with bright and cheery play elements. These water play elements unpredictably spray water when children pass under them, by them or touch them. Splash pads are engineered to be vandal-resistant, safe, durable, and entertaining—visit after visit. Moreover, splash pads are barrier free and wheelchair accessible and because there is no standing water, lifeguards are not necessary. This lively park enhancement offers families an exciting new way to enjoy a summer day. Filtration includes a UV sanitizer.

Benefits of UV include:

- Effective against all micro-organisms
- Improves water quality with less chloramines
- Reduces chloramines (combined chlorine) to below 0.2 parts per million (ppm)
- Treats total water flow
- Reduces or eliminates need to superchlorinate
- Not hazardous
- Simple and reliable
- Requires no daily maintenance
- Requires minimal space



OPTION 1 CONCEPTUAL REPRESENTATION



NOT TO SCALE

OPINION OF PROJECT COST: PAD			
Description	Unit	Amount	Opinion of Cost
Aquatics		1,800	\$462,000
Splash Pad	Sq. Ft.	1,800	
Interactive Play Features	Allowance	1	
Vault (Grey water/ Filtration)	Quantity	1	
Equipment (Irrigation/Filtration)	Quantity	1	
UV Sanitizer	Quantity	1	
Total Building Construction Costs			462,000
Site Construction Costs (landscaping, utilities, walks)			\$45,000
Demolition			\$0
Subtotal			\$507,000
Inflation (2 year)	10%		\$50,700
Contingency	10%		\$55,770
Indirect Costs	12%		\$73,616
Opinion of Probable Cost			\$687,086
Say			\$688,000
Source: Counsilman-Hunsaker			

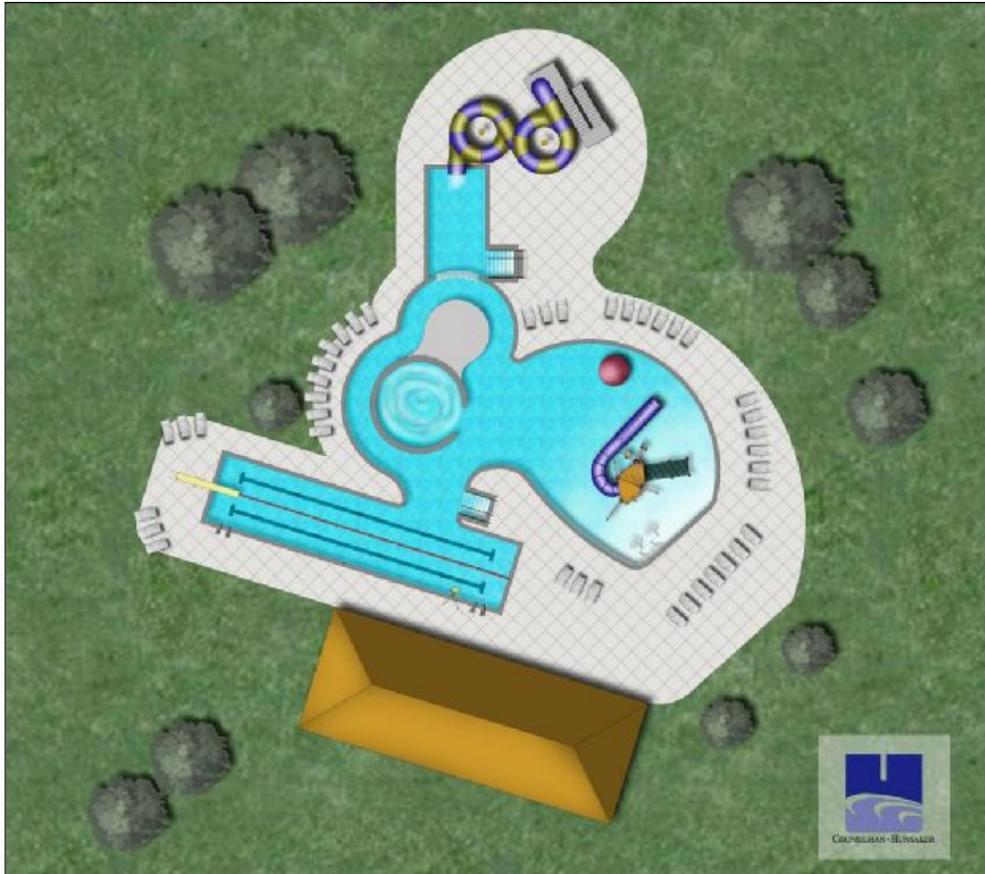
Option 2: Small Neighborhood Family Aquatic Center (SNFAC) – Outdoor multi-purpose recreation pool.

\$3,220,000

Option 2's Small Neighborhood Family Aquatic Center features a 5,100 square foot outdoor multipurpose pool with zero-depth entry, a safe and easy way for everyone to enter the pool without steps or ladders. A waterslide provides thrills and spills for teens and daring adults while a participatory play feature, located near the zero-depth entry, offers activities for children to crawl across tunnels, scamper through spraying water, climb across bridges, and slide down waterslides. A diving board springs into action while an almost silent vortex beckons guests to enter into its swirling waters and enjoy its hydro effects. A current channel provides a serene journey for all ages as well as a great water walking opportunity against the current. Also included are four shade structures, vending machine area, and a bathhouse with a family changing room and locker rooms.



OPTION 2 CONCEPTUAL REPRESENTATION



NOT TO SCALE

OPINION OF PROJECT COST: NFAC			
Description	Unit	Amount	Opinion of Cost
Demolition			Not Included
Bathhouse		2,731	\$476,063
Lobby / Entrance	Sq. Ft.	100	
Managers Office	Sq. Ft.	125	
Guard Room/ First Aid	Sq. Ft.	100	
Pool Mechanical	Sq. Ft.	650	
Building Mechanical	Sq. Ft.	250	
Storage	Sq. Ft.	250	
Locker Rooms	Sq. Ft.	700	
Family Changing Room	Sq. Ft.	100	
Vending	Sq. Ft.	100	
Efficiency	Sq. Ft.	356	
Aquatics		5,100	\$1,316,500
Multipurpose Pool	Sq. Ft.	5,100	
Waterslide (A)	Quantity	1	
Participatory Play Feature	Allowance	1	
Vortex	Add. Cost	1	
Current Channel	Add. Cost	1	
Diving Board	Quantity	1	
Support			\$230,000
Outdoor Deck	Sq. Ft.	6,120	
Fence	Linear Ft.	500	
Overhead Lighting	Sq. Ft.	11,220	
Equipment	Allowance	1	
Shade Structures	Quantity	4	
Total Building Construction Costs			2,022,563
Site Construction Costs (parking lot, landscaping, utilities, walks)			\$348,781
Land Acquisition			Not Included
Subtotal			\$2,371,344
Inflation (2 year)	10.0%		\$237,134
Contingency	10.0%		\$260,848
Indirect Costs	12.0%		\$344,319
Opinion of Project Costs			\$3,213,650
Say			\$3,220,000
Source: Counsilman-Hunsaker			

Option 3

Neighborhood Family Aquatic Center (NFAC) – Outdoor multi-purpose recreation pool with short course competition pool.

\$4,540,000

Option 3's Neighborhood Family Aquatic Center features an 8,457 square foot leisure pool where children can romp in the zero-depth entry and make a big splash on the participatory play feature. This colorful "wet playground" provides climbing opportunities with operating valves, sprays, and slides for hands-on activities. Two waterslides with catch pool offer plunging excitement for children, teens, and adventurous adults. A six lane short course competition pool provides swim events in the summer season and will accommodate water exercise, aerobic classes, swim team training, and many other aquatic lessons. Also included are six shade structures, vending machine area, and a bathhouse with a family changing room and locker rooms.



OPTION 3 CONCEPTUAL REPRESENTATION



NOT TO SCALE

OPINION OF PROJECT COST: NFAC			
Description	Unit	Amount	Opinion of Cost
Demolition			Not Included
Bathhouse		2,904	\$500,438
Lobby / Entrance	Sq. Ft.	100	
Managers Office	Sq. Ft.	125	
Guard Room / First Aid	Sq. Ft.	100	
Pool Mechanical	Sq. Ft.	750	
Building Mechanical	Sq. Ft.	250	
Storage	Sq. Ft.	300	
Locker Rooms	Sq. Ft.	700	
Family Changing Room	Sq. Ft.	100	
Vending	Sq. Ft.	100	
Efficiency	Sq. Ft.	379	
Aquatics		8,457	\$2,011,830
Multipurpose Pool	Sq. Ft.	8,457	
Waterslide (A)	Quantity	1	
Waterslide (B)	Quantity	1	
Participatory Play Feature	Allowance	1	
Support			\$297,355
Outdoor Deck	Sq. Ft.	10,148	
Fence	Linear Ft.	600	
Overhead Lighting	Sq. Ft.	18,605	
Equipment	Allowance	1	
Shade Structures	Quantity	6	

Description	Unit	Amount	Opinion of Cost
Total Building Construction Costs			2,809,623
Site Construction Costs (parking lot, landscaping, utilities, walks)			\$537,729
Land Acquisition			Not Included
Subtotal			\$3,347,351
Inflation (2 year)	10.0%		\$334,735
Contingency	10.0%		\$368,209
Indirect Costs	12.0%		\$486,035
Opinion of Project Costs			\$4,536,340
Say			\$4,540,000
Source: Counsilman-Hunsaker			

Option 4

Medium Family Aquatic Center (MFAC) –Outdoor recreation pool and a separate short course competition pool.

\$9,000,000

Option 4's outdoor Medium Family Aquatic Center features a recreation pool and a separate short course competition pool. The 6-lane 25 yard competition pool with two diving boards provides swim events in the summer season and will accommodate water exercise, aerobic classes, swim team training, diving opportunities, and many other aquatic lessons. A 15,184 square foot leisure pool provides a swimming experience where parents can lounge in the zero-depth entry while keeping a watchful eye on younger children playing on the participatory play feature in the shallow water. Two waterslides and a drop slide offer plunging excitement for teens and adventurous families. An otter slide is child-friendly for those children who are not tall enough to ride the waterslide but too big for the play feature slide. Attached to the leisure pool is the current channel with water traveling at approximately three miles per hour, thus creating a floating adventure or an opportunity for walking against the current as a non-programmed or programmed fitness activity. A 1,550 square foot tot pool with play features and kiddie slide offers Richardson's youngest guests a safe place to enjoy early aquatics. Also included are nine shade structures, a 1,000 square foot pavilion, vending machine area, and a bathhouse with two family changing rooms and locker rooms.



OPTION 4 CONCEPTUAL REPRESENTATION



NOT TO SCALE

OPINION OF PROJECT COST: MFAC			
Description	Unit	Amount	Opinion of Cost
Demolition			\$150,000
Bathroom Renovation		7,665	\$613,180
Lobby	Sq. Ft.	140	
Managers Office	Sq. Ft.	100	
Guard Room / First Aid	Sq. Ft.	125	
Pool Mechanical	Sq. Ft.	2,300	
Building Mechanical	Sq. Ft.	300	
Storage	Sq. Ft.	750	
Locker Rooms	Sq. Ft.	2,600	
Family Changing Room (2)	Sq. Ft.	250	
Vending	Sq. Ft.	100	
Efficiency	Sq. Ft.	1,000	
Aquatics		19,884	\$4,694,380
Leisure Pool	Sq. Ft.	15,184	
Waterslide (A)	Quantity	1	
Waterslide (B)	Quantity	1	
Participatory Play Feature	Allowance	1	
Otter Slide	Quantity	1	
Lily Pad Floatable Walk	Quantity	4	
Current River	Add. Cost	2	
Lap Pool (6 Lane 25 Yard)	Sq. Ft.	3,150	
Drop Slide	Quantity	1	
Springboard Diving	Quantity	2	
Tot Pool	Sq. Ft.	1,550	
Play Features	Allowance	1	
Kiddie Slide	Quantity	1	
Support			\$708,662
Outdoor Deck	Sq. Ft.	29,826	
Fence	Linear Ft.	900	
Overhead Lighting	Sq. Ft.	49,710	
Equipment	Allowance	1	
Pavillion	Sq. Ft.	1,000	
Shade Structures	Quantity	9	

Description	Unit	Amount	Opinion of Cost
Total Building Construction Costs			6,166,222
Site Construction Costs (parking lot, landscaping, utilities, walks)			\$573,748
Subtotal			\$6,739,970
Inflation (2 year)	10.0%		\$673,997
Contingency	10.0%		\$741,397
Indirect Costs	10.0%		\$815,536
Opinion of Project Costs			\$8,970,900
Say			\$9,000,000
Source: Counsilman-Hunsaker			

Option 5

Large Family Aquatic Center (LFAC) – Outdoor recreation pool and a long course competition pool.

\$12,490,000

The trend of mixing elegant pools, adventurous settings, and whimsically playful areas for passive and active swimmers indicates the rise in Large Family Aquatic Centers. Option 5 accommodates the competitive and recreation aquatic needs of the residents of Richardson in a WOW aquatic environment. In addition to being very attractive to recreation swimmers, this option is designed to meet the needs of many organized swimming events with a heated 50-meter championship pool, four diving boards, and a bulkhead to provide swim team training simultaneously with water exercise, aerobic classes, diving opportunities, and other aquatic lessons for the community. The recreation component of this concept consists of a heated 9,800 square foot leisure pool with zero-depth entry for easy access into the water. Two waterslides ensure lifelong memories of plunging into the aquatic paradise as well as a physical challenge of climbing the stairs over and over. A participatory play feature, spray features, lily pad walk, vortex, and current channel offer the amenities of a luxury resort and the thrills and spills of a small waterpark. A 1,000 square foot spray pad provides gentle spray features for little ones. Also included are a 1,000 square foot pavilion, eleven shade structures, vending machine area, and a bathhouse with two family changing rooms and locker rooms.



OPTION 5 CONCEPTUAL REPRESENTATION



NOT TO SCALE

OPINION OF PROJECT COST: LFAC			
Description	Unit	Amount	Opinion of Cost
Demolition			\$0
Bathhouse		12,360	\$2,189,250
Lobby	Sq. Ft.	350	
Managers Office	Sq. Ft.	125	
Recep Office	Sq. Ft.	125	
Guard Room / First Aid	Sq. Ft.	250	
Pool Mechanical	Sq. Ft.	3,500	
Building Mechanical	Sq. Ft.	750	
Storage	Sq. Ft.	1,000	
Locker Rooms	Sq. Ft.	3,750	
Family Changing Room (2)	Sq. Ft.	350	
Vending	Sq. Ft.	100	
Efficiency	Sq. Ft.	2,060	
Seasonal Aquatics		23,459	\$5,168,400
50 Meter Competitive Pool	Sq. Ft.	12,640	
Bulkhead (6' wide)	Quantity	1	
Diving Boards	Quantity	4	
Pool Heater	Quantity	1	
Recreation Pool	Sq. Ft.	9,800	
Waterslide (A)	Quantity	1	
Waterslide (B)	Quantity	1	
Participatory Play Feature	Allowance	1	
Spray Features	Add. Cost	2	
Lily Pad Walk	Quantity	4	
Current Channel	Add. Cost	2	
Vortex	Add. Cost	1	
Pool Heater	Quantity	1	
Spray Pad	Sq. Ft.	1,000	
Spray Features	Allowance	1	
Seasonal Support		51,587	\$571,699
Outdoor Deck	Sq. Ft.	28,128	
Fence	Linear Ft.	908	
Overhead Lighting	Sq. Ft.	51,587	
Pavillion	Sq. Ft.	1,000	
Shade Structures	Quantity	11	

Description	Unit	Amount	Opinion of Cost
Total Building Construction Costs		63,947	7,929,349
Site Construction Costs (parking lot, landscaping, utilities, walks)			\$1,278,940
Furnishings and Equipment	Allowance		\$175,000
Subtotal			\$9,383,289
Inflation (2 year)	10.0%		\$938,329
Contingency	10.0%		\$1,032,162
Indirect Costs	10.0%		\$1,135,378
Opinion of Project Costs			\$12,489,158
Say			\$12,490,000
Source: Counsilman-Hunsaker			

Option 6

Indoor Aquatic Center (Indoor) – Indoor competition and recreation pool.

\$13,960,000

The climate-controlled natatorium offers a haven for competitive swimmers as well as plenty of action for those who wish to swim recreationally. Option 6 features an indoor 25-meter by 25-yard competition pool with two diving boards and 500 balcony seats. This pool is gaining in popularity in the competitive swimming market as it provides both short course lengths for training and meets. Recreation swimmers can laze away the day in the zero-depth entry of the leisure pool or work off energy in the current channel. Three lap lanes offer a vibrant aquatic workout in the beautiful natatorium while a play feature entices little ones to climb, crawl, scamper, and slide. The center provides another big draw at the waterslide, typically a favorite activity among recreation swimmers.



OPTION 6 CONCEPTUAL REPRESENTATION



NOT TO SCALE

OPINION OF PROJECT COST: INDOOR			
Description	Unit	Amount	Opinion of Cost
Demolition			\$0
Public Spaces		5,200	\$1,176,000
Lobby	Sq. Ft.	900	
Control / Cashier	Sq. Ft.	150	
Guard Room / First Aid	Sq. Ft.	150	
Concession / Kitchen Area	Sq. Ft.	400	
Restrooms M/W	Sq. Ft.	500	
Locker Rooms	Sq. Ft.	2,100	
Team Locker Rooms	Sq. Ft.	700	
Family Changing Room (2)	Sq. Ft.	300	
Aquatic Center		24,650	\$6,839,000
25 Meter by 25 Yard Pool	Sq. Ft.	6,200	
Springboard Diving	Quantity	2	
Competitive Natatorium	Sq. Ft.	12,000	
Leisure Pool (3 lanes)	Sq. Ft.	3,400	
Play Feature	Allowance	1	
Current Channel	Add. Cost	1	
Waterslide	Quantity	1	
Leisure Pool Natatorium	Sq. Ft.	8,000	
Balcony Seating (500 seats)	Sq. Ft.	3,000	
Pool Mechanical Room	Sq. Ft.	1,650	
Building Support		2,630	\$480,000
Building Mechanical	Sq. Ft.	1,900	
Electrical	Sq. Ft.	500	
Janitor	Sq. Ft.	50	
Elevator	Sq. Ft.	80	
Elevator Machine	Sq. Ft.	100	
Efficiency		6,496	\$974,400
Circulation and Walls (20%)	Sq. Ft.	6,496	

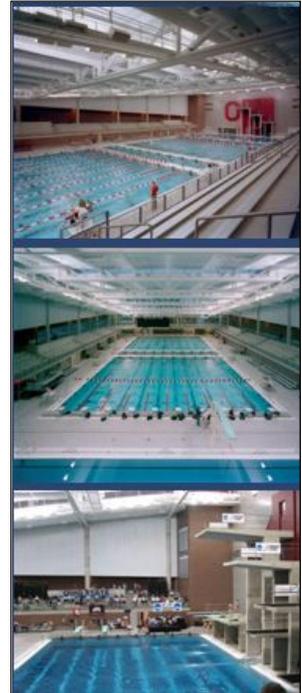
Description	Unit	Amount	Opinion of Cost
Total Building Construction Costs		38,976	9,469,400
Site Construction Costs (landscaping, utilities, walks)			\$779,520
Furniture, Fixtures, Equipment			\$234,000
Subtotal			\$10,482,920
Inflation (2 year)	10.0%		\$1,048,292
Contingency	10.0%		\$1,153,121
Indirect Costs	10.0%		\$1,268,433
Opinion of Probable Cost			\$13,952,767
Say			\$13,960,000
Source: Counsilman-Hunsaker			

Option 7

Indoor 50 Meter Competition Pool (Venue) – Indoor 50 meter pool, dive well with platform diving, and an indoor leisure pool

\$29,820,000

Option 7's natatorium competition venue is designed to meet the needs of year-round major swimming meets as well as year-round programming for aquatics, fitness, and lessons. Features include an indoor 50-meter competition pool with four springboards, one platform dive, and an air sparger system that cushions a diver's entry into the water. The movable floor alters water depth for various purposes while the two movable bulkheads offer the versatility to accommodate other aquatic lessons, fitness, and activities in designated areas of the pool and consequently, revenue potential. The pool features fast water, large decks, and 1,500 balcony seats for spectators to view major long course events. This competition venue may generate revenue to hotels, restaurants, and retail businesses in the area when hosting major events. The indoor leisure pool with its gently sloping entry is designed to celebrate the senses as the outside world melts away. Three fitness lap lanes and a current channel provide water exercise while a play feature and waterslide offer the ultimate in barefoot fun for hours of climbing and sliding water entertainment. Also included is a 3,000 square foot multipurpose room and catering area as well as locker rooms.



OPTION 7 CONCEPTUAL REPRESENTATION



NOT TO SCALE

Description	Unit	Amount	Opinion of Cost
Entrance		1,550	\$276,750
Basic Lobby	Sq. Ft.	800	
Check-in Desk	Sq. Ft.	250	
Store	Sq. Ft.	500	
Office Space		870	\$136,050
Facility Manager	Sq. Ft.	120	
Aquatic Coordinator	Sq. Ft.	100	
Lifeguard/First Aid	Sq. Ft.	150	
Coaches Workspace	Sq. Ft.	200	
Office Storage	Sq. Ft.	300	
Shared Areas		3,700	\$633,000
Multi-Purpose Room	Sq. Ft.	3,000	
Storage	Sq. Ft.	300	
Catering Area	Sq. Ft.	400	
Restroom Areas		4,100	\$984,000
General Locker Rooms (M/W)	Sq. Ft.	2,250	
Family Changing Rooms (2)	Sq. Ft.	150	
Second Floor Restrooms (M/W)	Sq. Ft.	200	
Men's Team Locker Room	Sq. Ft.	750	
Women's Team Locker Room	Sq. Ft.	750	
Competitive Natatorium		42,270	\$12,963,900
50 Meter Pool (172' X 75')	Sq. Ft.	12,900	
Bulkhead	Quantity	2	
Moveable Floor	Quantity	1	
Diving Pool	Sq. Ft.	4,500	
Springboard Diving	Quantity	4	
Sparger	Quantity	1	
Platform Diving	Quantity	1	
Deck Shower Area	Sq. Ft.	50	
Natatorium Enclosure	Sq. Ft.	31,320	
Spectator Seating (1500 seats)	Sq. Ft.	9,000	
Pool Mechanical Room	Sq. Ft.	1,200	
General Pool Storage	Sq. Ft.	750	

Recreation Natatorium		8,300	\$3,020,560
Leisure Pool (3 lanes)	Sq. Ft.	5,800	
Play Feature	Allowance	1	
Current Channel	Add. Cost	1	
Waterslide	Quantity	1	
Leisure Pool Natatorium	Sq. Ft.	8,000	
General Pool Storage	Sq. Ft.	300	
Building Support		2,530	\$466,000
Building Mechanical	Sq. Ft.	1,850	
Electrical	Sq. Ft.	450	
Janitor	Sq. Ft.	50	
Elevator	Sq. Ft.	80	
Elevator Machine	Sq. Ft.	100	
Circulation/Walls		12,664	\$2,152,880
80% efficiency	Sq. Ft.	12,664	
Total Square Footage	Sq. Ft.	75,984	\$20,633,140
Furnishings and Equipment	Allowance		\$456,000
Site Construction Costs	Allowance		\$1,520,000
Subtotal			\$22,609,140
Inflation (2 years)	10%		\$2,260,914
Contingency	10%		\$2,487,005
Indirect Costs	9%		\$2,462,135
Total Estimated Project Costs:			\$29,819,195
Say			\$29,820,000
Source: Counsilman-Hunsaker			

APPENDIX A: REFERENCE

1. City of Richardson, Texas. Retrieved 11-09-09. <http://www.cor.net/>
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RESOLUTION NO. 10-21

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF RICHARDSON, TEXAS, ADOPTING THE CITY OF RICHARDSON PARKS, RECREATION & OPEN SPACE MASTER PLAN 2010 AND BEYOND; PROVIDING A REPEALING CLAUSE; PROVIDING A SEVERABILITY CLAUSE; AND PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, the City has inventoried existing parks, open spaces and recreational resources, conducted citizen surveys, conducted focus group interviews, received community leaders and City staff input, compared facilities and park networks with national standards and peer cities, and received public response to the City of Richardson Parks, Recreation & Open Space master Plan 2010 and Beyond; and

WHEREAS, a quality park system is a key component of the quality of life in Richardson; and

WHEREAS, the Parks and Recreation Commission has reviewed the City of Richardson Parks, Recreation & Open Space master Plan 2010 and Beyond and recommends its adoption; and

WHEREAS, the City Council has reviewed the City of Richardson Parks, Recreation & Open Space master Plan 2010 and finds that the same should be adopted.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF RICHARDSON, TEXAS:

SECTION 1. That the City of Richardson Parks, Recreation & Open Space master Plan 2010 and Beyond, a copy of which is on file in the office of the City Secretary and incorporated herein by reference is hereby adopted and shall guide the investment policies and investment strategies for the City, and shall define the authority of the investment official of the City from and after the effective date of this resolution.

SECTION 2. That all provisions of the resolutions of the City of Richardson, Texas, in conflict with the provisions of this resolution be, and the same are hereby, repealed, and all other provisions not in conflict with the provisions of this resolution shall remain in full force and effect.

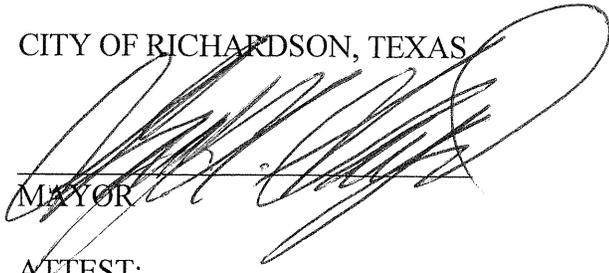
SECTION 3. That should any word, sentence, paragraph, subdivision, clause, phrase or section of this resolution be adjudged or held to be void or unconstitutional, the same shall not

affect the validity of the remaining portions of said resolution which shall remain in full force and effect.

SECTION 4. That this resolution shall become effective immediately from and after its passage.

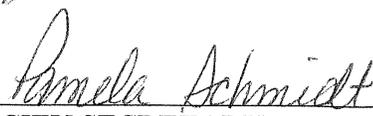
DULY RESOLVED AND ADOPTED by the City Council of the City of Richardson, Texas, on this the 13th day of September, 2010.

CITY OF RICHARDSON, TEXAS



MAYOR

ATTEST:



CITY SECRETARY

APPROVED AS TO FORM:



CITY ATTORNEY
(PGS:9-8-10:45175)