

b BerryDunn

City of Kirkland, WA Athletic Field Use & Demand Analysis Study Stakeholder Meeting #2

Wednesday, January 19, 2022

GREENPLAY

The Leading Edge In Parks, Recreation, And Open Space Consulting







Thank you for attending. We will begin shortly.

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No decisions have been made.

We want your input!



Your Local Project Team



The Leading Edge In Parks, Recreation, And Open Space Consulting

PNW Regional Office Gresham, Oregon



Jeff Milkes, MS, CPRP **Project Manager**



Tom Diehl, MS, CPRP Principal-in-Charge



Dave Peterson, MS, PLA **GRASP®** Team Leader



Caylon Vielehr GIS Analyst



Seattle, Washington



Boulder, Colorado



Clayton Beaudoin,



Chris Cares, Principal Founding Partner



Derrick Eberle, PLA, ASLA



Information Gathering

> Athletic Field Use & Demand Analysis SurveyMonkey Tool Developed by GreenPlay

- City of Kirkland Project Team provided input and approved SurveyMonkey Tool
- Additional Field related questions included in the Community Needs Assessment Survey just launched
- Additional field usage information and data is being provided by City of Kirkland staff

> 55 Stakeholders Identified by City of Kirkland Staff Emailed SurveyMonkey Tool link

- Current Users/Past Users/People who do not have access
- Lake Washington School District Staff City administrators
- Social Users/Engaged Citizens/Other Athletic League Inquiries

> 24 Stakeholders Identified by City of Kirkland Staff Completed SurveyMonkey Tool

> Additional Analysis Includes:

- Review of City of Kirkland Athletic Fields Policies and Procedure documents
- GreenPlay Level of Service Analysis and GRASP®
- Site Workshop assessed conditions and playability of athletic fields
- PROS Plan User Needs Assessment results

55 Stakeholder Groups Invited to Complete Survey Tool

- Absolute Blast Fastpitch
 Association
- Boys and Girls Club of King County •
- Cedar Park Church
- Churchome

- Disc Northwest
- District 9 Little League
 International
- Eastside Huskies Baseball Club
- Eastside Lions Youth Rugby
- Google
- Greater Seattle Soccer League
- Juanita Baseball Club
- Juanita High School
- Juanita Lacrosse
- KB Fastpitch
- Kirkland American Little League
- Kirkland Baseball Commission
- Kirkland FC (2)
- Kirkland Merchants
- Kirkland National Little League
- Kirkland Steelers

Lake Washington Girls Lacrosse
 Association

Lake Washington High School

- Lake Washington Junior Kangs
- Lake Washington Lacrosse
- Lake Washington School District (2)
- Lake Washington Youth Soccer
 Association
- Lakeview Elementary PTSA
- North Lake Little League
- Northlake Soccer
- Northshore YMCA
- Northwest University
- OL Reign Academy
- Puget Sound Senior Cricket
 Association
- Puget Sound Senior Baseball League
- Puget Sound Senior Softball
 Association
- Radke Softball
- Seattle Elite Baseball

- Seattle Sounders
- Snohomish Select
- Social Users / Personal (8)
- Super 11 Cricket Academy
- Titans Premier FC
 - United States Volleyball League
- Unity Soccer Club
- Washington Ladyhawks 18 Gold -Hirai/Simpson
- WW Sweets Baseball Club
- Other (please specify) Personal

*Stakeholder groups in red font completed the survey tool

Needs Assessment Key Findings



PARK USAGE

City parks are the most widely used facilities, services or programs provided by Kirkland Parks and Community Services. 66% of Invite respondents and 73% of Open link respondents use City parks at least a few times a month or more. Open link respondents are more likely to be users.

COMMUNICATION

There is some room for improvement to better leverage communication efforts and information dissemination about parks and recreation to further create awareness in Kirkland. 23% of overall respondents indicated that communication effectiveness is not effective, with an average score of 3.3 (on a scale of 1 to 5).



IMPORTANCE

On a scale of 1 to 5, with 5 being very important, Invite respondents rated parks and open spaces (4.7), trails in parks and/or city trail systems (4.7) and restrooms (4.4) as the most important facilities and amenities to their households. Programs and services were less important overall with special events rating the highest at 3.6.

NEEDS MET

In terms of facilities meeting the needs of the community, invite respondents rated all facilities and amenities and all programs and services above average (3.0). Parks and open spaces rated the highest for facilities at 4.1 and special events rated the highest for programs and services at 4.0.





Stakeholder Desired Diamond Field, Rectangular Field, Small Open Space, or Large Open Space

Do you desire a diamond field, rectangular field, small open space, or large open space





Frequency of Use By Invite Sample

Q: Prior to the current CDC guidelines and restrictions on accessing parks and recreational facilities that were put into effect for COVID-19, how frequently have you and/or a member of your household used or participated in any of the following facilities, services or programs provided by Kirkland Parks and Community Services? by "Invite Sample"

At least once a week A few times a month At least once a month A few times a year Have not visited

				Percent Responding:		
Rating Category	Avg.	n=	1 & 2	3	4 & !	5
City parks	2.1	639	43% 66%	15%	18%	
Dog parks	4.2	623	16%	5%	65%	79%
Athletic rectangle fields (soccer, football, etc.)	4.3	618	11%	5%	63%	83%
Athletic diamond fields (baseball, softball, etc.)	4.4	620	9%	3%	71%	87%
Tennis courts	4.4	625	6%	5%	66% 22%	6 88%
Community Centers	4.5	622	6%	4%	66% 24%	90%
Programs	4.5	618	6%	4%	69%	91%
Basketball courts	4.5	616	7%	3%	73%	90%
Peter Kirk Pool	4.6	622	6%	1%	74%	92%
Rentals (Community Center, pavilions, etc.)	4.8	617	1%	1%	82%	98%
Volleyball courts	4.8	618	2%	2%	86%	97%
Pickleball courts	4.8	617	3%	1%	91%	96%



Frequency of Use By Open Link Sample

Q: Prior to the current CDC guidelines and restrictions on accessing parks and recreational facilities that were put into effect for COVID-19, how frequently have you and/or a member of your household used or participated in any of the following facilities, services or programs provided by Kirkland Parks and Community Services? by "Open Link Sample"

At least once a week A few times a month At least once a month A few times a year Have not visited

			Percent Responding:			
Rating Category	Avg.	n=	1&2	3	4 &	5
City parks	1.9	2,110	51% 73%	12%	15%	
Athletic diamond fields (baseball, softball, etc.)	4.0	2,084	18%	5%	57%	77%
Athletic rectangle fields (soccer, football, etc.)	4.1	2,077	17%	6%	56% 21%	77%
Dog parks	4.2	2,091	17%	4%	64%	79%
Community Centers	4.3	2,081	9%	5%	58% 29%	87%
Programs	4.4	2,077	7%	3%	61% 29%	91%
Peter Kirk Pool	4.5	2,090	8%	2%	67% 23 ⁴	% 90%
Tennis courts	4.5	2,075	6%	5%	69%	89%
Basketball courts	4.5	2,058	7%	4%	72%	89%
Pickleball courts	4.6	2,080	8%	2%	83%	90%
Rentals (Community Center, pavilions, etc.)	4.8	2,078	1%	1%	80%	98%
Volleyball courts	4.8	2,072	2%	2%	86%	96%



Stakeholder Desired Types of Fields

Type of field used/desired (please choose all that apply)



Stakeholder Support for Converting Existing Fields to Synthetic Turf

Are you in favor of the City of Kirkland converting existing fields to synthetic turf?



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Increase Usage

Q: What are the most important areas that, if addressed by Kirkland Parks and Community Services, would increase your use of parks and recreation facilities, programs and services? (Check all that apply) by "Source"





Stakeholder Support for Constructing New Synthetic Turf Fields

Are you in favor of the City of Kirkland constructing new synthetic turf fields?



Importance of Current Facilities and Amenities By Average

Q: How important are the following facilities and services are to your household? FACILITIES AND AMENITIES by "Source"

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		Overall			Invite Sample			Open Link		
Parks and open spaces	n=2,574		4.7	n=616		4.7	n=1,958		4.7	
Trails in parks and/or city trail systems	n=2,576		4.7	n=619		4.7	n=1,957		4.6	
Restrooms in parks	n=2,573		4.4	n=615		4.4	n=1,958		4.4	
Lifeguarded beaches	n=2,535	3.1		n=600	3.1		n=1,935	3.1		
Community gardens	n=2,527	3.1		n=594	3.1		n=1,933	3.0		
Outdoor pool	n=2,533	3.0		n=602	3.0		n=1,931	3.0		
Community Centers	n=2,533	2.9		n=603	2.9		n=1,930	2.9		
Rectangle athletic fields (soccer, football, etc.)	n=2,508	2.8		n=591	2.8		n=1,917	2.8		
Off-leash dog areas	n=2,537	2.7		n=601	2.6		n=1,936	2.7	1-N 2	lot at all important
Tennis courts	n=2,515	2.6		n=594	2.6		n=1,921	2.5	3	
Diamond athletic fields (baseball, softball, etc.)	n=2,513	2.4		n=595	2.3		n=1,918	2.4	4 5 - V	ery important
Synthetic turf fields	n=2,512	2.3		n=591	2.2		n=1,921	2.3		
Pickleball courts	n=2,512	2.2		n=593	2.0		n=1,919	2.2		
Basketball courts	n=2,524	2.1		n=601	2.3		n=1,923	2.1		
Volleyball courts	n=2,512	2.1		n=598	2.1		n=1,914	2.0		



Most Important Needs for Improvement By Average

Q: What are the most important needs for improvement for Kirkland Parks and Community Services over the next 5 to 10 years? by "Source"





Top 3 Priorities

Q: Which three facilities/amenities or programs/services are the highest priorities to your household? Top 15 by "Source"





Needs Met of Current Facilities and Amenities By Average

Q: How do you think they are currently meeti	ng the needs of the	e community?	FACILITIE	S AND AMEN	IITIES by "	Source"
	O	Overall		Q 0: Source		
Parks and open spaces	n=2,061	3.9	n=502	4.1	n=1,559	3.9
iamond athletic fields (baseball, softball, etc.)	n=1,078	3.8	n=283	3.9	n=795	3.8
rails in parks and/or city trail systems	n=2,009	3.8	n=488	4.0	n=1,521	3.7
'olleyball courts	n=762	3.6	n=200	3.8	n=562	3.6
ectangle athletic fields (soccer, football, etc.)	n=1,068	3.6	n=273	3.8	n=795	3.5
feguarded beaches	n=1,362	3.6	n=349	3.7	n=1,013	3.5
ennis courts	n=1,047	3.6	n=274	3.7	n=773	3.5
ommunity Centers	n=1,087	3.5	n=279	3.7	n=808	3.5
asketball courts	n=822	3.5	n=231	3.6	n=591	3.5
utdoor pool	n=1,350	3.4	n=343	3.6	n=1,007	3.4
community gardens	n=1,052	3.3	n=272	3.4	n=780	3.3
Restrooms in parks	n=1,912	3.3	n=465	3.5	n=1,447	3.2
ff-leash dog areas	n=1,222	3.1	n=304	3.3	n=918	3.0
ckleball courts	n=740	3.1	n=178	3.3	n=562	3.0
ynthetic turf fields	n=772	3.0	n=202	3.1	n=570	2.9



Most Important Needs for Improvement By Average

Q: What are the most important needs for improvement for Kirkland Parks and Community Services over the next 5 to 10 years? by "Source"





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Most Important Needs for Improvement By Invite Sample

Q: What are the most important needs for improvement for Kirkland Parks and Community Services over the next 5 to 10 years? by "Invite Sample"

						Percent Respor	nding:	
Rating Category	Avg.	n=		1 & 2		3	4 & 5	
New parks in the North area of Kirkland	3.5	498	8% 10	6% 24%		20%	34% 23%	56%
Indoor aquatics center	3.5	562	1	9% 26%		15%	35% 24%	59%
Indoor recreation center	3.4	545	11%	15% 26%		21%	26% 27%	53%
More free or non-fee based special events and activities	3.4	537	13%	12% 25%		24%	24% 26%	50%
New parks in my neighborhood	3.4	550	12%	17% 29%		18%	28% 26%	54%
Splash pads and other water play features	3.0	534	12%	24% 36%		23%	18% 23% 419	6
More culturally-specific special events and activities	2.8	512	16%	27% 43%		21%	15% 20% 35%	
New outdoor aquatic center	2.7	530	19%	29% 48%		21%	15% 17% 31%	
Disc golf courses	2.2	523	20%	44%	63%	18%	8% 12% 19%	2
Build new or convert existing athletic fields to synthetic turf	2.2	485	17%	47%	64%	16%	13% 21%	4 5 - Vary important
Develop facilities for cricket, futsal, rugby, and lacrosse	2.0	508	21%	46%	66%	22%	8% 12%	s - very important



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Most Important Needs for Improvement By Open Link Sample

Q: What are the most important needs for improvement for Kirkland Parks and Community Services over the next 5 to 10 years? by "Open Link Sample"

					P	ercent Responding:		
Rating Category	Avg.	n=		1 & 2		3	4 & 5	
Indoor aquatics center	3.5	1,516	9% 16	25%		20%	34% 21% 55%	
New parks in the North area of Kirkland	3.4	1,323	9% 15	^{5%} 25%		23%	29% 23% 52%	
Indoor recreation center	3.3	1,498	11% 14	4% 25%		27%	21% 27% 48%	
New parks in my neighborhood	3.2	1,531	12%	18% 30%		25%	25% 20% 45%	
More free or non-fee based special events and activities	3.2	1,458	12% 1	16% 27%		30%	19% 23% 43%	
Splash pads and other water play features	3.0	1,465	12%	24% 36%		23%	19% 22% 41%	
New outdoor aquatic center	2.6	1,452	17%	32% 49%		22%	16% 13% 29%	
More culturally-specific special events and activities	2.6	1,385	17%	31% 48%		25%	17% 27%	
Build new or convert existing athletic fields to synthetic turf	2.3	1,266	16%	42% 58%		20%	11% 22%	L - Not at all important 2 2
Disc golf courses	2.1	1,390	20%	47% 67%		19%	14%	o 1 5 - Very important
Develop facilities for cricket, futsal, rugby, and lacrosse	2.0	1,338	22%	48% 70%	6	18%	8% 12%	s-very important



Stakeholders - Which Types of Fields Should be Synthetic Turf Fields?

Which type of fields should be synthetic turf fields?





Existing Athletic Fields Assessment

The inventory included:

- 23 diamond fields
- 6 other surfaces
- > 1 multi-purpose
- > 28 rectangular
- > 3 cinder tracks
- ≻ 7 dirt
- 2 mixed synthetic natural grass
- > 41 natural grass fields
- > 4 synthetic turf rectangular fields

Existing Diamond Athletic Fields Assessment (see pdf document)

	Diamond Scoring Key											
		0	1	2	3	Considerations						
Overall Fi	eld Condition											
	Inadequate/Poor Quality Field		1			Based on reviewers impression of the field considering multiple factors related to field condtion. This may be more subjective than						
<u> </u>	Adequate/Good Quality Field		 	2	<u> </u>	individual elements						
L Cold Co	Excellent Quality Field		<u> </u>		5							
Inneid Co	Indition		1 1	1	1							
<u> </u>	Inadequate/Poor Quality Inneid				<u> </u>	Are drainage issues present (is there standing water/mud)r is there						
	Adequate/Good Quality Infield		 	2	<u> </u>	a noticeable ridge between infield and outrield? Are there areas						
	Excellent Quality Infield				3	with extreme wear?						
Turf Qual	ty		1	1	1							
	Inadequate/Poor Quality Turf		1		<u> </u>	Are there weeds present? Is turf patchy/worn? Is the field a						
\vdash	Adequate/Good Quality Turr	<u> </u>	──	2	<u> </u>							
	Excellent Quality Turf				3							
Irrigation	late to treater				1	1						
\vdash	No Irrigation		──		<u> </u>	-						
	Inadequate Irrigation		1			Does grass area appear to be fully covered? Are there any dry/dead spots?						
	Adequate Irrigation			2								
	Excellent Irrigation				3							
Field Light	ling											
	No Field Lighting	0	<u> </u>		<u> </u>	4						
	Inadequate Quality Field Lighting		1			Is the lighting LED? Are there sufficient light poles for even light						
	Adequate Quality Field Lighting			2		distribution?						
	Excellent Field Lighting				3							
Backstop,	Fencing											
	No backstop/Fencing	0				is the field fully fenced? Are there holes/wear/rust on the fence?						
	Inadequate/Poor Quality Backstop/Fencing		1			Is the field fully renced. Are there? Do the backstons show signs of						
	Adequate/Good Quality Backstop/Fencing			2		How many backstops are there: Do the backstops show sights of						
	Excellent Backstop/Fencing				3	wear						
Dugout			_									
	No dugout	0										
	Inadequate/Poor Quality Dugout		1			is the dupout covered? Do benches show signs of wear?						
	Adequate/Good Quality Dugout			2								
	Excellent Dugout				3							
Bleachers												
	No Bleachers	0										
	Inadequate/Poor Quality Bleachers		1			Is there enough bleacher seating avalable? Do bleachers show signs						
	Adequate/Good Quality Bleachers			2		of wear?						
	Excellent Bleachers				3							

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Existing Diamond Athletic Fields Assessment (see pdf document)

SEE FIRST TAB "SCORING KEY" FOR SCORING VALUE DESCRIPTION										
	Field				Shape - Dia	mond				
Park/School	Field Name	Overall Field Condition	Infield Condition	Turt Quality	Irrigation	Field Lighting	Backstop/Fencing	Dugout	Bleachers	Sum of Scores
132nd Square Park	132nd Square Park Field 1 (to remain)	2	3	1.5	0	0	2	1.5	2	12
Crestwoods Park		2	3	2	3	0	2.5	2.5	2	
	Crestwoods Field 1									17
	Crestwoods Field 2	2	3	2	3	0	2.5	2.5	2	17
	Crestwoods Field 4	3	3	3	3	0	3	2.5	2	19.5
	Everest Field 1	3	3	2	3	0	3	3	3	20
Everest Dark	Everest Field 2	3	3	2	3	0	3	3	3	20
Everest Park	Everest Field 3	3	3	3	3	0	3	3	3	21
	Everest Field 4	3	2	3	2.5	0	3	3	3	19.5
Highlands Park	Highlands Field	1	1	1	0	0	2	0	0	5
Juanita Reach Park	Juanita Beach Field 1	1	3	1	0	0	2	2	2	11
Judilita Deach Park	Juanita Beach Field 2	1	2	1	0	0	2	2	2	10
Peter Kirk Park	Peter Kirk Field	3	3	3	3	3	3	3	3	24
Spinney Homestead Park	Spinney Homestead Field	1	1	1	0	0	1	0	0	4
	Juanita HS Field 1	3	3	3	0	0	3	3	3	18
Juanita High School	Juanita HS Field 1.5	3	3	3	0	0	3	3	3	18
Juanita High School	Juanita HS Field 2	3	3	3	0	0	3	3	3	18
	Juanita HS Field 3	3	3	0	0	2	3	3	3	17
Lake Washington High	Lake Washington Field 1	3	3	3	3	0	3	3	3	21
School	Lake Washington Field 2	3	3	3	3	0	0	3	3	18
Fine Hill	Finn Hill Field 1	3	3	3	3	0	3	3	3	21
	Finn Hill Field 2	3	3	3	3	0	3	3	3	21
Kamiakin	Kamiakin Field 1	0	3	1	3	0	3	3	0	13
Normann -	Kamiakin Field 2	2	3	1	3	0	3	3	3	18
Kirkland Middle School	Kirkland Field 1	3	3	3	3	0	3	3	3	21
	Kirkland Field 2	3	3	3	3	0	2	1	0	15

Ideal score 24

Existing Rectangular Athletic Fields Assessment (see pdf document)

Rectangle Scoring Key										
	0	1	2	3	Considerations					
Overall Field Condition										
Inadequate/Poor Quality Field Adequate/Good Quality Field		1	2		Based on reviewers impression of the field considering multiple factors related to field condition. This may be more unbiotive than individual elements					
Excellent Quality Field				3	subjective than individual elements					
Turf Quality										
Inadequate/Poor Quality Turf		1			Are there weeds present? Is turf patchy/worn? Is the field a					
Adequate/Good Quality Turf			2		consistent grade or is it undulating/lumpy? Are there areas					
Excellent Quality Turf				3	with extreme wear?					
Synthetic Turf Quality										
No Synthetic Turf	0									
Synthetic Turf Appears to Have Less Than Half of Life Left		1]					
Synthetic Turf Appears to Have More Than Half of Life Left			2							
Excellent/New Quality Synthetic Turf				3	1					
Irrigation										
No irrigation	0				Does grass area appear to be fully covered? Are there any					
Inadequate Irrigation		1			dry/dead spots?					
Adequate Irrigation			2							
Excellent Irrigation				3						
Field Lighting										
No Field Lighting	0				-					
Inadequate Quality Field Lighting		1			Is the lighting LED? Are there sufficient light poles for even					
Adequate Quality Field Lighting			2		light distribution?					
Excellent Field Lighting				3						
Bleachers										
No Bleachers	0									
Inadequate/Poor Quality Bleachers		1			Is there enough bleacher seating avaiable? Do bleachers show					
Adequate/Good Quality Bleachers			2		signs of wear?					
Excellent Bleachers				3						
Goals	1									
No Goals	0		L	<u> </u>						
Inadequate/Poor Quality Goals		1			Are there goals present? Do the goals show signs of wear? Are					
Adequate/Good Quality Goals			2	<u> </u>	the goals movable?					
Excellent Goals				3						
Field Safe Zone										
Not Striped/Marked	0				4					
Inadequate Field Safe Zone		1			Is field safe zone clearly marked? Is field safe zone sloped?					
Adequate Field Safe Zone			2		4					
Excellent Field Safe Zone				3						

Existing Rectangular Athletic Fields Assessment (see pdf document)

SEE FIRST TAB "SCORING KE	EY" FOR SCORING VALUE DESCRIPTION					165 167 167 169					
	Field	Shape - Rectangle									
Park/School	Field Name	Overall Field Condition	Turf Quality	Synthetic Turf	Irrigation	Field Lighting	Fencing	Bleachers	Goals	Issues with Field Safe Zone	Sum of Scores
Crestwoods Park	Crestwoods Field 3	3	2.5	0	3	0	1	0	2	0	11.5
Juanita Beach Park	Juanita Beach Open Space	1	1	0	0	0	0	0	0	0	2
Terrace Park	Terrace Field	1	1	0	0	0	1	0	0	0	3
International/Community School	International/Community Field	2	2	0	3	0	3	0	1	3	14
Emerson High School	Emerson Field	3	3	0	3	٥	3	2	0	3	17
Finn Hill	Finn Hill Football Field	2	2	0	3	0	1	0	2	0	10
Versietie	Kamiakin Open Space	1	1	0	3	0	1	0	0	0	6
Kamiakin	Kamiakin Football Field	1	1	0	3	0	1	0	1	0	7
Kirkland Middle School	Kirkland Football Field	1	1	0	3	0	1	1	2	0	9
AG Rell	AG Bell Field 1	1	1	0	0	0	0	0	1	0	1
Ho ben	AG Bell Field 2	1	1	0	0	0	0	0	1	0	3
Ben Franklin	Ben Franklin Field 1	3	2	0	3	0	1	0	0	0	9
	Ben Franklin Field 2	3	2	0	3	0	1	0	0	0	9
	Carl Sandburg Field 1	1	0	0	0	0	2	2	1	0	6
Can sendourg	Carl Sandburg Field 2	1	1	0	0	0	1	0	0	0	3
Carlos Malles	Helen Keller Field 1	1	0	0	0	0	2	0	0	0	3
Helen Keller	Helen Keller Field 2	1	0	0	0	0	2	0	1	0	4
John Muir	John Muir Field	1	0	0	0	0	3	0	2	0	6
	Juanita Elementary Field 1 (Rear)	2	2	0	3	0	1	0	0	0	8
Juanita Elementary	Juanita Elementary Field 2 (Front)	1	1	0	3	0	2	0	1	0	8
Lakeview	Lakeview Field	3	0	3	0	0	3	0	3	3	15
Mark Twain	Mark Twain Field 1	3	3	0	3	0	2	0	2	0	13
	Peter Kirk Elementary Field 1	2	3	0	3	0	1	0	2	0	13
Peter Kirk Elementary	Peter Kirk Elementary Field 2 (eliminated during redevlopment)									da S	
Para LÉR	Rose Hill Field 1	1	1	0	0	0	0	0	0	0	2
NOSE Pla	Rose Hill Field 2	2	2	0	2	0	0	0	3	0	9
Robert Frost	Robert Frost Field	2	1	0	0	0	3	0	1	0	7
Data	Thoreau Field 1	1	0	0	0	0	2	0	1	0	4
1101020	Thoreau Field 2	1	0	0	0	0	2	0	0	0	3

Ideal score 3

Ideal score 24

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Kirkland Athletic Fields (see pdf document)



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Diamond Athletic Fields (see pdf document)



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Rectangular Athletic Fields (see pdf document)



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Existing Athletic Fields Usage Analysis (see pdf document)

Park/School Name	Field Name	Specificities Tar 42 CE or Advand Specification & Yard (MS) Or Onder 60 or Dirt (20)	/Multiporpese/ Other	2010 Total Permitted mount	materianan ray'nat/wh & ditate
	4e(2)		Duront	92.8	Moral & Writer
and hours fish	600		Surrent	Sec.10	Mortal & Wreier
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		-	and get	10.4	October 21 to Merch 1 Mid-Fall & Wintern
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onetwoods Park	facial.		Giarrani	605.20	October 20 to March 1
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	liei a s		Garrant	80.00	Mid-July 2 Weeks Mid-Eall & Winter October (5 10 Merch 1
	field		Olement	80.0	Mid-July 2 Weeks Mid-Fall & Weeker Gember 15 to March 1
	Recuta		Durrand	81-0	Sept 20 or Mit Park William Children 11 - March 1 Mit Adv 120 or 81
	Recald		Gerand	775-02	Dage 20 or Mild # & Winter Chindrey 21 - March 1 Mid. July 2 Works
Highlands Park			Garrent	258.30	Mo-Fat & Wroor
	Rect1		Durient	10.2	Mill Call & Winter
nanita madi radi	(and)		diament	40 M	Moral & Writer
	and a		Balanta	10.0	October 21 to Menh 1 Mill Fall & Winter
		*	months	~2	Ocuber (5 to Merch 1
Noter tirk Park	lan Johnsonfricte		Distored	80.0	Adultati & Winner September Xito April 1
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one-con mgn 5000 m	(e)(f)		Rectingle	ACC	Counter 21 to March 1 Name
wanita High School	44:02		Durind	15 C	Net
	Contra Co		Narad	-	Martal & Writer
Lake Washington High School	NeV3		Duried	130.30	Marine Ine Xito April 1 Marina Call & Winter September Xito April 1
	del di l		Garrent	10-0	Mo Fait & Weder
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ien sändels school	Anothel East		Renargie	2010	Moral & Writer
	Tab		0.00	100.00	Martal & Wester
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	1691		warrow	w X	October 21 to Merch 3 Mill Call & Winner
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taniakir Métile School			Recorde	20100	Cruder E. to March 1
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	Open Space		Other	0.00	October 21 to March 1
	66/01		Garrent	6900	Modal & Weiser
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ti klard Módie tchool	Evoluti Extr		Butterite	2010	Model & Meder
	Task.		0.00	1000	Condex 21 to March 1 Mod at & Wreer
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AS del Communy School	66.01	0	Richelle	7993	Constant 21 to March 1 MALERIA Minter
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the trackle diversity adout	86931		Reliege	39.0	Coulor 21 to March 1
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neins taller Ennindary Ichod	and the second se		Balanda	17.0	October XI to March 1 Marifall & Writer
			access.		October 21 to March 1 MO-Fatta Writer
AND 100 - CALIFORNIA CALIFY SCHOOL			wonegie		October XI to March 3 Mill Fall & Winter
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Mark Twain Elementary School	66101		Records	42.00	And Full & Winter Constant 21 to March 1
	dana la		Integie	030	Modal & Wreer
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iese hill Generaty School	1 C C C C C C C C C C C C C C C C C C C	÷.	Accession in the second	00.0	Coulor 31 to Meth 1 Mo Fail & Writer
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eser we certinary ideal	8671		Relayin	195.8	Combor IS to March 1
the max the sectory take of		Đ	lessegie	24.42	Ocuder 21 to March 1
	1000		Berlande	200.20	And that & Winter

	Kirkland WA. Sunri	ise/Twilight/Hous of	Daylight/Rain Days Av	e
	Sunrise	Twilight End	Hours of Daylite	Rain Days
anuary	7:55	5:03	9	8.8
ebruary	7:32	5:43	10.3	7.8
March	6:46	6:24	12	8.9
April	6:44	8:10	13.7	8.1
May	5:48	8:55	15.2	7
une	5:12	9:38	15.9	5.4
uly	5:13	9:50	15.5	4.2
August	5:45	9:19	14.2	2.8
ie pte mbe r	6:26	8:21	12.5	6
October	7:07	7:18	10.8	7.2
Vovember	7:52	6:23	9.3	9.1
December	7:35	4:54	8.5	8.9

Data from the Weather Atlas (online) for the Seattle area and from sunrise-sunset.org

Number of Slo	ots Per Elementary Per	Two Hours	Number of Slots @ JHS/L	WHS Per Field During Spr	ing		Number of Slots @ JHS/LWH	IS Per Field June - Ju	ly
Monday	4pm - Dusk	1	Monday	5:30pm - Dusk	1	L	Monday	5:30pm - Dusk	
Tuesday	4pm - Dusk	1	Tuesday	5:30pm - Dusk	1	L	Tuesday	5:30pm - Dusk	
Wednesday	3:00pm - Dusk	1	Wednesday	5:30pm - Dusk	1	L	Wednesday	5:30pm - Dusk	
Thursday	4pm - Dusk	1	Thursday	5:30pm - Dusk	1	L	Thursday	5:30pm - Dusk	
Friday	4pm - Dusk	1	Friday	5:30pm - Dusk	1	L	Friday	5:30pm - Dusk	
Saturday	9am - 12pm	1	Saturday				Saturday	9am - 12pm	
Saturday	12pm - 3pm	1	Saturday	12pm - 3pm	1	L	Saturday	12pm - 3pm	
Saturday	3pm - 6pm	1	Saturday	3pm - 6pm	1	L	Saturday	3pm - 6pm	
Saturday	6pm - Dusk	1	Saturday	6pm - Dusk	1	L	Saturday	6pm - Dusk	
Sunday	9am - 12pm	1	Sunday	9am - 12pm	1	L	Sunday	9am - 12pm	
Sunday	12pm - 3pm	1	Sunday	12pm - 3pm	1	L	Sunday	12pm - 3pm	
Sunday	3pm - 6pm	1	Sunday	3pm - 6pm	1	L	Sunday	3pm - 6pm	
Sunday	6pm - Dusk	1	Sunday	6pm - Dusk	1	L	Sunday	6pm - Dusk	
Total Slots:		13	Total Slots:		12	2	Total Slots:		1

Number	of Slots Field 1 @ 132nd	Square	Number	of Slots Field 2 @ 132nd Squ	are	Number of Slot	s Field 1 & 2 at KiMS, KMS	& FHMS
Monday	4pm - Dusk	1	Monday	4pm - Dusk	1	Monday	4:30pm - Dusk	
Tuesday	4pm - Dusk	1	Tuesday	4pm - Dusk	1	Tuesday	4:30pm - Dusk	
Wednesday	3:00pm - Dusk	1	Wednesday	3:00pm - Dusk	1	Wednesday	3:30pm - Dusk	
Thursday	4pm - Dusk	1	Thursday	4pm - Dusk	1	Thursday	4:30pm - Dusk	
Friday	4pm - Dusk	1	Friday	4pm - Dusk	1	Friday	4:30pm - Dusk	
Saturday	9am - 12pm		Saturday	9am - 12pm	1	Saturday	9am - 12pm	
Saturday	12pm - 3pm		Saturday	12pm - 3pm	1	Saturday	12pm - 3pm	
Saturday	3pm - 6pm	1	Saturday	3pm - 6pm	1	Saturday	3pm - 6pm	
Saturday	6pm - Dusk	1	Saturday	6pm - Dusk	1	Saturday	6pm - Dusk	
Sunday	9am - 12pm	1	Sunday	9am - 12pm	1	Sunday	9am - 12pm	
Sunday	12pm - 3pm	1	Sunday	12pm - 3pm	1	Sunday	12pm - 3pm	
Sunday	3pm - 6pm	1	Sunday	3pm - 6pm	1	Sunday	3pm - 6pm	
Sunday	6pm - Dusk	1	Sunday	6pm - Dusk	1	Sunday	6pm - Dusk	
Total Slots:		11	Total Slots:		13	Total Slots:		

Athletic Fields*			
Rental fees are Per Hour, 2 hour minimum		Resident	Non-Resident
Premium Fields			
Regular Rate	\$	20.00	\$ 24.00
Non-Profit Rate	\$	8.50	\$ 10.00
Class 1 Fields	-		
Regular Rate	\$	17.00	\$ 21.00
Non-Profit Rate	\$	7.00	\$ 8.50
Class 2 Fields			
Regular Rate	\$	14.00	\$ 17.00
Non-Profit Rate	\$	4.00	\$ 6.00
Class 3 Fields			
Regular Rate	\$	13.00	\$ 16.00
Non-Profit Rate	\$	3.00	\$ 4.00
Lakeview Elementary Synthetic Field			
Regular Rate	\$	36.00	\$ 51.00
Non-Profit Rate	\$	30.00	\$ 36.00
Lake Washington High School Combination Synthetic & Dirt Fields	_		
Youth Rate	\$	45.00	\$ 60.00
Adult Rate	\$	80.00	\$ 100.00
* Non-Picnic Use Only, Picnic Use also requires Picnic Shelter/Park Open Space Rental and Fee.			
Add-On Services			
Fees vary based on applicant status - Regular or Non-Profit		Regular	Non-Profit
Game Prep Fee (Per Prep)	\$	30.00	\$ 36.00
Tournament Game Fee (Per Game)	\$	25.00	\$ 30.00
Lights (Per Hour)	\$	20.00	\$ 20.00
Other Fees			
Administrative/Re-Booking Fee	\$		25.00
Cancellation Fee - Minimum \$25. Fees vary depending on cancellation timing. See rental policy for specific site.			(Minimum \$25.00)

Park User Fee Schedule September 2021.xls

Kirkland Athletic Fields Usage

Key observations were:

> 18 fields permitted over 600 hours annually,

above recommended number of hours annually

- > None of the fields were lighted
- Permits allows rectangular sports to use diamond outfields
- Fields are rested October 15 March 15 not during prime growing/rehabilitation seasons



Industry Standard for Field Usage

Grady Mill, in North Carolina State University publication AG-726-W 01/2010 BS, "Maximizing the Durability of Athletic Fields,"

- Sustained good field conditions with 200 hours of play or fewer per year.
- Good field conditions with some thinning of turf and localized wear areas are expected at 400 to 600 hours of use.
- ➢ Fair field conditions are expected at 800 to 1,000 hours of play.
- Over 1,000 hours of play should be rewarded with significant turf loss, field surface damage and increased potential for athlete injury.

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Comparison of Natural Tur	f Field and Artific	ial Turf Life Cycle Costs (20 Year Cycle)	
Natural Turf Field (02.000 SE Turf)		Artificial Turf Field (02 000 SE)	
		Artificial Turi Field (92,000 SF)	
Initial Major Renovoation Construction Cost	\$500,000	Initial Major Renovoation Construction Cost Assumes \$12/sq.ft. Install, 10% Design, 15% Contingency	\$1,400,000
Refurbishing/Rest Cost - 5 times over 20 years Field refurbishment at year 4, 8, 12, 16 & 20 after initial project	\$325,000 \$65,000	Refurbishing Cost Carpet Replacement (year 12) Assumes \$6.80/sq.ft and \$45K for removal/recycling of infill/turf	\$675,000
Average Maintenance Natural Grass over 20 Years Annual Maintenance Natural Turf every 3 out of 4 years Maintenance costs shifted with refurbishment every 4th year	\$46,625 \$51,500 \$32,000	Average Maintenance Synthetic Turf over 20 Years Annual Maintenance Synthetic Turf for 18 years No maint. 1st year & replacment yr.	\$20,43 \$22,70
20 Year Maintenance Costs 15-Year Maintenance Costs winatural grass Maintenance Costs with Renovation every 4 Years	\$932,500 \$772,500 \$160,000	20-Year Maintenance Costs	\$408,60
20-Year Total Maintenance + Capital Average Maintenance Cost/Year over 20 Years	\$1,757,500 \$46,625	20-Year Total Maintenance + Capital Average Maintenance Cost/Year over 20 Years	\$2,483,60 \$20,430
Avg. Annuai Cost. Capitai +Maintenance	\$87,875	Avg. Annuai Cost. Capitai + Maintenance	\$103,463.3
32 w eeks @ 2 hours per day on w eekdays and 5 hours		40 w eeks @ 6 hours per day on w eekdays and 10 hours	
per day on weekends less 15% rain dates		per day on weekends	
Hours per Week	20	Hours per Week	5
Weeks of Use per Year	32	Weeks of Use per Year	4
Hours Permitted per Year	640	Hours per Year	200
Hours per Year minus 15% for Rain	544		
Hours per Year * 20 years	10,880	Hours per Year * 20 years	40,00
20 vrs. Close fields for 20 of 32 playable weeks		Refurbish field at 12 years Close for 20 of 40	
each time. (20 wks*20 hrs*5 rest periods)	2000	playable weeks. (20 wks * 50 hrs)	100
Total Hours Permitted Use in 20-Year Cycle	8,880	Total Hours Permitted Use in 20-Year Cycle	39,00
Cost per Use	\$198	Cost per Use	\$64
(Total Maint. + Capital)/(Total Permitted Hours in 20-Year Cycle)		(Total Maint. + Capital)/(Total Permitted Hours in 20-Year Cycle)	
Natural Turf Field Use (at the current rate 1600 hours)			
Has usage similar to synthetic turf, but without 4 week extended season on either end)			
32 weeks @ 6 hours per day on weekdays and 10 hours per day on weekends less 15% rain dates			
Hours per Week	50		
Weeks of Use per Year	32		
Hours Permitted per Year	1600		
Hours per Year minus 15%	1,360		
Hours per Year * 20	27,200		
Refurbish/rest fields every 4 yrs or 5 times in 20 years. Close fields for 12 of 32 playable wks each time. (12 wks*50 brs*5 rest periods)	3.000		
Total Hours Permitted Use in 20-Year Cvcle	24,200		
Cost per Use	\$72		
(Total Maint. + Capital)/(Total Permitted Hours in 20-Year Cycle)	\$13		

Comparison of Natural Turf Field and Artificial Turf Life Cycle Costs (20 Year Cycle)					
Natural Turf Field (92,000 SF Turf)		Artificial Turf Field (92,000 SF)			
Initial Major Renovoation Construction Cost	\$500,000	Initial Major Renovoation Construction Cost Assumes \$12/sq.ft. Install, 10% Design, 15% Contingency	\$1,400,000		
Refurbishing/Rest Cost - 5 times over 20 years Field refurbishment at year 4, 8, 12, 16 & 20 after initial project	\$325,000 \$65,000	Refurbishing Cost Carpet Replacement (year 12) Assumes \$6.80/sq.ft and \$45K for removal/recycling of infill/turf	\$675,000		
Average Maintenance Natural Grass over 20 Years Annual Maintenance Natural Turf every 3 out of 4 years Maintenance costs shifted with refurbishment every 4th year	\$46,625 \$51,500 \$32,000	Average Maintenance Synthetic Turf over 20 Years Annual Maintenance Synthetic Turf for 18 years No maint. 1st year & replacment yr.	\$20,430 \$22,700		
20 Year Maintenance Costs 15-Year Maintenance Costs <i>w/natural grass</i> Maintenance Costs with Renovation every 4 Years	\$932,500 \$772,500 \$160,000	20-Year Maintenance Costs	\$408,600		
20-Year Total Maintenance + Capital	\$1,757,500	20-Year Total Maintenance + Capital	\$2,483,600		
Average Maintenance Cost/Year over 20 Years	\$46,625	Average Maintenance Cost/Year over 20 Years	\$20,430		
Avg. Annual Cost: Capital +Maintenance	\$87,875	Avg. Annual Cost: Capital + Maintenance	\$103,483.33		
Natural Turf Field Use (at recommended rate)		Synthetic Turf Field Use			
per day on w eekends less 15% rain dates		per day on w eekends			
Hours per Week	20	Hours per Week	50		
Weeks of Use per Year	32	Weeks of Use per Year	40		
Hours Permitted per Year	640	Hours per Year	2000		
Hours per Year minus 15% for Rain	544				
Hours per Year * 20 years	10,880	Hours per Year * 20 years	40,000		
Refurbish/rest field every 4 years or 5 times in 20 yrs. Close fields for 20 of 32 playable weeks each time. (20 wks*20 hrs*5 rest periods) Total Hours Permitted Use in 20-Year Cycle	2000 8,880	Refurbish field at 12 years. Close for 20 of 40 playable weeks. (20 wks * 50 hrs) Total Hours Permitted Use in 20-Year Cycle	1000 39,000		
Cost per Use	\$198	Cost per Use	\$64		
(Total Maint. + Capital)/(Total Permitted Hours in 20-Year Cycle)		(Total Maint. + Capital)/(Total Permitted Hours in 20-Year Cycle)			

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Natural Turf Field Use (at the current rate 1600 hours)	
Has usage similar to synthetic turf, but without 4 week extended	
season on either end)	
32 w eeks @ 6 hours per day on w eekdays and 10	
hours per day on weekends less 15% rain dates	
Hours per Week	50
Weeks of Use per Year	32
Hours Permitted per Year	1600
Hours per Year minus 15%	1,360
Hours per Year * 20	27,200
Refurbish/rest fields every 4 yrs or 5 times in	
20 years. Close fields for 12 of 32 playable	
wks each time. (12 wks*50 hrs*5 rest periods)	3,000
Total Hours Permitted Use in 20-Year Cycle	24,200
Cost per Use	\$73
(Total Maint. + Capital)/(Total Permitted Hours in 20-Year Cycle)	

Comparison of Natural Turf Field with 3 Scenarios and Artificial Turf Life Cycle Costs (20 Yea	'ear Cycle)
Natural Turf Field (92,000 SF Turf) Artificial Turf Field (9	(92,000 SF)
Scenario 1	
Initial Major Renovoation Construction Cost \$500,000 Initial Major Renovoation Construction Cost	st
Assumes \$12/sq.ft. Install, 10% Design, 15% Cd	Contingency

Natural Turf Field (92,000 SF Turf)		Artificial Turf Field (92,000 SF)	
Sconario 1			
Initial Major Renovoation Construction Cost	\$500,000	Initial Major Renovoation Construction Cost Assumes \$12/sq.ft. Install, 10% Design, 15% Contingency	\$1,400,000
Refurbishing/Rest Cost - 5 times over 20 years Field refurbishment at year 4, 8, 12, 16 & 20 after initial project	\$325,000 \$65,000	Refurbishing Cost Carpet Replacement (year 12) Assumes \$6.80/sq.ft and \$45K for removal/recycling of infill/turf	\$675,000
Average Maintenance Natural Grass over 20 Years Annual Maintenance Natural Turf every 3 out of 4 years Maintenance costs shifted with refurbishment every 4th year	\$46,625 \$51,500 \$32,000	Average Maintenance Synthetic Turf over 20 Years Annual Maintenance Synthetic Turf for 18 years No maint. 1st year & replacment yr.	\$20,430 \$22,700
20 Year Maintenance Costs 15-Year Maintenance Costs winatural grass Maintenance Costs with Renovation every 4 Years	\$932,500 \$772,500 \$160,000	20-Year Maintenance Costs	\$408,600
20-Year Total Maintenance + Capital Average Maintenance Cost/Year over 20 Years	\$1,757,500 \$46,625	20-Year Total Maintenance + Capital Average Maintenance Cost/Year over 20 Years	\$2,483,600 \$20,430
Avg. Annual Cost: Capital +Maintenance	\$87,875	Avg. Annual Cost: Capital + Maintenance	\$103,483.33

\$51,500

Scenario 2	
Initial Major Renovoation Construction Cost	\$500,000
Rest & Modest Refurbishment- 10 times over 20 years	\$100,000
Field rest for 6-8 weeks every 2 years	\$10,000
Average Maintenance Natural Grass over 20 Years	\$41,750
Annual Maintenance Natural Turf every other year	\$51,500
Maintenance costs shifted with rest every 2 years	\$32,000
20 Year Maintenance Costs	\$835,000
10-Year Maintenance Costs w/natural grass	\$515,000
Maintenance Costs with rest every 2 Years	\$320,000
20-Year Total Maintenance + Capital	\$1,435,000
Average Maintenance Cost/Year over 20 Years	\$41,750
Avg. Annual Cost: Capital +Maintenance	\$71,750
Scenario 3	
Initial Major Renovoation Construction Cost	\$500,000
No Refurbishment or Rest	\$0
Annual Maintenance Natural Grass	\$51,500
20 Year Maintenance Costs	\$1,030,000
20-Year Total Maintenance + Capital	\$1,530,000

Average Maintenance Cost/Year over 20 Years



Comparison of Natural Turf Field with 3 Scenarios and Artificial Turf Life Cycle Costs (20 Year Cycle)

Natural Turf Field (92,000 SF Turf)		Artificial Turf Field (92,000 SF)	
Scenario 1			
Initial Major Renovoation Construction Cost	\$500,000	Initial Major Renovoation Construction Cost Assumes \$12/sq.ft. Install, 10% Design, 15% Contingency	\$1,400,000
Refurbishing/Rest Cost - 5 times over 20 years Field refurbishment at year 4, 8, 12, 16 & 20 after initial project	\$325,000 \$65,000	Refurbishing Cost Carpet Replacement (year 12) Assumes \$6.80/sq.ft and \$45K for removal/recycling of infill/turf	\$675,000
Average Maintenance Natural Grass over 20 Years Annual Maintenance Natural Turf every 3 out of 4 years Maintenance costs shifted with refurbishment every 4th year	\$46,625 \$51,500 \$32,000	Average Maintenance Synthetic Turf over 20 Years Annual Maintenance Synthetic Turf for 18 years No maint. 1st year & replacment yr.	\$20,430 \$22,700
20 Year Maintenance Costs 15-Year Maintenance Costs w/natural grass Maintenance Costs with Renovation every 4 Years	\$932,500 \$772,500 \$160,000	20-Year Maintenance Costs	\$408,600
20-Year Total Maintenance + Capital	\$1,757,500	20-Year Total Maintenance + Capital	\$2,483,600
Average Maintenance Cost/Year over 20 Years	\$46,625	Average Maintenance Cost/Year over 20 Years	\$20,430
Avg. Annual Cost: Capital +Maintenance	\$87,875	Avg. Annual Cost: Capital + Maintenance	\$103,483.33

Scenario 2	
Initial Major Renovoation Construction Cost	\$500,000
Rest & Modest Refurbishment- 10 times over 20 years	\$100,000
Field rest for 6-8 weeks every 2 years	\$10,000
Average Maintenance Natural Grass over 20 Years	\$41,750
Annual Maintenance Natural Turf every other year	\$51,500
Maintenance costs shifted with rest every 2 years	\$32,000
20 Year Maintenance Costs	\$835,000
10-Year Maintenance Costs w/natural grass	\$515,000
Maintenance Costs with rest every 2 Years	\$320,000
20-Year Total Maintenance + Capital	\$1,435,000
Average Maintenance Cost/Year over 20 Years	\$41,750
Avg. Annual Cost: Capital +Maintenance	\$71,750

Scenario 3	
Initial Major Renovoation Construction Cost	\$500,000
No Refurbishment or Rest	\$0
Annual Maintenance Natural Grass	\$51,500
20 Year Maintenance Costs	\$1,030,000
20-Year Total Maintenance + Capital	\$1,530,000
Average Maintenance Cost/Year over 20 Years	\$51,500
Avg. Annual Cost: Capital +Maintenance	\$76,500

(see pdf document)

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Qualitative version	Synthetic Turf	Natural Grass - Scenario 1 4-year refurbishment cycle	Natural Grass - Scenario 2 Field rest every other year	Natural Grass - Scenario 3 No refurbishment or rest
Current usage intensity: Tior 3	Quality: High	Quality: Poor	Quality: Poor	Quality: Poor
(allows >1000 hrs/yr). Assume 1600	Expense: High	Expense:High	Expense: Moderate	Expense: Moderate
	Usage: High	Usage: High	Usage: High	Usage: High
lleage intensity limited to Tier 2	N/A	Quality: Moderate	Quality: Poor	Quality: Poor
(800-1000 hrs/yr). Assume 1000		Expense: High	Expense: Moderate	Expense: Moderate
		Usage: Moderate	Usage: Moderate	Usage: Moderate
Usage intensity limited to Tier 1	N/A	Quality: High	Quality: High	Quality: Moderate
(sustainable capacity of <800 hrs/year). A ssume 800		Expense: High	Expense: Moderate	Expense: Moderate
		Usage: Low	Usage: Low	Usage: Low

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Quantitative version		Synthetic Turf	Natural Grass - Scenario 1 4-year refurbishment cycle	Natural Grass - Scenario 2 Field rest every other year	Natural Grass - Scenario 3 No refurbishment or rest
Current usage intensity: Tier 3 (allows >1000 hrs/yr). Assume 1600	Annual Maint + Capital Cost	Quality: High \$103,483	Quality: Poor \$87,875	Quality: Poor \$71,750	Quality: Poor \$76,500
	Cost Per Permitted Hour	\$64.68	\$54.92	\$44.84	\$47.81
		Usage: High	Usage: High	Usage: High	Usage: High
	Annual Maint +	N/A	Quality: Moderate	Quality: Poor	Quality: Poor

Natural Grass Itemized Annual Maintenance Costs

Task		Times/ Year	Labor Hours	Rate (avg hourly + benefits)	Subtotal Labor	Supplies	Subtotal Supplies	Equip.	Depreci Per Task	Per Year	Fuel (gal)	Fuel Cost Per Year @ \$1.50/gal	Total
Core Aerate		2	4	\$35.00	\$280.00			Massey	\$50.00	\$100.00	10	\$30.00	\$410.00
						8lbs (per 1000 sq.ft) * 113.256 * 1.58 per lb TriRye Seed Mix =							
Aerate/Seed		2	5	\$35.00	\$350.00	\$1,431/application	\$2,864.00	Massey	\$50.00	\$100.00	10	\$30.00	\$3,344.00
Ton Dress		1	note abov	e is 2 persons a \$35.00	at 2.5 hours ea \$420 0	n Compost@ \$1200	\$1 200 00	Kabota	\$50.00	\$50.00	20	\$60.00	\$1 730 00
Top Dices			*note abov	e is 2 persons a	at 6 hours eac	h (would like to increase this to 2X	(per year)	Topdresser	φ00.00	φ00.00	20	φ00.00	ψ1,700.00
						8lbs (per 1000 sq.ft) * 113.256 * 1.58 per lb TriRye Seed Mix =							
Slice Seed & Ro	I	4	8	\$35.00	\$1,120.00	\$1431/application	\$5,728.00	Massey	\$50.00	\$200.00	10	\$60.00	\$7,108.00
			*note abov	e is 2 persons a	at 4 hours eac	h							
						5 lbs (per 1000) * 113.256 * .28 (per 50 lb bag) =							
Fertilizing		3	5	\$35.00	\$525.00	\$158/application	\$475.65	Massey	\$50.00	\$150.00	10	\$45.00	\$1,195.65
		45	*note abov	e is 2 persons a	at 2.5 hours ea	ach		-		\$0.050.00	10	* ~~~~~~~~	#4 705 00
wowing		45	1	\$35.00	\$1,575.00			Ioro	\$50.00	\$2,250.00	10	\$900.00	\$4,725.00
Field Paint	Sprina	20	4	\$35.00	\$2.800.00	2 (5 gal container/ white)	\$1.980.00	Machine/Truck	\$75.00	\$1.500.00	15	\$450.00	\$6.730.00
	Summer	10	4	\$35.00	\$1,400.00	\$100/5 gal. container	\$990.00	Machine/Truck	\$75.00	\$750.00	15	\$225.00	\$3,365.00
	Fall	20	4	\$35.00	\$2,800.00	\$200	\$1,980.00	Machine/Truck	\$75.00	\$1,500.00	15	\$450.00	\$6,730.00
						\$20 @ 18 lb/Acre							
Humate		1	4	\$35.00	\$140.00	\$840 per application	\$840.00	Massey	\$50.00	\$50.00	10	\$15.00	\$1,045.00
Renovate Plus		1	5 *note abov	\$35.00 e is 2 persons a	\$175.00 at 2.5 hours ea	\$4140 per application	\$4,140.00	Massey	\$50.00	\$50.00	10	\$15.00	\$4,380.00
Irrigation		800,000											\$10,700.00
				(see po	df docu	ment)			Annual Tu Cost per s	u rf Mainten a quare foot gr	ance Tota ass (102,	al 000 sq. ft.)	\$51,462.65 0.50



				Itemized	Annual I	Maintenan	ce Costs	s for Syn	thetic Tu	rf			
									Depre	ciation			
				Rate								Fuel Cost	
		,		(avg								Per Year	
Took		limes/	Labor	hourly +	Subtotal	Supplies	Subtotal	Equip	Dor Took		Fuel	@ \$1 50/gol	Total
Task		fear	nours	Bato	Labor	Supplies	Supplies	⊏quip.	Perlask	Per tear	(gai)	\$1.50/gai	Total
												Por Yoar	
		Times/	Labor	hourly +	Subtotal		Subtotal				Fuel		
Task		Year	Hours	benefits)	Labor	Supplies	Supplies	Equip.	Per Task	Per Year	(gal)	\$1.50/gal	Total
				, í		•••							
Inspect & C	Groom	12	6	\$45.00	\$3,240.00			Massey	\$50.00	\$600.00	10	\$180.00	\$4,020.00
Address G	oals	9	4	\$45.00	\$1,620.00			Hand	\$0.00	\$0.00	0	\$0.00	\$1,620.00
Add infill		1	8	\$45.00	\$360.00	\$8,000.00		Massey	\$500.00	\$500.00	10	\$15.00	\$8,875.00
Water				#05.00	\$0.40.00	\$900.00	\$4,000			\$750	45		\$900.00
Field Paint		6	4	\$35.00	\$840.00	\$185	\$1,000	Machine/ I	\$75	\$750	15	\$225	\$2,815.00
Contractor	Soniooo	Advanced	Prooming	Clooping 8	Popoir @ ¢		vit: La Field						¢2 700 00
Contractors	SOCIMUES	Standard G	Srooming &	Cleaning &	າເອຍສາ (ພູ ສ ລ ¢1 ຂດດ ຣະ	zi ou Fair Vis ving Visit: Lo	n Eigld						\$2,700.00 \$1,800.00
		Stanuaru C		Cleaning	<u>u</u> 91,000 Op					Annual M	aintenanc	• Total	\$22 730 00
											annenano		ΨΖΖ, Ι ΟΟ.ΟΟ
								(see	pdf doc	ument)			
*Industry R	ecommen	ds Groomin <u>o</u>	g every 80-	100 hours o	of play			•					

		Time of	Lohan	Rate (avg	Subtetal		Subtatal		Depreci		Fuel	Fuel Cost Per	
Task		Year	Hours	benefits)	Labor	Supplies	Supplies	Equip.	Per Task	Per Year	(gal)	\$1.50/gal	Total
Core Aerate		1	4	\$35.00) \$140.00			Massey	\$50.00	\$50.00	10	\$15.00	\$205.00
						8lbs (per 1000 sq.ft) *							
						TriBve Seed Mix =							
Aerate/Seed		1	5	\$35.00) \$175.00	\$1.431/application	\$1.432.00	Massev	\$50.00	\$50.00	10	\$15.00	\$1.672.00
			*note above	e is 2 persons	at 2.5 hours ea	ach	. ,	5	·				. ,
Top Dress		1	12	\$35.00	\$420.00	Compost@ \$1200	\$1,200.00	Kabota	\$50.00	\$50.00	20	\$60.00	\$1,730.00
			*note above	e is 2 persons	at 6 hours eac	h (would like to increase this to 2	X per year)	Topdresser					
						8lbs (per 1000 sq.ft) *							
						113.256 * 1.58 per lb							
						TriRye Seed Mix =						•	• · • ·
Slice Seed & Rol	I	1	8 *==========	\$35.00) \$280.00	\$1431/application	\$1,432.00	Massey	\$50.00	\$50.00	10	\$15.00	\$1,777.00
			note above	e is z persons	at 4 nours eac	n							
						5 lbs (per 1000) * 113.256							
			_	• •= •		* .28 (per 50 lb bag) =	• (= • = =		* =* **	* =* **	10	* - - - -	<u> </u>
Fertilizing		1	5 ******	\$35.00) \$175.00 at 0.5 having a s	\$158/application	\$158.55	Massey	\$50.00	\$50.00	10	\$15.00	\$398.55
Mowing		16	note above	e is ∠ persons \$35.00	at 2.5 nours ea	ach		Toro	\$50.00	\$800.00	10	\$900.00	\$2,260,00
Mowing		10	I	ψ00.00	φου.υυ			1010	ψ30.00	φ000.00	10	ψ500.00	ψ2,200.00
Field Paint	Spring	20	4	\$35.00) <u>\$2.800.00</u>	2 (5 gal container/ white)	\$1.980.00	Machine/Truck	\$75.00	\$1.500.00	<u></u>	\$450.00	\$6.730.00
	Summer	8	4	\$35.00	\$1,120.00	(0)	\$792.00	Machine/Truck	\$75.00	\$600.00	15	\$180.00	\$2,692.00
	Fall	20	4	\$35.00	\$2,800.00		\$1,980.00	Machine/Truck	\$75.00	\$1,500.00	15	\$450.00	\$6,730.00
						\$20 @ 18 lb/Acre							
Humate		1	4	\$35.00) \$140.00	\$840 per application	\$840.00	Massey	\$50.00	\$50.00	10	\$15.00	\$1,045.00
Renovate Plus		1	5	\$35.00) \$175.00	\$4140 per application	\$4,140.00	Massey	\$50.00	\$50.00	10	\$15.00	\$4,380.00
			*note above	e is 2 persons	at 2.5 hours ea	ach							
Irrigation		800,000	gallons of v	water per ye	ar (wholesale	e) = 1070 hcfs at the current	rate of 10.00						\$10,700.00
			1000	h hha	ocumo	nt)			Annual Tu	urf Mainten	ance Tot	al	\$31,859.55
			(366	, pui u	ocume				Cost per s	quare foot q	rass (102	.000 sq. ft.)	0.31

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- Develop and Implement synthetic turf conversion plan
- Consider lighting synthetic turf facilities as they are developed
- Provide space for nontraditional sports
- > Work to encourage sports user groups to engage with Department
- Convert elementary and middle school fields in phases to synthetic rectangle/multipurpose fields
- Update agreement with LWSD for conversation of elementary and middle school fields to synthetic turf
- Adopt new and updated sports field use policy



- Final Report with Recommendations will be completed
- Future meeting with Athletic Field Users TBD

Thank You For Your Time

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SiteWorkshop LANDSCAPE ARCHITECTURE

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GREENPLAY

The Leading Edge In Parks, Recreation, And Open Space Consulting



https://www.kirklandwa.gov/PlayItForward

imagine the future of Kirkland's

parks, recreation, and open spaces

24 Athletic Field User Groups Completed Survey Tool

- Boys and Girls Club of King County
- District 9 Little League
 International
- Eastside Huskies Baseball Club
- Eastside Lions Youth Rugby
- Greater Seattle Soccer League
- Juanita High School
- Juanita Lacrosse
- KB Fastpitch

- Kirkland American Little League
- Kirkland Baseball Commission
- Kirkland FC
- Kirkland Merchants
- Kirkland National Little League
- Kirkland Steelers
- Lake Washington Girls Lacrosse
 Association
- Lake Washington High School

- Lake Washington Lacrosse
- OL Reign Academy
- Other (please specify) Personal
- Puget Sound Senior Baseball League
- Puget Sound Senior Cricket
 Association
- Puget Sound Senior Softball
 Association
- Super 11 Cricket Academy
- Washington Ladyhawks 18 Gold -Hirai/Simpson

• Key findings included need to improve communication



COMMUNICATION

There is some room for improvement to better leverage communication efforts and information dissemination about parks and recreation to further create awareness in Kirkland. 23% of overall respondents indicated that communication effectiveness is not effective, with an average score of 3.3 (on a scale of 1 to 5).

 Little interest/support in building new athletic fields or converting to synthetic turf (or developing more niche facilities for cricket, futsal, rugby, etc.).



FUTURE NEEDS

New parks in the North area of Kirkland and an indoor aquatics center are the most important needs for improvement for Kirkland Parks and Community Services over the next 5 to 10 years. Little interest/support in building new athletic fields or converting to synthetic turf (or developing more niche facilities for cricket, futsal, rugby, etc.) exists.

Frequency of Use By Invite Sample

Q: Prior to the current CDC guidelines and restrictions on accessing parks and recreational facilities that were put into effect for COVID-19, how frequently have you and/or a member of your household used or participated in any of the following facilities, services or programs provided by Kirkland Parks and Community Services? by "Invite Sample"

At least once a week A few times a month At least once a month A few times a year Have not visited

Rating Calegory	Avg.	n=	1&2	Percent Responding: 3	4	& 5
City parks	2.1	639	43% 66%	15%	18%	
Dog parks	4.2	623	16%	5%	65%	79%
Athletic rectangle fields (soccer, football, etc.)	4.3	618	11%	5%	6-3%	83%
Athletic diamond fields (baseball, softball, etc.)	4.4	620	9%	3%	71%	87%
Tennis courts	4.4	625	6%	5%	66%	88%
Community Centers	4.5	622	6%	4%	66%	²⁴⁵⁴ 90%
Programs	4.5	618	6%	4%	69%	91%
Basketball courts	4.5	616	7%	3%	73%	90%
Peter Kirk Pool	4.6	622	6%	1%	74%	92%
Rentals (Community Center, pavilions, etc.)	4.8	617	1%	1%	82%	985
Volleyball courts	4.8	618	2%	2%	86%	979
Pickleball courts	4.8	617	3%	1%	91%	969



Deserved Deserved in a

Frequency of Use By Open Link Sample

Q: Prior to the current CDC guidelines and restrictions on accessing parks and recreational facilities that were put into effect for COVID-19, how frequently have you and/or a member of your household used or participated in any of the following facilities, services or programs provided by Kirkland Parks and Community Services? by "Open Link Sample"

At least once a week A few times a month At least once a month A few times a year Have not visited

Rating Calogory	Avg	n=	182	3	4	& 5
City parks	1.9	2,110	51% 73%	12%	15%	
Athletic diamond fields (baseball, softball, etc.)	4.0	2,084	18%	5%	57%	77%
Athletic rectangle fields (soccer, football, etc.)	4.1	2,077	17%	6%	56% 2	¹¹⁹ 77%
Dog parks	4.2	2,091	17%	4%	64%	79%
Community Centers	4.3	2,081	9%	5%	58%	20% <mark>87%</mark>
Programs	4.4	2,077	7%	3%	61%	^{20%} 91%
Peter Kirk Pool	4.5	2,090	8%	2%	67%	20% 90%
Tennis courts	4.5	2,075	6%	5%	69%	89%
Basketball courts	4.5	2,058	7%	4%	72%	89%
Pickleball courts	4.6	2,080	8%	2%	83%	90%
Rentals (Community Center, pavilions, etc.)	4.8	2,078	1%	1%	80%	98%
Volleyball courts	4.8	2,072	2%	2%	86%	96%

Increase Usage

Q: What are the most important areas that, if addressed by Kirkland Parks and Community Services, would increase your use of parks and recreation facilities, programs and services? (Check all that apply) by "Source"

	Overall		Invite Sample		Open Link	
Year-round restrooms		57%	6	0%		57%
Recreation Center or Indoor Aquatic Complex	36%		35%		37%	
Better lighting (parks, trails, and facilities)	36%		38%		35%	
Better condition/maintenance of parks/facilities	26%		26%		26%	
Improved communication about offerings	24%		34%		21%	
More parking	23%		29%		21%	
More facilities or amenities	22%		21%		22%	
Improved safety and security	17%		18%		16%	
WiFiconnectivity	14%		17%		13%	
Better signage/wayfinding	13%		14%		13%	
Expanded hours of operation	13%		17%		12%	
Better field playability conditions	11%		11%		11%	
More synthetic turf fields	9%		7%		10%	
Lower pricing/user fees	9%		14%		8%	
Better access for persons with disabilities	9%		10%		8%	
More programs	7%		7%		7%	
Better customer service/staff knowledge	3%		4%		3%	
Transportation for self or your family participating in programs	2%		3%	1	2%	
n=	2,598		605	Ĩ	1,993	



Importance of Current Facilities and Amenities By Average

		Overall			Invite Sample			Open Link		
Parks and open spaces	n=2,574		4.7	n=616		4.7	n=1,958		4.7	
Trails in parks and/or city trail systems	n=2,576		4.7	n=619		4.7	n=1,957		4.6	
Restrooms in parks	n=2,573		4.4	n=615		4.4	n=1,958		4.4	
lifeguarded beaches	n=2,535	3.1		n=600	3.1		n=1,935	3.1		
Community gardens	n=2,527	3.1		n=584	3.1		n=1,933	3.0		
Duldoor pool	n=2,533	3.0		n=602	3.0		n=1,931	3.0		
Community Centers	n=2,533	2.9		n=603	2.9		n=1,930	2.9		
Rectangle athletic fields (soccer, football, etc.)	n=2,508	2.8		n=591	2.8		n=1,917	2.8		
0ff-leash dog areas	n=2,537	2.7		n=601	2.6		n=1,936	2.7	1 - No 2	t at all importa
ennis courts	n=2,515	2.6		n=584	2.6		n=1,921	2.5	3	
Diamond athletic fields (baseball, softball, etc.)	n=2,513	2.4		n=585	2.3		n=1,918	2.4	5 - Ve	ry important
Synthetic turf fields	n=2,512	2.3		n=591	2.2		n=1,921	2.3		
rickleball courts	n=2,512	2.2		n=583	2.0		n=1,919	2.2		
lasketball courts	n=2,524	2.1		n+601	2.3		n=1,923	2.1		
/olleyball courts	n=2,512	2.1		n=596	2.1		n=1,914	2.0		

Q: How important are the following facilities and services are to your household? FACILITIES AND AMENITIES by "Source"

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Most Important Needs for Improvement By Average

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Q: What are the most important needs for improvement for Kirkland Parks and Community Services over the next 5 to 10 years? by "Source"

		Overall		Invite Sample		Open Link	
Indoor aquatics center	n=2,078	3.5	n=562	3.5	n=1,516	3	.5
New parks in the North area of Kirkland	n=1,821	3.4	n=496	3.5	n=1,323	3.	4
Indoor recreation center	n=2,043	3.3	n-545	3.4	n=1,498	3.3	6
New parks in my neighborhood	n=2,081	3.3	n=550	3.4	n=1,531	3.2	
More free or non-fee based special events and activities	n=1,995	3.2	n=537	3.4	n=1,458	3.2	
Splash pads and other water play features	n=1,999	3.0	n=534	3.0	ri=1,465	3.0	
New outdoor aquatic center	n=1,982	2.7	n=530	2.7	n=1,452	2.6	
More culturally-specific special events and activities	n=1,897	2.6	n=512	2.8	n=1,385	2.6	
Build new or convert existing athletic fields to synthetic turf	n=1,751	2.3	n=485	2.2	n=1,266	2.3	1 - Not at all important 2
Disc golf courses	n=1,913	2.1	n=523	2.2	n=1,390	2.1	8
Develop facilities for cricket, futsal, rugby, and lacrosse	n=1,846	2.0	n+508	2.0	rr=1,338	2.0	5 - Very Important



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Top 3 Priorities

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Q: Which three facilities/amenities or programs/services are the highest priorities to your household? Top 15 by "Source"



Needs Met of Current Facilities and Amenities By Average

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Q: How do you think they are currently meeting the needs of the community? FACILITIES AND AMENITIES by "Source"

		Verell	Q 0: Source				1 - Not at all
		2verail	Invi	te Sample	0	pen Link	3
Parks and open spaces	n=2,061	3.9	n=502	4.1	n=1,559	3.9	4
Diamond athletic fields (baseball, softball, etc.)	n=1,078	3.8	n=283	3.9	n=795	3.8	5 - Completely
Trails in parks and/or city trail systems	n=2,009	3.8	n=488	4.0	n=1,521	3.7	
Volleyball courts	n=762	3.6	n=200	3.8	n=562	3.6	
Rectangle athletic fields (soccer, football, etc.)	n=1,068	3.6	n=273	3.8	n=795	3.5	
Lifeguarded beaches	n=1,362	3.6	m=349	3.7	n=1,013	3.5	
Tennis courts	n=1,047	3.6	m=274	3.7	n=773	3.5	
Community Centers	n=1,067	3.5	n=279	3.7	n=808	3.5	
Basketball courts	n-822	3.5	n=231	3.6	n~591	3.5	
Outdoor pool	n=1,350	3.4	n=343	3.6	n=1,007	3.4	
Community gardens	n=1,052	3.3	n=272	3.4	n=780	3.3	
Restrooms in parks	n=1,912	3.3	n=465	3.5	n=1,447	3.2	
Off-leash dog areas	n=1,222	3.1	n=304	3.3	n=918	3.0	
Pickleball courts	n=740	3.1	n=178	3.3	n=562	3.0	
Synthetic turf fields	n=772	3.0	n=202	3.1	n=670	2.9	



Most Important Needs for Improvement By Average

Q: What are the most important needs for improvement for Kirkland Parks and Community Services over the next 5 to 10 years? by "Source"

		Overall		Invite Sample		Open Link	
Indoor aquatics center	n=2,078	3.5	n=562	3.5	n=1,516	3.5	
New parks in the North area of Kirkland	n=1,821	3.4	n=498	3.5	n=1,323	3.4	
indoor recreation center	n=2,043	3.3	n=545	3.4	n=1,498	3.3	
New parks in my neighborhood	n=2,081	3.3	n=550	3.4	n=1,531	3.2	
More free or non-fee based special events and activities	n=1,995	3.2	n=537	3.4	n=1,458	3.2	
Splash pads and other water play features	n=1,999	3.0	n=534	3.0	m=1,465	3.0	
New outdoor aquatic center	n=1,962	2.7	n=530	2.7	n=1,452	2.6	
More culturally-specific special events and activities	n=1,897	2.6	n=512	2.8	n=1,385	2.6	
Build new or convert existing athletic fields to synthetic turf	n=1,751	2.3	n=485	2.2	n=1,266	2.3 1 · Not	t at all important
Disc golf courses	n=1,913	2.1	n=523	2.2	n=1,390	2.1 4	
Develop facilities for cricket, futsal, rugby, and lacrosse	n=1,846	2.0	n=508	2.0	n=1,338	2.0	ry important
						6	

Needs Assessment Survey

Most Important Needs for Improvement By Invite Sample

Q: What are the most important needs for improvement for Kirkland Parks and Community Services over the next 5 to 10 years? by "Invite Sample"

Rating Calegory	Avg.	n=	182		1	Percent Responding: 3	Percent Responding: 3		
New parks in the North area of Kirkland	3.5	498	8% 169	24%		20%	34%	25	56%
Indoor aquatics center	3.5	562	199	26%		15%	35%	24	59%
Indoor recreation center	3.4	545	11% 15% 26%			21%	26%	- 278	53%
More free or non-fee based special events and activities	3.4	537	1396 13	× 25%		24%	24%	20%	50%
New parks in my neighborhood	3.4	550	128 178 29%			18%	28%	205	54%
Splash pads and other water play features	3.0	534	1295	24% 36%		23%	18%	25% 41	%
More culturally-specific special events and activities	2.8	512	16%	27% 43%		21%	15%	35%	6
New outdoor aquatic center	2.7	530	19%	29% 48	%	21%	15% 1	31%	S. Mater all months
Disc golf courses	2.2	523	20%	44%	63%	18%	3% <mark>12% 1</mark>	19%	2 2
Build new or convert existing athletic fields to synthetic turf	2.2	485	17%	47%	64%	16%	13%	21%	4
Develop facilities for cricket, futsal, rugby, and lacrosse	2.0	508	21%	46%	66%	22%	an 129	6	

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Needs Assessment Survey

Most Important Needs for Improvement By Open Link Sample

Q: What are the most important needs for improvement for Kirkland Parks and Community Services over the next 5 to 10 years? by "Open Link Sample"

Rating Calegory	Avg.	n=	182	Percent Responding: 3	4 & 5
Indoor aquatics center	3.5	1,516	9% 10% 25%	20%	34% 21% 55%
New parks in the North area of Kirkland	3.4	1,323	9% 15% 25%	23%	29% 23% 52%
Indoor recreation center	3.3	1,498	11% 14% 25%	27%	21% 27% <mark>48%</mark>
New parks in my neighborhood	3.2	1,531	12% 18% 30%	25%	25% 20% 45%
More free or non-fee based special events and activities	3.2	1,458	128 16% 27%	30%	19% 23% 43%
Splash pads and other water play features	3.0	1,465	12% 24% 36%	23%	19% 22% 41%
New outdoor aquatic center	2.6	1,452	17% 32% 49%	22%	16% 10% 29%
More culturally-specific special events and activities	2.6	1,385	175 31% 48%	25%	17% 27%
Build new or convert existing athletic fields to synthetic turf	2.3	1,266	10% 42% 58%	20%	11% 22% 2
Disc golf courses	2.1	1,390	20% 47% 67%	19%	14%
Develop facilities for cricket, futsal, rugby, and lacrosse	2.0	1,338	22% 48% 70%	18%	12%

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