

Surrey's GIS Projection Model: How to Estimate Development Unit and Population Figures



The Building Inventory – Methodology

- The Surrey Population Model contains two major data components:
 - The GIS data component which is an inventory of all buildings in the city; and
 - The non-GIS component that includes existing and projected (2041) unit, population and employment figures.





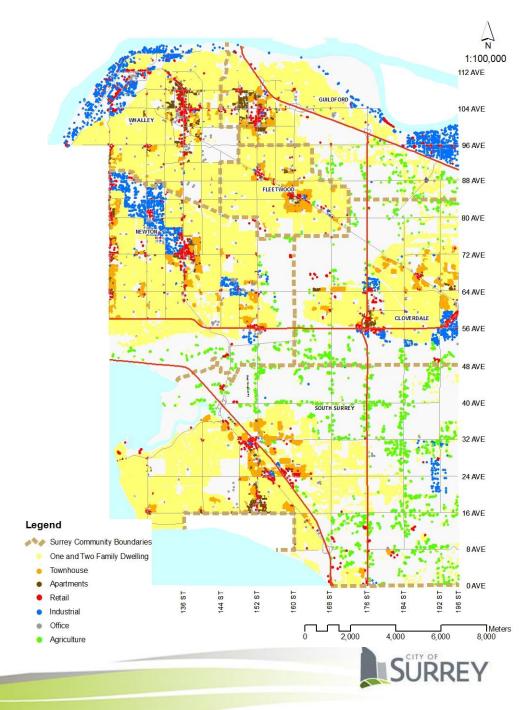
The Building Inventory – Methodology

- The GIS building inventory was created using a combination of data sources that include:
 - BC Assessment Authority Data
 - Surrey Building Permit Information (Amanda)
 - City of Surrey Secondary Suite By-Law Enforcement Data
 - The latest GIS Orthophoto Imagery
 - City of Surrey GIS Cadastre (lot and address) Information
 - Statistics Canada Census (matching undercount and average household size).





As of December 2012, there are 169,600 residential units with a total 367.9 million sqft in Surrey. The average units size is 2,169 sqft. There is also 106.37 million sqft of nonresidential building space in Surrey.



Attribute Information

building in Surrey.

Column Heading	Attribute Information	<u>Column Heading</u>	Attribute Information	Column Heading	Attribute Information
OLDER NO	Amanda Folder Number		Assembly		Aboriginals
DDRESS	Property Address	_	Automotive Services		Со-ор
EVELOPMENT	Nonresidential		Automotive Storage		Emergency Shelter
YPE	Residential		Education		Family
	Assembly		Farm Related	SPECIAL HOUSING	Mental Health Addictions
	Coach House		Fire Station	ТҮРЕ	Multi Types
	Education		Govt Related		Seniors
	Farm Related		Gravel Storage		Special Needs
	Govt Related		Health Related		Transition-Supportive
	Health Related		Hotel		Not Applicable
	High Rise Apartment		Library	SECONDARY SUITE	Authorized
EVELOPMENT UBTYPE	Industrial	NONRESIDENTIAL	Lumber Yard	TYPE	None
	Low Rise Apartment	SUBTYPE	Manufacturing		Unauthorized
	Mobile House	JUDITEL	Office	SECONDARY SUITE	Yes
	Office		Outdoor Metal Storage	FEE PRE 2000	No
	One Family Dwelling		Post Office		Yes
	Recreational Club House		Rail Yard	TRE_2000	No
	Retail		Recreation Related	CONSTRUCTION YEAR	Year of Building Construction
	Secondary Suite		Recreational Club House	BUILDING PERMIT	Month
	Townhouse		Retail	ISSUE MONTH	Not Applicable
	Two Family Dwelling		Shopping centre	FLOOR AREA	Building Floor Area
			Transit parking	CONSTRUCTION	
There are 18 variables			Truck Storage	VALUE	Construction Value of Building
			Utilities	DWELLINGS	Number of Residential Dwellin
			Warehouse	AVERAGE	Average Household Size by
that cont	tain		Market Rental	HOUSEHOLD SIZE	Community
		RENTAL TYPE	Mixed	POPULATION	Population Within Each Buildin
informat	ion for each		Non-Market Rental	EMPLOYMENT	Employment Within Each Build

Not Rented



- A typical single family neighbourhood containing a school and surrounded by multifamily.
- The map also contains Surrey's building footprints.
- The second map (bottom) illustrates a closer look at a single family neighbourhood. secondary suites are digitized within the lot but outside the building foot print.



- The building inventory contains secondary suite information.
- Although not complete, Planning and Development has compiled a list of over 20,000 address that come from the Surrey Bylaw Department.
- This data is included in the unit and population totals.
- They are kept as separate point features within the model which distinguishes them from the main single family unit.



- The building inventory also contains multifamily units (townhouses and apartments)(top).
- Only one point feature per building is used to identify multifamily.
- Each multifamily point feature may identify many units per building.



- Surrey engineering purchases orthophotos on an annual basis (*bottom*).
- Orthophotos are also used to verify and correct the building inventory.
- It also ensures that the point feature are placed correctly in the centroid of the building footprint.





- Surrey's building inventory also contains a non-residential component.
- The data does not contain business information. As with residential, a single point feature will only identify the building along with floor space and estimated total employment.
- Floor space and average worker density ratios are used to estimate employment. This is joined to business license information to verify employment.



Surrey's Business Directory

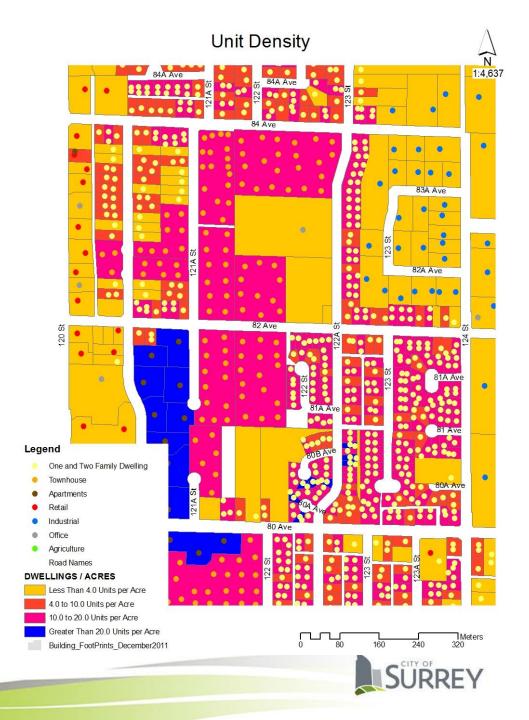
		Googl	e Translate	Translation E	xplanatio	n Quick Li	nks C	Contact Surrey				
CITY OF					Care	ers Media Roc	om <u>Maps 8</u>	COSMOS				
	Y				[search		٩				
the future live	s here.											
CITY SERVICES	FOR BUSINESS	TURE & BYLAV	VS, POL	ICIES, CITY	GOVER		ANS & STR	ATEGIES				
			CENSE									
Home > For Business > Data	& Key Documents > Data > Business	Directory										
Business Directory	У			E	or Bu	siness Menu	1					
Search for existing businesses i				E	BUSINES	S LICEN SING						
Surrey. Enter the name in the fie search for businesses by catego	ory. The directory	-		ſ		EY DOCUMENTS						
features names, addresses and information for licensed business			-		DATA							
Download the full directory throu	gh the monthly		the l			INESS LICENSING		5				
business license list.				1		ELOPMENT STAT						
					RES	IDENTIAL DEVEL	OPMENT STA	TISTICS				
Name: <a> starts with conta						SECTORS						
Name: Starts with Conta					BUS	INESS DIRECTOR	RY					
	February_2012_Full_BL_Directory.xlsx [Read-Only]		с	DE					r I	M	- N	= >
ant		D	C	DE	E E	G	н і	J	IN I			
ent	CITY OF	Economic Developmen			F	G	H I	J				
erre		Economic Developmen City of Surrey 14245 - 56 Avenue			F	Busi	iness l	.icense D	irectory		, A	
es		Economic Developmen City of Surrey 14245 - 56 Avenue Surrey, BC V3X 3A2			F	Busi			•		N	
es	SURREY the future lives here.	Economic Developmen City of Surrey 14245 - 56 Avenue Surrey, BC V3X 3A2 Ph: 604-591-4128	nt Office	•			F	ebruary 2	20, 2012		N	
es stment	SCHY OF SCHY OF He future lives here. 1 2 Business Name 99231	Economic Developmen City of Surrey 14245 - 56 Avenue Surrey, BC V3X 3A2 Ph: 604-591-4128 Products or Services Order by Mail	nt Office	9 10use V Road V 7088 191 St	Postal - V4N0B4	Phone Emplo 6045763966	yees • Towr • 1 CTC	ebruary 2	20, 2012 ence Issue Date • 6-14-11 0:00	Τον	m Centre Codes	
es stment	SURREY He future lives here. Survives Name Survives Name Survives Name Survives Name Survives Name Survives Name	Economic Developmen City of Surrey 14245 - 56 Avenue Surrey, BC V3X 3A2 Ph: 604-591-4128 Products or Services Order by Mall Trucking & Cartage	Unit VIII H	Plouse Road 7088 191 St 6226 128A St	Postal v V4N0B4 V3X3L9	Phone Emplo 6045763966 6045521605	yees • Towr • 1 CTC 1 NTC	ebruary 2 Business Type V Lic Home Occupation Home Occupation	20, 2012 cence issue Date • 6-14-11 0:00 12-05-11 0:00	Тоу	Cloverdale	
es stment	2 Euriness Name 2 9223 3 9223 3 9223 4 Surjit Mehanger 2 12 Name 2 Na	Economic Developmen City of Surrey 14245 - 56 Avenue Surrey, BC V3X 3A2 Ph: 604-591-4128 Products or Services Order by Mail	Unit 💌 H	■ Iouse ▼ Road ▼ 7088 191 St 6226 128A St 13753 72 Ave	Postal - V4N0B4 V3X3L9 V3W2P2	Phone Emplo 6045763966	yees • Towr • 1 CTC	ebruary 2	20, 2012 ence Issue Date • 6-14-11 0:00	Τον		
es stment [#]	CITY OF He fulure lives here. He fulure lives here. Sources Name Sources Nam Sources Name Sourc	Economic Developmen City of Surrey 14245 - 56 Avenue Surrey, BC V3X 3A2 Ph: 604-591-4128 Products or Services Order by Mail Trucking & Cartage Hairdsessing Wholesaler	Unit • H 37 1008 7 101	00005 Road 7008 1915t 6226 128A St 13753 72 Ave 7548 120 St 12815 85 Ave	Postal - V4N084 V3X319 V3W2P2 V3W3N1 V3W0K8	Phone Emplo 6045763966 6045521605 6045977766 604534057 6045946862	yees • Towr • 1 CTC 1 NTC 1 NTC 2 NTC 1 NTC 1 NTC	Ebruary 2 Business Type • Lie Home Occupation Home Occupation Commercial/Indust Commercial/Indust	Co, 2012	CTC FTC GTC NTC	Cloverdale Fleetwood Guildford Newton	
es stment [#]	CITY OF CONTRECTION Ine future lives here. Ine future lives here. Sexast	Economic Developmen City of Surrey 14245 - 56 Avenue Surrey, BC V3X 3A2 Ph: 604-591-4128 Products or Services Order by Mail Trucking & Cartage Hair Salon/Barber Hair Salon/Barber Hairdressing Wholesaler Esthetician	Unit Vifice Unit Vifice 37 100B 7	Road Image: Control of the second secon	Postal V4N084 V3X3L9 V3W2P2 V3W3N1 V3W0K8 V3S1E9	Phone Employ 6045763966 6045521605 6045577766 6045434057 6045948662 6045578037	Yees • Towr • 1 CTC 1 NTC 1 NTC 2 NTC 1 NTC 1 NTC 5 CTC	ebruary 2 Business Type • Lid Home Occupation Commercial/Indust Commercial/Indust Commercial/Indust	Co, 2012 6-14-11 0:00 12-05-11 0:00 9-26-11 0:00 9-26-11 0:00 9-26-11 0:00 9-22-11 0:00	CTC FTC GTC NTC SCC	Cloverdale Fleetwood Guildford Newton Surrey City Centre	
es stment [#]	CITY OF He fulure lives here. He fulure lives here. With the hanger Surgit Mehanger Surgit Mehanger Surgit Main Cut Beauty Salon Surgit Main Cut Beauty Salon Surgit Anappi Hair Surgit Anappi Hair Surgit Main Surgit Surgit Main Surgit Surgit Main Surgit	Economic Developmen City of Surrey 14245 - 56 Avenue Surrey, BC V3X 3A2 Pr: 604-591-4128 Product or Services Order by Mail Trucking & Cartage Hair Salon/Barber Hairdressing Wholesaler Esthetician Restauration Deli Take Out	Unit • H 37 100B 7 101 104	Road Road P 7008 191 St 5226 128A St 13733 72 Ave 7548 120 St 12815 85 Ave 12815 85 Ave 18406 664 Ave 13462 72 Ave 18402 No	Postal ~ V4N084 V3X319 V3W2P2 V3W3N1 V3W08 V3S1E9 V3W2N8	Phone Emplo 6045763966 6045521605 604597766 6045937766 6045434057 60453840862 6045758037 6045738037 604573311 604579311	yees V Towr V 1 CTC 1 NTC 1 NTC 2 NTC 1 NTC 5 CTC 2 NTC	ebruary 2 Busines Type Lide Home Occupation Home Occupation Commercial/Indust Commercial/Indust Commercial/Indust	CO, 2012	Tov CTC FTC GTC NTC SCC SSTC	Cloverdale Fleetwood Guildford Newton Surrey City Centre South Surrey	
es stment [#]	Image: City of Program (Inclusion) Image: City of Program (Inclusion) 2 Butiness Name Image: City of Program (Inclusion) 3 9231 Image: City of Program (Inclusion) 4 Supplit And Program (Inclusion) Image: City of Program (Inclusion) 5 #1 Ango: Program (Inclusion) Image: City of Program (Inclusion) 7 #1 Image: City of Program (Inclusion) Image: City of Program (Inclusion) 9 #1 Sub Garden Ltd Image: City of Program (Inclusion) 9 #1 Sub Garden Ltd Image: City of Program (Inclusion)	Economic Developmen City of Surrey 14245 - 56 Avenue Surrey, BC V3X 3A2 Pr: 604-591-4128 Product or Services Order by Mail Trucking & Cartage Hair Salon/Barber Hairdressing Wholesaler Esthetician Restauration Deli Take Out	Unit • H 37 1008 7 101	Road Road P 7008 191 St 5226 128A St 13733 72 Ave 7548 120 St 12815 85 Ave 12815 85 Ave 18406 664 Ave 13462 72 Ave 18402 No	Postal • V4N084 V3X319 V3W2P2 V3W3N1 V3W0K8 V3S1E9 V3W2N8 V3W2N8	Phone Employ 6045763966 6045521605 6045577766 6045434057 6045948662 6045578037	Yees • Towr • 1 CTC 1 NTC 1 NTC 2 NTC 1 NTC 1 NTC 5 CTC	ebruary 2 Business Type • Lid Home Occupation Commercial/Indust Commercial/Indust Commercial/Indust	Co, 2012 6-14-11 0:00 12-05-11 0:00 9-26-11 0:00 9-26-11 0:00 9-26-11 0:00 9-22-11 0:00	CTC FTC GTC NTC SCC	Cloverdale Fleetwood Guildford Newton Surrey City Centre	
es stment [#]	CITY OF CITY	Economic Developmen City of Surrey 14245 - 56 Avenue Surrey, BC V3X 3A2 Ph: 604-591-4128 Product or Services Order by Mail Trucking & Cartage Hair Salon/Barber Hair Grasing Restaurant - Deli Take Out Laundromat, Tanning Salon Hairdressing Recreational Facility	Unit • H 37 1008 7 1011 104 8113	Rose Road 7088 191 5t 626 128A 5t 13753 72 Ave 7548 120 5t 12815 85 Ave 12405 64 Ave 13768 72 Ave 13768 84 Ave 13768 84 Ave 13768 84 Ave 13768 84 Hing George 6468 King George 6468	Postal • V4N084 V3X3L9 V3W2P2 V3W3N1 V3W0K8 V3SL9 V3W2K8 V3W2K8 V4N0Y3	Phone Emplo 604576396 604521005 6045977766 604534007 604534007 604534007 604573931 604573807 6045729311 6045121749 6045824757 604582475	yees • Towr • 1 CTC 1 NTC 1 NTC 2 NTC 1 NTC 5 CTC 2 NTC 1 NTC 1 NTC 1 NTC	ebruary 2 Business Type Like Home Occupation Home Occupation Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust	CO, 2012 6-14-11.0:00 12-05-11.0:00 3-29-11.0:00 3-29-11.0:00 3-29-11.0:00 3-10-11.0:00 5-10-11.0:00 11-17-11.0:00	Tov CTC FTC GTC NTC SCC SSTC	Cloverdale Fleetwood Guildford Newton Surrey City Centre South Surrey	
es stment [#]	CHYP OF He future lives here. Weiness Name With Wehanger Surjit Mehanger You have Canada Ltd Happy Hair Cit Beauty Salon Hangy Hair Cit Happy Hair Cit Happy Hair Cit Hangy Haris Cit Haris Hangy Haris Cit Haris Haris Haris Cit Haris Haris Cit Haris Haris Cit Haris Cit	Economic Developmen City of Surrey 14245 - 56 Avenue Surrey, BC V3X 3A2 Ph: 604-591-4128 Product or Services Order by Mail Trucking & Cartage Hair Salon/Barber Hair Gasnig Wholesaler Esthetician Restaurant - Deli Take Out Laundromat, Tanning Salon Hairdressing Recreational Facility Manufacturer - Cabinets	Unit • H 37 1008 7 101 104 8113 104	Road Road 7088 191.5t 6226 128.4s 13733 72.4ve 7348 120.5t 12415 85.4ve 13536 64.Ave 13536 88.4ve 13555 Fraser Hwy 6468 King George 6238 1385	Postal V4N084 V3X3L9 V3W3X19 V3W084 V3W084 V3W084 V3W084 V3W024 V3W023 V3W023 V3W223 V3X1E6	Phone Emploid 6045763966 6045521605 6045521605 6045977766 6045340407 60453780807 60453739311 60453793311 604538729 60453812749 60453847457 60453847457	Yees ▼ Towr ▼ 1 CTC 1 NTC 1 NTC 2 NTC 1 NTC 5 CTC 2 NTC 1 NTC 1 NTC 1 FTC 1 NTC 1 NTC 1 NTC	ebruary 2 Business Type Like Home Occupation Home Occupation Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust	CO, 2012 614-11.000 5-05-11.000 5-26-11.000 5-26-11.000 5-26-11.000 5-10-11.000 5-10-11.000 5-10-11.000 5-10-11.000 1-10-21.1000 1-11-71.11.000 1-12-51.10.00	Tov CTC FTC GTC NTC SCC SSTC	Cloverdale Fleetwood Guildford Newton Surrey City Centre South Surrey	
es stment # iness cipal	CITY OF CARACTERISTIC CONTINUES AND CARACTERISTICS AN	Economic Developmen City of Surrey 14245 - 56 Avenue Surrey, BC V3X 3A2 Ph: 604-591-4128 Product or Services Order by Mail Trucking & Cartage Hair Salon/Barber Hairdressing Restaurant - Deli Take Out Laundromat, Tanning Salon Hairdressing Recreational Facility Manufacturer - Cabinets General Cont.	Unit • H 37 1008 7 101 104 8113 104 6	Road Road 7088 191 51 6226 128A 51 7383 72 Ave 7346 120 51 1261 83 Ave 13402 64 Ave 13402 72 Ave 13576 88 Ave 13575 73.84 Ave 13576 84.84 Ave 13865 54.44 Ave	Postal • V4N084 V3X3L9 V3W2P2 V3W3N1 V3W0K8 V3W2N8 V3W2N8 V3W2N8 V3W2N8 V3W2X8 V3W2X16 V3X1E6 V3S6R4	Phone Emploit 6045763966 604521605 604521605 604597766 6045340057 6045946862 6045946862 604578331 604587795 604512149 6045817457 604581425 6045814255 60458123	Yees • Towr • 1 CTC 1 NTC 1 NTC 2 NTC 2 NTC 1 NTC 5 CTC 2 NTC 1 NTC 1 NTC 1 FTC 1 NTC 1 NTC 1 CTC 1 CTC 1 CTC 1 CTC 1 CTC 1 CTC 1 NTC 1 CTC 1 NTC 1 CTC 1 NTC 1 CTC 1 NTC 1 NTC 1 CTC 1 NTC 1 CTC 1 NTC 1 CTC 1 NTC 1 CTC 1 NTC 1 CTC 1 NTC	ebruary 2 Business Type L L Home Occupation Home Occupation Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust	200, 2012 6:14:11:00 12:05:11:000 3:29:11:000 3:29:11:000 3:29:11:000 3:10:11:000 1:10:011:000 1:10:011:000 1:10:011:000 1:10:011:000 1:12:11:000	Tov CTC FTC GTC NTC SCC SSTC	Cloverdale Fleetwood Guildford Newton Surrey City Centre South Surrey	
es stment # iness cipal	Image: Characterized State The future lives here. Image: Chare The future lives here. <td>Economic Developmen City of Surrey 14245 - 56 Avenue Surrey, BC V3X 3A2 Ph: 604-591-4128 Product or Services Order by Mail Trucking & Cartage Hair Salon/Barber Hair Gasning Wholesaler Extentician Restaurant - Deli Take Out Laundromat, Tanning Salon Hairdressing Recreational Facility Manufacturer - Cabinets General Cont. Equipment Lessing</td> <td>Unit • H 37 1008 7 101 104 8113 104</td> <td>Road Road 7088 191 51 6226 128A 51 13735 72 Ave 73 7348 1205 1215 13763 72 Ave 73 13840 64 Ave 13426 13535 Fraser Hwy 6466 12535 Fraser Hwy 6466 6238 1385 63A Ave 13806 54A Ave 3237<king george<="" td=""></king></td> <td>Postal ▼ V4N084 V3X319 V3W2P2 V3W288 V3S1E9 V3W2N8 V3W2N8 V3W358 V3W423 V3W423 V3W423 V3W423 V3X1E6 V3S6R4 V4P187</td> <td>Phone Emplo 604375366 6045521605 6043572766 6045977766 60435424057 60453234057 60453739037 6045323311 604539279 6045312749 60453817475 60453043223 6045824255 6045320329</td> <td>Yees Towe 1 CTC 1 NTC 1 STC</td> <td>ebruary 2 Busines Type 2 Home Occupation Commercial/indust Commercial/indust Commercial/indust Commercial/indust Commercial/indust Commercial/indust Commercial/indust Commercial/indust Commercial/indust Commercial/indust</td> <td>CO, 2012 614-11.0:00 5-10-11.0:00 9-26-11.0:00 9-26-11.0:00 9-22-11.0:00 9-12-11.0:00 5-10-11.0:00 5-10-11.0:00 1-12-511.0:00 5-12-11.0:00 5-12-11.0:00 5-12-11.0:00</td> <td>Tov CTC FTC GTC NTC SCC SSTC</td> <td>Cloverdale Fleetwood Guildford Newton Surrey City Centre South Surrey</td> <td></td>	Economic Developmen City of Surrey 14245 - 56 Avenue Surrey, BC V3X 3A2 Ph: 604-591-4128 Product or Services Order by Mail Trucking & Cartage Hair Salon/Barber Hair Gasning Wholesaler Extentician Restaurant - Deli Take Out Laundromat, Tanning Salon Hairdressing Recreational Facility Manufacturer - Cabinets General Cont. Equipment Lessing	Unit • H 37 1008 7 101 104 8113 104	Road Road 7088 191 51 6226 128A 51 13735 72 Ave 73 7348 1205 1215 13763 72 Ave 73 13840 64 Ave 13426 13535 Fraser Hwy 6466 12535 Fraser Hwy 6466 6238 1385 63A Ave 13806 54A Ave 3237 <king george<="" td=""></king>	Postal ▼ V4N084 V3X319 V3W2P2 V3W288 V3S1E9 V3W2N8 V3W2N8 V3W358 V3W423 V3W423 V3W423 V3W423 V3X1E6 V3S6R4 V4P187	Phone Emplo 604375366 6045521605 6043572766 6045977766 60435424057 60453234057 60453739037 6045323311 604539279 6045312749 60453817475 60453043223 6045824255 6045320329	Yees Towe 1 CTC 1 NTC 1 STC	ebruary 2 Busines Type 2 Home Occupation Commercial/indust Commercial/indust Commercial/indust Commercial/indust Commercial/indust Commercial/indust Commercial/indust Commercial/indust Commercial/indust Commercial/indust	CO, 2012 614-11.0:00 5-10-11.0:00 9-26-11.0:00 9-26-11.0:00 9-22-11.0:00 9-12-11.0:00 5-10-11.0:00 5-10-11.0:00 1-12-511.0:00 5-12-11.0:00 5-12-11.0:00 5-12-11.0:00	Tov CTC FTC GTC NTC SCC SSTC	Cloverdale Fleetwood Guildford Newton Surrey City Centre South Surrey	
es stment # iness cipal	CITY OF CARACTER CARA	Economic Developmen City of Surrey 14245 - 56 Avenue Surrey, BC V3X 3A2 Ph: 604-591-4128 Products or Services Order by Mail Trucking & Cartage Hairdressing Wholesaler Esthetician Restauran - Deli Take Out Laundromat, Tanning Salon Hairdressing Recreational Facility Manufacturer - Cabinets General Cont. Equipment Leasing Contractor - General	Unit • H 37 1008 7 101 104 8113 104 6	Posse Road 7068 191 5 6226 1280 5 13733 72 Ave 7548 13753 72 Ave 13758 13402 72 Ave 13768 13402 72 Ave 13578 13555 Fraser Hwy 6468 13605 54A Ave 3237 3237 Xing George 6355 6355 128 58 5	Postal • V4N084 V3X319 V3W2P2 V3W2P2 V3W08 V3W08 V3W23 V3W23 V3W23 V3W23 V3W23 V3W23 V3W23 V3W25 V3W403 V3W421	Phone Emploit 6045763966 604521605 604521605 604597766 6045340057 6045343057 6045946862 604578331 604587789 604512149 6045817457 604581425 6045814255 60458123		ebruary 2 Business Type V Lie Kome Occupation Kome Occupation Kome Occupation Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Home Occupation Commercial/Indust	20, 2012 	Tov CTC FTC GTC NTC SCC SSTC	Cloverdale Fleetwood Guildford Newton Surrey City Centre South Surrey	
es stment # iness cipal Geocode	Image: Construction of the future lives here.	Economic Developmen City of Surrey 14245 - 56 Avenue Surrey, BC V3X 3A2 Ph: 604-591-4128 Product or Services Order by Mail Trucking & Cartage Hair Salon/Barber Hair Gasning Wholesaler Extentician Restaurant - Deli Take Out Laundromat, Tanning Salon Hairdressing Recreational Facility Manufacturer - Cabinets General Cont. Equipment Lessing	Unit • H 37 1008 7 101 104 8113 104 6	Road Road 7068 191 51 6226 128A St 13733 72 7348 1205 12815 85 74 12815 85 Ave 13427 72 Ave 74 1205 13476 85 Ave 13478 85 Ave 1555 Fraser Hwy 6468 King George 6238 138 St 13805 54A Ave 23237 King George 6551 128 St 2310 Woodcrest P 2310 Woodcrest P 2310 Woodcrest P 2310 Woodcrest P 2310 Woodcrest P 2310 Woodcrest P 2310 Woodcrest P 2310 Woodcrest P 2310 Woodcrest P 2310 Woodcrest P 2310 Woodcrest P 2310 Woodcrest P 2310 Woodcrest P 2310 Woodcrest P Xee X	Postal • V4N084 V3X319 V3W2P2 V3W2P2 V3W08 V3W08 V3W23 V3W23 V3W23 V3W23 V3W23 V3W23 V3W23 V3W25 V3W403 V3W421	Phone Emploit 6045763966 6045521605 6045521605 604597766 6045434057 6045384862 60453246823 6045723311 60453247457 6045312149 6045324235 6045330492 6045286235 6045304929	Yees Towe 1 CTC 1 NTC 1 STC	ebruary 2 Busines Type 2 Home Occupation Commercial/indust Commercial/indust Commercial/indust Commercial/indust Commercial/indust Commercial/indust Commercial/indust Commercial/indust Commercial/indust Commercial/indust	CO, 2012 614-11.0:00 5-10-11.0:00 9-26-11.0:00 9-26-11.0:00 9-22-11.0:00 9-12-11.0:00 5-10-11.0:00 5-10-11.0:00 1-12-511.0:00 5-12-11.0:00 5-12-11.0:00 5-12-11.0:00	Tov CTC FTC GTC NTC SCC SSTC	Cloverdale Fleetwood Guildford Newton Surrey City Centre South Surrey	
es stment # iness cipal Geocode	Image: Construction of the future lives here.	Economic Developmen City of Surrey 14245 - 56 Avenue Surrey, BC V3X 3A2 Ph: 604-591-4128 Products or Services Products or Services Prod	Unit • H 37 1008 7 101 104 8113 104 6	Road Road 7068 191 St 6226 128A St 13753 72 Ave 7548 120 St 12815 85 Ave 13978 88 Ave 13978 88 Ave 13975 Fraser Hwy 6468 King George 6432 128 St 12805 54A Ave 2310 Woodcrest P 15910 Woodcrest P 15910 44 St	Postal • V4N084 V3X3L9 V3W2P2 V3W3V1 V3W0K8 V3S189 V3W2V2 V3W208 V3W2X8 V3W208 V3W24 V3W248 V3W24 V3W248 V3W25 V3W268 V3W268 V4N0V3 V3W268 V3W268 V3W268 V3W268 V3W268 V3W268 V3W261 V3W268 V3W261 V3W261 V4P2K8 V4P2K8	Phone Emplo 6045763966 604521005 6045521005 604597766 6045934057 6045938037 6045758037 6045758037 60453211749 6045324323 6045324235 604528235 6045304323 6045304309 6045304309 6045304309 6045304323 6045304309	Yess Town 1 CTC 1 NTC 1 NTC 2 NTC 1 NTC 2 NTC 2 NTC 1 NTC 2 NTC 1 NTC 1 NTC 1 STC 1 STC 1 STC 1 STC 1 STC	ebruary 2 Bune Occupation Home Occupation Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Home Occupation Home Occupation Home Occupation	CO, 2012 concentration of the second of the	Tov CTC FTC GTC NTC SCC SSTC	Cloverdale Fleetwood Guildford Newton Surrey City Centre South Surrey	
es stment # iness cipal Geocode	CITY OF CARACTER CARA	Economic Developmen City of Surrey 14245 - 56 Avenue Surrey, BC V3X 3A2 Ph: 604-591-4128 Product or Services Product or Services Vindesale Hair Salon/Barber Hair Salon/Barber Hair Salon/Barber Hair Salon/Barber Hair Salon/Barber Hair Salon/Barber Restaurat - Deli Take Out Laundromat, Tanning Salon Hairdressing Recreational Facility Manufacturer - Cobinets General Cont. Construction General Cont. Contractor - Miscellaneous General Contstruction Cont.	Unit • H 37 1008 7 101 104 8113 104 6	Road Road 7088 191 St 6226 128A St 13735 72 Ave 12815 85 Ave 13802 64 Ave 13575 Faser Hwy 6468 King George 6255 128 St 2307 King George 6655 128 St 2509 664 Ave 1596 664 Ave 1596 664 Ave 1596 664 Ave 655 128 St 210 Woodrest 210 Woodrest 1596 664 Ave 6552 128 St	Postal ▼ V4N084 V3X3L9 V3W2P2 V3W3X1 V3W088 V3W3K8 V4N0V3 V3W288 V3W3K8 V4N0V3 V3W423 V3W423 V3X564 V4P2K8 V3S544 V32Y66 V3S2Y6 V3S2Y6	Phone Emplo 6043;7366 604521605 6043;721605 604537105 6043;72837 6045484027 6043;728317 604598279 6043;728317 60459279 6045321249 6045321249 604532029 6045320320 60432255 604532235 604322255 604752235 604322255 604752237 604722255 604762257 604722257 6047622273	yess View of the second	Business Type 2 Like Home Occupation Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Home Occupation Home Occupation Home Occupation Home Occupation Home Occupation Home Occupation Home Occupation	CO, 2012 614-11.000 1-06-11.000 3-26-11.000 3-26-11.000 3-26-11.000 3-26-11.000 3-26-11.000 5-10-11.000 5-10-11.000 5-10-11.000 1-12-211.000 5-12-11.000 5-12-11.000 3-20-11.	Tov CTC FTC GTC NTC SCC SSTC	Cloverdale Fleetwood Guildford Newton Surrey City Centre South Surrey	
es stment # iness cipal Geocode	Image: Constraint of the second sec	Economic Developmen City of Surrey 14245 - 56 Avenue Surrey, BC V3X 3A2 Ph: 604-591-4128 Products or Services Products or Services Services Products or Services Products or Services Services Products or Services Products or Services Products of Services Product	Unit • H 37 1008 7 101 104 8113 104 6	Road Road 7088 191 St 6226 128A St 13753 72 Ave 7348 120 St 12815 85 Ave 13408 64 Ave 13475 78 Ave 13482 72 Ave 6455 128 St 2377 King George 6458 128 St 2310 <woodcrest p<="" td=""> 1508 68A Ave 552 144 St 12737 28 Ave</woodcrest>	Postal • V4N084 V3X319 V3W2P2 V3W084 V3S159 V3W2R8 V3W2R8 V3W2R3 V3W2R3 V3W2R3 V3W2R3 V3W421 V3S354 V4P1B7 V3S354 V4P1B7 V3S354 V3S358 V3S589 V3S296 V3W3256	Phone Emplo 60435723966 6045321605 6043521605 604547407 604547407 604548407 6045780807 6045738037 6045780879 604517497 6045381479 6045384325 6045380909 6043705909 604320255 604390090 6043202359 6043705909 60432023275 60439323270 60439282920 60439282920 60439282920 6043928281	yees Vor	ebruary 2 unexpection Kome Occupation Kome Occupation Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Kome Occupation Commercial/Indust Kome Occupation Commercial/Indust Kome Occupation Kome Occupation Kome Occupation Kome Occupation Kome Occupation Kome Occupation Kome Occupation Kome Occupation Kome Occupation	Co, 2012 concelsue Date * 6:14:11:000 12:65:11:000 3:22:11:000 3:22:11:000 5:10:11:000 5:10:11:000 1:17:11:000 1:17:11:000 1:17:11:000 1:17:11:000 5:19:11:000 5:19:11:000 5:19:11:000 5:19:11:000 5:19:11:000 1:17:11:11:11:11:11:11:11:11:11:11:11:11	Toy CTC FTC GTC NTC SCC SSTC	Cloverdale Fleetwood Guildford Newton Surrey City Centre South Surrey	
es stment # iness cipal Geocode	2 Eveness Name Image: Construct Sector Sect	Economic Developmen City of Surrey 14245 - 56 Avenue Surrey, BC V3X 3A2 Ph: 604-591-4128 Product or Services Video Services Vi	Unit • H 37 1008 7 101 104 8113 104 6	Road Road 7088 191.5t 6226 1288.st 13737 72.4e 12373 72.4e 12402 72.4e 13575 78.ae 13402 72.ave 13575 78.ae 13575 78.ae 13575 78.ae 13600 64.Ave 13802 54.Ave 2301 <woodreet p<="" td=""> 15096 668.Ave 6952 144.5t 12772 26.Ave 12377 82.Ave 12377 82.Ave 12377 82.Ave</woodreet>	Postal v VaN084 V3X319 V3X319 V3W282 V3W388 V3S169 V3W288 V4N073 V3W425 V3W481 V4P187 V4P187 V4P288 V33X569 V3X266 V33W555 V3X256	Phone Emplo 6043763966 604521605 604372105 604537105 604374307766 604512143 6043728311 6045729311 6043728327 6045121749 6043212432 604522309 604322375 60452237 604322275 6047652271 604322320 6043728381 6043728381 6043728383	yees View of the second	ebruary 2 Busines Type La Coupation Commercial/Indust Home Occupation	Co, 2012 614-11.000 5-10-11.000 5-20-11.000 5-20-11.000 5-20-11.000 5-10-11.000 5-10-11.000 5-10-11.000 5-10-11.000 1-12-21.10.000 5-12-11.000 5-12-11.000 5-12-11.000 5-12-11.000 5-12-11.000 5-12-11.000 1-22-1	Toy CTC FTC GTC NTC SCC SSTC	Cloverdale Fleetwood Guildford Newton Surrey City Centre South Surrey	
es stment # iness cipal Geocode	Extincts Name Image: Constraint of the second	Economic Developmen City of Surrey 14245 - 56 Avenue Surrey, BC V3X 3A2 Ph: 604-591-4128 Products or Services Products or Services Products or Services Products or Services Products or Services Products or Services Products or Services Protection Restaurat - Deli Take Out Laundromat, Taning Salon Hairdressing Restaurat - Deli Take Out Laundromat, Taning Salon Hairdressing Restaurat - Deli Take Out Laundromat, Taning Salon Hairdressing Recreational Facility Manufacturer - Cabinets General Cont: Construction General Cont: Construction General Cont: Contractor - General Property Management Construction	Unit • H 37 1008 7 101 104 8113 104 6	Road Road 7068 191 55 6226 1284 51 13753 72 Ave 7348 12051 12151 12810 54 12051 13402 72 Ave 13470 78 Ave 13576 88 Ave 13577 13857 54.4 13578 88.4 Ave 2371 Xing George 6355 2310 Woodrest P 15696 6452 123 52 2310 Yoodrest P 15696 6452 123 54 12772 26 Ave 12347 23 Ave 13482 12482 Vine Maple V 13482	Postal • V4N084 V3X319 V3W2P2 V3W084 V3S159 V3W2R8 V3W2R8 V3W2R3 V3W2R3 V3W2R3 V3W2R3 V3W421 V3S354 V4P1B7 V3S354 V4P1B7 V3S354 V3S358 V3S589 V3S296 V3W3256	Phone Emplo 60435723966 6045321605 6043521605 604547407 604547407 604548407 6045780807 6045738037 6045780879 604517497 6045381479 6045384325 6045380909 6043705909 604320255 604390090 6043202359 6043705909 60432023275 60439323270 60439282920 60439282920 60439282920 6043928281	yees Vor	ebruary 2 unext and the second secon	20, 2012 sence laws Date * 6:14:10:00 12:05:11:000 9:26:11:000 9:26:11:000 9:12:11:000 9:12:11:000 5:10:11:000 11:02:11:000 11:02:11:000 5:19:11:000 5:19:11:000 9:22:11:000	Toy CTC FTC GTC NTC SCC SSTC	Cloverdale Fleetwood Guildford Newton Surrey City Centre South Surrey	
es stment # iness cipal Geocode	Image: City of Proceedings 2 Euriness Name Image: City of Proceedings 3 96231 Image: City of Proceedings 4 Surgit Mehanger Image: City of Proceedings 5 # 2 Happy Hair Cut Beauty Salon Image: City of Proceedings 6 # 1 Appy Hair Image: City of Proceedings 7 # Image: Canada Ltd Image: City of Proceedings 8 # 1 Aubits Image: City of Proceedings 9 # Subjit Goarden Ltd Image: City of Proceedings 10 # 2 Bear Creek Cith Lundry & Taming: Image: City of Proceedings Image: City of Proceedings 10 # 2 Bear Creek Cith Lundry & Taming: Image: City of Proceedings Image: City of Proceedings 10 # 2 Bear Creek Cith Image: City of Proceedings Image: City of Proceedings 10 # 2 Bear Creek Cith Image: Cith Image: Cith Image: Cith 10 # 2 Bear Creek Cith Image: Cith Image: Cith Image: Cith 10 # 2 Bear Creek Cith Image: Cith Image: Cith Image: Cith 10 # 2 Bear Creek Cith	Economic Developmen City of Surrey 14245 - 56 Avenue Surrey, BC V3X 3A2 Ph: 604-591-4128 Product or Services Video Services Vi	Unit • H 37 1008 7 101 104 8113 104 6	Pouse Road ▼ 7088 191 55 6226 128A st 13733 13733 72 Ave 12415 12315 85 Ave 13542 12354 88 Ave 13555 13555 57aser Hwy 666 6468 King George 6238 6238 1283 2327 7000 GétA Ave 12509 664A Ave 12772 56 Ave 12772 1360 GétA Ave 12772 56 Ave 1277 128 Zve 12377 12842 Vino Market 12772 12445 12772 256 Ave 12377 1342 Vino Market 12472 1778 2.4ve 12472 156 Ave 12472 154.2ve 124342 12474 1243.4xe 124342	Postal * V4N0B4 V3X319 V3X924 V3X941 V3W028 V3W028 V3W028 V3W028 V3W028 V3W028 V3W028 V3W028 V3W028 V3W028 V3W028 V3W028 V3W423 V3W423 V3W423 V3W428 V3S584 V3S5783	Phone Emplo 6043763966 6045521605 604357165 604597766 6043434057 6045918037 6043578037 6045728037 6043578037 6045728037 60435211749 6045387487 604358705 604380090 604326255 604380090 6047252757 604439227 6043626257 6043823920 604359281 604597881 6047754080 604784080	F 1 GTC 1 NTC 1 NTC 2 NTC 2 NTC 1 NTC 2 NTC 1 NTC 1 NTC 1 NTC 1 STC 1 STC 1 NTC 1 STC 1 NTC 1 STC 1 NTC 1 STC	ebruary 2 Busines Type La Coupation Commercial/Indust Home Occupation	Co, 2012 614-11.000 5-10-11.000 5-20-11.000 5-20-11.000 5-20-11.000 5-10-11.000 5-10-11.000 5-10-11.000 5-10-11.000 1-12-21.10.000 5-12-11.000 5-12-11.000 5-12-11.000 5-12-11.000 5-12-11.000 5-12-11.000 1-22-1	Toy CTC FTC GTC NTC SCC SSTC	Cloverdale Fleetwood Guildford Newton Surrey City Centre South Surrey	
es stment iness cipal Geocode building	Image: City of Proceedings 2 Image: City of Proceedings 3 99231 4 Surgit Mehanger 5 # 2 Happy Hair Cut Beauty Salon 6 # 1 Happy Hair 7 H Ingex Canada Ltd 8 # 1 Happy Hair 9 # Surgit Mehanger 9 # Surgit Meinrot & Beauty Parlon Itd 10 # 28 zear Creek Coin Laundry & Taming. 11 # Happy Hair Cut & Beauty Parlow Itd 12 (Crossfit Renegade) Renegade Athletics 13 049218 St Cutd 14 043338 G Cutd 15 0492248 Cutd 10 0749317 B Cutd 10 0749238 Cutd 10 0749238 Cutd 10 0749248 Cutd <t< td=""><td>Economic Developmen City of Surrey 14245 - 56 Avenue Surrey, BC V3X 3A2 Ph: 604-591-4128 Product or Services Order by Mail Trucking & Cartage Hair Salon/Barber Hair Salon/Barber Hair Gasnig Restaurant - Deli Take Out Laundromat, Tanning Salon Hairdressing Ethetician Restaurant - Deli Take Out Laundromat, Tanning Salon Hairdressing Contractor - Cobnets General Cont. Construction General Cont. Construction General Cont. Contractor - Miscellaneous General Cont. Contractor - Miscellaneous General Cont. Contractor - General Property Management Consultant</td><td>unt • H 37 1008 7 101 104 6 201</td><td>Read 7088 191 St 6226 128A St 13733 72 Ave 7348 1205 12313 83 Ave 13402 64 Ave 13432 72 Ave 13432 72 Ave 13432 72 Ave 13575 88 Ave 13576 88 Ave 13577 84 Ave 327 XIng George 6455 128 St 2509 66A Ave 327 XIng George 1509 66A Ave 327 XIng George 1509 66A Ave 327 XIng George 12707 25 Ave 1342 Vine Maple 1277 26 Ave 1342 Vine Maple 1342 Vine Maple 1362 143 St 1372 143 St 1382 143 St 1384 143 St 1384 143 St</td><td>Postal - VAN064 V3X319 V3W3281 V3W381 V3W381 V3W381 V3W381 V3W381 V3W408 V3W382 V3W381 V3W382 V3W382 V3W382 V3W382 V3W385 V3W382 V3W385 V3W3825 V49189 V3W3825 V49189 V3W3825 V49189 V3W3825 V49189 V3W3825 V49189 V3W3825 V44758</td><td>Phone Emplo 6043763966 6045211605 60435211605 6045377766 6043531407 60453434037 6043532187 604537837 60435783937 60453121749 604352121749 604531247457 6045320309 6045320309 604322575 6043278309 6043228275 6044392271 6044786309 6047785316 6043786309 6047785309 6043786309 6047784309 6047786328 6047786328</td><td>yees View of the second second</td><td>ebruary 2 Busines Type 2 Home Occupation Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Home Occupation Home Occupation Home Occupation Home Occupation Home Occupation Home Occupation Home Occupation Home Occupation Home Occupation Home Occupation</td><td>200, 2012 614-11 0:00 5-10-11 0:00 5-20-11 0:00 3-22-11 0:00 3-22-11 0:00 3-22-11 0:00 5-10-11 0:00 5-10-11 0:00 5-10-11 0:00 1-12-51 0:00 1-12-51 0:00 5-12-11 0:00 5-12-11 0:00 1-22-11 0:00 1-22-12 0:00 1-22-</td><td>Toy CTC FTC GTC NTC SCC SSTC</td><td>Cloverdale Fleetwood Guildford Newton Surrey City Centre South Surrey</td><td></td></t<>	Economic Developmen City of Surrey 14245 - 56 Avenue Surrey, BC V3X 3A2 Ph: 604-591-4128 Product or Services Order by Mail Trucking & Cartage Hair Salon/Barber Hair Salon/Barber Hair Gasnig Restaurant - Deli Take Out Laundromat, Tanning Salon Hairdressing Ethetician Restaurant - Deli Take Out Laundromat, Tanning Salon Hairdressing Contractor - Cobnets General Cont. Construction General Cont. Construction General Cont. Contractor - Miscellaneous General Cont. Contractor - Miscellaneous General Cont. Contractor - General Property Management Consultant	unt • H 37 1008 7 101 104 6 201	Read 7088 191 St 6226 128A St 13733 72 Ave 7348 1205 12313 83 Ave 13402 64 Ave 13432 72 Ave 13432 72 Ave 13432 72 Ave 13575 88 Ave 13576 88 Ave 13577 84 Ave 327 XIng George 6455 128 St 2509 66A Ave 327 XIng George 1509 66A Ave 327 XIng George 1509 66A Ave 327 XIng George 12707 25 Ave 1342 Vine Maple 1277 26 Ave 1342 Vine Maple 1342 Vine Maple 1362 143 St 1372 143 St 1382 143 St 1384 143 St 1384 143 St	Postal - VAN064 V3X319 V3W3281 V3W381 V3W381 V3W381 V3W381 V3W381 V3W408 V3W382 V3W381 V3W382 V3W382 V3W382 V3W382 V3W385 V3W382 V3W385 V3W3825 V49189 V3W3825 V49189 V3W3825 V49189 V3W3825 V49189 V3W3825 V49189 V3W3825 V44758	Phone Emplo 6043763966 6045211605 60435211605 6045377766 6043531407 60453434037 6043532187 604537837 60435783937 60453121749 604352121749 604531247457 6045320309 6045320309 604322575 6043278309 6043228275 6044392271 6044786309 6047785316 6043786309 6047785309 6043786309 6047784309 6047786328 6047786328	yees View of the second	ebruary 2 Busines Type 2 Home Occupation Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Commercial/Indust Home Occupation Home Occupation Home Occupation Home Occupation Home Occupation Home Occupation Home Occupation Home Occupation Home Occupation Home Occupation	200, 2012 614-11 0:00 5-10-11 0:00 5-20-11 0:00 3-22-11 0:00 3-22-11 0:00 3-22-11 0:00 5-10-11 0:00 5-10-11 0:00 5-10-11 0:00 1-12-51 0:00 1-12-51 0:00 5-12-11 0:00 5-12-11 0:00 1-22-11 0:00 1-22-12 0:00 1-22-	Toy CTC FTC GTC NTC SCC SSTC	Cloverdale Fleetwood Guildford Newton Surrey City Centre South Surrey	
es stment iness cipal Geocode building	CITY OF CITY O	Economic Developmen City of Surrey 14245 - 56 Avenue Surrey, BC V3X 3A2 Ph: 604-591-4128 Products or Services Products or Services Restaurant - Deli Take Out Laundromat, Tanning Salon Hairdressing Restaurant - Deli Take Out Laundromat, Tanning Salon Hairdressing Recreational Facility Manufacturer - Cabinets General Construction Contractor - General Construction General Construction Contractor - General Property Management Construction Cons	unt • H 37 1008 7 101 104 6 201	Poiss Read 7088 19 St 6226 128A St 13733 72 Ave 7348 120 St 12313 83 Ave 13408 64 Ave 13408 72 Ave 13408 72 Ave 13578 88 Ave 13578 88 Ave 13577 88 Ave 13578 88 Ave 13578 88 Ave 13578 88 Ave 13578 84 Ave 327 72 Ave 1599 66A Ave 327 72 Ave 1599 66A Ave 1277 25 Ave 1342 Vine Maple 1277 26 Ave 1342 Vine Maple 1342 Vine Maple 1342 Vine Maple 1342 Vine Maple 1343 Vine Maple 14360 72 Ave 14360 72 Ave 14360 72 Ave	Postal v VaNoB4 V3X19 V3W2P2 V3W3W2 V3W2P2 V3W2N4 V3W25 V3W25 V3W25 V3W423 V3W423 V3W423 V3W423 V3W428 V3W428 V3W428 V3W428 V3W478 V3W478	Phone • Emploid 60435763966 604537105 6043571055 6043977766 6043434057 604344687 6043578037 6043578307 6043578379 6043518477 6043514279 6043518477 6043598779 6043512479 6043598279 6043504323 6043598279 6043504323 6043598279 6043634235 6043705905 6043763203 604372590 604372351 604378581 6047780399 6043724480 6043284886 6043284886 6043284886 6043284886 6043284886 6043284886 6043284886 6043284886 6043284886 6043284886 6043284886 6043284886 6043284886 6043284886 6043284886 6043284886 6043284886 6043284886 6043284886 6043284886 6043284886 6043284886 6043284886 6043284886 6043284886 60432848	F verse • Toor • 1 NTC 1 NTC 2 NTC 2 NTC 2 NTC 1 NTC 2 NTC 1 NTC 1 NTC 1 STC 1 NTC 1 NTC 1 STC 1 NTC 1 NTC 1 STC 1 NTC 1 NTC 1 NTC 1 STC 1 NTC 1 NTC 1 STC 1 NTC 1 NTC 1 NTC 1 STC 1 NTC 1 NTC 1 NTC 1 STC 1 NTC 1 NTC 1 NTC 1 NTC 1 NTC 1 NTC 1 NTC 1 NTC 1 NTC 1 STC 1 NTC 1 NT	ebruary 2 unear yee 2 unear yee 2 unear 2 unea	20, 2012 	Toy CTC FTC GTC NTC SCC SSTC	Cloverdale Fleetwood Guildford Newton Surrey City Centre South Surrey	
stmont 🔤	Image: City of Proceedings 2 Eutiness Name Image: City of Proceedings 3 9931 Image: City of Proceedings 4 Surgit Mehanger Image: City of Proceedings 5 #1 Happy Hair Cut Beauty Salon Image: City of Proceedings 6 #1 Happy Hair Cut Beauty Salon Image: City of Proceedings 7 #1 Image: City of Beauty Salon Image: City of Proceedings 8 #1 Atalis Image: City of Proceedings 9 #1 Sub Graden Ltd Image: City of Proceedings 10 Image: City of Proceedings Image: City of Proceedings 10 Image: City of Proceedings Image: City of Proceedings 10 Image: City of Proceedings Image: City of Proceedings 10 Image: City of Proceedings Image: City of Proceedings 10 Image: City of Proceedings Image: City of Proceedings 11 Image: City of Proceedings Image: City of Proceedings 12 Image: City of Proceedings Image: City of Proceedings 13 Image: City of Proceedings Image: City of Proceedings	Economic Developmen City of Surrey 14245 - 56 Avenue Surrey, BC V3X 3A2 Ph: 604-591-4128 Product or Services Order by Mail Trucking & Cartage Hair Salon/Barber Hair Gensing Wholesaler Extentician Restaurant - Deli Take Out Laundromat, Tanning Salon Hairdressing Recreational Facility Manufacturer - Cabinets General Cont. Construction General Cont. Construction General Cont. Contractor - Miscellaneous General Cont. Contractor - Miscellaneous General Cont. Contractor - Construction Consultant Mig. & Installation - Signs General Cont. Financial Planning/Consultant Contractor - General	Unit • H 37 1006 7 1 104 6 6 201 201	Pouse Road ▼ 7088 191 55 6226 128A 51 13733 72 Ave 13737 72 Ave 31 13808 64 Ave 13423 13408 64 Ave 13426 13478 85 Ave 13535 13535 Frazer Hwy 668 6636 King George 6528 6238 1385 1285 2310 Woodcrest P 15098 5521 12310 Woodcrest P 12277 256 Ave 13422 12237 King George 6552 6420 1243 1244 12277 256 Ave 13422 13422 Vine Maple 1 6150 13622 Vine Maple 1 1569 13623 1293 Ave 1293 Ave 13624 1294 Ast 14980 14980 128 Ave 1293 Ave	Postal ~ VAN064 VAN064 V33V292 V33V292 V33V292 V33V292 V33V292 V33V284 V4N073 V33V284 V4N073 V33W482 V34V284 V34W481 V34V284 V34W481 V34V284 V34X94 V34X294 V34X94 V34X94 V34X94	Phone Emplo 6045763966 604521005 604552105 604597766 6045378037 6045788037 6045783037 6045738037 6045783037 6045783037 6045324023 604528235 604532400 6045230309 6047322275 6045304323 604782275 6045304323 604782275 6045304324 6047862271 604590581 6047862284 604786444 6047864284 604590581 6047244080 604523686 6045420840 604523686 6045420840 604523686 6045420840 604523686 6045208414 604590580 604520805 604520680 6047240005 7788655130	yees • Tow • 1 CTC 1 NTC 2 NTC 2 NTC 2 NTC 1 NTC 2 NTC 1 NTC 1 NTC 1 NTC 1 NTC 1 NTC 1 NTC 1 STC 1 NTC 1 STC 1 NTC 1 STC 1 NTC 1 STC 1 NTC 1 STC 1 NTC 1 STC 1 NTC 1 NTC 1 STC 1 NTC 1	ebruary 2 survey and the second seco	200, 2012 concentration of the second of th	Toy CTC FTC GTC NTC SCC SSTC	Cloverdale Fleetwood Guildford Newton Surrey City Centre South Surrey	
es stment iness cipal Geocode building	Image: City Of Particle City Of Pa	Economic Developmen City of Surrey 14245 - 56 Avenue Surrey, BC V3X 3A2 Ph: 604-591-4128 Products or Services Products or Services Restaurant - Deli Take Out Laundromat, Tanning Salon Hairdressing Restaurant - Deli Take Out Laundromat, Tanning Salon Hairdressing Recreational Facility Manufacturer - Cabinets General Construction Contractor - General Construction General Construction Contractor - General Property Management Construction Cons	Unit • H 37 1006 7 1 104 6 6 201 201	Read 7068 191 St 6226 128A St 13733 72 Ave 7548 120 St 12815 85 Ave 13805 64 Ave 13402 72 Ave 13402 72 Ave 13576 88 Ave 13577 13577 13605 64 Ave 6426 1136 13577 72 Ave 13578 138 St 2327 Xing George 6355 128 St 12978 64 Ave 6352 124 St 12972 54 Ave 6352 124 St 1297 52 Ave 1297 52 Ave 1297 52 Ave 1342 Vine Maple I 650 1640 St 1852 144 St 1854 1243 St 1982 124 St 15122 66 Ave	Postal ✓ VaNoB4 VaXa39 V3W2p2 V3W3W2 V3W2x8 V3W2x8 V3W2x8 V3W2x8 V3W2x8 V3W423 V3W423 V3W423 V3W428 V3W428 V3W428 V3W428 V3W428 V3W458 V3W455 V3W458 V3W458 V3W458 V3W458	Phone • Emploid 60435763966 604537105 6043571055 6043977766 6043434057 604344687 6043578037 6043578307 6043578379 6043518477 6043544457 6043518477 6043548477 6043518427 6043548425 6043508270 604354255 604370590 604372590 6043723275 604398879 604378281 604378581 6047780399 6043284255 6043782888 604328428886 604324480 6043284886 604324480 6043284886 604324480 6043284886 6043248886 6043284886 6043248886 6043284886 604328886 6043284886 604328886 6043284886 6043284886 6043284886 6043284886 6043284886 6043284886 6043284886 6043284886 6043284886 6043284886 6043284886 6043284886 6043284886 <td>F verse • Toor • 1 NTC 1 NTC 2 NTC 2 NTC 2 NTC 1 NTC 2 NTC 1 NTC 1 NTC 1 STC 1 NTC 1 NTC 1 STC 1 NTC 1 NTC 1 STC 1 NTC 1 NTC 1 NTC 1 STC 1 NTC 1 NTC 1 STC 1 NTC 1 NTC 1 NTC 1 STC 1 NTC 1 NTC 1 NTC 1 STC 1 NTC 1 NTC 1 NTC 1 NTC 1 NTC 1 NTC 1 NTC 1 NTC 1 NTC 1 STC 1 NTC 1 NT</td> <td>ebruary 2 unear yee 2 unear yee 2 unear 2 unea</td> <td>20, 2012 </td> <td>Toy CTC FTC GTC NTC SCC SSTC</td> <td>Cloverdale Fleetwood Guildford Newton Surrey City Centre South Surrey</td> <td></td>	F verse • Toor • 1 NTC 1 NTC 2 NTC 2 NTC 2 NTC 1 NTC 2 NTC 1 NTC 1 NTC 1 STC 1 NTC 1 NTC 1 STC 1 NTC 1 NTC 1 STC 1 NTC 1 NTC 1 NTC 1 STC 1 NTC 1 NTC 1 STC 1 NTC 1 NTC 1 NTC 1 STC 1 NTC 1 NTC 1 NTC 1 STC 1 NTC 1 NTC 1 NTC 1 NTC 1 NTC 1 NTC 1 NTC 1 NTC 1 NTC 1 STC 1 NTC 1 NT	ebruary 2 unear yee 2 unear yee 2 unear 2 unea	20, 2012 	Toy CTC FTC GTC NTC SCC SSTC	Cloverdale Fleetwood Guildford Newton Surrey City Centre South Surrey	

- The Economic Development Office collects and analyzes information to make investm decisions, encourage busines growth and creates municipa economic policy.
- There is the potential to Geod this information into the buil inventory via address.
- The issue is that the business license data does not contain government and other institutions who do not require a business license.



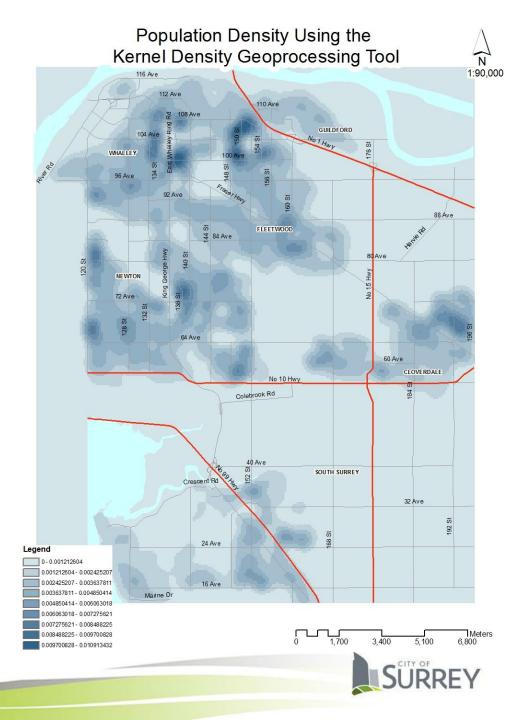
Density

- Attribute data from Surrey's building inventory can also be Geocoded to the cadastre or lot based data either by address or spatial join.
- Unit, population and employment total and/or density can be calculated starting at the lot level.
- This method can also be used for other geographies with Surrey.

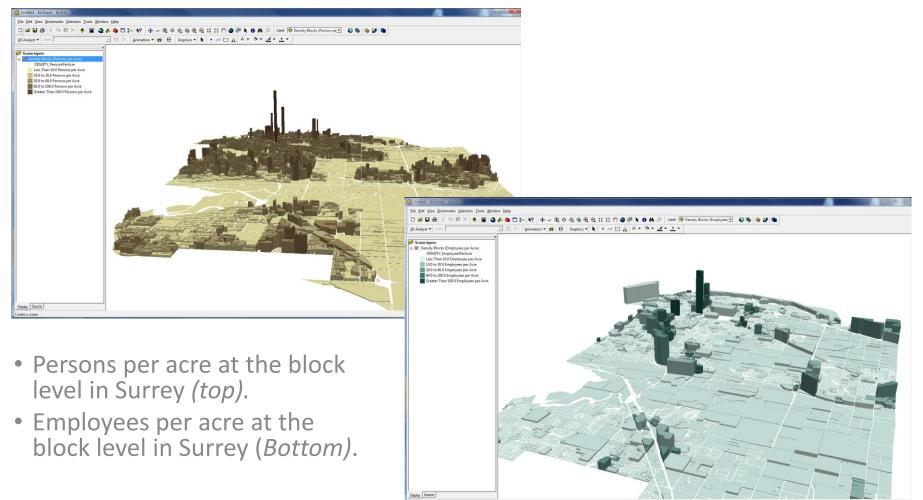


Density

- The building inventory can also be used to create raster files that represent density or any other attribute that is contained in the building inventory.
- The Kernel Density tool calculates a magnitude per unit area from point features using a kernel function to fit a smoothly tapered surface to each point.



3D Model of Density





Surrey's Building Demolitions

- In 2012, there were 37 single family demolitions in Cloverdale, 28 in Fleetwood, 20 in Guildford, 112 in Newton, 120 in South Surrey and 139 in Whalley.
- Since 2000, residential and nonresidential demolition permit information factors in building demolitions.
- Using Surrey's latest orthophotos, demolished units are removed from the building inventory.
- This information is used to create a net increase for monthly and annual unit and population figures.



Attribute Information

Column Heading	Attribute Information	Column Heading	Attribute Information	Column Heading	Attribute Information
FOLDER NO	Amanda Folder Number		Assembly		Aboriginals
ADDRESS	Property Address		Automotive Services		Со-ор
DEVELOPMENT	Nonresidential		Automotive Storage		Emergency Shelter
ТҮРЕ	Residential		Education		Family
	Assembly		Farm Related	SPECIAL HOUSING	Mental Health Addictions
	Coach House		Fire Station	TYPE	Multi Types
	Education		Govt Related		Seniors
	Farm Related		Gravel Storage		Special Needs
	Govt Related		Health Related		Transition-Supportive
	Health Related		Hotel		Not Applicable
	High Rise Apartment		Library		Authorized
	Industrial	NONRESIDENTIAL	Lumber Yard	SECONDARY SUITE	None
DEVELOPMENT SUBTYPE	Low Rise Apartment	SUBTYPE	Manufacturing		Unauthorized
SUBITPE	Mobile House	JUDITE	Office	SECONDARY SUITE	Yes
	Office		Outdoor Metal Storage	FEE	No
	One Family Dwelling		Post Office	PRE 2000	Yes
	Recreational Club House		Rail Yard	PRE_2000	No
	Retail		Recreation Related	DEMOLITION YEAR	Year of Building Construction
	Secondary Suite		Recreational Club House	DEMOLITION_PERMIT	Month
	Townhouse		Retail	ISSUE MONTH	Not Applicable
	Two Family Dwelling		Shopping centre	DWELLINGS_LOST	Number of Residential Dwellings
			Transit parking	AVERAGE	Average Household Size by
			Truck Storage	HOUSEHOLD SIZE	Community
There are	e 16 variables		Utilities	POPULATION_LOST	Population Within Each Building
			Warehouse	EMPLOYMENT_LOST	Employment Within Each Building
that cont	ain		Market Rental		
			A Alizzand		

Mixed

Not Rented

Non-Market Rental

RENTAL TYPE

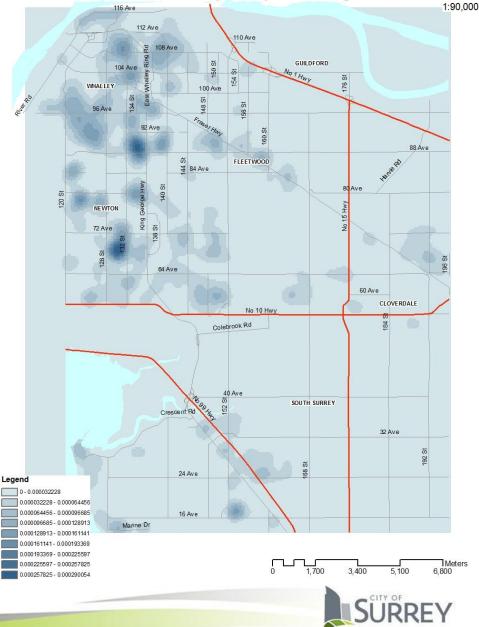
information for each

building in Surrey.

SURREY

Surrey's Building Demolitions

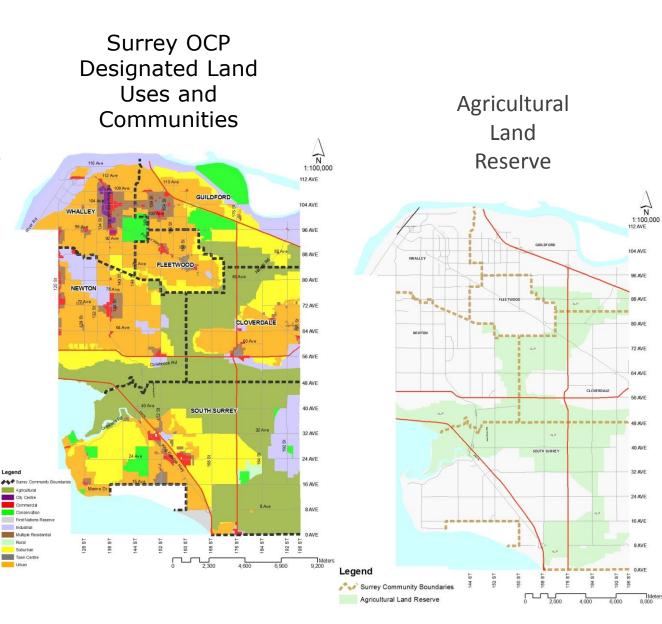
The inventory of demolitions can also be used to create raster files that represent density or any other attribute that is contained in the demolition inventory. Density of Residential Demolitions Using the Kernel Density Geoprocessing Tool



- The City of Surrey Planning & Development Department maintains and updates population and employment within specific areas of Surrey. These include:
 - Generalized Land Uses (Surrey's OCP 2001)
 - Specific Land Uses;
 - Neighbourhood Concept Plans,
 - Local Area Plans,
 - Generalized Land Use Plans, and
 - established communities.
- These subareas are used to identify point features in the building inventory. This information is used for existing and projected unit, population and employment build out scenarios.

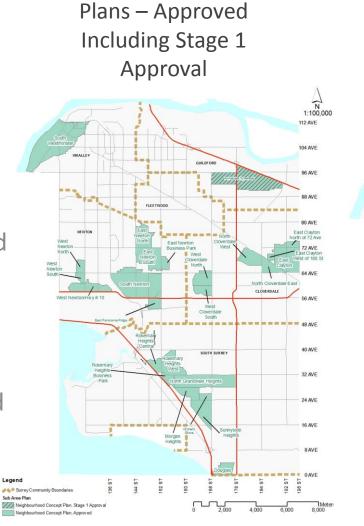


- Surrey's current OCP
 Designated Land
 Uses and
 Communities.
- Approximately onethird of the city's total land base is agricultural land and the city is home to over 500 farms.



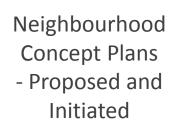


- There are 25 Neighbourhood **Concept Plans Currently Approved** or At Stage 1 Approval.
- There are 5 Neighbourhood **Concept Plans Currently Proposed** and Initiated



Legend

Neighbourhood Concept





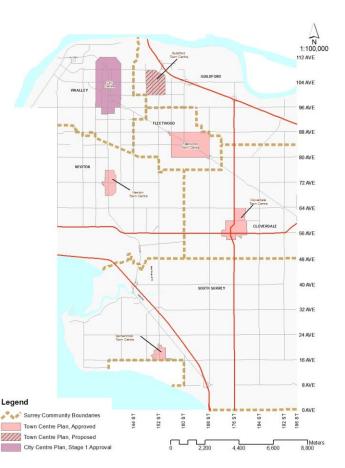
JRREY

- Currently, there is 1
 Development
 Concept Plan and 3
 active Local Area
 Plans.
- Currently, there are 4 approved Town Centre Plans, 1 proposed Town Centre Plan and the City Centre Plan with Stage 1 Approval.

Development Concept and Local Area Plans

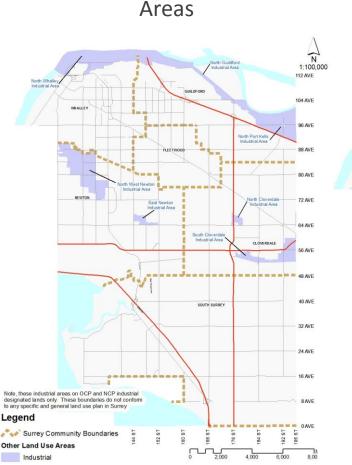
N 1:100,000 112 AVE UILDFORD 104 AVE 96 AVE 88 AVE 80 AVE 72 AVE 64 AVE CLOVERDALE 56 AVE 48 AVE 40 AVE SOUTH SURREY 32 AVE 24 AVE 16 AVE 8 AVE n an 8 OAVE 28 ST 36 ST 84 ST 92 ST 96 ST 🔶 Surrey Community Bound Meters 8,000 Development Concept Plan 2,000 4,000 6,000 Local Area Plan

Town Centre and the City Centre Areas





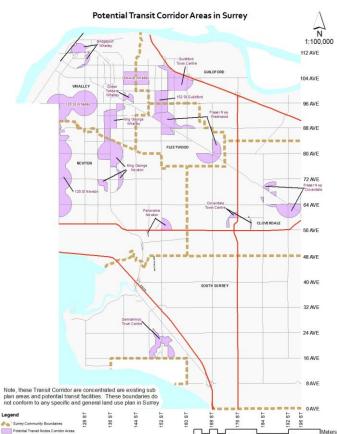
- There are 7 major industrial areas identified in Surrey.
- There are several major transit corridor areas that are identified in Surrey.



Legend

Industrial

Potential Transit Corridor Areas





The Building Inventory – Methodology

 The second major component of Surrey's Population Model is the non-GIS component that includes existing and projected (2041) unit, population and employment figures.





Benefits of Surrey's Population Model

- The ability to query unit and population current estimates for any geographic boundary within Surrey;
- The ability to map concentrations or population/employment densities;
- The ability to map spatial distribution by type of development (single family, townhouse, apartment, etc)
- Connection to GIS data, which provides a solid base for Surrey's unit/population projection figures.



Model Output

- Surrey's model also includes attribute information that allows staff to accurately estimate by dwelling type and year, the unit and population figures for any geography within the city.
- Several examples of the model output include;
 - Unit and population figures (existing and projected) by housing type by any geography in the City
 - Spatial analysis that allows for tabulation of unit and population figures (existing and projected) based on any geography in the City.
 - Calculation of unit build out capacities for any geography in the City.
 - Employment figures (existing and projected) for any geography in the City



Total Number of Units Each Year (based on net number of units added Each Year)

Onr.co Barlo Talal Onr.co 2004 Janet Talal Onr.co 2004 Janet Talal Onr.co 2005 Janet Barlo Talal Onr.co 2014 Janet Barlo Talal Onr.co 2014 Janet Onr.co 2014 Janet Onr.co	larel I I Too Family Durlling I I I Too Family Durlling and Too Family Durlling	Cleared ale Taux Cealer 323 - 785 - 425 - 425 - 425 - 323	Claglas GLUP - Residual	E.ol Clayloo 184	Esal Cisgiaa Ealyssiaa, Waal of 188 SI	Esol Clayloo Harib of 72 Aar	Harib Claardair Easi	Harlk Clearedair	Wrai Clauredair	Weat		1.1-	Harib	Smith	Clauredate	France Hay			
Onr.co Barlo Talal Onr.co 2004 Janet Talal Onr.co 2004 Janet Talal Onr.co 2005 Janet Barlo Talal Onr.co 2014 Janet Barlo Talal Onr.co 2014 Janet Onr.co 2014 Janet Onr.co	end Tun Famila Purilling Anarce Iarael and Tun Famila Purilling Anarce Iarael Iarael	482 523 785 1,515 475			Ealrasias,		Classedate	Classredate		Weat			Haalb	Sault	Classedate	France Hug			
2000 Land Talah 3200 Land 3200 Land	Anner Iaral I Iaral Iaral Iaral Iaral Iaral	525 785 1,515 475	21	184				Weal	Harlb	Claarrdalr Saalb	West Claylon Heighbourhood 84	Weal Claylos Heighboorhood 82	Channel de la	Chareedate	Taua Crater Tranil Carridar	Classedale Teanail Carridae	ALR	Outside Planned Arean	Classedal Talal
Rach Telal Sara Sara Sara Sara Sara Sara Sara S	larel I I Too Family Durlling I I I Too Family Durlling and Too Family Durlling	785 1,515 475			: ;		624			46	204	57	27	45	225	177	245	4,000	8,658
Talal Quei, Jacob Apach Quei, Jacob Apach Quei, Apach Quei, Apach Quei, Apach Quei, Jacob Apach Quei, Jacob Apach Quei, Jacob Apach Quei, Jacob Apach Data Apach Talal Quei, Jacob Apach Apach Talal Quei, Jacob Apach Apach Talal Quei, Jacob Apach Apach Talal Quei, Jacob Apach A	l and Tue Paully Durlling denser Iaral I and Tue Paully Durlling	1,516					965	181								567			1,318
Orres 2014 Jank Agerle Talal Orres 2013 Jank Agerle Orres 2019 Jank Agerle Talal Orres 2019 Jank Agerle Talal Orres 2019 Jank Agerle Talal Orres 2019 Jank	eed Two Family Durilling channe Imenal I and Two Family Durilling	471	21		!				·····		204	1	22	45	225	1,224	245	121 5,885	18,73
2014 Josef Razels Saras Saras 2015 Josef Agaels Talal Saras 2015 Josef Razels Saras 2014 Josef Razels Saras 2014 Josef Razels Saras 2015 Josef Saras 2015 Josef Jose	chanar Iaral I and Tun Panily Durlling			184		11	676	126	211	74	285	57	22	45	225	111	251	4,515	8,552
Aporta Operan 2002 Journ Aporta Operan 2003 Journ Operan 2004 Journ Operan 2004 Journ Operan 2004 Journ Operan 2005 Journ Operan 2005 Journ Operan 2005 Journ Operan 2005 Journ 2005 Journ	laral I and Tan Family Durlling				· · · · ·		565	225		••••••		••••••			1	547			1,334
Talal Osras 2002 Jacob Agarlo Talal Osras 2009 Jacob Agarlo Talal Osras 2004 Taunh Agarlo Talal Osras 2005 Jacob Agarlo Talal	l and Tan Pamily Darlling	785			· · · · ·				1				<u> </u>		ļ	1	i	121	827
Zanz Tauah Aparla Taidi One an Aparla Zang Tauah Aparla Taidi One an Zang Tauah Taidi One an Zang Tauah Aparla Taidi One an Zang Tauah Aparla Taidi One an Zang Tauah		1.515	111	184		11	1.841	551	245	74	285	17	27	15	225	1.235	251	5.115	11.15
Zanz Tauah Aparla Taidi One an Aparla Zang Tauah Aparla Taidi One an Zang Tauah Taidi One an Zang Tauah Aparla Taidi One an Zang Tauah Aparla Taidi One an Zang Tauah		477		254	1	11	783	371	224	- 10	285	17	27	11	225	136	253	4,551	5,457
Aparla Tald On ray 2005 Tauch Aparls Tald On ray 2004 Tauch Aparls Tald On ray 2004 Tauch Aparls Tald On ray 2005 Tauch Aparls Tald		525	•	I			965	225	126					I	I	547	I		1,401
Onr.es 2003 Tauch Apach Talal Onr.es 2004 Tauch Talal Onr.es 2005 Tauch Talal Talal	laral	785						.	11				<u> </u>				•	121	827
Zang Tauah Aparla Talal Our as 2004 Tauah Talal Our as 2005 Tauah Zang Tauah Talal Talal	1	1.511	111	242		11	1,874	595	151	- 10	285	17	27	14	225	1.241	251	5.211	11.51
Aparla Talal Oor as 2004 Tauah Aparla Talal Oor as 2005 Tauah Aparla Talal	nd Two Family Durlling	475	581	355	,		763	979	485		286	37	27	14	225	556	254	5,833	5,753
Aparla Talal Oor as 2004 Tauah Aparla Talal Oor as 2005 Tauah Aparla Talal	.keeer	525		183	I		41	225	165				I	•		567		134	1,781
Onr.co 2004 Tauah Aparla Talal Onr.co 2005 Tauah Aparla Talal	laral	785						i	<u> </u>	!	<u> </u>	·	<u> </u>					121	127
2004 Tauah Aparta Data Oaraa 2005 Tauah Aparta Talal		1.518	111	416		11	1.151	- 614	647	111	215	17	27	- 14	225	1.211	254	5.54	12.55
Aparta Talal One an 2005 Tanah Aparta Talal	ad Tue Family Dualling	474	584			96	817	582	661	186	285		25	12	225	336	255	5,182	18,15
Aparla Talal Qaraa 2005 Tauah Aparla Talal		525	•	158			598	225	517		•	•	•	•	1	547	1	524	2,525
. One an 2005 . Taxah Aparta Talal		785	•						1	·	1			•				121	827
2005 Tauah Aparta Talal	1	1.511	314	636	1	36	1.415	617	363	116	285	37	25	12	225	1,213	253	5.547	13.31
<u>Aparta</u> Talal	nd Tue Family Durlling	472	5114	862	.	36	847	415	775	585	285	57	26	11	225	358	251	5,145	18,54
Talal		525		452	į i		598	275	979		.		ļ	•		567		524	2,722
		785	·	168	ļ I	·		Ļ	1	·		!	<u>.</u>	·			I	121	587
		1.585	110	1.474	_	36	1.445	631	1.151	121	285	37	25	- 11	225	1,215	251	5.591	14.54
	ad Tue Fauily Durlling	462	114	1,318	ļ i	33	147		834		200	57	25	1	225	555	251	5,219	11,55
2005 Taunh		525		1,855	27	97	598	926	575		•		ļ	•				524	5,574
Aparts		785	_	211	52			!	141	·		!			·····			121	1,254
Talal		1.415		2.511	73	111	1.445	112	1.351	- 41	20	37	26		225	1,313	251	5.664	15.47
	nd Tun Family Durlling	453	314	1,548	133	199 97	859 598	578 433	857 491	425	200	37	25	·	258	552 588	252	5,587	12,22
2007 Tanah		121		1,388							•		÷					124	4,123
Aparta Talal		1.555		200	243	211	1.451	1.00	250		200		<u>-</u>		1	1,512	252	121	1,460
	ad Tue Family Duelling	457	114	1,02			1.921	616	1.21	445	278	16	25	-	211	1,316	254	5,572	12,83
zana Tawak		121		1,444	199	218	858 558	435	491	11	era .					331 388		3,376 524	4,555
Aparla	Incel	111		526	184				258				••••••					121	1,331
Talal		1,715	114	1.152	241	515	1.455	1.102	1.583	467	271	15	25	5	211	1,111	254	5.817	13.13
0 ar	and Tun Panily Durlling	456	314	2,333		- 413	861	685	357	462	278	38	25	5	258	336	255	5,525	15,82
2009 Teres		525	•	1,473	199	200	558	513	451	- 18	•	•	•	•	I	388	•	524	4,431
Aparla		111	•	592	184			!	258				<u> </u>	I				121	1,557
Talal	1	1.715	314	4.451	245	613	1.451	1.204	1.61		271	31	25	5	251	1.315	255	5.978	21.11
	ed Tue Family Durlling	455	582	2,557		(55	863	781	1,001	519	278	38	25	5	258	556	255	5,658	14,51
2848 Taunh	.h	121		1,615	199	200	598	552	491	-18			I	•		388		524	4,555
Aparts		111		798	184	·		Ļ	258	·	•	·		•		!]	I	121	2,10
Talal		1.715	112	4.318	243	773	1.461	1.333	1.682	591	271	11	25	5	231	1,316	255	6.835	21.13
	1	456	585	2,645	ļ i	599	868	795	1,814	598	274	57	25	5	258	556	255	5,698	14,61
2844 Taunh	l and Tax Pamily Darlling	525		1,755	176	386	651	578	491			I	ļ					524	5,82
Aparts	l and Ture Panelly Durelling channer		.	738				!	250	·	·	!	1	·		ب ــــا	!	121	2,14
Talal	l and Two Panily Durlling duran Incal	4 245	315	5.142	211	925	1.515	1.365	1.635	555	274	17	27	5	238	1,315	255	6,495	21.71
	ind Ton Family Parilling Annar Imrai																		
2842 Tanak	l and Tax Pawily Darlling dense Incal I and Tax Pawily Darlling	456		2,648		629	B74	816	1,812	558	275	17	25	5	251	555	258	5,746	14,81
Aparts Talal	l and Two Family Poselling damar Incal ad Two Family Poselling damar			2,640 1,040 007	1 132 184	623 473 8	871 534 8	846 621 8	1,812 491 258	550 10 0	275 41 1	37 1	25 1	s I	231				14,811 5,542 2,275

• Net number of units broken down by Surrey's Communities and sub area plans including ALR, industrial and transit corridor areas.



Output of Model

Several products can be produced from the model given any geography with Surrey. These include:

- Number of units.
- Total and average residential floor area by housing type (single family, town house, apartment etc).
- Average household size by residential type.
- Population
- Employment
- Total and average non-residential floor area by building type (commercial, industrial, institutional, farm related etc)
- Worker density ratios by building or employment type.
- Density (including units, population and employment).
- Provides a solid base for projections (including floor space, units, population, average household size and employment, worker density ratios).
- Construction year.
- Non-market housing.



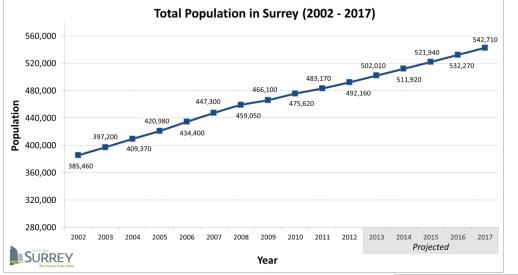
Output of Model

Other benefits include:

- Tie into the housing market data (Fraser Valley Real Estate Board).
- Engineering traffic studies (traffic zones).
- Transit corridor studies
- Agricultural Land Reserve Inventory
- Industrial Land Inventory.
- Sub plan build out scenarios.
- School Board school existing and enrollment projections
- Community Safety (RCMP and Fire).
- Market analysis for small business.
- Verify census information.

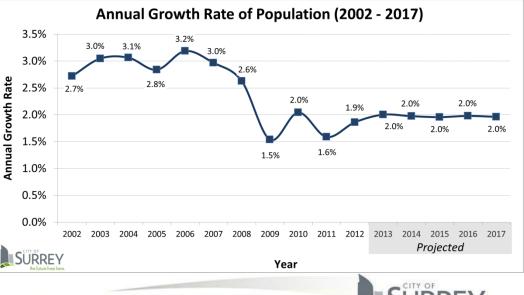


Total Population and Growth Rate of Residential Development (2002 - 2017)

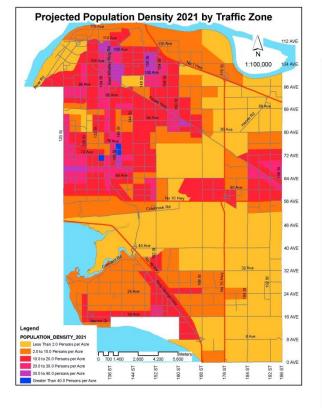


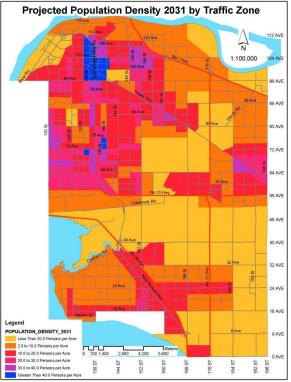
 There are 21,482 units in the application process which will provide for housing for the next 5 years based on Surrey's estimated annual population growth rate. 84.1% are multifamily.

- Surrey's total population estimated at 492,160 residents (December 2012).
- Approximately 106,700 new Surrey residents the past decade average annual growth rate of 2.77%.
- Population growth of up to 50,550 residents is projected in the five years between 2012 and 2017.

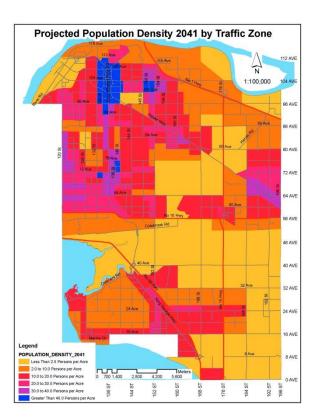


Projected Population Density by Traffic Zone



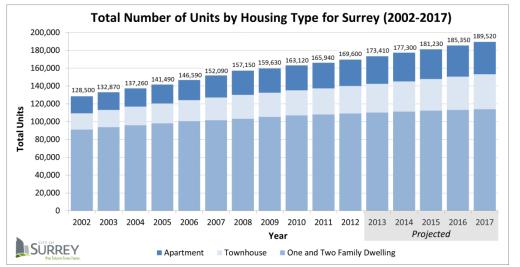


- Population Densities for 2021, 2031 and 2041.
- Issues with traffic zone polygons that do not match Surrey's sub plan boundaries.



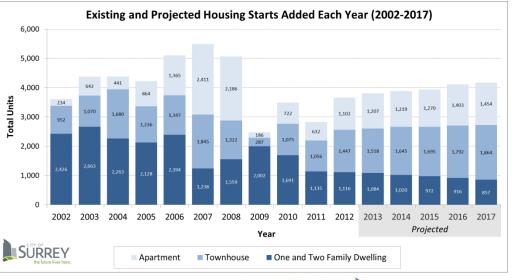


Number of Units by Housing Type and Existing and Projected Housing Starts (2002 - 2017)



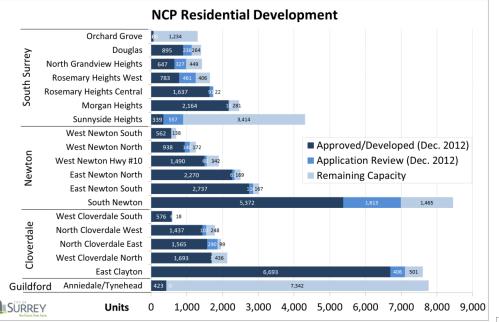
- In 2012, 3,665 net units were built – approximately 10,629 new residents.
- The estimated 3,980 units per year over the next 5 years.

- 169,600 residential units in the City (December 2012)
- Approximately 19,920 units will be added in the next five years.
- In 2002, 29.2% of units were multi-family. Increase to 35.6% in 2012 and anticipated 40% of stock by 2017.



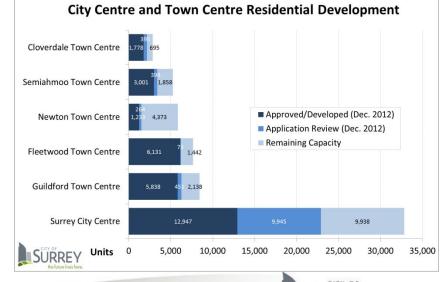


NCP and Town Centre Residential

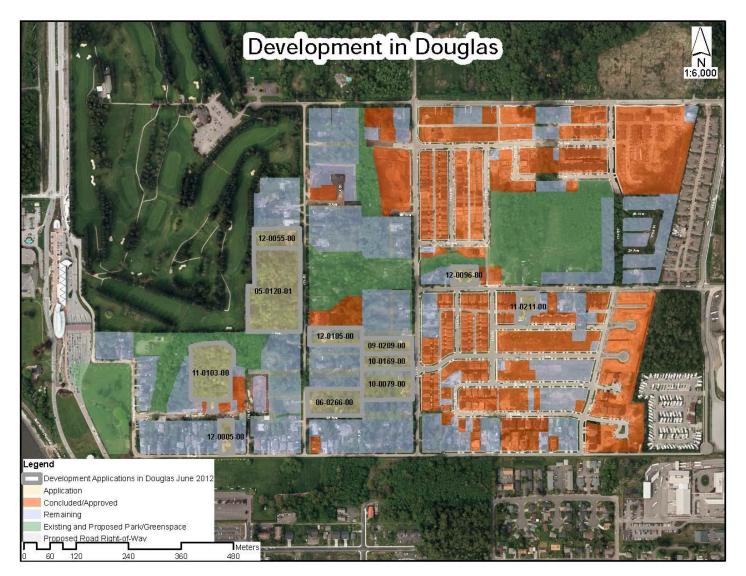


Within approved NCPs that provide a total capacity of 53,936 dwelling units, which will accommodate up to approximately 157,576 residents, assuming 2.9 ppu (based average household size of in Surrey's approved NCP areas in 2012).

 Surrey's City Centre and Town Centres that provide a total capacity of 62,896 dwelling units, which will accommodate up to approximately 141,292 residents, assuming 2.2 ppu (based average household size of in Surrey's City Centre and Town Centres in 2012)

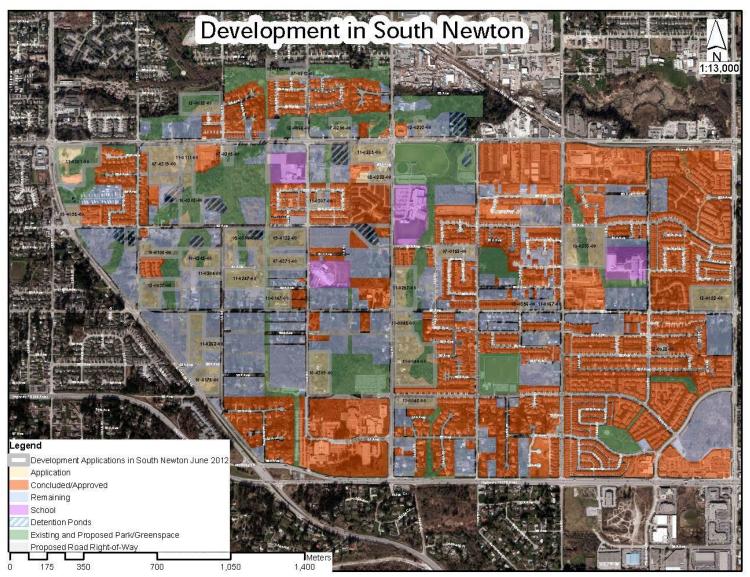


NCP Residential Potential Development



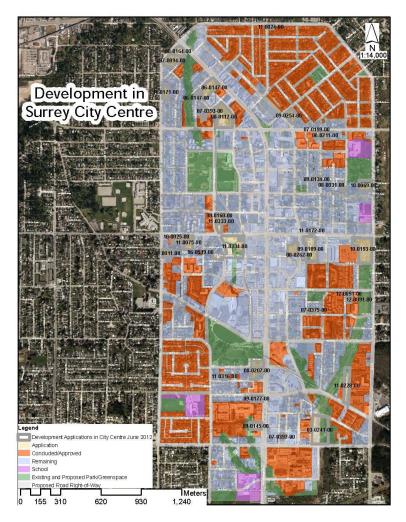


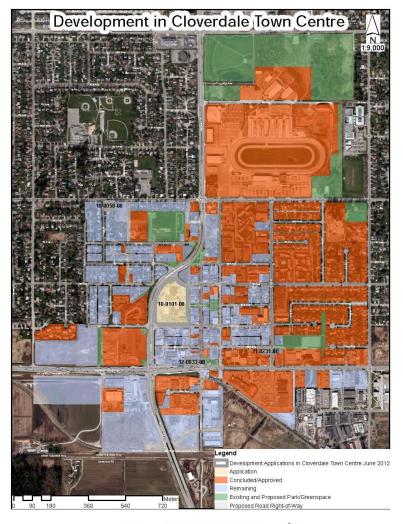
NCP Residential Potential Development





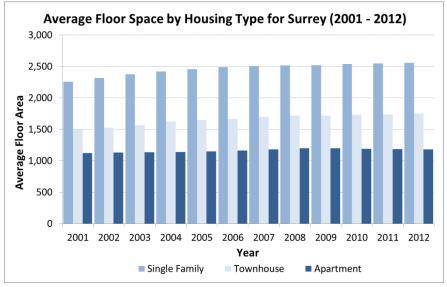
Town Centre Residential Potential Development





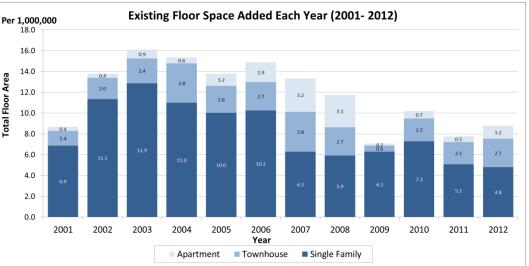


Residential Floor Space in Surrey (2001 to 2012)

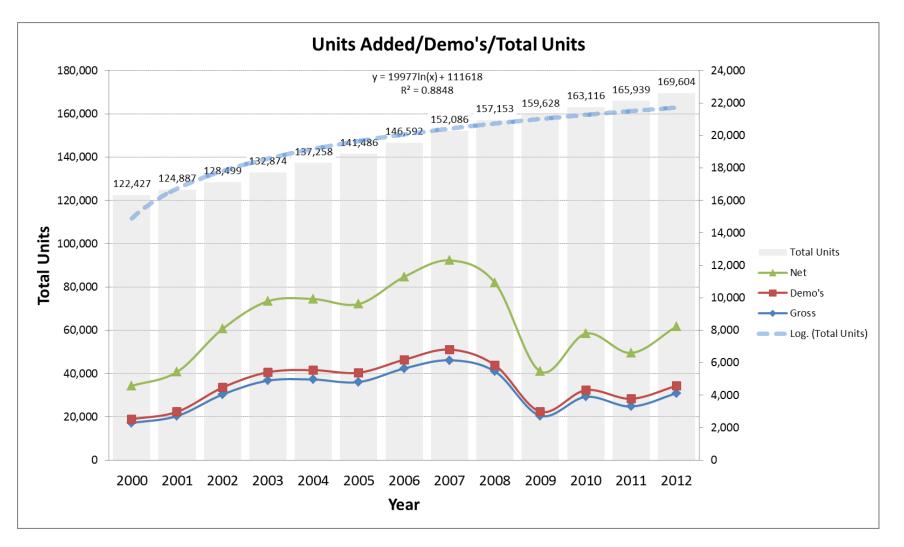


• Over the last 10 years, residential unit sizes have increase but in the last 3 years, have leveled off .

- In 2012 there was 8,770,270 sq.ft. of residential floor space added in Surrey.
- Single family construction accounted for approximately 4.8 million square feet while multi-family accounted for approximately 3.9 million square feet.



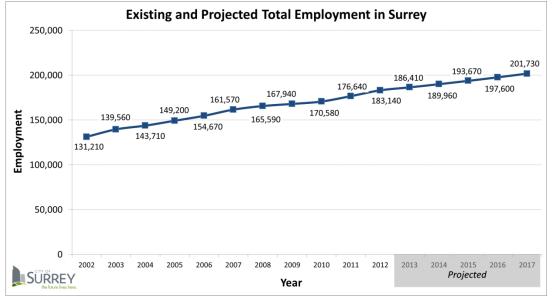
Residential Development Trends in Surrey (2000 to 2012)



• The overall trend for residential development in Surrey is slowing down.

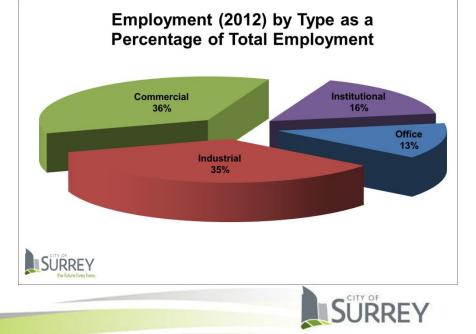


Employment

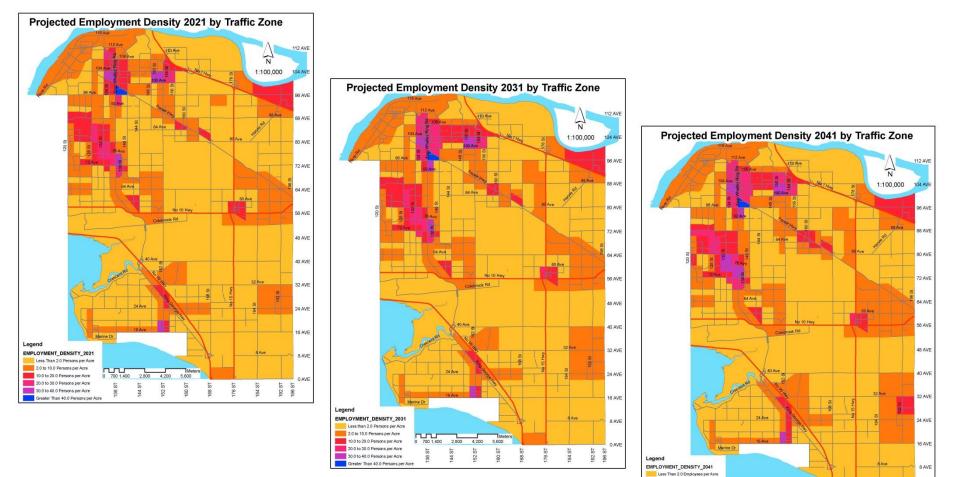


- Surrey's total employment is estimated at 183,140 (December 2012).
- Approximately 51,930 new jobs in the past decade average annual growth rate of 3.4%.
- Employment growth of up to 18,590 residents is projected in the five years between 2012 and 2017.

- There were approximately 6,500 jobs added in 2012.
- The largest proportion of employment added in Surrey was institutional (approx. 2,380 jobs) followed by commercial (approx. 2,020 jobs) followed by office (approx. 1,400 jobs) then industrial (approx. 700 jobs).



Projected Employment Density by Traffic Zone



- Employment Densities for 2021, 2031 and 2041.
- Issues with traffic zone polygons that do not match Surrey's sub plan boundaries.



O AVE

ST

5

4,200

5,600

700 1,400 2,800

20.0 to 10.0 Employees per Acre

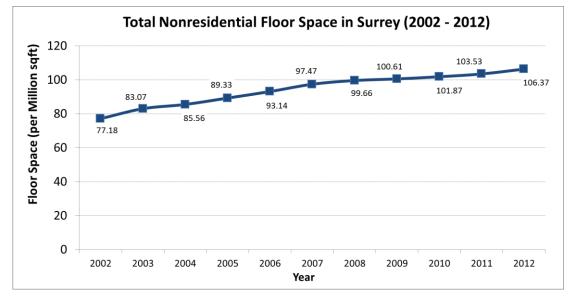
10.0 to 20.0 Employees per Acre

20.0 to 30.0 Employees per Acre

30.0 to 40.0 Employees per Acre

Greater Than 40.0 Employees per A

Non-residential Floor Space

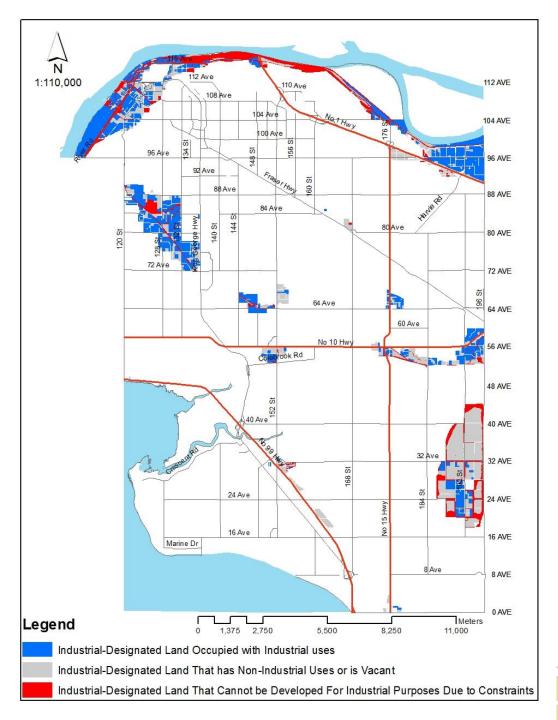


- In 2012 Surrey had approximately 106.37 million square feet of non-residential floor space.
- Approximately 2.8 million square feet of non-residential floor space added in 2012.
- Institutional floor space added accounted for 55% (1,559,350 square feet) of total non-residential floor space added in 2012.

- Overall "Worker Density Ratios" by employment type vary considerably in Surrey.
- Office WDRs are the smallest (1 employee for every 249 square feet) compared to institutional (1 employee for every 836 square feet).

Year	Office	Industrial	Commercial	Institutional
2006	251	548	631	974
2007	252	550	626	974
2008	252	554	621	974
2009	256	554	620	952
2010	257	556	617	952
2011	258	558	616	852
2012	249	559	607	836



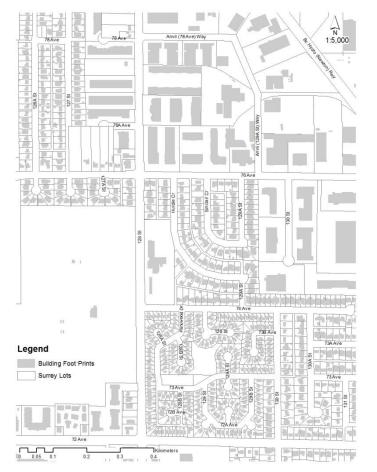


Industrial Land in Surrey

- Total Industrial-Designated Land – 7,370 acres
- Industrial-Designated Land Occupied with Industrial Uses – 3,247 acres
- Industrial-Designated Land That has Non-Industrial Uses or is Vacant – 2,637 acres
- Industrial-Designated Land That Cannot Be Developed For Industrial Purposes Due to Constraints – 1,486 acres

From 2D to 3D

Surrey's 2D Building Foot Prints



• Converting 2D building foot print data into 3D data using elevation.

Surrey's 3D Building Foot Prints

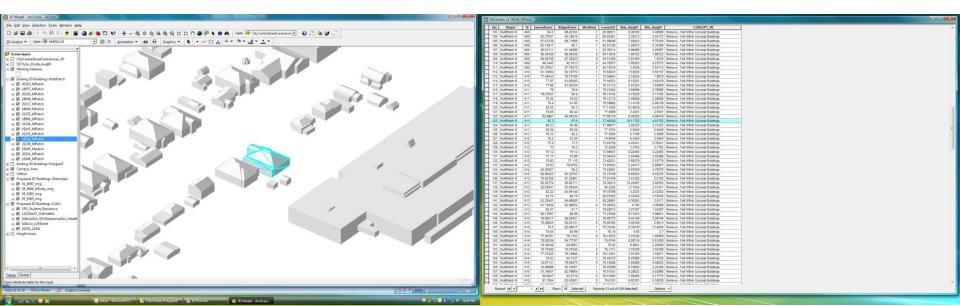




True 3D Model Components

- GIS 3D buildings MultiPatch files
 - Are less complex than PolygonZ files 3D building type files.
 - Multipatch 3D files contain simplified attribute information that include only one row of data in the attribute table that describe the building.
 - The advantage is related to memory storage. Multipatch files take up less memory that PolygonZ files.

MultiPatch type GIS 3D files



True 3D Model Components

- GIS 3D buildings PolygonZ files
 - Are more complex than Multipatch 3D building type files.
 - PolygonZ files contain more detailed attribute information regarding all sizes of the building.
 - The advantage is related to it's complexity. PolygonZ files can store more attribute information for each building that includes building facade (exterior of a building) and other land use information (illustrated on the right).

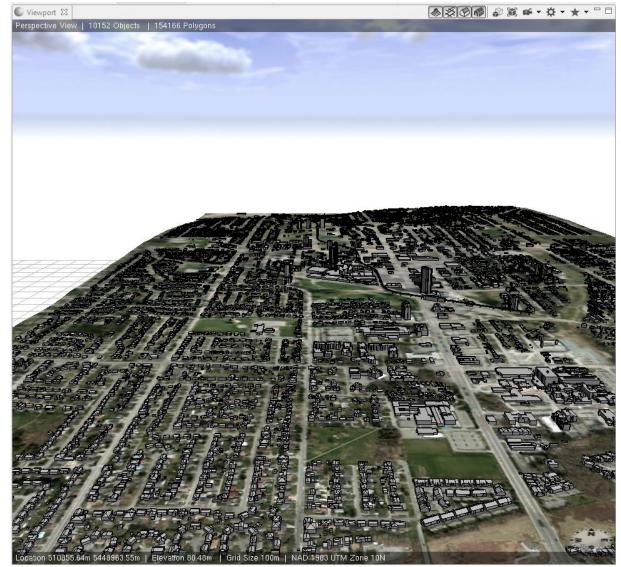


PolygonZ type GIS 3D files

a 30 Model - Arcisene - Archito	Ambane of 13144, Poy2
Ele Edit View Selection Icols Window Help	TO Shape Number ID Modified ExvesAbsol RidgeAbsol Exves Ridge LowestZ HighestZ FaceType FaceID RoofType Texture NormaLX NormaLY NormaL
	1020 Pelypon 204 1100 411 1 82.0961 06.94335 0 0 77.90134 82.9 1 7 0 texture_wall.ong 0.00541 -0.99999 0
30 Andyst × Law: ◆ StellAlf - 第次 Animation × 前日日 Graphics × 入 ・ ハンロム A × A × ユ × _ ×	1027 Polypoir 2M1 1101 411 1 82.9641 86.9435 0 0 77.98154 82.9 1 8 0 Interact-waters 1 0.003 -0.0001 1022 Polypoir 2M1 1121 411 1 82.9613 6 77.98154 82.9 1 8 0 Interact-waters 1 0.003 -0.0001 1022 Polypoir 2M1 1121 411 1 82.9 1 9 0 Interact-waters 0.003 -0.0001
30 Analyst • Law (# Stealarth 2 38 × Animaten • 18 12 Graphics • 4 • × C X * • • Z · Z ·	1029 Polygon 224 1103 411 1 82.6961 86.9435 0 0 77.90134 82.9 1 10 0 texture_wall.org 0.99999 0.00542 0
# Scene tives	1930 Physion 2W 1164 411 1 82.0991 06.9302 82.9891 06.93025 2 6 4 Instant_proof prog 0.90256 6.40056 0.80705 1931 Physion 2W 111 15.20945 6.49435 6.94355 2 7 4 Instant_proof prog 0.90266 6.40056 0.80705
Score types	1931 Polygon 2ht 1165 411 1 E2.0961 88:4035 49476 9.8-4022 82.0861 68:4035 2 7 4 better_porting 0.02269 - 4.44056 0.80703 1932 Polygon 2ht 1104 411 1 E2.0961 88:4035 0 0 77.96134 2 2.0861 1 1 0 better_pwiding 0.90269 - 4.04056 0.00704
a D 30 Pyby, Raute Aug08	1933 Polygon 201 1107 411 1 62.8961 86.94335 0 0 77.90134 82.8961 1 12 0 texture_wait.png 0.9999 0.00541 0
S 🗹 Missing Features	1959 Polygon 2M 1106 411 1 E2,0901 05,9325 0 0 774524 77,90154 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	1958 Polygon 2N 1110 411 1 82.3 87.6 6 6 77.45348 82.30345 1 1 6 Instant_waiting -0.01338 6.99991 6
k □ Externy 20 Buildepp Hypert	1937 Partyop 2011 1111 411 1 62.3 87.6 0 6 77.4424 23.2045 1 2 6 Methers walking 0.99991 -0.01330 0 1938 Partyon 2011 111 411 1 62.3 87.6 0 6 77.4424 23.2045 1 3 0 Methers walking 0.99991 -0.01330 0
□ 🖳 1807 PelyZ	1939 Physips 2W 1112 (411 1 62.3 87.6 0 0 774244) (23.2026 1 3 0 methre_watking 0.99991 -0.01338 0 1939 Physips 2W 1113 (411 1 62.3 67.6 (41752 4.5997 62.3 62.30246) 2 0 1 texture_moting 0.99991 -0.01338 0
H 🗹 18058_PolyZ	1940 Polygon 234 1114 411 1 82.3 87.6 7.1967 0.41899 04.63918 85.50147 2 1 2 texture_most prog 0.43397 0.00561 0.50091
B 2 18009, PolyZ	1447 Physion 2M 1115 411 1 623 87.6 [7:402 44108 P443018 654047 2 2 2 2 2 Makere_sort grag -0.42307 -0.00581 0.90004 1 1462 Physion 2M 1116 411 1 623 87.6 [43172 44587 823 323026 2 3 1 Makere.met grag 0.90208 0.00004 1
0 E 1800, 2%Z	142 Palyon 28 1116 411 1 42.3 87.8 481752 431997 82.3 62.3 62.3425 2 3 1 https://www.mod.fmg 0.00009 0.00004 1 1445 Palyon 28 1117 41 1 42.3 67.8 481752 43197 0.22.3 62.342 2 3 1 https://www.mod.fmg 0.00009 0.00004 1 1445 Palyon 28 1117 41 1 42.3 67.8 481752 131178 0.22.345 6278 2 3 1 https://www.mod.fmg 0.01199 0.00009 1 100009
	1944 Polygon 2N 1116 411 1 82.3 87.6 4.81997 10.1175 82.30245 87.6 2 5 4 Instance_roofping -0.61199 -0.00819 0.79082
	1946 Physics 201/ 1119 411 1 82.3 87.6 0 0 7744244 82.30245 1 4 0 Instruwalking -0.01338 5.99999 0 1946 Physics 201 1121 411 1 62.3 87.6 0 77.48244 82.30246 1 6 0 0.01338 6.99999 0
H 🗹 19146, PolyZ	1997 Troppen ZW 1121 411 1 62.3 87.6 0 77.48246 62.30245 1 6 0 884.88979 0.99730 0.01338 0
B ☑ 20214 PolyZ	1940 Polygon 204 1122 411 1 82.3 87.6 0 0 77.48240 82.30245 1 7 0 texture_walkpmg 0.01344 4.99991 0
10 19 2003 50%	1949 Physics 2NI 1123 411 1 62.3 87.6 0 1 77.44248 1 8 0 Instrume_walkings -0.01344 0 50.7 Physics 1 8 0 Instrume_walkings -0.01344 0 0 Instrume_walkings -0.013444 0 0 0 Instrume_walkings -0.01344 0 0 Instrume_walkings -0.013444 0 0 Instrume_walkings -0.013444 0 0 Instrume_walkings -0.013444 0 0 Instrume_walkings -0.011444 0 Instrume_walkings -0.011444 0 Instrume_walkings -0.011444 Instrume_walkings -0.011444 Instrume_walkings -0.011444 -0.011444 -0.011444 -0.011444 -0.011444
	1951 Polygon 221 1125 411 1 82.3 87.8 0 0 77.40248 85.90147 1 10 0 texture_wall.prg -0.01338 0.99991 0
H 🕑 21233 ProtyZ	1952 Physion 2W 1126 411 1 623 87.6 0 6 77.4524 623 1 1 6 enter-walking 9.99991 0.0138 0 1953 Physion 2W 1127 411 1 623 87.6 0 6 77.4524 623.0355 1 2 6 enter-walking 9.99991 0.
B 2 2224 PolyZ	1958 Polygon ZW 1127 411 1 62.3 87.6 0 0 77.48248 62.32045 1 12 0 Instance_walkings -0.01338 0.99991 0 1964 Polygon ZW 121 411 1 62.32045 1 10 Instance_walkings -0.01338 0.99991 0
a 8 2125,9%2	1055 Pergen 29 1120 411 1 82.3 87.6 481997 10.1175 82.30245 87.6 2 6 4 texture_montping -0.00726 0.54233 0.54014
n B 2238,7692 ₽ 8 Company Area	1967 Polygon 2W 1130 (411 1 62.3 87.6 0 0 77.44246 (44.0316 1 14 6 Instrum_walding 0.99991 0.01338 0 1967 Polygon 2W 131 (411 1 62.3 67.6 0 0 77.44246 (44.0316 1 16 0 Instrum_walding 0.99991 0.01338 0
	1967 Poppin 24 112 411 1 123 875 481997 10.115 8230245 876 2 7 4 texture_vorting 0.0268 - 0278 - 02783 0.54914
Reported 3D Buildings (Statchup)	1959 Polygon ZM 1133 411 1 82.3 67.6 6 6 77.45248 0 6 6 0 -1
6 🗹 01,007,mg	Total Hot Total Hot Total Hot Total Hot Total Hot Total Hot
(a) ⊉ 05,004, Minbay,mag (a) ⊉ 05,003,mag	1952 Polycon 214 1136 411 1 80.23 80.99 0 0 77.96577 80.23 1 0 0 texture welling -0.99756 -0.06981 0
	PHO Physion 2/W 1137 411 1 05.23 0.96 0 07.09877 40.23 1 1 6 motors_walking 0.99976 0.09975 0 1964 Photopic 2W 1314 11 30.23 30.56 1 7 2.05 1 1 0 20.9975 0 0 77.08977 60.36 1 2.05 20.6916 0.09975 0 0 77.08977 60.36 1 2.05 20.0975 0 0 77.08977 60.36 1 2.05 20.0125 walking 0 20.01275 0 0 77.08977 60.36 1 2.05 20.0125 0 0 77.0127 0
B Proposed 30 Buildings (CAD)	1965 Physics 724 1136 (411 1 1 05.22 05.96 0 0 770677 05.09 1 2 0 05.09 1 0 0 770677 05.09 1 2 0 05.09 1 0 0756 0 1965 Physics 724 1139 (411 1 05.22 05.99 0 0 770677 05.09 1 3 0 05.00 07067 05.09 1 0 075067 0
(B Z SRU_Student_Residence	1010 Persyon 228 1140 411 1 00.23 00.09 0 0 0 77.00077 07.00077 0 0 0 0 0 0 1
H 🗹 1233no7/OdraleRd	1967 Polypor 2M 1141 411 1 00.20 6.24.46 2.94.46 2.96.20 2 0 1 Instarce_soft copy 0 0 1 1969 Polypor 2M 1141 411 1 0.20 0 1 0 1 0.94644 -0.946444 -0.946444 -0.946444 -
B 20 10ts2024, 970/westeendee_Mad0	1990 Polypor 28 1142 411 0 00-28 00-28 0 0 173354 00-28 1 0 0 018147_membry 0-19954 0-19954 0-0355 0
H 🗹 10251,1338	1970 Pelygon 298 1144 411 1 00.28 00.28 0 0 0 77.3354 80.28 1 2 0 texture_wall.ong 0.99649 0.00376 0
12 Height Areas	1977 Polygon 2W 1145 411 1 00 28 00 28 0 0 773354 00 1 1 3 0 Extre_wellong 0.00376 09960 0 1972 Polygon 2W 1144 411 1 00 28 00 28 0 0 773354 0 0 0 0 1
	1973 Pergen 298 1147 412 1 79.33 82.2 3.6766 5.1768 80.7 82.2 2 6 4 texture_motifying 0.01421 0.3341 0.94243
	1974 Pelygon Zit 1148 412 1 79.33 82.2 3.6706 5.1706 80.7 82.2 2 1 3 texture_mof.png -0.57822 0.02459 0.81551
	1979 Pelygen 2W 1149 442 1 79:33 622 30709 51706 60.7 622 2 2 4 tenter_roof any 0.5722 62459 03551 1979 Pelygen 2W 1542 1 79:33 622 35709 51705 60.7 622 2 3 3 tenter_roof any 0.5722 62459 03551
	1977 Polygon 234 1151 412 1 79.33 82.2 0 0 77.8294 78.33 1 0 0 texture_walkprg -0.9991 8.04248 0
	1079 Physips 271 1152 1412 1 79:33 622 30:3080 30:3080 80:0654 00:30654 1 1 1 0 totare_soft and 0 1 1 0 totare_soft and 0 1 1 1079 Physips 271 1153 1412 1 79:33 622 0 0 777224 00:5054 1 1 1 0 totare_soft and 0 6 0 1 1 0 totare_soft and 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	1900 Pelypon 28 1154 412 1 79.33 82.2 0 0 77.5294 80.06034 1 2 0 texture_walkprg -0.9991 0.04249 0
Daplay Source	1981 Polygon 298 1155 412 1 79.33 82.2 0 0 0 77.8294 80.50834 1 3 0 texture_walkpng 0.9991 -0.04249 0
	1002 Relyop 201 1156 412 1 758 3 622 2 2006 2006 79.33 79.33 2 5 1 minute_not program 0 0 1
Side 24 of 25 Office Theme 🌀 English Canada 🕕 🔍 🗧 🔍 🗧	Record 1 • • 1 • 1 • 1 Brown Al Selected Records (25 out of 4902 Selected) Options -
💫 😹 🕼 🖉 Base - Monreet D. 🔓 Cripterine Johgney 📓 20 Process 🔹 10 Montel - Action	

True 3D Data – ESRI's City Engine

- CityEngine is a simple-to-use, 3D city editing and visualization tool.
- It allows for creation and maintenance of 3D city scenes.
- Provides the option to share
 3D City Scenes to ArcGIS Online.





Future Concept of 3D Data

City Centre (South looking North along King George Hwy) Concept Buildings



City Centre (East looking West) Concept Buildings





Summary

- Surrey's model includes attribute information that allows staff to accurately estimate by dwelling type and year, the unit, population and employment figures for any geography within the city.
- Surrey's population model incorporates assumptions based on Census information, including a unit undercount estimate and average household size.
- Based on the latest Census undercount information, derived estimated population from both the City of Surrey and Statistics Canada is similar.
- This adds a level of confidence to the City of Surrey estimates, and forms a solid base for projecting unit and population figures over the next 30 years.
- Future prospects include integration into a 3D environment.



Contact Information

Stuart Jones | Senior Planner MCIP RPP Planning & Development 14245 - 56 Ave, Surrey, BC, Canada V3X 3A2 T 604.591.4167 | F 604.591.2507 sdjones@surrey.ca

www.surrey.ca

