



Regulatory Policy Goals and Spectrum Auction Design

Lessons from the Canadian AWS Auction

A Statement by Christian Michael Dippon

20 March 2009

Contents

Executive Summary	2
Introduction	6
AWS Spectrum Commanded a Significant Premium	8
High Prices Jeopardize Policy Objectives	17
Preferential Treatment	21
Set Asides	24
Economic Literature and Regulators Do Not Favor Set-Asides	
Set-Aside Provisions Result in a Double Tax for Incumbents	27
Theory	27
Practice	
Set-Asides Provided Entrants with a Strategic Advantage	
Downsides of Set-Asides Were Intensified by Flawed Definition of Entrants	39
Conclusion and Recommendations	42
About the Author	45

Executive Summary

On July 21, 2008, Industry Canada completed its auction of 105 megahertz (MHz) of radio spectrum. The auction lasted 331 rounds in which 282 of the 292 licenses offered were provisionally attributed, generating total revenue of CAD 4.26 billion.¹ These results far surpassed the CAD 1-1.5 billion forecasted by analysts. While some media outlets described the auction as a success, the high prices paid for the licenses raise at least two important questions:

- Why did the Canadian AWS spectrum sell at a significant premium over U.S. AWS spectrum when prior economic evidence suggests the opposite?
- What are the economic consequences of the record high spectrum prices?



In order to answer the first question, it is important to verify whether the analysts' expectations were reasonable and, if so, to estimate the amount by which the Canadian AWS spectrum sold over its forecasted value. Using two econometric models and an analyst technique, we calculated this value based on the value of identical spectrum sold in the U.S.² The results of these models confirmed that the Canadian AWS spectrum sold at a significant premium. Specifically, the overall auction revenue exceeded the average predicted value by an average of 138 percent with unrestricted and restricted licenses commanding an average premium of 174 and 94 percent, respectively, over comparable licenses. The average prices paid for the Canadian AWS spectrum also were also much higher than the average prices paid for the same spectrum in the U.S., even though historically Canadian prices per MHz-pop were well below U.S. prices for identical spectrum.³ As expected, although prices for the Canadian AWS spectrum far exceeded comparable licenses, they were determined by the same variables as in the U.S and elsewhere, namely bandwidth and the size of the population covered by the license.

Once we determined that the Canadian AWS spectrum license prices far exceeded comparable values, it became important to identify what caused this overpayment. The econometric models take into account and control for any technological differences between various types of spectrum and the obvious differences in demand and supply conditions among Canada, the U.S., and other countries. Furthermore, the spectrum offered in Canada was technologically identical to the spectrum offered in the 2006 U.S. AWS auction, where licenses sold for much less than the Canadian licenses. In addition, the high price of spectrum in the Canadian auction is contrary to historical patterns because Canadian spectrum has generally sold for less than spectrum in the U.S. When deriving the expected value of the Canadian AWS spectrum, we implicitly assumed





^{1.} To the best of our knowledge, the 331 rounds in a global record for spectrum auctions.

^{2.} The econometric models are ordinary least square models, estimating the functional relationship of the final bid amount and the license attributes. The models rely on a comprehensive database with over 2,300 observations from previous AWS and other auctions in the U.S, Norway and Sweden

^{3.} For instance, the average price per MHz-Pop in the U.S. AWS auction was CAD 0.57, while the Canadian mean prices per MHz-Pop were CAD 1.26 and CAD 1.78 for restricted and unrestricted AWS spectrum, respectively.

that the spectrum in Canada was to be allocated in exactly the same fashion as elsewhere. However, this was not the case because the Canadian auction design and the licensing terms and conditions differed from other countries. Consequently, it is reasonable to conclude that the valuation premium observed in Canada is at least partially, if not fully, the result of the specific design used for the Canadian AWS auction.

Having looked at the value of the spectrum, we now turned to the economic consequences of the record high spectrum prices. As evidenced in the UK 3G (third generation) auction and other 3G auctions in the early 2000s, excessively high spectrum prices can negatively affect competition, as investors tend to sell their holdings when earnings decrease and/or debt ratings drop. In severe cases, it can lead to market exit (as evidenced by the fallout of the UK 3G auction) or market consolidation because weaker market participants go bankrupt or are acquired by a more solvent company, all of which has a direct effect on competition.

This last point is particularly critical for the Canadian wireless sector that after many years of significant net investment and negative cumulative wireless cash flows has just recently been able to offset its investments and carrying charges. The network investment requirements for AWS aside, the CAD 4.26 billion spectrum price will undoubtedly reverse this development and return the Canadian wireless industry to an era of negative annual and cumulative cash flows.

In essence, the outcome of the Canadian AWS auction is a repeat of the 3G auction outcome in the UK and other European countries as the cost of the licenses is the cost of staying in business. If the Canadian AWS auction design was responsible for the extremely high prices of the spectrum licenses, it could harm the very policy objectives that Industry Canada strives to achieve if the same auction design were to be used for future Canadian spectrum auctions.

To mitigate any future harm to competition that might have been caused by the auction design, we looked at all aspects of the auction design for possible problems. In particular, we examined the preferential treatment given to entrants in the Canadian AWS auction. Generally, preferential treatment of any bidding party carries a significant risk. Most importantly, it can lead to inefficient market entry. For this reason, before implementing an auction design that favors some bidders over others, it is necessary to balance carefully the costs and benefits of such programs or any regulatory intervention whatsoever. Specifically, if wireless markets are deemed competitive, the potential risk of harming competition through regulatory intervention outweighs the potential benefits of sustaining and enhancing competition. Even if it were to be determined that wireless markets are not competitive, the cause of the lack of competition must be examined. Simply adding more players to a market that is noncompetitive does not guarantee more competition. It is not entirely clear what Industry Canada was concerned about when it decided to establish set-asides and mandatory roaming and tower sharing provisions. The regulator provided no analytical findings demonstrating the necessity and expected benefits of these regulatory tools. However, these provisions do appear to have had a major effect on the prices of the licenses.

^{4.} In competitive markets, no one single seller (or buyer) has the power to affect the market price of a service (or good). To determine the level of competition in a market, economists examine, among others, price levels, pricing trends, market shares, market share trends, abilities to collude, and market concentration.

The main component of the preferential treatment was the set-aside provision—spectrum reserved for entrants. A set-aside provision is not new to auction design and has often been discussed in the economic literature, which frequently points out the economic flaws. For instance, some economists have found that set-asides are unproductive and encourage inefficient entry into wireless markets. Most regulators also seem to have grown increasingly careful with their use of a set-aside provision in spectrum auctions. For instance, the U.S. Federal Communications Commission has refrained from using set-asides and comparable provisions in its more recent auctions, including the 2008 700 MHz auction. Furthermore, even when set-asides were used, they were typically restricted to a small percentage of the available spectrum. To the best of our knowledge, there is no precedent for reserving 40 of 90 MHz, or 44 percent of the spectrum, for entrants, which was the case in the Canadian AWS auction.





From a theoretical perspective, the set-aside provision in the Canadian AWS auction resulted in a double tax for the incumbents. First, set-asides decrease the supply of spectrum available to incumbents, other things being equal. Second, as implemented in Canada, the set-aside provision artificially raised the demand for spectrum because the entrants were allowed to place bids on unrestricted spectrum with no intention of buying, but with the objective of increasing the prices the incumbents would have to pay. We refer to such behavior as "fake bidding."

While a reduction in supply is purely an economic fact, proving that the entrants engaged in fake bidding is more complicated. Auction behavior depends on many factors including, among other things, auction strategy, financial strength, dynamics and results from preceding auction rounds, and economically rational or irrational behavior. In addition, auction eligibility rules require that bidders maintain a certain level of activity. Thus, what might appear to be a fake bid may in fact be a bid to maintain eligibility. This type of behavior is referred to as "parking of points." Therefore, identifying fake bidding is prone to Type I errors—or "false positives." Nevertheless, fake bidding can be identified with reasonable accuracy. Specifically, when an entrant bids on an unrestricted license and does not bid on the identical set-aside, it is likely an example of fake bidding. Similarly, when an entrant bids on an unrestricted license even though it could acquire an equivalent set-aside license at a lower (often much lower) price, it is also potential fake bidding. With some possible exceptions, this type of bidding is irrational—it makes no economic sense—because economic behavior would dictate the purchase of the less expensive license. We identified many instances of fake bidding where entrants bid on unrestricted spectrum in the late rounds of the auction even though restricted spectrum was available for a fraction of the price. While there are many more instances, our report highlights 17 licenses for unrestricted spectrum where the final prices were clearly driven up by fake bidding in later rounds. Some might argue that these were simply bidding mistakes, but this does not seem to be the case as the entrant's final purchase was almost always the cheaper restricted license.

^{5.} See, for instance, Thomas W. Hazlett and Babette E.L. Boliek, "Use of Designated Entity Preferences in Assigning Wireless Licenses," Federal Communications Law Journal 51, 640, or Robert W. Crandall and Allan T. Ingraham, "The Adverse Economic Effects of Spectrum Set-Asides," Canadian Journal of Law & Technology, Vol. 6, November 2007, 131–140, n19.

^{6.} We refer to entrants and incumbents in the same manner as Industry Canada. This is not to say that we agree necessarily that there are only three wireless incumbent providers in Canada.

The set-aside provision also provided entrants with a possible strategic advantage because it allowed them to bid on open spectrum to maintain eligibility, while waiting for competitive entrants to drop out of the bidding. The consequences of this strategy are at least threefold. First, it results in an increase in the incumbents' license prices. Second, it jeopardizes one of the most fundamental auction design features, the eligibility rule. Third, it likely explains the record number of rounds it took to complete this auction.

Industry Canada's definition of an "entrant" intensified the effect of both the set-aside and fake bidding. Industry Canada determined that all bidders with less than 10 percent of the national wireless market would be considered entrants. In practicality, this meant that only Rogers, TELUS, and Bell Canada were subject to restrictions. All other bidders received preferential treatment. Defining an entrant on its national market share is shortsighted. First, it fails to consider regional incumbents, such as SaskTel and MTS that might have an incentive to enhance their regional market positions. Second, the definition fails to consider competition from wireless, wireline, satellite, and especially converged players, which are often large, well-capitalized firms with strong customer relationships, such as Shaw and Videotron that compete directly with the three nationwide incumbents. Third, the definition seems inconsistent with the market definition used by the Canadian Competition Bureau that confines its definition to provincial, not national. It appears that Industry Canada failed to assess the incentive of so-called entrants to raise the incumbents' costs, which they clearly did. Consequently, the failure to classify at least some of the larger, regional entrants as incumbents made it easier for them to protect and strengthen their current market position at the expense of the nationwide carriers.

Based on these findings, we recommend that the design used for the Canadian AWS auction be modified for future auctions. In particular, we recommend the following modifications:

- 1. Carefully balance the costs and benefits of regulatory intervention, whatever type it may be. The Canadian wireless sector has strong signs of competition. By intervening unnecessarily in this sector, Industry Canada runs the risk of damaging competition. Moreover, encouraging entry will not automatically lead to more competition in the Canadian wireless market as the market might have reached a natural equilibrium.
- 2. If Industry Canada finds that regulatory intervention through preferential treatment is necessary (i.e., market forces are not working properly):
 - a. It must ensure that the benefits of any such measures are limited to actual entrants—not regional or converged competitors. Rather than defining entrants based on market shares in a narrowly defined market, it might be more appropriate to define entrants based on their purchasing power, that is, average annual gross revenues.
 - b. It should focus on ex-post benefits, such as tax incentives, rather than ex-ante benefits, such as spectrum caps and the set-aside provision used in the Canadian AWS auction. Ex-post benefits are awarded only to successful bidders (i.e., actual entrants), while ex-ante benefits award all auction participants that qualify for the preferential treatment. Focusing on ex-post benefits will minimize the negative side effects of preferential treatment as it removes arbitrage opportunities for parties that do not seek to establish themselves in the market over the long run. Moreover, it will likely result in fewer auction rounds because the benefits are only awarded to new entrants.

- 3. Any benefits awarded to entrants should not come at the expense of the incumbents which was the case in the Canadian AWS auction. That is, instead of forcing incumbents to subsidize entrants (by restricting them from bidding on set-aside spectrum) and subjecting them to extensive gaming, which further raises their costs, Industry Canada should directly market failure).
- 4. Industry Canada must strive to minimize the side effects of any regulatory intervention. As evidenced in the economic literature, international best practices, and from actual measures should be considered, such as bidder credits like those used by the FCC in its recent spectrum auctions.

Introduction

On May 27, 2008, Industry Canada, the organization under the Minister of Industry that is responsible for spectrum management, made 105 megahertz (MHz) of radio spectrum available to mobile service providers. Ninety MHz of this spectrum was for new advanced wireless services (AWS), which include high-speed Internet, video, cell phones, and BlackBerrys. Fifty MHz of the AWS spectrum was made available to all providers, and 40 MHz was set aside for new entrants. The 2008 Canadian AWS auction was a simultaneous, multiple-round ascending type auction conducted over the Internet. The auction, which ended July 21, 2008, lasted a record 331 rounds, and 282 of the 292 licenses offered were provisionally attributed, generating total revenue of CAD 4.26 billion.

The spectrum for the Canadian AWS licenses was identical to the spectrum that was sold in 2006 in the U.S. AWS auction. Thus, based on the results from its neighboring country, Canadian analysts expected that the auction would earn between \$1 and \$1.5 billion for the government treasury.⁷ In the past, Canadian spectrum sold for significantly less than U.S. spectrum. To the experts' surprise, however, the Canadian AWS auction resulted in the AWS licenses being sold at prices almost threefold those anticipated—CAD 4.18 billion.8

While some media outlets described the auction as a success, the high prices paid for the licenses raise at least two important questions. What are the economic consequences of the record high spectrum prices? Why did Canadian AWS spectrum sell at a significant premium over U.S. AWS spectrum when prior economic evidence suggests the opposite?







subsidize entrants if, and only if, such a subsidy is economically justified (i.e., there is a risk of

auction experiences, including Canada's, set-aside provisions are inefficient and can harm competition. Therefore, we recommend that Industry Canada refrain from using set-aside provisions in future auctions. Instead, where justified by market circumstances, alternative

^{7. &}quot;Canadian AWS Auction is On," Dailywireless.org, May 27, 2008, http://www.dailywireless.org/2008/05/27/7796. We understand that these forecasts were only for AWS blocks (A-F).

^{8.} AWS licenses included blocks A-F.

The objective of this statement is to provide some answers to these two important questions, which in turn should be useful to Industry Canada in the design and implementation of future spectrum auctions. This statement does not attempt to quantify the specific financial and competitive impact of Industry Canada's spectrum rules and licensing conditions. Instead, it is an effort to identify the contributing factors that might explain the observed valuation premium.

As we show in this paper, the Canadian AWS spectrum sold at a significant premium over comparable U.S. and non-U.S. spectrum. High spectrum prices are not necessarily a catalyst for competition. In fact, excessively high prices, and particularly repetitively high prices (if the particular auction design were to be repeated for the upcoming 2.5 GHz and 700 MHz auctions), can significantly harm competition and delay the rollout of new, innovative services. The preferential treatment of entrants was a key contributing factor in the premium paid for Canadian AWS spectrum. In particular, the preferential treatment of entrants, via set-aside licenses, carries a significant risk because it fundamentally distorts the market forces underlying spectrum auctions. Additionally, several examples from the economic literature and from recent international experience identify set-asides as inefficient tools for promoting competition.

The set-aside provision results, among other things, in a "double tax" for the incumbents because it decreases the supply of spectrum available to them and artificially increases the demand for unrestricted spectrum—the only spectrum available to the incumbents. As set up in Canada, it also enables entrants to bid on unrestricted spectrum without any intention of purchasing it, thereby inflating prices by forcing the incumbents to compete with higher bids. Because entrants were allowed to withdraw their bids, they could do so with near impunity. The financial burden created by the set-aside provision was intensified by the flawed definition of an entrant, which provided a financial windfall for regional players, rather than actual entrants.

Several enhancements could be made to the design used in the Canadian AWS auction. The most important of these would be to conduct a careful analysis of current and projected competition before designing the auction. Then, there would be sufficient information available to determine if it is economically sound to give favorable treatment to any particular bidding party. Even if it is determined that preferential treatment is necessary, there are more effective competition-enhancing measures than set-asides. In addition, the definition of an entrant should be revised to encourage the entry of new, innovative operators, rather than allowing regional players and well-capitalized cable operators, some of whom already sell wireless services to enhance their regional market positions.

^{9.} Bidders that withdrew a bid were financially liable for the price decrease, if the bidding for the license ended at that point. Hence, there was a non-zero risk associated with bid withdrawal.

AWS Spectrum Commanded a Significant Premium

The spectrum licenses sold at auction were in Tier 2 and 3 service areas across Canada. The AWS spectrum was offered in six blocks: three blocks of 2x10 MHz and three blocks of 2x5 MHz in the 1710–1755 MHz and 2110–2155 MHz range. Industry analysts and members of the media all seem to agree that the Canadian AWS spectrum sold at prices much higher than anticipated. For instance, five days into the auction, CBC News reported, "[a]fter 16 rounds of bidding, the auction has already greatly surpassed the \$1 billion to \$1.5 billion many analysts had expected it would net." Similarly, Communications Daily stated, "[t]he auction brought in CAD 4.25 billion, nearly three times the totals analysts projected last year." In addition, an industry analyst stated that regulators were "grinning from ear to ear" as the final auction revenue was "roughly double to triple what most people expected."







In order to verify these statements and thus the estimates of overpayment for the licenses, we calculated the value of the Canadian AWS spectrum that was offered in the auction relative to comparable spectrum offered in other countries, mainly the U.S. One would expect that, if AWS spectrum sells for a particular price in the U.S. (and other developed countries), this value would be indicative (albeit not necessarily identical) of the value of the spectrum in Canada. In fact, based on historical evidence, Canadian spectrum values might be *below*, not above, comparable U.S. values. Hence, having an estimate of the value of other developed countries' spectrum provides a baseline for exploring the impact of the design used in the Canadian AWS auction on revenues.

Calculating the Value of Spectrum

Using econometric techniques, we forecasted the value of the Canadian AWS spectrum based on the value of identical (AWS) and similar (700 MHz and 2.6GHz) licenses in the U.S., Norway, and Sweden. Recognizing that geographic areas, demand and supply conditions, and various other attributes might influence the value of a license, we controlled for these differences in our analysis. Specifically, we built a comprehensive database consisting of over 2,300 observations from the 2006 U.S. AWS auction, the 2008 U.S. 700 MHz auction, the 2007 Norwegian 2.6 GHz auction, and the 2007 Swedish 2.6 GHz auction. Each observation represents a license in one of these auctions and includes the following variables:¹⁴

- Area
- · Auction type
- Block
- Country GDP

- Auction set-aside dummy
- Auction year
- Country
- Employment percentage

^{10.} There was also one block of 2x5 MHz in the 1910–1915 MHz and 1990–1995 MHz range for PCS and one block of 5 MHz in the 1670–1675 MHz range sold at auction

^{11. &}quot;Spectrum Auction at \$2B and Counting," CBC News, June 2, 2008.

^{12.} "Major Incumbents, Challengers Win Big in Canadian AWS Auction," *Communications Daily*, July 22, 2008.

^{13.} Ibid

^{14.} See Appendix A for the database.

- Final license bid amount
- License bandwidth
- License population over 16
- Market name
- Mobile data ARPU
- Mobile voice ARPU
- · Number of licenses offered
- Population
- Unemployment percentage

- Household income
- License length (years)
- · License set-aside ID
- Median family income
- · Mobile penetration
- Name of winning party
- Number of registered bidders
- Population density

Using an ordinary least squares (OLS) regression method, we estimated the functional relationship of the final bid amount (the dependent variable) and the license attributes outlined above (independent variables). One of the strongest of these models was the following, rather simple, linear relationship:

$$C_{ib} = \alpha (POP_i^*MHZ_b) \tag{1}$$

Where $C_{i\,b}$ is the final bid amount for geographic area i and block b, POP_i is the population in geographic area i, and MHZ_b is the bandwidth size of the auctioned block b. Expressed in words, this model suggests that the cost of a spectrum license is a function of the product of bandwidth, population, and a coefficient. The product of the population covered by a license and the license's bandwidth is one measure of the "quantity" of spectrum offered by a license.

Estimating equation (1) above with the 2,300 observations from the 2006 U.S. AWS auction, the 2008 U.S. 700 MHz auction, the 2007 Norwegian 2.6 GHz auction, and the 2007 Swedish 2.6 GHz auction yields the following results:

$$C_{ib} = 0.757(POP_i^*MHz_b) \tag{2}$$

The regressor is statistically significant at the 5 percent level or better. The R² of the regression is 0.65 with 35 percent of the variation in auction prices unexplained by the equation or the other variables.

By estimating equation (1) on only the 1,082 observations from the U.S. AWS auction, the explanatory power of the model, as measured by the R^2 , increases to 0.845, leaving only approximately 15 percent of the price variation unexplained. The fitted model is as follows:

$$C_{ib} = 0.747(POP_i^*MHZ_b) \tag{3}$$

The results indicate that the winning license bid amount increases proportionally with the product of population and license bandwidth. These findings are consistent with previous econometric studies, as well as common sense. For instance, in calculating the value of the unencumbered AWS-III spectrum in the U.S., the Phoenix Center for Advanced Legal and Economic Public Policy Studies finds that that the "final gross bid of the auction" is a function of block size and population (megahertz-pop or MHz-pop) as well as a number of other variables. 15 In fact, calculating the value of the unencumbered AWS-III spectrum in the U.S. based on equation (3)

Similarly, analyst reports, investment firms, and the literature on spectrum prices frequently refer to and compare prices (or costs) per MHz-pop, a measure of spectrum quantity adjusted for the potential population it can serve, in deriving the value of a particular spectrum band or license. For example, as pointed out by Crandall and Ingraham, the product of bandwidth and population "is commonly used to define the 'quantity' of spectrum won." 16 Hence, equation 3 above simply states that the cost of a license is a product of price and quantity and can be rewritten as:

$$C_{i,b} = 0.747 * Q_{ib} (4)$$

A slightly stronger model is the quadratic form of the relationship in equation (1). That is, adding a quadratic interaction term produces the following equation:

$$C_{i,b} = \alpha(POP_i^*MHz_b) + \beta(POP_i^*MHz_b)^2$$
(5)

Estimating equation (5) above with the 1,082 observations from the 2006 U.S. AWS auction yields the following results:

$$C_{i,b} = 0.606(POP_i^*MHz_b) + 1.89e^{-10}(POP_i^*MHz_b)^2$$
(6)

The regressor is statistically significant at the 5 percent level or better. The R² of the regression is 0.85.





yields results generally consistent with those derived by the Phoenix Center study.

^{15.} G. S. Ford, Calculating the Value of Unencumbered AWS-III Spectrum, PHOENIX CENTER POLICY PERSPECTIVE 08-01, June 2008, 2, http://www.phoenix-center.org/perspectives/Perspective08-01Final.pdf.

^{16.} Robert W. Crandall and Allan T. Ingraham, "The Adverse Economic Effects of Spectrum Set-Asides," Canadian Journal of Law & Technology, Vol. 6, November 2007, 131-140, n19, (Crandall and Ingraham).

Calculating the Value of Canadian AWS Spectrum

In order to calculate the value of the AWS spectrum in Canada, we inserted the relevant values of the Canadian AWS licenses in equation 4 (linear model) and in equation 6 (quadratic model). Based on the linear model, the mean predicted value of the AWS spectrum that was sold in the Canadian AWS auction is approximately CAD 2.04 billion. The 95 percent confidence interval for this prediction is CAD 1.05 to 3.03 billion. The spectrum, however, sold for CAD 4.18 billion, more than twice the estimated value from the linear model. The valuation results, with and without blocks G and I, using the linear model are summarized in Appendix B.

Based on the quadratic model, the mean predicted value of the AWS spectrum that was sold in the auction is approximately CAD 1.68 billion. The 95 percent confidence interval for this prediction is CAD 0.71 to 2.65 billion. Again, the spectrum sold for CAD 4.18 billion, close to 150 percent above the estimated value from the quadratic model. The valuation results, with and without blocks G and I, using the quadratic model are summarized in Appendix C.

Analyst reports, investment firms, and the literature on spectrum prices frequently refer to and compare prices (or costs) per MHz-pop, valuing spectrum by deriving the average price per MHz-pop from a comparable auction and then multiplying the result by the product of MHz and population in the forecasted region. Consistent with the regression forecasts, we use the U.S. 2006 AWS auction as the basis for this third valuation analysis. Dividing the sum of the winning bids of this auction (in 2008 CAD) by the product of MHz and population yields a weighted average of CAD 0.57 per MHz-pop.¹⁹ Multiplying this number by the sum of the product of MHz and population for each AWS license offered in Canada yields a total auction value estimate of CAD 1.53 billion.²⁰ This, in turn, would imply that the AWS spectrum in Canada sold at a premium of approximately 173 percent, i.e., at nearly three times its expected value as reported by the analysts at the conclusion of the auction.

These three estimates are all reasonable and valid methods for valuing the spectrum, each with its own advantages and disadvantages. Hence, in order to provide one overall valuation estimate for the spectrum, we calculated the average predicted value based on these three estimates. In Tables 1–3, we summarize our estimates for the three models. Table 4 presents the consensus estimate, which is a simple average of the prior three estimates.

^{17.} We used the average exchange rate of 1.01201 to convert from U.S. to Canadian Dollars.

^{18.} We note that the above figures do not include blocks G and I, as they were not AWS blocks and thus cannot be accurately forecasted with this regression model. However, both of these blocks were offered in conjunction with blocks A-F and thus might have affected the prices of the AWS blocks. Hence, it is also informative to calculate the mean predicted value of the auction, including blocks G and I. This calculation yields CAD 2.27 billion and when compared to the total auction revenue of CAD 4.26 still indicates an overpayment of 87 percent.

^{19.} We note that not adjusting for inflation will result in a weighted average of CAD 0.55 (USD 0.54) per MHz-pop.

^{20.} Consistent with the previous estimates, this estimate does not include blocks G (1.9GHz) and I (1.6GHz), which are not AWS blocks.

Table 1: Canadian AWS Spectrum Valuation Linear Regression Forecasts in CAD Billion²¹

95% Confidence Inte

	Actual	Predicted	Overpayment	Lower	Upper
All Licenses	4.18	2.04	104.7%	1.05	3.03
Unrestricted Licenses	2.66	1.13	135.0%	0.31	1.96
Set-Aside Licenses	1.51	0.91	66.9%	0.36	1.46

Table 2: Canadian AWS Spectrum Valuation Quadratic Regression Forecasts in CAD Billion²²

95% Confidence Interval

	Actual	Predicted	Overpayment	Lower	Upper
All Licenses	4.18	1.68	148.5%	0.71	2.65
Unrestricted Licenses	2.66	0.93	186.3%	0.12	1.74
Set-Aside Licenses	1.51	0.75	101.7%	0.21	1.29

Table 3: Canadian AWS Spectrum Valuation Forecasts using Average Prices in CAD Billion²³

	Actual	Predicted	Overpayment
All Licenses	4.18	1.53	172.6%
Unrestricted Licenses	2.66	0.85	212.9%
Set-Aside Licenses	1.51	0.68	122.3%

Table 4: Canadian AWS Spectrum Valuation Consensus Forecasts in CAD Billion²⁴

	Actual	Predicted	Overpayment
All Licenses	4.18	1.75	138.5%
Unrestricted Licenses	2.66	0.97	174.1%
Set-Aside Licenses	1.51	0.78	94.2%

 $^{^{\}rm 21.}\,\mbox{Excludes}$ non-AWS blocks G and I.

^{22.} Ibid.

^{23.} Ibid.

^{24.} Ibid.

As illustrated in Figures 1-3, the overpayment is most pronounced for the unrestricted spectrum, although both restricted and unrestricted spectrum sold significantly above their mean predicted values.

Figure 1: Canadian AWS Spectrum Valuation and Overpayment All 90MHz AWS Spectrum in CAD Billion

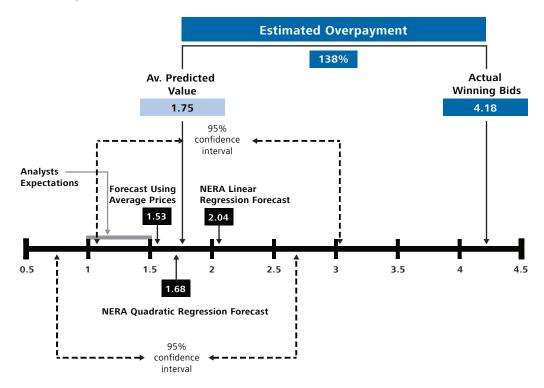


Figure 2: Canadian AWS Spectrum Valuation and Overpayment 50 MHz Unrestricted Spectrum in CAD Billion

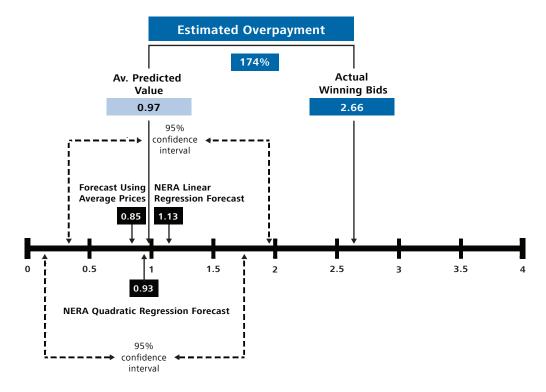
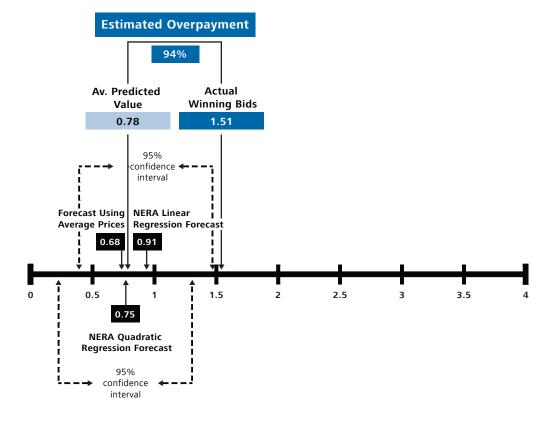


Figure 3: Canadian AWS Spectrum Valuation and Overpayment 40 MHz Set-Aside Spectrum in CAD Billion





By calculating the value of the Canadian AWS spectrum based on observed values from the U.S. AWS spectrum auction, we make two implicit assumptions. First, we assume that the price per MHz-pop in Canada is identical to that in the U.S. Based on historical evidence, this assumption is conservative because historically Canadian prices per MHz-pop were well below U.S. prices for identical spectrum. Furthermore, industry leaders frequently compare the spectrum prices paid in Canada to their U.S. counterparts. For instance, following the auction of 1.9 GHz PCS spectrum in Canada in 2001 which achieved one fourth of the dollars per Mhz-pop that the PCS auction in the US in 2001 achieved. TELUS in a press release stated:

The outcome of today's auction is quite favourable for TELUS, commented Robert McFarlane, Executive Vice President and Chief Financial Officer of TELUS. TELUS Mobility now has approximately 55 MHz of spectrum in all major urban areas of Canada including the valuable Southern Ontario market, and with the largest amount of licensed spectrum of any operator, we have maintained Canada's leading wireless spectrum position. TELUS Mobility acquired this additional spectrum at an attractive price, particularly when compared to what U.S. wireless operators paid in U.S. spectrum auctions, which ended last week.²⁵

As illustrated in Table 5, however, using the linear regression model or the average price method for comparative purposes reveals that the Canadian AWS spectrum license prices far exceeded the AWS license prices paid in the U.S. Specifically, the linear regression model indicates that the U.S. AWS auction commanded a price of CAD 0.76 per MHz-pop. In stark contrast, the same model indicates that the Canadian AWS auction commanded prices of CAD 1.49 and CAD 2.36 per MHz-pop for the restricted and unrestricted AWS spectrum, respectively. Interestingly, using the linear regression model to explain the differences in license prices for the Canadian AWS auction yields an R² of 0.92 and 0.94 for set-aside and unrestricted spectrum, respectively. This strongly indicates that, although prices in the AWS auction in Canada were much higher than prices in the AWS auction in the US, the prices are broadly determined by the same variables (i.e., bandwidth and population) in the U.S. and elsewhere. Using the mean price method, described above, confirms the above analysis. Specifically, the average price per MHz-Pop in the U.S. AWS auction was CAD 0.57, while the Canadian mean prices per MHz-Pop were CAD 1.26 and CAD 1.78 for restricted and unrestricted spectrum, respectively.

Table 5: MHz-pop Spectrum Prices U.S. vs. Canada²⁶

		Mean Price Method		Linear Regression Model			
Auction	Licenses	Price per	MHz-Pop	Price per	MHz-Pop	t-Stat	Adj. R²
U.S. AWS	1,082	CAD0.57	USD0.56	CAD0.76	USD0.75	76.89	0.85
CAN AWS Unrestricted	177	CAD.78	USD1.75	CAD2.36	USD2.33	52.88	0.94
CAN AWS Set-Aside	87	CAD1.26	USD1.25	CAD1.49	USD1.47	32.43	0.92

^{25.} TELUS, "TELUS Mobility Maintains Canada's Leading Wireless Spectrum Position," *TELUS Press Release*, February 2, 2001, http://about.telus.com/cgi-bin/media_news_viewer.cgi?news_id=206&mode=2&news_year=2001.

^{26.} Canadian forecasts do not include blocks G and I.

Second, when using the results of the U.S. AWS auction to forecast the value of the Canadian AWS spectrum, we assumed that the spectrum in Canada was to be allocated in the exact same fashion as in the U.S. However, this was not the case because both the auction design and the licensing terms and conditions were significantly different in the two countries. Logically, if:

- 1) Canadian AWS spectrum is identical to U.S. AWS spectrum.
- 2) Canadian spectrum typically commands a lower price than U.S. spectrum.
- 3) Canadian AWS auction design is different from U.S. AWS auction design.
- 4) Canadian AWS spectrum sold at a significant premium over U.S. AWS spectrum.

It is reasonable to conclude that the valuation premium observed in Canada was at least partially, if not fully, the result of the design (including the licensing terms and conditions) used for the Canadian AWS auction.



High Prices Jeopardize Policy Objectives

Industry Canada's policy objective for managing radio spectrum is "to maximize the economic and social benefits that Canadians derive from the use of the radio frequency spectrum resource." Finding that there may be "less competition in the Canadian wireless market than in the U.S. market, which consequently has resulted in higher prices, less innovation, lower uptake and lower rates of usages," Industry Canada sought to use this auction to induce competitive facilities-based entry and to sustain and enhance competition. ²⁸

Specifically, Industry Canada stated:

... the current market structure is such that the loss of a national or regional facilities-based carrier, either wireline or wireless, could be sufficient to remove, in one or more regions of Canada, the conditions established by the Governor in Council for the deregulation of local telephone service. Ensuring opportunities for new facilities-based entrants into telecommunications markets is therefore an important policy issue.²⁹

Another (related) policy goal was to create more competition:

The department is of the view that notwithstanding that wireless markets in Canada are competitive at this time, market conditions are such that establishing measures for the auction for AWS spectrum licences to sustain and enhance competition is warranted.³⁰

In addition, while Industry Canada was careful not to promise a certain outcome, it stated:

In taking the measures outlined in this paper, Industry Canada recognizes that it can guarantee neither new entry nor success of eventual new entrants. The measures being taken are intended to ensure an opportunity for entry by addressing the potential to exploit spectrum as an entry barrier. The department is satisfied that the potential benefits of new entry warrant these measures. Conversely, the department is also satisfied that in the absence of these measures, there exists a potential that reliance on market forces alone may serve to unduly restrict market entry, which could reduce innovation to the detriment of the industry's advancement and, ultimately, to wireless users across Canada.³¹

^{27.} 2GHz Auction Framework, 1.

^{28.} Ibid., 2.

^{29.} Ibid., 4.

^{30.} Ibid. 4

^{31.} Ibid.

Consequently, Industry Canada adopted an auction design that incorporated specific regulatory measures, most of which favored regional players, cable operators, and new entrants. First, it implemented spectrum set-asides—40 MHz of AWS spectrum in frequency blocks B, C, and D were reserved for "new entrants." New entrants were defined as "an entity, including affiliates and associated entities, which holds less than 10 percent of the national wireless market based on revenue." Second, Industry Canada's licensing terms included unprecedented mandatory roaming provisions that were retroactive to all existing mobile spectrum licenses. Thus, the incumbents are required to make roaming available to an entrant inside the entrant's license area "at commercial rates for a period of 5 years while the licensee builds out its network" and for the term of the license outside the entrant's license area. Third, it mandated "antenna tower and site sharing." Finally, the licenses auctioned were flexible; they carry an initial 10-year term, and they can be transferred, resold, or partitioned. The only restriction in this respect was that set-aside spectrum could not be sold to incumbents for a period of five years. As shown above, this particular auction design resulted in an overpayment of approximately CAN 2.4 billion by the auction participants, the incumbent wireless providers in particular.





Some might argue that the auction was a success because it extracted the bidders' maximum willingness-to-pay. However, as heavily debated in the economic literature, higher auction revenue is not necessarily welfare maximizing.³⁵ Industry Canada seems to share this view as it specifically states that the objective of the auction "is not to raise revenue, rather it is to award licences fairly, efficiently and effectively so as to ensure that the Canadian public derives the maximum possible benefit from the spectrum resources."³⁶ Thus, with this policy objective in mind, it is important to study and understand the economic consequences of the record high spectrum prices generated by the Canadian AWS auction design. Only then can one answer the question of whether the auction met the policy objectives.

A basic economic principle is that sunk costs are not relevant to rational decision making.³⁷ As described in a popular introductory economics textbook, a "sunk cost is like spilled milk: once it is sunk, there is no use worrying about it, and it should not affect any subsequent decisions."³⁸ Similarly, economists have argued that spectrum license payments are one-time fixed fees that are sunk. Thus, they should not affect consumer prices or be taken into consideration when deciding what types of services are to be offered to consumers. While the literature of behavioral economics is replete with discussions on the concept of sunk cost, the application and consequence to spectrum license payments have been repeatedly challenged.³⁹ Similarly, in the wake of the high spectrum prices generated by the 2000 UK 3G auction, British operators and

^{32.} Ibid., 5.

^{33.} Ibid., 8

^{34.} Ibid., 8

^{35.} See, for example, Costas Courcoubetis and Richard Weber, "Pricing Communications Networks: Economics, Technology and Modelling," John Wiley and Sons, 2003, 324.

^{36.} Spectrum Management and Telecommunications, Industry Canada, "Questions and Answers – Framework for Spectrum Auctions in Canada," http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf01854.html.

^{37.} Sunk costs are costs that cannot be recovered when a firm leaves an industry, see *MIT Dictionary of Modern Economics*. s.v.

^{38.} Dennis W. Carlton and Jeffrey M. Perloff, *Modern Industrial Organization*, Third Edition, Addison-Wesley, 1999, 28.

^{39.} See, for example, R. Preston McAfee, Hugo M. Mialon, and Sue H. Mialon, "Do Sunk Costs Matter?" April 7, 2007, working paper, http://www.suemialon.com/research/RevisedSunkCostsMatterApril2007.pdf.

industry analysts argued that the high spectrum prices would lead to a delayed 3G rollout and higher retail prices. Consequently, the government was pressured to refund some of the auction money to the industry. ⁴⁰ Furthermore, experts have blamed the high 3G spectrum prices collected in auctions throughout Europe on the downfall of the telecommunication sector. For instance, British Telecom (BT) Ignite's CEO Alfred Mocket stated, "the huge price paid by telcos in order to get their hands on spectrum has had an impact on the current slump in the telecoms market." Mocket continued:

The auction was played in an artificial market and operators paid twice as much for licences than they would for building the networks. We were obliged to bid or face becoming a bit player in our own market. The cost of the licence was the cost of staying in business.⁴¹

In fact, in an effort to lower its high debt burden following the UK 3G auction, BT was forced to spin off its wireless operation, BT Wireless. Hence, high spectrum prices can actually lead to less competition because it can force operators to exit the market.

It is worthwhile noting that the UK 3G auction used a similar design to the Canadian AWS spectrum auction. In particular, both of these auctions relied on set-aside provisions in an effort to promote competition. Importantly, however, the UK auction had only one national set-aside license, unlike the Canadian AWS auction, which reserved three of six blocks in 59 service areas for entrants.

In light of the economic repercussions due to the high spectrum prices collected in auctions in Europe, regulators in a number of Asian countries revisited their particular spectrum allocation mechanisms in an attempt to avoid a repeat of the UK 3G auction. For instance, the regulator in Singapore delayed its 3G spectrum auction because it was reportedly concerned "over debt and falling share prices in telecoms companies due to the spectacular prices fetched by 3G spectrum auctions in Europe."

Regardless of whether spectrum license payments are considered sunk costs that should be ignored in forward-looking pricing decisions, it is generally agreed that high spectrum payments can have negative consequences on mobile services. As evidenced in the EU 3G auctions, high auction prices can lead to a drop in the operators' stock prices because investors tend to sell their holdings when there is a decrease in earnings and/or a decrease in debt ratings. This problem can be particularly severe for entrants as, at times, their limited (or nonexistent) cash flows make it particularly difficult to attract new funding, which can lead to delayed rollouts, reductions in service quality, reduced R&D, or a combination of these factors. In severe cases, it can lead to market exit (as evidenced by the exit of BT Wireless) or market consolidation because weaker market participants go bankrupt or are acquired by a more solvent company, all of which has a direct effect on competition.

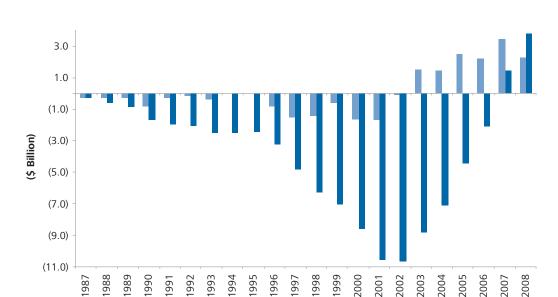
^{40.} Nigel Seel, *Business Strategies for the Next-Generation Network*, Auerbach Publications, 2006, Chapter 10, 2.

^{41.} Jane Wakefield, "BT accuses government of 3G tax," ZDNet.co.uk, May 10, 2001, http://news.zdnet.co.uk/internet/0, 1000000097,2086122,00.htm.

^{42.} Susie Helme, "What's the Hold Up," Mobile Communications International, February 1, 2001, http://www.allbusiness.com/computer-electronic/communications-equipment/1001085-1.html.

This last point is particularly critical for the Canadian wireless sector. As shown in Figure 4, after many years of significant net investment, negative annual wireless cash flows, and negative cumulative cash flows, the Canadian wireless industry has just recently been able to generate positive cash flows and offset the initial investments and carrying charges. The network investment requirements for AWS aside, the CAD 4.26 spectrum price will undoubtedly reverse this development and return the Canadian wireless industry to the era of negative annual (and cumulative) cash flows.

Figure 4: Canadian Wireless Industry Cash Flow, 1987-2008



Annual Wireless Cash Flows

■ Cumulative Wireless Cash Flows



Consequently, excessively high spectrum prices can negatively affect competition, prices, service deployment, and quality of service. This risk is particularly pronounced in Canada where all winning parties, including the entrants, appear to have grossly overpaid in the recent AWS auction. As such, this particular auction design has the potential to harm the very policy objectives that Industry Canada strives to achieve, particularly if used again for future Canadian spectrum auctions.

Preferential Treatment

Preferential Treatment of Entrants Carries a Significant Risk

Many recent spectrum auctions around the world have used a simultaneous, multiple-round ascending auction format. The Canadian AWS auction was no different; however, it differed in two respects from the other auctions. Specifically, the Canadian auction included an unprecedented large set-aside provision and introduced mandated tower sharing and roaming retroactively to all Canadian mobile spectrum licenses. Because our previous finding was that the valuation premium observed in Canada was partially (if not fully) a result of the auction design and the specific conditions of license (COL), it follows that these differences are likely the underlying cause of the large valuation premium.

As Egyptian billionaire Naguib Sawiris points out, other factors that make the Canadian market attractive (and that might explain the high spectrum prices) are "lower penetration, an unaddressed prepaid market and friendly network roaming agreements."43 Although these factors cannot entirely be ruled out as reasons for the overpayment, it is unlikely that they are the principle contributing factors. Lower relative penetration rates have existed for a long time and so far have never caused Canadian spectrum to sell at a premium relative to U.S. spectrum. Furthermore, the reference to an unaddressed prepaid market is presumably inferring that there is an opportunity to compete on price. However, per the Canadian Radio-television and Telecommunications Commission (CRTC), Canada's average revenue per minute (ARPM) metric is among the lowest of all the OECD countries. 44 Furthermore, as evidenced in the U.S. market, the prepaid sector is mainly served by mobile virtual network operators (MVNOs) that are typically not facilities-based, so they do not own spectrum. In addition, the "friendly network roaming agreements" to which Mr. Sawiris alludes, we can only assume refer to the expected direct consequence of the new and unprecedented mandated roaming COLs introduced as part of the AWS rulemaking. Others might argue that the overpayment is due to careless bidding strategies and practices by the bidders. However, as we explain below, this is a less than plausible explanation because history does not confirm this. Moreover, it would not explain why everyone overpaid, incumbents and entrants alike.

In providing entrants with preferential treatment through set-asides and mandatory roaming and tower sharing, Industry Canada attempted to prevent the incumbents from foreclosing entry or raising the entrants' costs. Specifically, Industry Canada found that "incumbents have an incentive to pay a premium for spectrum to prevent entry." Hence, the regulator implemented the preferential treatment provisions with the intent "to ensure an opportunity for entry by addressing the potential to exploit spectrum as an entry barrier." However, as we explain below, the department seems not to have considered the "flip-side" of its program; that is, the arbitrage opportunity the preferential treatment provisions created for entrants.

^{43.} David George-Cosh, "Meet Canada's Newest Wireless Contender," *National Post*, July 22, 2008.

^{44.} Canadian Radio-television and Telecommunications Commission ("CRTC") Communications Monitoring Report, Section 5.5, 196, http://www.crtc.gc.ca/eng/publications/reports/PolicyMonitoring/2008/cmr2008.htm?Print=True#s55

^{45.} 2GHz Auction Framework, 3.

^{46.} Ibid., 4.

Ignoring for the moment whether Industry Canada's concern was economically justified or even if the specific measures did promote competition, significant costs are associated with the provision of preferential treatment to any party in a competitive bidding process. Chief among these costs is the fact that preferential treatment can lead to inefficient market entry. As we explain in detail below, preferential treatment can also inflict additional harm on incumbent carriers by not only decreasing the effective prices paid by entrants, but also by increasing the prices paid by incumbents. Moreover, there seems to be little evidence, if any, demonstrating that preferential treatment is an effective tool to promote competition. As found by Crandall and Singer:

Despite the best of intentions, United States regulators have not been able to stimulate meaningful local competition through such asymmetric regulation. Moreover, the resultant easy access to capital created wasteful investment by the entrants 47

Moreover, Crandall and Ingraham found, "the U.K. UMTS auction not only revealed that set asides can encourage entry that is not viable, but they also reveal that set asides can subsidize the purchase of the most valuable asset let at auction by the firm that values that asset the least—an outcome that is at odds with the maximization of consumer welfare."

More generally, the success or failure of mobile operators should depend solely on how customers value those providers and the services they offer in the marketplace, not on preferential treatment received when obtaining spectrum licenses and building networks.

Preferential Treatment of Entrants Might Not Be Necessary

Preferential treatment is particularly problematic in competitive environments. In a competitive environment, forcing the entry of new facilities-based wireless carriers through specific auction rules and licensing terms and conditions can lead to an inefficient allocation of spectrum resources. It is not obvious that the entrants needed this type of assistance in overcoming what Industry Canada considered an entry barrier. As evidenced by Egyptian billionaire Naguib Sawiris' financial backing of Globalive—\$500 million—entrants can be in an equally strong or even stronger financial position than the incumbents. In fact, entrant Globalive confirmed its financial strength in a press release stating:

We believe that the experience, global scale and purchasing power of Weather Investments are the pivotal ingredients to Globalive's success as a new national wireless operator in Canada. 49





^{47.} Robert W. Crandall and Hal J. Singer, "Observations on Current Canadian Ownership Debate in Telecommunications," Criterion Working Paper No. 03-02, February 2003.

^{48.} Crandall and Ingraham, 2.

^{49.} Globalive Press Release, "Globalive Well Positioned To Become Fourth National Wireless Carrier in Canada," http://www.globalive.com/?p=52.

In order to determine if entrants need preferential economic treatment, it is necessary to look at what regulatory intervention can accomplish. While the number of competitors often is incorrectly viewed as an absolute determinant of the need for regulation, the main justification for regulatory intervention should be the risk of market failure. A major contributory factor to market failure is the possession of market power by one or more firms. Usually, this power over price is made possible by a firm's ability to affect significantly the market supply of the product by restricting its own output. The corollary of this definition is that, in an effectively competitive or contestable market, no single firm, regardless of its relative size, can expect to charge a supracompetitive price and earn greater than normal profits. In such a market, countervailing forces are likely to defeat an attempt by any one firm to raise permanently the market price above the competitive level. Thus, any justification for regulatory intervention in auctions or other aspects of the telecommunications sector must depend on governments or regulators being able to establish first that the incumbents have the ability to exercise market power and prevent the normal operation of a competitive market from which consumers and society can benefit.

Industry Canada's main motivation for introducing preferential treatment in its AWS auction seems to rest on its concern that there is less competition in the Canadian wireless market than in the U.S. market and that "the loss of a national or regional facilities-based carrier" might remove the conditions necessary "for the deregulation of local telephone services." Despite these concerns, Industry Canada found that wireless markets in Canada were competitive and that preferential treatment was a means of sustaining and enhancing competition. Similarly, the CRTC forbore from regulating wireless services, finding that "such services were sufficiently competitive."

This position, however, raises a number of concerns. First and most fundamentally, if wireless markets are deemed competitive, the potential risks of harming competition through regulatory intervention likely outweigh the potential benefits of sustaining and enhancing competition. This is especially true in situations where preferential treatment is granted at the incumbents' expense, as was the case here. Second, even if wireless markets were to be found not competitive, the cause of the lack of competition must be examined. Simply adding more players to a market that is noncompetitive will not guarantee more competition.

^{50.} Economic theory defines market power as the ability to profitably raise and sustain the price of a product above the level that would prevail in a competitive market.

^{51.} 2GHz Auction Framework, 2, 4.

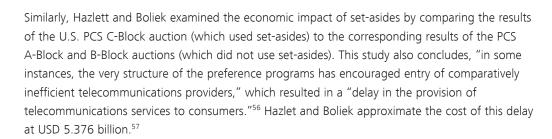
^{52.} Ibid., 4

^{53.} CRTC, "Update to CRTC Telecommunications Monitoring Report – 24 September 2007," http://www.crtc.gc.ca/eng/publications/reports/PolicyMonitoring/2007/tmr2007.htm?Print=True#4.6.

Set Asides

Economic Literature and Regulators Do Not Favor Set-Asides

A key distinction of the Canadian AWS auction relative to other recent auctions was the presence of an unprecedented large set-aside provision. Set-aside provisions are not new to auction design and have been discussed in the economic literature, which frequently points out the economic flaws. For instance, Crandall and Ingraham find, "a set-aside for AWS spectrum in Canada will result in the uneconomic entry that Industry Canada refers to and that there are far more constructive ways than set-aside auctions to promote viable entry into the Canadian wireless industry." The authors point to the failure of set-aside auctions in the U.S. "which tied-up valuable spectrum in bankruptcy litigation for nearly a decade," and the price distortion brought about by set-asides, which "resulted in the costly creation of bidding fronts that incumbent carriers have used to circumvent set-aside rules." Crandall and Ingraham list multiple examples of auctions in the U.S. and the EU that show "set-asides are not a productive way to encourage efficient entry into a wireless market." Set



Cramton, Ingraham, and Singer raise another interesting economic effect of set-aside provisions. These authors describe how the provision caused incumbents to create bidding fronts—companies that qualify to bid on the restricted spectrum, yet are partially owned by incumbent carriers. For example, a bidder called "Alaska Native" was a front for AT&T, and likewise "Salmon PCS" was a front for Cingular. The authors conclude that bidding fronts increased prices for set-aside spectrum by 58 percent, while saving the incumbents supporting the bidding fronts a significant amount of money relative to the alternative when they had to bid on unrestricted spectrum. Sa Sa summarized by the editor of *Telecommunications Policy* in which the study was published:





 $^{^{54.}\,\}mbox{Crandall}$ and Ingraham, 1.

^{55.} Ibid., 12.

^{56.} Thomas W. Hazlett and Babette E.L. Boliek, "Use of Designated Entity Preferences in Assigning Wireless Licenses," Federal Communications Law Journal 51, 640 (Hazlett and Boliek).

^{57.} Hazlett and Boliek, 657.

^{58.} Peter Cramton, Allan T. Ingraham, and Hal J. Singer, "The Effect of Incumbent Bidding in Set-Aside Auctions: An Analysis of Prices in the Closed and Open Segments of FCC Auction 35," *Telecommunications Policy* 32:273–290, April 2008, http://www.cramton.umd.edu/papers2005-2009/cramton-ingraham-singer-incumbent-bidding-in-set-aside-auctions.pdf.

Perhaps unsurprisingly the main finding is that incumbent bidding in the closed auction through fronts enabled more licences to be obtained at lower prices by incumbents. This worked to the disadvantage of non-incumbents who won fewer licences at an inflated premium.⁵⁹

The practical consequence of this statement is that if incumbents can cause an entrant to pay an "inflated premium" when bidding on restricted spectrum (through fronts), the opposite must also be true. That is, entrants bidding on unrestricted spectrum can cause incumbents to pay an "inflated premium." Furthermore, if prices for set-asides are significantly lower than for unrestricted spectrum, then it seems questionable why an entrant would bid on unrestricted spectrum unless the entrant's objective was to increase the premium paid by incumbents. While one would need to conduct a case-by-case analysis, the obvious exceptions to this general conclusion would be situations in which no identical set-aside licenses were available and where an entrant sought to purchase two contiguous licenses.

Finally, Boyer concludes, "ex post benefits awarded only to successful new players would be more efficient than ex ante benefits, such as the currently proposed spectrum 'set-asides.'"⁶⁰ Boyer points out that the economic literature favors auctions over other allocation mechanisms, such as beauty contests and lotteries. He finds, however, that regulators should refrain from ex-ante subsidies to entrants as "there seems to be no economic reason to subsidize entry in the wireless communication services industry given the level of competition already present in the industry..."⁶¹ Boyer argues that while barriers to entry in the wireless market may be substantial, entry alone does not guarantee increased competition. He argues it is "the post-entry conditions, post-entry prices and post-entry profits rather than the corresponding pre-entry levels ... which are the drivers behind the entry strategies of potential competitors."⁶²

In line with the economic literature questioning the necessity, effectiveness, and competitive consequences of set-asides, regulators also seem to have grown increasingly careful with their use of a set-aside provision in spectrum auctions. A classical example of the risks associated with set-asides was the use of such a provision in the U.S. PCS C-Block auction in 1996. As described by Crandall and Ingraham, "the end result of the C-Block auction was that a number of the designated entities with winning bids could finance neither these purchases nor the subsequent costs of building out their networks." However, the FCC continued the use of set-asides in the subsequent re-auctions for C-Block and F-Block licenses. This time, the incumbents created bidding fronts to ensure their participation in the auctions. Therefore, once more, the set-aside provision did not work. Interestingly, even with the failure of the FCC's designated entity program, the agency has since determined that the wireless industry in the U.S. is "effectively

^{59.} Doug Pitt, Editorial, *Telecommunications Policy*, Volume 32, Issues 3–4, 159–162.

^{60.} Marcel Boyer, "Optimal Policy Relative to Spectrum Auction," Montreal Economic Institute, May 25, 2007, 4 (Boyer).

^{61.} Boyer, 29.

^{62.} Boyer, 29, citing himself in: "The Measure and Regulation of Competition in Telecommunications Markets," CIRANO 2005s-35.

^{63.} Crandall and Ingraham, 4.

competitive," supporting the notion that ineffective or unnecessary regulatory intervention is superfluous at best.⁶⁴ The FCC's experience with set asides might also explain why the agency has refrained from using comparable provisions in its more recent AWS and 700 MHz auctions.⁶⁵

Another frequently cited example of the use of set-asides is the UK 3G auction. Lasting approximately seven weeks and 150 rounds, this auction raised a record £22.5 billion in revenues for the government, or €650 per citizen. Similar to the case in Canada, the auction exceeded all expectations and forecasts. As found by Cramton, "a critical choice impacting revenues was the decision to auction five licenses [in the presence of four incumbents]. Five licenses guaranteed that a new entrant would win a license." Furthermore, the UK regulator decided to set the largest license aside for entrants, creating even stronger demand from entrants for this license. As described above, the heavy debt burden created by the high prices raised a number of concerns and made it difficult for winning parties to raise the necessary resources to roll out 3G services across the UK. While opinions differed on who was to blame for the high prices generated by the auction, it is telling that UK regulator Ofcom did not use set-aside provisions in its recent auctions. Furthermore, the economic repercussions of the UK 3G auction caused regulators in a number of Asian countries to delay and revise their auction format.

Set-asides are also at the center of a dispute in the allocation of 3G spectrum in Chile. Chilean regulator Subtel announced that it plans to use a set-aside provision in its upcoming 3G auction. The incumbent operators challenged this provision and received a favorable ruling from an antitrust tribunal who ruled that entrants and incumbents must compete on the same terms and conditions.⁶⁷ While the regulator has opted to implement spectrum caps instead, it further illustrates how regulators face difficulties in successfully implementing this questionable provision and must resort to other tools instead.⁶⁸

Finally, it is also worthwhile noting that Industry Canada itself questioned the effectiveness of set-asides. Specifically, as stated in the auction rules for its 2005 fixed wireless access (FWA) auction for 2300 and 3500 MHz, Industry Canada "found no compelling arguments to demonstrate that a set-aside of spectrum for new entrants would significantly advance new service offerings, nor serve the public interest." While we recognize that the FWA market segment might have different characteristics than the mobile segment, it is nevertheless important to recognize the well documented "side effects" of set-aside provisions.





^{64.} See Federal Communications Commission, *Annual Report and Analysis of Competitive Market Conditions With Respect to Commercial Mobile Services*, WT Docket No. 07-71, FCC 08-28, Feb. 4, 2008, ¶ 1.

^{65.} See Federal Communications Commission, *Notice and Filing Requirements, Minimum Opening Bids, Upfront Payments and Other Procedures for Auction No. 66*, AU Docket No. 06-30, FCC 06-47, April 12, 2006.

^{66.} Peter Cramton, "Lessons Learned from the UK 3G Spectrum Auction," in: *The Auction of Radio Spectrum for the Third Generation of Mobile Telephone*, University of Maryland, May 5, 2001, Appendix 3, 51.

^{67.} TeleGeography's CommsUpdate, "Regulator commits to 2009 auction despite dispute," January 9, 2009, http://www.telegeography.com/cu/article.php?article_id=26719.

^{68.} We note that we do not support the use of spectrum caps as they carry similar negative side effects as set-asides. Most problematically, spectrum caps distort the auction allocation process as they assign the spectrum not to the entity that values the spectrum most, but to the bidder that values it most *and* has not exceeded the spectrum cap.

^{69.} Industry Canada, Policy and Licensing Procedures for the Auction of Additional PCS Spectrum in the 2 GHz Frequency Range, PCS – 2 GHz, June 28, 2000, Amended by: SAB-001-05 - Policy Provisions to Support Licence-exempt Personal Communications Services (LE-PCS) in the Band 1920-1930 MHz and a Moratorium Imposed on the Band 1910-1920 MHz, December 2005, p. 4, http://www.icce.ca/eic/site/smt-gst.nsf/vwapj/10.1e.pdf/\$FILE/10.1e.pdf.

Set-Aside Provisions Result in a Double Tax for Incumbents

Theory

As identified above, the set-aside provision in the Canadian AWS spectrum auction was a key contributing factor to the overpayment for unrestricted licenses. From a theoretical economics point of view, set-asides impose a potential double tax on incumbent carriers. First, set-asides decrease the supply of spectrum available to the incumbents, other things being equal. This, in turn, increases the price for unrestricted spectrum because the number of bidders does not decrease. As stated by Ayres:

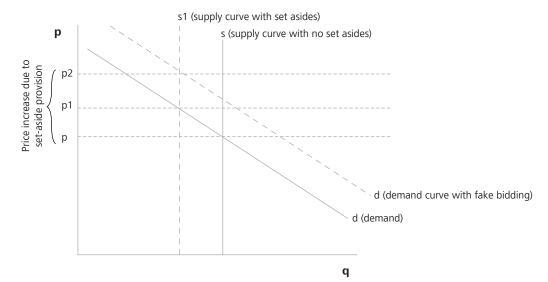
Sellers can induce more competition among strong bidders, and therefore increase auction revenue, by reducing the number of items available to the strong bidders. This is accomplished simply by setting aside one of the licenses to be auctioned only among the weak bidders. The set-aside license will be auctioned for just over \$40, as Weak1 will bid slightly more than Weak2's reservation price. After the set-aside, there are no longer enough licenses to satisfy strong-bidder demand, and these bidders accordingly will bid more aggressively for the remaining license. This remaining license will be auctioned for slightly more than \$90, as Strong1 will bid slightly more than Strong2's reservation price, and \$30 more than it would bid absent the set-aside. Setting aside one license thus raises the government's expected revenue to slightly more than \$130, an increase of \$10. Despite increasing government revenue, the set-aside also reduces the efficiency of the license allocation—as one of the licenses ends up in the hands of a \$60 valuer instead of a \$90 valuer.⁷⁰

Second, the set-aside, as implemented in the Canadian AWS auction, can artificially raise the demand for unrestricted spectrum. This can occur when an entrant places a bid on unrestricted spectrum with no intention of buying it, but to increase the price the incumbent that wins the license has to pay. We refer to such behavior as fake bidding. Critical to the success of an entrant's fake bidding is that the incumbents cannot retaliate by bidding on restricted spectrum and the entrant can withdraw its bid should the incumbents not outbid it. In essence, the set-aside provision allows entrants to drive up artificially the demand for unrestricted spectrum, thus also driving up its price without ever planning to purchase any of the spectrum. Fake bidding can be particularly pronounced if entrants are incorrectly defined (which they were as discussed below) and if the bidder qualifications are low.

Therefore, as illustrated in Figure 5, the set-aside provision, as implemented in Canada, led to a decrease in supply (i.e., a left shift of the vertical supply curve) and an increase (albeit artificial) in demand for the same spectrum (i.e., a right shift of the downward sloping demand curve).

^{70.} lan Ayres, Pervasive Prejudice? Unconventional Evidence of Race and Gender Discrimination, University of Chicago Press, 2001, 326.

Figure 5: Economic Impact of Set-Asides on Open Spectrum







Practice

Understanding and demonstrating the theoretical impact of set-asides is relatively straightforward. However, while the first consequence (i.e., the reduction in supply) is merely an economic fact, proving that the entrants engaged in fake bidding is more complicated. Auction behavior depends on many factors including, among other things, auction strategy, financial strength, the dynamics and results from preceding auction rounds, and economically rational or irrational behavior. Furthermore, auction eligibility rules require that bidders maintain a certain level of activity. Hence, what might appear to be a fake bid may in fact be a bid to maintain eligibility. This, type of behavior is frequently referred to as "parking of points." Thus, identifying fake bidding is prone to Type I errors—or "false positives."

Using the general rule outlined above and then investigating each case individually, one can identify fake bids with reasonable accuracy. Specifically, an instance in which an entrant bids on an unrestricted license without bidding on the identical set-aside is likely an example of fake bidding. One might argue that the bidder is simply parking points. While we cannot rule out this possibility, it raises the question of why the bidder elected to park its points on the unrestricted spectrum rather than the restricted spectrum. One might also argue that this is part of the bidder's strategy because it wants to purchase two contiguous licenses and does not want to reveal its intent. Again, this is a possibility; however, the specific auction results do not seem to provide much support for the existence of such a strategy.

Similarly, when an entrant bids on an unrestricted license even though an equivalent set-aside license is available at a much lower price is also an indication of fake bidding. This type of bidding makes little economic sense because the expected behavior would be to switch from the more expensive to the less expensive block when one block becomes significantly more expensive than the other. We note that this type of behavior is less problematic in the early rounds of an auction when license bids are still well under their predicted values. However, it does become a problem in later rounds when bids approach or exceed the expected values.

While there are many more instances of fake bidding, we highlight here 17 licenses for unrestricted spectrum where the final prices were driven up by fake bidding in later rounds. Consider, for example, the bidding history of service area 304 (Cape Breton). License 304d is a 10 MHz set-aside license. License 304e is a 10 MHz unrestricted license. As shown in Appendix D, between rounds 31 and 117, entrant Bragg continually bid up the price of the unrestricted 10 MHz block, despite the fact that the identical set-aside block was available for as little as one-seventh the price of the unrestricted block. In round 122, Bragg then bid on the restricted spectrum and was outbid by another entrant, Globalive, in round 127. At that point, the restricted license traded at CAD 200,000, while the unrestricted license was at CAD 1,290,000—6.5 times higher than the identical restricted license. Expected behavior for Bragg would be to counter Globalive's CAD 200,000 bid. Yet, Bragg did not do so. Instead, in rounds 128 through 177, Bragg continued to bid on the unrestricted license to a level where the 304e unrestricted license traded at more than nine times higher levels than the set-aside license. In the end, Bragg was outbid by TELUS, which purchased the license for CAD 1,970,000. The restricted license sold for CAD 289,000 (one-seventh of its unrestricted counterpart).

One must conclude from this bidding history that Bragg had no true intention of purchasing the unrestricted E Block license for Cape Breton and only meant to increase TELUS' cost of obtaining the license. As we stated above, such behavior was made possible by the auction design. Bragg faced little to no risk in driving TELUS' cost up because due to the set-aside provision TELUS had no means to retaliate by bidding on licenses that Bragg was genuinely interested in purchasing. Further, if by chance, Bragg was not outbid by TELUS, Bragg could have withdrawn its bid. The net effect of this behavior was that it increased spectrum license prices well beyond expected levels, explaining at least partially the high prices observed in the Canadian AWS auction. Specifically, the E-Block sold at an estimated premium of 82 percent relative to the equivalent D-Block.

The same bidding behavior can be observed repeatedly. In Appendix D, we provide several more examples where entrants, particularly Globalive and Bragg, bid up the prices for unrestricted spectrum when they did not intend to purchase the license, but they simply wanted to increase the incumbents' licensing costs. As detailed, the bidding history examples contained in Appendix D include:

- Service Area 302. Prince Edward Island where Bragg drove up the price of the unrestricted 302e licenses even though it could have bid on the same license at one-tenth the price. Bragg ended up not purchasing any Tier 3 licenses in the service area.
- Service Area 314. Upper Outaouais where Globalive in the late rounds of the auction repeatedly bid on the unrestricted 314e license, increasing its price to CAD 640,000, even though the same license in the restricted block was available for CAD 512,000.
- Service area 317. Abitibi where Globalive in round 294 submitted a single bid of CAD
 1,190,000 for the unrestricted block despite the fact that the equivalent set-aside license was
 available for less than one-third the price. Globalive was outbid by TELUS and opted not
 to bid again.
- Service area 324. Huntsville where entrant SaskTel in round 158, after 94 rounds of
 inactivity for both the restricted and unrestricted licenses, started bidding up the price of the
 unrestricted license even though the equivalent restricted license was available for a discount of
 approximately 45 percent.

- Service area 327. Guelph/Kitchener where entrant Globalive was bidding CAD 4,820,000 for the unrestricted license even though the equivalent set-aside license was available for CAD 2,600,000—a 46 percent discount.
- Service area 329. Niagara—St. Catharines where SaskTel submitted a single bid of CAD 2,730,000 even though the equivalent set-aside license was available for CAD 1,380,000—a 50 percent discount.
- Service area 334. North Bay where in round 122 Globalive was outbid for the set-aside block at CAD 309,000, yet it did not bid any higher on the set-aside block. Instead, from round 101 through 178, it bid on the unrestricted block even though at the time the restricted block traded at a much lower value. After 112 rounds of inactivity for both blocks, Globalive submitted yet another bid on the unrestricted license, increasing its bid to CAD 649,000, even though the set-aside block was available at CAD 544,000—a discount of 16 percent.
- Service area 345. Medicine Hat/Brooks where in round 153 Globalive was outbid for the
 set-aside block at CAD 254,000. Globalive never bid on the set-aside again. Instead, it bid on
 the unrestricted license, bidding as much as CAD 832,000, even though the set-aside license
 stood at CAD 414,000—less than half of what Globalive bid on the unrestricted license.
 Globalive was outbid by Bell Mobility and ended up winning neither of the two licenses.
- Service area 346. Lethbridge where Globalive in rounds 44 through 176 bid up the value
 of the unrestricted block to CAD 835,000. Yet, Globalive never bid on the equivalent set-aside
 even though it was available at one-third of the price. In the end, Globalive was outbid by
 Bell Mobility.
- Service area 348. Red Deer where in rounds 44 through 165 Globalive bid up the price of the
 unrestricted block to CAD 866,000 even though the identical set-aside block was available at
 a lower price. In round 309, after 100 rounds of inactivity for both blocks, Globalive submitted
 another bid for the unrestricted block of CAD 956,000 even though the identical set-aside
 block was available for about a 30 percent discount.
- Service area 350. Kootenays where in round 257 Globalive was outbid for the set-aside block at CAD 262,000 and did not bid any higher for the set-aside block. However, between rounds 86 and 196, Globalive bid up to CAD 681,000 for the unrestricted block even though the identical set-aside block was available for less than half the price. In round 313, after 115 rounds of inactivity for the unrestricted block, Globalive bid CAD 752,000 for the unrestricted block even though the identical set-aside block was available for about one-third the price. In the end, Globalive did not win either block.
- Service area 353. Victoria where in round 39 Globalive was outbid for the set-aside block at CAD 1,420,000 and did not bid any higher for the set-aside block. However, between rounds 44 and 151, Globalive bid up to CAD 2,690,000 for the unrestricted block even though the identical set-aside block was available at CAD 1,750,000—a discount of 35 percent. In the end. Globalive did not win either block.
- Service area 356. Thompson/Cariboo where Globalive bid up to CAD 848,000 for the
 unrestricted block without ever bidding on the restricted one. In round 296, after 129 rounds
 of inactivity for the unrestricted block, Globalive bid CAD 935,000 for the unrestricted block
 even though the identical set-aside block was available for a discount of 37 percent. In the
 end, Globalive did not win either block.





Service area 357. Prince George where in rounds 113 to 307 Globalive bid the price of the
unrestricted block up to CAD 954,000 without ever bidding on the less expensive identical
set-aside block, which was available at about half the price. Similarly, Quebec Inc. submitted
a single bid on the unrestricted block in round 125, never bidding on the cheaper restricted
block. In the end, neither Globalive nor Quebec Inc. won a license in this area.

As explained above, one cannot be absolutely certain that each of these instances is an example of fake bidding because the possibility of alternative explanations does exist. What is clear, however, is that the specific auction design used by Industry Canada provided an opportunity for entrants to increase the prices of unrestricted licenses, while providing incumbents no opportunity to retaliate. Hence, one logical (and likely correct) answer to the auction behavior described above is that entrants took advantage of this opportunity.

There are three alternative explanations that we investigate further. First, one might argue that the entrants aimed at obtaining two contiguous licenses (i.e., blocks D and E). Because licenses in unrestricted block E were likely to sell at a higher price than the same licenses in restricted block D, the entrants might have decided to pursue a strategy where they aimed to secure a license in block E first and only bid on the equivalent license in block D afterwards. Based on a review of the auction data, it does not appear that this was their strategy. For instance, Bragg won 11 set-aside D-block licenses. Only once, in service area 349 (Grande Prairie), did it also win the accompanying identical E-block licenses. Analyzing the bidding behavior of this service area, however, seems to indicate that Bragg decided to bid on the two licenses simultaneously rather than separately.

Similarly, while entrant Globalive did not win a contiguous license, there are plenty of examples where the company bid as expected. For instance, in service area 343 (Saskatoon), Globalive rationally alternated its bids between the set-aside license and the unrestricted license. In the end, the company won the unrestricted license at a lower price than the set-aside. Thus, there seems to be no support for the theory that entrants were simply seeking contiguous licenses.

Second, one might argue that these examples are simply instance of entrants attempting to maintain their eligibility points—parking points. As we noted above, parking of points is not uncommon in auctions and is, by itself, not necessarily a reason for concern. However, parking of points can become a problem when combined with a set-aside provision, such as the one used in this auction. That is, the set-aside provision provides an incentive for entrants to park their points on the unrestricted spectrum rather than the restricted, even though there is no difference in terms of eligibility of where the points are parked. In an auction without set-asides, the effect of parking tends to be distributed equally among the bidders because each license bears the same probability of being used to park points. However, in the Canadian AWS auction design, incumbents did not have the opportunity to park points on the restricted licenses. This, coupled with the fact that the entrants had an incentive to park points on the unrestricted spectrum, resulted in unrestricted spectrum being disproportionably subject to the parking of points. Furthermore, based on the above review, it is doubtful that each of the above instances is simply entrants parking points. Rather, given that the entrants continuously bid up the prices of unrestricted licenses, even in the presence of much cheaper alternatives, seems to indicate that they engaged in a bidding game, whereby they sought to simply increase the prices paid by incumbent bidders.

Finally, one might argue that the entrants simply acted irrationally. Admittedly, there are a number of examples where both entrants *and* incumbents seemed to have acted irrationally by mistakenly bidding on a license when cheaper substitutes were available. However, when analyzing the overall bidding behavior of entrants and incumbents alike, it seems to indicate that such behavior appears to be isolated. For instance, as illustrated in Table 3, entrant Bragg seems to have been a sophisticated bidder as it *always* bought the cheaper of the two licenses in blocks D and E.

Table 6: Comparative Winning Bids for Blocks D and E Bragg

Market	10 MHz D-Block	10 MHz E-Block	% Discount
	Winning Bid	Winning Bid	Realized by Bragg
305	\$599	\$2,300	74.0
306	\$609	\$2,730	77.7
307	\$976	\$4,090	76.1
326	\$2,640	\$4,970	46.9
328	\$882	\$1,230	28.3
330	\$4,360	\$4,920	11.4
333	\$739	\$1,720	57.0
334	\$544	\$688	20.9
336	\$805	\$2,050	60.7
337	\$514	\$988	48.0
349	\$239	\$2,120	*

 $^{^{\}star}$ Bragg purchased both the D- and E-blocks in market 349 $\,$

Bold = Price paid by Bragg

Similarly and as shown in Table 4, with the exception of two licenses (341e and 342e), Globalive also purchased the cheaper of the licenses.





Table 7: Comparative Winning Bids for Blocks D and E Bragg

Market	10 MHz D-Block	10 MHz E-Block	% Discount Realized
	Winning Bid	Winning Bid	by Globalive
301	\$380	\$3,340	88.6
302	\$291	\$1,870	84.4
303	\$947	\$7,240	86.9
304	\$289	\$1,970	85.3
315	\$27,100	\$33,200	18.4
316	\$1,330	\$1,670	20.4
318	\$1,470	\$1,780	17.4
319	\$1,560	\$1,660	6.0
320	\$1,090	\$1,710	36.3
321	\$1,020	\$1,790	43.0
322	\$1,410	\$1,500	6.0
323	\$905	\$1,120	19.2
339	\$13,500	\$15,100	10.6
340	\$773	\$1,600	51.7
359	\$101	\$291	65.3
341	\$4,970	\$5,760	-15.9
342	\$2,430	\$2,690	-10.7
343	\$12,700	\$12,000	5.5

Bold = Price paid by Globalive

Therefore, it appears that entrants Bragg and Globalive pursued economically rational strategies and (almost) always purchased the cheaper of the equivalent D- and E-block licenses. This, however, raises the question of why these same companies drove up the final price of unrestricted licenses when the equivalent restricted licenses sold at a significant discount. Again, other than increasing the prices of unrestricted licenses or possibly to park points, there seems to be no plausible explanation. In either case, it resulted in unrestricted licenses selling at a significant premium over comparable spectrum prices in the U.S.

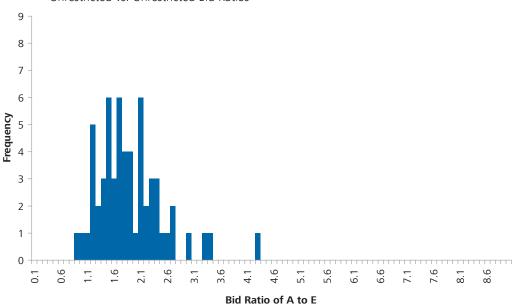
Bidding ratio distributions of final license prices confirm this conclusion. As expected, the distribution of the bid ratio between the unrestricted blocks A and E is similar to the distribution of the bid ratio between the unrestricted blocks F and E. Similarly, the distribution of the bid ratio between unrestricted block A and restricted block D seems to mirror the distribution of the bid ratio between unrestricted block F and restricted block D. Bidding ratio distributions between A and E to A and D, however, are significantly different. The same is true for all other comparisons (i.e., A to E and F to D; F to E and F to D; F to E and A to D). Specifically, the mean of the distribution for the bid ratio of A to E is 1.8. That is, on average, the 20 MHz A-block license sold for less than double the 10 MHz E-block license. Ninety percent of the ratios lie between 1.11 and 2.97. The distribution of the bid ratio of F to E has a mean of 1.99, with 90 percent of the ratios between 1.15 and 3.16. In stark contrast to this, the distribution of the bid ratio of A to D has a mean of 4.12 with 90 percent of the ratios between 1.21 and 14.03.

Similarly, the bid ratio of F to D has a mean of 4.48 and 90 percent of its ratios between 1.29 and 14.07. These data indicate that the set-aside provision significantly increased not only the mean bid ratio, but also caused very large price differences between the unrestricted and the restricted licenses, which is consistent with the fake bidding behavior discussed above. Figure 6 graphically illustrates this point.

Figure 6: Winning Bid Ratio Distributions

Unrestricted vs. Unrestricted Bid Ratios





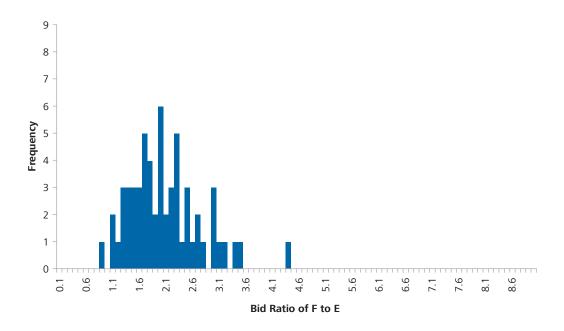
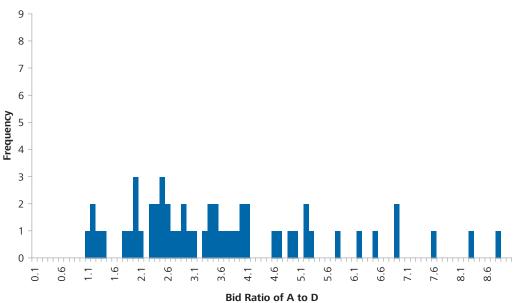
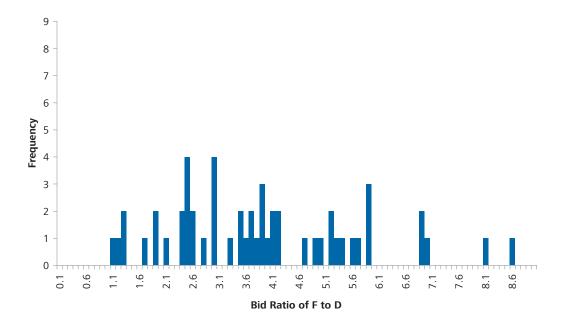


Figure 6: Winning Bid Ratio Distributions



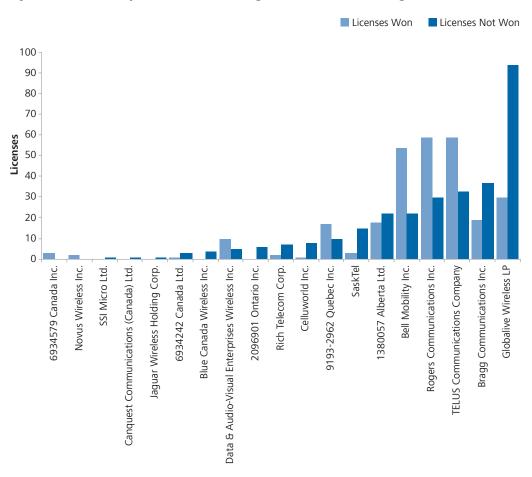




While Figure 6 provides detailed micro-level analyses of the auction behavior, it is also useful in illustrating the magnitude of the problems caused by the set-aside provision on a macro level. In Figure 6, we plotted, by bidder, the number of licenses that were won in the "end game" against the number of licenses that were lost in the "end game." That is, we analyzed how many times a bidder won and lost when it was the highest or second highest bidder for a particular license (i.e., the end game). As can be seen in Figure 7, Bragg and Globalive had the highest number of losses—they lost most often in the end game. In contrast, incumbents TELUS, Rogers, and Bell Mobility had the highest number of end game wins.

Figure 7: Outcomes by Bidder When Among the First- or Second-Highest Bidders

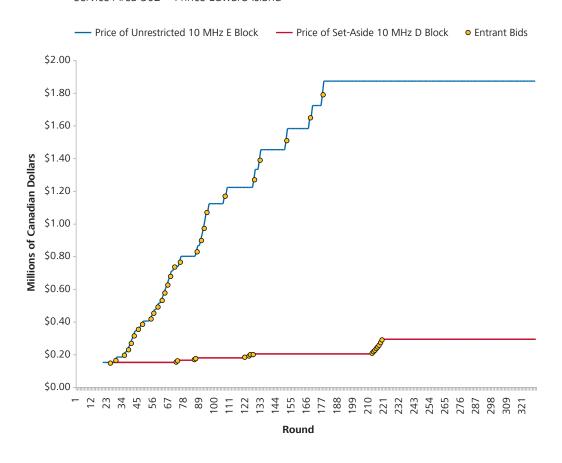




Again, there is more than one possible explanation for this finding. First, it might indicate that Globalive and Bragg engaged more frequently in fake bidding than anyone else, forcing the incumbents (who were limited to bidding on the unrestricted spectrum) to outbid them in the end game. Alternatively, one might read this finding as proof that entrants were more frequently the losing party, outbid by financially stronger incumbents that had an incentive to prevent competitive entry into their territory.

However, looking at the previous analyses and examples of fake bidding, the second explanation does not seem consistent with the actual bidding behavior. Furthermore, given that Globalive enjoyed strong financial backing, it is unclear why it lost the end game more frequently than financially weaker bidders, such as Quebec Inc., Data & Audio-Visual. If one were to believe that Globalive was simply outbid by the incumbents, one would have to conclude that it must not be satisfied with the license portfolio it obtained at the end of the auction, but this does not seem to be the case. Globalive's CEO characterizes the company's AWS license portfolio as setting the stage for Globalive "to become a major presence in the Canadian telecom market." Mr. Lacavera goes on to describe the spectrum won by Globalive as "an historic event for wireless users across the country," as it "marks a new era of choice in Canada's wireless world." Therefore, the first explanation of Figure 7 seems much more likely. That is, the high win/loss ratio observed by Globalive and Bragg is a direct consequence of the fake bidding observed and discussed above. This conclusion is further supported by the examples shown in Figures 8 and 9, which show that entrants consistently bid up the value of the unrestricted spectrum without apparent intent to purchase it, as identical spectrum was available at a fraction of the price.

Figure 8: **Entrants Bidding Values by Round Identical D and E Blocks**Service Area 302 – Prince Edward Island



^{71.} Globalive.com, "Globalive Ready To Usher In A New Era," July 21, 2008, http://www.globalive.com/?p=51.

^{72.} Ibid

Figure 9: **Entrants Bidding Values by Round Identical D and E Blocks** Service Area 317 – Abitibi





As noted above, there are many more instances of bidding out of value, or fake bidding. The above instances are meant for illustrative purposes only and do not represent an exhaustive list of each instance of fake bidding. An exhaustive list would require examining the bidding behavior for each license and each round. The purpose of this report, however, is not to quantify each such instance. Rather, it is to explain and illustrate the incentives created by this particular auction design and to provide guidance as to how future auctions can be improved.

Set-Asides Provided Entrants with a Strategic Advantage

The set-aside provision also provided entrants with a strategic advantage because it allowed them to bid on unrestricted spectrum to maintain eligibility, while waiting for competitive entrants to drop out of the bidding. The consequences of this strategy are at least threefold. First, as we discussed above, the parking of points coupled with the incumbents' inability to retaliate results in an increase in the incumbents' license prices. Second, this wait-and-see strategy jeopardizes one of the most fundamental auction design features, the eligibility rule. That is, entrants can maintain eligibility by bidding on the unrestricted spectrum with no intention of buying it, while waiting to bid on the restricted spectrum. Third, it likely explains the record number of rounds it took to complete this auction as at least some entrants waited to bid on the restricted spectrum until other entrants' eligibility points were reduced.

Downsides of Set-Asides Were Intensified by Flawed Definition of Entrants

Industry Canada defined an entrant as "[a]n entity, including affiliates and associated entities, which holds less than 10 percent of the national wireless market based on revenue."⁷³ Practically, this meant that everyone, except the three incumbent carriers—Rogers, TELUS, and Bell Mobility—received the preferential treatment described above. This designation conferred a significant advantage upon entities that qualified as entrants including:

- Being allowed to bid on both set-aside and unrestricted spectrum.
- Entrant designation remains valid throughout the term of the license even if the licensee gains more than 10 percent of the national market share, based on revenue.
- Favorable in-territory roaming conditions, as outlined in the Policy Framework.

Importantly, as a result of being allowed to bid on both set-aside and unrestricted spectrum, entrants were shielded from fake bidding by incumbents. Conversely, only Rogers, TELUS, and Bell Mobility were subject to inflated spectrum prices due to fake bidding. With this definition of entrant, Industry Canada attempted to alleviate its assumption that "incumbents have an incentive to pay a premium for spectrum to prevent market entry." Industry Canada stated:

The measures being taken are intended to ensure an opportunity for entry by addressing the potential to exploit spectrum as an entry barrier.⁷⁵

^{73.} 2GHz Auction Framework, 5.

^{74.} Ibid., 3.

^{75.} Ibid., 4.

This definition has several shortcomings. First, while aimed at preventing *nationwide* incumbents from using spectrum as an entry barrier, it failed to consider the incentives that *regional* incumbents have to use spectrum as an entry barrier. As shown in Table 5, regional players also can have a strong incentive to guard their market positions. For instance, when considered on a provincial basis, Bell Mobility has no revenue market shares in Saskatchewan and Manitoba. Thus, it would qualify as an entrant in those provinces. Similarly, TELUS would be considered an entrant in Saskatchewan, New Brunswick, and possibly other provinces, and Rogers would be an entrant in Newfoundland and Labrador. Conversely, with a market share of well above 10 percent, SaskTel would clearly qualify as an incumbent in Saskatchewan, and Manitoba Telecom Services (MTS Allstream) would be considered an incumbent in Manitoba.







Table 8: Wireless Subscriber Percent Market Share by Province 2006

Province	Bell Group	TCC	Rogers	Others
British Columbia	11	45	42	2
Alberta	15	58	25	1
Saskatchewan	0	3	16	81
Manitoba	0	12	27	61
Ontario	35	18	44	3
Quebec	44	21	33	2
New Brunswick	72	6	20	1
Prince Edward Island	75	11	13	2
Nova Scotia	62	12	25	1
Newfoundland and Labrador	85	11	3	1
The North	100	0	0	0

As confirmed by MTS in its recent earnings release, carriers not only compete on a nationwide basis, but also on a provincial basis. Specifically:

As a result of the AWS spectrum auction, two new entrants became the provisional licensees for sufficient spectrum in Manitoba to enable them to offer wireless services in competition with us. These new entrants have indicated publicly that they will initially focus their efforts on more densely populated areas of Canada where they also acquired spectrum, and one announced that it will delay entry into our market in Manitoba. We are well-positioned to face these new competitors, and there is no certainty that these new entrants will create a more competitive environment in Manitoba at some point in the future.⁷⁶

^{76.} TMCnet.com, "Manitoba Telecom Services Inc. Reports Solid 2008 Results; Achieves Annual Guidance," February 5, 2009, http://www.tmcnet.com/usubmit/2009/02/05/3967482.htm.

Ironically, although at the receiving end of the preferential treatment program, MTS does question whether entry in Manitoba ("our market") will create more competition.⁷⁷

Second, by restricting the product dimension of the market to wireless only, the definition of entrant fails to consider the converging nature of the telecommunications industry. Traditionally, the supply of communications services was clearly separated. Wireline providers offered wireline services, wireless providers offered wireless services, and cable providers offered TV programming. For the consumer, this meant separate purchasing decisions for wireline, wireless, and video services. However, wireline, wireless, cable, and other telecommunications providers have become blurred entities that offer all types of services. As markets and technologies converge, distinct markets are disappearing (e.g., standalone long distance) and others are taking their place, for example, competition is increasing for bundles of services, such as voice, high-speed data, and video—the "triple play"—and when you include wireless—the "quadruple play."

By limiting the product dimension of the definition of entrant to wireless only, Industry Canada failed to consider this strong and increasing trend. Consequently, cable providers, such as Bragg, Shaw Communications, and Videotron, were considered entrants even though they compete directly with the incumbents. For instance, Videotron markets several bundles—duophone (cable telephony and wireless), triple play packages (illicio digital TV, cable telephony, and cable internet), and a "Quattro Package" (illicio digital TV, cable telephony, cable Internet, and wireless). Similarly, Bell Mobility offers bundles consisting of wireless, data (Internet), video (TV), and wireline services. Moreover, these false entrants are often large, well-capitalized firms with strong customer relationships.

Third, the geographic dimension used by Industry Canada seems to be inconsistent with the geographic dimension used by the Canadian Competition Bureau, which uses a provincial, instead of a national dimension. Specifically, the Competition Bureau finds:

Prior analysis of the cellular industry in both Canada and the United States found the geographic market to be something less than national in scope and the Bureau's analysis in the current merger led to a similar conclusion ... Therefore, for the purpose of this assessment, it was determined that defining geographic markets around provincial boundaries was appropriate.⁷⁸

Thus, Industry Canada's definition of an entrant is problematic in both its geographic and product market dimensions, and, while the regulator attempted to prevent the three nationwide incumbents from raising the entrants' costs, it failed to consider the other side of this argument. That is, Industry Canada did not assess the incentives of so-called entrants to raise the incumbents' costs, something that they clearly did. Consequently, it failed to classify at least some of the entrants as incumbents. Thus, rather than preventing these operators from exploiting spectrum as an entry barrier, Industry Canada made it *easier* for them to enhance their current market position

^{77.} Ibid.

^{78.} Competition Bureau Canada, "Acquisition of Microcell Telecommunications Inc. by Rogers Wireless Communications Inc.," http://www.competitionbureau.gc.ca/eic/site/cb-bc.nsf/eng/00257.html.

Conclusion and Recommendations

When designing the 2008 AWS auction, Industry Canada's objective was to promote market entry, which was supposed to result in increased competition. This, in turn, should generate more services at lower prices and encourage operators to introduce innovative communications solutions. In order to achieve this goal, Industry Canada decided to classify a subset of bidders as entrants. These entrants were to receive preferential treatment in the auction. Most notably, 40 MHz of AWS spectrum was set aside exclusively for entrants. Furthermore, the entrants were the beneficiaries of mandated roaming and mandated tower sharing requirements placed on the incumbents. While Industry Canada's objective to maximize social welfare was well intentioned, it failed to consider the side effects of its preferential treatment. Most significantly, the set-aside provision allowed entrants to bid on unrestricted spectrum with no intention of purchasing it, but with an objective of increasing the incumbent bidders' spectrum prices. This and other auction design flaws contributed heavily to the record high prices paid for the unrestricted spectrum licenses. Although the set-aside spectrum also sold at a premium, the premium was significantly lower than the one paid for unrestricted spectrum. Furthermore, given the attractive roaming and tower sharing provisions granted to the winners of the set-aside spectrum licenses, at least part of this overpayment can be attributed to the fact that it was worth more to entrants. The repercussions of this overpayment should not be ignored because it could have a negative impact on the rollout of AWS services in Canada.

The side effects of Industry Canada's set-aside provision were intensified by the flawed definition of the parties eligible for preferential treatment. While the regulator intended to prevent the incumbents from using spectrum as an entry barrier, its definition of an entrant failed to exclude all parties that would have such an incentive. That is, it excluded the three large national wireless carriers, but failed to exclude strong regional players, such as SaskTel and MTS, that dominate their regional markets for wireless services. The definition also failed to exclude cable operators, such as Bragg, Shaw, and Videotron, that offer converged services packages (i.e., triple, and quadruple play bundles) including in most cases wireless services. These entrants are often large, well-capitalized firms with strong customer relationships that compete directly with the three nationwide operators. Hence, the preferential treatment provision contained in the Canadian AWS spectrum auction effectively favored regional and converged competitors over the nationwide incumbents, mostly at the expense of the incumbents. Thus, Industry Canada's effort to encourage entry with the hope of creating more competition came with a significant price tag—a price tag that we estimate will outweigh the potential benefits.







Based on these findings, we recommend that the design used for the Canadian AWS auction be modified for future auctions. In particular, we recommend the following modifications:

- 1. Carefully balance the costs and benefits of regulatory intervention, whatever type it may be. The Canadian wireless sector has strong signs of competition. By intervening unnecessarily in this sector, Industry Canada runs the risk of damaging competition. In fact, our analysis indicates that the design of the Canadian AWS auction resulted in an overpayment of approximately CAN 2.4 billion by the auction participants, the incumbent wireless providers in particular. Moreover, encouraging entry will not automatically lead to more competition in the Canadian wireless market as the market might have reached a natural equilibrium.
- 2. If Industry Canada finds that regulatory intervention through preferential treatment is necessary (i.e., market forces are not working properly):
 - a. It must ensure that the benefits of any such measures are limited to actual entrants—not regional or converged competitors. Rather than defining entrants based on market shares in a narrowly defined market, it might be more appropriate to define entrants based on their purchasing power, that is, average annual gross revenues.
 - b. It should focus on ex-post benefits, such as tax incentives, rather than ex-ante benefits, such as spectrum caps and the set-aside provision used in the Canadian AWS auction. Ex-post benefits are awarded only to successful bidders (i.e., actual entrants), while ex-ante benefits award all auction participants that qualify for the preferential treatment. Focusing on ex-post benefits will minimize the negative side effects of preferential treatment as it removes arbitrage opportunities for parties that do not seek to establish themselves in the market over the long run. Moreover, it will likely result in fewer auction rounds because the benefits are only awarded to new entrants.
- 3. Any benefits awarded to entrants should not come at the expense of the incumbents— which was the case in the Canadian AWS auction. That is, instead of forcing incumbents to subsidize entrants (by restricting them from bidding on set-aside spectrum) and subjecting them to extensive gaming, which further raises their costs, Industry Canada should directly subsidize entrants if, and only if, such a subsidy is economically justified (i.e., there is a risk of market failure).
- 4. Industry Canada must strive to minimize the side effects of any regulatory intervention. As evidenced in the economic literature, international best practices, and from actual auction experiences, including Canada's, set-aside provisions are inefficient and can harm competition. Therefore, we recommend that Industry Canada refrain from using set-aside provisions in future auctions. Instead, where justified by market circumstances, alternative measures should be considered, such as bidder credits like those used by the FCC in its recent spectrum auctions.

About the Author

Mr. Dippon is a Vice President in NERA's Communications and Intellectual Property Practices. He specializes in the economics, business, and regulation of the communications and high-tech industries, and the evaluation of economic damages in intellectual property and commercial litigation disputes. He advises his clients in complex communications litigation and policy matters and provides strategic advice to cope with changes in competition, regulation, and technology. Mr. Dippon serves on the Board of Directors of the International Telecommunications Society (ITS) and the International Intellectual Property Institute (IIPI) and is a member of the American Economic Association, and the Federal Communications Bar Association.



With over 12 years of experience, Mr. Dippon is an expert in telecommunications specializing in wireline, wireless, cable, and emerging technologies. His clients call on Mr. Dippon for his expertise with local exchange carriers, wireless operators, long distance carriers, Internet service providers (ISPs), cable operators, mobile network operators (MNOs), virtual mobile network operators (MVNOs), VoIP providers, and emerging players of Wi-Fi, WiMAX, video broadcasting. He has worked on a wide range of issues in the communications sector, including mergers and acquisitions, spectrum auctions, the evaluation of IP damages, allegations of antitrust violations, regulatory matters, assessment of competitive market conditions, consumer class action lawsuits, breach of contract disputes, convergence and business strategies, demand forecasting, pricing, and other complex commercial disputes.

Mr. Dippon has authored a book on mobile virtual network operators (MVNOs) and numerous articles on wireless and wireline competition and strategies and frequently lectures in these areas at industry conferences, continuing education programs for lawyers, and at universities. Most recently, he was the co-editor of *The K&L Gates-NERA Global Telecom Review*, a book by NERA and law firm K&L Gates that presents insights from a diverse range of legal, economic, and industry professionals from markets around the globe, highlighting some key aspects and debates that shape the ever-evolving telecommunications industry. Mr. Dippon's works have been cited by national and international newspapers and magazines, including the *Financial Times, Business Week, Forbes*, the *Chicago Tribune, Competition Law 360*, and the *Sydney Morning Herald*.

Mr. Dippon has completed substantial PhD coursework in economics and received an MA in economics, with a concentration in microeconomics and econometrics, from the University of California. Prior to joining NERA, Mr. Dippon was an analyst at BMW in Bangkok, Thailand.







About NERA

Consulting (www.nera.com) is a global firm of experts dedicated to applying economic, finance, and quantitative principles to complex business and legal challenges. For nearly half a century, NERA's economists have been creating strategies, studies, reports, expert testimony, and policy recommendations for government authorities and the world's leading law firms and corporations. We bring academic rigor, objectivity, and real world industry experience to bear on issues arising from competition, regulation, public policy, strategy, finance, and litigation.

NERA's clients value our ability to apply and communicate state-of-the-art approaches clearly and convincingly, our commitment to deliver unbiased findings, and our reputation for quality and independence. Our clients rely on the integrity and skills of our unparalleled team of economists and other experts backed by the resources and reliability of one of the world's largest economic consultancies. With its main office in New York City, NERA serves clients from over 20 offices across North America, Europe, and Asia Pacific.

Contact

For further information and questions, please contact:

Christian Dippon

Vice President +1 415 291 1044 christian.dippon@nera.com



			License				**** * D. I	**** * D*1
Ml4	D11-	G-4 A-43-	Bandwidth	Dl-4:	MII- * D	W/ D: 11	Winning Bid	Winning Bid
Market 201	Block	Set-Aside Set-Aside	(MHz)	Population	MHz * Pop	Winning Bidder	(2008 USD) \$750,988	(2008 CAD) \$760,000
201	B C	Set-Aside Set-Aside	10	513,282 513,282		Bragg Communications Inc. Bragg Communications Inc.	\$730,988 \$434,783	\$440,000
201	G	Unrestricted	10	513,282		Globalive Wireless LP	\$556,324	\$563,000
202	В	Set-Aside	20	1,043,232		Bragg Communications Inc.	\$3,003,953	\$3,040,000
202	C	Set-Aside	10	1,043,232		Bragg Communications Inc.	\$1,650,198	\$1,670,000
202	G	Unrestricted	10	1,043,232		Blue Canada Wireless Inc.	\$1,138,834	\$1,152,500
203	В	Set-Aside	20	728,997		Bragg Communications Inc.	\$1,462,451	\$1,480,000
203	C	Set-Aside	10	728,997		Globalive Wireless LP	\$1,699,605	\$1,720,000
203	I	Unrestricted	5	728,997	3,644,985	Bragg Communications Inc.	\$475,296	\$481,000
204	В	Set-Aside	20	1,590,736	31,814,720	9193-2962 Québec Inc.	\$7,015,810	\$7,100,000
204	C	Set-Aside	10	1,590,736	15,907,360	9193-2962 Québec Inc.	\$3,063,241	\$3,100,000
204	G	Unrestricted	10	1,590,736	15,907,360	6934579 Canada Inc.	\$2,588,933	\$2,620,000
204	I	Unrestricted	5	1,590,736		Bell Mobility Inc.	\$802,372	\$812,000
205	В	Set-Aside	20	5,151,224		9193-2962 Québec Inc.	\$166,000,000	\$168,000,000
205	C	Set-Aside	10	5,151,224		9193-2962 Québec Inc.	\$110,700,000	\$112,000,000
205	G	Unrestricted	10	5,151,224		6934579 Canada Inc.	\$16,007,905	\$16,200,000
206	В	Set-Aside	20	2,122,177		9193-2962 Québec Inc.	\$51,284,585	\$51,900,000
206	C	Set-Aside	10	2,122,177		Data & Audio-Visual Enterprises Wireless Inc.	\$30,039,526	\$30,400,000
206 207	G B	Unrestricted Set-Aside	10 20	2,122,177 187,081		6934579 Canada Inc. 9193-2962 Québec Inc.	\$8,389,328 \$173,913	\$8,490,000 \$176,000
207	C	Set-Aside Set-Aside	10	187,081		9193-2962 Québec Inc.	\$351,779	\$356,000
207	G	Unrestricted	10	187,081		Globalive Wireless LP	\$257,905	\$261,000
207	I	Unrestricted	5	187,081		Globalive Wireless LP	\$121,542	\$123,000
208	В	Set-Aside	20	8,811,117		Globalive Wireless LP	\$275,700,000	\$279,000,000
208	C	Set-Aside	10	8,811,117		Data & Audio-Visual Enterprises Wireless Inc.	\$129,400,000	\$131,000,000
208	G	Unrestricted	10	8,811,117		6934579 Canada Inc.	\$24,777,744	\$25,075,077
209	В	Set-Aside	20	785,481		Bragg Communications Inc.	\$2,697,629	\$2,730,000
209	C	Set-Aside	10	785,481	7,854,810	Globalive Wireless LP	\$1,482,213	\$1,500,000
209	I	Unrestricted	5	785,481	3,927,405	Globalive Wireless LP	\$376,482	\$381,000
210	В	Set-Aside	20	1,118,283	22,365,660	6934242 Canada Ltd.	\$38,537,549	\$39,000,000
210	C	Set-Aside	10	1,118,283	11,182,830	1380057 Alberta Ltd.	\$13,636,364	\$13,800,000
210	G	Unrestricted	10	1,118,283	11,182,830	6934242 Canada Ltd.	\$1,168,478	\$1,182,500
210	I	Unrestricted	5	1,118,283		6934242 Canada Ltd.	\$584,239	\$591,250
211	В	Set-Aside	20	975,717	19,514,340		\$39,920,949	\$40,400,000
211	C	Set-Aside	10	975,717	9,757,170		\$23,913,043	\$24,200,000
211	G	Unrestricted	10	975,717	9,757,170		\$1,077,075	\$1,090,000
212	В	Set-Aside	20	2,979,436		1380057 Alberta Ltd.	\$32,312,253	\$32,700,000
212	C	Set-Aside	10	2,979,436		Globalive Wireless LP	\$17,885,375	\$18,100,000
212 213	G B	Unrestricted	10 20	2,979,436		Novus Wireless Inc.	\$8,063,241	\$8,160,000
213	C C	Set-Aside Set-Aside	10	3,907,624 3,907,624		1380057 Alberta Ltd. Globalive Wireless LP	\$99,802,372 \$66,600,791	\$101,000,000 \$67,400,000
213	G	Unrestricted	10	3,907,624		Novus Wireless Inc.	\$9,624,506	\$9,740,000
214	В	Set-Aside	20	92,707		Globalive Wireless LP	\$181,818	\$184,000
214	C	Set-Aside	10	92,707		Globalive Wireless LP	\$102,767	\$104,000
214	Ğ	Unrestricted	10	92,707		Globalive Wireless LP	\$145,257	\$147,000
214	I	Unrestricted	5	92,707		Bell Mobility Inc.	\$136,364	\$138,000
301	A	Unrestricted	20	513,282		Rogers Communications Inc.	\$6,304,348	\$6,380,000
301	D	Set-Aside	10	513,282		Globalive Wireless LP	\$375,494	\$380,000
301	E	Unrestricted	10	513,282		TELUS Communications Company	\$3,300,395	\$3,340,000
301	F	Unrestricted	20	513,282	10,265,640	Bell Mobility Inc.	\$6,304,348	\$6,380,000
302	A	Unrestricted	20	135,294	2,705,880	Rogers Communications Inc.	\$2,519,763	\$2,550,000
302	D	Set-Aside	10	135,294		Globalive Wireless LP	\$287,549	\$291,000
302	E	Unrestricted	10	135,294		TELUS Communications Company	\$1,847,826	\$1,870,000
302	F	Unrestricted	20	135,294		Bell Mobility Inc.	\$2,598,814	\$2,630,000
303	A	Unrestricted	20	760,894		Bell Mobility Inc.	\$15,019,763	\$15,200,000
303	D	Set-Aside	10	760,894		Globalive Wireless LP	\$935,771	\$947,000
303	Е	Unrestricted	10	760,894		TELUS Communications Company	\$7,154,150	\$7,240,000
303	F	Unrestricted	20	760,894		Rogers Communications Inc.	\$15,118,577	\$15,300,000
304	A	Unrestricted	20	147,044		Rogers Communications Inc.	\$3,577,075	\$3,620,000
304 304	D	Set-Aside	10	147,044		Globalive Wireless LP TELUS Communications Company	\$285,573 \$1,946,640	\$289,000
304 304	E F	Unrestricted	10	147,044		TELUS Communications Company Rell Mobility Inc.	\$1,946,640	\$1,970,000
304 305	F A	Unrestricted Unrestricted	20 20	147,044 167,343		Bell Mobility Inc. Rogers Communications Inc.	\$3,833,992 \$2,677,866	\$3,880,000 \$2,710,000
305 305	A D	Set-Aside	10	167,343		Bragg Communications Inc.	\$2,677,866 \$591,897	\$599,000
305	E E	Unrestricted	10	167,343		TELUS Communications Company	\$2,272,727	\$2,300,000
305	F	Unrestricted	20	167,343		Bell Mobility Inc.	\$3,023,715	\$3,060,000
306	A	Unrestricted	20	209,227		Rogers Communications Inc.	\$3,171,937	\$3,210,000
306	D	Set-Aside	10	209,227		Bragg Communications Inc.	\$601,779	\$609,000
	_			, -	_,~, ~, _,~		4002,.79	2007,000

License
Randwidth

			License					
			Bandwidth				Winning Bid	Winning Bid
Market	Block	Set-Aside	(MHz)	Population	MHz * Pop	Winning Bidder	(2008 USD)	(2008 CAD)
306	E	Unrestricted	10	209,227		TELUS Communications Company	\$2,697,629	\$2,730,000
306	F	Unrestricted	20	209,227		Bell Mobility Inc.	\$3,537,549	\$3,580,000
307	A	Unrestricted	20	352,427		Rogers Communications Inc.	\$4,752,964	\$4,810,000
307	D	Set-Aside	10	352,427		Bragg Communications Inc.	\$964,427	\$976,000
307	E	Unrestricted	10	352,427		TELUS Communications Company	\$4,041,502	\$4,090,000
307	F	Unrestricted	20	352,427		Bell Mobility Inc.	\$5,059,289	\$5,120,000
308	A	Unrestricted	20	298,273		Rogers Communications Inc.	\$2,252,964	\$2,280,000
308 308	D E	Set-Aside Unrestricted	10 10	298,273 298,273		9193-2962 Québec Inc. Bell Mobility Inc.	\$975,296 \$1,541,502	\$987,000 \$1,560,000
308	F	Unrestricted	20	298,273		TELUS Communications Company	\$2,450,593	\$2,480,000
309	A	Unrestricted	20	917,873		Rogers Communications Inc.	\$34,387,352	\$34,800,000
309	D	Set-Aside	10	917,873		9193-2962 Québec Inc.	\$2,450,593	\$2,480,000
309	E	Unrestricted	10	917,873		Bell Mobility Inc.	\$14,328,063	\$14,500,000
309	F	Unrestricted	20	917,873		TELUS Communications Company	\$34,486,166	\$34,900,000
310	Α	Unrestricted	20	374,590		Rogers Communications Inc.	\$4,525,692	\$4,580,000
310	D	Set-Aside	10	374,590		9193-2962 Québec Inc.	\$545,455	\$552,000
310	E	Unrestricted	10	374,590		Bell Mobility Inc.	\$1,936,759	\$1,960,000
310	F	Unrestricted	20	374,590	7,491,800	TELUS Communications Company	\$4,397,233	\$4,450,000
311	A	Unrestricted	20	509,717		Rogers Communications Inc.	\$9,288,538	\$9,400,000
311	D	Set-Aside	10	509,717	5,097,170	9193-2962 Québec Inc.	\$3,547,431	\$3,590,000
311	E	Unrestricted	10	509,717	5,097,170	9193-2962 Québec Inc.	\$5,128,459	\$5,190,000
311	F	Unrestricted	20	509,717		TELUS Communications Company	\$10,375,494	\$10,500,000
312	Α	Unrestricted	20	749,812		Rogers Communications Inc.	\$21,047,431	\$21,300,000
312	D	Set-Aside	10	749,812		9193-2962 Québec Inc.	\$5,187,747	\$5,250,000
312	E	Unrestricted	10	749,812		Bell Mobility Inc.	\$9,456,522	\$9,570,000
312	F	Unrestricted	20	749,812		TELUS Communications Company	\$21,640,316	\$21,900,000
313	A	Unrestricted	20	3,784,570		Rogers Communications Inc.	\$189,700,000	\$192,000,000
313	D	Set-Aside	10	3,784,570		9193-2962 Québec Inc.	\$95,454,545	\$96,600,000
313 313	E F	Unrestricted	10 20	3,784,570		Bell Mobility Inc.	\$126,500,000	\$128,000,000
313	г А	Unrestricted Unrestricted	20	3,784,570 107,125		TELUS Communications Company Rogers Communications Inc.	\$231,200,000	\$234,000,000 \$1,170,000
314	D D	Set-Aside	10	107,125		9193-2962 Québec Inc.	\$1,156,127 \$505,929	\$512,000
314	E	Unrestricted	10	107,125		Bell Mobility Inc.	\$670,949	\$679,000
314	F	Unrestricted	20	107,125		TELUS Communications Company	\$1,185,771	\$1,200,000
315	A	Unrestricted	20	1,265,237		Rogers Communications Inc.	\$45,948,617	\$46,500,000
315	D	Set-Aside	10	1,265,237		Globalive Wireless LP	\$26,778,656	\$27,100,000
315	E	Unrestricted	10	1,265,237		Bell Mobility Inc.	\$32,806,324	\$33,200,000
315	F	Unrestricted	20	1,265,237		TELUS Communications Company	\$44,071,146	\$44,600,000
316	Α	Unrestricted	20	108,154		Rogers Communications Inc.	\$1,571,146	\$1,590,000
316	D	Set-Aside	10	108,154		Globalive Wireless LP	\$1,314,229	\$1,330,000
316	E	Unrestricted	10	108,154	1,081,540	Bell Mobility Inc.	\$1,650,198	\$1,670,000
316	F	Unrestricted	20	108,154	2,163,080	TELUS Communications Company	\$1,699,605	\$1,720,000
317	A	Unrestricted	20	187,081	3,741,620	Rogers Communications Inc.	\$2,164,032	\$2,190,000
317	D	Set-Aside	10	187,081		9193-2962 Québec Inc.	\$351,779	\$356,000
317	E	Unrestricted	10	187,081	, ,	TELUS Communications Company	\$1,254,941	\$1,270,000
317	F	Unrestricted	20	187,081		Bell Mobility Inc.	\$2,075,099	\$2,100,000
318	A	Unrestricted	20	65,921		Rogers Communications Inc.	\$1,551,383	\$1,570,000
318	D	Set-Aside	10	65,921		Globalive Wireless LP	\$1,452,569	\$1,470,000
318	E	Unrestricted	10	65,921		TELUS Communications Company	\$1,758,893	\$1,780,000
318 319	F	Unrestricted Unrestricted	20 20	65,921 82,869		Bell Mobility Inc. Rogers Communications Inc.	\$1,511,858 \$1,700,486	\$1,530,000 \$1,730,000
319	A D	Set-Aside	10	82,869		Globalive Wireless LP	\$1,709,486 \$1,541,502	\$1,750,000
319	E	Unrestricted	10	82,869		TELUS Communications Company	\$1,640,316	\$1,660,000
319	F	Unrestricted	20	82,869		Bell Mobility Inc.	\$1,739,130	\$1,760,000
320	A	Unrestricted	20	162,711		Rogers Communications Inc.	\$2,618,577	\$2,650,000
320	D	Set-Aside	10	162,711		Globalive Wireless LP	\$1,077,075	\$1,090,000
320	E	Unrestricted	10	162,711		TELUS Communications Company	\$1,689,723	\$1,710,000
320	F	Unrestricted	20	162,711		Bell Mobility Inc.	\$2,500,000	\$2,530,000
321	A	Unrestricted	20	184,594		Rogers Communications Inc.	\$2,954,546	\$2,990,000
321	D	Set-Aside	10	184,594		Globalive Wireless LP	\$1,007,905	\$1,020,000
321	E	Unrestricted	10	184,594		TELUS Communications Company	\$1,768,775	\$1,790,000
321	F	Unrestricted	20	184,594	3,691,880	Bell Mobility Inc.	\$2,806,324	\$2,840,000
322	A	Unrestricted	20	59,699		Rogers Communications Inc.	\$1,818,182	\$1,840,000
322	D	Set-Aside	10	59,699		Globalive Wireless LP	\$1,393,281	\$1,410,000
322	E	Unrestricted	10	59,699		TELUS Communications Company	\$1,482,213	\$1,500,000
322	F	Unrestricted	20	59,699		Bell Mobility Inc.	\$1,699,605	\$1,720,000
323	A	Unrestricted	20	192,992		Rogers Communications Inc.	\$2,727,273	\$2,760,000
323	D	Set-Aside	10	192,992		Globalive Wireless LP	\$894,269	\$905,000
323	Е	Unrestricted	10	192,992	1,929,920	TELUS Communications Company	\$1,106,719	\$1,120,000

License

			Bandwidth				Winning Bid	Winning Bid
Market	Block	Set-Aside	(MHz)	Population	MHz * Pop	Winning Bidder	(2008 USD)	(2008 CAD)
323	F	Unrestricted	20	192,992	3,859,840	Bell Mobility Inc.	\$2,658,103	\$2,690,000
324	A	Unrestricted	20	72,322	1,446,440	Rogers Communications Inc.	\$1,136,364	\$1,150,000
324	D	Set-Aside	10	72,322	723,220	Rich Telecom Corp.	\$497,036	\$503,000
324	E	Unrestricted	10	72,322		TELUS Communications Company	\$683,794	\$692,000
324	F	Unrestricted	20	72,322		Bell Mobility Inc.	\$1,472,332	\$1,490,000
325	A	Unrestricted	20	5,635,827		Rogers Communications Inc.	\$232,200,000	\$235,000,000
325	D	Set-Aside	10	5,635,827		9193-2962 Québec Inc.	\$95,256,917	\$96,400,000
325	E	Unrestricted	10	5,635,827		TELUS Communications Company	\$101,800,000	\$103,000,000
325	F	Unrestricted	20	5,635,827		Bell Mobility Inc.	\$310,300,000	\$314,000,000
326 326	A	Unrestricted Set-Aside	20 10	591,338 591,338		Rogers Communications Inc. Bragg Communications Inc.	\$9,871,542 \$2,608,696	\$9,990,000
326	D E	Unrestricted	10	591,338		TELUS Communications Company	\$4,911,067	\$2,640,000 \$4,970,000
326	F	Unrestricted	20	591,338		Bell Mobility Inc.	\$14,624,506	\$14,800,000
327	A	Unrestricted	20	607,035		Rogers Communications Inc.	\$7,411,067	\$7,500,000
327	D	Set-Aside	10	607,035		Data & Audio-Visual Enterprises Wireless Inc.	\$2,569,170	\$2,600,000
327	E	Unrestricted	10	607,035		TELUS Communications Company	\$5,049,407	\$5,110,000
327	F	Unrestricted	20	607,035		Bell Mobility Inc.	\$15,019,763	\$15,200,000
328	A	Unrestricted	20	133,987		Rogers Communications Inc.	\$1,719,368	\$1,740,000
328	D	Set-Aside	10	133,987		Bragg Communications Inc.	\$871,542	\$882,000
328	E	Unrestricted	10	133,987	1,339,870	TELUS Communications Company	\$1,215,415	\$1,230,000
328	F	Unrestricted	20	133,987	2,679,740	Bell Mobility Inc.	\$3,320,158	\$3,360,000
329	A	Unrestricted	20	354,971		Rogers Communications Inc.	\$9,328,063	\$9,440,000
329	D	Set-Aside	10	354,971		Data & Audio-Visual Enterprises Wireless Inc.	\$1,363,636	\$1,380,000
329	E	Unrestricted	10	354,971		TELUS Communications Company	\$2,806,324	\$2,840,000
329	F	Unrestricted	20	354,971		Bell Mobility Inc.	\$9,446,640	\$9,560,000
330	A	Unrestricted	20	765,656		Rogers Communications Inc.	\$20,849,802	\$21,100,000
330	D	Set-Aside	10	765,656		Bragg Communications Inc.	\$4,308,300	\$4,360,000
330 330	E F	Unrestricted Unrestricted	10 20	765,656		Bell Mobility Inc.	\$4,861,660	\$4,920,000
331	г А	Unrestricted	20	765,656 107,029		TELUS Communications Company Rogers Communications Inc.	\$20,948,617 \$1,116,601	\$21,200,000 \$1,130,000
331	D D	Set-Aside	10	107,029		Celluworld Inc.	\$920,949	\$932,000
331	E	Unrestricted	10	107,029		Bell Mobility Inc.	\$837,945	\$848,000
331	F	Unrestricted	20	107,029		TELUS Communications Company	\$2,213,439	\$2,240,000
332	A	Unrestricted	20	376,213		Rogers Communications Inc.	\$4,318,182	\$4,370,000
332	D	Set-Aside	10	376,213		Data & Audio-Visual Enterprises Wireless Inc.	\$1,561,265	\$1,580,000
332	E	Unrestricted	10	376,213		Bell Mobility Inc.	\$3,211,463	\$3,250,000
332	F	Unrestricted	20	376,213		TELUS Communications Company	\$5,701,581	\$5,770,000
333	Α	Unrestricted	20	166,739	3,334,780	Rogers Communications Inc.	\$2,065,217	\$2,090,000
333	D	Set-Aside	10	166,739	1,667,390	Bragg Communications Inc.	\$730,237	\$739,000
333	E	Unrestricted	10	166,739	1,667,390	TELUS Communications Company	\$1,699,605	\$1,720,000
333	F	Unrestricted	20	166,739		Bell Mobility Inc.	\$3,428,854	\$3,470,000
334	A	Unrestricted	20	122,253		Rogers Communications Inc.	\$1,067,194	\$1,080,000
334	D	Set-Aside	10	122,253		Bragg Communications Inc.	\$537,549	\$544,000
334	Е	Unrestricted	10	122,253		TELUS Communications Company	\$679,842	\$688,000
334	F	Unrestricted	20	122,253		Bell Mobility Inc.	\$1,007,905	\$1,020,000
335	A	Unrestricted	20	135,482		Rogers Communications Inc.	\$2,005,929	\$2,030,000
335 335	D E	Set-Aside	10 10	135,482		1380057 Alberta Ltd. TELUS Communications Company	\$430,830	\$436,000 \$1,390,000
335	E F	Unrestricted Unrestricted	20	135,482 135,482		Bell Mobility Inc.	\$1,373,518 \$2,114,625	\$2,140,000
336	A	Unrestricted	20	172,605		Rogers Communications Inc.	\$3,181,818	\$3,220,000
336	D	Set-Aside	10	172,605		Bragg Communications Inc.	\$795,455	\$805,000
336	E	Unrestricted	10	172,605		TELUS Communications Company	\$2,025,692	\$2,050,000
336	F	Unrestricted	20	172,605		Bell Mobility Inc.	\$3,310,277	\$3,350,000
337	Α	Unrestricted	20	120,308		Rogers Communications Inc.	\$1,749,012	\$1,770,000
337	D	Set-Aside	10	120,308		Bragg Communications Inc.	\$507,905	\$514,000
337	E	Unrestricted	10	120,308		TELUS Communications Company	\$976,285	\$988,000
337	F	Unrestricted	20	120,308	2,406,160	Bell Mobility Inc.	\$1,749,012	\$1,770,000
338	A	Unrestricted	20	234,833	4,696,660	Rogers Communications Inc.	\$2,658,103	\$2,690,000
338	D	Set-Aside	10	234,833	2,348,330	1380057 Alberta Ltd.	\$792,490	\$802,000
338	E	Unrestricted	10	234,833		TELUS Communications Company	\$2,391,304	\$2,420,000
338	F	Unrestricted	20	234,833		Bell Mobility Inc.	\$3,053,360	\$3,090,000
339	A	Unrestricted	20	945,818		Rogers Communications Inc.	\$34,486,166	\$34,900,000
339	D	Set-Aside	10	945,818		Globalive Wireless LP	\$13,339,921	\$13,500,000
339	Е	Unrestricted	10	945,818		1380057 Alberta Ltd.	\$14,920,949	\$15,100,000
339	F	Unrestricted	20	945,818		TELUS Communications Company	\$34,486,166	\$34,900,000
340	A	Unrestricted	20	172,465		Rogers Communications Inc.	\$1,768,775	\$1,790,000
340	D	Set-Aside	10	172,465		Globalive Wireless LP	\$763,834	\$773,000
340	E F	Unrestricted	10	172,465		1380057 Alberta Ltd.	\$1,581,028	\$1,600,000
340	Г	Unrestricted	20	172,465	3,449,300	TELUS Communications Company	\$1,907,115	\$1,930,000

License

			Bandwidth				Winning Bid	Winning Bid
Market	Block	Set-Aside	(MHz)	Population	MHz * Pop	Winning Bidder	(2008 USD)	(2008 CAD)
341	A	Unrestricted	20	349,538		Rogers Communications Inc.	\$16,897,233	\$17,100,000
341	D	Set-Aside	10	349,538		1380057 Alberta Ltd.	\$4,911,067	\$4,970,000
341	E	Unrestricted	10	349,538	3,495,380	Globalive Wireless LP	\$5,691,700	\$5,760,000
341	F	Unrestricted	20	349,538		TELUS Communications Company	\$17,984,190	\$18,200,000
342	A	Unrestricted	20	104,297		Rogers Communications Inc.	\$4,387,352	\$4,440,000
342	D	Set-Aside	10	104,297		1380057 Alberta Ltd.	\$2,401,186	\$2,430,000
342	E	Unrestricted	10	104,297		Globalive Wireless LP	\$2,658,103	\$2,690,000
342	F	Unrestricted	20	104,297		TELUS Communications Company	\$4,377,470	\$4,430,000
343	A	Unrestricted	20	521,882		TELUS Communications Company	\$31,126,482	\$31,500,000
343	D	Set-Aside	10	521,882		1380057 Alberta Ltd.	\$12,549,407	\$12,700,000
343 343	E F	Unrestricted	10 20	521,882		Globalive Wireless LP	\$11,857,708	\$12,000,000
343 344	F A	Unrestricted	20	521,882 1,199,124		Rogers Communications Inc. Rogers Communications Inc.	\$31,126,482 \$34,980,237	\$31,500,000 \$35,400,000
344	D D	Unrestricted Set-Aside	10	1,199,124		Data & Audio-Visual Enterprises Wireless Inc.	\$8,883,399	\$8,990,000
344	E	Unrestricted	10	1,199,124		Bell Mobility Inc.	\$18,972,332	\$19,200,000
344	F	Unrestricted	20	1,199,124		TELUS Communications Company	\$36,264,822	\$36,700,000
345	A	Unrestricted	20	175,718		Rogers Communications Inc.	\$1,452,569	\$1,470,000
345	D	Set-Aside	10	175,718		1380057 Alberta Ltd.	\$564,229	\$571,000
345	E	Unrestricted	10	175,718		Bell Mobility Inc.	\$855,731	\$866,000
345	F	Unrestricted	20	175,718		TELUS Communications Company	\$1,650,198	\$1,670,000
346	A	Unrestricted	20	156,171		Rogers Communications Inc.	\$1,897,233	\$1,920,000
346	D	Set-Aside	10	156,171		1380057 Alberta Ltd.	\$467,391	\$473,000
346	E	Unrestricted	10	156,171		Bell Mobility Inc.	\$858,696	\$869,000
346	F	Unrestricted	20	156,171		TELUS Communications Company	\$1,897,233	\$1,920,000
347	Α	Unrestricted	20	1,091,673		Rogers Communications Inc.	\$53,458,498	\$54,100,000
347	D	Set-Aside	10	1,091,673		Data & Audio-Visual Enterprises Wireless Inc.	\$8,290,514	\$8,390,000
347	E	Unrestricted	10	1,091,673	10,916,730	Bell Mobility Inc.	\$16,501,976	\$16,700,000
347	F	Unrestricted	20	1,091,673	21,833,460	TELUS Communications Company	\$56,719,368	\$57,400,000
348	A	Unrestricted	20	198,479	3,969,580	Rogers Communications Inc.	\$2,193,676	\$2,220,000
348	D	Set-Aside	10	198,479	1,984,790	Data & Audio-Visual Enterprises Wireless Inc.	\$661,067	\$669,000
348	E	Unrestricted	10	198,479		Bell Mobility Inc.	\$1,007,905	\$1,020,000
348	F	Unrestricted	20	198,479		TELUS Communications Company	\$2,450,593	\$2,480,000
349	A	Unrestricted	20	158,271		Rogers Communications Inc.	\$3,577,075	\$3,620,000
349	D	Set-Aside	10	158,271		Bragg Communications Inc.	\$236,166	\$239,000
349	E	Unrestricted	10	158,271		Bragg Communications Inc.	\$2,094,862	\$2,120,000
349	F	Unrestricted	20	158,271		TELUS Communications Company	\$3,537,549	\$3,580,000
350	A	Unrestricted	20	132,914		Rogers Communications Inc.	\$1,324,111	\$1,340,000
350	D	Set-Aside	10	132,914		1380057 Alberta Ltd.	\$258,893	\$262,000
350 350	E F	Unrestricted	10 20	132,914		Bell Mobility Inc. TELUS Communications Company	\$788,538	\$798,000
351	г А	Unrestricted Unrestricted	20	132,914 368,647		Rogers Communications Inc.	\$1,333,992 \$5,098,814	\$1,350,000 \$5,160,000
351	D D	Set-Aside	10	368,647		1380057 Alberta Ltd.	\$747,036	\$3,100,000
351	E	Unrestricted	10	368,647		Bell Mobility Inc.	\$1,986,166	\$2,010,000
351	F	Unrestricted	20	368,647		TELUS Communications Company	\$5,098,814	\$5,160,000
352	A	Unrestricted	20	2,310,047		Rogers Communications Inc.	\$115,600,000	\$117,000,000
352	D	Set-Aside	10	2,310,047		Data & Audio-Visual Enterprises Wireless Inc.	\$55,731,225	\$56,400,000
352	E	Unrestricted	10	2,310,047		Bell Mobility Inc.	\$61,363,636	\$62,100,000
352	F	Unrestricted	20	2,310,047		TELUS Communications Company	\$115,600,000	\$117,000,000
353	Α	Unrestricted	20	389,247		Rogers Communications Inc.	\$5,602,767	\$5,670,000
353	D	Set-Aside	10	389,247		Data & Audio-Visual Enterprises Wireless Inc.	\$1,729,249	\$1,750,000
353	E	Unrestricted	10	389,247	3,892,470	Bell Mobility Inc.	\$2,766,798	\$2,800,000
353	F	Unrestricted	20	389,247	7,784,940	TELUS Communications Company	\$5,988,142	\$6,060,000
354	A	Unrestricted	20	165,741	3,314,820	Rogers Communications Inc.	\$1,986,166	\$2,010,000
354	D	Set-Aside	10	165,741	1,657,410	1380057 Alberta Ltd.	\$552,372	\$559,000
354	E	Unrestricted	10	165,741		Bell Mobility Inc.	\$986,166	\$998,000
354	F	Unrestricted	20	165,741		TELUS Communications Company	\$2,173,913	\$2,200,000
355	A	Unrestricted	20	106,015		Rogers Communications Inc.	\$1,067,194	\$1,080,000
355	D	Set-Aside	10	106,015		1380057 Alberta Ltd.	\$206,522	\$209,000
355	E	Unrestricted	10	106,015		Bell Mobility Inc.	\$654,150	\$662,000
355	F	Unrestricted	20	106,015		TELUS Communications Company	\$1,146,245	\$1,160,000
356	A	Unrestricted	20	174,289		Rogers Communications Inc.	\$2,134,387	\$2,160,000
356	D	Set-Aside	10	174,289		1380057 Alberta Ltd.	\$582,016	\$589,000
356	E	Unrestricted	10	174,289		Bell Mobility Inc.	\$980,237	\$992,000
356 357	F	Unrestricted	20	174,289		TELUS Communications Company	\$2,223,320	\$2,250,000
357 357	A D	Unrestricted	20 10	200,007		Rogers Communications Inc. 1380057 Alberta Ltd.	\$2,114,625 \$555,336	\$2,140,000
357 357	E E	Set-Aside Unrestricted	10	200,007 200,007		Bell Mobility Inc.	\$555,336 \$1,007,905	\$562,000 \$1,020,000
357 357	E F	Unrestricted	20	200,007		TELUS Communications Company	\$1,986,166	\$2,010,000
358	A	Unrestricted	20	60,717		Rogers Communications Inc.	\$1,333,992	\$1,350,000
330	А	Cinconicica	20	00,717	1,217,340	105015 Communications file.	Ψ1,333,772	Ψ1,330,000

License

			Bandwidth				Winning Bid	Winning Bid
Market	Block	Set-Aside	(MHz)	Population	MHz * Pop	Winning Bidder	(2008 USD)	(2008 CAD)
358	D	Set-Aside	10	60,717	607,170	Rich Telecom Corp.	\$233,202	\$236,000
358	E	Unrestricted	10	60,717	607,170	Bell Mobility Inc.	\$644,269	\$652,000
358	F	Unrestricted	20	60,717	1,214,340	TELUS Communications Company	\$1,254,941	\$1,270,000
359	A	Unrestricted	20	92,707	1,854,140	Rogers Communications Inc.	\$757,905	\$767,000
359	D	Set-Aside	10	92,707	927,070	Globalive Wireless LP	\$99,802	\$101,000
359	E	Unrestricted	10	92,707	927,070	TELUS Communications Company	\$287,549	\$291,000
359	F	Unrestricted	20	92,707	1,854,140	Bell Mobility Inc.	\$853,755	\$864,000

Appendix A Spectrum Auction Data FCC AWS Auction 2006

License

		Bandwidtl	h			Winning Bid	Winning Bid
Market	Block	(MHz)	Population	MHz * Pop	Winning Bidder	(2008 USD)	(2008 CAD)
BEA001	В	20	526,106		SpectrumCo LLC	\$456,762	\$462,248
BEA001	C	10	526,106		Γ-Mobile License LLC	\$330,290	\$334,257
BEA002	В	20	748,817		SpectrumCo LLC	\$3,671,863	\$3,715,963
BEA002	C	10	748,817		Γ-Mobile License LLC	\$2,329,798	\$2,357,780
BEA003	В	20	7,954,554		SpectrumCo LLC	\$80,324,216	\$81,288,939
BEA003	C	10	7,954,554		Cingular AWS, LLC	\$31,847,895	\$32,230,400
BEA004	В	20	605,393		SpectrumCo LLC	\$1,602,324	\$1,621,569
BEA004	C	10	605,393		Vermont Telephone Company, Inc.	\$950,629	\$962,046
BEA005	В	20	1,171,669		SpectrumCo LLC	\$3,046,820	\$3,083,414
BEA005	C	10	1,171,669		AWS Wireless Inc.	\$3,095,946	\$3,133,129
BEA006	В	20	1,902,640		SpectrumCo LLC	\$6,074,826	\$6,147,787
BEA006	C	10	1,902,640		American Cellular Corporation	\$5,872,054	\$5,942,579
BEA007	В	20	1,493,518		SpectrumCo LLC	\$6,065,419	\$6,138,267
BEA007	C	10	1,493,518		Cricket Licensee (Reauction), Inc.	\$3,873,590	\$3,920,114
BEA008	В	20	1,507,759		Cingular AWS, LLC	\$1,769,560	\$1,790,813
BEA008	C	10	1,507,759		Cricket Licensee (Reauction), Inc.	\$1,260,537	\$1,275,676
BEA009	В	20	809,979		SpectrumCo LLC	\$5,222,971	\$5,285,701
BEA009	C	10	809,979		American Cellular Corporation	\$1,339,974	\$1,356,067
BEA010	В	20	25,712,577		SpectrumCo LLC	\$489,349,641	\$495,226,912
BEA010	C	10	25,712,577		MetroPCS AWS, LLC	\$380,403,084	\$384,971,866
BEA011	В	20	1,125,265		SpectrumCo LLC	\$2,480,310	\$2,510,100
BEA011	C	10	1,125,265		Spotlight Media Corp	\$1,516,877	\$1,535,096
BEA012	В	20	7,309,792		SpectrumCo LLC	\$81,357,939	\$82,335,078
BEA012	C	10	7,309,792		Γ-Mobile License LLC	\$58,628,556	\$59,332,707
BEA013	В	20	8,403,130		SpectrumCo LLC	\$155,432,777	\$157,299,582
BEA013	C	10	8,403,130		Cingular AWS, LLC	\$79,505,807	\$80,460,701
BEA014	В	20	363,970		SpectrumCo LLC	\$257,124	\$260,213
BEA014	C	10	363,970		AWS Wireless Inc.	\$113,929	\$115,297
BEA015	В	20	1,446,123		SpectrumCo LLC	\$9,241,847	\$9,352,845
BEA015	C	10	1,446,123		Cingular AWS, LLC	\$4,403,518	\$4,456,405
BEA016	В	20	334,087		SpectrumCo LLC	\$209,044	\$211,555
BEA016	С	10	334,087		AWS Wireless Inc.	\$118,110	\$119,529
BEA017 BEA017	B C	20 10	826,284		SpectrumCo LLC	\$1,276,215	\$1,291,543
BEA018	В	20	826,284 1,854,853		AWS Wireless Inc. SpectrumCo LLC	\$994,006 \$14,618,466	\$1,005,944 \$14,794,039
BEA018	C	10	1,854,853		Cricket Licensee (Reauction), Inc.	\$10,073,843	\$10,194,834
BEA019	В	20	1,831,510		SpectrumCo LLC	\$10,994,683	\$10,174,834
BEA019	C	10	1,831,510		Cricket Licensee (Reauction), Inc.	\$7,800,487	\$7,894,174
BEA020	В	20	1,722,764		SpectrumCo LLC	\$29,922,597	\$30,281,978
BEA020	C	10	1,722,764		Cricket Licensee (Reauction), Inc.	\$7,342,680	\$7,430,868
BEA021	В	20	823,517		SpectrumCo LLC	\$737,926	\$746,789
BEA021	C	10	823,517		AWS Wireless Inc.	\$441,083	\$446,381
BEA022	В	20	528,224		Cingular AWS, LLC	\$457,807	\$463,305
BEA022	C	10	528,224		AWS Wireless Inc.	\$306,250	\$309,928
BEA023	В	20	2,031,519		SpectrumCo LLC	\$14,309,080	\$14,480,938
BEA023	C	10	2,031,519		Cricket Licensee (Reauction), Inc.	\$8,694,151	\$8,798,571
BEA024	В	20	932,115		SpectrumCo LLC	\$5,261,644	\$5,324,839
BEA024	C	10	932,115		AWS Wireless Inc.	\$2,510,622	\$2,540,775
BEA025	В	20	878,267		SpectrumCo LLC	\$8,004,305	\$8,100,440
BEA025	C	10	878,267		AWS Wireless Inc.	\$1,423,591	\$1,440,689
BEA026	В	20	587,297		SpectrumCo LLC	\$3,205,694	\$3,244,195
BEA026	C	10	587,297		Cricket Licensee (Reauction), Inc.	\$1,877,218	\$1,899,764
BEA027	В	20	604,799		SpectrumCo LLC	\$685,665	\$693,900
BEA027	C	10	604,799		AWS Wireless Inc.	\$496,480	\$502,443
BEA028	В	20	668,214		SpectrumCo LLC	\$1,569,922	\$1,588,778
BEA028	C	10	668,214		AWS Wireless Inc.	\$1,567,832	\$1,586,662
BEA029	В	20	1,885,190		SpectrumCo LLC	\$14,167,975	\$14,338,138
BEA029	C	10	1,885,190		Γ-Mobile License LLC	\$5,816,657	\$5,886,517

License	
Bandwidth	

		License				TT 1 TO 1	TT// 1 D11
35.1	.	Bandwidth		3.577 # D	777	Winning Bid	Winning Bid
Market	Block	(MHz)	Population	MHz * Pop	Winning Bidder	(2008 USD)	(2008 CAD)
BEA030	В	20	3,642,540		pectrumCo LLC	\$28,420,614	\$28,761,956
BEA030	C	10	3,642,540		Cingular AWS, LLC	\$16,825,973	\$17,028,059
BEA031	В	20	5,602,222		pectrumCo LLC	\$63,815,990	\$64,582,443
BEA031	C	10	5,602,222		Cingular AWS, LLC	\$22,277,848	\$22,545,413
BEA032	В	20	692,265		pectrumCo LLC	\$1,844,816	\$1,866,973
BEA032	C	10	692,265		WS Wireless Inc.	\$1,159,150	\$1,173,072
BEA033	В	20	763,795		pectrumCo LLC	\$2,293,216	\$2,320,758
BEA033	C	10	763,795		AWS Wireless Inc.	\$1,888,715	\$1,911,399
BEA034	В	20	2,395,997		pectrumCo LLC	\$29,811,803	\$30,169,854
BEA034	C	10	2,395,997		Cingular AWS, LLC	\$27,058,690	\$27,383,675
BEA035	В	20	720,434		pectrumCo LLC	\$1,861,539	\$1,883,897
BEA035	C	10	720,434		Cavalier Wireless, LLC	\$1,124,919	\$1,138,430
BEA036	В	20	332,409		pectrumCo LLC	\$632,359	\$639,954
BEA036	C	10	332,409		AWS Wireless Inc.	\$330,290	\$334,257
BEA037	В	20	468,178		pectrumCo LLC	\$893,664	\$904,397
BEA037	C	10	468,178		AWS Wireless Inc.	\$607,274	\$614,567
BEA038	В	20	768,701	15,374,020 S	pectrumCo LLC	\$1,831,228	\$1,853,222
BEA038	C	10	768,701	7,687,010 A	AWS Wireless Inc.	\$1,053,583	\$1,066,237
BEA039	В	20	496,538	9,930,760 C	Cellular South Licenses, Inc.	\$1,191,552	\$1,205,863
BEA039	C	10	496,538	4,965,380 C	Cricket Licensee (Reauction), Inc.	\$1,228,135	\$1,242,885
BEA040	В	20	5,471,412	109,428,240 S	pectrumCo LLC	\$36,909,902	\$37,353,203
BEA040	C	10	5,471,412	54,714,120 C	Cingular AWS, LLC	\$23,675,309	\$23,959,658
BEA041	В	20	1,248,824	24,976,480 C	Cricket Licensee (Reauction), Inc.	\$5,484,276	\$5,550,145
BEA041	C	10	1,248,824	12,488,240 A	WS Wireless Inc.	\$2,388,331	\$2,417,016
BEA042	В	20	444,594	8,891,880 S	pectrumCo LLC	\$3,518,215	\$3,560,470
BEA042	C	10	444,594	4,445,940 A	WS Wireless Inc.	\$984,599	\$996,424
BEA043	В	20	720,375	14,407,500 S	pectrumCo LLC	\$1,347,290	\$1,363,472
BEA043	C	10	720,375	7,203,750 C	Pricket Licensee (Reauction), Inc.	\$1,244,859	\$1,259,810
BEA044	В	20	983,329		pectrumCo LLC	\$4,802,792	\$4,860,475
BEA044	C	10	983,329		Pricket Licensee (Reauction), Inc.	\$2,723,847	\$2,756,561
BEA045	В	20	576,081		pectrumCo LLC	\$4,558,210	\$4,612,956
BEA045	C	10	576,081		WS Wireless Inc.	\$1,424,637	\$1,441,747
BEA046	В	20	519,208		pectrumCo LLC	\$1,134,065	\$1,147,686
BEA046	C	10	519,208		WS Wireless Inc.	\$628,178	\$635,723
BEA047	В	20	1,851,367		pectrumCo LLC	\$9,630,670	\$9,746,337
BEA047	C	10	1,851,367		Pricket Licensee (Reauction), Inc.	\$5,304,498	\$5,368,207
BEA048	В	20	1,199,373		pectrumCo LLC	\$3,522,396	\$3,564,701
BEA048	C	10	1,199,373		AWS Wireless Inc.	\$1,800,916	\$1,822,546
BEA049	В	20	2,184,860		Cingular AWS, LLC	\$22,884,076	\$23,158,922
BEA049	C	10	2,184,860		Atlantic Wireless, L.P.	\$5,356,498	\$5,420,832
BEA050	В	20	1,133,004		pectrumCo LLC	\$6,944,451	\$7,027,856
BEA050	C	10	1,133,004		Cingular AWS, LLC	\$5,675,552	\$5,743,717
BEA051	В	20	2,349,060		pectrumCo LLC	\$12,993,147	\$13,149,199
BEA051	C	10	2,349,060		Atlantic Wireless, L.P.	\$6,228,213	\$6,303,016
BEA052	В	20	327,645		pectrumCo LLC	\$325,064	\$328,968
BEA052	C	10	327,645		WS Wireless Inc.	\$217,406	\$220,017
BEA053	В	20	2,971,829		pectrumCo LLC	\$15,492,271	\$15,678,339
BEA053	C	10	2,971,829		Atlantic Wireless, L.P.	\$6,406,946	\$6,483,895
BEA054	В	20	519,348		pectrumCo LLC	\$543,515	\$550,043
BEA054	C	10	519,348		American Cellular Corporation	\$221,587	\$224,248
BEA055	В	20	4,692,460		pectrumCo LLC	\$16,729,813	\$16,930,744
BEA055	C	10	4,692,460		Atlantic Wireless, L.P.	\$7,993,592	\$8,089,598
BEA056	В	20	1,294,395		pectrumCo LLC	\$1,738,203	\$1,759,080
BEA056	C	10	1,294,395		Atlantic Wireless, L.P.	\$1,512,174	\$1,530,336
BEA057	В	20	6,963,637		pectrumCo LLC	\$82,559,944	\$83,551,520
BEA057	C	10	6,963,637		MetroPCS AWS, LLC	\$52,592,403	\$53,224,057
BEA057 BEA058	В	20	269,986		American Cellular Corporation	\$169,326	\$171,360
BEA058	C	10	269,986		ISIGHTTEL WIRELESS, LLC	\$88,844	\$89,911
BEA059	В	20	671,225		Singular AWS, LLC	\$1,272,034	\$1,287,312
DL/ WJ/	ט	20	011,443	13,727,300 C	mguiu 1110, LLC	Ψ1,2/2,034	Ψ1,207,312

License	
Bandwidth	

		License					
35 3 .		Bandwidth		3 fff # B	**** * ****	Winning Bid	Winning Bid
Market	Block	(MHz)	Population	MHz * Pop	Winning Bidder	(2008 USD)	(2008 CAD)
BEA059	C	10	671,225		Wittenberg Telephone Company	\$771,373	\$780,638
BEA060	В	20	433,250		Cingular AWS, LLC	\$971,011	\$982,673
BEA060	C	10	433,250		T-Mobile License LLC	\$713,886	\$722,460
BEA061	В	20	286,745		American Cellular Corporation	\$203,818	\$206,266
BEA061	C	10	286,745		NSIGHTTEL WIRELESS, LLC	\$89,889	\$90,969
BEA062	В	20	1,881,991		SpectrumCo LLC	\$9,770,729	\$9,888,079
BEA062	C	10	1,881,991		MetroPCS AWS, LLC	\$8,278,153	\$8,377,577
BEA063	В	20	2,255,183		SpectrumCo LLC	\$23,402,506	\$23,683,579
BEA063	C	10	2,255,183		Cricket Licensee (Reauction), Inc.	\$16,537,492	\$16,736,114
BEA064	В	20	10,328,854		SpectrumCo LLC	\$238,353,322	\$241,216,034
BEA064	C	10	10,328,854		Cingular AWS, LLC	\$169,411,567	\$171,446,263
BEA065	В	20	936,245		SpectrumCo LLC	\$972,056	\$983,731
BEA065	C	10	936,245		Atlantic Wireless, L.P.	\$356,682	\$360,966
BEA066	В	20	725,847	14,516,940	SpectrumCo LLC	\$1,367,150	\$1,383,569
BEA066	C	10	725,847	7,258,470	Atlantic Wireless, L.P.	\$256,341	\$259,419
BEA067	В	20	3,066,469		SpectrumCo LLC	\$13,248,181	\$13,407,296
BEA067	C	10	3,066,469	30,664,690	Cincinnati Bell Wireless LLC	\$10,820,131	\$10,950,085
BEA068	В	20	630,898	12,617,960	SpectrumCo LLC	\$679,394	\$687,554
BEA068	C	10	630,898	6,308,980	Cavalier Wireless, LLC	\$226,552	\$229,273
BEA069	В	20	854,714	17,094,280	SpectrumCo LLC	\$1,095,392	\$1,108,548
BEA069	C	10	854,714	8,547,140	Cavalier Wireless, LLC	\$516,601	\$522,805
BEA070	В	20	1,416,914	28,338,280	SpectrumCo LLC	\$12,857,268	\$13,011,688
BEA070	C	10	1,416,914	14,169,140	Cricket Licensee (Reauction), Inc.	\$5,343,172	\$5,407,345
BEA071	В	20	2,444,643	48,892,860	SpectrumCo LLC	\$12,433,953	\$12,583,290
BEA071	C	10	2,444,643	24,446,430	Cricket Licensee (Reauction), Inc.	\$9,356,822	\$9,469,200
BEA072	В	20	226,586	4,531,720	SpectrumCo LLC	\$215,316	\$217,902
BEA072	C	10	226,586	2,265,860	AWS Wireless Inc.	\$79,437	\$80,391
BEA073	В	20	1,882,332	37,646,640	SpectrumCo LLC	\$19,731,689	\$19,968,674
BEA073	C	10	1,882,332	18,823,320	Cricket Licensee (Reauction), Inc.	\$17,285,871	\$17,493,480
BEA074	В	20	997,824	19,956,480	SpectrumCo LLC	\$3,470,135	\$3,511,812
BEA074	C	10	997,824	9,978,240	Cellular South Licenses, Inc.	\$2,669,495	\$2,701,557
BEA075	В	20	625,002	12,500,040	SpectrumCo LLC	\$637,585	\$645,243
BEA075	C	10	625,002	6,250,020	AWS Wireless Inc.	\$335,516	\$339,546
BEA076	В	20	252,280	5,045,600	SpectrumCo LLC	\$310,431	\$314,159
BEA076	C	10	252,280	2,522,800	AWS Wireless Inc.	\$118,110	\$119,529
BEA077	В	20	1,432,518	28,650,360	SpectrumCo LLC	\$4,402,472	\$4,455,348
BEA077	C	10	1,432,518	14,325,180	Cellular South Licenses, Inc.	\$3,405,331	\$3,446,230
BEA078	В	20	1,578,903	31,578,060	SpectrumCo LLC	\$11,247,627	\$11,382,715
BEA078	C	10	1,578,903	15,789,030	Cellular South Licenses, Inc.	\$7,532,910	\$7,623,383
BEA079	В	20	481,137	9,622,740	SpectrumCo LLC	\$1,075,533	\$1,088,450
BEA079	C	10	481,137	4,811,370	AWS Wireless Inc.	\$817,363	\$827,180
BEA080	В	20	676,258	13,525,160	SpectrumCo LLC	\$9,036,984	\$9,145,521
BEA080	C	10	676,258	6,762,580	Cellular South Licenses, Inc.	\$5,781,119	\$5,850,553
BEA081	В	20	623,252	12,465,040	SpectrumCo LLC	\$3,722,033	\$3,766,736
BEA081	C	10	623,252	6,232,520	T-Mobile License LLC	\$1,526,023	\$1,544,351
BEA082	В	20	396,754	7,935,080	SpectrumCo LLC	\$3,411,602	\$3,452,577
BEA082	C	10	396,754	3,967,540	Cricket Licensee (Reauction), Inc.	\$463,033	\$468,594
BEA083	В	20	1,725,338	34,506,760	SpectrumCo LLC	\$7,163,947	\$7,249,989
BEA083	C	10	1,725,338	17,253,380	AWS Wireless Inc.	\$3,355,161	\$3,395,457
BEA084	В	20	739,673	14,793,460	SpectrumCo LLC	\$2,669,495	\$2,701,557
BEA084	C	10	739,673		Cavalier Wireless, LLC	\$1,592,917	\$1,612,049
BEA085	В	20	601,654		SpectrumCo LLC	\$1,787,329	\$1,808,795
BEA085	C	10	601,654		AWS Wireless Inc.	\$676,258	\$684,380
BEA086	В	20	536,758		Cellco Partnership d/b/a Verizon Wireless	\$3,756,526	\$3,801,643
BEA086	C	10	536,758		Command Connect, LLC	\$1,172,738	\$1,186,823
BEA087	В	20	456,637		SpectrumCo LLC	\$518,430	\$524,656
BEA087	C	10	456,637		Cricket Licensee (Reauction), Inc.	\$621,907	\$629,376
BEA088	В	20	573,616		SpectrumCo LLC	\$3,005,011	\$3,041,103
BEA088	C	10	573,616		MetroPCS AWS, LLC	\$650,128	\$657,936
	-			2,, 20,200		\$ 00 0,1 2 0	+ /,

License	
Bandwidth	

		License				TT// 1 To 1	D.I
	D. 1	Bandwidth		1.577 # D	777 t D111	Winning Bid	Winning Bid
Market	Block	(MHz)	Population	MHz * Pop	Winning Bidder	(2008 USD)	(2008 CAD)
BEA089	В	20	333,519		SpectrumCo LLC	\$1,351,471	\$1,367,703
BEA089	C	10	333,519		AWS Wireless Inc.	\$153,648	\$155,493
BEA090	В	20	1,614,850		SpectrumCo LLC	\$4,249,870	\$4,300,913
BEA090	C	10	1,614,850		AWS Wireless Inc.	\$3,207,784	\$3,246,311
BEA091	В	20	329,136		SpectrumCo LLC	\$385,687	\$390,319
BEA091	C	10	329,136		AWS Wireless Inc.	\$372,099	\$376,568
BEA092	В	20	405,160		SpectrumCo LLC	\$1,422,546	\$1,439,632
BEA092	C	10	405,160		AWS Wireless Inc.	\$606,228	\$613,509
BEA093	В	20	263,904		SpectrumCo LLC	\$329,245	\$333,199
BEA093	C	10	263,904		American Cellular Corporation	\$153,648	\$155,493
BEA094	В	20	859,559		SpectrumCo LLC	\$1,180,055	\$1,194,228
BEA094	C	10	859,559		T-Mobile License LLC	\$631,314	\$638,896
BEA095	В	20	303,852		SpectrumCo LLC	\$199,637	\$202,035
BEA095	C	10	303,852	3,038,520	AWS Wireless Inc.	\$205,909	\$208,382
BEA096	В	20	3,558,651	71,173,020	Barat Wireless, L.P.	\$24,560,873	\$24,855,858
BEA096	C	10	3,558,651		Daredevil Communications LLC	\$8,802,593	\$8,908,315
BEA097	В	20	517,462	10,349,240	SpectrumCo LLC	\$736,881	\$745,731
BEA097	C	10	517,462	5,174,620	Cavalier Wireless, LLC	\$235,175	\$237,999
BEA098	В	20	369,014	7,380,280	SpectrumCo LLC	\$451,536	\$456,959
BEA098	C	10	369,014	3,690,140	Cavalier Wireless, LLC	\$144,241	\$145,973
BEA099	В	20	2,469,340	49,386,800	SpectrumCo LLC	\$24,853,273	\$25,151,770
BEA099	C	10	2,469,340	24,693,400	Cingular AWS, LLC	\$11,349,013	\$11,485,319
BEA100	В	20	1,683,257	33,665,140	SpectrumCo LLC	\$10,093,703	\$10,214,932
BEA100	C	10	1,683,257	16,832,570	T-Mobile License LLC	\$6,014,204	\$6,086,436
BEA101	В	20	528,671	10,573,420	SpectrumCo LLC	\$538,289	\$544,754
BEA101	C	10	528,671	5,286,710	Daredevil Communications LLC	\$178,733	\$180,879
BEA102	В	20	558,913	11,178,260	SpectrumCo LLC	\$1,457,039	\$1,474,538
BEA102	C	10	558,913	5,589,130	T-Mobile License LLC	\$1,246,949	\$1,261,925
BEA103	В	20	384,577	7,691,540	Barat Wireless, L.P.	\$1,171,954	\$1,186,030
BEA103	C	10	384,577		T-Mobile License LLC	\$1,420,456	\$1,437,516
BEA104	В	20	933,823	18,676,460	Barat Wireless, L.P.	\$1,088,075	\$1,101,144
BEA104	C	10	933,823	9,338,230	T-Mobile License LLC	\$507,978	\$514,079
BEA105	В	20	241,903	4,838,060	Barat Wireless, L.P.	\$873,282	\$883,771
BEA105	C	10	241,903		NSIGHTTEL WIRELESS, LLC	\$216,361	\$218,959
BEA106	В	20	318,374		SpectrumCo LLC	\$321,928	\$325,795
BEA106	C	10	318,374	3,183,740	NEIT Wireless, LLC	\$324,541	\$328,439
BEA107	В	20	4,498,286	89,965,720	SpectrumCo LLC	\$43,703,840	\$44,228,740
BEA107	C	10	4,498,286		Cingular AWS, LLC	\$31,352,460	\$31,729,014
BEA108	В	20	487,723		FCC		
BEA108	C	10	487,723	4,877,230	Cingular AWS, LLC	\$2,392,512	\$2,421,247
BEA109	В	20	350,059		American Cellular Corporation	\$1,351,471	\$1,367,703
BEA109	C	10	350,059		Cingular AWS, LLC	\$591,595	\$598,701
BEA110	В	20	230,253		Cingular AWS, LLC	\$385,687	\$390,319
BEA110	C	10	230,253		LL License Holdings II, LLC	\$79,071	\$80,021
BEA111	В	20	111,195		MTPCS License Co., LLC	\$180,823	\$182,995
BEA111	C	10	111,195		Red Rock Spectrum Holdings, LLC	\$37,628	\$38,080
BEA112	В	20	175,427		MTPCS License Co., LLC	\$559,193	\$565,910
BEA112	C	10	175,427		Red Rock Spectrum Holdings, LLC	\$133,788	\$135,395
BEA113	В	20	371,691		Cingular AWS, LLC	\$545,606	\$552,158
BEA113	C	10	371,691		LL License Holdings II, LLC	\$129,712	\$131,270
BEA114	В	20	82,608		James Valley	\$292,401	\$295,913
BEA114	C	10	82,608		FCC	<i>42>2</i> ,.01	42 50,510
BEA115	В	20	213,696		MTPCS License Co., LLC	\$467,214	\$472,825
BEA115	C	10	213,696		Red Rock Spectrum Holdings, LLC	\$143,195	\$144,915
BEA116	В	20	519,143		SpectrumCo LLC	\$982,508	\$994,308
BEA116	C	10	519,143		Cingular AWS, LLC	\$422,269	\$427,341
BEA117	В	20	252,656		SpectrumCo LLC	\$734,791	\$743,616
BEA117	C	10	252,656		LL License Holdings II, LLC	\$579,262	\$586,219
BEA118	В	20	1,044,156		SpectrumCo LLC	\$7,039,566	\$7,124,114
22.1110	D	20	1,077,130	20,003,120	Specialine o DDC	Ψ1,032,300	Ψ1,12-7,11-7

License

		License					
		Bandwidth				Winning Bid	Winning Bid
Market	Block	(MHz)	Population	MHz * Pop	Winning Bidder	(2008 USD)	(2008 CAD)
BEA118	С	10	1,044,156	10,441,560	Cingular AWS, LLC	\$1,815,549	\$1,837,355
BEA119	В	20	379,321	7,586,420	SpectrumCo LLC	\$429,586	\$434,745
BEA119	C	10	379,321	3,793,210	Barat Wireless, L.P.	\$145,024	\$146,766
BEA120	В	20	288,047	5,760,940	SpectrumCo LLC	\$1,087,030	\$1,100,086
BEA120	C	10	288,047	2,880,470	Hemingford Cooperative Telephone Company	\$67,417	\$68,226
BEA121	В	20	61,758	1,235,160	Hemingford Cooperative Telephone Company	\$53,306	\$53,947
BEA121	C	10	61,758	617,580	Hemingford Cooperative Telephone Company	\$14,894	\$15,073
BEA122	В	20	1,175,577	23,511,540	SpectrumCo LLC	\$4,489,226	\$4,543,143
BEA122	C	10	1,175,577	11,755,770	T-Mobile License LLC	\$2,475,084	\$2,504,811
BEA123	В	20	454,539	9,090,780	SpectrumCo LLC	\$1,258,447	\$1,273,561
BEA123	C	10	454,539		Lynch AWS Corporation	\$506,932	\$513,021
BEA124	В	20	1,384,426		SpectrumCo LLC	\$8,076,425	\$8,173,426
BEA124	C	10	1,384,426		AWS Wireless Inc.	\$2,349,658	\$2,377,878
BEA125	В	20	1,698,197		SpectrumCo LLC	\$21,138,557	\$21,392,438
BEA125	C	10	1,698,197		Cricket Licensee (Reauction), Inc.	\$10,555,690	\$10,682,468
BEA126	В	20	139,761		SpectrumCo LLC	\$997,141	\$1,009,117
BEA126	C	10	139,761		AWS Wireless Inc.	\$52,261	\$52,889
BEA127	В	20	7,645,530		SpectrumCo LLC	\$80,279,271	\$81,243,455
BEA127	C	10	7,645,530		MetroPCS AWS, LLC	\$52,016,486	\$52,641,223
BEA128	В	20	222,147		American Cellular Corporation	\$358,511	\$362,817
BEA128	C	10	222,147		AWS Wireless Inc.	\$209,044	\$211,555
BEA129	В	20	202,679		Central Texas Telephone Investments, LP	\$791,233	\$800,736
BEA129	C	10	202,679		American Cellular Corporation	\$450,490	\$455,901
BEA130	В	20	1,349,267		SpectrumCo LLC	\$11,678,258	\$11,818,518
BEA130	C	10	1,349,267		Atlantic Wireless, L.P.	\$3,754,174	\$3,799,263
BEA131	В	20	5,632,853		SpectrumCo LLC	\$42,950,236	\$43,466,084
BEA131	C	10	5,632,853		SpectrumCo LLC	\$19,374,223	\$19,606,915
BEA132	В	20	549,012		SpectrumCo LLC	\$962,649	\$974,211
BEA132	C	10	549,012		Cricket Licensee (Reauction), Inc.	\$732,700	\$741,500
BEA133	В	20	978,369		Cavalier Wireless, LLC	\$1,208,798	\$1,223,317
BEA133	C	10	978,369		Cricket Licensee (Reauction), Inc.	\$1,227,090	\$1,241,828
BEA134	В	20	2,141,060		SpectrumCo LLC	\$8,268,746	\$8,368,057
BEA134	C	10	2,141,060		T-Mobile License LLC	\$5,909,682	\$5,980,659
BEA135	В	20	388,007		Central Texas Telephone Investments, LP	\$1,039,995	\$1,052,486
BEA135	C	10	388,007		AWS Wireless Inc.	\$816,318	\$826,122
BEA136	В	20	190,340		Red Rock Spectrum Holdings, LLC	\$309,386	\$313,101
BEA136	C	10	190,340		AWS Wireless Inc.	\$154,693	\$156,551
BEA137	В	20	374,626		Red Rock Spectrum Holdings, LLC	\$632,359	\$639,954
BEA137	C	10	374,626		AWS Wireless Inc.	\$460,943	\$466,479
BEA138	В	20	481,633		American Cellular Corporation	\$909,343	\$920,264
BEA138	C	10	481,633		AWS Wireless Inc.	\$704,479	\$712,940
BEA139	В	20	258,790		SpectrumCo LLC	\$1,233,361	\$1,248,174
BEA139	C	10	258,790		AWS Wireless Inc.	\$683,575	\$691,785
BEA140	В	20	279,600		SpectrumCo LLC	\$525,746	\$532,061
BEA140	C	10	279,600		Command Connect, LLC	\$163,473	\$165,436
BEA141	В	20	3,984,105		SpectrumCo LLC	\$25,251,503	\$25,554,783
BEA141	C	10	3,984,105		Atlantic Wireless, L.P.	\$7,743,522	\$7,836,525
BEA142	В	20	92,360		Hemingford Cooperative Telephone Company	\$97,206	\$98,373
BEA142	C	10	92,360		Hemingford Cooperative Telephone Company Hemingford Cooperative Telephone Company	\$21,950	\$22,213
BEA143	В	20	408,708		MTPCS License Co., LLC	\$1,246,949	\$1,261,925
BEA143	C	10	408,708		Union Telephone Company	\$371,054	\$375,510
BEA144	В	20	404,902		Cavalier Wireless, LLC	\$413,908	\$418,879
BEA144	C	10	404,902		AWS Wireless Inc.	\$667,896	\$675,918
BEA145	В	20	404,902 166,564		3 Rivers Telephone Cooperative, Inc.	\$455,717	\$461,190
BEA145	C	10	166,564		AWS Wireless Inc.	\$364,782	\$369,163
BEA146	В	20	399,183		Cavalier Wireless, LLC	\$318,270	\$309,103
BEA146	C	10	399,183		AWS Wireless Inc.	\$356,420	\$360,701
		20	829,735		SpectrumCo LLC		
BEA147 BEA147	B C	10	829,735 829,735		Cricket Licensee (Reauction), Inc.	\$2,877,494 \$1,947,247	\$2,912,054 \$1,970,635
DEAIH/	C	10	047,133	0,477,330	CHERCH LICEISCE (INTAUCTION), INC.	φ1,741,241	φ1,7/0,033

License	
Bandwidth	

		License					
3.5 1 .	D1 1	Bandwidth		MII + D	777 · D.11	Winning Bid	Winning Bid
Market	Block	(MHz)	Population	MHz * Pop	Winning Bidder	(2008 USD)	(2008 CAD)
BEA148	В	20	306,120		SpectrumCo LLC	\$845,584	\$855,740
BEA148	C	10	306,120		Union Telephone Company	\$795,413	\$804,967
BEA149	В	20	162,397		SpectrumCo LLC	\$198,592	\$200,977
BEA149	C	10	162,397		Cavalier Wireless, LLC	\$74,472	\$75,366
BEA150	В	20	574,876		Atlantic Wireless, L.P.	\$1,787,329	\$1,808,795
BEA150	C	10	574,876		AWS Wireless Inc.	\$654,309	\$662,167
BEA151	В	20	670,013		SpectrumCo LLC	\$3,408,467	\$3,449,404
BEA151	C	10	670,013		Cavalier Wireless, LLC	\$778,429	\$787,778
BEA152	В	20	2,088,974		SpectrumCo LLC	\$16,885,551	\$17,088,353
BEA152	C	10	2,088,974		Cricket Licensee (Reauction), Inc.	\$7,642,659	\$7,734,450
BEA153	В	20	1,709,797		SpectrumCo LLC	\$17,949,586	\$18,165,167
BEA153	C	10	1,709,797		MetroPCS AWS, LLC	\$10,891,206	\$11,022,014
BEA154	В	20	401,766		SpectrumCo LLC	\$558,148	\$564,852
BEA154	C	10	401,766		Spotlight Media Corp	\$201,466	\$203,886
BEA155	В	20	193,872		SpectrumCo LLC	\$244,582	\$247,519
BEA155	C	10	193,872		AWS Wireless Inc.	\$91,979	\$93,084
BEA156	В	20	921,086		SpectrumCo LLC	\$3,024,871	\$3,061,200
BEA156	C	10	921,086		Cavalier Wireless, LLC	\$1,280,135	\$1,295,510
BEA157	В	20	955,602		SpectrumCo LLC	\$2,663,224	\$2,695,210
BEA157	C	10	955,602	9,556,020	AWS Wireless Inc.	\$1,798,826	\$1,820,431
BEA158	В	20	3,407,197	68,143,940	SpectrumCo LLC	\$28,320,272	\$28,660,409
BEA158	C	10	3,407,197		T-Mobile License LLC	\$14,645,642	\$14,821,541
BEA159	В	20	999,882	19,997,640	SpectrumCo LLC	\$4,949,123	\$5,008,564
BEA159	C	10	999,882		Cingular AWS, LLC	\$2,176,151	\$2,202,287
BEA160	В	20	18,003,420		SpectrumCo LLC	\$225,370,628	\$228,077,412
BEA160	C	10	18,003,420	180,034,200	T-Mobile License LLC	\$120,008,135	\$121,449,477
BEA161	В	20	2,813,833	56,276,660	SpectrumCo LLC	\$22,921,704	\$23,197,002
BEA161	C	10	2,813,833	28,138,330	Cricket Licensee (Reauction), Inc.	\$16,291,865	\$16,487,537
BEA162	В	20	1,419,998	28,399,960	SpectrumCo LLC	\$4,868,641	\$4,927,115
BEA162	C	10	1,419,998	14,199,980	Atlantic Wireless, L.P.	\$2,503,828	\$2,533,900
BEA163	В	20	9,111,806	182,236,120	SpectrumCo LLC	\$84,489,423	\$85,504,172
BEA163	C	10	9,111,806	91,118,060	Atlantic Wireless, L.P.	\$24,069,357	\$24,358,439
BEA164	В	20	2,311,567	46,231,340	SpectrumCo LLC	\$9,279,475	\$9,390,925
BEA164	C	10	2,311,567	23,115,670	Atlantic Wireless, L.P.	\$5,184,821	\$5,247,092
BEA165	В	20	336,820	6,736,400	SpectrumCo LLC	\$374,189	\$378,683
BEA165	C	10	336,820	3,368,200	Atlantic Wireless, L.P.	\$199,899	\$202,299
BEA166	В	20	791,776	15,835,520	SpectrumCo LLC	\$798,549	\$808,140
BEA166	C	10	791,776	7,917,760	Cricket Licensee (Reauction), Inc.	\$394,048	\$398,781
BEA167	В	20	2,883,737	57,674,740	SpectrumCo LLC	\$16,598,115	\$16,797,465
BEA167	C	10	2,883,737	28,837,370	Cingular AWS, LLC	\$11,610,319	\$11,749,763
BEA168	В	20	200,681		SpectrumCo LLC	\$236,220	\$239,057
BEA168	C	10	200,681	2,006,810	AWS Wireless Inc.	\$188,140	\$190,399
BEA169	В	20	677,674	13,553,480	SpectrumCo LLC	\$1,115,251	\$1,128,646
BEA169	C	10	677,674	6,776,740	Daredevil Communications LLC	\$322,189	\$326,059
BEA170	В	20	4,135,291	82,705,820	SpectrumCo LLC	\$34,780,786	\$35,198,516
BEA170	C	10	4,135,291	41,352,910	T-Mobile License LLC	\$16,515,543	\$16,713,900
BEA171	В	20	626,932	12,538,640	AWS Wireless Inc.	\$1,890,805	\$1,913,515
BEA171	C	10	626,932	6,269,320	T-Mobile License LLC	\$1,161,241	\$1,175,188
BEA172	В	20	1,211,537	24,230,740	Cellco Partnership d/b/a Verizon Wireless	\$4,446,372	\$4,499,774
BEA172	C	10	1,211,537	12,115,370	SpectrumCo LLC	\$2,550,340	\$2,580,971
BEA173	В	20	224,026	0	FCC		
BEA173	C	10	224,026	0	FCC		
BEA174	В	20	3,917,222		FCC		
BEA174	C	10	3,917,222		Triad AWS, Inc.	\$1,976,252	\$1,999,988
BEA175	В	20	57,291		FCC		
BEA175	C	10	57,291		FCC		
BEA176	В	20	•		PetroCom License Corporation	\$41,809	\$42,311
BEA176	C	10			PetroCom License Corporation	\$31,357	\$31,733
CMA001	A	20	16,134,166		T-Mobile License LLC	\$414,150,146	\$419,124,243
			, ,				

License	
Bandwidth	

		License				TT// 1 To 1	**** * ***
35.1		Bandwidth		1.5TT # D	W . D. D.	Winning Bid	Winning Bid
Market	Block	(MHz)	Population	MHz * Pop	Winning Bidder	(2008 USD)	(2008 CAD)
CMA002	A	20	15,620,448		Cingular AWS, LLC	\$187,262,902	\$189,511,999
CMA003	A	20	8,091,720		T-Mobile License LLC	\$266,344,350	\$269,543,244
CMA004	A	20	5,036,646		Cricket Licensee (Reauction), Inc.	\$86,298,701	\$87,335,180
CMA005	A	20	4,775,452		T-Mobile License LLC	\$68,134,844	\$68,953,169
CMA006	A	20	4,279,111		T-Mobile License LLC	\$38,450,558	\$38,912,363
CMA007	A	20	4,123,740		T-Mobile License LLC	\$28,182,303	\$28,520,783
CMA008	A	20	4,182,658		Cricket Licensee (Reauction), Inc.	\$139,171,223	\$140,842,721
CMA009	A	20	5,120,721		Cingular AWS, LLC	\$52,973,908	\$53,610,145
CMA010	A	20	4,393,382		T-Mobile License LLC	\$27,120,358	\$27,446,084
CMA011	A	20	2,518,470		Cricket Licensee (Reauction), Inc.	\$26,223,558	\$26,538,513
CMA012	A	20	3,876,380		T-Mobile License LLC	\$37,244,372	\$37,691,691
CMA013	A	20	2,035,968		AWS Wireless Inc.	\$11,202,682	\$11,337,231
CMA014	A	20	2,512,431		Cricket Licensee (Reauction), Inc.	\$45,631,228	\$46,179,276
CMA015	A	20	2,836,298		Cricket Licensee (Reauction), Inc.	\$30,411,760	\$30,777,017
CMA016	A	20	1,863,479		T-Mobile License LLC	\$7,531,865	\$7,622,326
CMA017	A	20	3,751,674	75,033,480	T-Mobile License LLC	\$31,406,811	\$31,784,019
CMA018	A	20	2,813,833	56,276,660	T-Mobile License LLC	\$19,839,346	\$20,077,624
CMA019	A	20	2,405,327	48,106,540	Cingular AWS, LLC	\$13,540,843	\$13,703,473
CMA020	A	20	2,343,058	46,861,160	Cricket Licensee (Reauction), Inc.	\$29,149,133	\$29,499,225
CMA021	A	20	1,500,741	30,014,820	Barat Wireless, L.P.	\$13,979,574	\$14,147,474
CMA022	A	20	2,265,195	45,303,900	T-Mobile License LLC	\$27,030,469	\$27,355,115
CMA023	A	20	1,553,843	31,076,860	Cincinnati Bell Wireless LLC	\$20,330,600	\$20,574,779
CMA024	A	20	1,627,081	32,541,620	Cricket Licensee (Reauction), Inc.	\$15,404,472	\$15,589,486
CMA025	A	20	1,170,111	23,402,220	American Cellular Corporation	\$1,784,193	\$1,805,622
CMA026	A	20	3,072,149	61,442,980	Cingular AWS, LLC	\$19,272,836	\$19,504,310
CMA027	A	20	1,682,585	33,651,700	T-Mobile License LLC	\$12,581,329	\$12,732,436
CMA028	A	20	1,474,128	29,482,560	AWS Wireless Inc.	\$7,335,363	\$7,423,464
CMA029	A	20	1,198,637	23,972,740	Cricket Licensee (Reauction), Inc.	\$6,288,052	\$6,363,573
CMA030	A	20	1,789,457		Cricket Licensee (Reauction), Inc.	\$13,893,082	\$14,059,943
CMA031	A	20	1,394,666		T-Mobile License LLC	\$7,702,236	\$7,794,743
CMA032	A	20	1,148,618	22,972,360	T-Mobile License LLC	\$8,889,608	\$8,996,375
CMA033	A	20	1,559,975		Atlantic Wireless, L.P.	\$5,345,523	\$5,409,725
CMA034	A	20	1,037,831		American Cellular Corporation	\$5,466,508	\$5,532,162
CMA035	A	20	1,640,558		AWS Wireless Inc.	\$8,071,199	\$8,168,137
CMA036	A	20	1,106,808		Cingular AWS, LLC	\$22,656,218	\$22,928,328
CMA037	A	20	968,313		AWS Wireless Inc.	\$4,978,389	\$5,038,182
CMA038	A	20	962,886		T-Mobile License LLC	\$6,839,929	\$6,922,079
CMA039	A	20	1,374,649		T-Mobile License LLC	\$8,005,350	\$8,101,498
CMA040	A	20	848,153		Cincinnati Bell Wireless LLC	\$4,631,376	\$4,687,000
CMA041	A	20	940,795		Cricket Licensee (Reauction), Inc.	\$7,863,200	\$7,957,640
CMA042	A	20	882,567		T-Mobile License LLC	\$7,287,283	\$7,374,806
CMA043	A	20	1,041,276		Cingular AWS, LLC	\$27,788,255	\$28,122,002
CMA044	A	20	844,001		American Cellular Corporation	\$3,758,616	\$3,803,758
CMA045	A	20	1,049,422		Cingular AWS, LLC	\$15,083,589	\$15,264,749
CMA046	A	20	1,231,311		Cellular South Licenses, Inc.	\$8,932,462	\$9,039,744
CMA047	A	20	1,085,874		Cingular AWS, LLC	\$9,524,057	\$9,638,444
CMA048	A	20	805,133		Cingular AWS, LLC	\$1,397,461	\$1,414,245
CMA049	A	20	824,008		T-Mobile License LLC	\$4,319,900	\$4,371,783
CMA050	A	20	876,156		Cingular AWS, LLC	\$3,745,028	\$3,790,007
CMA051	A	20	1,122,750		Cingular AWS, LLC	\$9,459,253	\$9,572,862
CMA052	A	20	694,960		T-Mobile License LLC	\$1,175,874	\$1,189,997
CMA053	A	20	650,154		Cricket Licensee (Reauction), Inc.	\$2,786,560	\$2,820,028
CMA054	A	20	631,362		T-Mobile License LLC	\$659,535	\$667,456
CMA055	A	20	750,963		T-Mobile License LLC	\$1,782,102	\$1,803,506
CMA056	A	20	671,232		AWS Wireless Inc.	\$1,782,102	\$1,846,875
CMA050 CMA057	A	20	841,604		Barat Wireless, L.P.	\$2,432,491	\$2,461,707
CMA057 CMA058	A	20	740,395		T-Mobile License LLC	\$7,983,401	\$8,079,284
CMA058 CMA059	A A	20	740,393 865,941		Cricket Licensee (Reauction), Inc.	\$6,102,002	\$6,175,290
CMA039 CMA060	A A	20			T-Mobile License LLC		
CIVIAUUU	A	20	1,434,033	20,000,000	1-IVIOURE LICEISE LLC	\$14,632,054	\$14,807,790

License	
Bandwidth	

		License				
35.1	.	Bandwidth		NW 4 D	Winning Bid	Winning Bid
Market	Block	(MHz)	Population	MHz * Pop Winning Bidder	(2008 USD)	(2008 CAD)
CMA061	A	20	1,009,496	20,189,920 Cingular AWS, LLC	\$9,606,629	\$9,722,009
CMA062	A	20	750,162	15,003,240 T-Mobile License LLC	\$7,621,754	\$7,713,294
CMA063	A	20	608,479	12,169,580 AWS Wireless Inc.	\$1,985,921	\$2,009,772
CMA064	A	20	812,649	16,252,980 Centennial Michiana License Company LLC		\$7,760,894
CMA065	A	20	673,884	13,477,680 Barat Wireless, L.P.	\$1,613,299	\$1,632,675
CMA066	A	20	482,671	9,653,420 American Cellular Corporation	\$569,646	\$576,487
CMA067	A	20	744,164	14,883,280 Cavalier Wireless, LLC	\$2,315,688	\$2,343,500
CMA068	A	20	507,828	10,156,560 T-Mobile License LLC	\$943,835	\$955,171
CMA069	A	20	650,501	13,010,020 Cricket Licensee (Reauction), Inc.	\$3,954,072	\$4,001,562
CMA070	A	20	615,301	12,306,020 T-Mobile License LLC	\$5,706,909	\$5,775,451
CMA071	A	20	969,387	19,387,740 Cingular AWS, LLC	\$7,770,176	\$7,863,498
CMA072	A	20	1,131,184	22,623,680 T-Mobile License LLC	\$6,317,318	\$6,393,191
CMA073	A	20	753,197	15,063,940 T-Mobile License LLC	\$4,113,991	\$4,163,402
CMA074	A	20	799,407	15,988,140 Cingular AWS, LLC	\$4,329,307	\$4,381,303
CMA075	A	20	1,159,836	23,196,720 T-Mobile License LLC	\$7,668,789	\$7,760,894
CMA076	A	20	534,678	10,693,560 T-Mobile License LLC	\$768,238	\$777,465
CMA077	A	20	843,746	16,874,920 T-Mobile License LLC	\$2,315,165	\$2,342,971
CMA078	A	20	509,246	10,184,920 Centennial Michiana License Company LLC	\$1,878,263	\$1,900,821
CMA079	A	20	576,993	11,539,860 AWS Wireless Inc.	\$2,559,747	\$2,590,491
CMA080	A	20	602,894	12,057,880 Cricket Licensee (Reauction), Inc.	\$2,549,295	\$2,579,913
CMA081	A	20	679,622	13,592,440 T-Mobile License LLC	\$1,211,412	\$1,225,961
CMA082	A	20	700,820	14,016,400 Cricket Licensee (Reauction), Inc.	\$1,146,608	\$1,160,379
CMA083	A	20	540,258	10,805,160 Cricket Licensee (Reauction), Inc.	\$7,124,229	\$7,209,793
CMA084	A	20	509,074	10,181,480 T-Mobile License LLC	\$1,257,401	\$1,272,503
CMA085	A	20	480,091	9,601,820 Carolina West Wireless, Inc.	\$1,703,711	\$1,724,173
CMA086	A	20	646,586	12,931,720 T-Mobile License LLC	\$1,283,532	\$1,298,948
CMA087	A	20	406,934	8,138,680 T-Mobile License LLC	\$479,757	\$485,519
CMA088	A	20	476,531	9,530,620 AWS Wireless Inc.	\$1,259,492	\$1,274,619
CMA089	A	20	512,351	10,247,020 Cingular AWS, LLC	\$3,118,941	\$3,156,400
CMA090	A	20	549,033	10,980,660 Palmetto Rural Telephone Cooperative, Inc.	\$2,670,645	\$2,702,721
CMA091	A	20	2,176,135	43,522,700 Cavalier Wireless, LLC	\$2,093,840	\$2,118,987
CMA092	A	20	583,845	11,676,900 Cricket Licensee (Reauction), Inc.	\$2,422,823	\$2,451,922
CMA093	A	20	1,375,765	27,515,300 Cricket Licensee (Reauction), Inc.	\$8,869,748	\$8,976,277
CMA094	A	20	403,070	8,061,400 Cingular AWS, LLC	\$1,541,701	\$1,560,218
CMA095	A	20	536,691	10,733,820 Cricket Licensee (Reauction), Inc.	\$4,333,488	\$4,385,535
CMA096	A	20	464,066	9,281,320 Cavalier Wireless, LLC	\$603,615	\$610,865
CMA097	A	20	661,645	13,232,900 T-Mobile License LLC	\$1,842,725	\$1,864,857
CMA098	A	20	359,062	7,181,240 Iowa Telecommunications Services, Inc.	\$423,315	\$428,399
CMA099	A	20	473,043	9,460,860 T-Mobile License LLC	\$494,390	\$500,328
CMA100	A	20	392,302	7,846,040 Cellco Partnership d/b/a Verizon Wireless	\$1,357,743	\$1,374,050
CMA101	A	20	385,090	7,701,800 Command Connect, LLC	\$480,645	\$486,418
CMA102	A	20	456,022	9,120,440 Barat Wireless, L.P.	\$2,361,155	\$2,389,513
CMA103	A	20	347,387	6,947,740 Cincinnati Bell Wireless LLC	\$362,692	\$367,048
CMA104	A	20	489,330	9,786,600 Cingular AWS, LLC	\$6,152,173	\$6,226,063
CMA105	A	20	470,658	9,413,160 T-Mobile License LLC	\$2,624,551	\$2,656,073
CMA106	A	20	440,801	8,816,020 Cingular AWS, LLC	\$3,163,885	\$3,201,884
CMA107	A	20	563,598	11,271,960 AWS Wireless Inc.	\$2,283,809	\$2,311,238
CMA108	A	20	452,846	9,056,920 T-Mobile License LLC	\$473,485	\$479,172
CMA109	A	20	417,939	8,358,780 Cavalier Wireless, LLC	\$1,147,653	\$1,161,437
CMA110	A	20	315,538	6,310,760 American Cellular Corporation	\$1,391,190	\$1,407,898
CMA111	A	20	518,821	10,376,420 T-Mobile License LLC	\$3,464,909	\$3,506,524
CMA112	A	20	380,783	7,615,660 Cavalier Wireless, LLC	\$420,179	\$425,225
CMA113	A	20	426,526	8,530,520 Barat Wireless, L.P.	\$663,193	\$671,158
CMA114	A	20	483,924	9,678,480 T-Mobile License LLC	\$2,594,239	\$2,625,397
CMA115	A	20	299,896	5,997,920 American Cellular Corporation	\$885,302	\$895,935
CMA116	A	20	408,326	8,166,520 American Cellular Corporation	\$4,237,327	\$4,288,219
CMA117	A	20	537,484	10,749,680 T-Mobile License LLC	\$589,505	\$596,585
CMA117 CMA118	A	20	373,638	7,472,760 T-Mobile License LLC	\$2,290,080	\$2,317,585
CMA119	A	20	328,695	6,573,900 AWS Wireless Inc.	\$360,601	\$364,932
C	11	20	520,075	5,5 / 5,7 55 / Trib 11 Heless He.	Ψ300,001	ψ504,752

License	
Bandwidth	

		License					
35 3 .	. .	Bandwidth		1.577 # D	W D	Winning Bid	Winning Bid
Market	Block	(MHz)	Population	MHz * Pop	Winning Bidder	(2008 USD)	(2008 CAD)
CMA120	A	20	424,607		Cricket Licensee (Reauction), Inc.	\$2,668,450	\$2,700,499
CMA121	A	20	350,761		T-Mobile License LLC	\$7,034,340	\$7,118,825
CMA122	A	20	294,558		American Cellular Corporation	\$678,349	\$686,496
CMA123	A	20	458,614		AWS Wireless Inc.	\$1,163,331	\$1,177,303
CMA124	A	20	399,347		T-Mobile License LLC	\$2,115,528	\$2,140,936
CMA125	Α	20	358,365		NSIGHTTEL WIRELESS, LLC	\$891,574	\$902,282
CMA126	Α	20	401,762		AWS Wireless Inc.	\$1,018,046	\$1,030,273
CMA127	Α	20	412,153		Cellular South Licenses, Inc.	\$2,585,878	\$2,616,935
CMA128	Α	20	569,463		T-Mobile License LLC	\$757,785	\$766,887
CMA129	Α	20	310,687		FCC		\$0
CMA130	A	20	280,843		American Cellular Corporation	\$324,019	\$327,910
CMA131	Α	20	320,204		T-Mobile License LLC	\$334,471	\$338,488
CMA132	Α	20	314,866		Cingular AWS, LLC	\$478,711	\$484,461
CMA133	A	20	380,841		T-Mobile License LLC	\$1,757,017	\$1,778,120
CMA134	A	20	354,878		Cricket Licensee (Reauction), Inc.	\$1,629,500	\$1,649,071
CMA135	A	20	322,959		T-Mobile License LLC	\$430,631	\$435,803
CMA136	A	20	284,664		T-Mobile License LLC	\$364,782	\$369,163
CMA137	A	20	476,230		T-Mobile License LLC	\$2,777,153	\$2,810,508
CMA138	A	20	322,549		Public Service Wireless Services, Inc.	\$380,461	\$385,030
CMA139	A	20	333,055		Cellular South Licenses, Inc.	\$1,102,709	\$1,115,952
CMA140	A	20	251,662		American Cellular Corporation	\$757,785	\$766,887
CMA141	A	20	243,815		Chequamegon Communications Cooperative, Inc.	\$1,042,138	\$1,054,654
CMA142	A	20	446,997		Cricket Licensee (Reauction), Inc.	\$2,738,480	\$2,771,370
CMA143	A	20	232,621		AWS Wireless Inc.	\$452,581	\$458,017
CMA144	A	20	341,367		American Cellular Corporation	\$1,451,812	\$1,469,249
CMA145	A	20	332,807		Cincinnati Bell Wireless LLC	\$1,578,284	\$1,597,240
CMA146	A	20	443,343		T-Mobile License LLC	\$2,423,868	\$2,452,980
CMA147	A	20	264,919		Cavalier Wireless, LLC	\$207,738	\$210,233
CMA148	A	20	347,214		Stayton Cooperative Telephone Company	\$306,511	\$310,192
CMA149	A	20	302,963		T-Mobile License LLC	\$316,702	\$320,506
CMA150	A	20	368,021		Cricket Licensee (Reauction), Inc.	\$1,251,130	\$1,266,156
CMA151	Α	20	280,150		American Cellular Corporation	\$1,778,967	\$1,800,333
CMA152	A	20	300,826		AWS Wireless Inc.	\$2,444,773	\$2,474,135
CMA153	Α	20	250,929		Public Service Wireless Services, Inc.	\$695,072	\$703,420
CMA154	Α	20	259,088		AWS Wireless Inc.	\$584,279	\$591,296
CMA155	Α	20	293,000		Cricket Licensee (Reauction), Inc.	\$1,053,583	\$1,066,237
CMA156	A	20	298,975		AWS Wireless Inc.	\$713,886	\$722,460
CMA157	Α	20	241,023		NTELOS Inc.	\$618,771	\$626,203
CMA158	Α	20	219,469		Triad AWS, Inc.	\$193,627	\$195,953
CMA159	A	20	368,536		T-Mobile License LLC	\$618,771	\$626,203
CMA160	A	20	312,952		AWS Wireless Inc.	\$493,344	\$499,270
CMA161	A	20	242,628		Daredevil Communications LLC	\$281,426	\$284,806
CMA162	A	20	335,227		T-Mobile License LLC	\$446,310	\$451,670
CMA163	A	20	294,676		Fidelity Communications Company	\$423,785	\$428,875
CMA164	A	20	440,888		T-Mobile License LLC	\$1,846,906	\$1,869,088
CMA165	A	20	255,399		CROSS TELEPHONE COMPANY	\$278,081	\$281,421
CMA166	A	20	264,436		Carolina West Wireless, Inc.	\$659,535	\$667,456
CMA167	A	20	325,957		T-Mobile License LLC	\$1,567,832	\$1,586,662
CMA168	A	20	307,402		T-Mobile License LLC	\$997,141	\$1,009,117
CMA169	A	20	227,412		Cavalier Wireless, LLC	\$177,949	\$180,086
CMA170	A	20	250,158		T-Mobile License LLC	\$344,923	\$349,066
CMA171	A	20	339,486		Cricket Licensee (Reauction), Inc.	\$767,192	\$776,407
CMA172	A	20	250,291		Barat Wireless, L.P.	\$206,170	\$208,646
CMA173	A	20	246,190		Cable One, Inc.	\$3,052,046	\$3,088,703
CMA174	A	20	239,086		Cricket Licensee (Reauction), Inc.	\$296,843	\$300,408
CMA175	A	20	255,602		AWS Wireless Inc.	\$636,540	\$644,185
CMA176	A	20	201,437		T-Mobile License LLC	\$237,265	\$240,115
CMA177	A	20	194,740		Cingular AWS, LLC	\$314,612	\$318,390
CMA178	A	20	153,172	3,063,440	American Cellular Corporation	\$159,919	\$161,840

		License				117' D' 1	117' D' 1
Market	Block	Bandwidth (MHz)	n Population	MHz * Pop	Winning Bidder	Winning Bid (2008 USD)	Winning Bid (2008 CAD)
CMA179	A	20	205,009	4,100,180	Barat Wireless, L.P.	\$363,737	\$368,106
CMA180	A	20	183,632		Cincinnati Bell Wireless LLC	\$402,410	\$407,243
CMA181	A	20	197,073		American Cellular Corporation	\$896,800	\$907,571
CMA182	A	20	311,121		CROSS TELEPHONE COMPANY	\$493,083	\$499,005
CMA183	A	20	225,965		Carolina West Wireless, Inc.	\$829,906	\$839,873
CMA184	A	20	194,477		Cricket Licensee (Reauction), Inc.	\$202,773	\$205,208
CMA185	A	20	170,943		AWS Wireless Inc.	\$188,140	\$190,399
CMA186	A	20	226,778		T-Mobile License LLC	\$715,977	\$724,576
CMA187	A	20	260,283		MTA Communications, Inc.	\$563,374	\$570,141
CMA188	A	20	217,858		Daredevil Communications LLC	\$256,341	\$259,419
CMA189	A	20	188,831		T-Mobile License LLC	\$197,547	\$199,919
CMA190	A	20	300,904		Cable One, Inc.	\$1,176,919	\$1,191,054
CMA191	Α	20	222,581		Red Rock Spectrum Holdings, LLC	\$319,838	\$323,679
CMA192	A	20	244,043		T-Mobile License LLC	\$1,013,865	\$1,026,042
CMA193	A	20	162,453		T-Mobile License LLC	\$169,326	\$171,360
CMA194	A	20	213,517		AWS Wireless Inc.	\$799,594	\$809,198
CMA195	A	20	191,701		Iowa Telecommunications Services, Inc.	\$1,916,936	\$1,939,959
CMA196	A	20	179,669		T-Mobile License LLC	\$212,180	\$214,728
CMA197	A	20	183,577		Cricket Licensee (Reauction), Inc.	\$2,003,689	\$2,027,754
CMA198	A	20	231,809		Cricket Licensee (Reauction), Inc.	\$412,862	\$417,821
CMA199	Α	20	132,008		American Cellular Corporation	\$137,969	\$139,626
CMA200	Α	20	157,110		American Cellular Corporation	\$164,100	\$166,071
CMA201	Α	20	151,337		Iowa Telecommunications Services, Inc.	\$316,702	\$320,506
CMA202	Α	20	199,750		Cavalier Wireless, LLC	\$156,783	\$158,666
CMA203	Α	20	161,946		NTELOS Inc.	\$169,326	\$171,360
CMA204	A	20	190,868		Cavalier Wireless, LLC	\$149,728	\$151,526
CMA205	A	20	145,035		Command Connect, LLC	\$128,824	\$130,371
CMA206	A	20	173,489		AWS Wireless Inc.	\$791,233	\$800,736
CMA207	A	20	158,422		FCC	Φ1.0 C0.02 7	#1.004.20 6
CMA208	A	20	319,426		T-Mobile License LLC	\$1,960,835	\$1,984,386
CMA209	A	20	207,033		AWS Wireless Inc.	\$216,361	\$218,959
CMA211	A	20	251,494		T-Mobile License LLC	\$262,351	\$265,501
CMA211	A	20	264,002		T-Mobile License LLC Cricket Licensee (Reauction), Inc.	\$1,170,648	\$1,184,708 \$258,097
CMA212	A	20	231,969			\$255,034 \$141,105	· · ·
CMA213 CMA214	A A	20 20	134,953 191,822		AWS Wireless Inc. Red Rock Spectrum Holdings, LLC	\$141,105 \$200,682	\$142,800 \$203,093
CMA214 CMA215	A A	20	203,171		AWS Wireless Inc.	\$212,180	\$203,093 \$214,728
CMA215 CMA216	A	20	152,307		T-Mobile License LLC	\$158,874	\$160,782
CMA217	A	20	133,358		Hancock Rural Telephone Corporation	\$493,083	\$499,005
CMA217 CMA218	A	20	233,450		Atlantic Seawinds Communications, LLC	\$1,543,792	\$1,562,333
CMA219	A	20	147,250		Cellco Partnership d/b/a Verizon Wireless	\$251,898	\$254,924
CMA219	A	20	160,245		Central Texas Telephone Investments, LP	\$285,345	\$288,773
CMA221	A	20	174,367		Cable One, Inc.	\$557,103	\$563,794
CMA222	A	20	164,875		Cricket Licensee (Reauction), Inc.	\$942,790	\$954,113
CMA223	A	20	182,791		Ligtel Communications, Inc.	\$183,018	\$185,216
CMA224	A	20	144,919		Barat Wireless, L.P.	\$119,155	\$120,586
CMA225	A	20	129,144		AWS Wireless Inc.	\$275,938	\$279,253
CMA226	A	20	142,950		Cricket Licensee (Reauction), Inc.	\$397,184	\$401,954
CMA227	A	20	165,740		West Carolina Piedmont Bidding Consortium	\$362,483	\$366,836
CMA228	Α	20	146,438		AWS Wireless Inc.	\$152,602	\$154,435
CMA229	A	20	181,269		18th Street Spectrum, LLC	\$160,807	\$162,739
CMA230	A	20	114,706		Daredevil Communications LLC	\$90,150	\$91,233
CMA231	A	20	128,852		Triad AWS, Inc.	\$153,648	\$155,493
CMA232	A	20	148,337		American Cellular Corporation	\$1,246,949	\$1,261,925
CMA233	A	20	142,670		AWS Wireless Inc.	\$174,552	\$176,648
CMA234	A	20	195,033		T-Mobile License LLC	\$1,163,331	\$1,177,303
CMA235	A	20	130,571		Cricket Licensee (Reauction), Inc.	\$465,124	\$470,710
CMA236	A	20	118,769		AWS Wireless Inc.	\$380,461	\$385,030
CMA237	A	20	174,706		AWS Wireless Inc.	\$761,966	\$771,118

License	
Bandwidth	

		License					
35 3 .	.	Bandwidth		1.5TT # D	W B.I.	Winning Bid	Winning Bid
Market	Block	(MHz)	Population	MHz * Pop	Winning Bidder	(2008 USD)	(2008 CAD)
CMA238	A	20	120,293		American Cellular Corporation	\$615,635	\$623,029
CMA239	A	20	157,322		Cable One, Inc.	\$724,338	\$733,038
CMA240	A	20	143,377		Cable One, Inc.	\$754,650	\$763,713
CMA241	A	20	141,472		Red Rock Spectrum Holdings, LLC	\$235,175	\$237,999
CMA242	A	20	207,355		Cricket Licensee (Reauction), Inc.	\$343,878	\$348,008
CMA243	A	20	180,936		T-Mobile License LLC	\$189,185	\$191,457
CMA244	A	20	149,577		T-Mobile License LLC	\$156,783	\$158,666
CMA245	A	20	258,916		AWS Wireless Inc.	\$540,379	\$546,870
CMA246	A	20	137,916		Cellular South Licenses, Inc.	\$659,535	\$667,456
CMA247	A	20	148,955		AWS Wireless Inc.	\$163,055	\$165,013
CMA248	A	20	153,472		Vermont Telephone Company, Inc.	\$819,140	\$828,978
CMA249	A	20	112,249		Cable One, Inc.	\$498,571	\$504,559
CMA250	A	20	150,433		T-Mobile License LLC	\$156,783	\$158,666
CMA251	A	20	120,044		American Cellular Corporation	\$452,581	\$458,017
CMA252	A	20	131,420	2,628,400	Cable One, Inc.	\$626,088	\$633,607
CMA253	A	20	124,130	2,482,600	Cable One, Inc.	\$1,381,783	\$1,398,378
CMA254	A	20	163,256	3,265,120	AWS Wireless Inc.	\$170,371	\$172,417
CMA255	A	20	121,123	2,422,460	Cable One, Inc.	\$546,651	\$553,216
CMA256	A	20	159,576	3,191,520	NTELOS Inc.	\$912,478	\$923,437
CMA257	A	20	131,923	2,638,460	American Cellular Corporation	\$480,802	\$486,576
CMA258	A	20	150,355	0	FCC		
CMA259	A	20	135,758	2,715,160	T-Mobile License LLC	\$744,198	\$753,136
CMA260	A	20	114,996	2,299,920	American Cellular Corporation	\$196,502	\$198,862
CMA261	A	20	120,822	2,416,440	Public Service Wireless Services, Inc.	\$143,195	\$144,915
CMA262	A	20	110,156	2,203,120	AWS Wireless Inc.	\$114,974	\$116,355
CMA263	A	20	125,834	2,516,680	American Cellular Corporation	\$821,544	\$831,411
CMA264	A	20	125,761	2,515,220	FTC Management Group, Inc.	\$746,288	\$755,251
CMA265	A	20	170,498	3,409,960	Cellular South Licenses, Inc.	\$389,868	\$394,550
CMA266	A	20	124,345	2,486,900	American Cellular Corporation	\$173,507	\$175,591
CMA267	A	20	148,281		KTC AWS Limited Partnership	\$445,264	\$450,612
CMA268	A	20	129,352	2,587,040	Blackfoot Telephone Cooperative, Inc.	\$165,249	\$167,234
CMA269	A	20	102,008		American Cellular Corporation	\$461,988	\$467,536
CMA270	A	20	166,814		T-Mobile License LLC	\$174,552	\$176,648
CMA271	A	20	101,541	2,030,820	AWS Wireless Inc.	\$111,839	\$113,182
CMA272	A	20	103,459	2,069,180	Cavalier Wireless, LLC	\$80,743	\$81,713
CMA273	A	20	103,833		T-Mobile License LLC	\$108,703	\$110,009
CMA274	A	20	139,149	2,782,980	AWS Wireless Inc.	\$152,602	\$154,435
CMA275	A	20	102,490	2,049,800	T-Mobile License LLC	\$130,653	\$132,222
CMA276	A	20	97,478		Paul Bunyan Rural Telephone Cooperative	\$125,427	\$126,933
CMA277	A	20	112,646		NSIGHTTEL WIRELESS, LLC	\$907,252	\$918,149
CMA278	A	20	135,454		Fidelity Communications Company	\$299,404	\$303,000
CMA279	A	20	103,793		Barat Wireless, L.P.	\$81,527	\$82,506
CMA280	A	20	130,800		AWS Wireless Inc.	\$144,241	\$145,973
CMA281	A	20	193,117		Cricket Licensee (Reauction), Inc.	\$856,036	\$866,318
CMA282	A	20	120,563		AWS Wireless Inc.	\$568,600	\$575,430
CMA283	A	20	148,217	2,964,340	T-Mobile License LLC	\$182,914	\$185,111
CMA284	A	20	91,070		American Cellular Corporation	\$105,567	\$106,835
CMA285	A	20	174,682		T-Mobile License LLC	\$703,434	\$711,882
CMA286	A	20	89,143		Iowa Telecommunications Services, Inc.	\$364,782	\$369,163
CMA287	A	20	152,415		T-Mobile License LLC	\$436,903	\$442,150
CMA288	A	20	124,277		T-Mobile License LLC	\$129,607	\$131,164
CMA289	A	20	112,818		KTC AWS Limited Partnership	\$122,291	\$123,760
CMA290	A	20	107,120		NEIT Wireless, LLC	\$494,651	\$500,592
CMA291	A	20	84,278		Cricket Licensee (Reauction), Inc.	\$87,799	\$88,853
CMA292	A	20	110,595		Cable One, Inc.	\$606,228	\$613,509
CMA293	A	20	91,545		AWS Wireless Inc.	\$96,160	\$97,315
CMA294	A	20	104,010		Alenco Communications, Inc.	\$342,571	\$346,686
CMA294 CMA295	A	20	116,009		Red Rock Spectrum Holdings, LLC	\$152,602	\$154,435
CMA295 CMA296	A	20	111,006		Iowa Telecommunications Services, Inc.	\$2,261,859	\$2,289,025
0111112/0	11	20	111,000	2,220,120	23a recommendations pervices, me.	Ψ2,201,037	Ψ2,207,023

		License					
Market	Block	Bandwidth (MHz)	Population	MHz * Pop	Winning Bidder	Winning Bid (2008 USD)	Winning Bid (2008 CAD)
CMA297	A	20	80,357		3 Rivers Telephone Cooperative, Inc.	\$244,582	\$247,519
CMA298	A	20	94,719		BEK COMMUNICATIONS COOPERATIVE	\$172,462	\$174,533
CMA299	A	20	66,533		Union Telephone Company	\$163,055	\$165,013
CMA300	A	20	84,088		La Ward Cellular Telephone Company, Inc.	\$214,009	\$216,579
CMA301	A	20	99,962		Red Rock Spectrum Holdings, LLC	\$118,110	\$119,529
CMA302	A	20	57,813		American Cellular Corporation	\$122,291	\$123,760
CMA303	A	20	54,544		T-Mobile License LLC	\$57,487	\$58,178
CMA304	A	20	37,535		T-Mobile License LLC	\$39,718	\$40,195
CMA305	A	20	21,668		Cricket Licensee (Reauction), Inc.	\$133,788	\$135,395
CMA306	A	20	21,000		Cricket Licensee (Reauction), Inc.	\$41,809	\$42,311
CMA307	A	20	361,654		Cricket Licensee (Reauction), Inc.	\$262,351	\$265,501
CMA308	A	20	142,366		Farmers Telecommunications Cooperative, Inc.	\$75,517	\$76,424
CMA309	A	20	135,766		Cricket Licensee (Reauction), Inc.	\$130,653	\$132,222
CMA310	A	20	145,301		Cricket Licensee (Reauction), Inc.	\$187,095	\$189,342
CMA311	A	20	221,338		AWS Wireless Inc.	\$667,896	\$675,918
CMA312	A	20	122,817		AWS Wireless Inc.	\$81,527	\$82,506
CMA313	A	20	171,679		CenturyTel Broadband Wireless LLC	\$121,246	\$122,702
CMA314	A	20	196,259		Public Service Wireless Services, Inc.	\$1,698,485	\$1,718,884
CMA315	A	20	128,275		Space Data Spectrum Holdings, LLC	\$574,610	\$581,512
CMA316	A	20	165,292		MTA Communications, Inc.	\$548,741	\$555,332
CMA317	A	20	73,082		City of Ketchikan dba Ketchikan Public Utilities	\$164,100	\$166,071
CMA318	A	20	155,032		Cricket Licensee (Reauction), Inc.	\$599,957	\$607,163
CMA319	A	20	283,837		Cable One, Inc.	\$733,745	\$742,558
CMA320	A	20	166,893		Cable One, Inc.	\$437,948	\$443,208
CMA321	A	20	179,741		Red Rock Spectrum Holdings, LLC	\$124,381	\$125,875
CMA322	A	20	231,062		Red Rock Spectrum Holdings, LLC	\$213,225	\$215,786
CMA323	A	20	198,172		Cable One, Inc.	\$741,062	\$749,962
CMA324	A	20	82,156		FCC	Ψ/+1,002	Ψ/+2,202
CMA325	A	20	99,177		CenturyTel Broadband Wireless LLC	\$62,713	\$63,466
CMA326	A	20	105,739		Cricket Licensee (Reauction), Inc.	\$77,346	\$78,275
CMA327	A	20	214,681		Cricket Licensee (Reauction), Inc.	\$159,919	\$161,840
CMA328	A	20	118,883		AWS Wireless Inc.	\$78,392	\$79,333
CMA329	A	20	109,491		CenturyTel Broadband Wireless LLC	\$68,985	\$69,813
CMA330	A	20	122,345		Cricket Licensee (Reauction), Inc.	\$80,482	\$81,449
CMA331	A	20	74,034		FCC	φου, 102	Ψ01,112
CMA332	A	20	70,834		Pine Cellular Phones, Inc.	\$96,160	\$97,315
CMA333	A	20	167,641		Cricket Licensee (Reauction), Inc.	\$105,567	\$106,835
CMA334	A	20	67,704		Cellco Partnership d/b/a Verizon Wireless	\$42,854	\$43,369
CMA335	A	20	188,216		FCC	, ,	,
CMA336	A	20	211,348		AWS Wireless Inc.	\$132,743	\$134,337
CMA337	A	20	64,101		AWS Wireless Inc.	\$39,718	\$40,195
CMA338	A	20	148,493		Volcano Internet Provider	\$109,748	\$111,066
CMA339	A	20	386,897		Cricket Licensee (Reauction), Inc.	\$474,530	\$480,230
CMA340	A	20	246,681		AWS Wireless Inc.	\$192,321	\$194,631
CMA341	A	20	30,798		Daredevil Communications LLC	\$14,110	\$14,280
CMA342	A	20	142,361	,	Daredevil Communications LLC	\$66,633	\$67,433
CMA343	A	20	101,296		AWS Wireless Inc.	\$63,759	\$64,524
CMA344	A	20	144,574		AWS Wireless Inc.	\$133,788	\$135,395
CMA345	A	20	95,588		AWS Wireless Inc.	\$62,713	\$63,466
CMA346	A	20	156,299		AWS Wireless Inc.	\$98,251	\$99,431
CMA347	A	20	129,461		Cricket Licensee (Reauction), Inc.	\$159,919	\$161,840
CMA348	A	20	52,879		Union Telephone Company	\$134,834	\$136,453
CMA349	A	20	69,669		Red Rock Spectrum Holdings, LLC	\$95,115	\$96,258
CMA350	A	20	324,669		Red Rock Spectrum Holdings, LLC	\$1,046,267	\$1,058,833
CMA351	A	20	88,225		Red Rock Spectrum Holdings, LLC	\$169,326	\$171,360
CMA352	A	20	36,201		Red Rock Spectrum Holdings, LLC	\$52,261	\$52,889
CMA353	A	20	81,299		Red Rock Spectrum Holdings, LLC	\$148,421	\$150,204
CMA354	A	20	52,425		Red Rock Spectrum Holdings, LLC	\$172,462	\$174,533
CMA355	A	20	47,932		Red Rock Spectrum Holdings, LLC	\$45,990	\$46,542
-			,	-,		,	,-

License

		License					
		Bandwidth				Winning Bid	Winning Bid
Market	Block	(MHz)	Population	MHz * Pop	Winning Bidder	(2008 USD)	(2008 CAD)
CMA356	A	20	31,249	624,980	Red Rock Spectrum Holdings, LLC	\$24,040	\$24,329
CMA357	A	20	182,193	3,643,860	AWS Wireless Inc.	\$113,929	\$115,297
CMA358	A	20	109,091		AWS Wireless Inc.	\$67,939	\$68,755
CMA359	A	20	283,335	5,666,700	Cricket Licensee (Reauction), Inc.	\$555,013	\$561,678
CMA360	A	20	287,587	5,751,740	AWS Wireless Inc.	\$260,260	\$263,386
CMA361	A	20	246,799	4,935,980	AWS Wireless Inc.	\$261,305	\$264,444
CMA362	A	20	200,774	4,015,480	AWS Wireless Inc.	\$211,135	\$213,671
CMA363	A	20	512,760	10,255,200	AWS Wireless Inc.	\$710,751	\$719,287
CMA364	A	20	120,255	2,405,100	AWS Wireless Inc.	\$89,889	\$90,969
CMA365	A	20	62,714	1,254,280	Cavalier Wireless, LLC	\$29,789	\$30,147
CMA366	A	20	118,126	2,362,520	Cavalier Wireless, LLC	\$55,658	\$56,327
CMA367	A	20	57,913	1,158,260	Cavalier Wireless, LLC	\$27,437	\$27,767
CMA368	A	20	44,427	888,540	Cavalier Wireless, LLC	\$21,166	\$21,420
CMA369	A	20	126,893	2,537,860	Cellular South Licenses, Inc.	\$211,135	\$213,671
CMA370	A	20	79,589	1,591,780	AWS Wireless Inc.	\$50,171	\$50,773
CMA371	A	20	256,980	5,139,600	AWS Wireless Inc.	\$1,009,684	\$1,021,811
CMA372	A	20	353,474	7,069,480	AWS Wireless Inc.	\$221,587	\$224,248
CMA373	A	20	230,181	4,603,620	AWS Wireless Inc.	\$159,919	\$161,840
CMA374	A	20	137,356	2,747,120	AWS Wireless Inc.	\$85,708	\$86,738
CMA375	A	20	271,964	5,439,280	Public Service Wireless Services, Inc.	\$1,530,204	\$1,548,582
CMA376	A	20	211,408	4,228,160	Public Service Wireless Services, Inc.	\$1,203,050	\$1,217,499
CMA377	A	20	139,606	0	FCC		
CMA378	A	20	166,601	3,332,020	Cricket Licensee (Reauction), Inc.	\$104,522	\$105,777
CMA379	A	20	124,063	2,481,260	Public Service Wireless Services, Inc.	\$77,346	\$78,275
CMA380	A	20	162,261	3,245,220	Daredevil Communications LLC	\$84,663	\$85,680
CMA381	A	20	162,419	3,248,380	Daredevil Communications LLC	\$84,663	\$85,680
CMA382	A	20	220,558	4,411,160	Cricket Licensee (Reauction), Inc.	\$470,350	\$475,999
CMA383	A	20	157,068	3,141,360	Cavalier Wireless, LLC	\$73,688	\$74,573
CMA384	A	20	268,480	5,369,600	Daredevil Communications LLC	\$140,321	\$142,006
CMA385	A	20	58,463	1,169,260	Cavalier Wireless, LLC	\$27,437	\$27,767
CMA386	A	20	128,241	2,564,820	Cavalier Wireless, LLC	\$60,362	\$61,086
CMA387	A	20	148,677	2,973,540	Cavalier Wireless, LLC	\$69,769	\$70,606
CMA388	A	20	263,355	5,267,100	Blackfoot Telephone Cooperative, Inc.	\$826,247	\$836,171
CMA389	A	20	72,374	1,447,480	Cable One, Inc.	\$234,130	\$236,942
CMA390	A	20	18,818	376,360	AWS Wireless Inc.	\$12,543	\$12,693
CMA391	Α	20	171,215	3,424,300	Cable One, Inc.	\$404,501	\$409,359
CMA392	Α	20	165,296		Cable One, Inc.	\$199,637	\$202,035
CMA393	Α	20	301,991	6,039,820	Cable One, Inc.	\$1,144,517	\$1,158,263
CMA394	Α	20	324,658	6,493,160	T-Mobile License LLC	\$229,949	\$232,710
CMA395	A	20	257,863		T-Mobile License LLC	\$182,914	\$185,111
CMA396	A	20	198,214		Mediapolis Telephone Company	\$250,853	\$253,866
CMA397	A	20	217,323		Cricket Licensee (Reauction), Inc.	\$226,813	\$229,537
CMA398	A	20	94,671		Daredevil Communications LLC	\$44,683	\$45,220
CMA399	A	20	204,307		FCC		
CMA400	A	20	235,571		T-Mobile License LLC	\$147,376	\$149,146
CMA401	A	20	335,376		Mt. Vernon. Net, Inc.	\$177,949	\$180,086
CMA402	A	20	149,603		AWS Wireless Inc.	\$182,914	\$185,111
CMA403	A	20	217,293		T-Mobile License LLC	\$135,879	\$137,511
CMA404	Α	20	188,455		Ligtel Communications, Inc.	\$100,394	\$101,599
CMA405	Α	20	147,332		FCC		
CMA406	A	20	186,514		AWS Wireless Inc.	\$123,336	\$124,817
CMA407	A	20	126,683		AWS Wireless Inc.	\$111,839	\$113,182
CMA408	A	20	220,355		AWS Wireless Inc.	\$699,253	\$707,651
CMA409	A	20	226,189		Smithville Spectrum, LLC	\$1,119,432	\$1,132,877
CMA410	A	20	265,246		Smithville Spectrum, LLC	\$982,508	\$994,308
CMA411	A	20	147,985		Southeastern Indiana Rural Telephone Coop., Inc.	\$515,817	\$522,012
CMA412	A	20	62,744		Iowa Telecommunications Services, Inc.	\$366,873	\$371,279
CMA413	A	20	51,752		Iowa Telecommunications Services, Inc.	\$259,215	\$262,328
CMA414	A	20	90,319	1,806,380	Iowa Telecommunications Services, Inc.	\$610,409	\$617,741

License	
Bandwidth	

		License				TT 1 D11	TT 1 D11
Monlost	Dll.	Bandwidth		MII- * D	Winning Diddon	Winning Bid	Winning Bid
Market	Block	(MHz)	Population	MHz * Pop	Winning Bidder	(2008 USD)	(2008 CAD)
CMA415	A	20	154,644		Mediapolis Telephone Company	\$1,624,274	\$1,643,782
CMA416	A	20	108,853		Iowa Telecommunications Services, Inc.	\$1,235,452	\$1,250,290
CMA419	A	20	158,156		Iowa Telecommunications Services, Inc. Iowa Telecommunications Services, Inc.	\$940,699 \$671,032	\$951,997
CMA418 CMA419	A	20	55,129		· · · · · · · · · · · · · · · · · · ·		\$679,091
	A	20	55,801		LL License Holdings II, LLC	\$564,158 \$580,150	\$570,934 \$587,118
CMA420	A A	20	62,268		LL License Holdings II, LLC Iowa Telecommunications Services, Inc.	\$580,150	\$587,118
CMA421		20	187,593		Iowa Telecommunications Services, Inc.	\$811,092	\$820,833
CMA422 CMA423	A A	20 20	113,903 116,168		Iowa Telecommunications Services, Inc.	\$443,174	\$448,497 \$884,300
					FMTC Wireless, Inc.	\$873,805	\$1,247,963
CMA424	A	20	66,106		· · · · · · · · · · · · · · · · · · ·	\$1,233,152	
CMA425 CMA426	A A	20 20	106,046 84,043		FMTC Wireless, Inc. Iowa Telecommunications Services, Inc.	\$718,746	\$727,379 \$502,443
CMA420 CMA427	A	20	103,341		Mutual Telephone Company	\$496,480	\$302,443
CMA427 CMA428		20				\$326,109	
	A		27,356		The S&T Telephone Cooperative Association, Inc.	\$35,538	\$35,964
CMA429 CMA430	A	20	29,573		Red Rock Spectrum Holdings, LLC	\$36,583	\$37,022
CMA430 CMA431	A	20	51,872		Blue Valley Tele-Communications, Inc.	\$175,597	\$177,706
	A	20	130,681		Blue Valley Tele-Communications, Inc.	\$381,767	\$386,352
CMA432	A	20	117,095		Cricket Licensee (Reauction), Inc.	\$199,637	\$202,035
CMA433	A	20	19,203		The S&T Telephone Cooperative Association, Inc.	\$28,430	\$28,771
CMA434	A	20	80,639		Red Rock Spectrum Holdings, LLC	\$99,296	\$100,489
CMA435	A	20	133,142		Red Rock Spectrum Holdings, LLC	\$342,833	\$346,950
CMA436	A	20	59,627		Cable One, Inc.	\$371,054	\$375,510
CMA437	A	20	113,232		Cricket Licensee (Reauction), Inc.	\$249,808	\$252,808
CMA438	A	20	93,815		Red Rock Spectrum Holdings, LLC	\$152,602	\$154,435
CMA449	A	20	47,468		Red Rock Spectrum Holdings, LLC	\$156,783	\$158,666
CMA440	A	20	28,437		Red Rock Spectrum Holdings, LLC	\$122,291	\$123,760
CMA441	A	20	175,105	3,502,100		\$809,001	\$818,718
CMA442	A	20	154,883		Cable One, Inc.	\$684,620	\$692,843
CMA443 CMA444	A	20	193,495		Daredevil Communications LLC	\$90,934	\$92,026
CMA444 CMA445	A A	20 20	129,201 332,060		AWS Wireless Inc. AWS Wireless Inc.	\$81,527 \$471,395	\$82,506 \$477,056
CMA445 CMA446	A	20	260,291		Aws wheress lic. American Cellular Corporation		
CMA447	A	20	164,614		American Cellular Corporation	\$1,103,754	\$1,117,010 \$423,110
CMA447 CMA448	A A	20	277,683		American Cellular Corporation	\$418,089 \$263,396	\$266,559
CMA449	A	20	187,538		American Cellular Corporation	\$917,704	\$928,726
CMA450	A	20	124,331		American Cellular Corporation	\$180,823	\$182,995
CMA450 CMA451	A	20	196,797		American Cellular Corporation	\$123,336	\$182,993 \$124,817
CMA451 CMA452	A	20	150,757		American Cellular Corporation	\$104,522	\$105,777
CMA453	A	20	167,879		American Cellular Corporation	\$117,065	\$103,777
CMA454	A	20	113,312		Cellco Partnership d/b/a Verizon Wireless	\$71,005	\$71,929
CMA455	A	20	115,346		Cellco Partnership d/b/a Verizon Wireless	\$72,120	\$72,986
CMA456	A	20	150,186		Cellco Partnership d/b/a Verizon Wireless	\$262,351	\$265,501
CMA457	A	20	72,903		Cellco Partnership d/b/a Verizon Wireless	\$45,990	\$46,542
CMA458	A	20	399,898		Cricket Licensee (Reauction), Inc.	\$1,439,270	\$1,456,556
CMA459	A	20	183,474		Cricket Licensee (Reauction), Inc.	\$114,974	\$116,355
CMA460	A	20	191,510		Cricket Licensee (Reauction), Inc.	\$120,200	\$121,644
CMA461	A	20	112,332		Cricket Licensee (Reauction), Inc.	\$70,030	\$70,871
CMA462	A	20	26,757		Cricket Licensee (Reauction), Inc.	\$16,724	\$16,924
CMA463	A	20	84,222		AWS Wireless Inc.	\$53,306	\$53,947
CMA464	A	20	142,061		AWS Wireless Inc.	\$88,844	\$89,911
CMA465	A	20	226,628		AWS Wireless Inc.	\$226,813	\$229,537
CMA466	A	20	85,732		Barat Wireless, L.P.	\$39,980	\$40,460
CMA467	A	20	29,846		American Cellular Corporation	\$58,532	\$59,235
CMA468	A	20	470,726		Cricket Licensee (Reauction), Inc.	\$523,656	\$529,945
CMA469	A	20	195,277		Cricket Licensee (Reauction), Inc.	\$1,214,547	\$1,229,134
CMA470	A	20	71,535		AWS Wireless Inc.	\$44,945	\$45,484
CMA471	A	20	246,737		T-Mobile License LLC	\$154,693	\$156,551
CMA472	A	20	202,821		American Cellular Corporation	\$820,499	\$830,353
CMA473	A	20	114,795		Dakota Wireless Group, LLC	\$159,030	\$160,940
			.,. > 0	,_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	······································	+-57,000	+,

		License				777 · D·1	****
Market	Block	Bandwidth (MHz)	Population	MHz * Pop	Winning Bidder	Winning Bid (2008 USD)	Winning Bid (2008 CAD)
CMA474	A	20	174,862	-	GRI-VALLEY COMMUNICATIONS, INC.	\$93,286	\$94,406
CMA475	A	20	141,199		Vittenberg Telephone Company	\$69,769	\$70,606
CMA476	A	20	169,410		GRI-VALLEY COMMUNICATIONS, INC.	\$176,799	\$178,923
CMA477	A	20	148,997		merican Cellular Corporation	\$663,716	\$671,687
CMA478	A	20	255,329		GRI-VALLEY COMMUNICATIONS, INC.	\$390,024	\$394,709
CMA479	A	20	105,665		GRI-VALLEY COMMUNICATIONS, INC.	\$55,972	\$56,644
CMA480	A	20	304,730		incinnati Bell Wireless LLC	\$200,682	\$203,093
CMA481	A	20	138,892	2,777,840 A	GRI-VALLEY COMMUNICATIONS, INC.	\$212,337	\$214,887
CMA482	A	20	49,661		akota Wireless Group, LLC	\$38,203	\$38,662
CMA483	A	20	65,227		aul Bunyan Rural Telephone Cooperative	\$45,990	\$46,542
CMA484	A	20	58,347		aul Bunyan Rural Telephone Cooperative	\$172,462	\$174,533
CMA485	A	20	16,226		hequamegon Communications Cooperative, Inc.	\$9,773	\$9,890
CMA486	A	20	214,745		merican Cellular Corporation	\$865,443	\$875,838
CMA487	A	20	274,452		merican Cellular Corporation	\$766,147	\$775,349
CMA488	A	20	174,114		-Mobile License LLC	\$158,874	\$160,782
CMA489	A	20	67,816		L License Holdings II, LLC	\$167,915	\$169,932
CMA490	A	20	133,637		L License Holdings II, LLC	\$403,351	\$408,195
CMA491	A	20	240,003		CDW Wireless Limited Partnership	\$402,933	\$407,772
CMA492	A	20	212,896		Iidwest AWS Limited Partnership	\$383,335	\$387,939
CMA493	A	20	183,347		able One, Inc.	\$623,997	\$631,492
CMA494	A	20	258,742		WS Wireless Inc.	\$162,009	\$163,955
CMA495	A	20	160,230		able One, Inc.	\$186,049	\$188,284
CMA496	A	20	130,816		able One, Inc.	\$355,375	\$359,643
CMA497	A	20	160,830		aredevil Communications LLC	\$79,176	\$80,126
CMA498	A	20	189,098		able One, Inc.	\$118,110	\$119,529
CMA499	A	20	188,499		elephone Electronics Coporation	\$215,316	\$217,902
CMA500	A	20	160,376		able One, Inc.	\$484,983	\$490,808
CMA501	A	20	124,367		WS Wireless Inc.	\$78,392	\$79,333
CMA502	A	20	157,867		elephone Electronics Coporation	\$160,964	\$162,897
CMA503	A	20	204,876		elephone Electronics Coporation	\$207,999	\$210,497
CMA504	A	20	42,936		orthwest Missouri Cellular Limited Partnership	\$27,176	\$27,502
CMA505	A	20	35,481		ortheast Missouri Rural Telephone Company	\$24,876	\$25,175
CMA506	A	20	56,401		able One, Inc.	\$218,451	\$221,075
CMA507	A	20	72,404	1,448,080 Gr	reen Hills Area Cellular Telephone, Inc.	\$189,237	\$191,510
CMA508	A	20	69,416	1,388,320 CI	hariton Valley Communication Corporation, Inc.	\$183,018	\$185,216
CMA509	A	20	91,430	1,828,600 CI	hariton Valley Communication Corporation, Inc.	\$55,083	\$55,745
CMA510	A	20	171,259	3,425,180 Gr	rand River Communications, Inc.	\$107,658	\$108,951
CMA511	A	20	116,371	2,327,420 Cı	ricket Licensee (Reauction), Inc.	\$489,164	\$495,039
CMA512	A	20	82,489	1,649,780 Ce	enturyTel Broadband Wireless LLC	\$72,120	\$72,986
CMA513	A	20	105,824	2,116,480 Fi	idelity Communications Company	\$55,972	\$56,644
CMA514	A	20	157,501	3,150,020 Fi	idelity Communications Company	\$101,282	\$102,498
CMA515	A	20	127,624	2,552,480 Fi	idelity Communications Company	\$122,604	\$124,077
CMA516	A	20	96,827	1,936,540 Bi	ig River Telephone Company, LLC	\$45,467	\$46,013
CMA517	A	20	111,359	2,227,180 Ce	enturyTel Broadband Wireless LLC	\$129,607	\$131,164
CMA518	A	20	128,225	2,564,500 Fi	idelity Communications Company	\$165,249	\$167,234
CMA519	A	20	104,516	2,090,320 Fi	idelity Communications Company	\$165,249	\$167,234
CMA520	A	20	55,504		enturyTel Broadband Wireless LLC	\$34,492	\$34,907
CMA521	A	20	123,913		ig River Telephone Company, LLC	\$145,024	\$146,766
CMA522	A	20	197,383	3,947,660 Bl	PS Telephone Company	\$202,564	\$204,997
CMA523	Α	20	156,158	3,123,160 Bl	lackfoot Telephone Cooperative, Inc.	\$406,016	\$410,893
CMA524	A	20	37,077	741,540 C	CTN BIDDING CONSORTIUM	\$29,318	\$29,671
CMA525	A	20	13,555	271,100 C	CTN BIDDING CONSORTIUM	\$11,550	\$11,688
CMA526	A	20	38,513	770,260 C	CTN BIDDING CONSORTIUM	\$39,091	\$39,561
CMA527	A	20	201,482		lackfoot Telephone Cooperative, Inc.	\$199,899	\$202,299
CMA528	A	20	64,977		Rivers Telephone Cooperative, Inc.	\$299,979	\$303,581
CMA529	Α	20	29,729		CTN BIDDING CONSORTIUM	\$24,876	\$25,175
CMA530	Α	20	99,578		Rivers Telephone Cooperative, Inc.	\$113,929	\$115,297
CMA531	Α	20	32,467		CTN BIDDING CONSORTIUM	\$63,079	\$63,837
CMA532	A	20	18,950	379,000 C	CTN BIDDING CONSORTIUM	\$34,649	\$35,065

License					
Bandwidth					

		License					D.I
Market	Block	Bandwidth (MHz)	ı Population	MHz * Pop	Winning Bidder	Winning Bid (2008 USD)	Winning Bid (2008 CAD)
CMA533	A	20	90,410		Hemingford Cooperative Telephone Company	\$158,351	\$160,253
CMA534	A	20	29,189		Three River Telco	\$56,442	\$57,120
CMA535	A	20	117,334		Cable One, Inc.	\$2,027,729	\$2,052,083
CMA536	A	20	34,344		Hemingford Cooperative Telephone Company	\$16,462	\$16,660
CMA537	A	20	149,780		LL License Holdings II, LLC	\$548,166	\$554,750
CMA538	A	20	113,331		Hemingford Cooperative Telephone Company	\$229,687	\$232,446
CMA539	A	20	94,031		Hemingford Cooperative Telephone Company	\$361,385	\$365,726
CMA540	A	20	56,542		Hemingford Cooperative Telephone Company	\$40,764	\$41,253
CMA541	A	20	82,173		Hemingford Cooperative Telephone Company	\$239,878	\$242,759
CMA542	A	20	87,405		Barat Wireless, L.P.	\$224,200	\$226,893
CMA543	A	20	46,781		Churchill County Telephone d/b/a CC Communications	\$29,266	\$29,618
CMA544	A	20	52,736		Churchill County Telephone d/b/a CC Communications	\$33,447	\$33,849
CMA545	A	20	131,616		Cricket Licensee (Reauction), Inc.	\$93,025	\$94,142
CMA546	A	20	38,527		FCC	Ψ,5,025	Ψ)4,142
CMA547	A	20	13,346		WUE INC	\$6,271	\$6,347
CMA548	A	20	229,137		Vermont Telephone Company, Inc.	\$816,475	\$826,281
CMA549	A	20	236,216		AWS Wireless Inc.	\$219,496	\$222,133
CMA550	A	20	121,989		AWS Wireless Inc.	\$76,301	\$77,218
CMA551	A	20	510,916		Cingular AWS, LLC	\$2,251,407	\$2,278,447
CMA552	A	20	144,166		AWS Wireless Inc.	\$275,938	\$279,253
CMA553	A	20	285,363		Red Rock Spectrum Holdings, LLC	\$199,637	\$202,035
CMA554	A	20	24,353		Plateau Telecommunications, Inc.	\$151,557	\$153,377
CMA555	A	20	101,043		Red Rock Spectrum Holdings, LLC	\$103,477	\$104,720
CMA556	A	20	274,809		Plateau Telecommunications, Inc.	\$2,171,970	\$2,198,056
CMA557	A	20	61,950		Red Rock Spectrum Holdings, LLC	\$38,673	\$39,138
CMA558	A	20	250,260		Plateau Telecommunications, Inc.	\$1,491,531	\$1,509,445
CMA559	A	20	250,613		American Cellular Corporation	\$173,507	\$175,591
CMA560	A	20	230,331		American Cellular Corporation	\$144,241	\$145,973
CMA561	A	20	476,152		American Cellular Corporation	\$298,933	\$302,524
CMA562	A	20	355,651		American Cellular Corporation	\$1,371,330	\$1,387,801
CMA563	A	20	393,028		American Cellular Corporation	\$370,008	\$374,452
CMA564	A	20	111,289		American Cellular Corporation	\$109,748	\$111,066
CMA565	A	20	200,333		Carolina West Wireless, Inc.	\$248,763	\$251,750
CMA566	A	20	170,738		Carolina West Wireless, Inc.	\$111,839	\$113,182
CMA567	A	20	171,912		Carolina West Wireless, Inc.	\$112,884	\$114,240
CMA568	A	20	372,614		Carolina West Wireless, Inc.	\$267,577	\$270,790
CMA569	A	20	134,659		ETCOM, LLC	\$221,848	\$224,513
CMA570	A	20	173,138		AWS Wireless Inc.	\$108,703	\$110,009
CMA571	A	20	309,736		AWS Wireless Inc.	\$194,411	\$196,746
CMA572	A	20	296,296		18th Street Spectrum, LLC	\$158,142	\$160,041
CMA573	A	20	120,566		Route 66 Wireless, LLC	\$56,442	\$57,120
CMA574	A	20	326,319		18th Street Spectrum, LLC	\$210,560	\$213,089
CMA575	A	20	244,012		AWS Wireless Inc.	\$152,602	\$154,435
CMA576	A	20	150,306		FCC	,,	, ,
CMA577	A	20	252,756		FCC		
CMA578	A	20	258,014		18th Street Spectrum, LLC	\$137,708	\$139,362
CMA579	A	20	476,998		AWS Wireless Inc.	\$886,348	\$896,993
CMA580	A	20	101,633		North Dakota Network Company	\$63,759	\$64,524
CMA581	A	20	58,222		North Dakota Network Company	\$65,849	\$66,640
CMA582	A	20	88,665		North Dakota Network Company	\$55,397	\$56,062
CMA583	A	20	61,696		Reservation Telephone Cooperative, Inc.	\$72,120	\$72,986
CMA584	A	20	48,018		BEK COMMUNICATIONS COOPERATIVE	\$72,120	\$72,986
CMA585	A	20	128,191		FCC	¥.2,120	\$0
CMA586	A	20	259,513		T-Mobile License LLC	\$163,055	\$165,013
CMA587	A	20	102,728		American Cellular Corporation	\$516,339	\$522,541
CMA588	A	20	229,057		Cincinnati Bell Wireless LLC	\$193,366	\$195,688
CMA589	A	20	239,331		Triad AWS, Inc.	\$126,994	\$128,520
CMA590	A	20	471,304		AWS Wireless Inc.	\$435,857	\$441,092
CMA591	A	20	261,385		American Cellular Corporation	\$212,180	\$214,728
-	•	-	,	, .,. 50	r · ··· ·	. –,0	,

		License	_			W!! D! J	W:
Market	Block	Bandwidth (MHz)	1 Population	MHz * Pop	Winning Bidder	Winning Bid (2008 USD)	Winning Bid (2008 CAD)
CMA592	A	20	179,466	3,589,320	Cincinnati Bell Wireless LLC	\$227,858	\$230,595
CMA593	A	20	243,945		AWS Wireless Inc.	\$568,600	\$575,430
CMA594	A	20	175,317		AWS Wireless Inc.	\$264,441	\$267,617
CMA595	A	20	112,075		American Cellular Corporation	\$70,030	\$70,871
CMA596	A	20	29,112		AWS Wireless Inc.	\$125,427	\$126,933
CMA597	A	20	48,862		American Cellular Corporation	\$94,070	\$95,200
CMA598	A	20	215,441		American Cellular Corporation	\$892,619	\$903,340
CMA599	A	20	208,345		Cable One, Inc.	\$2,073,719	\$2,098,625
CMA600	A	20	60,223		American Cellular Corporation	\$334,471	\$338,488
CMA601	A	20	223,407	4,468,140	CROSS TELEPHONE COMPANY	\$1,405,509	\$1,422,390
CMA602	A	20	126,544	2,530,880	American Cellular Corporation	\$1,038,950	\$1,051,428
CMA603	A	20	94,340	1,886,800	Cable One, Inc.	\$610,409	\$617,741
CMA604	A	20	209,569	4,191,380	Cable One, Inc.	\$1,055,674	\$1,068,353
CMA605	A	20	83,895		Pine Cellular Phones, Inc.	\$532,018	\$538,407
CMA606	A	20	188,444	3,768,880	Cricket Licensee (Reauction), Inc.	\$219,496	\$222,133
CMA607	A	20	79,602		Bend Cable Communications, LLC	\$151,557	\$153,377
CMA608	A	20	158,595		Red Rock Spectrum Holdings, LLC	\$245,627	\$248,577
CMA609	A	20	225,701		Cricket Licensee (Reauction), Inc.	\$541,425	\$547,927
CMA610	A	20	260,041		Red Rock Spectrum Holdings, LLC	\$163,055	\$165,013
CMA611	A	20	213,355		Bend Cable Communications, LLC	\$400,320	\$405,128
CMA612	A	20	196,740		American Cellular Corporation	\$123,336	\$124,817
CMA613	A	20	87,022	1,740,440	American Cellular Corporation	\$60,623	\$61,351
CMA614	A	20	97,367		American Cellular Corporation	\$66,894	\$67,698
CMA615	A	20	97,397		American Cellular Corporation	\$66,894	\$67,698
CMA616	A	20	94,024		AWS Wireless Inc.	\$58,532	\$59,235
CMA617	A	20	382,883	7,657,660	American Cellular Corporation	\$1,933,659	\$1,956,883
CMA618	A	20	218,919		American Cellular Corporation	\$457,807	\$463,305
CMA619	A	20	406,449		AWS Wireless Inc.	\$255,034	\$258,097
CMA620	A	20	189,316		American Cellular Corporation	\$605,183	\$612,452
CMA621	A	20	193,558		AWS Wireless Inc.	\$167,235	\$169,244
CMA622	A	20	114,893		AWS Wireless Inc.	\$99,296	\$100,489
CMA623	A	20	120,327		AWS Wireless Inc.	\$75,256	\$76,160
CMA624	A	20	85,433		T-Mobile License LLC	\$53,306	\$53,947
CMA625	A	20	66,215		West Carolina Piedmont Bidding Consortium	\$42,645	\$43,157
CMA626	A	20	251,847		West Carolina Piedmont Bidding Consortium	\$1,053,688	\$1,066,343
CMA627	A	20	139,940		Chester Telephone Company	\$977,282	\$989,019
CMA628	A	20	222,349		Sandhill Communications, LLC	\$1,047,469	\$1,060,049
CMA629	A	20	287,892		Horry Telephone Cooperative, Inc.	\$966,830	\$978,442
CMA630	A	20	194,484		FTC Management Group, Inc.	\$696,117	\$704,478
CMA631	A	20	158,114		Cricket Licensee (Reauction), Inc.	\$172,462	\$174,533
CMA632	A	20	201,265		Palmetto Rural Telephone Cooperative, Inc.	\$1,312,223	\$1,327,983
CMA633	A	20	225,965		Comporium Wireless, LLC	\$308,340	\$312,044
CMA634	A	20	35,612		KTC AWS Limited Partnership	\$16,462	\$16,660
CMA635	A	20	23,121		KTC AWS Limited Partnership	\$10,975	\$11,107
CMA636	A	20	52,825		KTC AWS Limited Partnership	\$25,085	\$25,387
CMA637	A	20	68,784		KTC AWS Limited Partnership	\$747,072	\$756,045
CMA638	A	20	27,194		KTC AWS Limited Partnership	\$12,543	\$12,693
CMA639	A	20	38,915		KTC AWS Limited Partnership	\$46,251	\$46,807
CMA640	A	20	67,747		KTC AWS Limited Partnership	\$317,486	\$321,299
CMA641	A	20	74,488		KTC AWS Limited Partnership	\$186,572	\$188,813
CMA642	A	20	105,059		KTC AWS Limited Partnership	\$506,410	\$512,492
CMA643	A	20	317,877		AWS Wireless Inc.	\$499,616	\$505,616
CMA644	A	20	177,193		AWS Wireless Inc.	\$110,793	\$112,124
CMA645	A	20	366,706		AWS Wireless Inc.	\$229,949	\$232,710
CMA646	A	20	290,725		Carolina West Wireless, Inc.	\$847,675	\$857,855 \$234,826
CMA649	A	20	369,630		AWS Wireless Inc.	\$232,039 \$517,385	\$234,826 \$523,500
CMA648	A	20	170,150		Cricket Licensee (Reauction), Inc.	\$517,385 \$177,699	\$523,599 \$170,822
CMA649	A	20	282,930		AWS Wireless Inc. Carolina West Wireless, Inc.	\$177,688	\$179,822 \$48,658
CMA650	A	20	17,499	349,980	Caronna west wheress, inc.	\$48,080	\$48,658

License					
Bandwidth					

		License					
N/ . 1 . 4	D11	Bandwidth		MII + D	W	Winning Bid	Winning Bid
Market	Block	(MHz)	Population	MHz * Pop	Winning Bidder	(2008 USD)	(2008 CAD)
CMA651	A	20	69,498		Cellular South Licenses, Inc.	\$56,442	\$57,120
CMA652	A	20	55,812		Red Rock Spectrum Holdings, LLC	\$149,467	\$151,262 \$525,714
CMA653	A	20	89,253		Cable One, Inc.	\$519,475	\$525,714
CMA654	A	20	137,663		Plateau Telecommunications, Inc.	\$574,872	\$581,776
CMA655	A	20	41,975		Red Rock Spectrum Holdings, LLC	\$34,492	\$34,907
CMA656	A	20	77,084		Red Rock Spectrum Holdings, LLC	\$336,561	\$340,604
CMA657	A	20	91,269		AWS Wireless Inc.	\$363,737	\$368,106
CMA658	A	20	392,672		AWS Wireless Inc.	\$303,114	\$306,755
CMA659	A	20	134,426		Red Rock Spectrum Holdings, LLC	\$226,813	\$229,537
CMA660	A	20	193,442		Central Texas Telephone Investments, LP	\$2,925,575	\$2,960,712
CMA661	A	20	335,717		American Cellular Corporation	\$1,672,354	\$1,692,440
CMA662	A	20	300,759		AWS Wireless Inc.	\$504,842	\$510,905
CMA663	A	20	24,696		Big Bend Telecom, LTD	\$47,035	\$47,600
CMA664	A	20	31,027		Big Bend Telecom, LTD	\$87,799	\$88,853
CMA665	A	20	41,757		Central Texas Telephone Investments, LP	\$121,246	\$122,702
CMA666	A	20	194,504		Hill Country Telephone Cooperative, Inc.	\$2,531,160	\$2,561,560
CMA667	A	20	349,585		American Cellular Corporation	\$4,546,713	\$4,601,321
CMA668	A	20	270,140		Red Rock Spectrum Holdings, LLC	\$191,276	\$193,573
CMA669	A	20	227,582		Hill Country Telephone Cooperative, Inc.	\$1,644,499	\$1,664,250
CMA670	A	20	235,315		C&W Enterprises INC.	\$200,787	\$203,199
CMA671	A	20	158,126		Red Rock Spectrum Holdings, LLC	\$328,200	\$332,141
CMA672	A	20	26,031		Command Connect, LLC	\$17,769	\$17,982
CMA673	A	20	136,097		AWS Wireless Inc.	\$222,632	\$225,306
CMA674	A	20	52,080		Manti Telephone Company	\$436,641	\$441,885
CMA675	A	20	62,248		AWS Wireless Inc.	\$167,235	\$169,244
CMA676	A	20	130,138		Manti Telephone Company	\$213,225	\$215,786
CMA677	A	20	80,283		Manti Telephone Company	\$571,475	\$578,338
CMA678	A	20	29,138		Manti Telephone Company	\$22,734	\$23,007
CMA679	A	20	217,353		AWS Wireless Inc.	\$182,914	\$185,111
CMA680	A	20	238,002		AWS Wireless Inc.	\$2,246,181	\$2,273,158
CMA681	A	20	141,297		American Cellular Corporation	\$98,251	\$99,431
CMA682	A	20	136,903		American Cellular Corporation	\$281,165	\$284,541
CMA683	A	20	213,798		NTELOS Inc.	\$247,717	\$250,693
CMA684	A	20	187,302		NTELOS Inc.	\$117,065	\$118,471
CMA685	A	20	62,590 234,162	, ,	NTELOS Inc.	\$39,718	\$40,195
CMA686 CMA687	A A	20 20	94,187		NTELOS Inc. AWS Wireless Inc.	\$293,707 \$59,578	\$297,235 \$60,293
CMA688			94,187			\$59,578 \$57,487	\$58,178
CMA689	A	20 20	91,070		AWS Wireless Inc. AWS Wireless Inc.	\$57,487 \$57,487	\$58,178 \$58,178
CMA690	A				AWS Wireless Inc. AWS Wireless Inc.		
CMA691	A A	20 20	247,404		Cricket Licensee (Reauction), Inc.	\$919,795 \$860,624	\$930,842
CMA691 CMA692	A A	20	300,410 188,579		Cricket Licensee (Reauction), Inc. Cricket Licensee (Reauction), Inc.	\$869,624 \$726,429	\$880,069 \$735,154
CMA692 CMA693	A A	20	279,092		Cricket Licensee (Reauction), Inc. Cricket Licensee (Reauction), Inc.	\$449,445	\$454,843
CMA694	A	20	138,783		Red Rock Spectrum Holdings, LLC	\$86,753	\$87,795
CMA695	A	20	59,058		Red Rock Spectrum Holdings, LLC	\$43,899	\$44,427
CMA696	A	20	116,599		Cricket Licensee (Reauction), Inc.	\$245,627	\$248,577
CMA697	A	20	134,672		Red Rock Spectrum Holdings, LLC	\$95,115	\$96,258
CMA698	A	20	186,356		Cricket Licensee (Reauction), Inc.	\$388,822	\$393,492
CMA699	A	20	29,033		Red Rock Spectrum Holdings, LLC	\$17,769	\$17,982
CMA700	A	20	122,932		Red Rock Spectrum Holdings, LLC	\$258,170	\$261,270
CMA701	A	20	76,985		American Cellular Corporation	\$48,080	\$48,658
CMA702	A	20	76,624		American Cellular Corporation	\$53,306	\$53,947
CMA703	A	20	268,096		American Cellular Corporation	\$1,678,625	\$1,698,786
CMA704	A	20	185,405		American Cellular Corporation	\$515,294	\$521,483
CMA705	A	20	129,431		American Cellular Corporation	\$287,436	\$290,888
CMA705	A	20	166,643		American Cellular Corporation	\$104,522	\$105,777
CMA707	A	20	251,814		American Cellular Corporation	\$157,828	\$159,724
CMA708	A	20	117,992		CTC Telcom, Inc.	\$1,250,032	\$1,265,046
CMA709	A	20	86,105		Chequamegon Communications Cooperative, Inc.	\$1,097,221	\$1,110,399
21.21.10)		20	55,105	1,722,100	communications cooperative, inc.	Ψ1,071,221	Ψ1,110, <i>0</i> ,7)

License					
Bandwidth					

		License					
3.5 1 .		Bandwidth		A TITL & D	**** * D.11	Winning Bid	Winning Bid
Market	Block	(MHz)	Population	MHz * Pop	Winning Bidder	(2008 USD)	(2008 CAD)
CMA710	A	20	142,982		American Cellular Corporation	\$649,082	\$656,878
CMA711	A	20	124,244		American Cellular Corporation	\$704,479	\$712,940
CMA712	A	20	97,679		Cricket Licensee (Reauction), Inc.	\$781,826	\$791,216
CMA713	A	20	120,566		American Cellular Corporation	\$274,893	\$278,195
CMA714	A	20	295,518		Wittenberg Telephone Company	\$349,627	\$353,826
CMA715	A	20	240,609		NEIT Wireless, LLC	\$211,657	\$214,199
CMA716	A	20	403,441	, ,	T-Mobile License LLC	\$591,595	\$598,701
CMA717	A	20	131,035		T-Mobile License LLC	\$325,064	\$328,968
CMA718	Α	20	50,418		Union Telephone Company	\$37,628	\$38,080
CMA719	Α	20	79,864		Union Telephone Company	\$441,083	\$446,381
CMA720	Α	20	147,542		Manti Telephone Company	\$653,786	\$661,638
CMA721	Α	20	137,373		Union Telephone Company	\$85,708	\$86,738
CMA722	A	20	12,052		Union Telephone Company	\$7,526	\$7,616
CMA723	A	20	14,767		FCC		
CMA724	A	20	285,531		FCC		
CMA725	A	20	126,274		FCC		
CMA726	A	20	270,223		FCC		
CMA727	A	20	41,757		FCC		
CMA728	A	20	9,106		FCC		
CMA729	A	20	1,868		FCC		
CMA730	A	20	55,378		Innovative Communication Corporation	\$97,206	\$98,373
CMA731	A	20	53,234		Innovative Communication Corporation	\$95,115	\$96,258
CMA732	A	20	154,805		FCC		
CMA733	A	20	57,291		AST Telecom, LLC	\$35,538	\$35,964
CMA734	A	20	69,221	0	FCC		
REA001	D	10	50,058,090	500,580,900	MetroPCS AWS, LLC	\$577,687,569	\$584,625,811
REA001	E	10	50,058,090		T-Mobile License LLC	\$493,922,485	\$499,854,677
REA001	F	20	50,058,090	1,001,161,800	Cellco Partnership d/b/a Verizon Wireless	\$1,395,761,415	\$1,412,525,027
REA002	D	10	49,676,946	496,769,460	T-Mobile License LLC	\$247,246,065	\$250,215,582
REA002	E	10	49,676,946	496,769,460	T-Mobile License LLC	\$325,058,614	\$328,962,688
REA002	F	20	49,676,946	993,538,920	Cellco Partnership d/b/a Verizon Wireless	\$598,332,781	\$605,518,979
REA003	D	10	58,178,304	581,783,040	Denali Spectrum License, LLC	\$286,478,187	\$289,918,896
REA003	E	10	58,178,304	581,783,040	T-Mobile License LLC	\$372,914,073	\$377,392,910
REA003	F	20	58,178,304	1,163,566,080	Cellco Partnership d/b/a Verizon Wireless	\$643,775,870	\$651,507,856
REA004	D	10	31,326,973	313,269,730	T-Mobile License LLC	\$115,586,848	\$116,975,089
REA004	E	10	31,326,973	313,269,730	Barat Wireless, L.P.	\$82,965,751	\$83,962,201
REA004	F	20	31,326,973		Cellco Partnership d/b/a Verizon Wireless	\$287,430,645	\$290,882,794
REA005	D	10	40,343,960	403,439,600	Cingular AWS, LLC	\$141,056,802	\$142,750,947
REA005	E	10	40,343,960	403,439,600	Cricket Licensee (Reauction), Inc.	\$127,813,848	\$129,348,939
REA005	F	20	40,343,960	806,879,200	T-Mobile License LLC	\$491,557,149	\$497,460,932
REA006	D	10	49,999,164	499,991,640	MetroPCS AWS, LLC	\$371,812,410	\$376,278,015
REA006	E	10	49,999,164	499,991,640	Cingular AWS, LLC	\$379,161,361	\$383,715,230
REA006	F	20	49,999,164	999,983,280	T-Mobile License LLC	\$935,044,568	\$946,274,799
REA007	D	10	626,932	6,269,320	American Cellular Corporation	\$1,145,563	\$1,159,321
REA007	E	10	626,932	6,269,320	American Cellular Corporation	\$1,147,653	\$1,161,437
REA007	F	20	626,932	12,538,640	MTA Communications, Inc.	\$1,240,678	\$1,255,579
REA008	D	10	1,211,537	12,115,370	SpectrumCo LLC	\$1,497,802	\$1,515,791
REA008	E	10	1,211,537	12,115,370	T-Mobile License LLC	\$2,005,780	\$2,029,870
REA008	F	20	1,211,537	24,230,740	T-Mobile License LLC	\$6,383,167	\$6,459,831
REA009	D	10	224,026	0	FCC		
REA009	E	10	224,026	2,240,260	Triad AWS, Inc.	\$52,522	\$53,153
REA009	F	20	224,026	0	FCC		
REA010	D	10	3,917,222	39,172,220	Cingular AWS, LLC	\$2,635,003	\$2,666,650
REA010	E	10	3,917,222	39,172,220	AWS Wireless Inc.	\$2,849,273	\$2,883,494
REA010	F	20	3,917,222	78,344,440	T-Mobile License LLC	\$3,735,621	\$3,780,487
REA011	D	10	57,291		FCC		
REA011	E	10	57,291	0	FCC		
REA011	F	20	57,291		FCC		
REA012	D	10			Space Data Spectrum Holdings, LLC	\$17,246	\$17,453
						,	•

Spectrum Auction Data FCC AWS Auction 2006

License

		Bandwidtl	h			Winning Bid	Winning Bid
Market	Block	(MHz)	Population	MHz * Pop	Winning Bidder	(2008 USD)	(2008 CAD)
REA012	Е	10		0 Sp	ace Data Spectrum Holdings, LLC	\$17,246	\$17,453
REA012	F	20		0 FC	CC		

Appendix A **Spectrum Auction Data** FCC 700 MHz Auction 2008

License	
Randwidth	

		License				**** * ***	****
Manlad	D11.	Bandwidth	Dl-4:	MII- * D	W D. 11	Winning Bid	Winning Bid
Market	Block	(MHz)	Population 526, 106	MHz * Pop	Winning Bidder	(2008 USD)	(2008 CAD)
BEA001	A	12	526,106		King Street Wireless, L.P.	\$973,000	\$984,686
BEA001 BEA002	E	6 12	526,106 748,817		Frontier Wireless LLC	\$118,000	\$119,417
BEA002	A E	6	748,817		King Street Wireless, L.P. Frontier Wireless LLC	\$2,658,000 \$425,000	\$2,689,924 \$430,104
BEA002 BEA003	A	12	7,954,554		MetroPCS 700 MHz, LLC	\$313,267,000	\$317,029,453
BEA003	E	6	7,954,554		QUALCOMM Incorporated	\$45,606,000	\$46,153,745
BEA004	A	12	605,393		King Street Wireless, L.P.	\$2,311,000	\$2,338,756
BEA004	E	6	605,393		Frontier Wireless LLC	\$318,000	\$321,819
BEA005	A	12	1,171,669		Cavalier Wireless, LLC	\$2,888,000	\$2,922,686
BEA005	E	6	1,171,669		Frontier Wireless, ELC	\$424,000	\$429,092
BEA006	A	12	1,902,640	, , , , , , , , , , , , , , , , , , ,	Cavalier Wireless, LLC	\$1,200,000	\$1,214,412
BEA006	E	6	1,902,640		Frontier Wireless LLC	\$2,050,000	\$2,074,621
BEA007	A	12	1,493,518		CenturyTel Broadband Wireless LLC	\$1,539,000	\$1,557,484
BEA007	E	6	1,493,518		Frontier Wireless LLC	\$1,616,000	\$1,635,409
BEA008	A	12	1,507,759		Cavalier Wireless, LLC	\$1,025,000	\$1,037,311
BEA008	E	6	1,507,759		Frontier Wireless LLC	\$971,000	\$982,662
BEA009	A	12	809,979		Cavalier Wireless, LLC	\$1,144,000	\$1,157,740
BEA009	E	6	809,979		Frontier Wireless LLC	\$431,000	\$436,176
BEA010	A	12	25,712,577		Cellco Partnership d/b/a Verizon Wireless	\$429,356,000	\$434,512,725
BEA010	E	6	25,712,577		QUALCOMM Incorporated	\$224,988,000	\$227,690,189
BEA011	A	12	1,125,265		Cavalier Wireless, LLC	\$1,087,000	\$1,100,055
BEA011	E	6	1,125,265	6,751,590	Frontier Wireless LLC	\$375,000	\$379,504
BEA012	A	12	7,309,792	87,717,504	Cellco Partnership d/b/a Verizon Wireless	\$247,613,000	\$250,586,924
BEA012	E	6	7,309,792	43,858,752	QUALCOMM Incorporated	\$47,408,000	\$47,977,388
BEA013	A	12	8,403,130	100,837,560	Cellco Partnership d/b/a Verizon Wireless	\$122,688,000	\$124,161,528
BEA013	E	6	8,403,130	50,418,780	Frontier Wireless LLC	\$61,108,000	\$61,841,930
BEA014	A	12	363,970	4,367,640	Triad 700, LLC	\$684,000	\$692,215
BEA014	E	6	363,970	2,183,820	Frontier Wireless LLC	\$272,000	\$275,267
BEA015	A	12	1,446,123	17,353,476	Continuum 700 LLC	\$7,202,000	\$7,288,499
BEA015	E	6	1,446,123		Frontier Wireless LLC	\$3,324,000	\$3,363,922
BEA016	A	12	334,087	4,009,044	Cavalier Wireless, LLC	\$533,000	\$539,402
BEA016	E	6	334,087		Frontier Wireless LLC	\$75,000	\$75,901
BEA017	A	12	826,284		King Street Wireless, L.P.	\$3,151,000	\$3,188,845
BEA017	E	6	826,284		Frontier Wireless LLC	\$342,000	\$346,108
BEA018	A	12	1,854,853		Cavalier Wireless, LLC	\$4,872,000	\$4,930,515
BEA018	E	6	1,854,853		Frontier Wireless LLC	\$4,463,000	\$4,516,602
BEA019	A	12	1,831,510		King Street Wireless, L.P.	\$9,080,000	\$9,189,054
BEA019	E	6	1,831,510		Frontier Wireless LLC	\$3,885,000	\$3,931,660
BEA020 BEA020	A	12	1,722,764		Cox Wireless, Inc. Frontier Wireless LLC	\$18,868,000 \$6,391,000	\$19,094,612
BEA020	E A	6 12	1,722,764 823,517		Cavalier Wireless, LLC	\$1,613,000	\$6,467,758 \$1,632,373
BEA021	E	6	823,517		Frontier Wireless LLC	\$371,000	\$375,456
BEA022	A	12	528,224	, ,	AWS Spectrum, LLC	\$887,000	\$897,653
BEA022	E	6	528,224		Frontier Wireless LLC	\$173,000	\$175,078
BEA023	A	12	2,031,519		Cavalier Wireless, LLC	\$7,811,000	\$7,904,813
BEA023	E	6	2,031,519	, , , , , , , , , , , , , , , , , , ,	Frontier Wireless LLC	\$6,650,000	\$6,729,869
BEA024	A	12	932,115		Cavalier Wireless, LLC	\$2,782,000	\$2,815,413
BEA024	E	6	932,115		Frontier Wireless LLC	\$963,000	\$974,566
BEA025	A	12	878,267	10,539,204	Horry Telephone Cooperative, Inc.	\$8,469,000	\$8,570,716
BEA025	E	6	878,267		Frontier Wireless LLC	\$705,000	\$713,467
BEA026	A	12	587,297		Continuum 700 LLC	\$3,955,000	\$4,002,501
BEA026	E	6	587,297	3,523,782	Frontier Wireless LLC	\$538,000	\$544,462
BEA027	A	12	604,799	7,257,588	Cavalier Wireless, LLC	\$1,259,000	\$1,274,121
BEA027	E	6	604,799	3,628,794	Frontier Wireless LLC	\$757,000	\$766,092
BEA028	A	12	668,214		Continuum 700 LLC	\$3,899,000	\$3,945,828
BEA028	E	6	668,214		Frontier Wireless LLC	\$394,000	\$398,732
BEA029	A	12	1,885,190		Continuum 700 LLC	\$29,852,000	\$30,210,534
BEA029	E	6	1,885,190	11,311,140	Frontier Wireless LLC	\$7,543,000	\$7,633,594

License
Randwidth

		License					
Manlad	D11-	Bandwidth	Dl-4'	MII- * D	W:	Winning Bid	Winning Bid
Market BEA030	Block	(MHz)	Population 3,642,540	MHz * Pop	Winning Bidder Cellco Partnership d/b/a Verizon Wireless	(2008 USD) \$66,463,000	(2008 CAD) \$67,261,245
BEA030	A E	6	3,642,540		Frontier Wireless LLC	\$30,071,000	\$30,432,164
BEA031	A	12	5,602,222		Cellco Partnership d/b/a Verizon Wireless	\$64,773,000	\$65,550,948
BEA031	E	6	5,602,222		Frontier Wireless LLC	\$26,110,000	\$26,423,591
BEA032	A	12	692,265		Continuum 700 LLC	\$5,726,000	\$5,794,771
BEA032	E	6	692,265		Frontier Wireless LLC	\$353,000	\$357,240
BEA033	A	12	763,795		Continuum 700 LLC	\$6,101,000	\$6,174,275
BEA033	E	6	763,795		Frontier Wireless LLC	\$410,000	\$414,924
BEA034	A	12	2,395,997		Cellco Partnership d/b/a Verizon Wireless	\$102,138,000	\$103,364,715
BEA034	Е	6	2,395,997		Frontier Wireless LLC	\$12,410,000	\$12,559,049
BEA035	A	12	720,434	8,645,208	Cavalier Wireless, LLC	\$4,138,000	\$4,187,699
BEA035	E	6	720,434	4,322,604	Frontier Wireless LLC	\$680,000	\$688,167
BEA036	A	12	332,409	3,988,908	CenturyTel Broadband Wireless LLC	\$7,973,000	\$8,068,759
BEA036	E	6	332,409	1,994,454	Frontier Wireless LLC	\$625,000	\$632,506
BEA037	A	12	468,178	5,618,136	Cavalier Wireless, LLC	\$647,000	\$654,771
BEA037	E	6	468,178	2,809,068	Frontier Wireless LLC	\$276,000	\$279,315
BEA038	A	12	768,701	9,224,412	Cox Wireless, Inc.	\$2,635,000	\$2,666,647
BEA038	E	6	768,701	4,612,206	Frontier Wireless LLC	\$573,000	\$579,882
BEA039	A	12	496,538	5,958,456	Cellular South Licenses, Inc.	\$3,299,000	\$3,338,622
BEA039	E	6	496,538	2,979,228	Frontier Wireless LLC	\$398,000	\$402,780
BEA040	A	12	5,471,412	65,656,944	Cellco Partnership d/b/a Verizon Wireless	\$103,388,000	\$104,629,728
BEA040	E	6	5,471,412	32,828,472	Frontier Wireless LLC	\$32,098,000	\$32,483,509
BEA041	Α	12	1,248,824	14,985,888	Cavalier Wireless, LLC	\$3,181,000	\$3,219,205
BEA041	E	6	1,248,824		Frontier Wireless LLC	\$948,000	\$959,386
BEA042	Α	12	444,594		Cavalier Wireless, LLC	\$1,440,000	\$1,457,295
BEA042	E	6	444,594		Frontier Wireless LLC	\$226,000	\$228,714
BEA043	A	12	720,375		Cellular South Licenses, Inc.	\$15,121,000	\$15,302,609
BEA043	E	6	720,375		Frontier Wireless LLC	\$652,000	\$659,831
BEA044	A	12	983,329		Cellular South Licenses, Inc.	\$13,695,000	\$13,859,482
BEA044	E	6	983,329		Frontier Wireless LLC	\$842,000	\$852,113
BEA045	A	12	576,081		Cellular South Licenses, Inc.	\$1,108,000	\$1,121,307
BEA045 BEA046	E	6 12	576,081		Frontier Wireless LLC	\$303,000	\$306,639 \$1,153,692
BEA046	A E	6	519,208 519,208		King Street Wireless, L.P. Frontier Wireless LLC	\$1,140,000 \$421,000	\$426,056
BEA047	A	12	1,851,367		Cavalier Wireless, LLC	\$3,925,000	\$3,972,141
BEA047	E	6	1,851,367		Frontier Wireless LLC	\$2,914,000	\$2,948,998
BEA048	A	12	1,199,373		King Street Wireless, L.P.	\$1,993,000	\$2,016,937
BEA048	E	6	1,199,373		Frontier Wireless LLC	\$401,000	\$405,816
BEA049	A	12	2,184,860		Cellco Partnership d/b/a Verizon Wireless	\$23,601,000	\$23,884,457
BEA049	E	6	2,184,860		Frontier Wireless LLC	\$4,840,000	\$4,898,130
BEA050	A	12	1,133,004	13,596,048	Cincinnati Bell Wireless LLC	\$2,628,000	\$2,659,563
BEA050	E	6	1,133,004	6,798,024	Frontier Wireless LLC	\$695,000	\$703,347
BEA051	A	12	2,349,060	28,188,720	Continuum 700 LLC	\$7,814,000	\$7,907,849
BEA051	E	6	2,349,060	14,094,360	Frontier Wireless LLC	\$3,295,000	\$3,334,574
BEA052	A	12	327,645	3,931,740	FCC		
BEA052	E	6	327,645	1,965,870	Frontier Wireless LLC	\$100,000	\$101,201
BEA053	A	12	2,971,829	35,661,948	MCBRIDE SPECTRUM PARTNERS, LLC	\$8,407,000	\$8,507,971
BEA053	E	6	2,971,829	17,830,974	Frontier Wireless LLC	\$3,757,000	\$3,802,123
BEA054	Α	12	519,348	6,232,176	Triad 700, LLC	\$379,000	\$383,552
BEA054	E	6	519,348		Frontier Wireless LLC	\$128,000	\$129,537
BEA055	Α	12	4,692,460		Cellco Partnership d/b/a Verizon Wireless	\$18,654,000	\$18,878,041
BEA055	E	6	4,692,460		Frontier Wireless LLC	\$4,716,000	\$4,772,641
BEA056	A	12	1,294,395		Cavalier Wireless, LLC	\$3,620,000	\$3,663,478
BEA056	E	6	1,294,395		Frontier Wireless LLC	\$405,000	\$409,864
BEA057	A	12	6,963,637		Cellco Partnership d/b/a Verizon Wireless	\$79,490,000	\$80,444,704
BEA057	E	6	6,963,637		Frontier Wireless LLC	\$32,719,000	\$33,111,967
BEA058	A	12	269,986		CenturyTel Broadband Wireless LLC	\$450,000	\$455,405
BEA058	E	6	269,986		Frontier Wireless LLC	\$318,000	\$321,819
BEA059	A	12	671,225	8,054,700	CenturyTel Broadband Wireless LLC	\$12,170,000	\$12,316,166

		License				****	
Markat	Dlask	Bandwidth	Donulation	MIIa * Don	Winning Diddon	Winning Bid	Winning Bid
Market	Block	(MHz)	Population 671 225	MHz * Pop	Winning Bidder	(2008 USD)	(2008 CAD)
BEA059	E	6	671,225		Frontier Wireless LLC	\$2,284,000	\$2,311,432
BEA060 BEA060	A E	12 6	433,250		King Street Wireless, L.P. Frontier Wireless LLC	\$6,831,000 \$532,000	\$6,913,043 \$538,390
BEA061		12	433,250 286,745	, ,		·	\$726,623
BEA061	A E	6	286,745		CenturyTel Broadband Wireless LLC Frontier Wireless LLC	\$718,000	\$646,675
BEA062	A	12				\$639,000 \$13,555,000	\$13,717,801
BEA062	E E	6	1,881,991		Cellco Partnership d/b/a Verizon Wireless Frontier Wireless LLC	\$13,555,000	\$3,131,160
			1,881,991			\$3,094,000	
BEA063	A	12	2,255,183		King Street Wireless, L.P.	\$17,760,000	\$17,973,304
BEA063	E	6	2,255,183		Frontier Wireless LLC	\$6,846,000	\$6,928,223
BEA064	A	12	10,328,854		Cellco Partnership d/b/a Verizon Wireless	\$152,532,000	\$154,363,966
BEA064	E	6	10,328,854		Frontier Wireless LLC	\$62,656,000	\$63,408,522
BEA065	A	12	936,245		King Street Wireless, L.P.	\$3,797,000	\$3,842,603
BEA065	E	6	936,245		Frontier Wireless LLC	\$754,000	\$763,056
BEA066	A	12	725,847		King Street Wireless, L.P.	\$2,306,000	\$2,333,696
BEA066	E	6	725,847		Frontier Wireless LLC	\$306,000	\$309,675
BEA067	A	12	3,066,469		Cellco Partnership d/b/a Verizon Wireless	\$31,858,000	\$32,240,626
BEA067	E	6	3,066,469		Frontier Wireless LLC	\$7,553,000	\$7,643,714
BEA068	A	12	630,898		King Street Wireless, L.P.	\$4,538,000	\$4,592,503
BEA068	E	6	630,898		Frontier Wireless LLC	\$1,742,000	\$1,762,922
BEA069	A	12	854,714		I-700, LLC	\$1,727,000	\$1,747,742
BEA069	E	6	854,714		Frontier Wireless LLC	\$619,000	\$626,434
BEA070	A	12	1,416,914	, ,	Cavalier Wireless, LLC	\$3,620,000	\$3,663,478
BEA070	E	6	1,416,914		Frontier Wireless LLC	\$2,258,000	\$2,285,119
BEA071	A	12	2,444,643		Cellular South Licenses, Inc.	\$49,201,000	\$49,791,922
BEA071	E	6	2,444,643		Frontier Wireless LLC	\$7,015,000	\$7,099,253
BEA072	A	12	226,586		I-700, LLC	\$441,000	\$446,297
BEA072	E	6	226,586		Frontier Wireless LLC	\$152,000	\$153,826
BEA073	A	12	1,882,332		Cellular South Licenses, Inc.	\$25,228,000	\$25,530,998
BEA073	E	6	1,882,332		Frontier Wireless LLC	\$6,507,000	\$6,585,151
BEA074	A	12	997,824		Cellular South Licenses, Inc.	\$15,851,000	\$16,041,376
BEA074	E	6	997,824		Frontier Wireless LLC	\$600,000	\$607,206
BEA075	A	12	625,002		Cellular South Licenses, Inc.	\$5,219,000	\$5,281,682
BEA075	E	6	625,002	, ,	Frontier Wireless LLC	\$422,000	\$427,068
BEA076	A	12	252,280	, ,	Cellular South Licenses, Inc.	\$1,971,000	\$1,994,672
BEA076	E	6	252,280		Frontier Wireless LLC	\$94,000	\$95,129
BEA077	A	12	1,432,518		Cellular South Licenses, Inc.	\$12,790,000	\$12,943,613
BEA077	E	6	1,432,518		Frontier Wireless LLC	\$1,405,000	\$1,421,875
BEA078	A	12	1,578,903		Cellular South Licenses, Inc.	\$15,856,000	\$16,046,436
BEA078	E	6	1,578,903		Frontier Wireless LLC	\$3,058,000	\$3,094,728
BEA079	A	12	481,137		Cellular South Licenses, Inc.	\$8,410,000	\$8,511,007
BEA079	Е	6	481,137		Frontier Wireless LLC	\$469,000	\$474,633
BEA080	A	12	676,258		Cellular South Licenses, Inc.	\$11,719,000	\$11,859,750
BEA080	E	6	676,258	, ,	Frontier Wireless LLC	\$744,000	\$752,936
BEA081	A	12	623,252	, ,	Cox Wireless, Inc.	\$19,427,000	\$19,660,325
BEA081	E	6	623,252		Frontier Wireless LLC	\$399,000	\$403,792
BEA082	A	12	396,754		Cellular South Licenses, Inc.	\$4,777,000	\$4,834,374
BEA082	Е	6	396,754		Frontier Wireless LLC	\$665,000	\$672,987
BEA083	A	12	1,725,338		Cox Wireless, Inc.	\$15,129,000	\$15,310,705
BEA083	E	6	1,725,338		Frontier Wireless LLC	\$2,380,000	\$2,408,585
BEA084	A	12	739,673		Cox Wireless, Inc.	\$9,517,000	\$9,631,303
BEA084	E	6	739,673		Frontier Wireless LLC	\$734,000	\$742,816
BEA085	A	12	601,654		CenturyTel Broadband Wireless LLC	\$10,614,000	\$10,741,478
BEA085	E	6 12	601,654		Frontier Wireless LLC	\$1,753,000	\$1,774,054
BEA086	A	12	536,758		CenturyTel Broadband Wireless LLC	\$3,533,000	\$3,575,433
BEA086	E	6 12	536,758		Frontier Wireless LLC	\$1,597,000	\$1,616,181
BEA087	A	12	456,637 456,637		Cavalier Wireless, LLC	\$1,167,000	\$1,181,016 \$465,525
BEA087	E	6 12	456,637 573,616		Frontier Wireless LLC	\$460,000	\$465,525 \$4,553,035
BEA088	A	12	573,616		CenturyTel Broadband Wireless LLC	\$4,499,000	\$4,553,035
BEA088	Е	6	573,616	3,441,096	Frontier Wireless LLC	\$2,499,000	\$2,529,014

License	
Bandwidth	

		License				****	
Monkot	Dlook	Bandwidth	Danulation	MIIa * Don	Winning Diddon	Winning Bid	Winning Bid
Market	Block	(MHz)	Population 222 510	MHz * Pop	Winning Bidder	(2008 USD)	(2008 CAD)
BEA089	A	12	333,519		CenturyTel Broadband Wireless LLC	\$1,091,000	\$1,104,103
BEA089	E	6	333,519		Frontier Wireless LLC	\$1,186,000	\$1,200,244
BEA090	A	12	1,614,850		CenturyTel Broadband Wireless LLC	\$11,309,000	\$11,444,825
BEA090	E	6	1,614,850		Frontier Wireless LLC	\$5,610,000	\$5,677,378
BEA091	A	12	329,136		CenturyTel Broadband Wireless LLC	\$6,277,000	\$6,352,389
BEA091	E	6	329,136		Frontier Wireless LLC	\$783,000	\$792,404
BEA092	A	12	405,160		Cox Wireless, Inc.	\$6,180,000	\$6,254,224
BEA092	E	6	405,160		Frontier Wireless LLC	\$749,000	\$757,996
BEA093	A	12	263,904		King Street Wireless, L.P.	\$560,000	\$566,726
BEA093	E	6	263,904		Frontier Wireless LLC	\$235,000	\$237,822
BEA094	A	12	859,559		CenturyTel Broadband Wireless LLC	\$21,928,000	\$22,191,363
BEA094	E	6	859,559		Frontier Wireless LLC	\$2,194,000	\$2,220,351
BEA095	A	12	303,852		CenturyTel Broadband Wireless LLC	\$504,000	\$510,053
BEA095	E	6	303,852		Frontier Wireless LLC	\$761,000	\$770,140
BEA096	A	12	3,558,651		King Street Wireless, L.P.	\$60,918,000	\$61,649,648
BEA096	E	6	3,558,651		Frontier Wireless LLC	\$9,162,000	\$9,272,039
BEA097	A	12	517,462		King Street Wireless, L.P.	\$3,213,000	\$3,251,589
BEA097	E	6	517,462		Frontier Wireless LLC	\$1,008,000	\$1,020,106
BEA098	A	12	369,014		CenturyTel Broadband Wireless LLC	\$10,034,000	\$10,154,512
BEA098	E	6	369,014		Frontier Wireless LLC	\$1,984,000	\$2,007,829
BEA099	A	12	2,469,340	29,632,080	Cellco Partnership d/b/a Verizon Wireless	\$21,282,000	\$21,537,605
BEA099	E	6	2,469,340	14,816,040	Frontier Wireless LLC	\$8,260,000	\$8,359,206
BEA100	A	12	1,683,257	20,199,084	King Street Wireless, L.P.	\$7,740,000	\$7,832,960
BEA100	E	6	1,683,257	10,099,542	Frontier Wireless LLC	\$3,788,000	\$3,833,495
BEA101	A	12	528,671	6,344,052	CenturyTel Broadband Wireless LLC	\$4,063,000	\$4,111,798
BEA101	E	6	528,671	3,172,026	Frontier Wireless LLC	\$1,256,000	\$1,271,085
BEA102	A	12	558,913	6,706,956	King Street Wireless, L.P.	\$1,887,000	\$1,909,664
BEA102	E	6	558,913	3,353,478	Frontier Wireless LLC	\$618,000	\$625,422
BEA103	A	12	384,577	4,614,924	Iowa Intelegra Consortium, LLC	\$1,124,000	\$1,137,500
BEA103	E	6	384,577	2,307,462	Frontier Wireless LLC	\$720,000	\$728,647
BEA104	A	12	933,823	11,205,876	King Street Wireless, L.P.	\$23,037,000	\$23,313,683
BEA104	E	6	933,823	5,602,938	Frontier Wireless LLC	\$1,334,000	\$1,350,022
BEA105	A	12	241,903	2,902,836	CenturyTel Broadband Wireless LLC	\$7,150,000	\$7,235,874
BEA105	E	6	241,903	1,451,418	Frontier Wireless LLC	\$1,199,000	\$1,213,400
BEA106	A	12	318,374	3,820,488	King Street Wireless, L.P.	\$1,545,000	\$1,563,556
BEA106	E	6	318,374	1,910,244	Frontier Wireless LLC	\$430,000	\$435,164
BEA107	A	12	4,498,286	53,979,432	Cellco Partnership d/b/a Verizon Wireless	\$51,087,000	\$51,700,574
BEA107	E	6	4,498,286	26,989,716	Frontier Wireless LLC	\$21,358,000	\$21,614,517
BEA108	A	12	487,723	5,852,676	King Street Wireless, L.P.	\$5,645,000	\$5,712,799
BEA108	E	6	487,723	2,926,338	Frontier Wireless LLC	\$355,000	\$359,264
BEA109	A	12	350,059	4,200,708	NSIGHTTEL WIRELESS, LLC	\$2,403,000	\$2,431,861
BEA109	E	6	350,059	2,100,354	Frontier Wireless LLC	\$379,000	\$383,552
BEA110	A	12	230,253	2,763,036	Kurian, Thomas K	\$472,000	\$477,669
BEA110	E	6	230,253	1,381,518	Frontier Wireless LLC	\$278,000	\$281,339
BEA111	A	12	111,195	1,334,340	LL License Holdings, LLC	\$318,000	\$321,819
BEA111	E	6	111,195	667,170	Frontier Wireless LLC	\$237,000	\$239,846
BEA112	A	12	175,427	2,105,124	LL License Holdings, LLC	\$758,000	\$767,104
BEA112	E	6	175,427	1,052,562	Frontier Wireless LLC	\$329,000	\$332,951
BEA113	A	12	371,691	4,460,292	Kurian, Thomas K	\$834,000	\$844,017
BEA113	E	6	371,691		Frontier Wireless LLC	\$433,000	\$438,200
BEA114	A	12	82,608		James Valley Cooperative Telephone Company	\$306,000	\$309,675
BEA114	E	6	82,608		Frontier Wireless LLC	\$199,000	\$201,390
BEA115	A	12	213,696		LL License Holdings, LLC	\$805,000	\$814,668
BEA115	E	6	213,696		Frontier Wireless LLC	\$387,000	\$391,648
BEA116	A	12	519,143		LL License Holdings, LLC	\$976,000	\$987,722
BEA116	E	6	519,143		Frontier Wireless LLC	\$482,000	\$487,789
BEA117	A	12	252,656		LL License Holdings, LLC	\$955,000	\$966,470
BEA117	E	6	252,656		Frontier Wireless LLC	\$450,000	\$455,405
BEA118	A	12	1,044,156		Cox Wireless, Inc.	\$5,698,000	\$5,766,435
<i>DL</i> /1110	. 1	12	1,077,130	12,527,012	Con Traceous, ne.	ΨΞ,ΟΣΟ,ΟΟΟ	Ψ3,700,τ33

License	
Bandwidth	

		License				****	****
Monkot	Dlook	Bandwidth	Danulation	MIIa * Don	Winning Diddon	Winning Bid	Winning Bid
Market	Block	(MHz)	Population	MHz * Pop	Winning Bidder	(2008 USD)	(2008 CAD)
BEA118	E	6	1,044,156	6,264,936 Frontier Wireless		\$1,133,000	\$1,146,608
BEA119 BEA119	A E	12 6	379,321 379,321	4,551,852 CenturyTel Broad 2,275,926 Frontier Wireless		\$1,608,000 \$421,000	\$1,627,313 \$426,056
BEA120		12	288,047	3,456,564 King Street Wirel		\$1,784,000	\$1,805,427
BEA120	A E	6	288,047	1,728,282 Frontier Wireless		\$1,784,000	\$213,534
BEA121	A	12	61,758	· · ·		\$102,000	
BEA121	E E	6	61,758	741,096 King Street Wirel 370,548 Frontier Wireless		\$61,000	\$103,225
BEA121	A	12		14,106,924 Cox Wireless, Inc		\$7,801,000	\$61,733 \$7,894,693
			1,175,577			\$890,000	
BEA122	E	6	1,175,577	7,053,462 Frontier Wireless 5,454,468 Cox Wireless, Inc			\$900,689
BEA123	A	12	454,539			\$1,748,000	\$1,768,994
BEA123 BEA124	E A	6 12	454,539 1,384,426	2,727,234 Frontier Wireless 16,613,112 Cox Wireless, Inc		\$303,000 \$15,618,000	\$306,639 \$15,805,578
BEA124	E E	6	1,384,426	8,306,556 Frontier Wireless		· · ·	\$1,617,193
BEA125		12	1,584,420	· · ·		\$1,598,000	
BEA125	A E	6	1,698,197	20,378,364 Cellco Partnershi 10,189,182 Frontier Wireless	_	\$12,177,000	\$12,323,250
BEA126		12	1,098,197	· · ·		\$5,434,000	\$5,499,264
BEA126	A E	6		1,677,132 Pioneer Telephon 838,566 Frontier Wireless	=	\$252,000	\$255,027 \$105,240
			139,761			\$104,000	\$105,249
BEA127	A	12	7,645,530	91,746,360 Cellco Partnershi	_	\$171,956,000	\$174,021,255
BEA127	E	6	7,645,530	45,873,180 Frontier Wireless		\$47,327,000	\$47,895,415
BEA128	A	12	222,147	2,665,764 Central Texas Te	_	\$927,000	\$938,134
BEA128	E	6	222,147	1,332,882 Frontier Wireless		\$234,000	\$236,810
BEA129	A	12	202,679	2,432,148 Central Texas Te	-	\$721,000	\$729,659
BEA129	E	6	202,679	1,216,074 Frontier Wireless		\$153,000	\$154,838
BEA130	A	12	1,349,267	16,191,204 Cellco Partnershi	=	\$17,370,000	\$17,578,620
BEA130	E	6	1,349,267	8,095,602 Frontier Wireless		\$2,720,000	\$2,752,668
BEA131	A	12	5,632,853	67,594,236 Cellco Partnershi	_	\$53,474,000	\$54,116,243
BEA131	E	6	5,632,853	33,797,118 Frontier Wireless		\$26,208,000	\$26,522,768
BEA132	A	12	549,012	6,588,144 Cavalier Wireless		\$829,000	\$838,957
BEA132 BEA133	E	6 12	549,012 978,369	3,294,072 Frontier Wireless 11,740,428 Cavalier Wireless		\$352,000	\$356,228 \$1,174,944
BEA133	A E	6	978,369	5,870,214 Frontier Wireless		\$1,161,000 \$575,000	
BEA134	A	12	2,141,060	· · ·		· ·	\$581,906
BEA134	E E	6	2,141,060	25,692,720 Cellco Partnershi 12,846,360 Frontier Wireless	_	\$23,043,000 \$6,690,000	\$23,319,755 \$6,770,349
BEA135		12	388,007	4,656,084 Miller, David	LLC		
BEA135	A E	6	388,007	2,328,042 Frontier Wireless	LLC	\$1,730,000 \$437,000	\$1,750,778 \$442,249
BEA136	A	12	190,340	2,328,042 Frontier wheless 2,284,080 PVT Networks, I		\$473,000	\$478,681
BEA136	E E	6	190,340	1,142,040 Frontier Wireless		\$286,000	\$289,435
BEA137		12	374,626	4,495,512 FCC	LLC	\$280,000	\$209,433
BEA137	A E	6	374,626	2,247,756 Frontier Wireless	LLC	\$425,000	\$430,104
BEA138	A	12	481,633	5,779,596 Miller, David	LLC	\$795,000	\$804,548
BEA138	E	6	481,633	2,889,798 Frontier Wireless	HC	\$292,000	\$295,507
BEA139	A	12	258,790	3,105,480 SAL Spectrum, I		\$1,036,000	\$1,048,443
BEA139	E	6	258,790	1,552,740 Frontier Wireless		\$400,000	\$404,804
BEA140	A	12	279,600	3,355,200 CenturyTel Broad		\$967,000	\$978,614
BEA140	E	6	279,600	1,677,600 Frontier Wireless		\$601,000	\$608,218
BEA141	A	12	3,984,105	47,809,260 Cellco Partnershi		\$38,056,000	\$38,513,067
BEA141	E	6	3,984,105	23,904,630 Frontier Wireless	_	\$23,096,000	\$23,373,392
BEA142	A	12	92,360		perative Telephone Company	\$282,000	\$285,387
BEA142	E	6	92,360	554,160 Frontier Wireless		\$150,000	\$151,802
BEA143	A	12	408,708	4,904,496 Union Telephone		\$3,797,000	\$3,842,603
BEA143	E	6	408,708	2,452,248 Frontier Wireless		\$494,000	\$499,933
BEA144	A	12	404,902	4,858,824 Bresnan Commun		\$1,457,000	\$1,474,499
BEA144	E	6	404,902	2,429,412 Frontier Wireless		\$190,000	\$192,282
BEA145	A	12	166,564	1,998,768 Bresnan Commun		\$317,000	\$320,807
BEA145	E	6	166,564	999,384 Frontier Wireless		\$51,000	\$51,613
BEA146	A	12	399,183	4,790,196 CenturyTel Broad		\$3,456,000	\$3,497,508
BEA146	E	6	399,183	2,395,098 Frontier Wireless		\$810,000	\$819,728
BEA147	A	12	829,735	9,956,820 Cavalier Wireless		\$4,445,000	\$4,498,386
BEA147	E	6	829,735	4,978,410 Frontier Wireless		\$1,048,000	\$1,060,587
		Ü	027,133	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Ψ1,0-10,000	\$1,000,507

		License Bandwidth				Winning Bid	Winning Bid
Market	Block	(MHz)	Population	MHz * Pop	Winning Bidder	(2008 USD)	(2008 CAD)
BEA148	A	12	306,120	3,673,440	Manti Telephone Company	\$1,086,000	\$1,099,043
BEA148	E	6	306,120	1,836,720	Frontier Wireless LLC	\$325,000	\$328,903
BEA149	A	12	162,397	1,948,764	Manti Telephone Company	\$374,000	\$378,492
BEA149	E	6	162,397	974,382	Frontier Wireless LLC	\$107,000	\$108,285
BEA150	Α	12	574,876	6,898,512	Continuum 700 LLC	\$3,268,000	\$3,307,250
BEA150	E	6	574,876		Frontier Wireless LLC	\$720,000	\$728,647
BEA151	A	12	670,013		Triad 700, LLC	\$2,802,000	\$2,835,653
BEA151	E	6	670,013		Frontier Wireless LLC	\$588,000	\$595,062
BEA152	Α	12	2,088,974		Continuum 700 LLC	\$15,824,000	\$16,014,052
BEA152	Е	6	2,088,974		Frontier Wireless LLC	\$5,461,000	\$5,526,589
BEA153	A	12	1,709,797		Cox Wireless, Inc.	\$30,974,000	\$31,346,009
BEA153	E	6	1,709,797		Frontier Wireless LLC	\$9,533,000	\$9,647,495
BEA154	A	12	401,766		SAL Spectrum, LLC	\$1,475,000	\$1,492,715
BEA154	E	6	401,766		Frontier Wireless LLC	\$162,000	\$163,946
BEA155	A	12	193,872		CenturyTel Broadband Wireless LLC	\$1,489,000	\$1,506,883
BEA155	E	6	193,872		Frontier Wireless LLC	\$168,000	\$170,018
BEA156	A	12	921,086		Continuum 700 LLC	\$4,538,000	\$4,592,503
BEA156	E	6	921,086		Frontier Wireless LLC	\$738,000	\$746,864
BEA157	A	12	955,602		Miller, David	\$4,073,000	\$4,121,918
BEA157 BEA158	E A	6 12	955,602		Frontier Wireless LLC	\$2,624,000 \$53,042,000	\$2,655,515
BEA158	E E	6	3,407,197 3,407,197		Cox Wireless, Inc. Frontier Wireless LLC	\$27,418,000	\$53,679,054
BEA159	A	12	999,882		Cox Wireless, Inc.	\$5,508,000	\$27,747,300 \$5,574,153
BEA159	E	6	999,882		Frontier Wireless LLC	\$1,950,000	\$1,973,420
BEA160	A	12	18,003,420		Cellco Partnership d/b/a Verizon Wireless	\$580,268,000	\$587,237,234
BEA160	E	6	18,003,420		QUALCOMM Incorporated	\$154,999,000	\$156,860,595
BEA161	A	12	2,813,833		Cox Wireless, Inc.	\$84,119,000	\$85,129,300
BEA161	E	6	2,813,833		Frontier Wireless LLC	\$14,469,000	\$14,642,778
BEA162	A	12	1,419,998		Cellco Partnership d/b/a Verizon Wireless	\$15,637,000	\$15,824,806
BEA162	Е	6	1,419,998		Frontier Wireless LLC	\$2,251,000	\$2,278,035
BEA163	A	12	9,111,806		Cellco Partnership d/b/a Verizon Wireless	\$103,697,000	\$104,942,439
BEA163	E	6	9,111,806	54,670,836	QUALCOMM Incorporated	\$81,613,000	\$82,593,202
BEA164	A	12	2,311,567	27,738,804	Cellco Partnership d/b/a Verizon Wireless	\$25,353,000	\$25,657,499
BEA164	E	6	2,311,567	13,869,402	Frontier Wireless LLC	\$4,406,000	\$4,458,918
BEA165	A	12	336,820	4,041,840	King Street Wireless, L.P.	\$1,144,000	\$1,157,740
BEA165	E	6	336,820	2,020,920	Frontier Wireless LLC	\$83,000	\$83,997
BEA166	A	12	791,776		King Street Wireless, L.P.	\$2,721,000	\$2,753,680
BEA166	E	6	791,776	4,750,656	Frontier Wireless LLC	\$657,000	\$664,891
BEA167	Α	12	2,883,737		Vulcan Spectrum LLC	\$43,603,000	\$44,126,688
BEA167	E	6	2,883,737		Frontier Wireless LLC	\$15,393,000	\$15,577,876
BEA168	A	12	200,681		CenturyTel Broadband Wireless LLC	\$730,000	\$738,768
BEA168	Е	6	200,681		Frontier Wireless LLC	\$101,000	\$102,213
BEA169	A	12	677,674		King Street Wireless, L.P.	\$2,393,000	\$2,421,741
BEA169	E	6	677,674		Frontier Wireless LLC	\$622,000	\$629,470
BEA170	A	12	4,135,291		Vulcan Spectrum LLC	\$69,190,000	\$70,020,998
BEA170	E	6	4,135,291		Frontier Wireless LLC	\$36,477,000	\$36,915,102
BEA171	A	12	626,932		Triad 700, LLC	\$1,315,000	\$1,330,794
BEA171	E	6	626,932		Frontier Wireless LLC	\$1,002,000	\$1,014,034
BEA172	A	12	1,211,537		Cavalier Wireless, LLC	\$3,728,000	\$3,772,775
BEA172 BEA173	E A	6 12	1,211,537 224,026		Frontier Wireless LLC PTI Pacifica, Inc.	\$1,088,000 \$1,293,000	\$1,101,067 \$1,308,529
BEA173	E	6	224,026		Kurian, Thomas K	\$173,000	\$1,308,329
BEA174	A	12	3,917,222		Puerto Rico Telephone Company, Inc.	\$19,904,000	\$20,143,054
BEA174 BEA174	E	6	3,917,222		Frontier Wireless LLC	\$10,068,000	\$10,188,920
BEA175	A	12	57,291		AST Telecom, LLC	\$20,000	\$20,240
BEA175	E	6	57,291		Club 42 CM Limited Partnership	\$17,000	\$17,204
BEA176	A	12	2.,271	2.3,710	CHEVRON USA INC.	\$771,000	\$780,260
BEA176	E	6			CHEVRON USA INC.	\$217,000	\$219,606
CMA001	В	12	16,134,166	193,609,992	AT&T Mobility Spectrum, LLC	\$884,703,000	\$895,328,611
-			, , , ,	, , –	J 1 " / "	, , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , ,	. , -,

License
Randwidth

Market Block William Population MLr Pop Winning Bilder Q008 (SD) CMA002 B 12 15,600.48 87.445.376 Celleo Faracachip d'as Verican Wireless \$182,781.00 501,800.00 518,779.370 CMA004 B 12 5,005.64 60.459.752.74 TeST Mobility Spectrum, LLC \$20.565.81,000 503,810.00 503,810.00 503,810.00 503,810.00 503,810.00 503,810.00 503,810.00 503,810.00 503,810.00 503,810.00 503,810.00 503,810.00 503,810.00 503,810.00 503,810.00 503,810.00 503,810.00 503,810.00 503,810.00 503,810.00 503,810.00 503,810.00 503,810.00 503,810.00 503,810.00 503,810.00 503,810.00 503,810.00 503,810.00 503,810.00 503,810.00 503,810.00 503,810.00 503,810.00 503,810.00 503,810.00 503,810.00 503,810.00 503,810.00 503,810.00 503,810.00 503,810.00 503,810.00 503,810.00 503,810.00 503,810.00 503,810.00 503,810.00 503,810.00 503,8			License					
CMA0012			Bandwidth				_	_
CMA003 B 12 80.917.20 97.100.60 Cellso Partnership drba Vertizon Wireless \$882,400,000 \$8018.18.055 CMA005 B 12 4.775.452 \$7.305.42 A TAET Mohilisy Spectrum, I.I.C 320,850.000 \$20,880.974 CMA007 B 12 4.127.411 3.433.23 CARE Mohilisy Spectrum, I.I.C 323,040.000 \$236,837.502 CMA008 B 12 4.128.268 \$10,918.09 A TAET Mohilisy Spectrum, I.I.C 313,162.000 \$236,647.000 \$235,475.002 CMA009 B 12 4.128.268 \$10,918.09 A TAET Mohilisy Spectrum, I.I.C \$131,125.000 \$152,609.860 CMA010 B 12 4.393.832 \$22,205.884 A TAET Mohilisy Spectrum, I.I.C \$134,600.000 \$102,209.816 CMA011 B 12 3.876.300 \$022,16.00 A TAET Mohilisy Spectrum, I.I.C \$132,600.000 \$235,095.417 CMA013 B 12 2.818.243 \$10,401.72 A TAET Mohilisy Spectrum, I.I.C \$160,800.000 \$160,800.000 \$160,800.000 \$160,800.000 \$160,800.000 \$160,880.200 \$172,809.416 \$160,800.000 <td< th=""><th></th><th></th><th></th><th>-</th><th></th><th></th><th>· · · · · · · · · · · · · · · · · · ·</th><th></th></td<>				-			· · · · · · · · · · · · · · · · · · ·	
CMA004 B 12 50,06-646 60,439,752 AT&T Mobelity Spectrum LLC \$365,65000 \$367,0562 \$205,889,970,562 CMA006 B 12 4,775,142 \$1,539,332 AT&T Mobelity Spectrum, ILC \$329,359,000 \$205,889,973 CMA007 B 12 4,122,740 4,142,146 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$20,000 \$2							· · ·	
CMA016 B 12 4,775,452 57,305,742 ATEX Mobility Spectrum ILC \$202,050,000 \$20,808,071 CMA017 B 12 4,127,100 49,481,880 ATEX Mobility Spectrum ILC \$230,467,000 \$23,457,202 CMA019 B 12 4,122,700 \$9,481,880 ATEX Mobility Spectrum ILC \$311,155,000 \$324,261,839 CMA010 B 12 5,120,721 61,448,625 ATEX Mobility Spectrum ILC \$194,900 \$234,261,839 CMA011 B 12 2,318,431 90,221,640 ATEX Mobility Spectrum ILC \$128,457,000 \$129,998,16 CMA013 B 12 2,318,343 30,316,100 ATEX Mobility Spectrum ILC \$128,457,000 \$129,998,16 CMA013 B 12 2,312,413 30,140,172 ATEX Mobility Spectrum ILC \$120,400,000 \$120,338,432 CMA013 B 12 2,312,413 30,140,172 ATEX Mobility Spectrum ILC \$160,800,000 \$160,800,000 \$160,800,000 \$160,800,000 \$160,800,000 \$172,809,400 \$172,809,400 \$172,809,400								
CMA007 B 12 4.127,110 \$15,433,23 A7RT Mobility Spectrum, LLC \$293,309,000 \$296,817,500 CMA008 B 12 4.182,598 \$91,918,890 A7RT Mobility Spectrum, LLC \$241,303,300 \$244,261,839 CMA010 B 12 4.182,598 \$31,218 Moral Mobility Spectrum, LLC \$131,2500 \$122,200 \$12,200 \$12,200 \$12,200 \$12,200 \$12,200 \$12,200 \$12,200 \$12,200 \$19,682,792 \$12,200 \$19,682,792 \$19,920 \$19,682,792 \$19,929,816 \$12,200 \$19,492,000 \$19,682,792 \$19,929,816 \$12,200 \$19,492,000 \$19,692,792 \$19,299,816 \$12,200 \$19,492,000 \$19,682,792 \$19,299,816 \$12,200 \$19,299,816 \$10,200 \$19,492,000 \$19,682,792 \$19,299,816 \$10,200,810 \$10,200,810 \$10,200,810 \$10,200,810 \$10,200,810 \$10,200,810 \$10,200,810 \$10,200,810 \$10,200,810 \$12,200,910 \$12,200,910 \$12,200,910 \$12,200,910 \$12,200,910 \$12,200,910 \$12,200,910 \$12,200,910 \$12,200,910 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>* *</td> <td></td> <td></td>						* *		
CMMO07 B 12 4.13,2740 49,948,880 ATRT Mohiliy Spectrum, LLC \$250,467,000 \$253,475,202 CMA009 B 12 5.120,721 61,486,652 ATRT Mohility Spectrum, LLC \$131,125,000 \$132,209,800 CMA010 B 12 5.218,470 \$0.221,610 ATRT Mohility Spectrum, LLC \$194,9200 \$196,827,921 CMA011 B 12 2.231,847 \$0.221,610 ATRT Mohility Spectrum, LLC \$124,877,000 \$129,998,147 CMA013 B 12 2.336,389 24,431,616 ATRT Mohility Spectrum, LLC \$120,900 \$121,992,931 CMA015 B 12 2.251,243 30,109,172 ATRT Mohility Spectrum, LLC \$166,880,000 \$168,882,291 CMA016 B 12 2.236,208 34,035,576 ATRT Mohility Spectrum, LLC \$166,880,000 \$168,882,291 CMA017 B 12 3,376,596 ATRT Mohility Spectrum, LLC \$156,880,000 \$163,882,291 CMA010 B 12 2,263,237 28,862,024 ATRT Mohility Spectrum, LLC \$172,470,000 \$251,071,072 \$281,171,988 CMA							· · ·	
CMA008 B 12							· · ·	
CMA010							· · ·	
CMA010 B 12 4,303,382 52,728,584 ATRET Mobility Spectrum, LLC \$194,492,000 \$196,692,292 CMA012 B 12 2,3876,380 45,16,560 Celleo Partnership Orba Verizon Wreless \$232,503,000 \$255,299,447 CMA013 B 12 2,3876,380 42,16,16,560 Celleo Partnership Orba Verizon Wreless \$232,503,000 \$255,295,447 CMA014 B 12 2,327,431 30,149,172 ATRET Mobility Spectrum, LLC \$102,629,000 \$12,693,235 CMA016 B 12 2,836,399 \$4,915,576 ATRET Mobility Spectrum, LLC \$56,687,200 \$57,589,600 CMA018 B 12 2,813,833 3,376,596 ATRET Mobility Spectrum, LLC \$176,977,000 \$179,102,559 CMA018 B 12 2,403,227 2,863,392 ATRET Mobility Spectrum, LLC \$176,977,000 \$579,102,559 CMA019 B 12 2,403,227 2,863,474,178 Mobility Spectrum, LLC \$176,977,000 \$179,102,559 CMA021 B 12 2,403,227 2,782,248 Mobility Spectrum, LLC \$176,977,000 \$217,001,105								
CMA011 B 12 2.518.479 302.21,640 AT&T Mobility Spectrum, LLC \$128.457,000 \$129.999.816 CMA013 B 12 2.035.968 24.431,616 AT&T Mobility Spectrum, LLC \$76.471,000 \$77.899.415 CMA014 B 12 2.035.968 24.431,616 AT&T Mobility Spectrum, LLC \$166.880.000 \$12.000 \$25.252.94.47 CMA015 B 12 2.836.298 34.055.756 AT&T Mobility Spectrum, LLC \$166.880.000 \$168.840.00 \$157.559.04 CMA016 B 12 1.803.479 2.236.1784 AT&T Mobility Spectrum, LLC \$166.880.00 \$551.771.988 CMA017 B 12 1.803.478 AT&T Mobility Spectrum, LLC \$166.880.00 \$551.771.988 CMA019 B 12 2.405.227 2.806.3284 AT&T Mobility Spectrum, LLC \$156.00 \$351.071.00 \$351.071.00 \$351.071.00 \$351.071.00 \$351.071.00 \$351.071.00 \$351.071.00 \$351.071.00 \$351.071.00 \$351.071.00 \$351.071.00 \$351.071.00 \$351.071.00 \$351.071.00 \$351.071.00 \$351.071.00 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>								
CMAD012 B 12 2.876.380 46.16.560 Celloo Pattership Orba Verizon Wireless \$232,509.000 \$235,209.447 CMAD014 B 12 2.015.088 24.431.616.04 EXET Mobility Spectrum, LLC \$100,249.000 \$121,693.245 CMAD16 B 12 2.816.038 34.903.576.04 EXET Mobility Spectrum, LLC \$166.880.000 \$168.884.291 CMAD16 B 12 1.863.349 23.61,748 ATET Mobility Spectrum, LLC \$56.872.000 \$57.555,682 CMAD18 B 12 2.813.833 33.765.996 ATET Mobility Spectrum, LLC \$167.6977.000 \$179.102.559 CMAD18 B 12 2.405.327 2.886.394 ATET Mobility Spectrum, LLC \$157.6977.000 \$579.102.559 CMAD20 B 12 2.405.327 2.886.394 ATET Mobility Spectrum, LLC \$111.116.000 \$112.625.258 CMAD23 B 12 1.503.443 18.66.6116 Celto Farrenship driva Verizon Wirelss \$53,120.00 \$522.178.160 CMAD23 B 12 1.627.081 18.724.278.478 Mobility Spectrum, LLC \$115.094.00 \$316.647.00 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
CMA013 B 12 2.05.5968 24.43.1616 ATRAT Mobility Spectrum, LLC \$76.471,000 \$77.389,445 CMA015 B 12 2.3816,248 30.195,172 ATRAT Mobility Spectrum, LLC \$166.880,000 \$168.884,201 CMA016 B 12 2.836,298 32.507,580,544 \$2.500,000 \$17.575,500 CMA017 B 12 2.836,298 2.236,1748 ATRAT Mobility Spectrum, LLC \$2.848,784,000 \$251,771,988 CMA019 B 12 2.243,188 2.2410,527 2.8863,924 ATRAT Mobility Spectrum, LLC \$216,679,700 \$251,771,988 CMA020 B 12 2.243,188 2.811,669 ATRAT Mobility Spectrum, LLC \$219,073,00 \$221,075,100 CMA021 B 12 2.243,188 2.241,781,110 \$21,122,300 \$21,175,111 \$21,175,111 \$21,175,111 \$21,175,111 \$21,175,111 \$21,175,111 \$21,175,111 \$21,175,111 \$21,175,111 \$21,175,111 \$21,175,111 \$21,175,111 \$21,175,111 \$21,175,111 \$21,175,111 \$21,175,111 \$21,175,111 \$21,175,111								
CMA014 B 12 2.512.411 30.149.172 ATRT Mobility Spectrum, LLC \$106,880.00 \$106,880.00 \$108,8834.29 CMA016 B 12 1.863.479 2.2361,748 ATRT Mobility Spectrum, LLC \$166,880.00 \$255,555.04 CMA017 B 12 1.863.479 2.2361,748 ATRT Mobility Spectrum, LLC \$248,878.00 \$251,779.88 CMA018 B 12 2.405.327 \$368,372.00 \$362,572.00 \$375,505.04 CMA019 B 12 2.405.327 \$368,372.40 ATRT Mobility Spectrum, LLC \$317,978.00 \$179,102.559 CMA021 B 12 2.405.327 \$368,078.24 ATRT Mobility Spectrum, LLC \$311,118.00 \$111,118.00 \$111,118.00 \$111,118.00 \$111,118.00 \$111,118.00 \$112,425.50 CMA022 B 12 1.250,074.11 ATRT Mobility Spectrum, LLC \$311,509,00 \$315,448.00 \$11,449.00 \$311,449.43 \$32,478.10 \$31,449.43 \$32,478.10 \$31,449.43 \$32,478.10 \$32,478.10 \$31,449.43 \$32,479.24 \$31,449.43 \$32,479.24 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
CMAD15 B 12 2,383,298 3,403,576 AT&T Mobility Spectrum, LLC \$166,880,000 \$86,872,000 \$87,575,054 CMAD17 B 12 1,371,198 \$23,517,198 \$21,71,198 \$21,717,198 \$21,717,198 \$21,717,198 \$21,717,198 \$21,717,198 \$21,717,198 \$21,717,198 \$21,717,198 \$21,717,198 \$21,717,198 \$21,717,198 \$21,717,198 \$21,717,198 \$21,717,198 \$21,717,198 \$21,718,198 \$21,719,198 \$21,719,198 \$21,719,100 \$21,719,100 \$21,719,100 \$21,719,100 \$21,719,100 \$21,719,100 \$21,719,100 \$21,719,100 \$21,719,100 \$21,719,100 \$21,719,100 \$21,719,100 \$21,719,100 \$21,719,100 \$21,719,100 \$21,719,100 \$21,719,100 \$21,719,100 \$21,719,100 \$21,719,100 \$21,719,100 \$21,719,100 \$21,719,100 \$21,719,100 \$21,719,100 \$21,719,100 \$21,719,100 \$21,719,100 \$21,719,100 \$21,719,100 \$21,719,100 \$21,719,100 \$21,719,100 \$21,719,100 \$21,719,100 \$21,719,100 \$21,719,100 \$21,711,100 \$21,719,100								
CMA016 B 12 1,863,479 22,361,748 ATRET Mobility Spectrum, LLC \$268,872,000 \$255,759,84 CMA018 B 12 2,815,833 33,765,996 ATRET Mobility Spectrum, LLC \$268,874,000 \$251,771,986 CMA019 B 12 2,818,833 33,765,996 ATRET Mobility Spectrum, LLC \$316,000 \$217,012,559 CMA020 B 12 2,418,833 23,765,996 ATRET Mobility Spectrum, LLC \$311,000 \$217,003,761 CMA021 B 12 1,500,741 810,008,892 ATRET Mobility Spectrum, LLC \$311,000 \$311,452,568 CMA023 B 12 1,553,843 81,646,116 Cellco Patraership driva Verizon Wireless \$351,000 \$353,541,804 CMA025 B 12 1,170,111 1,404,133 2,473,470,870 \$100,000 \$372,000 \$353,641,804 CMA026 B 12 1,701,11 1,404,133 2,474,100 \$222,469,000 \$353,666,00 \$353,641,804 CMA027 B 12 1,476,232 1,566,351,000 \$36,875,888 \$372,400,400								
CMA017 B 12 3,751,674 45,020,088 ATEAT Mobility Spectrum, I.I.C \$248,784,000 \$251,771,988 CMA018 B 12 2,813,833 33,755,996 ATEAT Mobility Spectrum, I.I.C \$376,977,000 \$251,701,108 CMA020 B 12 2,430,388 28,833,924 ATEAT Mobility Spectrum, I.I.C \$311,118,000 \$252,170,160 CMA022 B 12 2,243,038 28,816,696 ATEAT Mobility Spectrum, I.I.C \$111,118,000 \$114,625,588 CMA022 B 12 2,265,195 72,718,2340 ATEAT Mobility Spectrum, I.I.C \$111,108,000 \$115,694,000 \$35,482,000 \$35,482,000 \$35,482,000 \$35,482,000 \$35,482,000 \$35,482,000 \$32,482,000 \$35,482,000 \$35,482,000 \$35,482,000 \$33,543,000 \$35,482,000 \$35,482,000 \$35,482,000 \$35,482,000 \$35,482,000 \$35,482,000 \$32,482,000 \$32,282,482,000 \$32,283,000 \$32,282,482,000 \$32,283,000 \$32,282,482,000 \$32,283,282,000 \$32,283,282,282,282,282,282,282,282,282,2								
CMA018 B 12 2.813,833 33.765,996 ATRA T Mobility Spectrum, LLC \$156,682,000 \$565,320 \$565,320 \$565,320 \$565,320 \$565,320 \$565,320 \$565,320 \$565,320 \$565,320 \$565,320 \$565,320 \$565,320 \$565,320 \$565,320 \$565,320 \$565,320 \$565,320 \$565,320 \$565,320 \$566,320 \$566,320 \$566,320 \$566,320 \$566,320 \$566,320 \$566,320 \$566,320 \$566,320 \$566,320 \$566,320 \$566,320 \$566,320 \$566,320 \$566,320 \$566,320 \$566,320 \$566,320 \$566,320 \$566,320 \$566,320 \$566,320 \$566,320 \$566,320 \$566,320 \$566,320 \$566,320 \$566,320 \$566,320 \$566,320 \$566,320 \$566,320 \$566,320 \$566,320 \$566,320 \$566,320 \$566,320 \$566,320 \$566,320 \$566,320 \$566,320 \$566,320 \$566,320 \$566,320 \$566,320 \$566,320 \$566,320 \$566,320 \$566,320 \$566,320 \$566,320 \$566,32								
CMA0109 B 12 2,405,327 22,836,324 ATR T Mobility Spectrum, LLC \$55,682,000 \$56,350,761 CMA0201 B 12 2,436,058 28,116,069 ATT Mobility Spectrum, LLC \$111,100 \$112,452,568 CMA021 B 12 2,505,195 27,182,340 ATR T Mobility Spectrum, LLC \$111,100 \$112,452,568 CMA023 B 12 1,627,081 19,524,972 ATR T Mobility Spectrum, LLC \$315,000 \$35,548,000 \$35,548,000 \$35,548,000 \$37,087,523 CMA024 B 12 1,627,081 19,524,972 ATR T Mobility Spectrum, LLC \$10,460,000 \$10,586,552 \$27,087,523 CMA026 B 12 3,682,149 36,865,788 ATR T Mobility Spectrum, LLC \$222,649,000 \$225,233,907 \$22,226,4900 \$225,323,307 \$22,226,4900 \$225,323,307 \$23,487,000 \$227,888,000 \$268,613,81 \$22,226,4900 \$268,613,81 \$24,414,128 \$17,689,336 ATR T Mobility Spectrum, LLC \$36,605,826 \$468,138 \$22,226,4900 \$268,813,81								
CMA020							· · ·	
CMA0021 B 12 1,500,741 18,008,892 AT&T Mobility Spectrum LLC \$115,049,000 \$116,476,322 CMA023 B 12 1,553,843 18,646,116 Celleo Partnership d/ba Verizon Wireless \$35,120,000 \$315,41804 CMA024 B 12 1,627,081 19,524,972 AT&T Mobility Spectrum LLC \$10,461,000 \$10,586,640 CMA026 B 12 1,071,111 14,041,323 AT&T Mobility Spectrum LLC \$10,461,000 \$10,586,640 CMA026 B 12 1,072,149 36,865,788 AT&T Mobility Spectrum LLC \$10,736,000 \$223,323,097 CMA027 B 12 1,682,855 20,191,020 AT&T Mobility Spectrum LLC \$107,376,000 \$225,323,097 CMA027 B 12 1,682,855 20,191,020 AT&T Mobility Spectrum LLC \$107,376,000 \$225,323,097 CMA027 B 12 1,744,128 17,689,536 AT&T Mobility Spectrum LLC \$107,376,000 \$225,323,097 CMA029 B 12 1,744,128 17,689,536 AT&T Mobility Spectrum LLC \$66,058,000 \$66,851,341 CMA029 B 12 1,789,637 14,383,644 AT&T Mobility Spectrum LLC \$46,451,000 \$47,008,894 CMA031 B 12 1,789,466 16,735,992 AT&T Mobility Spectrum LLC \$46,451,000 \$47,008,894 CMA033 B 12 1,394,666 16,735,992 AT&T Mobility Spectrum LLC \$61,000 \$53,476,008 \$23,769,088 CMA032 B 12 1,484,818 13,783,416 AT&T Mobility Spectrum LLC \$61,620,000 \$55,573,537 CMA034 B 12 1,640,558 19,686,696 AT&T Mobility Spectrum LLC \$61,620,000 \$55,573,537 CMA034 B 12 1,640,558 19,686,696 AT&T Mobility Spectrum LLC \$61,620,000 \$53,996,481 CMA037 B 12 1,640,558 19,686,696 AT&T Mobility Spectrum LLC \$77,783,000 \$77,772,000 \$77,778,000 \$78,717,720 CMA036 B 12 1,640,558 19,686,696 AT&T Mobility Spectrum LLC \$44,040,000 \$34,996,481 CMA037 B 12 962,886 11,554,632 AT&T Mobility Spectrum LLC \$44,040,000 \$47,971,316 CMA038 B 12 962,886 11,554,632 AT&T Mobility Spectrum LLC \$44,040,000 \$47,971,316 CMA038 B 12 84,040 10,162,040 Mobility Spectrum LLC \$42,350,000 \$31,056,056 \$40,000 \$40,000 \$40								
CMA022 B 12 2,265,195 27,182,340 AT&T Mobility Spectrum, LLC \$115,094,000 \$16,476,322 CMA023 B 12 1,553,843 18,646,116 Celico Partnership dr/va Verizon Wireless \$35,120,000 \$335,548,04 CMA025 B 12 1,671,111 14,041,332 AT&T Mobility Spectrum, LLC \$10,461,000 \$10,586,640 CMA026 B 12 1,771,111 14,041,332 AT&T Mobility Spectrum, LLC \$22,240,000 \$22,323,007 CMA027 B 12 1,682,585 20,191,020 AT&T Mobility Spectrum, LLC \$107,376,000 \$108,665,626 CMA028 B 12 1,474,128 17,689,536 AT&T Mobility Spectrum, LLC \$46,651,000 \$47,008,804 CMA030 B 12 1,789,457 21,473,484 AT&T Mobility Spectrum, LLC \$46,651,000 \$47,008,804 CMA031 B 12 1,789,457 21,473,484 AT&T Mobility Spectrum, LLC \$46,451,000 \$47,008,804 CMA033 B 12 1,789,457 1,879,470 AT&T Mobility Spectrum, LLC \$54,914,000 \$55,753,537								
CMA023 B 12	CMA021			1,500,741		· ·	\$111,118,000	\$112,452,568
CMA024 B 12 1,677,081 19,524,972 AT&T Mobility Spectrum, LLC \$71,232,000 \$72,087,523 CMA026 B 12 1,170,111 14,041,332 AT&T Mobility Spectrum, LLC \$10,461,000 \$10,586,60 CMA027 B 12 1,682,585 20,191,020 AT&T Mobility Spectrum, LLC \$107,376,000 \$225,323,097 CMA028 B 12 1,682,585 20,191,020 AT&T Mobility Spectrum, LLC \$66,058,000 \$222,245 CMA029 B 12 1,198,637 14,383,644 AT&T Mobility Spectrum, LLC \$27,888,000 \$23,222,945 CMA030 B 12 1,789,457 21,473,484 AT&T Mobility Spectrum, LLC \$23,487,000 \$23,769,088 CMA031 B 12 1,394,666 16,735,992 AT&T Mobility Spectrum, LLC \$61,162,000 \$61,869,578 CMA033 B 12 1,486,18 13,783,416 AT&T Mobility Spectrum, LLC \$61,162,000 \$61,869,578 CMA032 B 12 1,486,18 13,783,216 AT&T Mobility Spectrum, LLC \$61,162,000 \$61,162,000 \$61,869,578	CMA022	В	12	2,265,195			\$115,094,000	\$116,476,322
CMA026 B 12 1,70,111 14,041,332 AT&T Mobility Spectrum, LLC \$10,646,000 \$10,586,640 CMA026 B 12 3,072,149 36,865,788 AT&T Mobility Spectrum, LLC \$107,376,000 \$225,323,097 CMA028 B 12 1,682,585 20,191,020 AT&T Mobility Spectrum, LLC \$66,085,000 \$66,851,381 CMA029 B 12 1,198,637 14,383,644 AT&T Mobility Spectrum, LLC \$27,888,000 \$28,222,490 CMA030 B 12 1,198,637 13,383,644 AT&T Mobility Spectrum, LLC \$24,6451,000 \$47,008,894 CMA031 B 12 1,194,606 16,735,992 AT&T Mobility Spectrum, LLC \$36,1162,000 \$61,896,578 CMA033 B 12 1,548,618 3,719,700 AT&T Mobility Spectrum, LLC \$54,914,000 \$55,733,537 CMA034 B 12 1,640,558 19,686,696 AT&T Mobility Spectrum, LLC \$77,783,000 \$77,773,000 \$78,717,203 CMA035 B 12 1,640,558	CMA023	В			18,646,116	Cellco Partnership d/b/a Verizon Wireless	\$35,120,000	\$35,541,804
CMA026 B 12 3.072,149 36.865,788 AT&T Mobility Spectrum, LLC \$222,649,000 \$225,323,007 CMA027 B 12 1.682,585 20,191,020 AT&T Mobility Spectrum, LLC \$66,058,000 \$66,858,000 \$66,858,000 \$66,858,000 \$66,058,000 \$66,058,000 \$66,858,000 \$68,851,381 CMA030 B 12 1.798,457 21,473,484 AT&T Mobility Spectrum, LLC \$46,451,000 \$47,008,894 CMA031 B 12 1.789,457 21,473,484 AT&T Mobility Spectrum, LLC \$61,612,000 \$61,896,578 CMA032 B 12 1.148,618 13,783,416 AT&T Mobility Spectrum, LLC \$64,910,00 \$55,733,577 CMA034 B 12 1.049,588 19,686,696 AT&T Mobility Spectrum, LLC \$77,783,000 \$78,717,203 CMA035 B 12 1.640,558 19,686,696 AT&T Mobility Spectrum, LLC \$77,783,000 \$78,717,203 CMA037 B 12 1.640,558 19,686,696 AT&T Mobility Spectrum, LLC \$17,4	CMA024	В	12				\$71,232,000	\$72,087,523
CMA027 B 12 1.682,585 20,191,020 AT&T Mobility Spectrum, LLC \$107,376,000 \$108,665,526 CMA028 B 12 1.474,128 17.689,536 AT&T Mobility Spectrum, LLC \$27,888,000 \$266,058,000 \$66,658,381 CMA030 B 12 1.789,457 14,383,644 AT&T Mobility Spectrum, LLC \$346,451,000 \$47,008,894 CMA031 B 12 1.394,666 16,735,992 AT&T Mobility Spectrum, LLC \$32,487,000 \$23,789,088 CMA032 B 12 1.194,661 16,735,992 AT&T Mobility Spectrum, LLC \$561,162,000 \$61,896,578 CMA033 B 12 1.599,975 18,719,700 AT&T Mobility Spectrum, LLC \$54,914,000 \$55,573,537 CMA034 B 12 1.603,7831 12,433,972 Celloo Patrenship drba Verizon Wireless \$19,135,000 \$37,717,203 CMA035 B 12 1,640,558 19,686,696 AT&T Mobility Spectrum, LLC \$37,783,000 \$32,991,634 CMA036 B 12 1,640,558 19,686,696 AT&T Mobility Spectrum, LLC \$34,060,000 \$34,755,506	CMA025	В		1,170,111	14,041,332	AT&T Mobility Spectrum, LLC	\$10,461,000	\$10,586,640
CMA028 B 12 1,474,128 17,689,536 AT&T Mobility Spectrum, LLC \$66,058,000 \$66,851,281 CMA029 B 12 1,198,637 14,383,644 AT&T Mobility Spectrum, LLC \$27,888,000 \$22,229,255 CMA030 B 12 1,394,666 16,735,992 AT&T Mobility Spectrum, LLC \$36,451,000 \$23,487,000 \$23,487,000 \$23,487,000 \$23,487,000 \$23,487,000 \$23,487,000 \$23,487,000 \$23,487,000 \$23,487,000 \$23,487,000 \$23,489,088,470 \$23,489,000 \$23,789,088 CMA032 B 12 1,148,618 13,783,416 AT&T Mobility Spectrum, LLC \$54,914,000 \$55,573,537 CMA034 B 12 1,037,831 12,433,972 Cellco Partnership drba Verizon Wireless \$19,135,000 \$19,364,818 CMA035 B 12 1,606,558 19,686,696 AT&T Mobility Spectrum, LLC \$77,783,000 \$78,717,203 CMA036 B 12 1,600,558 13,281,696 Cellco Partnership drba Verizon Wireless \$32,080,000 \$32,999,634 CMA037 B 12 968,313	CMA026	В		3,072,149	36,865,788	AT&T Mobility Spectrum, LLC	\$222,649,000	\$225,323,097
CMA029 B 12 1,198,637 14,383,644 AT&T Mobility Spectrum, LLC \$27,888,000 \$28,222,945 CMA030 B 12 1,789,457 21,473,484 AT&T Mobility Spectrum, LLC \$46,451,000 \$47,008,894 CMA031 B 12 1,394,666 16,735,992 AT&T Mobility Spectrum, LLC \$61,162,000 \$61,896,578 CMA033 B 12 1,148,618 13,783,416 AT&T Mobility Spectrum, LLC \$54,914,000 \$55,573,537 CMA034 B 12 1,037,831 12,4453,972 Cellco Partnership drba Verizon Wireless \$191,35,000 \$19,364,818 CMA035 B 12 1,640,558 19,686,696 AT&T Mobility Spectrum, LLC \$77,783,000 \$78,717,203 CMA036 B 12 1,640,558 19,686,696 AT&T Mobility Spectrum, LLC \$34,965,000 \$32,999,634 CMA036 B 12 1,640,558 11,618,696 Cellco Partnership drba Verizon Wireless \$32,008,000 \$32,999,634 CMA037 B 12 1,640,558 11,619,756 AT&T Mobility Spectrum, LLC \$34,7402,000 \$47,971,316	CMA027	В		1,682,585	20,191,020	AT&T Mobility Spectrum, LLC	\$107,376,000	\$108,665,626
CMA030 B 12 1,789,457 21,473,484 AT&T Mobility Spectrum, LLC \$46,451,000 \$47,008,894 CMA031 B 12 1,384,666 16,735,992 AT&T Mobility Spectrum, LLC \$61,162,000 \$23,487,000 \$23,769,088 CMA032 B 12 1,148,618 13,783,416 AT&T Mobility Spectrum, LLC \$54,914,000 \$55,573,537 CMA033 B 12 1,599,975 18,719,700 AT&T Mobility Spectrum, LLC \$54,914,000 \$55,573,537 CMA034 B 12 1,640,558 19,686,696 AT&T Mobility Spectrum, LLC \$77,783,000 \$78,717,236 CMA036 B 12 1,640,558 13,281,696 Cellco Partnership drba Verizon Wireless \$32,608,000 \$32,996,634 CMA037 B 12 968,313 11,619,756 AT&T Mobility Spectrum, LLC \$34,096,000 \$34,505,506 CMA039 B 12 962,886 11,554,632 AT&T Mobility Spectrum, LLC \$14,470,000 \$47,971,316 CMA0401 B 12 848,153 10,717,336 AT&T Mobility Spectrum, LLC \$25,042,000 \$25,542,264	CMA028	В		1,474,128	17,689,536	AT&T Mobility Spectrum, LLC	\$66,058,000	\$66,851,381
CMA031 B 12 1,344,666 16,735,992 AT&T Mobility Spectrum, LLC \$23,487,000 \$23,769,088 CMA032 B 12 1,148,618 13,783,416 AT&T Mobility Spectrum, LLC \$61,162,000 \$61,896,578 CMA033 B 12 1,559,975 18,719,700 AT&T Mobility Spectrum, LLC \$54,914,000 \$55,573,537 CMA034 B 12 1,037,831 12,453,972 Cellco Partnership d/b/a Verizon Wireless \$19,35,000 \$78,717,203 CMA035 B 12 1,106,808 13,281,1696 Cellco Partnership d/b/a Verizon Wireless \$32,608,000 \$32,999,634 CMA037 B 12 968,313 11,619,756 AT&T Mobility Spectrum, LLC \$34,096,000 \$34,505,506 CMA038 B 12 962,886 11,554,632 AT&T Mobility Spectrum, LLC \$47,402,000 \$47,971,316 CMA040 B 12 848,153 10,177,836 AT&T Mobility Spectrum, LLC \$14,147,000 \$14,316,911 CMA041 B 12 82,2567 10,590,804	CMA029			1,198,637	14,383,644	AT&T Mobility Spectrum, LLC	\$27,888,000	\$28,222,945
CMA032 B 12 1,148,618 13,783,416 AT&T Mobility Spectrum, LLC \$61,162,000 \$61,896,578 CMA033 B 12 1,559,975 18,719,700 AT&T Mobility Spectrum, LLC \$54,914,000 \$55,573,537 CMA034 B 12 1,037,831 12,453,972 Cellco Partnership d/b'a Verizon Wireless \$19,135,000 \$19,364,818 CMA036 B 12 1,640,558 19,686,696 AT&T Mobility Spectrum, LLC \$77,783,000 \$78,717,203 CMA036 B 12 1,640,558 13,686,696 AT&T Mobility Spectrum, LLC \$34,096,000 \$32,999,634 CMA037 B 12 968,813 11,619,756 AT&T Mobility Spectrum, LLC \$47,402,000 \$47,971,316 CMA039 B 12 1,374,649 16,495,788 AT&T Mobility Spectrum, LLC \$55,556,000 \$56,223,248 CMA040 B 12 848,153 10,177,836 AT&T Mobility Spectrum, LLC \$25,042,000 \$25,342,000 \$25,342,000 \$25,342,000 \$25,342,000 \$25,342,000 \$25,342,000 \$25,342,000 \$25,426,00 \$25,042,000 \$25,482,000	CMA030	В		1,789,457	21,473,484	AT&T Mobility Spectrum, LLC	\$46,451,000	\$47,008,894
CMA033 B 12 1,559,975 18,719,700 AT&T Mobility Spectrum, LLC \$54,914,000 \$55,573,537 CMA034 B 12 1,037,831 12,2453,972 Cellco Partnership d/b'a Verizon Wireless \$19,135,000 \$19,364,818 CMA035 B 12 1,640,558 19,686,696 AT&T Mobility Spectrum, LLC \$77,783,000 \$78,717,203 CMA036 B 12 1,106,808 13,281,696 Cellco Partnership d/b'a Verizon Wireless \$32,608,000 \$34,905,506 CMA037 B 12 962,886 11,554,632 AT&T Mobility Spectrum, LLC \$47,402,000 \$47,913,16 CMA038 B 12 19,374,649 16,495,788 AT&T Mobility Spectrum, LLC \$55,556,000 \$56,223,248 CMA040 B 12 848,153 10,177,836 AT&T Mobility Spectrum, LLC \$14,147,000 \$14,316,911 CMA041 B 12 882,567 10,590,804 AT&T Mobility Spectrum, LLC \$34,837,000 \$35,255,405 CMA043 B 12 10,41,276 12,495,312 AT&T Mobility Spectrum, LLC \$10,925,000 \$42,860,632	CMA031	В			16,735,992	AT&T Mobility Spectrum, LLC	\$23,487,000	\$23,769,088
CMA034 B 12 1,037,831 12,453,972 Cellco Partnership d/b/a Verizon Wireless \$19,135,000 \$19,364,818 CMA035 B 12 1,640,558 19,686,696 AR&T Mobility Spectrum, LLC \$77,783,000 \$78,717,203 CMA036 B 12 1,106,808 13,281,696 Cellco Partnership d/b/a Verizon Wireless \$32,608,000 \$32,999,634 CMA037 B 12 968,313 11,619,756 AT&T Mobility Spectrum, LLC \$34,096,000 \$34,505,506 CMA038 B 12 962,886 11,554,632 AT&T Mobility Spectrum, LLC \$47,402,000 \$47,971,316 CMA040 B 12 1,374,649 16,495,788 AT&T Mobility Spectrum, LLC \$55,556,000 \$56,223,248 CMA040 B 12 848,153 10,177,836 AT&T Mobility Spectrum, LLC \$25,042,000 \$25,342,764 CMA041 B 12 940,795 11,289,540 AT&T Mobility Spectrum, LLC \$34,837,000 \$33,255,405 CMA043 B 12 882,567 10,590,84 AT&T Mobility Spectrum, LLC \$42,352,000 \$42,860,663 <th< td=""><td>CMA032</td><td>В</td><td></td><td>1,148,618</td><td>13,783,416</td><td>AT&T Mobility Spectrum, LLC</td><td>\$61,162,000</td><td>\$61,896,578</td></th<>	CMA032	В		1,148,618	13,783,416	AT&T Mobility Spectrum, LLC	\$61,162,000	\$61,896,578
CMA035 B 12 1,640,558 19,686,696 AT&T Mobility Spectrum, LLC \$77,783,000 \$78,717,203 CMA036 B 12 1,106,808 13,281,696 Cellco Partnership d/b/a Verizon Wireless \$32,608,000 \$32,999,634 CMA037 B 12 968,313 11,619,756 AT&T Mobility Spectrum, LLC \$34,096,000 \$34,505,506 CMA038 B 12 962,886 11,554,632 AT&T Mobility Spectrum, LLC \$47,402,000 \$47,971,316 CMA040 B 12 1,374,649 16,495,788 AT&T Mobility Spectrum, LLC \$55,556,000 \$56,223,248 CMA040 B 12 848,153 10,177,836 AT&T Mobility Spectrum, LLC \$25,042,000 \$25,342,764 CMA041 B 12 940,795 11,289,540 AT&T Mobility Spectrum, LLC \$34,387,000 \$35,255,405 CMA042 B 12 882,567 10,590,804 AT&T Mobility Spectrum, LLC \$42,352,000 \$35,255,405 CMA044 B 12 844,001 10,128,012 AT&T Mobility Spectrum, LLC \$10,925,000 \$11,056,213 CMA045	CMA033	В		1,559,975			\$54,914,000	\$55,573,537
CMA036 B 12 1,106,808 13,281,696 Cellco Partnership d/b/a Verizon Wireless \$32,608,000 \$32,999,634 CMA037 B 12 968,313 11,619,756 AT&T Mobility Spectrum, LLC \$34,006,000 \$34,505,506 CMA038 B 12 962,886 11,554,632 AT&T Mobility Spectrum, LLC \$55,556,000 \$56,223,248 CMA040 B 12 848,153 10,177,836 AT&T Mobility Spectrum, LLC \$25,042,000 \$55,324,764 CMA041 B 12 940,795 11,289,540 AT&T Mobility Spectrum, LLC \$25,042,000 \$25,342,764 CMA042 B 12 882,567 10,590,804 AT&T Mobility Spectrum, LLC \$34,837,000 \$35,255,405 CMA043 B 12 1,041,276 12,495,312 AT&T Mobility Spectrum, LLC \$42,352,000 \$42,860,663 CMA044 B 12 1,041,276 12,495,312 AT&T Mobility Spectrum, LLC \$10,925,000 \$11,056,213 CMA045 B 12 1,049,422 12,593,06	CMA034	В	12	1,037,831		-	\$19,135,000	\$19,364,818
CMA037 B 12 968,313 11,619,756 AT&T Mobility Spectrum, LLC \$34,096,000 \$34,505,506 CMA038 B 12 962,886 11,554,632 AT&T Mobility Spectrum, LLC \$47,402,000 \$47,971,316 CMA039 B 12 1,374,649 16,495,788 AT&T Mobility Spectrum, LLC \$55,556,000 \$56,223,248 CMA040 B 12 848,153 10,177,836 AT&T Mobility Spectrum, LLC \$14,147,000 \$14,316,911 CMA041 B 12 940,795 11,289,540 AT&T Mobility Spectrum, LLC \$25,042,000 \$25,342,764 CMA042 B 12 882,567 10,590,804 AT&T Mobility Spectrum, LLC \$34,837,000 \$35,255,405 CMA043 B 12 1,041,276 12,495,312 AT&T Mobility Spectrum, LLC \$42,352,000 \$42,860,663 CMA044 B 12 1,049,422 12,593,064 Cellco Partnership d/ba Verizon Wireless \$92,226,000 \$93,333,668 CMA045 B 12 1,085,874 13,030,488 Cellco Partnership d/ba Verizon Wireless \$57,465,000 \$58,155,176	CMA035	В	12	1,640,558			\$77,783,000	\$78,717,203
CMA038 B 12 962,886 11,554,632 AT&T Mobility Spectrum, LLC \$47,402,000 \$47,971,316 CMA039 B 12 1,374,649 16,495,788 AT&T Mobility Spectrum, LLC \$55,556,000 \$56,223,248 CMA040 B 12 848,153 10,177,836 AT&T Mobility Spectrum, LLC \$14,147,000 \$14,316,911 CMA041 B 12 940,795 11,289,540 AT&T Mobility Spectrum, LLC \$25,042,000 \$25,342,764 CMA042 B 12 882,567 10,590,804 AT&T Mobility Spectrum, LLC \$34,837,000 \$35,255,405 CMA043 B 12 1,041,276 12,495,312 AT&T Mobility Spectrum, LLC \$42,352,000 \$42,860,663 CMA044 B 12 1,049,422 12,593,064 Cellco Partnership d/b/a Verizon Wireless \$92,226,000 \$93,333,668 CMA046 B 12 1,049,422 12,593,064 Cellco Partnership d/b/a Verizon Wireless \$57,465,000 \$66,052,905 CMA047 B 12 805,331	CMA036			1,106,808	13,281,696	Cellco Partnership d/b/a Verizon Wireless	\$32,608,000	\$32,999,634
CMA039 B 12 1,374,649 16,495,788 AT&T Mobility Spectrum, LLC \$55,556,000 \$56,223,248 CMA040 B 12 848,153 10,177,836 AT&T Mobility Spectrum, LLC \$14,147,000 \$14,316,911 CMA041 B 12 940,795 11,289,540 AT&T Mobility Spectrum, LLC \$25,042,000 \$25,342,764 CMA042 B 12 882,567 10,590,804 AT&T Mobility Spectrum, LLC \$34,837,000 \$35,255,405 CMA043 B 12 1,041,276 12,495,312 AT&T Mobility Spectrum, LLC \$42,352,000 \$42,860,663 CMA044 B 12 1,041,276 12,2495,312 AT&T Mobility Spectrum, LLC \$10,925,000 \$11,056,213 CMA045 B 12 1,049,422 12,593,064 Cellco Partnership d/b/a Verizon Wireless \$92,226,000 \$93,333,668 CMA046 B 12 1,085,874 13,030,488 Cellco Partnership d/b/a Verizon Wireless \$57,465,000 \$56,269,000 \$66,52,995 CMA047 B 12 805,133 9,661,596 AT&T Mobility Spectrum, LLC \$11,657,000 \$11,797,005	CMA037	В		968,313	11,619,756	AT&T Mobility Spectrum, LLC	\$34,096,000	\$34,505,506
CMA040 B 12 848,153 10,177,836 AT&T Mobility Spectrum, LLC \$14,147,000 \$14,316,911 CMA041 B 12 940,795 11,289,540 AT&T Mobility Spectrum, LLC \$25,042,000 \$25,342,764 CMA042 B 12 882,567 10,599,804 AT&T Mobility Spectrum, LLC \$34,837,000 \$35,255,405 CMA043 B 12 1,041,276 12,495,312 AT&T Mobility Spectrum, LLC \$42,352,000 \$42,860,663 CMA044 B 12 844,001 10,128,012 AT&T Mobility Spectrum, LLC \$10,925,000 \$11,056,213 CMA045 B 12 1,049,422 12,593,064 Cellco Partnership d/b/a Verizon Wireless \$92,226,000 \$93,333,668 CMA046 B 12 1,085,874 13,030,488 Cellco Partnership d/b/a Verizon Wireless \$57,465,000 \$58,155,176 CMA048 B 12 805,133 9,661,596 AT&T Mobility Spectrum, LLC \$11,657,000 \$11,797,005 CMA049 B 12 876,156 10,513,872 AT&T Mobility Spectrum, LLC \$29,490,000 \$29,844,186 C	CMA038	В	12	,	11,554,632	AT&T Mobility Spectrum, LLC	\$47,402,000	\$47,971,316
CMA041 B 12 940,795 11,289,540 AT&T Mobility Spectrum, LLC \$25,042,000 \$25,342,764 CMA042 B 12 882,567 10,590,804 AT&T Mobility Spectrum, LLC \$34,837,000 \$35,255,405 CMA043 B 12 1,041,276 12,495,312 AT&T Mobility Spectrum, LLC \$42,352,000 \$42,860,663 CMA044 B 12 1,049,422 11,281,012 AT&T Mobility Spectrum, LLC \$10,925,000 \$11,056,213 CMA045 B 12 1,049,422 12,597,6742 AT&T Mobility Spectrum, LLC \$65,269,000 \$93,333,668 CMA046 B 12 1,231,311 14,775,732 AT&T Mobility Spectrum, LLC \$65,269,000 \$56,269,000 \$66,052,905 CMA047 B 12 1,085,874 13,030,488 Cellco Partnership d/b/a Verizon Wireless \$57,465,000 \$58,155,176 CMA048 B 12 805,133 9,661,596 AT&T Mobility Spectrum, LLC \$11,657,000 \$11,797,005 CMA050 B 12 876,156 10,513,872 AT&T Mobility Spectrum, LLC \$11,916,000 \$12,059,116	CMA039	В		1,374,649			\$55,556,000	\$56,223,248
CMA042 B 12 882,567 10,590,804 AT&T Mobility Spectrum, LLC \$34,837,000 \$35,255,405 CMA043 B 12 1,041,276 12,495,312 AT&T Mobility Spectrum, LLC \$42,352,000 \$42,860,663 CMA044 B 12 844,001 10,128,012 AT&T Mobility Spectrum, LLC \$10,925,000 \$11,056,213 CMA045 B 12 1,049,422 12,593,064 Cellco Partnership d/b/a Verizon Wireless \$92,226,000 \$93,333,668 CMA046 B 12 1,231,311 14,775,732 AT&T Mobility Spectrum, LLC \$66,052,090 \$66,052,905 CMA047 B 12 1,085,874 13,030,488 Cellco Partnership d/b/a Verizon Wireless \$57,465,000 \$58,155,176 CMA048 B 12 805,133 9,661,596 AT&T Mobility Spectrum, LLC \$11,657,000 \$11,797,005 CMA049 B 12 824,008 9,888,096 AT&T Mobility Spectrum, LLC \$29,490,000 \$29,844,186 CMA051 B 12 876,156 10,513,872 AT&T Mobility Spectrum, LLC \$30,733,000 \$31,102,115	CMA040	В					\$14,147,000	\$14,316,911
CMA043 B 12 1,041,276 12,495,312 AT&T Mobility Spectrum, LLC \$42,352,000 \$42,860,663 CMA044 B 12 844,001 10,128,012 AT&T Mobility Spectrum, LLC \$10,925,000 \$11,056,213 CMA045 B 12 1,049,422 12,593,064 Cellco Partnership d/b/a Verizon Wireless \$92,226,000 \$93,333,668 CMA046 B 12 1,085,874 13,030,488 Cellco Partnership d/b/a Verizon Wireless \$57,465,000 \$58,155,176 CMA047 B 12 805,133 9,661,596 AT&T Mobility Spectrum, LLC \$11,657,000 \$11,797,005 CMA048 B 12 824,008 9,888,096 AT&T Mobility Spectrum, LLC \$29,490,000 \$29,844,186 CMA050 B 12 876,156 10,513,872 AT&T Mobility Spectrum, LLC \$30,733,000 \$11,091,600 \$12,059,116 CMA051 B 12 1,122,750 13,473,000 AT&T Mobility Spectrum, LLC \$30,733,000 \$31,002,115 CMA052 B 12 694,960 8,339,520 AT&T Mobility Spectrum, LLC \$10,736,000 \$10,864,943	CMA041	В		940,795			\$25,042,000	\$25,342,764
CMA044 B 12 844,001 10,128,012 AT&T Mobility Spectrum, LLC \$10,925,000 \$11,056,213 CMA045 B 12 1,049,422 12,593,064 Cellco Partnership d/b/a Verizon Wireless \$92,226,000 \$93,333,668 CMA046 B 12 1,231,311 14,775,732 AT&T Mobility Spectrum, LLC \$65,269,000 \$66,052,905 CMA047 B 12 1,085,874 13,030,488 Cellco Partnership d/b/a Verizon Wireless \$57,465,000 \$58,155,176 CMA048 B 12 805,133 9,661,596 AT&T Mobility Spectrum, LLC \$11,657,000 \$11,797,005 CMA049 B 12 824,008 9,888,096 AT&T Mobility Spectrum, LLC \$29,490,000 \$29,844,186 CMA050 B 12 876,156 10,513,872 AT&T Mobility Spectrum, LLC \$11,916,000 \$12,059,116 CMA051 B 12 1,122,750 13,473,000 AT&T Mobility Spectrum, LLC \$30,733,000 \$31,102,115 CMA052 B 12 694,960 8,339,520 AT&T Mobility Spectrum, LLC \$10,736,000 \$12,546,905 C	CMA042	В		882,567			\$34,837,000	\$35,255,405
CMA045 B 12 1,049,422 12,593,064 Cellco Partnership d/b/a Verizon Wireless \$92,226,000 \$93,333,668 CMA046 B 12 1,231,311 14,775,732 AT&T Mobility Spectrum, LLC \$65,269,000 \$66,052,905 CMA047 B 12 1,085,874 13,030,488 Cellco Partnership d/b/a Verizon Wireless \$57,465,000 \$58,155,176 CMA048 B 12 805,133 9,661,596 AT&T Mobility Spectrum, LLC \$11,657,000 \$11,797,005 CMA049 B 12 824,008 9,888,096 AT&T Mobility Spectrum, LLC \$29,490,000 \$29,844,186 CMA050 B 12 876,156 10,513,872 AT&T Mobility Spectrum, LLC \$11,916,000 \$12,059,116 CMA051 B 12 1,122,750 13,473,000 AT&T Mobility Spectrum, LLC \$30,733,000 \$31,102,115 CMA052 B 12 694,960 8,339,520 AT&T Mobility Spectrum, LLC \$12,398,000 \$12,546,905 CMA053 B 12 650,154 7,801,848 AT&T Mobility Spectrum, LLC \$7,020,000 \$7,104,313 CMA0		В		1,041,276			\$42,352,000	\$42,860,663
CMA046 B 12 1,231,311 14,775,732 AT&T Mobility Spectrum, LLC \$65,269,000 \$66,052,905 CMA047 B 12 1,085,874 13,030,488 Cellco Partnership d/b/a Verizon Wireless \$57,465,000 \$58,155,176 CMA048 B 12 805,133 9,661,596 AT&T Mobility Spectrum, LLC \$11,657,000 \$11,797,005 CMA049 B 12 824,008 9,888,096 AT&T Mobility Spectrum, LLC \$29,490,000 \$29,844,186 CMA050 B 12 876,156 10,513,872 AT&T Mobility Spectrum, LLC \$11,916,000 \$12,059,116 CMA051 B 12 1,122,750 13,473,000 AT&T Mobility Spectrum, LLC \$30,733,000 \$31,102,115 CMA052 B 12 694,960 8,339,520 AT&T Mobility Spectrum, LLC \$10,736,000 \$12,546,905 CMA053 B 12 650,154 7,801,848 AT&T Mobility Spectrum, LLC \$10,736,000 \$7,104,313 CMA055 B 12 631,362 7,576,344	CMA044	В		844,001			\$10,925,000	\$11,056,213
CMA047 B 12 1,085,874 13,030,488 Cellco Partnership d/b/a Verizon Wireless \$57,465,000 \$58,155,176 CMA048 B 12 805,133 9,661,596 AT&T Mobility Spectrum, LLC \$11,657,000 \$11,797,005 CMA049 B 12 824,008 9,888,096 AT&T Mobility Spectrum, LLC \$29,490,000 \$29,844,186 CMA050 B 12 876,156 10,513,872 AT&T Mobility Spectrum, LLC \$11,916,000 \$12,059,116 CMA051 B 12 1,122,750 13,473,000 AT&T Mobility Spectrum, LLC \$30,733,000 \$31,102,115 CMA052 B 12 694,960 8,339,520 AT&T Mobility Spectrum, LLC \$12,398,000 \$12,546,905 CMA053 B 12 650,154 7,801,848 AT&T Mobility Spectrum, LLC \$10,736,000 \$10,864,943 CMA054 B 12 631,362 7,576,344 AT&T Mobility Spectrum, LLC \$7,020,000 \$7,104,313 CMA055 B 12 671,232 8,054,784 AT&T Mobility Spectrum, LLC \$11,858,000 \$12,000,419 CMA056	CMA045	В		1,049,422			\$92,226,000	\$93,333,668
CMA048 B 12 805,133 9,661,596 AT&T Mobility Spectrum, LLC \$11,657,000 \$11,797,005 CMA049 B 12 824,008 9,888,096 AT&T Mobility Spectrum, LLC \$29,490,000 \$29,844,186 CMA050 B 12 876,156 10,513,872 AT&T Mobility Spectrum, LLC \$11,916,000 \$12,059,116 CMA051 B 12 1,122,750 13,473,000 AT&T Mobility Spectrum, LLC \$30,733,000 \$31,102,115 CMA052 B 12 694,960 8,339,520 AT&T Mobility Spectrum, LLC \$12,398,000 \$12,546,905 CMA053 B 12 650,154 7,801,848 AT&T Mobility Spectrum, LLC \$10,736,000 \$10,864,943 CMA054 B 12 631,362 7,576,344 AT&T Mobility Spectrum, LLC \$7,020,000 \$7,104,313 CMA055 B 12 750,963 9,011,556 AT&T Mobility Spectrum, LLC \$11,858,000 \$12,000,419 CMA056 B 12 671,232 8,054,784 AT&T Mobility Spectrum, LLC \$24,336,000 \$24,628,284 CMA058 B <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
CMA049 B 12 824,008 9,888,096 AT&T Mobility Spectrum, LLC \$29,490,000 \$29,844,186 CMA050 B 12 876,156 10,513,872 AT&T Mobility Spectrum, LLC \$11,916,000 \$12,059,116 CMA051 B 12 1,122,750 13,473,000 AT&T Mobility Spectrum, LLC \$30,733,000 \$31,102,115 CMA052 B 12 694,960 8,339,520 AT&T Mobility Spectrum, LLC \$12,398,000 \$12,546,905 CMA053 B 12 650,154 7,801,848 AT&T Mobility Spectrum, LLC \$10,736,000 \$10,864,943 CMA054 B 12 631,362 7,576,344 AT&T Mobility Spectrum, LLC \$7,020,000 \$7,104,313 CMA055 B 12 750,963 9,011,556 AT&T Mobility Spectrum, LLC \$11,858,000 \$12,000,419 CMA056 B 12 671,232 8,054,784 AT&T Mobility Spectrum, LLC \$24,336,000 \$24,628,284 CMA057 B 12 841,604 10,099,248 AT&T Mobi	CMA047	В		1,085,874			\$57,465,000	\$58,155,176
CMA050 B 12 876,156 10,513,872 AT&T Mobility Spectrum, LLC \$11,916,000 \$12,059,116 CMA051 B 12 1,122,750 13,473,000 AT&T Mobility Spectrum, LLC \$30,733,000 \$31,102,115 CMA052 B 12 694,960 8,339,520 AT&T Mobility Spectrum, LLC \$12,398,000 \$12,546,905 CMA053 B 12 650,154 7,801,848 AT&T Mobility Spectrum, LLC \$10,736,000 \$10,864,943 CMA054 B 12 631,362 7,576,344 AT&T Mobility Spectrum, LLC \$7,020,000 \$7,104,313 CMA055 B 12 750,963 9,011,556 AT&T Mobility Spectrum, LLC \$11,858,000 \$12,000,419 CMA056 B 12 671,232 8,054,784 AT&T Mobility Spectrum, LLC \$10,832,000 \$10,962,096 CMA057 B 12 841,604 10,099,248 AT&T Mobility Spectrum, LLC \$24,336,000 \$24,628,284 CMA058 B 12 740,395 8,884,740 AT&T Mobility Spectrum, LLC \$25,572,000 \$25,879,129 CMA059 B <	CMA048	В		805,133			\$11,657,000	\$11,797,005
CMA051 B 12 1,122,750 13,473,000 AT&T Mobility Spectrum, LLC \$30,733,000 \$31,102,115 CMA052 B 12 694,960 8,339,520 AT&T Mobility Spectrum, LLC \$12,398,000 \$12,546,905 CMA053 B 12 650,154 7,801,848 AT&T Mobility Spectrum, LLC \$10,736,000 \$10,864,943 CMA054 B 12 631,362 7,576,344 AT&T Mobility Spectrum, LLC \$7,020,000 \$7,104,313 CMA055 B 12 750,963 9,011,556 AT&T Mobility Spectrum, LLC \$11,858,000 \$12,000,419 CMA056 B 12 671,232 8,054,784 AT&T Mobility Spectrum, LLC \$10,832,000 \$10,962,096 CMA057 B 12 841,604 10,099,248 AT&T Mobility Spectrum, LLC \$24,336,000 \$24,628,284 CMA058 B 12 740,395 8,884,740 AT&T Mobility Spectrum, LLC \$25,572,000 \$25,879,129 CMA059 B 12 865,941 10,391,292 AT&T Mobi	CMA049	В		824,008			\$29,490,000	\$29,844,186
CMA052 B 12 694,960 8,339,520 AT&T Mobility Spectrum, LLC \$12,398,000 \$12,546,905 CMA053 B 12 650,154 7,801,848 AT&T Mobility Spectrum, LLC \$10,736,000 \$10,864,943 CMA054 B 12 631,362 7,576,344 AT&T Mobility Spectrum, LLC \$7,020,000 \$7,104,313 CMA055 B 12 750,963 9,011,556 AT&T Mobility Spectrum, LLC \$11,858,000 \$12,000,419 CMA056 B 12 671,232 8,054,784 AT&T Mobility Spectrum, LLC \$10,832,000 \$10,962,096 CMA057 B 12 841,604 10,099,248 AT&T Mobility Spectrum, LLC \$24,336,000 \$24,628,284 CMA058 B 12 740,395 8,884,740 AT&T Mobility Spectrum, LLC \$25,572,000 \$25,879,129 CMA059 B 12 865,941 10,391,292 AT&T Mobility Spectrum, LLC \$24,745,000 \$25,042,197	CMA050	В		876,156			\$11,916,000	\$12,059,116
CMA053 B 12 650,154 7,801,848 AT&T Mobility Spectrum, LLC \$10,736,000 \$10,864,943 CMA054 B 12 631,362 7,576,344 AT&T Mobility Spectrum, LLC \$7,020,000 \$7,104,313 CMA055 B 12 750,963 9,011,556 AT&T Mobility Spectrum, LLC \$11,858,000 \$12,000,419 CMA056 B 12 671,232 8,054,784 AT&T Mobility Spectrum, LLC \$10,832,000 \$10,962,096 CMA057 B 12 841,604 10,099,248 AT&T Mobility Spectrum, LLC \$24,336,000 \$24,628,284 CMA058 B 12 740,395 8,884,740 AT&T Mobility Spectrum, LLC \$25,572,000 \$25,879,129 CMA059 B 12 865,941 10,391,292 AT&T Mobility Spectrum, LLC \$24,745,000 \$25,042,197	CMA051	В		1,122,750			\$30,733,000	\$31,102,115
CMA054 B 12 631,362 7,576,344 AT&T Mobility Spectrum, LLC \$7,020,000 \$7,104,313 CMA055 B 12 750,963 9,011,556 AT&T Mobility Spectrum, LLC \$11,858,000 \$12,000,419 CMA056 B 12 671,232 8,054,784 AT&T Mobility Spectrum, LLC \$10,832,000 \$10,962,096 CMA057 B 12 841,604 10,099,248 AT&T Mobility Spectrum, LLC \$24,336,000 \$24,628,284 CMA058 B 12 740,395 8,884,740 AT&T Mobility Spectrum, LLC \$25,572,000 \$25,879,129 CMA059 B 12 865,941 10,391,292 AT&T Mobility Spectrum, LLC \$24,745,000 \$25,042,197	CMA052	В		694,960			\$12,398,000	\$12,546,905
CMA055 B 12 750,963 9,011,556 AT&T Mobility Spectrum, LLC \$11,858,000 \$12,000,419 CMA056 B 12 671,232 8,054,784 AT&T Mobility Spectrum, LLC \$10,832,000 \$10,962,096 CMA057 B 12 841,604 10,099,248 AT&T Mobility Spectrum, LLC \$24,336,000 \$24,628,284 CMA058 B 12 740,395 8,884,740 AT&T Mobility Spectrum, LLC \$25,572,000 \$25,879,129 CMA059 B 12 865,941 10,391,292 AT&T Mobility Spectrum, LLC \$24,745,000 \$25,042,197								
CMA056 B 12 671,232 8,054,784 AT&T Mobility Spectrum, LLC \$10,832,000 \$10,962,096 CMA057 B 12 841,604 10,099,248 AT&T Mobility Spectrum, LLC \$24,336,000 \$24,628,284 CMA058 B 12 740,395 8,884,740 AT&T Mobility Spectrum, LLC \$25,572,000 \$25,879,129 CMA059 B 12 865,941 10,391,292 AT&T Mobility Spectrum, LLC \$24,745,000 \$25,042,197								
CMA057 B 12 841,604 10,099,248 AT&T Mobility Spectrum, LLC \$24,336,000 \$24,628,284 CMA058 B 12 740,395 8,884,740 AT&T Mobility Spectrum, LLC \$25,572,000 \$25,879,129 CMA059 B 12 865,941 10,391,292 AT&T Mobility Spectrum, LLC \$24,745,000 \$25,042,197								
CMA058 B 12 740,395 8,884,740 AT&T Mobility Spectrum, LLC \$25,572,000 \$25,879,129 CMA059 B 12 865,941 10,391,292 AT&T Mobility Spectrum, LLC \$24,745,000 \$25,042,197								
CMA059 B 12 865,941 10,391,292 AT&T Mobility Spectrum, LLC \$24,745,000 \$25,042,197								
		В						
CMA060 B 12 1,434,033 17,208,396 AT&T Mobility Spectrum, LLC \$87,282,000 \$88,330,289								
	CMA060	В	12	1,434,033	17,208,396	AT&T Mobility Spectrum, LLC	\$87,282,000	\$88,330,289

License	
Bandwidth	

		License				
36.34	D1 1	Bandwidth	D 1.4		Winning Bid	Winning Bid
Market	Block	(MHz)	Population		ng Bidder (2008 USD)	(2008 CAD)
CMA061	В	12	1,009,496	12,113,952 Cellco Partnership d/b/a Ver		\$59,453,585
CMA062	В	12	750,162	9,001,944 AT&T Mobility Spectrum, I		\$45,900,742
CMA063	В	12	608,479	7,301,748 AT&T Mobility Spectrum, I		\$11,947,794
CMA064	В	12	812,649	9,751,788 AT&T Mobility Spectrum, I		\$38,902,691
CMA065	В	12	673,884	8,086,608 AT&T Mobility Spectrum, I		\$15,933,091
CMA066	В	12	482,671	5,792,052 Cellco Partnership d/b/a Ven		\$5,533,673
CMA067	В	12	744,164	8,929,968 AT&T Mobility Spectrum, I		\$13,015,465
CMA068	В	12	507,828	6,093,936 AT&T Mobility Spectrum, I		\$7,487,865
CMA069	В	12	650,501	7,806,012 AT&T Mobility Spectrum, I		\$21,539,629
CMA070	В	12	615,301	7,383,612 AT&T Mobility Spectrum, I		\$26,492,407
CMA071	В	12	969,387	11,632,644 Cellco Partnership d/b/a Ven		\$42,590,456
CMA072	В	12	1,131,184	13,574,208 Cellco Partnership d/b/a Ven		\$27,317,196
CMA073	В	12	753,197	9,038,364 AT&T Mobility Spectrum, I		\$20,462,850
CMA074	В	12	799,407	9,592,884 AT&T Mobility Spectrum, I	LLC \$14,057,000	\$14,225,830
CMA075	В	12	1,159,836	13,918,032 AT&T Mobility Spectrum, I	LLC \$37,045,000	\$37,489,924
CMA076	В	12	534,678	6,416,136 AT&T Mobility Spectrum, I	LLC \$5,936,000	\$6,007,294
CMA077	В	12	843,746	10,124,952 AT&T Mobility Spectrum, I	LLC \$27,041,000	\$27,365,772
CMA078	В	12	509,246	6,110,952 AT&T Mobility Spectrum, I	LLC \$13,031,000	\$13,187,507
CMA079	В	12	576,993	6,923,916 AT&T Mobility Spectrum, I	LLC \$18,346,000	\$18,566,342
CMA080	В	12	602,894	7,234,728 AT&T Mobility Spectrum, I	LLC \$16,010,000	\$16,202,286
CMA081	В	12	679,622	8,155,464 AT&T Mobility Spectrum, I	LLC \$9,321,000	\$9,432,949
CMA082	В	12	700,820	8,409,840 AT&T Mobility Spectrum, I	LLC \$12,524,000	\$12,674,418
CMA083	В	12	540,258	6,483,096 AT&T Mobility Spectrum, I	LLC \$11,046,000	\$11,178,667
CMA084	В	12	509,074	6,108,888 AT&T Mobility Spectrum, I	LLC \$5,547,000	\$5,613,622
CMA085	В	12	480,091	5,761,092 AT&T Mobility Spectrum, I	LLC \$5,446,000	\$5,511,408
CMA086	В	12	646,586	7,759,032 AT&T Mobility Spectrum, I		\$8,221,572
CMA087	В	12	406,934	4,883,208 AT&T Mobility Spectrum, I		\$5,779,591
CMA088	В	12	476,531	5,718,372 AT&T Mobility Spectrum, I		\$9,727,444
CMA089	В	12	512,351	6,148,212 AT&T Mobility Spectrum, I		\$12,268,602
CMA090	В	12	549,033	6,588,396 AT&T Mobility Spectrum, I		\$13,570,047
CMA091	В	12	2,176,135	26,113,620 Puerto Rico Telephone Com		\$11,636,095
CMA092	В	12	583,845	7,006,140 AT&T Mobility Spectrum, I		\$16,781,156
CMA093	В	12	1,375,765	16,509,180 AT&T Mobility Spectrum, I		\$83,269,225
CMA094	В	12	403,070	4,836,840 AT&T Mobility Spectrum, I		\$1,323,710
CMA095	В	12	536,691	6,440,292 AT&T Mobility Spectrum, I		\$15,702,353
CMA096	В	12	464,066	5,568,792 AT&T Mobility Spectrum, I		\$3,750,510
CMA097	В	12	661,645	7,939,740 AT&T Mobility Spectrum, I		\$8,347,062
CMA098	В	12	359,062	4,308,744 AT&T Mobility Spectrum, I		\$3,999,465
CMA099	В	12	473,043	5,676,516 AT&T Mobility Spectrum, I		\$5,229,058
CMA100	В	12	392,302	4,707,624 AT&T Mobility Spectrum, I		\$8,042,446
CMA101	В	12	385,090	4,621,080 AT&T Mobility Spectrum, I		\$2,648,431
CMA102	В	12	456,022	5,472,264 King Street Wireless, L.P.	\$27,057,000	\$27,381,965
CMA103	В	12	347,387	4,168,644 AT&T Mobility Spectrum, I		\$2,810,353
CMA104	В	12	489,330	5,871,960 AT&T Mobility Spectrum, I		\$13,220,903
CMA105	В	12	470,658	5,647,896 AT&T Mobility Spectrum, I		\$19,918,388
CMA106	В	12	440,801	5,289,612 AT&T Mobility Spectrum, I		\$7,216,646
CMA107	В	12	563,598	6,763,176 AT&T Mobility Spectrum, I		\$10,360,962
CMA108	В	12	452,846	5,434,152 AT&T Mobility Spectrum, I		\$8,773,118
CMA109	В	12	417,939	5,015,268 AT&T Mobility Spectrum, I		\$8,408,794
CMA110	В	12	315,538	3,786,456 AT&T Mobility Spectrum, I		\$3,516,736
CMA111	В	12	518,821	6,225,852 AT&T Mobility Spectrum, I		\$17,216,320
CMA112	В	12	380,783	4,569,396 AT&T Mobility Spectrum, I		\$1,304,481
CMA113	В	12	426,526	5,118,312 AT&T Mobility Spectrum, I		\$12,173,473
CMA114	В	12	483,924	5,807,088 AT&T Mobility Spectrum, I		\$16,260,983
CMA115	В	12	299,896	3,598,752 PCS Partners, L.P.	\$10,006,000 \$674,000	\$682,095
CMA116	В	12	408,326	4,899,912 AT&T Mobility Spectrum, I		\$11,608,771
CMA117	В	12	537,484	6,449,808 AT&T Mobility Spectrum, I		\$6,709,629
CMA117 CMA118	В	12	373,638	4,483,656 AT&T Mobility Spectrum, I		\$1,841,859
CMA118 CMA119		12		3,944,340 AT&T Mobility Spectrum, I		
CIVIAIII	В	14	328,695	5,744,540 AT&T MOUNTY Spectrum, I	LLC \$673,000	\$681,083

License	
Bandwidth	

		License				1177 · D.1	**** * ***
Monkot	Dlook	Bandwidth	Danulation	MIIa * Don	Winning Diddon	Winning Bid	Winning Bid
Market CMA120	Block	(MHz)	Population 424 607	MHz * Pop	Winning Bidder AT&T Mobility Spectrum, LLC	(2008 USD)	(2008 CAD)
	В	12	424,607			\$9,590,000	\$9,705,179
CMA121 CMA122	В	12	350,761 294,558		AT&T Mobility Spectrum, LLC Cavalier Wireless, LLC	\$2,410,000 \$186,000	\$2,438,945 \$188,234
CMA123	B B	12	458,614		•	\$5,181,000	\$5,243,226
CMA124	В	12	399,347		AT&T Mobility Spectrum, LLC AT&T Mobility Spectrum, LLC	\$12,251,000	
CMA125	В	12	358,365		AT&T Mobility Spectrum, LLC	\$6,908,000	\$12,398,139 \$6,990,968
CMA126	В	12	401,762		AT&T Mobility Spectrum, LLC	\$4,963,000	\$5,022,607
CMA127	В	12	412,153		AT&T Mobility Spectrum, LLC	\$19,446,000	\$19,679,554
CMA128		12	569,463		AT&T Mobility Spectrum, LLC	\$8,342,000	
CMA129	B B	12	310,687		AT&T Mobility Spectrum, LLC	\$2,200,000	\$8,442,191 \$2,226,423
CMA130	В	12	280,843		Triad 700, LLC	\$2,200,000	\$2,220,423
CMA131	В	12	320,204		AT&T Mobility Spectrum, LLC	\$2,407,000	\$2,435,909
CMA131 CMA132	В	12	320,204		AT&T Mobility Spectrum, LLC	\$3,631,000	\$3,674,610
CMA132 CMA133	В	12	380,841		AT&T Mobility Spectrum, LLC	\$7,911,000	\$8,006,014
CMA134	В	12	354,878		AT&T Mobility Spectrum, LLC	\$2,520,000	\$2,550,266
CMA135	В	12	322,959		AT&T Mobility Spectrum, LLC	\$1,978,000	\$2,001,757
CMA136	В	12	284,664		CenturyTel Broadband Wireless LLC	\$408,000	\$412,900
CMA137	В	12	476,230		AT&T Mobility Spectrum, LLC	\$12,615,000	\$12,766,511
CMA137	В	12	322,549		AT&T Mobility Spectrum, LLC	\$7,171,000	\$7,257,126
CMA139	В	12	333,055		AT&T Mobility Spectrum, LLC	\$3,930,000	\$3,977,201
CMA140	В	12	251,662		King Street Wireless, L.P.	\$661,000	\$668,939
CMA141	В	12	243,815		AT&T Mobility Spectrum, LLC	\$1,607,000	\$1,626,301
CMA141 CMA142	В	12	446,997		AT&T Mobility Spectrum, LLC	\$12,193,000	\$1,020,301
CMA143	В	12	232,621		Miller, David	\$158,000	\$159,898
CMA144	В	12	341,367		AT&T Mobility Spectrum, LLC	\$1,831,000	\$1,852,991
CMA145	В	12	332,807		AT&T Mobility Spectrum, LLC	\$866,000	\$876,401
CMA146	В	12	443,343		AT&T Mobility Spectrum, LLC	\$16,553,000	\$16,751,808
CMA147	В	12	264,919		VentureTel 700, Inc.	\$590,000	\$597,086
CMA148	В	12	347,214		AT&T Mobility Spectrum, LLC	\$1,161,000	\$1,174,944
CMA149	В	12	302,963		King Street Wireless, L.P.	\$5,351,000	\$5,415,267
CMA150	В	12	368,021		AT&T Mobility Spectrum, LLC	\$4,408,000	\$4,460,942
CMA151	В	12	280,150		PCS Partners, L.P.	\$674,000	\$682,095
CMA152	В	12	300,826		AT&T Mobility Spectrum, LLC	\$1,662,000	\$1,681,961
CMA153	В	12	250,929		Cellco Partnership d/b/a Verizon Wireless	\$826,000	\$835,921
CMA154	В	12	259,088		Triad 700, LLC	\$717,000	\$725,611
CMA155	В	12	293,000		AT&T Mobility Spectrum, LLC	\$9,064,000	\$9,172,862
CMA156	В	12	298,975		AT&T Mobility Spectrum, LLC	\$2,099,000	\$2,124,210
CMA157	В	12	241,023		Cox Wireless, Inc.	\$2,339,000	\$2,367,092
CMA158	В	12	219,469		Triad 700, LLC	\$659,000	\$666,915
CMA159	В	12	368,536		AT&T Mobility Spectrum, LLC	\$6,032,000	\$6,104,447
CMA160	В	12	312,952		AT&T Mobility Spectrum, LLC	\$4,324,000	\$4,375,933
CMA161	В	12	242,628	2,911,536	Cellco Partnership d/b/a Verizon Wireless	\$714,000	\$722,575
CMA162	В	12	335,227	4,022,724	AT&T Mobility Spectrum, LLC	\$2,568,000	\$2,598,843
CMA163	В	12	294,676	3,536,112	AT&T Mobility Spectrum, LLC	\$9,274,000	\$9,385,384
CMA164	В	12	440,888	5,290,656	AT&T Mobility Spectrum, LLC	\$12,635,000	\$12,786,751
CMA165	В	12	255,399	3,064,788	Cox Wireless, Inc.	\$5,789,000	\$5,858,528
CMA166	В	12	264,436	3,173,232	Cavalier Wireless, LLC	\$889,000	\$899,677
CMA167	В	12	325,957	3,911,484	AT&T Mobility Spectrum, LLC	\$3,171,000	\$3,209,085
CMA168	В	12	307,402	3,688,824	AT&T Mobility Spectrum, LLC	\$9,312,000	\$9,423,841
CMA169	В	12	227,412	2,728,944	VentureTel 700, Inc.	\$547,000	\$553,570
CMA170	В	12	250,158	3,001,896	Triad 700, LLC	\$930,000	\$941,170
CMA171	В	12	339,486	4,073,832	AT&T Mobility Spectrum, LLC	\$2,689,000	\$2,721,296
CMA172	В	12	250,291	3,003,492	Cable Montana LLC	\$1,770,000	\$1,791,258
CMA173	В	12	246,190		AT&T Mobility Spectrum, LLC	\$4,503,000	\$4,557,083
CMA174	В	12	239,086		Cox Wireless, Inc.	\$2,965,000	\$3,000,611
CMA175	В	12	255,602		Triad 700, LLC	\$989,000	\$1,000,878
CMA176	В	12	201,437		King Street Wireless, L.P.	\$1,618,000	\$1,637,433
CMA177	В	12	194,740		Agri-Valley Communications, Inc.	\$375,000	\$379,504
CMA178	В	12	153,172	1,838,064	GreenFly LLC	\$159,000	\$160,910

License	
Bandwidth	

		License				TT7	177 · D.1
Monkot	Dlook	Bandwidth	Danulation	MUz * Don	Winning Diddon	Winning Bid	Winning Bid
Market CMA179	Block	(MHz)	Population 205,009	MHz * Pop	Winning Bidder	(2008 USD)	(2008 CAD)
	В	12	· · · · · · · · · · · · · · · · · · ·		King Street Wireless, L.P.	\$1,895,000	\$1,917,760
CMA180 CMA181	В	12	183,632 197,073		Cavalier Wireless, LLC	\$297,000 \$339,000	\$300,567 \$343,072
CMA181	B B	12	311,121		Agri-Valley Communications, Inc.	\$5,789,000	\$5,858,528
CMA183	В	12	225,965		AT&T Mobility Spectrum, LLC King Street Wireless, L.P.	\$712,000	\$5,838,328 \$720,551
CMA184	В	12	194,477		maxima international lle	\$113,000	\$120,331 \$114,357
CMA185	В	12	170,943		I-700, LLC	\$665,000	\$672,987
CMA186	В	12	226,778		King Street Wireless, L.P.	\$3,752,000	\$3,797,063
CMA187	В	12	260,283		AT&T Mobility Spectrum, LLC	\$1,383,000	\$1,399,610
CMA188	В	12	217,858		Cellco Partnership d/b/a Verizon Wireless	\$765,000	\$774,188
CMA189	В	12	188,831		King Street Wireless, L.P.	\$2,990,000	\$3,025,911
CMA190	В	12	300,904		AT&T Mobility Spectrum, LLC	\$3,609,000	\$3,652,345
CMA191	В	12	222,581		Cellco Partnership d/b/a Verizon Wireless	\$1,866,000	\$1,888,411
CMA192	В	12	244,043		Cox Wireless, Inc.	\$8,069,000	\$8,165,912
CMA193	В	12	162,453		King Street Wireless, L.P.	\$423,000	\$428,080
CMA194	В	12	213,517		Cellco Partnership d/b/a Verizon Wireless	\$951,000	\$962,422
CMA195	В	12	191,701		King Street Wireless, L.P.	\$3,047,000	\$3,083,596
CMA196	В	12	179,669		I-700, LLC	\$819,000	\$828,836
CMA197	В	12	183,577		Cellco Partnership d/b/a Verizon Wireless	\$3,885,000	\$3,931,660
CMA198	В	12	231,809		Wireless Communications Venture	\$8,055,000	\$8,151,744
CMA199	В	12	132,008		Triad 700, LLC	\$58,000	\$58,697
CMA200	В	12	157,110		King Street Wireless, L.P.	\$365,000	\$369,384
CMA201	В	12	151,337		King Street Wireless, L.P.	\$1,827,000	\$1,848,943
CMA202	В	12	199,750		VentureTel 700, Inc.	\$401,000	\$405,816
CMA203	В	12	161,946		King Street Wireless, L.P.	\$428,000	\$433,140
CMA204	В	12	190,868		VentureTel 700, Inc.	\$204,000	\$206,450
CMA205	В	12	145,035		Cellco Partnership d/b/a Verizon Wireless	\$1,714,000	\$1,734,586
CMA206	В	12	173,489		Cellco Partnership d/b/a Verizon Wireless	\$1,062,000	\$1,074,755
CMA207	В	12	158,422		PCS Partners, L.P.	\$197,000	\$199,366
CMA208	В	12	319,426	3,833,112	AT&T Mobility Spectrum, LLC	\$2,301,000	\$2,328,636
CMA209	В	12	207,033	2,484,396	Bluegrass Wireless LLC	\$881,000	\$891,581
CMA210	В	12	251,494	3,017,928	Cellco Partnership d/b/a Verizon Wireless	\$2,076,000	\$2,100,934
CMA211	В	12	264,002	3,168,024	Cellco Partnership d/b/a Verizon Wireless	\$1,780,000	\$1,801,378
CMA212	В	12	231,969	2,783,628	Whidbey Telephone Company	\$1,902,000	\$1,924,844
CMA213	В	12	134,953	1,619,436	Triad 700, LLC	\$170,000	\$172,042
CMA214	В	12	191,822	2,301,864	Whidbey Telephone Company	\$1,129,000	\$1,142,560
CMA215	В	12	203,171	, ,	Triad 700, LLC	\$373,000	\$377,480
CMA216	В	12	152,307		King Street Wireless, L.P.	\$546,000	\$552,558
CMA217	В	12	133,358		Cellco Partnership d/b/a Verizon Wireless	\$1,094,000	\$1,107,139
CMA218	В	12	233,450		King Street Wireless, L.P.	\$1,768,000	\$1,789,234
CMA219	В	12	147,250		CenturyTel Broadband Wireless LLC	\$1,729,000	\$1,749,766
CMA220	В	12	160,245		Central Texas Telephone Investments, LP	\$641,000	\$648,699
CMA221	В	12	174,367	2,092,404			
CMA222	В	12	164,875		CenturyTel Broadband Wireless LLC	\$429,000	\$434,152
CMA223	В	12	182,791		King Street Wireless, L.P.	\$724,000	\$732,696
CMA224	В	12	144,919		King Street Wireless, L.P.	\$680,000	\$688,167
CMA225	В	12	129,144		Buffalo-Lake Erie Wireless Systems Co., L.L.C.	\$210,000	\$212,522
CMA226	В	12	142,950		Cellular South Licenses, Inc.	\$205,000	\$207,462
CMA227	В	12	165,740		West Carolina Communications, LLC	\$406,000	\$410,876
CMA228	В	12	146,438		AT&T Mobility Spectrum, LLC	\$313,000	\$316,759
CMA229	В	12	181,269		King Street Wireless, L.P.	\$775,000	\$784,308
CMA231	В	12	114,706		King Street Wireless, L.P.	\$617,000 \$407,000	\$624,410 \$411,888
CMA231	В	12	128,852		Triad 700, LLC	\$407,000	\$411,888
CMA232	В	12 12	148,337		King Street Wireless, L.P.	\$6,920,000 \$630,000	\$7,003,112 \$646,675
CMA233 CMA234	B B	12	142,670 195,033		King Street Wireless, L.P. Cellco Partnership d/b/a Verizon Wireless	\$639,000 \$581,000	\$646,675 \$587,978
CMA234 CMA235	В	12	130,571		Broadband Wireless Unlimited, LLC	\$96,000	\$387,978 \$97,153
CMA236	В	12	118,769		I-700, LLC	\$381,000	\$385,576
CMA237	В	12	174,706		Cellco Partnership d/b/a Verizon Wireless	\$1,270,000	\$1,285,253
CIVITA23/	ט	12	174,700	2,090,472	cence I arthrosinp thora verizon veliciess	φ1,270,000	ψ1,203,233

License	
Bandwidth	

		License				****	**** * ***
Market	Block	Bandwidth (MHz)	Population	MHz * Don	Winning Diddon	Winning Bid (2008 USD)	Winning Bid
CMA238	В	12	120,293	MHz * Pop 1,443,516 Triad 7	Winning Bidder	\$350,000	(2008 CAD) \$354,204
CMA239	В	12	157,322		ryTel Broadband Wireless LLC	\$2,314,000	\$2,341,792
CMA240	В	12	143,377		Partnership d/b/a Verizon Wireless	\$942,000	\$953,314
CMA241	В	12	141,472		Partnership d/b/a Verizon Wireless	\$488,000	\$493,861
CMA242	В	12	207,355		bey Telephone Company	\$1,267,000	\$1,282,217
CMA243	В	12	180,936		Colorado Wireless Technologies, Inc.	\$1,657,000	\$1,676,901
CMA244	В	12	149,577		Street Wireless, L.P.	\$2,884,000	\$2,918,638
CMA245	В	12	258,916	3,106,992 Cox W		\$6,117,000	\$6,190,467
CMA246	В	12	137,916		ryTel Broadband Wireless LLC	\$2,129,000	\$2,154,570
CMA247	В	12	148,955		Street Wireless, L.P.	\$905,000	\$915,869
CMA248	В	12	153,472		ont Telephone Company, Inc.	\$1,597,000	\$1,616,181
CMA249	В	12	112,249		ar South Licenses, Inc.	\$287,000	\$290,447
CMA250	В	12	150,433	1,805,196 King S	Street Wireless, L.P.	\$1,573,000	\$1,591,892
CMA251	В	12	120,044	1,440,528 AT&T	Mobility Spectrum, LLC	\$371,000	\$375,456
CMA252	В	12	131,420	1,577,040 Cellula	ar South Licenses, Inc.	\$237,000	\$239,846
CMA253	В	12	124,130	1,489,560 King S	Street Wireless, L.P.	\$3,623,000	\$3,666,514
CMA254	В	12	163,256	1,959,072 King S	Street Wireless, L.P.	\$308,000	\$311,699
CMA255	В	12	121,123	1,453,476 Cellco	Partnership d/b/a Verizon Wireless	\$759,000	\$768,116
CMA256	В	12	159,576	1,914,912 King S	Street Wireless, L.P.	\$455,000	\$460,465
CMA257	В	12	131,923	1,583,076 King S	Street Wireless, L.P.	\$308,000	\$311,699
CMA258	В	12	150,355	1,804,260 King S	Street Wireless, L.P.	\$719,000	\$727,635
CMA259	В	12	135,758	1,629,096 Buffal	o-Lake Erie Wireless Systems Co., L.L.C.	\$165,000	\$166,982
CMA260	В	12	114,996	1,379,952 King S	Street Wireless, L.P.	\$764,000	\$773,176
CMA261	В	12	120,822	1,449,864 AT&T	Mobility Spectrum, LLC	\$557,000	\$563,690
CMA262	В	12	110,156	_	Street Wireless, L.P.	\$123,000	\$124,477
CMA263	В	12	125,834	_	Street Wireless, L.P.	\$3,907,000	\$3,953,925
CMA264	В	12	125,761		Mobility Spectrum, LLC	\$2,355,000	\$2,383,284
CMA265	В	12	170,498		ar South Licenses, Inc.	\$1,554,000	\$1,572,664
CMA266	В	12	124,345	1,492,140 World		\$400,000	\$404,804
CMA267	В	12	148,281		AWS Limited Partnership	\$2,938,000	\$2,973,286
CMA268	В	12	129,352		Partnership d/b/a Verizon Wireless	\$1,564,000	\$1,582,784
CMA269	В	12	102,008	_	Street Wireless, L.P.	\$517,000	\$523,209
CMA270	В	12	166,814		Mobility Spectrum, LLC	\$3,314,000	\$3,353,802
CMA271	В	12	101,541		Mobility Spectrum, LLC	\$624,000	\$631,494
CMA272	В	12	103,459		ar South Licenses, Inc.	\$502,000	\$508,029
CMA273	В	12	103,833	1,245,996 I-700,		\$493,000	\$498,921
CMA274	В	12	139,149		COMM Incorporated	\$985,000	\$996,830
CMA275	В	12	102,490		Street Wireless, L.P.	\$1,963,000	\$1,986,576
CMA276	В	12	97,478	1,169,736 FCC	Name of Windson L. D.	¢7 204 000	¢7 201 604
CMA277	В	12 12	112,646	_	Street Wireless, L.P.	\$7,294,000	\$7,381,604
CMA278 CMA279	B B	12	135,454 103,793		ryTel Broadband Wireless LLC Street Wireless, L.P.	\$1,215,000 \$220,000	\$1,229,593 \$222,642
CMA280	В	12	130,800	_	Street Wireless, L.P.	\$489,000	\$494,873
CMA281	В	12	193,117	_	Partnership d/b/a Verizon Wireless	\$483,000	\$488,801
CMA282	В	12	120,563	1,446,756 Triad 7	_	\$567,000	\$573,810
CMA283	В	12	148,217		ar South Licenses, Inc.	\$1,247,000	\$1,261,977
CMA284	В	12	91,070		band Wireless Unlimited, LLC	\$162,000	\$163,946
CMA285	В	12	174,682	2,096,184 PVT N		\$1,270,000	\$1,285,253
CMA286	В	12	89,143		Street Wireless, L.P.	\$1,019,000	\$1,031,239
CMA287	В	12	152,415	_	ryTel Broadband Wireless LLC	\$448,000	\$453,381
CMA288	В	12	124,277		est AWS Limited Partnership	\$1,519,000	\$1,537,244
CMA289	В	12	112,818		Partnership d/b/a Verizon Wireless	\$1,448,000	\$1,465,391
CMA290	В	12	107,120		ryTel Broadband Wireless LLC	\$2,971,000	\$3,006,683
CMA291	В	12	84,278		ryTel Broadband Wireless LLC	\$176,000	\$178,114
CMA292	В	12	110,595	1,327,140 Miller,	-	\$214,000	\$216,570
CMA293	В	12	91,545		rass Wireless LLC	\$320,000	\$323,843
CMA294	В	12	104,010	1,248,120 Centra	ll Texas Telephone Investments, LP	\$1,551,000	\$1,569,628
CMA295	В	12	116,009	1,392,108 Cellco	Partnership d/b/a Verizon Wireless	\$405,000	\$409,864
CMA296	В	12	111,006	1,332,072 King S	Street Wireless, L.P.	\$1,957,000	\$1,980,504

		License				****	W D
Market	Block	Bandwidth (MHz)	Population	MHz * Pop	Winning Bidder	Winning Bid (2008 USD)	Winning Bid (2008 CAD)
CMA297	В	12	80,357		Cellco Partnership d/b/a Verizon Wireless	\$648,000	\$655,783
CMA298	В	12	94,719	1,136,628	_	φοτο,οσο	Ψ033,703
CMA299	В	12	66,533		Cellco Partnership d/b/a Verizon Wireless	\$488,000	\$493,861
CMA300	В	12	84,088		Broadband Wireless Unlimited, LLC	\$207,000	\$209,486
CMA301	В	12	99,962		The World Company	\$1,495,000	\$1,512,956
CMA302	В	12	57,813		King Street Wireless, L.P.	\$879,000	\$889,557
CMA303	В	12	54,544		Broadband Wireless Unlimited, LLC	\$309,000	\$312,711
CMA304	В	12	37,535	450,420	King Street Wireless, L.P.	\$227,000	\$229,726
CMA305	В	12	21,668	260,016	King Street Wireless, L.P.	\$145,000	\$146,742
CMA306	В	12			CHEVRON USA INC.	\$675,000	\$683,107
CMA307	В	12	361,654	4,339,848	AT&T Mobility Spectrum, LLC	\$3,880,000	\$3,926,600
CMA308	В	12	142,366	1,708,392	Cellular South Licenses, Inc.	\$2,291,000	\$2,318,516
CMA309	В	12	135,766	1,629,192	CenturyTel Broadband Wireless LLC	\$138,000	\$139,657
CMA310	В	12	145,301	1,743,612	CenturyTel Broadband Wireless LLC	\$166,000	\$167,994
CMA311	В	12	221,338		CenturyTel Broadband Wireless LLC	\$359,000	\$363,312
CMA312	В	12	122,817		AT&T Mobility Spectrum, LLC	\$466,000	\$471,597
CMA313	В	12	171,679		CenturyTel Broadband Wireless LLC	\$1,932,000	\$1,955,204
CMA314	В	12	196,259		CenturyTel Broadband Wireless LLC	\$383,000	\$387,600
CMA315	В	12	128,275		AlasConnect, Inc.	\$560,000	\$566,726
CMA316	В	12	165,292		MTA Communications, Inc.	\$197,000	\$199,366
CMA317	В	12	73,082		MTA Communications, Inc.	\$42,000	\$42,504
CMA318	В	12	155,032		Data-Max Wireless LLC	\$434,000	\$439,213
CMA319	В	12	283,837		AT&T Mobility Spectrum, LLC	\$1,413,000	\$1,429,971
CMA320	В	12	166,893		SAL Spectrum, LLC	\$229,000	\$231,750
CMA321	В	12	179,741		PCS Partners, L.P.	\$509,000	\$515,113
CMA322	В	12	231,062		AT&T Mobility Spectrum, LLC	\$2,381,000	\$2,409,597
CMA323	В	12	198,172		PCS Partners, L.P.	\$362,000	\$366,348
CMA324	В	12	82,156		Cox Wireless, Inc.	\$979,000	\$990,758
CMA325	В	12	99,177		CenturyTel Broadband Wireless LLC	\$369,000	\$373,432
CMA326 CMA327	В	12 12	105,739		CenturyTel Broadband Wireless LLC	\$393,000	\$397,720 \$1,340,914
CMA328	B B	12	214,681 118,883		CenturyTel Broadband Wireless LLC CenturyTel Broadband Wireless LLC	\$1,325,000 \$893,000	\$903,725
CMA329	В	12	109,491		CenturyTel Broadband Wireless LLC	\$652,000	\$659,831
CMA330	В	12	122,345		CenturyTel Broadband Wireless LLC	\$1,203,000	\$1,217,448
CMA331	В	12	74,034		CenturyTel Broadband Wireless LLC	\$170,000	\$172,042
CMA332	В	12	70,834		Pine Cellular Phones, Inc.	\$411,000	\$415,936
CMA333	В	12	167,641		CenturyTel Broadband Wireless LLC	\$102,000	\$103,225
CMA334	В	12	67,704		CenturyTel Broadband Wireless LLC	\$129,000	\$130,549
CMA335	В	12	188,216		CenturyTel Broadband Wireless LLC	\$263,000	\$266,159
CMA336	В	12	211,348		King Street Wireless, L.P.	\$843,000	\$853,125
CMA337	В	12	64,101		King Street Wireless, L.P.	\$38,000	\$38,456
CMA338	В	12	148,493		Triad 700, LLC	\$402,000	\$406,828
CMA339	В	12	386,897	4,642,764	AT&T Mobility Spectrum, LLC	\$5,151,000	\$5,212,865
CMA340	В	12	246,681	2,960,172	Club 42 CM Limited Partnership	\$1,341,000	\$1,357,106
CMA341	В	12	30,798	369,576	Great American Broadband, Inc.	\$125,000	\$126,501
CMA342	В	12	142,361	1,708,332	QUALCOMM Incorporated	\$676,000	\$684,119
CMA343	В	12	101,296	1,215,552	King Street Wireless, L.P.	\$524,000	\$530,293
CMA344	В	12	144,574	1,734,888	King Street Wireless, L.P.	\$360,000	\$364,324
CMA345	В	12	95,588	1,147,056	Triad 700, LLC	\$210,000	\$212,522
CMA346	В	12	156,299		Triad 700, LLC	\$540,000	\$546,486
CMA347	В	12	129,461		Club 42 CM Limited Partnership	\$298,000	\$301,579
CMA348	В	12	52,879		AT&T Mobility Spectrum, LLC	\$944,000	\$955,338
CMA349	В	12	69,669		Cellco Partnership d/b/a Verizon Wireless	\$623,000	\$630,482
CMA350	В	12	324,669		AT&T Mobility Spectrum, LLC	\$4,485,000	\$4,538,867
CMA351	В	12	88,225		Cellco Partnership d/b/a Verizon Wireless	\$921,000	\$932,062
CMA352	В	12	36,201		Cellco Partnership d/b/a Verizon Wireless	\$486,000	\$491,837
CMA353	В	12	81,299		AT&T Mobility Spectrum, LLC	\$1,001,000	\$1,013,022
CMA354	В	12	52,425		CenturyTel Broadband Wireless LLC	\$284,000	\$287,411
CMA355	В	12	47,932	5/5,184	CenturyTel Broadband Wireless LLC	\$228,000	\$230,738

Market Block Market (MHz) (MHz) Population MHz *Pop Winning Bidder Winning Bid Winning Bid 2008 USD 2008 CAD CMA357 B 12 31,249 374,988 C&W Enterprises, Inc. \$84,000 \$85,1 CMA357 B 12 1182,193 2,186,316 Triad 700, LLC \$337,000 \$391,6 CMA358 B 12 109,091 1,309,092 Triad 700, LLC \$1,080,000 \$1,080,000 \$242,2 CMA359 B 12 283,335 3,400,020 AT&T Mobility Spectrum, LLC \$1,080,000 \$1,789,0 CMA360 B 12 2246,799 2,961,588 Triad 700, LLC \$281,000 \$284,4 CMA361 B 12 246,799 2,961,588 Triad 700, LLC \$21,000 \$284,4 CMA362 B 12 512,760 6153,120 AT&T Mobility Spectrum, LLC \$7,185,000 \$72,71,5 CMA363 B 12 512,200 6153,120 AT&T Mobility Spectrum, LLC \$7,185,000 \$370,00 CMA364 B 12 512,25)
CMA356 B 12 31,249 374,988 C&W Enterprises, Inc. \$84,000 \$85,0 CMA357 B 12 182,193 2,186,316 Triad 700, LLC \$3387,000 \$391,0 CMA358 B 12 190,901 1,309,092 Triad 700, LLC \$240,000 \$242,2 CMA359 B 12 283,335 3,400,020 AT&T Mobility Spectrum, LLC \$1,080,000 \$1,092,5 CMA360 B 12 246,799 2,961,588 Triad 700, LLC \$281,000 \$284,2 CMA361 B 12 246,799 2,961,588 Triad 700, LLC \$281,000 \$1,789,00 CMA362 B 12 200,774 2,409,288 Cellco Partnership d/b/a Verizon Wireless \$453,000 \$458, CMA363 B 12 512,760 6,153,120 AT&T Mobility Spectrum, LLC \$7,185,000 \$72,71,1 CMA364 B 12 162,714 752,568 Miller, David \$35,000 \$375,000 \$375,000 \$375,000	
CMA357 B 12 182,193 2,186,316 Triad 700, LLC \$387,000 \$391,4 CMA358 B 12 109,091 1,309,092 Triad 700, LLC \$240,000 \$242,3 CMA359 B 12 283,335 3,400,020 AT&T Mobility Spectrum, LLC \$1,768,000 \$1,792, CMA360 B 12 287,587 3,451,044 AT&T Mobility Spectrum, LLC \$1,768,000 \$1,789, CMA361 B 12 246,799 2,961,588 Triad 700, LLC \$281,000 \$284, CMA362 B 12 200,774 2,409,288 Cellco Partnership d/b/a Verizon Wireless \$453,000 \$458, CMA363 B 12 512,760 6,153,120 AT&T Mobility Spectrum, LLC \$7,185,000 \$7,271, CMA364 B 12 120,255 1,443,060 Dragon Arch, Inc. \$366,000 \$370, CMA365 B 12 62,714 752,568 Miller, David \$35,000 \$35, CMA366 B 12 118,126 1,417,512 Cavalier Wireless, LLC \$131,000	MO
CMA358 B 12 109,091 1,309,092 Triad 700, LLC \$240,000 \$242,0 CMA359 B 12 283,335 3,400,020 AT&T Mobility Spectrum, LLC \$1,080,000 \$1,092,9 CMA360 B 12 287,587 3,451,044 AT&T Mobility Spectrum, LLC \$1,768,000 \$1,789,00 CMA361 B 12 246,799 2,961,588 Triad 700, LLC \$281,000 \$284, CMA362 B 12 200,774 2,409,288 Cellco Partnership d/b/a Verizon Wireless \$453,000 \$458, CMA363 B 12 512,760 6,153,120 AT&T Mobility Spectrum, LLC \$7,185,000 \$7,271, CMA364 B 12 120,255 1,443,060 Dragon Arch, Inc. \$366,000 \$370, CMA365 B 12 62,714 752,568 Miller, David \$35,000 \$35,000 \$35,000 \$35,000 \$35,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$	
CMA359 B 12 283,335 3,400,020 AT&T Mobility Spectrum, LLC \$1,080,000 \$1,092,5 CMA360 B 12 287,587 3,451,044 AT&T Mobility Spectrum, LLC \$1,768,000 \$1,789,0 CMA361 B 12 246,799 2,961,588 Triad 700, LLC \$281,000 \$2284,0 CMA362 B 12 200,774 2,409,288 Cellco Partnership d/b/a Verizon Wireless \$453,000 \$458, CMA363 B 12 512,760 6,153,120 AT&T Mobility Spectrum, LLC \$7,185,000 \$7,271, CMA364 B 12 120,255 1,443,060 Dragon Arch, Inc. \$366,000 \$370, CMA365 B 12 62,714 752,568 Miller, David \$35,000 \$35, CMA366 B 12 118,126 1,417,512 Cavalier Wireless, LLC \$131,000 \$132,2 CMA367 B 12 57,913 694,956 Cavalier Wireless, LLC \$136,000 \$36,6 CMA369 B 12 126,893 1,522,716 Cellular South L	
CMA360 B 12 287,587 3,451,044 AT&T Mobility Spectrum, LLC \$1,768,000 \$1,789,00 CMA361 B 12 246,799 2,961,588 Triad 700, LLC \$281,000 \$284,000 CMA362 B 12 200,774 2,409,288 Cellco Partnership d/b/a Verizon Wireless \$453,000 \$458,8 CMA363 B 12 512,760 6,153,120 AT&T Mobility Spectrum, LLC \$7,185,000 \$7,271,1 CMA364 B 12 120,255 1,443,060 Dragon Arch, Inc. \$366,000 \$370,1 CMA365 B 12 62,714 752,568 Miller, David \$35,000 \$35,000 CMA366 B 12 118,126 1,417,512 Cavalier Wireless, LLC \$131,000 \$132,200 CMA367 B 12 57,913 694,956 Cavalier Wireless, LLC \$123,000 \$124,400 CMA369 B 12 126,893 1,522,716 Cellular South Licenses, Inc. \$409,000 \$413,500 CMA370 B 12 79,589 955,068 Triad 700, LLC \$1,359,0	
CMA361 B 12 246,799 2,961,588 Triad 700, LLC \$281,000 \$284,00 CMA362 B 12 200,774 2,409,288 Cellco Partnership d/b/a Verizon Wireless \$453,000 \$458,6 CMA363 B 12 512,760 6,153,120 AT&T Mobility Spectrum, LLC \$7,185,000 \$7,271,2 CMA364 B 12 120,255 1,443,060 Dragon Arch, Inc. \$366,000 \$370,2 CMA365 B 12 62,714 752,568 Miller, David \$350,000 \$35,000 \$35,000 \$35,000 \$35,000 \$35,000 \$35,000 \$35,000 \$35,000 \$35,000 \$35,000 \$35,000 \$35,000 \$35,000 \$35,000 \$35,000 \$35,000 \$35,000 \$35,000 \$35,000 \$35,000 \$35,000 \$35,000 \$35,000 \$35,000 \$35,000 \$35,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$36,000 \$3	
CMA362 B 12 200,774 2,409,288 Cellco Partnership d/b/a Verizon Wireless \$453,000 \$458,6 CMA363 B 12 512,760 6,153,120 AT&T Mobility Spectrum, LLC \$7,185,000 \$7,271,2 CMA364 B 12 120,255 1,443,060 Dragon Arch, Inc. \$366,000 \$370,3 CMA365 B 12 62,714 752,568 Miller, David \$35,000 \$35, CMA366 B 12 118,126 1,417,512 Cavalier Wireless, LLC \$131,000 \$132, CMA367 B 12 57,913 694,956 Cavalier Wireless, LLC \$36,000 \$36, CMA368 B 12 44,427 533,124 Cavalier Wireless, LLC \$123,000 \$124, CMA369 B 12 126,893 1,522,716 Cellular South Licenses, Inc. \$409,000 \$413, CMA370 B 12 79,589 955,068 Triad 700, LLC \$75,000 \$75,5 CMA371 B 12 256,980 3,083,760 AT&T Mobility Spectrum, LLC \$3,908,000 <td< td=""><td></td></td<>	
CMA363 B 12 512,760 6,153,120 AT&T Mobility Spectrum, LLC \$7,185,000 \$7,271,2 CMA364 B 12 120,255 1,443,060 Dragon Arch, Inc. \$366,000 \$370,3 CMA365 B 12 62,714 752,568 Miller, David \$35,000 \$35,6 CMA366 B 12 118,126 1,417,512 Cavalier Wireless, LLC \$131,000 \$132,5 CMA367 B 12 57,913 694,956 Cavalier Wireless, LLC \$36,000 \$36,6 CMA368 B 12 44,427 533,124 Cavalier Wireless, LLC \$123,000 \$124,6 CMA369 B 12 126,893 1,522,716 Cellular South Licenses, Inc. \$409,000 \$413,9 CMA370 B 12 79,589 955,068 Triad 700, LLC \$75,000 \$75,5 CMA371 B 12 256,980 3,083,760 AT&T Mobility Spectrum, LLC \$3,908,000 \$3,954,5 CMA373 B 12 230,181 2,762,172 Cavalier Wireless, LLC \$522,000 \$528,2	
CMA365 B 12 62,714 752,568 Miller, David \$35,000 \$35,500 CMA366 B 12 118,126 1,417,512 Cavalier Wireless, LLC \$131,000 \$132,500 CMA367 B 12 57,913 694,956 Cavalier Wireless, LLC \$36,000 \$36,600 CMA368 B 12 44,427 533,124 Cavalier Wireless, LLC \$123,000 \$124,400 CMA369 B 12 126,893 1,522,716 Cellular South Licenses, Inc. \$409,000 \$413,500 CMA370 B 12 79,589 955,068 Triad 700, LLC \$75,000 \$75,500 CMA371 B 12 256,980 3,083,760 AT&T Mobility Spectrum, LLC \$1,359,000 \$1,375,500 CMA372 B 12 353,474 4,241,688 AT&T Mobility Spectrum, LLC \$3,908,000 \$3,954,500 CMA373 B 12 137,356 1,648,272 Miller, David \$144,000 \$145,70 CMA375 B 12 271,964 3,263,568 AT&T Mobility Spectrum, LLC \$1,855,000	
CMA366 B 12 118,126 1,417,512 Cavalier Wireless, LLC \$131,000 \$132,200 CMA367 B 12 57,913 694,956 Cavalier Wireless, LLC \$36,000 \$36,000 CMA368 B 12 44,427 533,124 Cavalier Wireless, LLC \$123,000 \$124,400 CMA369 B 12 126,893 1,522,716 Cellular South Licenses, Inc. \$409,000 \$413,500 CMA370 B 12 79,589 955,068 Triad 700, LLC \$75,000 \$75,500 CMA371 B 12 256,980 3,083,760 AT&T Mobility Spectrum, LLC \$1,359,000 \$1,375,500 CMA372 B 12 353,474 4,241,688 AT&T Mobility Spectrum, LLC \$3,908,000 \$326,44 CMA373 B 12 230,181 2,762,172 Cavalier Wireless, LLC \$522,000 \$528,200 CMA374 B 12 137,356 1,648,272 Miller, David \$144,000 \$145,77,20 CMA376 B 12 211,408 2,536,896 Public Service Wireless Services, Inc.	396
CMA367 B 12 57,913 694,956 Cavalier Wireless, LLC \$36,000 \$36,000 CMA368 B 12 44,427 533,124 Cavalier Wireless, LLC \$123,000 \$124,403 CMA369 B 12 126,893 1,522,716 Cellular South Licenses, Inc. \$409,000 \$413,500 CMA370 B 12 79,589 955,068 Triad 700, LLC \$75,000 \$75,500 CMA371 B 12 256,980 3,083,760 AT&T Mobility Spectrum, LLC \$1,359,000 \$1,375,50 CMA372 B 12 353,474 4,241,688 AT&T Mobility Spectrum, LLC \$3,908,000 \$3,954,9 CMA373 B 12 230,181 2,762,172 Cavalier Wireless, LLC \$522,000 \$528,2 CMA374 B 12 137,356 1,648,272 Miller, David \$144,000 \$145,7 CMA376 B 12 271,964 3,263,568 AT&T Mobility Spectrum, LLC \$1,855,000 \$832,8 CMA377 B 12 139,606 1,675,272 Miller, David \$50,000	120
CMA368 B 12 44,427 533,124 Cavalier Wireless, LLC \$123,000 \$124,424 CMA369 B 12 126,893 1,522,716 Cellular South Licenses, Inc. \$409,000 \$413,924 CMA370 B 12 79,589 955,068 Triad 700, LLC \$75,000 \$75,900 CMA371 B 12 256,980 3,083,760 AT&T Mobility Spectrum, LLC \$1,359,000 \$1,375,35 CMA372 B 12 353,474 4,241,688 AT&T Mobility Spectrum, LLC \$3,908,000 \$3,954,9 CMA373 B 12 230,181 2,762,172 Cavalier Wireless, LLC \$522,000 \$528,2 CMA374 B 12 137,356 1,648,272 Miller, David \$144,000 \$145,7 CMA375 B 12 271,964 3,263,568 AT&T Mobility Spectrum, LLC \$1,855,000 \$1,877,2 CMA376 B 12 211,408 2,536,896 Public Service Wireless Services, Inc. \$823,000 \$322,8 CMA377 B 12 139,606 1,675,272 Miller, David <th< td=""><td>573</td></th<>	573
CMA369 B 12 126,893 1,522,716 Cellular South Licenses, Inc. \$409,000 \$413,900 CMA370 B 12 79,589 955,068 Triad 700, LLC \$75,000 \$75,000 CMA371 B 12 256,980 3,083,760 AT&T Mobility Spectrum, LLC \$1,359,000 \$1,375,300 CMA372 B 12 353,474 4,241,688 AT&T Mobility Spectrum, LLC \$3,908,000 \$3,954,900 CMA373 B 12 230,181 2,762,172 Cavalier Wireless, LLC \$522,000 \$528,000 CMA374 B 12 137,356 1,648,272 Miller, David \$144,000 \$145,7 CMA375 B 12 271,964 3,263,568 AT&T Mobility Spectrum, LLC \$1,855,000 \$1,877,2 CMA376 B 12 211,408 2,536,896 Public Service Wireless Services, Inc. \$823,000 \$322,8 CMA377 B 12 139,606 1,675,272 Miller, David \$50,000 \$50,00 CMA378 B 12 166,601 1,999,212 PBP Bidco LLC \$32	132
CMA370 B 12 79,589 955,068 Triad 700, LLC \$75,000 \$75,500 CMA371 B 12 256,980 3,083,760 AT&T Mobility Spectrum, LLC \$1,359,000 \$1,375,350 CMA372 B 12 353,474 4,241,688 AT&T Mobility Spectrum, LLC \$3,908,000 \$3,954,5 CMA373 B 12 230,181 2,762,172 Cavalier Wireless, LLC \$522,000 \$528,0 CMA374 B 12 137,356 1,648,272 Miller, David \$144,000 \$145,7 CMA375 B 12 271,964 3,263,568 AT&T Mobility Spectrum, LLC \$1,855,000 \$1,877,2 CMA376 B 12 211,408 2,536,896 Public Service Wireless Services, Inc. \$823,000 \$832,8 CMA377 B 12 139,606 1,675,272 Miller, David \$50,000 \$50,6 CMA378 B 12 166,601 1,999,212 PBP Bidco LLC \$326,000 \$329,9 CMA379 B 12 124,063 1,488,756 Public Service Wireless Services, Inc. \$	↓ 77
CMA371 B 12 256,980 3,083,760 AT&T Mobility Spectrum, LLC \$1,359,000 \$1,375,50 CMA372 B 12 353,474 4,241,688 AT&T Mobility Spectrum, LLC \$3,908,000 \$3,954,9 CMA373 B 12 230,181 2,762,172 Cavalier Wireless, LLC \$522,000 \$528,2 CMA374 B 12 137,356 1,648,272 Miller, David \$144,000 \$145,7 CMA375 B 12 271,964 3,263,568 AT&T Mobility Spectrum, LLC \$1,855,000 \$1,877,2 CMA376 B 12 211,408 2,536,896 Public Service Wireless Services, Inc. \$823,000 \$832,30 CMA377 B 12 139,606 1,675,272 Miller, David \$50,000 \$50,00 CMA378 B 12 166,601 1,999,212 PBP Bidco LLC \$326,000 \$329,9 CMA379 B 12 124,063 1,488,756 Public Service Wireless Services, Inc. \$216,000 \$218,5	
CMA372 B 12 353,474 4,241,688 AT&T Mobility Spectrum, LLC \$3,908,000 \$3,954,9 CMA373 B 12 230,181 2,762,172 Cavalier Wireless, LLC \$522,000 \$528,3 CMA374 B 12 137,356 1,648,272 Miller, David \$144,000 \$145,7 CMA375 B 12 271,964 3,263,568 AT&T Mobility Spectrum, LLC \$1,855,000 \$1,877,2 CMA376 B 12 211,408 2,536,896 Public Service Wireless Services, Inc. \$823,000 \$832,8 CMA377 B 12 139,606 1,675,272 Miller, David \$50,000 \$50,0 CMA378 B 12 166,601 1,999,212 PBP Bidco LLC \$326,000 \$329,9 CMA379 B 12 124,063 1,488,756 Public Service Wireless Services, Inc. \$216,000 \$218,3	
CMA373 B 12 230,181 2,762,172 Cavalier Wireless, LLC \$522,000 \$528,2 CMA374 B 12 137,356 1,648,272 Miller, David \$144,000 \$145,7 CMA375 B 12 271,964 3,263,568 AT&T Mobility Spectrum, LLC \$1,855,000 \$1,877,3 CMA376 B 12 211,408 2,536,896 Public Service Wireless Services, Inc. \$823,000 \$832,4 CMA377 B 12 139,606 1,675,272 Miller, David \$50,000 \$50,00 CMA378 B 12 166,601 1,999,212 PBP Bidco LLC \$326,000 \$329,9 CMA379 B 12 124,063 1,488,756 Public Service Wireless Services, Inc. \$216,000 \$218,5	
CMA374 B 12 137,356 1,648,272 Miller, David \$144,000 \$145,7 CMA375 B 12 271,964 3,263,568 AT&T Mobility Spectrum, LLC \$1,855,000 \$1,877,2 CMA376 B 12 211,408 2,536,896 Public Service Wireless Services, Inc. \$823,000 \$832,8 CMA377 B 12 139,606 1,675,272 Miller, David \$50,000 \$50,00 CMA378 B 12 166,601 1,999,212 PBP Bidco LLC \$326,000 \$329,9 CMA379 B 12 124,063 1,488,756 Public Service Wireless Services, Inc. \$216,000 \$218,5	
CMA375 B 12 271,964 3,263,568 AT&T Mobility Spectrum, LLC \$1,855,000 \$1,877,2 CMA376 B 12 211,408 2,536,896 Public Service Wireless Services, Inc. \$823,000 \$832,8 CMA377 B 12 139,606 1,675,272 Miller, David \$50,000 \$50,00 CMA378 B 12 166,601 1,999,212 PBP Bidco LLC \$326,000 \$329,9 CMA379 B 12 124,063 1,488,756 Public Service Wireless Services, Inc. \$216,000 \$218,5	
CMA376 B 12 211,408 2,536,896 Public Service Wireless Services, Inc. \$823,000 \$832,8 CMA377 B 12 139,606 1,675,272 Miller, David \$50,000 \$50,000 CMA378 B 12 166,601 1,999,212 PBP Bidco LLC \$326,000 \$329,9 CMA379 B 12 124,063 1,488,756 Public Service Wireless Services, Inc. \$216,000 \$218,5	
CMA377 B 12 139,606 1,675,272 Miller, David \$50,000 \$50,00 CMA378 B 12 166,601 1,999,212 PBP Bidco LLC \$326,000 \$326,000 \$329,9 CMA379 B 12 124,063 1,488,756 Public Service Wireless Services, Inc. \$216,000 \$218,5	
CMA378 B 12 166,601 1,999,212 PBP Bidco LLC \$326,000 \$329,9 CMA379 B 12 124,063 1,488,756 Public Service Wireless Services, Inc. \$216,000 \$218,5	
CMA379 B 12 124,063 1,488,756 Public Service Wireless Services, Inc. \$216,000 \$218,50	
CMA380 B 12 162,261 1,947,132 AT&T Mobility Spectrum, LLC \$737,000 \$745,8	
CMA381 B 12 162,419 1,949,028 Cavalier Wireless, LLC \$92,000 \$93,	
CMA382 B 12 220,558 2,646,696 AT&T Mobility Spectrum, LLC \$3,059,000 \$3,095,7	
CMA383 B 12 157,068 1,884,816 Miller, David \$165,000 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166,900 \$166	
CMA384 B 12 268,480 3,221,760 Broadband Wireless Unlimited, LLC \$146,000 \$147,700 CMA385 B 12 58,463 701,556 Triad 700, LLC \$182,000 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,500 \$184,	
CMA386 B 12 128,241 1,538,892 Triad 700, LLC \$622,000 \$629,6 CMA387 B 12 148,677 1,784,124 Triad 700, LLC \$398,000 \$402,7	
CMA388 B 12 263,355 3,160,260 Cellco Partnership d/b/a Verizon Wireless \$1,271,000 \$1,286,3	
CMA389 B 12 72,374 868,488 Whidbey Telephone Company \$58,000 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$58,600 \$	
CMA390 B 12 18,818 225,816 Manti Telephone Company \$212,000 \$214,4	
CMA391 B 12 171,215 2,054,580 Toba Inlet PCS, LLC \$175,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,000 \$177,00	
CMA392 B 12 165,296 1,983,552 Cellco Partnership d/b/a Verizon Wireless \$970,000 \$981,6	
CMA393 B 12 301,991 3,623,892 AT&T Mobility Spectrum, LLC \$2,888,000 \$2,922,6	
CMA394 B 12 324,658 3,895,896 AT&T Mobility Spectrum, LLC \$6,373,000 \$6,449,5	
CMA395 B 12 257,863 3,094,356 King Street Wireless, L.P. \$1,596,000 \$1,615,	
CMA396 B 12 198,214 2,378,568 AT&T Mobility Spectrum, LLC \$1,555,000 \$1,573,6	
CMA397 B 12 217,323 2,607,876 AT&T Mobility Spectrum, LLC \$1,744,000 \$1,764,5) 46
CMA398 B 12 94,671 1,136,052 King Street Wireless, L.P. \$550,000 \$556,000	506
CMA399 B 12 204,307 2,451,684 I-700, LLC \$836,000 \$846,)41
CMA400 B 12 235,571 2,826,852 King Street Wireless, L.P. \$898,000 \$908,7	185
CMA401 B 12 335,376 4,024,512 AT&T Mobility Spectrum, LLC \$2,404,000 \$2,432,5	373
CMA402 B 12 149,603 1,795,236 King Street Wireless, L.P. \$577,000 \$583,9	€30
CMA403 B 12 217,293 2,607,516 King Street Wireless, L.P. \$1,081,000 \$1,093,5	983
CMA404 B 12 188,455 2,261,460 Ligtel Communications, Inc. \$1,219,000 \$1,233,6	
CMA405 B 12 147,332 1,767,984 Great American Broadband, Inc. \$290,000 \$293,4	
CMA406 B 12 186,514 2,238,168 Cellco Partnership d/b/a Verizon Wireless \$2,055,000 \$2,079,6	
CMA407 B 12 126,683 1,520,196 I-700, LLC \$598,000 \$605,	
CMA408 B 12 220,355 2,644,260 Triad 700, LLC \$726,000 \$734,7	
CMA409 B 12 226,189 2,714,268 King Street Wireless, L.P. \$945,000 \$956,3	
CMA410 B 12 265,246 3,182,952 AT&T Mobility Spectrum, LLC \$3,023,000 \$3,059,3	
CMA411 B 12 147,985 1,775,820 Miles Communications Corp \$392,000 \$396,7	
CMA412 B 12 62,744 752,928 King Street Wireless, L.P. \$1,084,000 \$1,097,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,	
CMA413 B 12 51,752 621,024 King Street Wireless, L.P. \$1,217,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$1,231,000 \$	
CMA414 B 12 90,319 1,083,828 King Street Wireless, L.P. \$1,867,000 \$1,889,4	ı∠3

License	
Bandwidth	

		License				1177 · D.1	177 · D.1
Market	Block	Bandwidth (MHz)	Population	MHz * Pop	Winning Bidder	Winning Bid (2008 USD)	Winning Bid (2008 CAD)
CMA415	В	12	154,644		King Street Wireless, L.P.	\$3,959,000	\$4,006,549
CMA416	В	12	108,853		King Street Wireless, L.P.	\$1,800,000	\$1,821,619
CMA417	В	12	158,156		Iowa Telecommunications Services, Inc.	\$2,698,000	\$2,730,404
CMA418	В	12	55,129		King Street Wireless, L.P.	\$865,000	\$875,389
CMA419	В	12	55,801		King Street Wireless, L.P.	\$1,476,000	\$1,493,727
CMA420	В	12	62,268		Iowa Telecommunications Services, Inc.	\$1,217,000	\$1,231,617
CMA421	В	12	187,593		King Street Wireless, L.P.	\$2,476,000	\$2,505,738
CMA422	В	12	113,903		King Street Wireless, L.P.	\$881,000	\$891,581
CMA423	В	12	116,168		King Street Wireless, L.P.	\$1,233,000	\$1,247,809
CMA424	В	12	66,106		Iowa Telecommunications Services, Inc.	\$1,979,000	\$2,002,769
CMA425	В	12	106,046		King Street Wireless, L.P.	\$2,671,000	\$2,703,080
CMA426	В	12	84,043		King Street Wireless, L.P.	\$1,490,000	\$1,507,895
CMA427	В	12	103,341		King Street Wireless, L.P.	\$1,214,000	\$1,228,581
CMA428	В	12	27,356		The S&T Telephone Cooperative Association, Inc.	\$128,000	\$129,537
CMA429	В	12	29,573		Rural Telephone Service Company, Inc.	\$107,000	\$108,285
CMA430	В	12	51,872		Blue Valley Tele-Communications, Inc.	\$1,058,000	\$1,070,707
CMA431	В	12	130,681	1,568,172	Blue Valley Tele-Communications, Inc.	\$2,021,000	\$2,045,273
CMA432	В	12	117,095		AT&T Mobility Spectrum, LLC	\$2,064,000	\$2,088,789
CMA433	В	12	19,203	230,436	The S&T Telephone Cooperative Association, Inc.	\$64,000	\$64,769
CMA434	В	12	80,639		Cellco Partnership d/b/a Verizon Wireless	\$964,000	\$975,578
CMA435	В	12	133,142	1,597,704	Cellco Partnership d/b/a Verizon Wireless	\$1,018,000	\$1,030,227
CMA436	В	12	59,627	715,524	King Street Wireless, L.P.	\$1,743,000	\$1,763,934
CMA437	В	12	113,232	1,358,784	King Street Wireless, L.P.	\$811,000	\$820,740
CMA438	В	12	93,815	1,125,780	Cellco Partnership d/b/a Verizon Wireless	\$788,000	\$797,464
CMA439	В	12	47,468	569,616	Cellco Partnership d/b/a Verizon Wireless	\$646,000	\$653,759
CMA440	В	12	28,437	341,244	Cellco Partnership d/b/a Verizon Wireless	\$304,000	\$307,651
CMA441	В	12	175,105	2,101,260	King Street Wireless, L.P.	\$1,493,000	\$1,510,931
CMA442	В	12	154,883	1,858,596	King Street Wireless, L.P.	\$1,443,000	\$1,460,331
CMA443	В	12	193,495		BPS Telephone Company	\$421,000	\$426,056
CMA444	В	12	129,201	1,550,412	Bluegrass Wireless LLC	\$235,000	\$237,822
CMA445	В	12	332,060	3,984,720	AT&T Mobility Spectrum, LLC	\$3,640,000	\$3,683,718
CMA446	В	12	260,291		AT&T Mobility Spectrum, LLC	\$3,526,000	\$3,568,349
CMA447	В	12	164,614		Bluegrass Wireless LLC	\$1,109,000	\$1,122,320
CMA448	В	12	277,683		Bluegrass Wireless LLC	\$727,000	\$735,732
CMA449	В	12	187,538		AT&T Mobility Spectrum, LLC	\$1,013,000	\$1,025,167
CMA450	В	12	124,331		AT&T Mobility Spectrum, LLC	\$829,000	\$838,957
CMA451	В	12	196,797		East Kentucky Network, LLC	\$298,000	\$301,579
CMA452	В	12	150,294		Reiter, Scott D	\$55,000	\$55,661
CMA453	В	12	167,879		East Kentucky Network, LLC	\$108,000	\$109,297
CMA454	В	12	113,312		Cellco Partnership d/b/a Verizon Wireless	\$1,159,000	\$1,172,920
CMA455	В	12	115,346		Cellco Partnership d/b/a Verizon Wireless	\$1,727,000	\$1,747,742
CMA456	В	12	150,186		Cellco Partnership d/b/a Verizon Wireless	\$1,188,000	\$1,202,268
CMA457	В	12 12	72,903		CenturyTel Broadband Wireless LLC	\$760,000	\$769,128 \$5,242,214
CMA458 CMA459	B B	12	399,898 183,474		AT&T Mobility Spectrum, LLC Cox Wireless, Inc.	\$5,180,000 \$1,492,000	\$5,242,214 \$1,509,919
CMA460	В	12	191,510		CenturyTel Broadband Wireless LLC	\$93,000	\$1,309,919
CMA461	В	12	112,332		Columbia Cellular, Inc.	\$793,000	\$802,524
CMA462	В	12	26,757		Broadband Wireless Unlimited, LLC	\$15,000	\$15,180
CMA463	В	12	84,222		King Street Wireless, L.P.	\$970,000	\$981,650
CMA464	В	12	142,061		King Street Wireless, L.P.	\$1,043,000	\$1,055,527
CMA465	В	12	226,628		King Street Wireless, L.P.	\$1,186,000	\$1,200,244
CMA466	В	12	85,732		AT&T Mobility Spectrum, LLC	\$1,101,000	\$1,114,223
CMA467	В	12	29,846		King Street Wireless, L.P.	\$245,000	\$247,943
CMA468	В	12	470,726		AT&T Mobility Spectrum, LLC	\$5,783,000	\$5,852,456
CMA469	В	12	195,277		Cellco Partnership d/b/a Verizon Wireless	\$564,000	\$570,774
CMA470	В	12	71,535		Broadband Wireless Unlimited, LLC	\$140,000	\$141,681
CMA471	В	12	246,737		Triad 700, LLC	\$834,000	\$844,017
CMA472	В	12	202,821		NSIGHTTEL WIRELESS, LLC	\$956,000	\$967,482
CMA473	В	12	114,795		CenturyTel Broadband Wireless LLC	\$1,024,000	\$1,036,299
			•				

License	
Bandwidth	

		License				TT// 1 D11	177 · D.1
Market	Block	Bandwidth (MHz)	Danulation	MHz * Don	Winning Diddon	Winning Bid (2008 USD)	Winning Bid
CMA474	В	12	Population 174,862	MHz * Pop	Winning Bidder Agri-Valley Communications, Inc.	\$485,000	(2008 CAD) \$490,825
CMA474 CMA475	В	12	141,199		CenturyTel Broadband Wireless LLC	\$420,000	\$425,044
CMA476	В	12	169,410		CenturyTel Broadband Wireless LLC	\$435,000	\$440,225
CMA477	В	12	148,997		CenturyTel Broadband Wireless LLC	\$567,000	\$573,810
CMA478	В	12	255,329		Iowa Intelegra Consortium, LLC	\$232,000	\$234,786
CMA479	В	12	105,665		Iowa Intelegra Consortium, LLC	\$83,000	\$83,997
CMA480	В	12	304,730		AT&T Mobility Spectrum, LLC	\$3,389,000	\$3,429,703
CMA481	В	12	138,892		Agri-Valley Communications, Inc.	\$1,309,000	\$1,324,722
CMA482	В	12	49,661		Iowa Intelegra Consortium, LLC	\$18,000	\$18,216
CMA483	В	12	65,227		Paul Bunyan Rural Telephone Cooperative, Inc.	\$175,000	\$177,102
CMA484	В	12	58,347		AT&T Mobility Spectrum, LLC	\$319,000	\$322,831
CMA485	В	12	16,226		Dragon Arch, Inc.	\$81,000	\$81,973
CMA486	В	12	214,745		Sky Com 700 MHZ, LLC	\$2,227,000	\$2,253,747
CMA487	В	12	274,452		AT&T Mobility Spectrum, LLC	\$1,181,000	\$1,195,184
CMA488	В	12	174,114		Redwood Wireless Corp.	\$1,656,000	\$1,675,889
CMA489	В	12	67,816		Redwood Wireless Corp.	\$506,000	\$512,077
CMA490	В	12	133,637	1,603,644	Redwood Wireless Corp.	\$995,000	\$1,006,950
CMA491	В	12	240,003		Redwood Wireless Corp.	\$2,870,000	\$2,904,470
CMA492	В	12	212,896		Redwood Wireless Corp.	\$1,818,000	\$1,839,835
CMA493	В	12	183,347		AT&T Mobility Spectrum, LLC	\$1,651,000	\$1,670,829
CMA494	В	12	258,742	3,104,904	CenturyTel Broadband Wireless LLC	\$783,000	\$792,404
CMA495	В	12	160,230	1,922,760	CenturyTel Broadband Wireless LLC	\$168,000	\$170,018
CMA496	В	12	130,816		CenturyTel Broadband Wireless LLC	\$323,000	\$326,879
CMA497	В	12	160,830	1,929,960	CenturyTel Broadband Wireless LLC	\$164,000	\$165,970
CMA498	В	12	189,098	2,269,176	CenturyTel Broadband Wireless LLC	\$200,000	\$202,402
CMA499	В	12	188,499	2,261,988	CenturyTel Broadband Wireless LLC	\$178,000	\$180,138
CMA500	В	12	160,376	1,924,512	CenturyTel Broadband Wireless LLC	\$272,000	\$275,267
CMA501	В	12	124,367	1,492,404	CenturyTel Broadband Wireless LLC	\$110,000	\$111,321
CMA502	В	12	157,867	1,894,404	CenturyTel Broadband Wireless LLC	\$117,000	\$118,405
CMA503	В	12	204,876	2,458,512	Cellular South Licenses, Inc.	\$363,000	\$367,360
CMA504	В	12	42,936	515,232	King Street Wireless, L.P.	\$548,000	\$554,582
CMA505	В	12	35,481	425,772	King Street Wireless, L.P.	\$932,000	\$943,194
CMA506	В	12	56,401		King Street Wireless, L.P.	\$1,476,000	\$1,493,727
CMA507	В	12	72,404		AT&T Mobility Spectrum, LLC	\$2,748,000	\$2,781,004
CMA508	В	12	69,416		Chariton Valley Communication Corporation, Inc.	\$2,335,000	\$2,363,044
CMA509	В	12	91,430	1,097,160	CenturyTel Broadband Wireless LLC	\$1,542,000	\$1,560,520
CMA510	В	12	171,259	2,055,108	AT&T Mobility Spectrum, LLC	\$7,879,000	\$7,973,630
CMA511	В	12	116,371		AT&T Mobility Spectrum, LLC	\$6,187,000	\$6,261,308
CMA512	В	12	82,489		AT&T Mobility Spectrum, LLC	\$3,166,000	\$3,204,025
CMA513	В	12	105,824		King Street Wireless, L.P.	\$3,519,000	\$3,561,264
CMA514	В	12	157,501		AT&T Mobility Spectrum, LLC	\$1,267,000	\$1,282,217
CMA515	В	12	127,624		King Street Wireless, L.P.	\$3,903,000	\$3,949,876
CMA516	В	12	96,827		AT&T Mobility Spectrum, LLC	\$2,078,000	\$2,102,958
CMA517	В	12	111,359		CenturyTel Broadband Wireless LLC	\$1,657,000	\$1,676,901
CMA518	В	12	128,225		CenturyTel Broadband Wireless LLC	\$1,427,000	\$1,444,139
CMA519	В	12	104,516		CenturyTel Broadband Wireless LLC	\$1,501,000	\$1,519,028
CMA520	В	12	55,504		CenturyTel Broadband Wireless LLC	\$800,000	\$809,608
CMA521	В	12	123,913		King Street Wireless, L.P.	\$1,009,000	\$1,021,118
CMA522	В	12	197,383		King Street Wireless, L.P.	\$1,555,000	\$1,573,676
CMA523	В	12	156,158		CenturyTel Broadband Wireless LLC	\$2,587,000	\$2,618,071
CMA524	В	12	37,077		MTN3B Consortium	\$322,000	\$325,867
CMA525	В	12	13,555		MTN3B Consortium	\$146,000	\$147,754
CMA526	В	12	38,513		MTN3B Consortium Propose Compunications Inc.	\$489,000	\$494,873
CMA527 CMA528	В	12 12	201,482		Bresnan Communications, Inc. MTN3B Consortium	\$2,085,000 \$267,000	\$2,110,042
	B B	12	64,977				\$270,207 \$295,507
CMA529 CMA530	B B	12	29,729 99,578		Cellco Partnership d/b/a Verizon Wireless Cellco Partnership d/b/a Verizon Wireless	\$292,000 \$580,000	\$295,507 \$586,966
CMA530 CMA531	В	12	99,378 32,467		Cellco Partnership d/b/a Verizon Wireless	\$330,000	\$380,960
CMA531 CMA532	В	12	18,950		MTN3B Consortium	\$185,000	\$187,222
CIVIAJJZ	ט	12	10,730	221,400	MITTOD COMOTHUM	φ105,000	Φ107,222

L	icense

		License				**** * ***	**** * ***
Moultot	Dlook	Bandwidth	Danulation	MHa * Don	Winning Diddon	Winning Bid	Winning Bid
Market	Block	(MHz)	Population	MHz * Pop	Winning Bidder	(2008 USD)	(2008 CAD)
CMA533	В	12	90,410		Cellco Partnership d/b/a Verizon Wireless	\$787,000	\$796,452
CMA534	В	12	29,189		Cellco Partnership d/b/a Verizon Wireless	\$287,000	\$290,447
CMA535	В	12	117,334		King Street Wireless, L.P.	\$3,437,000	\$3,478,280
CMA536	В	12	34,344		King Street Wireless, L.P.	\$156,000	\$157,874
CMA537	В	12	149,780		King Street Wireless, L.P.	\$1,925,000	\$1,948,120
CMA538	В	12	113,331		Glenwood Telephone Membership, Corporation	\$1,214,000	\$1,228,581
CMA539	В	12	94,031		Cellco Partnership d/b/a Verizon Wireless	\$2,364,000	\$2,392,393
CMA540	В	12	56,542		Glenwood Telephone Membership, Corporation	\$313,000	\$316,759
CMA541	В	12	82,173		Cellco Partnership d/b/a Verizon Wireless	\$1,557,000	\$1,575,700
CMA542	В	12	87,405		King Street Wireless, L.P.	\$1,133,000	\$1,146,608
CMA543	В	12	46,781		Churchill County Telephone d/b/a CC Communications	\$210,000	\$212,522
CMA544	В	12	52,736		SAL Spectrum, LLC	\$126,000	\$127,513
CMA545	В	12	131,616		Cellco Partnership d/b/a Verizon Wireless	\$401,000	\$405,816
CMA546	В	12	38,527		Great American Broadband, Inc.	\$190,000	\$192,282
CMA547	В	12	13,346		WUE, Inc.	\$189,000	\$191,270
CMA548	В	12	229,137		King Street Wireless, L.P.	\$4,299,000	\$4,350,633
CMA549	В	12	236,216		King Street Wireless, L.P.	\$779,000	\$788,356
CMA550	В	12	121,989		QUALCOMM Incorporated	\$1,867,000	\$1,889,423
CMA551	В	12	510,916	6,130,992	Cellco Partnership d/b/a Verizon Wireless	\$7,178,000	\$7,264,210
CMA552	В	12	144,166	1,729,992	Cavalier Wireless, LLC	\$204,000	\$206,450
CMA553	В	12	285,363	3,424,356	AT&T Mobility Spectrum, LLC	\$2,010,000	\$2,034,141
CMA554	В	12	24,353	292,236	PCS Partners, L.P.	\$169,000	\$171,030
CMA555	В	12	101,043	1,212,516	PVT Networks, Inc.	\$506,000	\$512,077
CMA556	В	12	274,809	3,297,708	PVT Networks, Inc.	\$1,356,000	\$1,372,286
CMA557	В	12	61,950	743,400	Cellco Partnership d/b/a Verizon Wireless	\$690,000	\$698,287
CMA558	В	12	250,260	3,003,120	Cellco Partnership d/b/a Verizon Wireless	\$1,207,000	\$1,221,497
CMA559	В	12	250,613	3,007,356	King Street Wireless, L.P.	\$156,000	\$157,874
CMA560	В	12	230,331	2,763,972	King Street Wireless, L.P.	\$576,000	\$582,918
CMA561	В	12	476,152	5,713,824	AT&T Mobility Spectrum, LLC	\$4,248,000	\$4,299,020
CMA562	В	12	355,651	4,267,812	AT&T Mobility Spectrum, LLC	\$251,000	\$254,015
CMA563	В	12	393,028	4,716,336	Cavalier Wireless, LLC	\$918,000	\$929,026
CMA564	В	12	111,289	1,335,468	Broadband Wireless Unlimited, LLC	\$129,000	\$130,549
CMA565	В	12	200,333	2,403,996	Comporium Wireless, LLC	\$1,399,000	\$1,415,803
CMA566	В	12	170,738	2,048,856	FCC		
CMA567	В	12	171,912	2,062,944	King Street Wireless, L.P.	\$2,289,000	\$2,316,492
CMA568	В	12	372,614		AT&T Mobility Spectrum, LLC	\$2,367,000	\$2,395,429
CMA569	В	12	134,659		King Street Wireless, L.P.	\$181,000	\$183,174
CMA570	В	12	173,138	2,077,656	King Street Wireless, L.P.	\$275,000	\$278,303
CMA571	В	12	309,736		AT&T Mobility Spectrum, LLC	\$8,575,000	\$8,677,989
CMA572	В	12	296,296		AT&T Mobility Spectrum, LLC	\$12,393,000	\$12,541,845
CMA573	В	12	120,566		King Street Wireless, L.P.	\$285,000	\$288,423
CMA574	В	12	326,319		King Street Wireless, L.P.	\$9,804,000	\$9,921,750
CMA575	В	12	244,012	2,928,144	King Street Wireless, L.P.	\$1,721,000	\$1,741,670
CMA576	В	12	150,306	1,803,672	Star Telephone Membership Corporation	\$1,968,000	\$1,991,636
CMA577	В	12	252,756		King Street Wireless, L.P.	\$360,000	\$364,324
CMA578	В	12	258,014		King Street Wireless, L.P.	\$577,000	\$583,930
CMA579	В	12	476,998		AT&T Mobility Spectrum, LLC	\$11,916,000	\$12,059,116
CMA580	В	12	101,633		AT&T Mobility Spectrum, LLC	\$190,000	\$192,282
CMA581	В	12	58,222		Iowa Intelegra Consortium, LLC	\$91,000	\$92,093
CMA582	В	12	88,665		Red River Rural Telephone Association, Inc.	\$267,000	\$270,207
CMA583	В	12	61,696		KTC AWS Limited Partnership	\$630,000	\$637,567
CMA584	В	12	48,018		BEK Communications Cooperative	\$383,000	\$387,600
CMA585	В	12	128,191		Triad 700, LLC	\$331,000	\$334,975
CMA586	В	12	259,513		Bascom Long Distance, Inc.	\$925,000	\$936,110
CMA587	В	12	102,728		Triad 700, LLC	\$213,000	\$215,558
CMA588	В	12	229,057		Gold Radio Group, LLC	\$710,000	\$718,527
CMA589	В	12	239,331		Triad 700, LLC	\$468,000	\$473,621
CMA590	В	12	471,304		AT&T Mobility Spectrum, LLC	\$3,782,000	\$3,827,423
CMA591	В	12	261,385		Triad 700, LLC	\$416,000	\$420,996
01.11.1071	D	1 2	201,303	3,130,020		ψ-10,000	Ψ-20,220

License	
Bandwidth	

		License				**** * ***	177 · D.1
Market	Block	Bandwidth (MHz)	Population	MHz * Pop	Winning Diddon	Winning Bid (2008 USD)	Winning Bid
CMA592	В	12	179,466		Winning Bidder Cincinnati Bell Wireless LLC	\$201,000	(2008 CAD) \$203,414
CMA593	В	12	243,945		The Chillicothe Telephone Company	\$1,038,000	\$1,050,467
CMA594	В	12	175,317		Triad 700, LLC	\$432,000	\$437,188
CMA595	В	12	112,075		Triad 700, LLC	\$46,000	\$46,552
CMA596	В	12	29,112		Panhandle Telecommunication Systems, Inc.	\$435,000	\$440,225
CMA597	В	12	48,862		King Street Wireless, L.P.	\$999,000	\$1,010,998
CMA598	В	12	215,441		AT&T Mobility Spectrum, LLC	\$4,169,000	\$4,219,071
CMA599	В	12	208,345		Cellco Partnership d/b/a Verizon Wireless	\$3,769,000	\$3,814,267
CMA600	В	12	60,223		King Street Wireless, L.P.	\$704,000	\$712,455
CMA601	В	12	223,407		Cross Telephone Company, LLC	\$2,051,000	\$2,075,633
CMA602	В	12	126,544		King Street Wireless, L.P.	\$2,516,000	\$2,546,218
CMA603	В	12	94,340		King Street Wireless, L.P.	\$1,254,000	\$1,269,061
CMA604	В	12	209,569		King Street Wireless, L.P.	\$1,936,000	\$1,959,252
CMA605	В	12	83,895		Pine Cellular Phones, Inc.	\$1,235,000	\$1,249,833
CMA606	В	12	188,444		AT&T Mobility Spectrum, LLC	\$711,000	\$719,539
CMA607	В	12	79,602		King Street Wireless, L.P.	\$1,068,000	\$1,080,827
CMA608	В	12	158,595		Cellco Partnership d/b/a Verizon Wireless	\$911,000	\$921,941
CMA609	В	12	225,701	2,708,412	CenturyTel Broadband Wireless LLC	\$926,000	\$937,122
CMA610	В	12	260,041	3,120,492	King Street Wireless, L.P.	\$1,233,000	\$1,247,809
CMA611	В	12	213,355	2,560,260	Bend Cable Communications, LLC	\$6,745,000	\$6,826,010
CMA612	В	12	196,740	2,360,880	USA Choice Internet Services Company LLC	\$387,000	\$391,648
CMA613	В	12	87,022	1,044,264	Miller, David	\$32,000	\$32,384
CMA614	В	12	97,367	1,168,404	Miller, David	\$36,000	\$36,432
CMA615	В	12	97,397	1,168,764	Miller, David	\$36,000	\$36,432
CMA616	В	12	94,024	1,128,288	PCS Partners, L.P.	\$175,000	\$177,102
CMA617	В	12	382,883	4,594,596	Toba Inlet PCS, LLC	\$696,000	\$704,359
CMA618	В	12	218,919	2,627,028	MCBRIDE SPECTRUM PARTNERS, LLC	\$83,000	\$83,997
CMA619	В	12	406,449		AT&T Mobility Spectrum, LLC	\$4,744,000	\$4,800,977
CMA620	В	12	189,316	2,271,792	Cavalier Wireless, LLC	\$139,000	\$140,669
CMA621	В	12	193,558	2,322,696	King Street Wireless, L.P.	\$134,000	\$135,609
CMA622	В	12	114,893	1,378,716	Miller, David	\$55,000	\$55,661
CMA623	В	12	120,327	1,443,924	PCS Partners, L.P.	\$61,000	\$61,733
CMA624	В	12	85,433		Triad 700, LLC	\$360,000	\$364,324
CMA625	В	12	66,215		VentureTel 700, Inc.	\$26,000	\$26,312
CMA626	В	12	251,847		Piedmont Rural Telephone Cooperative, Inc.	\$418,000	\$423,020
CMA627	В	12	139,940		Chester Telephone Company	\$254,000	\$257,051
CMA628	В	12	222,349		Sandhill Communications, LLC	\$1,590,000	\$1,609,096
CMA629	В	12	287,892		AT&T Mobility Spectrum, LLC	\$5,930,000	\$6,001,221
CMA630	В	12	194,484	2,333,808			
CMA631	В	12	158,114		Cavalier Wireless, LLC	\$151,000	\$152,814
CMA632	В	12	201,265		AT&T Mobility Spectrum, LLC	\$4,363,000	\$4,415,401
CMA633	В	12	225,965		Comporium Wireless, LLC	\$951,000	\$962,422
CMA634	В	12	35,612		Cellco Partnership d/b/a Verizon Wireless	\$107,000	\$108,285
CMA635	В	12	23,121		Iowa Intelegra Consortium, LLC KTC AWS Limited Partnership	\$43,000	\$43,516
CMA636	В	12 12	52,825 68,784		-	\$296,000	\$299,555
CMA637 CMA638	В				AT&T Mobility Spectrum, LLC	\$658,000	\$665,903 \$251,001
CMA639	В	12 12	27,194 38,915		N.E. Colorado Wireless Technologies, Inc.	\$249,000	\$251,991
CMA640	В	12			N.E. Colorado Wireless Technologies, Inc. Iowa Intelegra Consortium, LLC	\$116,000	\$117,393
CMA641	B B	12	67,747 74,488		AT&T Mobility Spectrum, LLC	\$105,000 \$340,000	\$106,261 \$344,084
CMA642	В	12	105,059		AT&T Mobility Spectrum, LLC AT&T Mobility Spectrum, LLC	\$1,183,000	\$1,197,208
CMA643	В	12	317,877		AT&T Mobility Spectrum, LLC AT&T Mobility Spectrum, LLC	\$1,079,000	\$1,091,959
CMA644	В	12	177,193		AT&T Mobility Spectrum, LLC	\$378,000	\$382,540
CMA645	В	12	366,706		AT&T Mobility Spectrum, LLC	\$3,124,000	\$3,161,520
CMA646	В	12	290,725		AT&T Mobility Spectrum, LLC	\$3,633,000	\$3,676,634
CMA647	В	12	369,630		AT&T Mobility Spectrum, LLC	\$2,511,000	\$2,541,158
CMA648	В	12	170,150		Cellular South Licenses, Inc.	\$193,000	\$195,318
CMA649	В	12	282,930		AT&T Mobility Spectrum, LLC	\$3,164,000	\$3,202,001
CMA650	В	12	17,499		Broadband Wireless Unlimited, LLC	\$35,000	\$35,420
	_		,.,,			455,000	,

License	
Bandwidth	

		License				****	**** * ***
Market	Block	Bandwidth	Danulation	MUz * Don	Winning Piddon	Winning Bid (2008 USD)	Winning Bid
CMA651	В	(MHz)	Population 69,498	MHz * Pop	Winning Bidder Miller, David	\$43,000	(2008 CAD) \$43,516
CMA652	В	12	55,812		SAL Spectrum, LLC	\$75,000	\$75,901
CMA653	В	12	89,253		Cellco Partnership d/b/a Verizon Wireless	\$587,000	\$594,050
CMA654	В	12	137,663		Miller, David	\$204,000	\$206,450
CMA655	В	12	41,975		Miller, David	\$42,000	\$42,504
CMA656	В	12	77,084		King Street Wireless, L.P.	\$540,000	\$546,486
CMA657	В	12	91,269		Cellco Partnership d/b/a Verizon Wireless	\$402,000	\$406,828
CMA658	В	12	392,672		AT&T Mobility Spectrum, LLC	\$2,088,000	\$2,113,078
CMA659	В	12	134,426		Central Texas Telephone Investments, LP	\$557,000	\$563,690
CMA660	В	12	193,442		Central Texas Telephone Investments, LP	\$763,000	\$772,164
CMA661	В	12	335,717		AT&T Mobility Spectrum, LLC	\$732,000	\$740,792
CMA662	В	12	300,759		AT&T Mobility Spectrum, LLC	\$1,846,000	\$1,868,171
CMA663	В	12	24,696		Spectrum Acquisitions, Inc.	\$238,000	\$240,858
CMA664	В	12	31,027		C&W Enterprises, Inc.	\$45,000	\$45,540
CMA665	В	12	41,757		Central Texas Telephone Investments, LP	\$192,000	\$194,306
CMA666	В	12	194,504		Central Texas Telephone Investments, LP	\$995,000	\$1,006,950
CMA667	В	12	349,585	4,195,020	Worldcall Inc.	\$648,000	\$655,783
CMA668	В	12	270,140	3,241,680	AT&T Mobility Spectrum, LLC	\$1,140,000	\$1,153,692
CMA669	В	12	227,582	2,730,984	Cellco Partnership d/b/a Verizon Wireless	\$940,000	\$951,290
CMA670	В	12	235,315	2,823,780	Cellco Partnership d/b/a Verizon Wireless	\$316,000	\$319,795
CMA671	В	12	158,126	1,897,512	AT&T Mobility Spectrum, LLC	\$260,000	\$263,123
CMA672	В	12	26,031	312,372	AT&T Mobility Spectrum, LLC	\$673,000	\$681,083
CMA673	В	12	136,097	1,633,164	Cellco Partnership d/b/a Verizon Wireless	\$474,000	\$479,693
CMA674	В	12	52,080	624,960	AT&T Mobility Spectrum, LLC	\$997,000	\$1,008,974
CMA675	В	12	62,248	746,976	Manti Telephone Company	\$400,000	\$404,804
CMA676	В	12	130,138	1,561,656	Cellco Partnership d/b/a Verizon Wireless	\$593,000	\$600,122
CMA677	В	12	80,283	963,396	Cellco Partnership d/b/a Verizon Wireless	\$2,133,000	\$2,158,618
CMA678	В	12	29,138	349,656	Cellco Partnership d/b/a Verizon Wireless	\$331,000	\$334,975
CMA679	В	12	217,353	2,608,236	King Street Wireless, L.P.	\$1,029,000	\$1,041,359
CMA680	В	12	238,002	2,856,024	King Street Wireless, L.P.	\$9,082,000	\$9,191,078
CMA681	В	12	141,297	1,695,564	FCC		
CMA682	В	12	136,903		King Street Wireless, L.P.	\$519,000	\$525,233
CMA683	В	12	213,798		King Street Wireless, L.P.	\$758,000	\$767,104
CMA684	В	12	187,302		King Street Wireless, L.P.	\$462,000	\$467,549
CMA685	В	12	62,590		King Street Wireless, L.P.	\$143,000	\$144,717
CMA686	В	12	234,162		King Street Wireless, L.P.	\$287,000	\$290,447
CMA687	В	12	94,187		Buggs Island Telephone Cooperative	\$615,000	\$622,386
CMA688	В	12	91,070		Buggs Island Telephone Cooperative	\$252,000	\$255,027
CMA689	В	12	92,114		Buggs Island Telephone Cooperative	\$265,000	\$268,183
CMA690	В	12	247,404		Cellco Partnership d/b/a Verizon Wireless	\$645,000	\$652,747
CMA691	В	12	300,410		AT&T Mobility Spectrum, LLC	\$690,000	\$698,287
CMA692	В	12	188,579		Cox Wireless, Inc.	\$619,000 \$6,529,000	\$626,434
CMA693	В	12 12	279,092		AT&T Mobility Spectrum, LLC	\$1,057,000	\$6,607,416 \$1,069,695
CMA694 CMA695	B B	12	138,783 59,058		Cellco Partnership d/b/a Verizon Wireless Whidbey Telephone Company	\$348,000	\$352,180
CMA696	В	12	116,599		Whidbey Telephone Company Whidbey Telephone Company	\$792,000	\$801,512
CMA697	В	12	134,672		Cellco Partnership d/b/a Verizon Wireless	\$1,448,000	\$1,465,391
CMA698	В	12	186,356		AT&T Mobility Spectrum, LLC	\$1,478,000	\$1,495,751
CMA699	В	12	29,033		King Street Wireless, L.P.	\$159,000	\$160,910
CMA700	В	12	122,932		Cellco Partnership d/b/a Verizon Wireless	\$1,241,000	\$1,255,905
CMA701	В	12	76,985		King Street Wireless, L.P.	\$174,000	\$176,090
CMA702	В	12	76,624		King Street Wireless, L.P.	\$150,000	\$151,802
CMA703	В	12	268,096		King Street Wireless, L.P.	\$511,000	\$517,137
CMA704	В	12	185,405		King Street Wireless, L.P.	\$658,000	\$665,903
CMA705	В	12	129,431		King Street Wireless, L.P.	\$292,000	\$295,507
CMA706	В	12	166,643		King Street Wireless, L.P.	\$1,044,000	\$1,056,539
CMA707	В	12	251,814		King Street Wireless, L.P.	\$553,000	\$559,642
CMA708	В	12	117,992		King Street Wireless, L.P.	\$5,043,000	\$5,103,568
CMA709	В	12	86,105		King Street Wireless, L.P.	\$3,609,000	\$3,652,345
			,	,,	<u> </u>	, ,	. , ,

License	
Bandwidth	

		License				****	**** · ***
Market	Block	Bandwidth (MHz)		MHz * Pop	Winning Diddon	Winning Bid (2008 USD)	Winning Bid (2008 CAD)
CMA710	В	12	Population 142,982		Winning Bidder King Street Wireless, L.P.	\$3,704,000	\$3,748,486
CMA711	В	12	124,244		King Street Wireless, L.P.	\$5,761,000	\$5,830,192
CMA712	В	12	97,679		AT&T Mobility Spectrum, LLC	\$7,633,000	\$7,724,675
CMA713	В	12	120,566		King Street Wireless, L.P.	\$6,278,000	\$6,353,401
CMA714	В	12	295,518		AT&T Mobility Spectrum, LLC	\$7,942,000	\$8,037,386
CMA715	В	12	240,609		King Street Wireless, L.P.	\$6,011,000	\$6,083,194
CMA716	В	12	403,441		AT&T Mobility Spectrum, LLC	\$21,187,000	\$21,441,464
CMA717	В	12	131,035		King Street Wireless, L.P.	\$2,252,000	\$2,279,047
CMA718	В	12	50,418		Union Telephone Company	\$588,000	\$595,062
CMA719	В	12	79,864		Cellco Partnership d/b/a Verizon Wireless	\$1,539,000	\$1,557,484
CMA720	В	12	147,542		Manti Telephone Company	\$2,027,000	\$2,051,345
CMA721	В	12	137,373		AT&T Mobility Spectrum, LLC	\$1,867,000	\$1,889,423
CMA722	В	12	12,052		Great American Broadband, Inc.	\$94,000	\$95,129
CMA723	В	12	14,767		maxima international llc	\$95,000	\$96,141
CMA724	В	12	285,531	· · · · · · · · · · · · · · · · · · ·	VentureTel 700, Inc.	\$134,000	\$135,609
CMA725	В	12	126,274		VentureTel 700, Inc.	\$38,000	\$38,456
CMA726	В	12	270,223		Worldcall Inc.	\$134,000	\$135,609
CMA727	В	12	41,757		Worldcall Inc.	\$112,000	\$113,345
CMA728	В	12	9,106	*	Dragon Arch, Inc.	\$91,000	\$92,093
CMA729	В	12	1,868		Worldcall Inc.	\$81,000	\$81,973
CMA730	В	12	55,378	•	Worldcall Inc.	\$303,000	\$306,639
CMA731	В	12	53,234		Worldcall Inc.	\$240,000	\$242,882
CMA732	В	12	154,805	*	Choice Phone LLC	\$933,000	\$944,206
CMA733	В	12	57,291	, ,	Club 42 CM Limited Partnership	\$21,000	\$21,252
CMA734	В	12	69,221		Choice Phone LLC	\$70,000	\$70,841
NWA511	D	10	285,620,445		QUALCOMM Incorporated (public safety block)	. ,	
REA001	C	22	50,058,090		Cellco Partnership d/b/a Verizon Wireless	\$502,774,000	\$508,812,502
REA002	C	22	49,676,946	1,092,892,812	Cellco Partnership d/b/a Verizon Wireless	\$424,224,000	\$429,319,087
REA003	C	22	58,178,304		Cellco Partnership d/b/a Verizon Wireless	\$1,109,715,000	\$1,123,043,088
REA004	C	22	31,326,973	689,193,406	Cellco Partnership d/b/a Verizon Wireless	\$1,625,930,000	\$1,645,458,022
REA005	C	22	40,343,960	887,567,120	Cellco Partnership d/b/a Verizon Wireless	\$723,228,000	\$731,914,236
REA006	C	22	49,999,164	1,099,981,608	Cellco Partnership d/b/a Verizon Wireless	\$319,798,000	\$323,638,893
REA007	C	22	626,932	13,792,504	Triad 700, LLC	\$1,783,000	\$1,804,414
REA008	C	22	1,211,537	26,653,814	Cellco Partnership d/b/a Verizon Wireless	\$36,138,000	\$36,572,031
REA009	C	22	224,026	4,928,572			
REA010	C	22	3,917,222	86,178,884	Triad 700, LLC	\$3,124,000	\$3,161,520
REA011	C	22	57,291	1,260,402			
REA012	C	22			Small Ventures USA, L.P.	\$1,055,000	\$1,067,671
REAGs 9 & 11	C	22	281,317	6,188,974	Club 42 CM Limited Partnership	\$550,000	\$556,606

Appendix A **Spectrum Auction Data** Norway 2.5 GHz Auction 2008

License
Randwidth

				License					
				Bandwidth				Winning Bid	_
	Upper (MHz)		Block	(MHz)	Population	MHz * Pop	Winning Bidder	(2008 USD)	(2008 CAD)
2010	2025	Unpaired	A	15	1,987,893		Inquam Broadband GmbH	\$66,503	\$67,301
2500 / 2620	2505 / 2625	Paired	C1	10	1,987,893		Hafslund Telekom AS	\$857,533	\$867,832
2505 / 2625	2510 / 2630	Paired	C2	10	1,987,893		NetCom AS	\$847,192	\$857,367
2510 / 2630	2515 / 2635	Paired	C3	10	1,987,893		NetCom AS	\$742,188	\$751,102
2515 / 2635	2520 / 2640	Paired	C4	10	1,987,893		NetCom AS	\$895,716	\$906,474
2520 / 2640	2525 / 2645	Paired	C5	10	1,987,893		Telenor ASA	\$862,306	\$872,663
2525 / 2645	2530 / 2650	Paired	C6	10	1,987,893		Telenor ASA	\$503,542	\$509,590
2530 / 2650	2535 / 2655	Paired	C7	10	1,987,893		Telenor ASA	\$1,203,569	\$1,218,025
2535 / 2655	2540 / 2660	Paired	C8	10	1,987,893		Telenor ASA	\$1,203,569	\$1,218,025
2540	2550	Unpaired	D1	10	1,987,893		Telenor ASA	\$1,201,183	\$1,215,609
2550	2560	Unpaired	D2	10	1,987,893		Telenor ASA	\$1,174,136	\$1,188,238
2560	2570	Unpaired	D3	10	1,987,893		Hafslund Telekom AS	\$1,174,932	\$1,189,043
2570	2580	Unpaired	B1	10	1,987,893		Craig Wireless Systems Ltd.	\$1,127,203	\$1,140,741
2580	2590	Unpaired	B2	10	1,987,893		Craig Wireless Systems Ltd.	\$1,082,655	\$1,095,659
2590	2600	Unpaired	B3	10	1,987,893		Craig Wireless Systems Ltd.	\$1,491,535	\$1,509,449
2600	2610	Unpaired	B4	10	1,987,893		Craig Wireless Systems Ltd.	\$1,666,542	\$1,686,557
2610	2620	Unpaired	B5	10	1,987,893		Craig Wireless Systems Ltd.	\$1,008,198	\$1,020,307
2660	2670	Unpaired	E1	10	1,987,893		Telenor ASA	\$1,153,454	\$1,167,307
2670	2680	Unpaired	E2	10	1,987,893	, ,	Telenor ASA	\$1,280,731	\$1,296,113
2680	2690	Unpaired	E3	10	1,987,893		Hafslund Telekom AS	\$1,427,896	\$1,445,046
2010 2500 / 2620	2025	Unpaired	A C1	15	684,761		Inquam Broadband GmbH	\$22,910	\$23,185
	2505 / 2625	Paired Paired	C1 C2	10 10	684,761		NetCom AS	\$125,687	\$127,196 \$215,575
2505 / 2625 2510 / 2630	2510 / 2630 2515 / 2635	Paired	C2 C3	10	684,761 684,761		NetCom AS NetCom AS	\$311,830 \$178,189	\$315,575 \$180,329
2510 / 2635	2520 / 2640	Paired	C3 C4	10	684,761		NetCom AS	\$310,239	\$313,965
2520 / 2640	2525 / 2645	Paired	C5	10	684,761		Telenor ASA	\$288,761	\$292,229
2525 / 2645	2530 / 2650	Paired	C6	10	684,761		Telenor ASA	\$116,141	\$117,536
2530 / 2650	2535 / 2655	Paired	C7	10	684,761		Telenor ASA	\$110,141	\$117,530
2535 / 2655	2540 / 2660	Paired	C8	10	684,761		Telenor ASA	\$116,372	\$117,536
2540	2550	Unpaired	D1	10	684,761		Telenor ASA	\$329,331	\$333,286
2550	2560	Unpaired	D1 D2	10	684,761		Telenor ASA	\$232,282	\$235,071
2560	2570	Unpaired	D3	10	684,761		Hafslund Telekom AS	\$264,101	\$267,273
2570	2580	Unpaired	B1	10	684,761		Craig Wireless Systems Ltd.	\$244,214	\$247,147
2580	2590	Unpaired	B2	10	684,761		Craig Wireless Systems Ltd. Craig Wireless Systems Ltd.	\$482,064	\$487,854
2590	2600	Unpaired	B3	10	684,761		Craig Wireless Systems Ltd.	\$473,314	\$478,998
2600	2610	Unpaired	B4	10	684,761		Craig Wireless Systems Ltd.	\$324,558	\$328,456
2610	2620	Unpaired	B5	10	684,761		Craig Wireless Systems Ltd.	\$243,737	\$246,664
2660	2670	Unpaired	E1	10	684,761		Telenor ASA	\$297,512	\$301,085
2670	2680	Unpaired	E2	10	684,761		Telenor ASA	\$283,988	\$287,399
2680	2690	Unpaired	E3	10	684,761		Not Assigned	Ψ203,700	Ψ201,377
2010	2025	Unpaired	A	15	815,705		Inquam Broadband GmbH	\$275,238	\$278,544
2500 / 2620	2505 / 2625	Paired	C1	10	815,705		NetCom AS	\$148,756	\$150,542
2505 / 2625	2510 / 2630	Paired	C2	10	815,705		NetCom AS	\$338,081	\$342,142
2510 / 2630	2515 / 2635	Paired	C3	10	815,705		NetCom AS	\$206,031	\$208,505
2515 / 2635	2520 / 2640	Paired	C4	10	815,705		NetCom AS	\$320,581	\$324,431
2520 / 2640	2525 / 2645	Paired	C5	10	815,705		Telenor ASA	\$317,399	\$321,211
2525 / 2645	2530 / 2650	Paired	C6	10	815,705		Telenor ASA	\$124,891	\$126,391
2530 / 2650	2535 / 2655	Paired	C7	10	815,705		Telenor ASA	\$142,392	\$144,102
2535 / 2655	2540 / 2660	Paired	C8	10	815,705		Telenor ASA	\$136,028	\$137,662
2540	2550	Unpaired	D1	10	815,705		Telenor ASA	\$293,534	\$297,060
2550	2560	Unpaired	D2	10	815,705		Telenor ASA	\$280,806	\$284,179
2560	2570	Unpaired	D3	10	815,705		Arctic Wireless AS	\$83,526	\$84,529
2570	2580	Unpaired	B1	10	815,705		Craig Wireless Systems Ltd.	\$287,170	\$290,619
2580	2590	Unpaired	B2	10	815,705		Craig Wireless Systems Ltd.	\$294,330	\$297,865
					•	, ,	•	,	,

Spectrum Auction Data Norway 2.5 GHz Auction 2008

License
Bandwidth

				License					
				Bandwidth				_	Winning Bid
	Upper (MHz)		Block	(MHz)	Population	MHz * Pop	Winning Bidder	(2008 USD)	(2008 CAD)
2590	2600	Unpaired	В3	10	815,705		Craig Wireless Systems Ltd.	\$294,330	\$297,865
2600	2610	Unpaired	B4	10	815,705		Craig Wireless Systems Ltd.	\$294,330	
2610	2620	Unpaired	B5	10	815,705		Craig Wireless Systems Ltd.	\$161,484	
2660	2670	Unpaired	E1	10	815,705		Telenor ASA	\$199,667	\$202,065
2670	2680	Unpaired	E2	10	815,705		Telenor ASA	\$195,689	\$198,040
2680	2690	Unpaired	E3	10	815,705		Not Assigned	412 7 60	010 50 0
2010	2025	Unpaired	A	15	372,926		Inquam Broadband GmbH	\$12,569	\$12,720
2500 / 2620	2505 / 2625	Paired	C1	10	372,926		NetCom AS	\$73,185	\$74,064
2505 / 2625	2510 / 2630	Paired	C2	10	372,926	, , , , , , , , , , , , , , , , , , ,	NetCom AS	\$160,688	\$162,618
2510 / 2630	2515 / 2635	Paired	C3	10	372,926		NetCom AS	\$98,640	\$99,825
2515 / 2635	2520 / 2640	Paired	C4	10	372,926		NetCom AS	\$155,915	
2520 / 2640	2525 / 2645	Paired	C5	10	372,926		Telenor ASA	\$153,529	\$155,373
2525 / 2645	2530 / 2650	Paired	C6	10	372,926		Telenor ASA	\$64,434	
2530 / 2650	2535 / 2655	Paired	C7	10	372,926		Telenor ASA	\$64,434	
2535 / 2655	2540 / 2660	Paired	C8	10	372,926		Telenor ASA	\$61,252	
2540	2550	Unpaired	D1	10	372,926		Telenor ASA	\$165,461	\$167,448
2550	2560	Unpaired	D2	10	372,926		Telenor ASA	\$130,460	\$132,026
2560	2570	Unpaired	D3	10	372,926		Hafslund Telekom AS	\$60,457	\$61,183
2570	2580	Unpaired	B1	10	372,926		Craig Wireless Systems Ltd.	\$136,823	\$138,467
2580	2590	Unpaired	B2	10	372,926		Craig Wireless Systems Ltd.	\$130,460	
2590	2600	Unpaired	В3	10	372,926		Craig Wireless Systems Ltd.	\$133,642	
2600	2610	Unpaired	B4	10	372,926		Craig Wireless Systems Ltd.	\$162,279	\$164,228
2610	2620	Unpaired	B5	10	372,926		Craig Wireless Systems Ltd.	\$134,119	\$135,730
2660	2670	Unpaired	E1	10	372,926		Telenor ASA	\$150,347	\$152,152
2670	2680	Unpaired	E2	10	372,926		Telenor ASA	\$156,711	\$158,593
2680	2690	Unpaired	E3	10	372,926		NetCom AS	\$46,138	\$46,692
2010	2025	Unpaired	Α	15	412,849		Inquam Broadband GmbH	\$13,841	\$14,008
2500 / 2620	2505 / 2625	Paired	C1	10	412,849		NetCom AS	\$77,958	
2505 / 2625	2510 / 2630	Paired	C2	10	412,849		NetCom AS	\$164,665	\$166,643
2510 / 2630	2515 / 2635	Paired	C3	10	412,849		NetCom AS	\$102,618	
2515 / 2635	2520 / 2640	Paired	C4	10	412,849		NetCom AS	\$159,893	\$161,813
2520 / 2640	2525 / 2645	Paired	C5	10	412,849		Telenor ASA	\$157,506	
2525 / 2645	2530 / 2650	Paired	C6	10	412,849		Telenor ASA	\$78,753	\$79,699
2530 / 2650	2535 / 2655	Paired	C7	10	412,849		Telenor ASA	\$69,207	\$70,038
2535 / 2655	2540 / 2660	Paired	C8	10	412,849	, -,	Telenor ASA	\$69,207	\$70,038
2540	2550	Unpaired	D1	10	412,849		Telenor ASA	\$141,596	
2550	2560	Unpaired	D2	10	412,849		Telenor ASA	\$132,051	\$133,637
2560	2570	Unpaired	D3	10	412,849		Arctic Wireless AS	\$44,547	\$45,082
2570	2580	Unpaired	B1	10	412,849		Craig Wireless Systems Ltd.	\$138,414	
2580	2590	Unpaired			412,849		Craig Wireless Systems Ltd.	\$141,596	
2590	2600	Unpaired			412,849		Craig Wireless Systems Ltd.	\$141,596	
2600	2610	Unpaired	B4	10	412,849		Craig Wireless Systems Ltd.	\$141,596	
2610	2620	Unpaired	B5	10	412,849		Craig Wireless Systems Ltd.	\$78,753	\$79,699
2660	2670	Unpaired	E1	10	412,849		Telenor ASA	\$97,049	\$98,215
2670	2680	Unpaired	E2	10	412,849		Telenor ASA	\$77,958	\$78,894
2680	2690	Unpaired	E3	10	412,849		Not Assigned		
2010	2025	Unpaired	A	15	462,037		Inquam Broadband GmbH	\$15,751	\$15,940
2500 / 2620	2505 / 2625	Paired	C1	10	462,037		NetCom AS	\$82,730	\$83,724
2505 / 2625	2510 / 2630	Paired	C2	10	462,037		NetCom AS	\$182,166	
2510 / 2630	2515 / 2635	Paired	C3	10	462,037	4,620,370	NetCom AS	\$108,981	\$110,290
2515 / 2635	2520 / 2640	Paired	C4	10	462,037	4,620,370	NetCom AS	\$171,029	\$173,083
2520 / 2640	2525 / 2645	Paired	C5	10	462,037	4,620,370	Telenor ASA	\$166,256	\$168,253
2520 / 2640	2323 / 2043								
2525 / 2645	2530 / 2650	Paired	C6	10	462,037	4,620,370	Telenor ASA	\$75,571	\$76,479
			C6 C7	10 10	462,037 462,037		Telenor ASA Telenor ASA	\$75,571 \$75,571	\$76,479 \$76,479

Spectrum Auction Data Norway 2.5 GHz Auction 2008

L	i	ce	r	S	se	

				Bandwidth	1			Winning Bid	Winning Bid
Lower (MHz)	Upper (MHz)	Paired	Block	(MHz)	Population	MHz * Pop	Winning Bidder	(2008 USD)	(2008 CAD)
2540	2550	Unpaired	D1	10	462,037	4,620,370	Telenor ASA	\$166,256	\$168,253
2550	2560	Unpaired	D2	10	462,037	4,620,370	Telenor ASA	\$151,938	\$153,763
2560	2570	Unpaired	D3	10	462,037	4,620,370	Arctic Wireless AS	\$46,934	\$47,497
2570	2580	Unpaired	B1	10	462,037	4,620,370	Craig Wireless Systems Ltd.	\$155,120	\$156,983
2580	2590	Unpaired	B2	10	462,037	4,620,370	Craig Wireless Systems Ltd.	\$155,120	\$156,983
2590	2600	Unpaired	В3	10	462,037	4,620,370	Craig Wireless Systems Ltd.	\$151,142	\$152,957
2600	2610	Unpaired	B4	10	462,037	4,620,370	Craig Wireless Systems Ltd.	\$155,120	\$156,983
2610	2620	Unpaired	B5	10	462,037	4,620,370	Craig Wireless Systems Ltd.	\$85,753	\$86,783
2660	2670	Unpaired	E1	10	462,037	4,620,370	Telenor ASA	\$108,981	\$110,290
2670	2680	Unpaired	E2	10	462,037	4,620,370	Telenor ASA	\$70,003	\$70,843
2680	2690	Unpaired	E3	10	462,037	4,620,370	NetCom AS	\$46,934	\$47,497

Appendix A Spectrum Auction Data Sweden 2.6 GHz Auction 2008

|--|

	Bandwidtl	1			Winning Bid	Winning Bid
Block	(MHz)	Population	MHz * Pop	Winning Bidder	(2008 USD)	(2008 CAD)
FDD1	10	9,182,927	91,829,270	Tele2 Sverige AB	\$9,898,260	\$10,017,142
FDD2	10	9,182,927	91,829,270	Tele2 Sverige AB	\$24,745,650	\$25,042,854
FDD3	10	9,182,927	91,829,270	Tele2 Sverige AB	\$31,485,420	\$31,863,572
FDD4	10	9,182,927	91,829,270	Tele2 Sverige AB	\$24,745,650	\$25,042,854
FDD5	10	9,182,927	91,829,270	HI3G Access AB	\$24,248,250	\$24,539,480
FDD6	10	9,182,927	91,829,270	HI3G Access AB	\$24,928,030	\$25,227,425
FDD7	10	9,182,927	91,829,270	TeliaSonera Mobile Networks AB	\$23,750,850	\$24,036,107
FDD8	10	9,182,927	91,829,270	TeliaSonera Mobile Networks AB	\$22,797,500	\$23,071,306
FDD9	10	9,182,927	91,829,270	TeliaSonera Mobile Networks AB	\$23,560,180	\$23,843,146
FDD10	10	9,182,927	91,829,270	TeliaSonera Mobile Networks AB	\$23,145,680	\$23,423,668
FDD11	10	9,182,927	91,829,270	Telenor Sverige AB	\$23,460,700	\$23,742,472
FDD12	10	9,182,927	91,829,270	Telenor Sverige AB	\$22,441,030	\$22,710,555
FDD13	10	9,182,927	91,829,270	Telenor Sverige AB	\$25,442,010	\$25,747,578
FDD14	10	9,182,927	91,829,270	Telenor Sverige AB	\$17,035,950	\$17,240,558
TDD1	50	9,182,927	459,146,350	Intel Capital Corporation	\$26,403,650	\$26,720,768

Appendix B: Predicted License Values—Linear Model

Actual and Predicted Auction Values for the Industry Canada 2008 AWS Auction Linear Regression Using Data from the 2006 FCC AWS Auction

2008 USD

2008 CAD

Estimated Model: Winning Bid = 0.7466129 * (Mhz * Population)

Adjusted R-Squared: 84.53%

Set		Bandwidth				2008 C	,,,,,,	2008 C	
Aside	Block	(Mhz)	Winning Bidder	Population	MHz * Pop	Actual Winning Bid	Predicted Value	Actual Winning Bid	Predicted Value
1	201b	20	Bragg Communications Inc.	513,282	10,265,640	\$750,988	\$7,664,459	\$760,000	\$7,756,512
1	201c	10	Bragg Communications Inc.	513,282	5,132,820	\$434,783	\$3,832,230	\$440,000	\$3,878,256
0	201g	10	Globalive Wireless LP	513,282	5,132,820	\$556,324	\$3,832,230	\$563,000	\$3,878,256
1	202b	20	Bragg Communications Inc.	1,043,232	20,864,640	\$3,003,953	\$15,577,809	\$3,040,000	\$15,764,904
1	202c	10	Bragg Communications Inc.	1,043,232	10,432,320	\$1,650,198	\$7,788,904	\$1,670,000	\$7,882,452
0	202g	10	Blue Canada Wireless Inc.	1,043,232	10,432,320	\$1,138,834	\$7,788,904	\$1,152,500	\$7,882,452
1	203b	20	Bragg Communications Inc.	728,997	14,579,940	\$1,462,451	\$10,885,571	\$1,480,000	\$11,016,311
1 0	203c 203i	10 5	Globalive Wireless LP	728,997 728,997	7,289,970 3,644,985	\$1,699,605 \$475,296	\$5,442,786 \$2,721,393	\$1,720,000 \$481,000	\$5,508,155 \$2,754,078
1	204b	20	Bragg Communications Inc. 9193-2962 Québec Inc.	1,590,736	31,814,720	\$7,015,810	\$23,753,280	\$7,100,000	\$24,038,566
1	204c	10	9193-2962 Québec Inc.	1,590,736	15,907,360	\$3,063,241	\$11,876,640		\$12,019,283
0	204g	10	6934579 Canada Inc.	1,590,736	15,907,360	\$2,588,933	\$11,876,640		\$12,019,283
0	204i	5	Bell Mobility Inc.	1,590,736	7,953,680	\$802,372	\$5,938,320	\$812,000	\$6,009,641
1	205b	20	9193-2962 Québec Inc.	5,151,224	103,000,000	\$166,000,000	\$76,919,403	\$168,000,000	\$77,843,234
1	205c	10	9193-2962 Québec Inc.	5,151,224	51,512,240	\$110,700,000	\$38,459,702	\$112,000,000	\$38,921,617
0	205g	10	6934579 Canada Inc.	5,151,224	51,512,240	\$16,007,905	\$38,459,702	\$16,200,000	\$38,921,617
1	206b	20	9193-2962 Québec Inc.	2,122,177	42,443,540	\$51,284,585	\$31,688,894	\$51,900,000	\$32,069,489
1	206c	10	Data & Audio-Visual Enterprises Wireless Inc.	2,122,177	21,221,770	\$30,039,526	\$15,844,447	\$30,400,000	\$16,034,745
0	206g	10	6934579 Canada Inc.	2,122,177	21,221,770	\$8,389,328	\$15,844,447	\$8,490,000	\$16,034,745
1	207b	20	9193-2962 Québec Inc.	187,081	3,741,620	\$173,913	\$2,793,542	\$176,000	\$2,827,093
1	207c	10	9193-2962 Québec Inc.	187,081	1,870,810	\$351,779	\$1,396,771	\$356,000	\$1,413,547
0	207g	10	Globalive Wireless LP	187,081	1,870,810	\$257,905	\$1,396,771	\$261,000	\$1,413,547
0	207i	5	Globalive Wireless LP	187,081	935,405	\$121,542	\$698,385	\$123,000	\$706,773
1 1	208b 208c	20 10	Globalive Wireless LP Data & Audio-Visual Enterprises Wireless Inc.	8,811,117 8,811,117	176,200,000 88,111,170	\$275,700,000 \$129,400,000	\$131,600,000 \$65,784,934	\$279,000,000 \$131,000,000	\$133,180,565 \$66,575,035
0	208g	10	6934579 Canada Inc.	8,811,117	88,111,170	\$24,777,744	\$65,784,934	\$25,075,077	\$66,575,035
1	200g 209b	20	Bragg Communications Inc.	785,481	15,709,620	\$2,697,629	\$11,729,005	\$2,730,000	\$11,869,875
1	209c	10	Globalive Wireless LP	785,481	7,854,810	\$1,482,213	\$5,864,502	\$1,500,000	\$5,934,937
0	209i	5	Globalive Wireless LP	785,481	3,927,405	\$376,482	\$2,932,251	\$381,000	\$2,967,469
1	210b	20	6934242 Canada Ltd.	1,118,283	22,365,660	\$38,537,549	\$16,698,490	\$39,000,000	\$16,899,045
1	210c	10	1380057 Alberta Ltd.	1,118,283	11,182,830	\$13,636,364	\$8,349,245	\$13,800,000	\$8,449,522
0	210g	10	6934242 Canada Ltd.	1,118,283	11,182,830	\$1,168,478	\$8,349,245	\$1,182,500	\$8,449,522
0	210i	5	6934242 Canada Ltd.	1,118,283	5,591,415	\$584,239	\$4,174,622	\$591,250	\$4,224,761
1	211b	20	SaskTel	975,717	19,514,340	\$39,920,949	\$14,569,658		\$14,744,645
1	211c	10	SaskTel	975,717	9,757,170	\$23,913,043	\$7,284,829	\$24,200,000	\$7,372,322
0	211g	10	SaskTel	975,717	9,757,170	\$1,077,075	\$7,284,829	\$1,090,000	\$7,372,322
1	212b	20	1380057 Alberta Ltd.	2,979,436	59,588,720	\$32,312,253	\$44,489,706		\$45,024,044
1 0	212c 212g	10 10	Globalive Wireless LP	2,979,436	29,794,360	\$17,885,375	\$22,244,853	\$18,100,000	\$22,512,022
1	212g 213b	20	Novus Wireless Inc. 1380057 Alberta Ltd.	2,979,436 3,907,624	29,794,360 78,152,480	\$8,063,241 \$99,802,372	\$22,244,853 \$58,349,648	\$8,160,000 \$101,000,000	\$22,512,022 \$59,050,449
1	213c	10	Globalive Wireless LP	3,907,624	39,076,240	\$66,600,791	\$29,174,824	\$67,400,000	\$29,525,224
0	213g	10	Novus Wireless Inc.	3,907,624	39,076,240	\$9,624,506	\$29,174,824	\$9,740,000	\$29,525,224
1	214b	20	Globalive Wireless LP	92,707	1,854,140	\$181,818	\$1,384,325	\$184,000	\$1,400,951
1	214c	10	Globalive Wireless LP	92,707	927,070	\$102,767	\$692,162	\$104,000	\$700,476
0	214g	10	Globalive Wireless LP	92,707	927,070	\$145,257	\$692,162	\$147,000	\$700,476
0	214i	5	Bell Mobility Inc.	92,707	463,535	\$136,364	\$346,081	\$138,000	\$350,238
0	301a	20	Rogers Communications Inc.	513,282	10,265,640	\$6,304,348	\$7,664,459	\$6,380,000	\$7,756,512
1	301d	10	Globalive Wireless LP	513,282	5,132,820	\$375,494	\$3,832,230	\$380,000	\$3,878,256
0	301e	10	TELUS Communications Company	513,282	5,132,820	\$3,300,395	\$3,832,230		\$3,878,256
0	301f	20	Bell Mobility Inc.	513,282	10,265,640	\$6,304,348	\$7,664,459	\$6,380,000	\$7,756,512
0	302a	20	Rogers Communications Inc.	135,294	2,705,880	\$2,519,763	\$2,020,245	\$2,550,000	\$2,044,509
1 0	302d	10	Globalive Wireless LP TELUS Communications Company	135,294	1,352,940	\$287,549	\$1,010,122	\$291,000 \$1,870,000	\$1,022,254
0	302e 302f	10 20	Bell Mobility Inc.	135,294 135,294	1,352,940 2,705,880	\$1,847,826 \$2,598,814	\$1,010,122 \$2,020,245	\$2,630,000	\$1,022,254 \$2,044,509
0	303a	20	Bell Mobility Inc.	760,894	15,217,880	\$15,019,763	\$11,361,865	\$15,200,000	\$11,498,325
1	303d	10	Globalive Wireless LP	760,894	7,608,940	\$935,771	\$5,680,933	\$947,000	\$5,749,163
0	303e	10	TELUS Communications Company	760,894	7,608,940	\$7,154,150	\$5,680,933	\$7,240,000	\$5,749,163
0	303f	20	Rogers Communications Inc.	760,894	15,217,880	\$15,118,577	\$11,361,865	\$15,300,000	\$11,498,325
0	304a	20	Rogers Communications Inc.	147,044	2,940,880	\$3,577,075	\$2,195,699	\$3,620,000	\$2,222,070
1	304d	10	Globalive Wireless LP	147,044	1,470,440	\$285,573	\$1,097,849	\$289,000	\$1,111,035
0	304e	10	TELUS Communications Company	147,044	1,470,440	\$1,946,640	\$1,097,849	\$1,970,000	\$1,111,035
0	304f	20	Bell Mobility Inc.	147,044	2,940,880	\$3,833,992	\$2,195,699	\$3,880,000	\$2,222,070
0	305a	20	Rogers Communications Inc.	167,343	3,346,860	\$2,677,866	\$2,498,809	\$2,710,000	\$2,528,820
1	305d	10	Bragg Communications Inc.	167,343	1,673,430	\$591,897	\$1,249,404	\$599,000	\$1,264,410
0	305e	10	TELUS Communications Company	167,343	1,673,430	\$2,272,727	\$1,249,404	\$2,300,000	\$1,264,410
0	305f	20	Bell Mobility Inc.	167,343	3,346,860	\$3,023,715	\$2,498,809	\$3,060,000	\$2,528,820
0 1	306a 306d	20 10	Rogers Communications Inc. Bragg Communications Inc.	209,227 209,227	4,184,540	\$3,171,937 \$601,779	\$3,124,231 \$1,562,116	\$3,210,000 \$609,000	\$3,161,755 \$1,580,877
1	300 u	10	Diags Communications IIIC.	209,221	2,092,270	\$001,779	φ1,502,110	\$007,000	ψ1,500,077

Actual and Predicted Auction Values for the Industry Canada 2008 AWS Auction Linear Regression Using Data from the 2006 FCC AWS Auction

2008 USD

2008 CAD

Estimated Model: Winning Bid = 0.7466129 * (Mhz * Population)

Adjusted R-Squared: 84.53%

a .						2008 USD		2008 CAD	
Set Aside	Block	Bandwidth (Mhz)	Winning Bidder	Population	MHz * Pon	Actual Winning Rid	Predicted Value	Actual Winning Bid	Predicted Value
0	306e	10	TELUS Communications Company	209,227	2,092,270	\$2,697,629	\$1,562,116		\$1,580,877
0	306f	20	Bell Mobility Inc.	209,227	4,184,540	\$3,537,549	\$3,124,231	\$3,580,000	\$3,161,755
0	307a	20	Rogers Communications Inc.	352,427	7,048,540	\$4,752,964	\$5,262,531	\$4,810,000	\$5,325,736
1	307d	10	Bragg Communications Inc.	352,427	3,524,270	\$964,427	\$2,631,265	\$976,000	\$2,662,868
0	307e	10	TELUS Communications Company	352,427	3,524,270	\$4,041,502	\$2,631,265	\$4,090,000	\$2,662,868
0	307f	20	Bell Mobility Inc.	352,427	7,048,540	\$5,059,289	\$5,262,531	\$5,120,000	\$5,325,736
0	308a	20	Rogers Communications Inc.	298,273	5,965,460	\$2,252,964	\$4,453,889	\$2,280,000	\$4,507,382
1	308d	10	9193-2962 Québec Inc.	298,273	2,982,730	\$975,296	\$2,226,945	\$987,000	\$2,253,691
0	308e	10	Bell Mobility Inc.	298,273	2,982,730	\$1,541,502	\$2,226,945		\$2,253,691
0	308f	20	TELUS Communications Company	298,273	5,965,460	\$2,450,593	\$4,453,889	\$2,480,000	\$4,507,382
0	309a	20	Rogers Communications Inc.	917,873	18,357,460	\$34,387,352	\$13,705,916		\$13,870,529
1	309d	10	9193-2962 Québec Inc.	917,873	9,178,730	\$2,450,593	\$6,852,958		\$6,935,265
0	309e	10	Bell Mobility Inc. TELUS Communications Company	917,873	9,178,730	\$14,328,063	\$6,852,958		\$6,935,265
0	309f 310a	20 20	Rogers Communications Inc.	917,873 374,590	18,357,460 7,491,800	\$34,486,166 \$4,525,692	\$13,705,916 \$5,593,474	\$34,900,000 \$4,580,000	\$13,870,529 \$5,660,654
1	310a 310d	10	9193-2962 Québec Inc.	374,590	3,745,900	\$545,455	\$2,796,737		\$2,830,327
0	310a	10	Bell Mobility Inc.	374,590	3,745,900	\$1,936,759	\$2,796,737		\$2,830,327
0	310f	20	TELUS Communications Company	374,590	7,491,800	\$4,397,233	\$5,593,474	\$4,450,000	\$5,660,654
0	311a	20	Rogers Communications Inc.	509,717	10,194,340	\$9,288,538	\$7,611,226		\$7,702,639
1	311d	10	9193-2962 Québec Inc.	509,717	5,097,170	\$3,547,431	\$3,805,613	\$3,590,000	\$3,851,320
0	311e	10	9193-2962 Québec Inc.	509,717	5,097,170	\$5,128,459	\$3,805,613		\$3,851,320
0	311f	20	TELUS Communications Company	509,717	10,194,340	\$10,375,494	\$7,611,226		\$7,702,639
0	312a	20	Rogers Communications Inc.	749,812	14,996,240	\$21,047,431	\$11,196,386		\$11,330,859
1	312d	10	9193-2962 Québec Inc.	749,812	7,498,120	\$5,187,747	\$5,598,193	\$5,250,000	\$5,665,429
0	312e	10	Bell Mobility Inc.	749,812	7,498,120	\$9,456,522	\$5,598,193	\$9,570,000	\$5,665,429
0	312f	20	TELUS Communications Company	749,812	14,996,240	\$21,640,316	\$11,196,386	\$21,900,000	\$11,330,859
0	313a	20	Rogers Communications Inc.	3,784,570	75,691,400	\$189,700,000	\$56,512,174	\$192,000,000	\$57,190,906
1	313d	10	9193-2962 Québec Inc.	3,784,570	37,845,700	\$95,454,545	\$28,256,087	\$96,600,000	\$28,595,453
0	313e	10	Bell Mobility Inc.	3,784,570	37,845,700	\$126,500,000	\$28,256,087	\$128,000,000	\$28,595,453
0	313f	20	TELUS Communications Company	3,784,570	75,691,400	\$231,200,000	\$56,512,174		\$57,190,906
0	314a	20	Rogers Communications Inc.	107,125	2,142,500	\$1,156,127	\$1,599,618		\$1,618,830
1	314d	10	9193-2962 Québec Inc.	107,125	1,071,250	\$505,929	\$799,809		\$809,415
0	314e	10	Bell Mobility Inc.	107,125	1,071,250	\$670,949	\$799,809		\$809,415
0	314f 315a	20 20	TELUS Communications Company Rogers Communications Inc.	107,125 1,265,237	2,142,500	\$1,185,771	\$1,599,618		\$1,618,830
1	315d	10	Globalive Wireless LP	1,265,237	25,304,740 12,652,370	\$45,948,617 \$26,778,656	\$18,892,845 \$9,446,422		\$19,119,755 \$9,559,877
0	315d	10	Bell Mobility Inc.	1,265,237	12,652,370	\$32,806,324	\$9,446,422		\$9,559,877
0	315f	20	TELUS Communications Company	1,265,237	25,304,740	\$44,071,146	\$18,892,845		\$19,119,755
0	316a	20	Rogers Communications Inc.	108,154	2,163,080	\$1,571,146	\$1,614,983		\$1,634,380
1	316d	10	Globalive Wireless LP	108,154	1,081,540	\$1,314,229	\$807,492		\$817,190
0	316e	10	Bell Mobility Inc.	108,154	1,081,540	\$1,650,198	\$807,492		\$817,190
0	316f	20	TELUS Communications Company	108,154	2,163,080	\$1,699,605	\$1,614,983	\$1,720,000	\$1,634,380
0	317a	20	Rogers Communications Inc.	187,081	3,741,620	\$2,164,032	\$2,793,542	\$2,190,000	\$2,827,093
1	317d	10	9193-2962 Québec Inc.	187,081	1,870,810	\$351,779	\$1,396,771	\$356,000	\$1,413,547
0	317e	10	TELUS Communications Company	187,081	1,870,810	\$1,254,941	\$1,396,771	\$1,270,000	\$1,413,547
0	317f	20	Bell Mobility Inc.	187,081	3,741,620	\$2,075,099	\$2,793,542	\$2,100,000	\$2,827,093
0	318a	20	Rogers Communications Inc.	65,921	1,318,420	\$1,551,383	\$984,349		\$996,172
1	318d	10	Globalive Wireless LP	65,921	659,210	\$1,452,569	\$492,175		\$498,086
0	318e	10	TELUS Communications Company	65,921	659,210	\$1,758,893	\$492,175		\$498,086
0	318f	20	Bell Mobility Inc.	65,921	1,318,420	\$1,511,858	\$984,349		\$996,172
0	319a	20	Rogers Communications Inc.	82,869	1,657,380	\$1,709,486	\$1,237,421	\$1,730,000	\$1,252,283
1	319d	10	Globalive Wireless LP	82,869	828,690	\$1,541,502	\$618,711	\$1,560,000	\$626,142
0	319e	10	TELUS Communications Company	82,869	828,690	\$1,640,316	\$618,711	\$1,660,000	\$626,142
0	319f	20	Bell Mobility Inc.	82,869	1,657,380	\$1,739,130	\$1,237,421	\$1,760,000	\$1,252,283
0 1	320a 320d	20 10	Rogers Communications Inc. Globalive Wireless LP	162,711 162,711	3,254,220 1,627,110	\$2,618,577 \$1,077,075	\$2,429,643 \$1,214,821	\$2,650,000 \$1,090,000	\$2,458,824 \$1,229,412
0	320d 320e	10	TELUS Communications Company	162,711	1,627,110	\$1,689,723	\$1,214,821	\$1,710,000	\$1,229,412
0	320f	20	Bell Mobility Inc.	162,711	3,254,220	\$2,500,000	\$2,429,643		\$2,458,824
0	321a	20	Rogers Communications Inc.	184,594	3,691,880	\$2,954,546	\$2,756,405		\$2,789,511
1	321d	10	Globalive Wireless LP	184,594	1,845,940	\$1,007,905	\$1,378,203	\$1,020,000	\$1,394,755
0	321e	10	TELUS Communications Company	184,594	1,845,940	\$1,768,775	\$1,378,203		\$1,394,755
0	321f	20	Bell Mobility Inc.	184,594	3,691,880	\$2,806,324	\$2,756,405		\$2,789,511
0	322a	20	Rogers Communications Inc.	59,699	1,193,980	\$1,818,182	\$891,441	\$1,840,000	\$902,147
1	322d	10	Globalive Wireless LP	59,699	596,990	\$1,393,281	\$445,720		\$451,074
0	322e	10	TELUS Communications Company	59,699	596,990	\$1,482,213	\$445,720		\$451,074
0	322f	20	Bell Mobility Inc.	59,699	1,193,980	\$1,699,605	\$891,441	\$1,720,000	\$902,147
0	323a	20	Rogers Communications Inc.	192,992	3,859,840	\$2,727,273	\$2,881,806	\$2,760,000	\$2,916,418
1	323d	10	Globalive Wireless LP	192,992	1,929,920	\$894,269	\$1,440,903	\$905,000	\$1,458,209

Actual and Predicted Auction Values for the Industry Canada 2008 AWS Auction Linear Regression Using Data from the 2006 FCC AWS Auction

2008 USD

2008 CAD

Estimated Model: Winning Bid = 0.7466129 * (Mhz * Population)

Adjusted R-Squared: 84.53%

a .						2008 USD		2008 CAD	
Set Aside	Block	Bandwidth (Mhz)	Winning Bidder	Population	MHz * Don	Actual Winning Rid	Prodicted Volue	Actual Winning Bid	Predicted Value
0	323e	10	TELUS Communications Company	192,992	1,929,920	\$1,106,719	\$1,440,903	\$1,120,000	\$1,458,209
0	323f	20	Bell Mobility Inc.	192,992	3,859,840	\$2,658,103	\$2,881,806	\$2,690,000	\$2,916,418
0	324a	20	Rogers Communications Inc.	72,322	1,446,440	\$1,136,364	\$1,079,931	\$1,150,000	\$1,092,901
1	324d	10	Rich Telecom Corp.	72,322	723,220	\$497,036	\$539,965	\$503,000	\$546,451
0	324e	10	TELUS Communications Company	72,322	723,220	\$683,794	\$539,965	\$692,000	\$546,451
0	324f	20	Bell Mobility Inc.	72,322	1,446,440	\$1,472,332	\$1,079,931	\$1,490,000	\$1,092,901
0	325a	20	Rogers Communications Inc.	5,635,827	112,700,000	\$232,200,000	\$84,155,620	\$235,000,000	\$85,166,360
1	325d	10	9193-2962 Québec Inc.	5,635,827	56,358,270	\$95,256,917	\$42,077,810	\$96,400,000	\$42,583,180
0	325e 325f	10 20	TELUS Communications Company Bell Mobility Inc.	5,635,827 5,635,827	56,358,270 112,700,000	\$101,800,000 \$310,300,000	\$42,077,810 \$84,155,620	\$103,000,000 \$314,000,000	\$42,583,180 \$85,166,360
0	326a	20	Rogers Communications Inc.	591,338	11,826,760	\$9,871,542	\$8,830,011	\$9,990,000	\$8,936,063
1	326d	10	Bragg Communications Inc.	591,338	5,913,380	\$2,608,696	\$4,415,006	\$2,640,000	\$4,468,032
0	326e	10	TELUS Communications Company	591,338	5,913,380	\$4,911,067	\$4,415,006	\$4,970,000	\$4,468,032
0	326f	20	Bell Mobility Inc.	591,338	11,826,760	\$14,624,506	\$8,830,011	\$14,800,000	\$8,936,063
0	327a	20	Rogers Communications Inc.	607,035	12,140,700	\$7,411,067	\$9,064,403	\$7,500,000	\$9,173,270
1	327d	10	Data & Audio-Visual Enterprises Wireless Inc.	607,035	6,070,350	\$2,569,170	\$4,532,202	\$2,600,000	\$4,586,635
0	327e	10	TELUS Communications Company	607,035	6,070,350	\$5,049,407	\$4,532,202	\$5,110,000	\$4,586,635
0	327f	20 20	Bell Mobility Inc.	607,035	12,140,700	\$15,019,763	\$9,064,403	\$15,200,000	\$9,173,270
0 1	328a 328d	20 10	Rogers Communications Inc. Bragg Communications Inc.	133,987 133,987	2,679,740 1,339,870	\$1,719,368 \$871,542	\$2,000,728 \$1,000,364	\$1,740,000 \$882,000	\$2,024,758 \$1,012,379
0	328e	10	TELUS Communications Company	133,987	1,339,870	\$1,215,415	\$1,000,364	\$1,230,000	\$1,012,379
0	328f	20	Bell Mobility Inc.	133,987	2,679,740	\$3,320,158	\$2,000,728	\$3,360,000	\$2,024,758
0	329a	20	Rogers Communications Inc.	354,971	7,099,420	\$9,328,063	\$5,300,518	\$9,440,000	\$5,364,180
1	329d	10	Data & Audio-Visual Enterprises Wireless Inc.	354,971	3,549,710	\$1,363,636	\$2,650,259	\$1,380,000	\$2,682,090
0	329e	10	TELUS Communications Company	354,971	3,549,710	\$2,806,324	\$2,650,259	\$2,840,000	\$2,682,090
0	329f	20	Bell Mobility Inc.	354,971	7,099,420	\$9,446,640	\$5,300,518	\$9,560,000	\$5,364,180
0	330a	20	Rogers Communications Inc.	765,656	15,313,120	\$20,849,802	\$11,432,973	\$21,100,000	\$11,570,287
1 0	330d 330e	10 10	Bragg Communications Inc. Bell Mobility Inc.	765,656 765,656	7,656,560 7,656,560	\$4,308,300 \$4,861,660	\$5,716,486 \$5,716,486	\$4,360,000 \$4,920,000	\$5,785,143 \$5,785,143
0	330f	20	TELUS Communications Company	765,656	15,313,120	\$20,948,617	\$11,432,973	\$21,200,000	\$11,570,287
0	331a	20	Rogers Communications Inc.	107,029	2,140,580	\$1,116,601	\$1,598,185	\$1,130,000	\$1,617,379
1	331d	10	Celluworld Inc.	107,029	1,070,290	\$920,949	\$799,092	\$932,000	\$808,690
0	331e	10	Bell Mobility Inc.	107,029	1,070,290	\$837,945	\$799,092	\$848,000	\$808,690
0	331f	20	TELUS Communications Company	107,029	2,140,580	\$2,213,439	\$1,598,185	\$2,240,000	\$1,617,379
0	332a	20	Rogers Communications Inc.	376,213	7,524,260	\$4,318,182	\$5,617,709	\$4,370,000	\$5,685,180
1	332d	10	Data & Audio-Visual Enterprises Wireless Inc.	376,213	3,762,130	\$1,561,265	\$2,808,855	\$1,580,000	\$2,842,590
0	332e 332f	10 20	Bell Mobility Inc. TELUS Communications Company	376,213 376,213	3,762,130 7,524,260	\$3,211,463 \$5,701,581	\$2,808,855 \$5,617,709	\$3,250,000 \$5,770,000	\$2,842,590 \$5,685,180
0	333a	20	Rogers Communications Inc.	166,739	3,334,780	\$2,065,217	\$2,489,790	\$2,090,000	\$2,519,693
1	333d	10	Bragg Communications Inc.	166,739	1,667,390	\$730,237	\$1,244,895	\$739,000	\$1,259,846
0	333e	10	TELUS Communications Company	166,739	1,667,390	\$1,699,605	\$1,244,895	\$1,720,000	\$1,259,846
0	333f	20	Bell Mobility Inc.	166,739	3,334,780	\$3,428,854	\$2,489,790	\$3,470,000	\$2,519,693
0	334a	20	Rogers Communications Inc.	122,253	2,445,060	\$1,067,194	\$1,825,513	\$1,080,000	\$1,847,438
1	334d	10	Bragg Communications Inc.	122,253	1,222,530	\$537,549	\$912,757	\$544,000	\$923,719
0	334e	10	TELUS Communications Company	122,253	1,222,530	\$679,842	\$912,757	\$688,000	\$923,719
0	334f 335a	20 20	Bell Mobility Inc. Rogers Communications Inc.	122,253 135,482	2,445,060 2,709,640	\$1,007,905 \$2,005,929	\$1,825,513 \$2,023,052	\$1,020,000 \$2,030,000	\$1,847,438 \$2,047,350
1	335d	10	1380057 Alberta Ltd.	135,482	1,354,820	\$430,830	\$1,011,526	\$436,000	\$1,023,675
0	335e	10	TELUS Communications Company	135,482	1,354,820	\$1,373,518	\$1,011,526	\$1,390,000	\$1,023,675
0	335f	20	Bell Mobility Inc.	135,482	2,709,640	\$2,114,625	\$2,023,052	\$2,140,000	\$2,047,350
0	336a	20	Rogers Communications Inc.	172,605	3,452,100	\$3,181,818	\$2,577,382	\$3,220,000	\$2,608,338
1	336d	10	Bragg Communications Inc.	172,605	1,726,050	\$795,455	\$1,288,691	\$805,000	\$1,304,169
0	336e	10	TELUS Communications Company	172,605	1,726,050	\$2,025,692	\$1,288,691	\$2,050,000	\$1,304,169
0	336f	20	Bell Mobility Inc.	172,605	3,452,100	\$3,310,277 \$1,749,012	\$2,577,382	\$3,350,000	\$2,608,338
1	337a 337d	20 10	Rogers Communications Inc. Bragg Communications Inc.	120,308 120,308	2,406,160 1,203,080	\$507,905	\$1,796,470 \$898,235	\$1,770,000 \$514,000	\$1,818,046 \$909,023
0	337e	10	TELUS Communications Company	120,308	1,203,080	\$976,285	\$898,235	\$988,000	\$909,023
0	337f	20	Bell Mobility Inc.	120,308	2,406,160	\$1,749,012	\$1,796,470	\$1,770,000	\$1,818,046
0	338a	20	Rogers Communications Inc.	234,833	4,696,660	\$2,658,103	\$3,506,587	\$2,690,000	\$3,548,702
1	338d	10	1380057 Alberta Ltd.	234,833	2,348,330	\$792,490	\$1,753,293	\$802,000	\$1,774,351
0	338e	10	TELUS Communications Company	234,833	2,348,330	\$2,391,304	\$1,753,293	\$2,420,000	\$1,774,351
0	338f	20	Bell Mobility Inc.	234,833	4,696,660	\$3,053,360	\$3,506,587	\$3,090,000	\$3,548,702
0	339a	20	Rogers Communications Inc.	945,818	18,916,360	\$34,486,166	\$14,123,198	\$34,900,000	\$14,292,823
1	339d 339e	10 10	Globalive Wireless LP 1380057 Alberta Ltd.	945,818 945,818	9,458,180 9,458,180	\$13,339,921 \$14,920,949	\$7,061,599 \$7,061,599	\$13,500,000 \$15,100,000	\$7,146,411 \$7,146,411
0	339f	20	TELUS Communications Company	945,818	18,916,360	\$34,486,166	\$14,123,198	\$34,900,000	\$14,292,823
0	340a	20	Rogers Communications Inc.	172,465	3,449,300	\$1,768,775	\$2,575,292	\$1,790,000	\$2,606,222
1	340d	10	Globalive Wireless LP	172,465	1,724,650	\$763,834	\$1,287,646	\$773,000	\$1,303,111

Actual and Predicted Auction Values for the Industry Canada 2008 AWS Auction Linear Regression Using Data from the 2006 FCC AWS Auction

2008 USD

2008 CAD

Estimated Model: Winning Bid = 0.7466129 * (Mhz * Population)

Adjusted R-Squared: 84.53%

G 4		B 1 111				2008 USD		2008 CAD	
Set Aside	Block	Bandwidth (Mhz)	Winning Bidder	Population	MHz * Pop	Actual Winning Rid	Predicted Volue	Actual Winning Bid	Predicted Volue
0	340e	10	1380057 Alberta Ltd.	172,465	1,724,650	\$1,581,028	\$1,287,646		\$1,303,111
0	340f	20	TELUS Communications Company	172,465	3,449,300	\$1,907,115	\$2,575,292		\$2,606,222
0	341a	20	Rogers Communications Inc.	349,538	6,990,760	\$16,897,233	\$5,219,391	\$17,100,000	\$5,282,078
1	341d	10	1380057 Alberta Ltd.	349,538	3,495,380	\$4,911,067	\$2,609,696		\$2,641,039
0	341e	10	Globalive Wireless LP	349,538	3,495,380	\$5,691,700	\$2,609,696		\$2,641,039
0	341f	20	TELUS Communications Company	349,538	6,990,760	\$17,984,190	\$5,219,391	\$18,200,000	\$5,282,078
0	342a	20	Rogers Communications Inc.	104,297	2,085,940	\$4,387,352	\$1,557,390	\$4,440,000	\$1,576,095
1	342d	10	1380057 Alberta Ltd.	104,297	1,042,970	\$2,401,186	\$778,695	\$2,430,000	\$788,047
0	342e	10	Globalive Wireless LP	104,297	1,042,970	\$2,658,103	\$778,695	\$2,690,000	\$788,047
0	342f	20	TELUS Communications Company	104,297	2,085,940	\$4,377,470	\$1,557,390	\$4,430,000	\$1,576,095
0	343a	20	TELUS Communications Company	521,882	10,437,640	\$31,126,482	\$7,792,876	\$31,500,000	\$7,886,472
1	343d	10	1380057 Alberta Ltd.	521,882	5,218,820	\$12,549,407	\$3,896,438	\$12,700,000	\$3,943,236
0	343e	10	Globalive Wireless LP	521,882	5,218,820	\$11,857,708	\$3,896,438	\$12,000,000	\$3,943,236
0	343f	20	Rogers Communications Inc.	521,882	10,437,640	\$31,126,482	\$7,792,876	\$31,500,000	\$7,886,472
0	344a	20	Rogers Communications Inc.	1,199,124	23,982,480	\$34,980,237	\$17,905,628		\$18,120,681
1	344d	10	Data & Audio-Visual Enterprises Wireless Inc.	1,199,124	11,991,240	\$8,883,399	\$8,952,814	\$8,990,000	\$9,060,341
0	344e	10	Bell Mobility Inc.	1,199,124	11,991,240	\$18,972,332	\$8,952,814	\$19,200,000	\$9,060,341
0	344f	20	TELUS Communications Company	1,199,124	23,982,480	\$36,264,822	\$17,905,628		\$18,120,681
0	345a	20	Rogers Communications Inc.	175,718	3,514,360	\$1,452,569	\$2,623,866		\$2,655,380
1	345d	10	1380057 Alberta Ltd.	175,718	1,757,180	\$564,229	\$1,311,933	\$571,000	\$1,327,690
0	345e	10	Bell Mobility Inc.	175,718	1,757,180	\$855,731	\$1,311,933	\$866,000	\$1,327,690
0	345f	20	TELUS Communications Company	175,718	3,514,360	\$1,650,198	\$2,623,866		\$2,655,380
0 1	346a	20	Rogers Communications Inc.	156,171	3,123,420	\$1,897,233	\$2,331,986		\$2,359,994
0	346d 346e	10 10	1380057 Alberta Ltd. Bell Mobility Inc.	156,171	1,561,710 1,561,710	\$467,391 \$858,696	\$1,165,993	\$473,000 \$869,000	\$1,179,997 \$1,179,997
0	346f	20	TELUS Communications Company	156,171 156,171	3,123,420	\$1,897,233	\$1,165,993 \$2,331,986		\$2,359,994
0	347a	20	Rogers Communications Inc.	1,091,673	21,833,460	\$53,458,498	\$16,301,142		\$16,496,925
1	347d	10	Data & Audio-Visual Enterprises Wireless Inc.	1,091,673	10,916,730	\$8,290,514	\$8,150,571	\$8,390,000	\$8,248,463
0	347e	10	Bell Mobility Inc.	1,091,673	10,916,730	\$16,501,976	\$8,150,571	\$16,700,000	\$8,248,463
0	347f	20	TELUS Communications Company	1,091,673	21,833,460	\$56,719,368	\$16,301,142	\$57,400,000	\$16,496,925
0	348a	20	Rogers Communications Inc.	198,479	3,969,580	\$2,193,676	\$2,963,740	\$2,220,000	\$2,999,335
1	348d	10	Data & Audio-Visual Enterprises Wireless Inc.	198,479	1,984,790	\$661,067	\$1,481,870		\$1,499,668
0	348e	10	Bell Mobility Inc.	198,479	1,984,790	\$1,007,905	\$1,481,870		\$1,499,668
0	348f	20	TELUS Communications Company	198,479	3,969,580	\$2,450,593	\$2,963,740	\$2,480,000	\$2,999,335
0	349a	20	Rogers Communications Inc.	158,271	3,165,420	\$3,577,075	\$2,363,343	\$3,620,000	\$2,391,728
1	349d	10	Bragg Communications Inc.	158,271	1,582,710	\$236,166	\$1,181,672	\$239,000	\$1,195,864
0	349e	10	Bragg Communications Inc.	158,271	1,582,710	\$2,094,862	\$1,181,672	\$2,120,000	\$1,195,864
0	349f	20	TELUS Communications Company	158,271	3,165,420	\$3,537,549	\$2,363,343	\$3,580,000	\$2,391,728
0	350a	20	Rogers Communications Inc.	132,914	2,658,280	\$1,324,111	\$1,984,706	\$1,340,000	\$2,008,543
1	350d	10	1380057 Alberta Ltd.	132,914	1,329,140	\$258,893	\$992,353	\$262,000	\$1,004,272
0	350e	10	Bell Mobility Inc.	132,914	1,329,140	\$788,538	\$992,353	\$798,000	\$1,004,272
0	350f	20	TELUS Communications Company	132,914	2,658,280	\$1,333,992	\$1,984,706	\$1,350,000	\$2,008,543
0	351a	20	Rogers Communications Inc.	368,647	7,372,940	\$5,098,814	\$5,504,732	\$5,160,000	\$5,570,846
1	351d	10	1380057 Alberta Ltd.	368,647	3,686,470	\$747,036	\$2,752,366	\$756,000	\$2,785,423
0	351e	10	Bell Mobility Inc.	368,647	3,686,470	\$1,986,166	\$2,752,366	\$2,010,000	\$2,785,423
0	351f	20	TELUS Communications Company	368,647	7,372,940	\$5,098,814	\$5,504,732		\$5,570,846
0	352a	20	Rogers Communications Inc.	2,310,047	46,200,940	\$115,600,000	\$34,494,217	\$117,000,000	\$34,908,505
1	352d	10	Data & Audio-Visual Enterprises Wireless Inc.	2,310,047	23,100,470	\$55,731,225	\$17,247,108	\$56,400,000	\$17,454,252
0	352e	10	Bell Mobility Inc.	2,310,047	23,100,470	\$61,363,636	\$17,247,108		\$17,454,252
0	352f 353a	20 20	TELUS Communications Company Rogers Communications Inc.	2,310,047	46,200,940	\$115,600,000 \$5,602,767	\$34,494,217 \$5,812,337	\$117,000,000 \$5,670,000	\$34,908,505 \$5,882,145
1	353d	10	Data & Audio-Visual Enterprises Wireless Inc.	389,247 389,247	7,784,940	\$1,729,249			\$2,941,072
0	353u 353e	10	Bell Mobility Inc.	389,247	3,892,470 3,892,470	\$2,766,798	\$2,906,168 \$2,906,168		\$2,941,072
0	353f	20	TELUS Communications Company	389,247	7,784,940	\$5,988,142	\$5,812,337	\$6,060,000	\$5,882,145
0	354a	20	Rogers Communications Inc.	165,741	3,314,820	\$1,986,166	\$2,474,887	\$2,010,000	\$2,504,612
1	354d	10	1380057 Alberta Ltd.	165,741	1,657,410	\$552,372	\$1,237,444	\$559,000	\$1,252,306
0	354e	10	Bell Mobility Inc.	165,741	1,657,410	\$986,166	\$1,237,444	\$998,000	\$1,252,306
0	354f	20	TELUS Communications Company	165,741	3,314,820	\$2,173,913	\$2,474,887	\$2,200,000	\$2,504,612
0	355a	20	Rogers Communications Inc.	106,015	2,120,300	\$1,067,194	\$1,583,043	\$1,080,000	\$1,602,056
1	355d	10	1380057 Alberta Ltd.	106,015	1,060,150	\$206,522	\$791,522		\$801,028
0	355e	10	Bell Mobility Inc.	106,015	1,060,150	\$654,150	\$791,522		\$801,028
0	355f	20	TELUS Communications Company	106,015	2,120,300	\$1,146,245	\$1,583,043		\$1,602,056
0	356a	20	Rogers Communications Inc.	174,289	3,485,780	\$2,134,387	\$2,602,528		\$2,633,786
1	356d	10	1380057 Alberta Ltd.	174,289	1,742,890	\$582,016	\$1,301,264	\$589,000	\$1,316,893
0	356e	10	Bell Mobility Inc.	174,289	1,742,890	\$980,237	\$1,301,264	\$992,000	\$1,316,893
0	356f	20	TELUS Communications Company	174,289	3,485,780	\$2,223,320	\$2,602,528		\$2,633,786
0	357a	20	Rogers Communications Inc.	200,007	4,000,140	\$2,114,625	\$2,986,556	\$2,140,000	\$3,022,426
1	357d	10	1380057 Alberta Ltd.	200,007	2,000,070	\$555,336	\$1,493,278	\$562,000	\$1,511,213

Actual and Predicted Auction Values for the Industry Canada 2008 AWS Auction Linear Regression Using Data from the 2006 FCC AWS Auction

Estimated Model: Winning Bid = 0.7466129 * (Mhz * Population)

Adjusted R-Squared: 84.53%

Regression Sample.		ic.	1,002 Electises from the 2000 Fee Aws Au	mises from the 2000 Fee AWS Auction		2008 USD		2008 CAD	
Set		Bandwidth							
Aside	Block	(Mhz)	Winning Bidder	Population	MHz * Pop	Actual Winning Bid	Predicted Value	Actual Winning Bid	Predicted Value
0	357e	10	Bell Mobility Inc.	200,007	2,000,070	\$1,007,905	\$1,493,278	\$1,020,000	\$1,511,213
0	357f	20	TELUS Communications Company	200,007	4,000,140	\$1,986,166	\$2,986,556	\$2,010,000	\$3,022,426
0	358a	20	Rogers Communications Inc.	60,717	1,214,340	\$1,333,992	\$906,642	\$1,350,000	\$917,531
1	358d	10	Rich Telecom Corp.	60,717	607,170	\$233,202	\$453,321	\$236,000	\$458,765
0	358e	10	Bell Mobility Inc.	60,717	607,170	\$644,269	\$453,321	\$652,000	\$458,765
0	358f	20	TELUS Communications Company	60,717	1,214,340	\$1,254,941	\$906,642	\$1,270,000	\$917,531
0	359a	20	Rogers Communications Inc.	92,707	1,854,140	\$757,905	\$1,384,325	\$767,000	\$1,400,951
1	359d	10	Globalive Wireless LP	92,707	927,070	\$99,802	\$692,162	\$101,000	\$700,476
0	359e	10	TELUS Communications Company	92,707	927,070	\$287,549	\$692,162	\$291,000	\$700,476
0	359f	20	Bell Mobility Inc.	92,707	1,854,140	\$853,755	\$1,384,325	\$864,000	\$1,400,951
	Total Industry Canada 2008 AWS Auction All Unrestricted Licenses All Set-Aside Licenses		\$2,708,375,620	\$2,245,902,177 \$1,349,724,732 \$896,177,446	. , , ,	\$2,272,876,295 \$1,365,935,426 \$906,940,869			
			Total Indust	Excluding Blocks g and i: al Industry Canada 2008 AWS Auction All Unrestricted Licenses All Set-Aside Licenses		\$4,127,924,308 \$2,632,083,795	\$2,016,361,584 \$1,120,184,138 \$896,177,446	\$2,663,694,000	\$2,040,578,834 \$1,133,637,965 \$906,940,869

Appendix C: Predicted License Values—Quadratic Model

${\bf Appendix}\;{\bf C}$

Actual and Predicted Auction Values for the Industry Canada 2008 AWS Auction Quadratic Regression Using Data from the 2006 FCC AWS Auction

Estimated Model: Winning Bid = $0.6057315 * (Mhz * Population) + 1.89e-10 * (MHz * Population)^2$

Adjusted R-Squared: 85.08%

Regres	Regression Sample:		1,082 Licenses from the 2006 FCC AWS Auction		2008	USD	2008 CAD		
Set		Bandwidth				Actual Winning		Actual Winning	
Aside		(Mhz)	Winning Bidder	Population	MHz*Pop	Bid	Predicted Value	Bid	Predicted Value
1 1	201b 201c	20 10	Bragg Communications Inc. Bragg Communications Inc.	513,282 513,282	10,265,640 5,132,820	\$750,988 \$434,783	\$6,238,148	\$760,000 \$440,000	\$6,313,071 \$3,151,494
0	201c 201g	10	Globalive Wireless LP	513,282	5,132,820	\$556,324	\$3,114,093 \$3,114,093	\$563,000	\$3,151,494
1	202b	20	Bragg Communications Inc.	1,043,232	20,864,640	\$3,003,953	\$12,720,684	\$3,040,000	\$12,873,464
1	202c	10	Bragg Communications Inc.	1,043,232	10,432,320	\$1,650,198	\$6,339,764	\$1,670,000	\$6,415,907
0	202g	10	Blue Canada Wireless Inc.	1,043,232	10,432,320	\$1,138,834		\$1,152,500	\$6,415,907
1	203b	20	Bragg Communications Inc.	728,997	14,579,940	\$1,462,451	\$8,871,724	\$1,480,000	\$8,978,276
1	203c	10	Globalive Wireless LP	728,997	7,289,970	\$1,699,605	\$4,425,813	\$1,720,000	\$4,478,969
0	203i	5	Bragg Communications Inc.	728,997	3,644,985	\$475,296		\$481,000	\$2,236,942
1	204b	20	9193-2962 Québec Inc.	1,590,736	31,814,720	\$7,015,810	\$19,462,564	\$7,100,000	\$19,696,317
1 0	204c 204g	10 10	9193-2962 Québec Inc. 6934579 Canada Inc.	1,590,736 1,590,736	15,907,360 15,907,360	\$3,063,241 \$2,588,933	\$9,683,436 \$9,683,436	\$3,100,000 \$2,620,000	\$9,799,738 \$9,799,738
0	204g 204i	5	Bell Mobility Inc.	1,590,736	7,953,680	\$802,372	\$4,829,756	\$812,000	\$4,887,764
1	205b	20	9193-2962 Québec Inc.	5,151,224	103,000,000	\$166,000,000	\$64,412,106	\$168,000,000	\$65,185,719
1	205c	10	9193-2962 Québec Inc.	5,151,224	51,512,240	\$110,700,000	\$31,704,321	\$112,000,000	\$32,085,102
0	205g	10	6934579 Canada Inc.	5,151,224	51,512,240	\$16,007,905	\$31,704,321	\$16,200,000	\$32,085,102
1	206b	20	9193-2962 Québec Inc.	2,122,177	42,443,540	\$51,284,585	\$26,050,014	\$51,900,000	\$26,362,884
1	206с	10	Data & Audio-Visual Enterprises Wireless Inc.	2,122,177	21,221,770	\$30,039,526	\$12,939,851	\$30,400,000	\$13,095,263
0	206g	10	6934579 Canada Inc.	2,122,177	21,221,770	\$8,389,328	\$12,939,851	\$8,490,000	\$13,095,263
1	207b	20	9193-2962 Québec Inc.	187,081	3,741,620	\$173,913	\$2,269,064	\$176,000	\$2,296,317
1 0	207c 207g	10 10	9193-2962 Québec Inc. Globalive Wireless LP	187,081 187,081	1,870,810 1,870,810	\$351,779 \$257,905	\$1,133,870 \$1,133,870	\$356,000 \$261,000	\$1,147,489 \$1,147,489
0	207g 207i	5	Globalive Wireless LP	187,081	935,405	\$121,542		\$123,000	\$573,577
1	208b	20	Globalive Wireless LP	8,811,117	176,200,000	\$275,700,000	\$112,600,000	\$279,000,000	\$113,952,368
1	208c	10	Data & Audio-Visual Enterprises Wireless Inc.	8,811,117	88,111,170	\$129,400,000	\$54,839,671	\$131,000,000	\$55,498,316
0	208g	10	6934579 Canada Inc.	8,811,117	88,111,170	\$24,777,744	\$54,839,671	\$25,075,077	\$55,498,316
1	209b	20	Bragg Communications Inc.	785,481	15,709,620	\$2,697,629	\$9,562,476	\$2,730,000	\$9,677,325
1	209c	10	Globalive Wireless LP	785,481	7,854,810	\$1,482,213	\$4,769,572	\$1,500,000	\$4,826,857
0	209i	5	Globalive Wireless LP	785,481	3,927,405	\$376,482	\$2,381,870	\$381,000	\$2,410,477
1	210b	20	6934242 Canada Ltd.	1,118,283	22,365,660	\$38,537,549	\$13,642,169	\$39,000,000	\$13,806,017
1 0	210c	10	1380057 Alberta Ltd.	1,118,283	11,182,830	\$13,636,364		\$13,800,000	\$6,879,078
0	210g 210i	10 5	6934242 Canada Ltd. 6934242 Canada Ltd.	1,118,283 1,118,283	11,182,830 5,591,415	\$1,168,478 \$584,239	\$6,797,439 \$3,392,808	\$1,182,500 \$591,250	\$6,879,078 \$3,433,557
1	211b	20	SaskTel	975,717	19,514,340	\$39,920,949	\$11,892,456	\$40,400,000	\$12,035,289
1	211c	10	SaskTel	975,717	9,757,170	\$23,913,043	\$5,928,227	\$24,200,000	\$5,999,427
0	211g	10	SaskTel	975,717	9,757,170	\$1,077,075	\$5,928,227	\$1,090,000	\$5,999,427
1	212b	20	1380057 Alberta Ltd.	2,979,436	59,588,720	\$32,312,253	\$36,766,164	\$32,700,000	\$37,207,739
1	212c	10	Globalive Wireless LP	2,979,436	29,794,360	\$17,885,375	\$18,215,233	\$18,100,000	\$18,434,005
0	212g	10	Novus Wireless Inc.	2,979,436	29,794,360	\$8,063,241	\$18,215,233	\$8,160,000	\$18,434,005
1	213b	20	1380057 Alberta Ltd.	3,907,624	78,152,480	\$99,802,372	\$48,494,302	\$101,000,000	\$49,076,737
1 0	213c	10	Globalive Wireless LP	3,907,624	39,076,240	\$66,600,791	\$23,958,431	\$67,400,000	\$24,246,181
1	213g 214b	10 20	Novus Wireless Inc. Globalive Wireless LP	3,907,624 92,707	39,076,240 1,854,140	\$9,624,506 \$181,818	\$23,958,431 \$1,123,761	\$9,740,000 \$184,000	\$24,246,181 \$1,137,258
1	214c	10	Globalive Wireless LP	92,707	927,070	\$102,767	\$561,718	\$104,000	\$568,464
0	214g	10	Globalive Wireless LP	92,707	927,070	\$145,257	\$561,718	\$147,000	\$568,464
0	214i	5	Bell Mobility Inc.	92,707	463,535	\$136,364	\$280,818	\$138,000	\$284,191
0	301a	20	Rogers Communications Inc.	513,282	10,265,640	\$6,304,348		\$6,380,000	\$6,313,071
1	301d	10	Globalive Wireless LP	513,282	5,132,820	\$375,494	\$3,114,093	\$380,000	\$3,151,494
0	301e	10	TELUS Communications Company	513,282	5,132,820	\$3,300,395	\$3,114,093	\$3,340,000	\$3,151,494
0	301f	20	Bell Mobility Inc.	513,282	10,265,640	\$6,304,348		\$6,380,000	\$6,313,071
0	302a	20	Rogers Communications Inc.	135,294	2,705,880	\$2,519,763	\$1,640,421	\$2,550,000	\$1,660,123
1 0	302d	10	Globalive Wireless LP	135,294	1,352,940	\$287,549		\$291,000 \$1,870,000	\$829,711
0	302e 302f	10 20	TELUS Communications Company Bell Mobility Inc.	135,294 135,294	1,352,940 2,705,880	\$1,847,826 \$2,598,814	\$819,865 \$1,640,421	\$1,870,000	\$829,711 \$1,660,123
0	303a	20	Bell Mobility Inc.	760,894	15,217,880	\$15,019,763	\$9,261,738	\$15,200,000	\$9,372,975
1	303d	10	Globalive Wireless LP	760,894	7,608,940	\$935,771	\$4,619,922	\$947,000	\$4,675,409
0	303e	10	TELUS Communications Company	760,894	7,608,940	\$7,154,150	\$4,619,922	\$7,240,000	\$4,675,409
0	303f	20	Rogers Communications Inc.	760,894	15,217,880	\$15,118,577	\$9,261,738	\$15,300,000	\$9,372,975
0	304a	20	Rogers Communications Inc.	147,044	2,940,880	\$3,577,075	\$1,783,019	\$3,620,000	\$1,804,434
1	304d	10	Globalive Wireless LP	147,044	1,470,440	\$285,573	\$891,101	\$289,000	\$901,803
0	304e	10	TELUS Communications Company	147,044	1,470,440	\$1,946,640		\$1,970,000	\$901,803
0	304f	20	Bell Mobility Inc.	147,044	2,940,880	\$3,833,992	\$1,783,019	\$3,880,000	\$1,804,434
0 1	305a 305d	20 10	Rogers Communications Inc. Bragg Communications Inc.	167,343 167,343	3,346,860	\$2,677,866 \$591,897	\$2,029,417	\$2,710,000 \$599,000	\$2,053,791 \$1,026,359
0	305e	10	TELUS Communications Company	167,343	1,673,430 1,673,430	\$2,272,727	\$1,014,179 \$1,014,179	\$2,300,000	\$1,026,339
0	305f	20	Bell Mobility Inc.	167,343	3,346,860	\$3,023,715	\$2,029,417	\$3,060,000	\$2,053,791
9				10.,515	5,5 .5,550	\$0,0 2 0,710	Ψ=,∪=>, 11/	¥2,030,000	Ψ=,000,771

Set Aside	Block	Bandwidth (Mhz)	Winning Bidder	Population	MHz*Pop	Actual Winning Bid	Predicted Value	Actual Winning Bid	Predicted Value
0	306a	20	Rogers Communications Inc.	209,227	4,184,540	\$3,171,937	\$2,538,019	\$3,210,000	\$2,568,501
1	306d	10	Bragg Communications Inc.	209,227	2,092,270	\$601,779	\$1,268,182	\$609,000	\$1,283,413
0	306e	10	TELUS Communications Company	209,227	2,092,270	\$2,697,629	\$1,268,182	\$2,730,000	\$1,283,413
0	306f	20	Bell Mobility Inc.	209,227	4,184,540	\$3,537,549	\$2,538,019	\$3,580,000	\$2,568,501
0	307a	20	Rogers Communications Inc.	352,427	7,048,540	\$4,752,964	\$4,278,917	\$4,810,000	\$4,330,308
1	307d	10	Bragg Communications Inc.	352,427	3,524,270	\$964,427	\$2,137,110	\$976,000	\$2,162,777
0	307e	10	TELUS Communications Company	352,427	3,524,270	\$4,041,502	\$2,137,110	\$4,090,000	\$2,162,777
0	307f	20	Bell Mobility Inc.	352,427	7,048,540	\$5,059,289	\$4,278,917	\$5,120,000	
0	308a	20	Rogers Communications Inc.	298,273	5,965,460	\$2,252,964	\$3,620,196	\$2,280,000	
1	308d	10	9193-2962 Québec Inc.	298,273	2,982,730	\$975,296	\$1,808,416	\$987,000	\$1,830,136
0	308e	10	Bell Mobility Inc.	298,273	2,982,730	\$1,541,502	\$1,808,416	\$1,560,000	
0	308f	20	TELUS Communications Company	298,273	5,965,460	\$2,450,593	\$3,620,196	\$2,480,000	\$3,663,676
0	309a	20	Rogers Communications Inc.	917,873	18,357,460	\$34,387,352	\$11,183,413	\$34,800,000	\$11,317,730
1 0	309d 309e	10	9193-2962 Québec Inc.	917,873	9,178,730	\$2,450,593	\$5,575,776 \$5,575,776	\$2,480,000	
0	309e 309f	10 20	Bell Mobility Inc. TELUS Communications Company	917,873 917,873	9,178,730 18,357,460	\$14,328,063 \$34,486,166	\$5,575,776 \$11,183,413	\$14,500,000 \$34,900,000	\$5,642,743 \$11,317,730
0	310a	20	Rogers Communications Inc.	374,590	7,491,800	\$4,525,692	\$4,548,632	\$4,580,000	
1	310d	10	9193-2962 Québec Inc.	374,590	3,745,900	\$545,455	\$2,271,663	\$552,000	\$2,298,946
0	310e	10	Bell Mobility Inc.	374,590	3,745,900	\$1,936,759	\$2,271,663	\$1,960,000	
0	310f	20	TELUS Communications Company	374,590	7,491,800	\$4,397,233	\$4,548,632	\$4,450,000	
0	311a	20	Rogers Communications Inc.	509,717	10,194,340	\$9,288,538	\$6,194,684	\$9,400,000	\$6,269,084
1	311d	10	9193-2962 Québec Inc.	509,717	5,097,170	\$3,547,431	\$3,092,429	\$3,590,000	
0	311e	10	9193-2962 Québec Inc.	509,717	5,097,170	\$5,128,459	\$3,092,429	\$5,190,000	\$3,129,570
0	311f	20	TELUS Communications Company	509,717	10,194,340	\$10,375,494	\$6,194,684	\$10,500,000	\$6,269,084
0	312a	20	Rogers Communications Inc.	749,812	14,996,240	\$21,047,431	\$9,126,218	\$21,300,000	\$9,235,827
1	312d	10	9193-2962 Québec Inc.	749,812	7,498,120	\$5,187,747	\$4,552,478	\$5,250,000	\$4,607,155
0	312e	10	Bell Mobility Inc.	749,812	7,498,120	\$9,456,522	\$4,552,478	\$9,570,000	\$4,607,155
0	312f	20	TELUS Communications Company	749,812	14,996,240	\$21,640,316	\$9,126,218	\$21,900,000	
0	313a	20	Rogers Communications Inc.	3,784,570	75,691,400	\$189,700,000	\$46,931,957	\$192,000,000	\$47,495,627
1	313d	10	9193-2962 Québec Inc.	3,784,570	37,845,700	\$95,454,545	\$23,195,156	\$96,600,000	
0	313e	10	Bell Mobility Inc.	3,784,570	37,845,700	\$126,500,000	\$23,195,156	\$128,000,000	
0	313f 314a	20 20	TELUS Communications Company	3,784,570	75,691,400	\$231,200,000	\$46,931,957	\$234,000,000	\$47,495,627
1	314a 314d	10	Rogers Communications Inc. 9193-2962 Québec Inc.	107,125 107,125	2,142,500 1,071,250	\$1,156,127 \$505,929	\$1,298,648 \$649,107	\$1,170,000	
0	314u 314e	10	Bell Mobility Inc.	107,125	1,071,250	\$670,949	\$649,107	\$512,000 \$679,000	
0	314c	20	TELUS Communications Company	107,125	2,142,500	\$1,185,771	\$1,298,648	\$1,200,000	
0	315a	20	Rogers Communications Inc.	1,265,237	25,304,740	\$45,948,617	\$15,448,954	\$46,500,000	\$15,634,502
1	315d	10	Globalive Wireless LP	1,265,237	12,652,370	\$26,778,656	\$7,694,208	\$27,100,000	
0	315e	10	Bell Mobility Inc.	1,265,237	12,652,370	\$32,806,324	\$7,694,208	\$33,200,000	
0	315f	20	TELUS Communications Company	1,265,237	25,304,740	\$44,071,146	\$15,448,954	\$44,600,000	\$15,634,502
0	316a	20	Rogers Communications Inc.	108,154	2,163,080	\$1,571,146	\$1,311,131	\$1,590,000	\$1,326,878
1	316d	10	Globalive Wireless LP	108,154	1,081,540	\$1,314,229	\$655,344	\$1,330,000	\$663,215
0	316e	10	Bell Mobility Inc.	108,154	1,081,540	\$1,650,198	\$655,344	\$1,670,000	\$663,215
0	316f	20	TELUS Communications Company	108,154	2,163,080	\$1,699,605	\$1,311,131	\$1,720,000	\$1,326,878
0	317a	20	Rogers Communications Inc.	187,081	3,741,620	\$2,164,032	\$2,269,064	\$2,190,000	
1	317d	10	9193-2962 Québec Inc.	187,081	1,870,810	\$351,779	\$1,133,870	\$356,000	
0	317e	10	TELUS Communications Company	187,081	1,870,810	\$1,254,941	\$1,133,870	\$1,270,000	
0	317f	20	Bell Mobility Inc.	187,081	3,741,620	\$2,075,099	\$2,269,064	\$2,100,000	
0	318a	20	Rogers Communications Inc.	65,921	1,318,420	\$1,551,383	\$798,937	\$1,570,000	
1	318d 318e	10	Globalive Wireless LP	65,921	659,210	\$1,452,569	\$399,386	\$1,470,000	
0	318f	10 20	TELUS Communications Company Bell Mobility Inc.	65,921 65,921	659,210 1,318,420	\$1,758,893 \$1,511,858	\$399,386 \$798,937	\$1,780,000 \$1,530,000	
0	319a	20	Rogers Communications Inc.	82,869	1,657,380	\$1,709,486	\$1,004,447	\$1,730,000	
1	319d	10	Globalive Wireless LP	82,869	828,690	\$1,541,502	\$502,094	\$1,560,000	
0	319e	10	TELUS Communications Company	82,869	828,690	\$1,640,316	\$502,094	\$1,660,000	
0	319f	20	Bell Mobility Inc.	82,869	1,657,380	\$1,739,130	\$1,004,447	\$1,760,000	
0	320a	20	Rogers Communications Inc.	162,711	3,254,220	\$2,618,577	\$1,973,186	\$2,650,000	
1	320d	10	Globalive Wireless LP	162,711	1,627,110	\$1,077,075	\$986,092	\$1,090,000	
0	320e	10	TELUS Communications Company	162,711	1,627,110	\$1,689,723	\$986,092	\$1,710,000	
0	320f	20	Bell Mobility Inc.	162,711	3,254,220	\$2,500,000	\$1,973,186	\$2,530,000	\$1,996,885
0	321a	20	Rogers Communications Inc.	184,594	3,691,880	\$2,954,546	\$2,238,865	\$2,990,000	\$2,265,755
1	321d	10	Globalive Wireless LP	184,594	1,845,940	\$1,007,905	\$1,118,788	\$1,020,000	
0	321e	10	TELUS Communications Company	184,594	1,845,940	\$1,768,775	\$1,118,788	\$1,790,000	
0	321f	20	Bell Mobility Inc.	184,594	3,691,880	\$2,806,324	\$2,238,865	\$2,840,000	
0	322a	20	Rogers Communications Inc.	59,699	1,193,980	\$1,818,182	\$723,501	\$1,840,000	
1	322d	10	Globalive Wireless LP	59,699	596,990	\$1,393,281	\$361,683	\$1,410,000	
0	322e	10	TELUS Communications Company	59,699	596,990	\$1,482,213	\$361,683	\$1,500,000	
0	322f	20	Bell Mobility Inc.	59,699	1,193,980	\$1,699,605	\$723,501	\$1,720,000	
0	323a	20	Rogers Communications Inc.	192,992	3,859,840	\$2,727,273	\$2,340,844	\$2,760,000	
1	323d	10	Globalive Wireless LP	192,992	1,929,920	\$894,269	\$1,169,718	\$905,000	
0	323e 323f	10	TELUS Communications Company	192,992	1,929,920	\$1,106,719	\$1,169,718	\$1,120,000	\$1,183,766
0	324a	20 20	Bell Mobility Inc. Rogers Communications Inc.	192,992 72,322	3,859,840 1,446,440	\$2,658,103 \$1,136,364	\$2,340,844 \$876,550	\$2,690,000 \$1,150,000	
0 1	324a 324d	20 10	Rich Telecom Corp.	72,322	723,220	\$1,136,364 \$497,036	\$876,550 \$438,176	\$1,150,000 \$503,000	
1	32 -r u	10	raen reiceom corp.	12,322	143,440	Ψ+21,030	φ+30,170	φ505,000	ф тт Ј, Т ЈЈ

Set Aside	Block	Bandwidth (Mhz)	Winning Bidder	Population	MHz*Pop	Actual Winning Bid	Predicted Value	Actual Winning Bid	Predicted Value
0	324e	10	TELUS Communications Company	72,322	723,220	\$683,794	\$438,176	\$692,000	\$443,439
0	324f	20	Bell Mobility Inc.	72,322	1,446,440	\$1,472,332	\$876,550	\$1,490,000	\$887,078
0	325a	20	Rogers Communications Inc.	5,635,827	112,700,000	\$232,200,000	\$70,678,259	\$235,000,000	\$71,527,131
1	325d	10	9193-2962 Québec Inc.	5,635,827	56,358,270	\$95,256,917	\$34,738,556	\$96,400,000	\$35,155,779
0	325e	10	TELUS Communications Company	5,635,827	56,358,270	\$101,800,000	\$34,738,556	\$103,000,000	\$35,155,779
0	325f 326a	20 20	Bell Mobility Inc.	5,635,827	112,700,000	\$310,300,000	\$70,678,259	\$314,000,000	\$71,527,131
0 1	326a 326d	10	Rogers Communications Inc. Bragg Communications Inc.	591,338 591,338	11,826,760 5,913,380	\$9,871,542 \$2,608,696	\$7,190,289 \$3,588,533	\$9,990,000 \$2,640,000	\$7,276,647 \$3,631,632
0	326e	10	TELUS Communications Company	591,338	5,913,380	\$4,911,067	\$3,588,533	\$4,970,000	\$3,631,632
0	326f	20	Bell Mobility Inc.	591,338	11,826,760	\$14,624,506	\$7,190,289	\$14,800,000	\$7,276,647
0	327a	20	Rogers Communications Inc.	607,035	12,140,700	\$7,411,067	\$7,381,875	\$7,500,000	\$7,470,534
1	327d	10	Data & Audio-Visual Enterprises Wireless Inc.	607,035	6,070,350	\$2,569,170	\$3,683,970	\$2,600,000	\$3,728,216
0	327e	10	TELUS Communications Company	607,035	6,070,350	\$5,049,407	\$3,683,970	\$5,110,000	\$3,728,216
0	327f	20	Bell Mobility Inc.	607,035	12,140,700	\$15,019,763	\$7,381,875	\$15,200,000	\$7,470,534
0	328a	20	Rogers Communications Inc.	133,987	2,679,740	\$1,719,368	\$1,624,561	\$1,740,000	\$1,644,072
1	328d	10	Bragg Communications Inc.	133,987	1,339,870	\$871,542	\$811,941	\$882,000	\$821,693
0	328e	10	TELUS Communications Company	133,987	1,339,870	\$1,215,415	\$811,941	\$1,230,000	\$821,693
0	328f	20	Bell Mobility Inc.	133,987 354,971	2,679,740	\$3,320,158	\$1,624,561	\$3,360,000	\$1,644,072
0 1	329a 329d	20 10	Rogers Communications Inc. Data & Audio-Visual Enterprises Wireless Inc.	354,971	7,099,420 3,549,710	\$9,328,063 \$1,363,636	\$4,309,873 \$2,152,554	\$9,440,000 \$1,380,000	\$4,361,636 \$2,178,407
0	329a 329e	10	TELUS Communications Company	354,971	3,549,710	\$2,806,324	\$2,152,554	\$2,840,000	\$2,178,407
0	329f	20	Bell Mobility Inc.	354,971	7,099,420	\$9,446,640	\$4,309,873	\$9,560,000	\$4,361,636
0	330a	20	Rogers Communications Inc.	765,656	15,313,120	\$20,849,802	\$9,319,978	\$21,100,000	\$9,431,914
1	330d	10	Bragg Communications Inc.	765,656	7,656,560	\$4,308,300	\$4,648,905	\$4,360,000	\$4,704,740
0	330e	10	Bell Mobility Inc.	765,656	7,656,560	\$4,861,660	\$4,648,905	\$4,920,000	\$4,704,740
0	330f	20	TELUS Communications Company	765,656	15,313,120	\$20,948,617	\$9,319,978	\$21,200,000	\$9,431,914
0	331a	20	Rogers Communications Inc.	107,029	2,140,580	\$1,116,601	\$1,297,483	\$1,130,000	\$1,313,066
1	331d	10	Celluworld Inc.	107,029	1,070,290	\$920,949	\$648,525	\$932,000	\$656,314
0	331e	10	Bell Mobility Inc.	107,029	1,070,290	\$837,945	\$648,525	\$848,000	\$656,314
0	331f 332a	20 20	TELUS Communications Company	107,029	2,140,580	\$2,213,439	\$1,297,483	\$2,240,000	\$1,313,066
0 1	332d	10	Rogers Communications Inc. Data & Audio-Visual Enterprises Wireless Inc.	376,213 376,213	7,524,260 3,762,130	\$4,318,182 \$1,561,265	\$4,568,386 \$2,281,517	\$4,370,000 \$1,580,000	\$4,623,254 \$2,308,919
0	332e	10	Bell Mobility Inc.	376,213	3,762,130	\$3,211,463	\$2,281,517	\$3,250,000	\$2,308,919
0	332f	20	TELUS Communications Company	376,213	7,524,260	\$5,701,581	\$4,568,386	\$5,770,000	\$4,623,254
0	333a	20	Rogers Communications Inc.	166,739	3,334,780	\$2,065,217	\$2,022,084	\$2,090,000	\$2,046,370
1	333d	10	Bragg Communications Inc.	166,739	1,667,390	\$730,237	\$1,010,516	\$739,000	\$1,022,653
0	333e	10	TELUS Communications Company	166,739	1,667,390	\$1,699,605	\$1,010,516	\$1,720,000	\$1,022,653
0	333f	20	Bell Mobility Inc.	166,739	3,334,780	\$3,428,854	\$2,022,084	\$3,470,000	\$2,046,370
0	334a	20	Rogers Communications Inc.	122,253	2,445,060	\$1,067,194	\$1,482,180	\$1,080,000	\$1,499,982
1	334d	10	Bragg Communications Inc.	122,253	1,222,530	\$537,549	\$740,808	\$544,000	\$749,705
0	334e	10	TELUS Communications Company	122,253	1,222,530	\$679,842	\$740,808	\$688,000	\$749,705
0	334f 335a	20 20	Bell Mobility Inc. Rogers Communications Inc.	122,253 135,482	2,445,060 2,709,640	\$1,007,905 \$2,005,929	\$1,482,180 \$1,642,703	\$1,020,000 \$2,030,000	\$1,499,982 \$1,662,432
1	335d	10	1380057 Alberta Ltd.	135,482	1,354,820	\$430,830	\$821,004	\$436,000	\$830,865
0	335e	10	TELUS Communications Company	135,482	1,354,820	\$1,373,518	\$821,004	\$1,390,000	\$830,865
0	335f	20	Bell Mobility Inc.	135,482	2,709,640	\$2,114,625	\$1,642,703	\$2,140,000	\$1,662,432
0	336a	20	Rogers Communications Inc.	172,605	3,452,100	\$3,181,818	\$2,093,299	\$3,220,000	\$2,118,440
1	336d	10	Bragg Communications Inc.	172,605	1,726,050	\$795,455	\$1,046,086	\$805,000	\$1,058,650
0	336e	10	TELUS Communications Company	172,605	1,726,050	\$2,025,692	\$1,046,086	\$2,050,000	\$1,058,650
0	336f	20	Bell Mobility Inc.	172,605	3,452,100	\$3,310,277	\$2,093,299	\$3,350,000	\$2,118,440
0	337a	20	Rogers Communications Inc.	120,308	2,406,160	\$1,749,012	\$1,458,582	\$1,770,000	\$1,476,100
1	337d	10	Bragg Communications Inc.	120,308	1,203,080	\$507,905	\$729,017	\$514,000	\$737,773
0	337e 337f	10 20	TELUS Communications Company Bell Mobility Inc.	120,308	1,203,080	\$976,285	\$729,017	\$988,000 \$1,770,000	\$737,773
0 0	338a	20	Rogers Communications Inc.	120,308 234,833	2,406,160 4,696,660	\$1,749,012 \$2,658,103	\$1,458,582 \$2,849,086	\$1,770,000	\$1,476,100 \$2,883,305
1	338d	10	1380057 Alberta Ltd.	234,833	2,348,330	\$792,490	\$1,423,500	\$802,000	\$1,440,597
0	338e	10	TELUS Communications Company	234,833	2,348,330	\$2,391,304	\$1,423,500	\$2,420,000	\$1,440,597
0	338f	20	Bell Mobility Inc.	234,833	4,696,660	\$3,053,360	\$2,849,086	\$3,090,000	\$2,883,305
0	339a	20	Rogers Communications Inc.	945,818	18,916,360	\$34,486,166	\$11,525,895	\$34,900,000	\$11,664,325
1	339d	10	Globalive Wireless LP	945,818	9,458,180	\$13,339,921	\$5,746,033	\$13,500,000	\$5,815,045
0	339e	10	1380057 Alberta Ltd.	945,818	9,458,180	\$14,920,949	\$5,746,033	\$15,100,000	\$5,815,045
0	339f	20	TELUS Communications Company	945,818	18,916,360	\$34,486,166	\$11,525,895	\$34,900,000	\$11,664,325
0	340a	20	Rogers Communications Inc.	172,465	3,449,300	\$1,768,775	\$2,091,600	\$1,790,000	\$2,116,720
1	340d	10	Globalive Wireless LP	172,465	1,724,650	\$763,834	\$1,045,237	\$773,000	\$1,057,791
0	340e	10	1380057 Alberta Ltd.	172,465	1,724,650	\$1,581,028	\$1,045,237	\$1,600,000	\$1,057,791
0 0	340f 341a	20 20	TELUS Communications Company Rogers Communications Inc.	172,465 349,538	3,449,300 6,990,760	\$1,907,115 \$16,897,233	\$2,091,600 \$4,243,764	\$1,930,000 \$17,100,000	\$2,116,720 \$4,294,734
0 1	341a 341d	20 10	1380057 Alberta Ltd.	349,538 349,538	6,990,760 3,495,380	\$16,897,233 \$4,911,067	\$4,243,764 \$2,119,572	\$17,100,000 \$4,970,000	\$4,294,734 \$2,145,029
0	341u	10	Globalive Wireless LP	349,538	3,495,380	\$5,691,700	\$2,119,572	\$5,760,000	\$2,145,029
0	341f	20	TELUS Communications Company	349,538	6,990,760	\$17,984,190	\$4,243,764	\$18,200,000	\$4,294,734
0	342a	20	Rogers Communications Inc.	104,297	2,085,940	\$4,387,352	\$1,264,342	\$4,440,000	\$1,279,528
1	342d	10	1380057 Alberta Ltd.	104,297	1,042,970	\$2,401,186	\$631,966	\$2,430,000	\$639,556
0	342e	10	Globalive Wireless LP	104,297	1,042,970	\$2,658,103	\$631,966	\$2,690,000	\$639,556
0	342f	20	TELUS Communications Company	104,297	2,085,940	\$4,377,470	\$1,264,342	\$4,430,000	\$1,279,528

Set		Bandwidth				Actual Winning		Actual Winning	
Aside		(Mhz)	Winning Bidder	Population	MHz*Pop	Bid	Predicted Value	Bid	Predicted Value
0	343a	20	TELUS Communications Company	521,882	10,437,640	\$31,126,482	\$6,343,007	\$31,500,000	\$6,419,189
1 0	343d 343e	10 10	1380057 Alberta Ltd. Globalive Wireless LP	521,882	5,218,820	\$12,549,407	\$3,166,354	\$12,700,000	\$3,204,383
0	343f	20	Rogers Communications Inc.	521,882 521,882	5,218,820 10,437,640	\$11,857,708 \$31,126,482	\$3,166,354 \$6,343,007	\$12,000,000 \$31,500,000	\$3,204,383 \$6,419,189
0	344a	20	Rogers Communications Inc.	1,199,124	23,982,480	\$34,980,237	\$14,635,697	\$35,400,000	\$14,811,477
1	344d	10	Data & Audio-Visual Enterprises Wireless Inc.	1,199,124	11,991,240	\$8,883,399	\$7,290,660	\$8,990,000	\$7,378,224
0	344e	10	Bell Mobility Inc.	1,199,124	11,991,240	\$18,972,332	\$7,290,660	\$19,200,000	\$7,378,224
0	344f	20	TELUS Communications Company	1,199,124	23,982,480	\$36,264,822	\$14,635,697	\$36,700,000	\$14,811,477
0	345a	20	Rogers Communications Inc.	175,718	3,514,360	\$1,452,569	\$2,131,094	\$1,470,000	\$2,156,689
1	345d	10	1380057 Alberta Ltd.	175,718	1,757,180	\$564,229	\$1,064,963	\$571,000	\$1,077,754
0	345e	10	Bell Mobility Inc.	175,718	1,757,180	\$855,731	\$1,064,963	\$866,000	\$1,077,754
0	345f	20	TELUS Communications Company	175,718	3,514,360	\$1,650,198	\$2,131,094	\$1,670,000	\$2,156,689
0	346a	20	Rogers Communications Inc.	156,171	3,123,420	\$1,897,233	\$1,893,799	\$1,920,000	\$1,916,544
1	346d	10	1380057 Alberta Ltd.	156,171	1,561,710	\$467,391	\$946,438	\$473,000	\$957,805
0	346e	10	Bell Mobility Inc.	156,171	1,561,710	\$858,696	\$946,438	\$869,000	\$957,805
0	346f	20	TELUS Communications Company	156,171	3,123,420	\$1,897,233	\$1,893,799	\$1,920,000	\$1,916,544
0	347a	20	Rogers Communications Inc.	1,091,673	21,833,460	\$53,458,498	\$13,315,351	\$54,100,000	\$13,475,273
1	347d	10	Data & Audio-Visual Enterprises Wireless Inc.	1,091,673	10,916,730	\$8,290,514	\$6,635,142	\$8,390,000	\$6,714,832
0	347e	10	Bell Mobility Inc.	1,091,673	10,916,730	\$16,501,976	\$6,635,142	\$16,700,000	\$6,714,832
0	347f 348a	20 20	TELUS Communications Company	1,091,673	21,833,460	\$56,719,368	\$13,315,351	\$57,400,000	\$13,475,273 \$2,436,304
1	348d	10	Rogers Communications Inc. Data & Audio-Visual Enterprises Wireless Inc.	198,479 198,479	3,969,580 1,984,790	\$2,193,676 \$661,067	\$2,407,479 \$1,202,995	\$2,220,000 \$669,000	\$2,436,394 \$1,217,443
0	348e	10	Bell Mobility Inc.	198,479	1,984,790	\$1,007,905	\$1,202,995	\$1,020,000	\$1,217,443
0	348f	20	TELUS Communications Company	198,479	3,969,580	\$2,450,593	\$2,407,479	\$2,480,000	\$2,436,394
0	349a	20	Rogers Communications Inc.	158,271	3,165,420	\$3,577,075	\$1,919,289	\$3,620,000	\$1,942,341
1	349d	10	Bragg Communications Inc.	158,271	1,582,710	\$236,166	\$959,171	\$239,000	\$970,691
0	349e	10	Bragg Communications Inc.	158,271	1,582,710	\$2,094,862	\$959,171	\$2,120,000	\$970,691
0	349f	20	TELUS Communications Company	158,271	3,165,420	\$3,537,549	\$1,919,289	\$3,580,000	\$1,942,341
0	350a	20	Rogers Communications Inc.	132,914	2,658,280	\$1,324,111	\$1,611,540	\$1,340,000	\$1,630,895
1	350d	10	1380057 Alberta Ltd.	132,914	1,329,140	\$258,893	\$805,436	\$262,000	\$815,110
0	350e	10	Bell Mobility Inc.	132,914	1,329,140	\$788,538	\$805,436	\$798,000	\$815,110
0	350f	20	TELUS Communications Company	132,914	2,658,280	\$1,333,992	\$1,611,540	\$1,350,000	\$1,630,895
0	351a	20	Rogers Communications Inc.	368,647	7,372,940	\$5,098,814	\$4,476,301	\$5,160,000	\$4,530,063
1	351d	10	1380057 Alberta Ltd.	368,647	3,686,470	\$747,036	\$2,235,581	\$756,000	\$2,262,431
0	351e	10	Bell Mobility Inc.	368,647	3,686,470	\$1,986,166	\$2,235,581	\$2,010,000	\$2,262,431
0	351f	20	TELUS Communications Company	368,647	7,372,940	\$5,098,814	\$4,476,301	\$5,160,000	\$4,530,063
0	352a	20	Rogers Communications Inc.	2,310,047	46,200,940	\$115,600,000	\$28,388,968	\$117,000,000	\$28,729,930
1	352d	10	Data & Audio-Visual Enterprises Wireless Inc.	2,310,047	23,100,470	\$55,731,225	\$14,093,584	\$56,400,000	\$14,262,853
0	352e	10	Bell Mobility Inc.	2,310,047	23,100,470	\$61,363,636	\$14,093,584	\$62,100,000	\$14,262,853
0	352f 353a	20 20	TELUS Communications Company Rogers Communications Inc.	2,310,047 389,247	46,200,940 7,784,940	\$115,600,000 \$5,602,767	\$28,388,968 \$4,727,043	\$117,000,000	\$28,729,930 \$4,783,817
1	353d	10	Data & Audio-Visual Enterprises Wireless Inc.	389,247	3,892,470	\$1,729,249	\$2,360,657	\$5,670,000 \$1,750,000	\$2,389,009
0	353e	10	Bell Mobility Inc.	389,247	3,892,470	\$2,766,798	\$2,360,657	\$2,800,000	\$2,389,009
0	353f	20	TELUS Communications Company	389,247	7,784,940	\$5,988,142	\$4,727,043	\$6,060,000	\$4,783,817
0	354a	20	Rogers Communications Inc.	165,741	3,314,820	\$1,986,166	\$2,009,969	\$2,010,000	\$2,034,109
1	354d	10	1380057 Alberta Ltd.	165,741	1,657,410	\$552,372	\$1,004,465	\$559,000	\$1,016,529
0	354e	10	Bell Mobility Inc.	165,741	1,657,410	\$986,166	\$1,004,465	\$998,000	\$1,016,529
0	354f	20	TELUS Communications Company	165,741	3,314,820	\$2,173,913	\$2,009,969	\$2,200,000	\$2,034,109
0	355a	20	Rogers Communications Inc.	106,015	2,120,300	\$1,067,194	\$1,285,183	\$1,080,000	\$1,300,618
1	355d	10	1380057 Alberta Ltd.	106,015	1,060,150	\$206,522	\$642,379	\$209,000	\$650,094
0	355e	10	Bell Mobility Inc.	106,015	1,060,150	\$654,150	\$642,379	\$662,000	\$650,094
0	355f	20	TELUS Communications Company	106,015	2,120,300	\$1,146,245	\$1,285,183	\$1,160,000	\$1,300,618
0	356a	20	Rogers Communications Inc.	174,289	3,485,780	\$2,134,387	\$2,113,744	\$2,160,000	\$2,139,131
1	356d	10	1380057 Alberta Ltd.	174,289	1,742,890	\$582,016	\$1,056,298	\$589,000	\$1,068,984
0	356e	10	Bell Mobility Inc.	174,289	1,742,890	\$980,237	\$1,056,298	\$992,000	\$1,068,984
0	356f	20	TELUS Communications Company	174,289	3,485,780	\$2,223,320	\$2,113,744	\$2,250,000	\$2,139,131
0	357a	20	Rogers Communications Inc.	200,007	4,000,140	\$2,114,625	\$2,426,037	\$2,140,000	\$2,455,174
1	357d	10	1380057 Alberta Ltd.	200,007	2,000,070	\$555,336	\$1,212,262	\$562,000	\$1,226,822
0	357e 357f	10	Bell Mobility Inc.	200,007	2,000,070	\$1,007,905 \$1,086,166	\$1,212,262 \$2,426,037	\$1,020,000	\$1,226,822 \$2,455,174
		20	TELUS Communications Company	200,007	4,000,140	\$1,986,166	\$2,426,037	\$2,010,000	\$2,455,174
0	358a 358d	20	Rogers Communications Inc.	60,717	1,214,340	\$1,333,992	\$735,843 \$367,852	\$1,350,000	\$744,681 \$372,270
1 0	358d 358e	10 10	Rich Telecom Corp. Bell Mobility Inc.	60,717 60,717	607,170 607,170	\$233,202 \$644,269	\$367,852 \$367,852	\$236,000 \$652,000	\$372,270 \$372,270
0	358f	20	TELUS Communications Company	60,717	1,214,340	\$1,254,941	\$735,843	\$1,270,000	\$372,270 \$744,681
0	359a	20	Rogers Communications Inc.	92,707	1,854,140	\$757,905	\$1,123,761	\$767,000	\$1,137,258
1	359d	10	Globalive Wireless LP	92,707	927,070	\$99,802	\$561,718	\$101,000	\$568,464
0	359e	10	TELUS Communications Company	92,707	927,070	\$287,549	\$561,718	\$291,000	\$568,464
0	359f	20	Bell Mobility Inc.	92,707	1,854,140	\$853,755	\$1,123,761	\$864,000	\$1,137,258
			•	7	· · · · ·		. , -,	. ,	. , .,

All Unrestricted Licenses \$2,708,375,620 \$1,108,316,001 \$2,740,901,327 \$1,121,627,287 All Set-Aside Licenses \$1,495,840,514 \$741,460,101 \$1,513,809,000 \$750,365,312

Total Industry Canada 2008 AWS Auction \$4,204,216,133 \$1,849,776,102 \$4,254,710,327

\$1,871,992,598

Actual Winning Actual Winning Bandwidth Set **Predicted Value** Aside Block (Mhz) Winning Bidder Population MHz*Pop Predicted Value Bid Bid All Unrestricted Licenses \$2,632,083,795 \$919,437,531 \$2,663,694,000 \$930,480,317 All Set-Aside Licenses \$1,495,840,514 \$741,460,101 \$1,513,809,000 \$750,365,312



Appendix D Bids Out of Value in Late Rounds Service Area 302 - Prince Edward Island

	Bragg	302d - 10 M Globalive	Hz Set-Aside 9193-2962		302e - Bell Mobility	10 MHz Unrest Bragg	tricted TELUS	Ratio of Unrestricted to
Round	Comm. Inc.	Wireless	Quebec Inc.	SaskTel	Inc.	Comm. Inc.	Comm. Inc.	Set-Aside High Bids
20		¢140.5			_		\$149.5	1.0
25 29		\$149.5				\$165.0		1.0 1.1
30							\$182.0	1.2
35 36						\$197.0	\$213.0	1.3 1.4
38						\$231.0	\$213.0	1.5
39							\$250.0	1.7
40						\$270.0	\$202.0	1.8
41 42						\$316.0	\$292.0	2.0 2.1
43							\$342.0	2.3
45 47						\$356.0	\$371.0	2.4 2.5
48						\$386.0	\$371.0	2.6
49							\$402.0	2.7
54 55						\$419.0	\$436.0	2.8 2.9
56						\$454.0	φ430.0	3.0
57							\$473.0	3.2
59 60						\$492.0	\$512.0	3.3 3.4
62						\$533.0	\$512.0	3.6
63							\$555.0	3.7
64						\$578.0	\$ 602.0	3.9
65 66						\$627.0	\$602.0	4.0 4.2
67							\$653.0	4.4
68					¢700.0	\$680.0		4.5
69 71					\$708.0	\$737.0	\$737.0	4.7 4.9
72			\$156.0			4,0,10	4,0,10	4.7
73		\$163.0				ф д с д О		4.5
75 76						\$767.0	\$798.0	4.7 4.9
85	\$170.0						477.515	4.7
86		\$177.0				фо 2 0 0		4.5
87 88						\$830.0	\$864.0	4.7 4.9
90						\$899.0		5.1
91						¢072.0	\$935.0	5.3
92 93						\$973.0	\$1,020.0	5.5 5.8
94						\$1,070.0		6.0
96						¢1 170 0	\$1,120.0	6.3 6.6
107 109						\$1,170.0	\$1,220.0	6.9
121	\$185.0						, ,	6.6
124	¢201.0	\$193.0						6.3
125 127	\$201.0	\$201.0						6.1 6.1
128		+201.0				\$1,270.0		6.3
129						¢1.200.0	\$1,330.0	6.6
132 133						\$1,390.0	\$1,450.0	6.9 7.2
151						\$1,510.0		7.5
152							\$1,580.0	7.9
168 170						\$1,650.0	\$1,720.0	8.2 8.6
177						\$1,790.0		8.9
178				#210 C			\$1,870.0	9.3
212 213		\$219.0		\$210.0				8.9 8.5
214				\$228.0				8.2
215		\$238.0		#2.10.0				7.9
216 217		\$258.0		\$248.0				7.5 7.2
218				\$274.0				6.8
219		\$291.0			1			6.4

Commentary: In Rounds 38 through 96, Bragg continually bids up the price of the unrestricted 10 MHz block despite the fact that the identical set-aside block is available for as little as one-fifth of the price of the unrestricted block. In Round 127, Bragg is outbid for the set-aside license at \$201,000, yet does not respond by bidding higher on the set-aside. Instead, in Rounds 128 through 177, Bragg begins bidding on the identical unrestricted block at more than eight times what the set-aside is available for. Bragg and TELUS are the only remaining bidders in the late rounds of the unrestricted auction. In the end, Bragg does not win either auction.

Appendix D Bids Out of Value in Late Rounds Service Area 304 - Cape Breton

		204d 10 M	Uz Cot Acido		3040	10 MHz Unwe	twisted	Ratio of	
	Bragg	Globalive	Hz Set-Aside 9193-2962		Bragg	10 MHz Unres Globalive	TELUS	Unrestricted to	
Round	Comm. Inc.	Wireless	Quebec Inc.	SaskTel	Comm. Inc.	Wireless	Comm. Inc.	Set-Aside High Bids	
20							\$162.4		
25		\$162.4						1.0	
29					\$179.0			1.1	
30							\$197.0	1.2	
31					\$217.0		****	1.3	
32 35					\$259.0		\$239.0	1.5	
36					\$239.0		\$280.0	1.6 1.7	
38					\$303.0		φ260.0	1.9	
39					φ303.0		\$328.0	2.0	
40					\$355.0			2.2	
41							\$384.0	2.4	
42					\$415.0			2.6	
43							\$449.0	2.8	
48					\$467.0		*	2.9	
49					¢506.0		\$486.0	3.0	
50 51					\$506.0		\$527.0	3.1 3.2	
52					\$549.0		\$321.0	3.4	
53					\$347.0		\$571.0	3.5	
57					\$594.0		φ5/110	3.7	
58							\$618.0	3.8	
62					\$643.0			4.0	
63							\$669.0	4.1	
64					\$696.0			4.3	
65							\$724.0	4.5	
66					\$753.0		65040	4.6	
67					00160		\$784.0	4.8	
68 71					\$816.0		\$849.0	5.0 5.2	
72			\$169.0				φ042.0	5.0	
73		\$176.0						4.8	
83		721010			\$883.0			5.0	
84							\$919.0	5.2	
88					\$956.0			5.4	
89							\$995.0	5.7	
98						\$1,040.0		5.9	
99					01.110.0		\$1,090.0	6.2	
109					\$1,140.0		\$1,190.0	6.5	
110 117					\$1,240.0		\$1,190.0	6.8 7.0	
118					\$1,240.0		\$1,290.0	7.3	
122	\$184.0						ψ1,270.0	7.0	
124	7-2-11	\$192.0						6.7	
125	\$200.0							6.5	
127		\$200.0						6.5	
128					\$1,350.0			6.8	
129							\$1,410.0	7.1	
132					\$1,470.0		44.500	7.4	
133					61 (00 0		\$1,530.0	7.7	
151 152					\$1,600.0		\$1,670.0	8.0 8.4	
168					\$1,740.0		φ1,070.0	8.7	
175					φ1,740.0		\$1,810.0	9.1	
177					\$1,890.0		, , , , , , , , , , , , , , , , , , , ,	9.5	
178							\$1,970.0	9.9	
212				\$208.0				9.5	
213		\$217.0						9.1	
214				\$226.0				8.7	
215		\$236.0						8.3	
216		#27.		\$246.0				8.0	
217		\$256.0		¢272.0				7.7	
218 219		\$289.0		\$272.0				7.2 6.8	
219		\$289.0						0.0	

Commentary: In Rounds 31 through 117, Bragg continually bids up the price of the unrestricted 10 MHz block despite the fact that the identical set-aside block is available for as little as one-seventh of the price of the unrestricted block. In Round 127, Bragg is outbid for the set-aside license at \$200,000, yet does not respond by bidding higher on the set-aside. Instead, in Rounds 128 through 177, Bragg begins bidding on the identical unrestricted block at more than nine times what the set-aside is available for. In the end, Bragg does not win either auction.

Appendix D Bids Out of Value in Late Rounds Service Area 314 - Upper Outaouais

	314d - 10 MI	Hz Set-Aside		314e - 10 MH	z Unrestricted		Ratio of Unrestricted to
	Globalive	9193-2962	Bell Mobility	Globalive	9193-2962	TELUS	
Round	Wireless	Quebec Inc.	Inc.	Wireless	Quebec Inc.	Comm. Inc.	Set-Aside High Bids
1	•	\$304.9					
37						\$304.9	1.0
38			\$330.0				1.1
39	\$330.0						1.0
40		\$357.0					0.9
44	\$386.0						0.9
45		\$402.0					0.8
53	\$419.0						0.8
54					\$344.0		0.8
55			\$358.0				0.9
56					\$373.0		0.9
57			\$388.0				0.9
58					\$404.0		1.0
59			\$421.0				1.0
60					\$438.0		1.0
61			\$456.0				1.1
62		\$436.0					1.0
65	\$454.0						1.0
66		\$473.0					1.0
71	\$492.0						0.9
72		\$512.0					0.9
74					\$475.0		0.9
75			\$494.0			\$494.0	1.0
76					\$514.0		1.0
77			\$535.0				1.0
231				\$568.0			1.1
232			\$603.0				1.2
297				\$640.0			1.3
298			\$679.0		_		1.3

Commentary: In rounds 231 and 297, Globalive submits bids of \$568,000 and \$640,000 for the unrestricted block despite the fact that the identical set-aside is available for a lower price, and the fact that in Round 72 Globalive was outbid at \$512,000 for the set-aside and did not respond by bidding higher. In the end, Globalive does not win either auction.

Contrast this with the rational bidding behavior of other entrants such as Quebec Inc. Between Rounds 60 and 62, Quebec Inc. switches from bidding on the unrestricted block to bidding on the set-aside once the set-aside becomes more expensive. After Round 76, it ceases bidding on the unrestricted auction once the price is bid up past its high bid of \$512,000 on the set-aside. In the end, Quebec Inc. wins the set-aside block.

Appendix D Bids Out of Value in Late Rounds Service Area 317 - Abitibi

	317d	- 10 MHz Set-A	Aside			Ratio of Unrestricted to		
	Globalive	2096901	9193-2962	Bell Mobility	317e - 10 MHz Globalive	9193-2962	TELUS	
Round	Wireless	Ontario Inc.	Quebec Inc.	Inc.	Wireless	Quebec Inc.	Comm. Inc.	Set-Aside High Bids
1	* 40.0		\$40.0					
33 34	\$48.0		\$56.0					
35	\$64.0		\$30.0				\$40.0	0.6
36	ψ04.0		\$72.0				Ψ+0.0	0.6
39	\$80.0							0.5
40			\$88.0					0.5
43	\$96.0							0.4
44			\$104.0					0.4
45	\$112.0		¢120.0					0.4
46 47			\$120.0		\$48.0			0.3
48					φ46.0		\$56.0	0.5
51	\$128.0						Ψ30.0	0.4
52	·					\$64.0		0.5
53							\$72.0	0.6
54						\$80.0		0.6
55							\$88.0	0.7
56						\$96.0	01010	0.8
57						¢112.0	\$104.0	0.8
58 59						\$112.0	\$120.0	0.9 0.9
60					\$128.0	\$128.0	\$120.0	1.0
61					Ψ120.0	\$136.0	\$136.0	1.1
62			\$136.0		\$144.0	7.20.000	7-2-313	1.1
63							\$152.0	1.1
64					\$160.0			1.2
65	\$144.0						\$168.0	1.2
66	#160.0		\$152.0			01760		1.1
72 73	\$160.0		¢169.0			\$176.0	¢1040	1.1
79			\$168.0		\$192.0		\$184.0	1.1 1.1
80					\$192.0		\$200.0	1.2
82				\$208.0			Ψ200.0	1.2
83				,			\$217.0	1.3
84				\$226.0				1.3
88					\$236.0			1.4
89				\$246.0				1.5
90				ф2 <i>6</i> 7.0	\$256.0			1.5
93 105				\$267.0			\$278.0	1.6 1.7
105				\$290.0			\$278.0	1.7
107				Ψ270.0			\$302.0	1.8
108				\$315.0			+= -	1.9
109							\$328.0	2.0
110				\$342.0				2.0
111							\$356.0	2.1
112				\$371.0			#20 C O	2.2
113				\$402.0	\$402.0		\$386.0	2.3 2.4
115 116				\$402.0	\$402.0		\$419.0	2.4
117				\$436.0			Φ 4 17.U	2.6
118				φ+50.0			\$454.0	2.7
119						\$473.0	4.5	2.8
127		\$176.0						2.7
129			\$184.0					2.6
130		\$192.0						2.5
131			\$200.0					2.4

Bids Out of Value in Late Rounds Service Area 317 - Abitibi

	317	d - 10 MHz Set-A	side		317e - 10 MH	Iz Unrestricted		Ratio of Unrestricted to
	Globalive	2096901	9193-2962	Bell Mobility	Globalive	9193-2962	TELUS	I
Round	Wireless	Ontario Inc.	Quebec Inc.	Inc.	Wireless	Quebec Inc.	Comm. Inc.	Set-Aside High Bids
134		\$208.0					\$492.0	2.4
135			\$217.0			\$512.0		2.4
136							\$533.0	2.5
137						\$555.0		2.6
138		\$226.0					\$578.0	2.6
139			\$236.0			\$602.0		2.6
140							\$627.0	2.7
141						\$653.0		2.8
142							\$680.0	2.9
143						\$708.0		3.0
144		\$246.0					\$737.0	3.0
145			\$256.0					2.9
146						\$767.0		3.0
147							\$798.0	3.1
148						\$830.0		3.2
149							\$864.0	3.4
150		\$267.0				\$899.0		3.4
151			\$278.0				\$935.0	3.4
152						\$973.0		3.5
153							\$1,020.0	3.7
154		\$290.0						3.5
155			\$302.0					3.4
160		\$315.0						3.2
161			\$328.0					3.1
162		\$342.0						3.0
163			\$356.0					2.9
186						\$1,070.0		3.0
187							\$1,120.0	3.1
294					\$1,190.0			3.3
295							\$1,270.0	3.6

Commentary: In Round 73, Globalive is outbid for the set-aside at \$168,000 yet does not bid any higher on the set-aside. Instead, in Rounds 79 through 116, Globalive bids as much as twice as much for the identical unrestricted block. Then in Round 294, Globalive submits a single bid of \$1,190,000 (almost three times higher than its previous bid several rounds earlier) for the unrestricted block despite the fact that the set-aside is available for less than one-third the price. In the end, Globalive does not win either auction.

Contrast this with the rational bidding behavior of other entrants such as Quebec Inc. In Round 62, Quebec Inc. switches from bidding on the unrestricted to bidding on the set-aside when the set-aside block reaches the same price. In the end, Quebec Inc. wins the set-aside block.

Appendix D Bids Out of Value in Late Rounds Service Area 324 - Huntsville

	224.	J 10 MII-C-4 A-		İ	224- 10 MH	- TI4\$-43		Ratio of
	-	d - 10 MHz Set-As	_	D-4- 8 A12-	324e - 10 MHz		TELLIC	Unrestricted to
Downd	Globalive Wireless	2096901 Ontario Inc.	Rich Telecom	Data & Audio Visual	Globalive Wireless	2096901 Ontario Inc.	TELUS Comm. Inc.	Set-Aside High Bids
22	vvii eless	Ontario inc.	Telecom	visuai	vvii eless	Ontai io inc.	\$205.8	Set-Aside High Dids
36	\$205.8						Ψ203.6	1.0
62	Ψ20010			\$215.0				1.0
63				4			\$224.0	1.1
71						\$233.0		1.1
72							\$243.0	1.2
75					\$253.0	\$253.0		1.2
76							\$264.0	1.3
77					\$275.0			1.3
78							\$286.0	1.4
79					\$298.0			1.4
80							\$310.0	1.5
83						\$323.0	\$22.5 0	1.6
84						#250.0	\$336.0	1.6
87						\$350.0	¢264.0	1.7
88 89					\$379.0		\$364.0	1.8 1.8
90					\$379.0		\$395.0	1.9
90			\$215.0				\$393.0	1.8
99			Φ215.0			\$411.0		1.9
100						ψ-11.0	\$428.0	2.0
101		\$224.0					ψ120.0	1.9
102		Ψ22.110	\$233.0					1.8
106		\$243.0						1.8
107			\$253.0					1.7
108		\$264.0			\$446.0			1.7
109			\$275.0				\$464.0	1.7
110			\$286.0					1.6
119					\$483.0			1.7
133							\$503.0	1.8
142		\$298.0						1.7
143		#222 0	\$310.0					1.6
148	#226.0	\$323.0	ф22 C О					1.6
149	\$336.0		\$336.0					1.5
150 151	\$364.0		\$350.0					1.4 1.4
152	\$304.0		\$379.0					1.3
153			\$395.0					1.3
155			φυνυ	Γ	\$524.0			1.3
156					φυ2σ		\$545.0	1.4
159	\$411.0						40.000	1.3
160			\$428.0					1.3
165	\$446.0							1.2
166			\$464.0					1.2
167	\$483.0							1.1
168			\$503.0					1.1
190					\$567.0			1.1
191							\$590.0	1.2
192					\$614.0			1.2
193					0.000		\$639.0	1.3
194				L	\$665.0		0.000	1.3
195							\$692.0	1.4

Commentary: In Round 168, Globalive is outbid for the set-aside block at \$503,000, yet does not bid any higher on the set-aside. However, in Rounds 155 through 194, it submits higher bids ranging from \$524,000 to \$665,000 on the identical unrestricted block. In the end, Globalive does not win either block.

Contrast this with the rational behavior of other entrants such as Ontario Inc. Between Rounds 99 and 101, it switches from bidding on the unrestricted block to bidding on the set-aside once the unrestricted block becomes almost twice as expensive as the set-aside.

Appendix D Bids Out of Value in Late Rounds Service Area 326 - Barrie

	3260	l - 10 MHz Set-As	side		326e - 10 MHz	Unrestricted		Ratio of Unrestricted to
	Bragg	Data & Audio	Globalive	Data & Audio	Globalive		TELUS	
Round	Comm. Inc.	Visual	Wireless	Visual	Wireless	SaskTel	Comm. Inc.	Set-Aside High Bids
1							\$1,682.9	
35		\$1,682.9	\$1,682.9	_				1.0
36		\$1,820.0			\$1,820.0			1.0
37							\$1,970.0	1.1
38					\$2,130.0			1.2
39							\$2,310.0	1.3
44					\$2,500.0			1.4
45							\$2,600.0	1.4
49	\$1,900.0							1.4
50		\$1,980.0						1.3
51	\$2,060.0			\$2,710.0				1.3
52		\$2,150.0					\$2,820.0	1.3
53	\$2,240.0				\$2,940.0			1.3
54		\$2,330.0					\$3,060.0	1.3
55	\$2,430.0							1.3
56				\$3,190.0				1.3
57							\$3,320.0	1.4
58				\$3,460.0				1.4
59							\$3,600.0	1.5
60		\$2,530.0						1.4
61	\$2,640.0							1.4
62				\$3,750.0				1.4
63					_		\$3,900.0	1.5
158						\$4,060.0		1.5
160							\$4,230.0	1.6
164						\$4,400.0		1.7
165							\$4,580.0	1.7
166						\$4,770.0		1.8
167							\$4,970.0	1.9

Commentary: In Round 36, Globalive is outbid for the set-aside block at \$1,820,000, yet does not respond by bidding any higher on the set-aside. Instead, in Rounds 36 through 53, Globalive bids up the price of unrestricted block while the set-aside is available for a lower price. Then, in Round 158, after 94 rounds of inactivity for both blocks, SaskTel bids up the price of the unrestricted block to \$4,770,000 while the identical set-aside block is available at a lower price. SaskTel never bids on the set-aside. Also, Barrie does not appear to be in SaskTel's core service area, Saskatchewan. Neither Globalive nor SaskTel wins either block.

Appendix D Bids Out of Value in Late Rounds Service Area 327 - Guelph/Kitchener

	327d	l - 10 MHz Set-As	side		327e - 10 MHz	Unrestricted		Ratio of Unrestricted to
	Bragg	Data & Audio	Globalive	Data & Audio	Globalive		TELUS	
Round	Comm. Inc.	Visual	Wireless	Visual	Wireless	SaskTel	Comm. Inc.	Set-Aside High Bids
1							\$1,727.5	
35		\$1,727.5	\$1,727.5	_				1.0
36		\$1,870.0			\$1,870.0			1.0
37							\$2,020.0	1.1
38					\$2,190.0			1.2
39							\$2,370.0	1.3
44					\$2,560.0			1.4
45							\$2,670.0	1.4
49	\$1,950.0							1.4
50		\$2,030.0						1.3
51	\$2,120.0							1.3
52		\$2,210.0						1.2
53	\$2,300.0				\$2,780.0			1.2
54		\$2,400.0					\$2,900.0	1.2
55	\$2,500.0				\$3,020.0			1.2
56							\$3,150.0	1.3
60		\$2,600.0						1.2
62				\$3,280.0				1.3
63							\$3,420.0	1.3
110					\$3,560.0			1.4
111							\$3,710.0	1.4
158						\$3,860.0		1.5
159							\$4,020.0	1.5
160						\$4,190.0		1.6
163							\$4,360.0	1.7
168						\$4,540.0		1.7
183				_			\$4,540.0	1.7
252					\$4,820.0			1.9
253							\$5,110.0	2.0

Commentary: In Round 36, Globalive is outbid for the set-aside block at \$1,870,000 yet does not bid any higher on the set-aside. Instead, during Rounds 36 through 110, Globalive submits bids of up to \$3,560,000 on the unrestricted block despite the fact that the identical set-aside block is available at a lower price. In Round 252, after 68 rounds of inactivity in both blocks, Globalive submits a bid of \$4,820,000 for the unrestricted block when the set-aside block is available for about half the price. During Rounds 158 through 168, SaskTel bids up the price of the unrestricted block to \$4,540,000 even though the set-aside is available at a lower price. SaskTel never submits a bid for the set-aside. Also, Guelph/Kitchener appears to be outside of SaskTel's core service area. In the end, neither Globalive nor SaskTel wins either block.

Appendix D Bids Out of Value in Late Rounds Service Area 329 - Niagara-St. Catharines

	3290	d - 10 MHz Set-A	side		329e - 10 MHz	Unrestricted		Ratio of Unrestricted to
	Bragg	Data & Audio	Globalive	Data & Audio	Globalive		TELUS	
Round	Comm. Inc.	Visual	Wireless	Visual	Wireless	SaskTel	Comm. Inc.	Set-Aside High Bids
20							\$1,010.2	
35			\$1,010.2					1.0
36					\$1,100.0			1.1
37							\$1,190.0	1.2
38					\$1,290.0			1.3
39							\$1,400.0	1.4
44					\$1,520.0			1.5
45		\$1,060.0					\$1,590.0	1.5
49	\$1,110.0							1.4
52		\$1,160.0		_				1.4
53	\$1,210.0	1			\$1,660.0			1.4
54		\$1,260.0					\$1,730.0	1.4
55	\$1,320.0							1.3
56		\$1,380.0		\$1,800.0				1.3
57							\$1,880.0	1.4
58				\$1,960.0				1.4
59							\$2,040.0	1.5
69				\$2,130.0				1.5
70							\$2,220.0	1.6
71				\$2,310.0				1.7
72							\$2,410.0	1.7
153					\$2,510.0			1.8
154				_			\$2,620.0	1.9
158						\$2,730.0		2.0
159							\$2,840.0	2.1

Commentary: In Round 45, Globalive is outbid for the set-aside block at \$1,060,000 yet does not bid any higher for the set-aside. Instead, in Rounds 53 and 153, Globalive submits bids of \$1,660,000 and \$2,510,000, respectively, while the set-aside is available for a lower price. In Round 158, SaskTel submits a single bid of \$2,730,000 for the unrestricted block when the identical set-aside was available at half the price. SaskTel never submits a bid for the set-aside. Also, St. Catherines would appear to be outside of SaskTel's core service area. In the end, neither Globalive nor SaskTel wins either block.

Appendix D Bids Out of Value in Late Rounds Service Area 334 - North Bay

		334d ·	- 10 MHz Set-A	Aside			334e - 10 MHz	Unrestricted		Ratio of Unrestricted to
Round	1380057 Alberta Ltd.	Bragg Comm. Inc.	Globalive Wireless	2096901 Ontario Inc.	Rich Telecom	Bragg Comm. Inc.	Globalive Wireless	2096901 Ontario Inc.	TELUS Comm. Inc.	Set-Aside High Bids
1	\$93.4	Comm. The.	Wireless	Ontario Inc.	reiccom		WITCHESS	Ontario inc.	Comm. ruc.	
26 32			\$103.0			\$93.4				1.0 0.9
33		\$114.0	Ψ103.0							0.8
35									\$101.0	0.9
36						\$110.0	6110.0		6110.0	1.0
37 38							\$119.0 \$129.0		\$119.0	1.0 1.1
39							ψ12 <i>3</i> .0		\$140.0	1.2
41					\$124.0					1.1
46				\$129.0	¢125.0			\$146.0	6152.0	1.1
47 48				\$141.0	\$135.0				\$152.0	1.1 1.1
49				\$111.0	\$147.0					1.0
50				\$153.0				\$159.0		1.0
51								6172.0	\$166.0	1.1
52 53								\$173.0	\$180.0	1.1 1.2
54							\$188.0	\$188.0	Ψ100.0	1.2
55					\$160.0				\$196.0	1.2
57				\$167.0	6174.0					1.2
58 59				\$181.0	\$174.0 \$181.0					1.1 1.1
60				\$101.0	Ψ101.0		\$204.0			1.1
61									\$213.0	1.2
62							\$222.0		6221.0	1.2
63 64							\$241.0		\$231.0	1.3 1.3
65							Ψ211.0		\$251.0	1.4
69								\$262.0		1.4
70								#204.0	\$273.0	1.5
76 77								\$284.0	\$296.0	1.6 1.6
82								\$308.0	Ψ270.0	1.7
83									\$321.0	1.8
85								\$334.0	6240.0	1.8
86 88								\$362.0	\$348.0	1.9 2.0
89								ψ302.0	\$377.0	2.1
93								\$393.0		2.2
94								0.426.0	\$409.0	2.3
95 96								\$426.0	\$444.0	2.4 2.5
100					\$189.0				7	2.3
101				\$197.0			\$462.0			2.3
102				6214.0	\$205.0				\$481.0	2.3
103 104				\$214.0	\$223.0					2.2 2.2
105				\$232.0	\$225.0					2.1
106					\$242.0					2.0
107				\$252.0	\$252.0					1.9
108 109				\$263.0	\$263.0 \$274.0					1.8 1.8
110					\$285.0					1.7
113						\$501.0				1.8
114 117			\$297.0						\$522.0	1.8 1.8
117		\$309.0	\$297.U							1.8
142				\$322.0						1.6
143		\$335.0								1.6
145		\$2C2.0			\$349.0					1.5 1.4
146 147		\$363.0			\$378.0					1.4
148		\$394.0			23.010					1.3
161							\$543.0			1.4
162				\$410.0					\$565.0	1.4 1.4
166 167		\$427.0		\$410.0						1.4
172				\$445.0						1.3
173		\$463.0								1.2
178							\$588.0		0.410.0	1.3
179 182				\$482.0					\$612.0	1.3 1.3
183		\$502.0		Q 102.0						1.2
190				\$523.0						1.2
191 304		\$544.0				-	6240.0			1.1
311/1							\$649.0			1.2

Commentary: In Round 122, Globalive is outbid for the set-aside block at \$309,000 yet it does not bid any higher on the set-aside block. However, in Rounds 101 through 178, Globalive bids up to \$588,000 for the restricted block even though the set-aside block is available at a lower price. In Round 304, after 112 rounds of inactivity for both blocks, Globalive submits a bid of \$649,000 for the unrestricted block when the set-aside is available for a lower price. In the end, Globalive does not win either block.

Appendix D Bids Out of Value in Late Rounds Service Area 345 - Medicine Hat/Brooks

	345d	- 10 MHz Set-A	side		345e - 10 MHz	Unrestricted		Ratio of Unrestricted to
	1380057	Globalive	Rich	1380057	Bell Mobility	Globalive	TELUS	
Round	Alberta Ltd.	Wireless	Telecom	Alberta Ltd.	Inc.	Wireless	Comm. Inc.	Set-Aside High Bids
1	\$234.4						\$234.4	1.0
23					\$258.0			1.1
54				\$269.0				1.1
55					\$280.0			1.2
56				\$292.0				1.2
57					\$304.0			1.3
58				\$317.0				1.4
59					\$330.0			1.4
60				\$344.0				1.5
61					\$358.0			1.5
62				\$373.0				1.6
63					\$388.0			1.7
64				\$404.0				1.7
65					\$421.0			1.8
66				\$438.0				1.9
67					\$456.0			1.9
104						\$475.0		2.0
107					\$494.0			2.1
128						\$514.0		2.2
129					\$535.0			2.3
152		\$244.0						2.2
153	\$254.0							2.1
164				\$557.0				2.2
166					\$580.0			2.3
167				\$604.0				2.4
168					\$629.0			2.5
169						\$655.0		2.6
170					\$682.0			2.7
171			\$265.0	\$710.0		\$710.0		2.7
172	\$276.0				\$739.0			2.7
173			\$288.0					2.6
174	\$300.0							2.5
175			\$312.0					2.4
176	\$325.0							2.3
177			\$338.0					2.2
178	\$352.0							2.1
179			\$367.0					2.0
180	\$382.0					\$769.0		2.0
181			\$398.0		\$800.0			2.0
182	\$414.0					\$832.0		2.0
183			\$431.0		\$866.0			2.0
184	\$449.0							1.9
185			\$467.0					1.9
186	\$486.0							1.8
187			\$506.0					1.7
188	\$527.0							1.6
189			\$549.0					1.6
190	\$571.0							1.5

Commentary: In Round 153, Globalive is outbid for the set-aside block at \$254,000 yet it does not bid any higher on the set-aside. However, during Rounds 104 through 182, Globalive bids up to \$832,000 on the unrestricted block even though the identical set-aside block is available for half the price. In the end, Globalive does not win either auction.

Appendix D Bids Out of Value in Late Rounds Service Area 346 - Lethbridge

	346d - 10 MH		12000.55	346e - 10 MHz			Ratio of Unrestricted to
Round	1380057 Alberta Ltd.	Rich Telecom	1380057 Alberta Ltd.	Bell Mobility Inc.	Globalive Wireless	TELUS Comm. Inc.	Set-Aside High Bids
1	\$208.4	Telecom	Alberta Ltu.	THC.	vvireless	\$208.4	1.0
23	Ψ200.4			\$230.0		Ψ200.4	1.1
44				Ψ250.0	\$249.0		1.2
45				\$259.0	Ψ247.0		1.2
54			\$270.0	Ψ237.0			1.3
55			4270.0	\$281.0			1.3
56			\$293.0	720000			1.4
57				\$305.0			1.5
58			\$318.0				1.5
59				\$331.0			1.6
60			\$345.0				1.7
61				\$359.0			1.7
62			\$374.0				1.8
63				\$389.0			1.9
68			\$405.0				1.9
69				\$422.0			2.0
70			\$439.0	.			2.1
71			* 4 7 5 0	\$457.0			2.2
72			\$476.0	0.406.0			2.3
73			¢5160	\$496.0			2.4
74 76			\$516.0	\$537.0			2.5 2.6
87			\$559.0	\$557.0			2.6
88			\$339.0	\$582.0			2.8
139			\$606.0	\$362.0			2.9
140			Ψ000.0	\$631.0	\$631.0		3.0
169			\$657.0	ψ051.0	ψ031.0		3.2
170			7 3 5 7 1 2	\$684.0			3.3
171		\$217.0					3.2
172	\$226.0				\$712.0		3.2
173		\$236.0		\$741.0			3.1
174	\$246.0				\$771.0		3.1
175		\$256.0		\$802.0			3.1
176	\$267.0				\$835.0		3.1
177		\$278.0		\$869.0			3.1
178	\$290.0						3.0
179		\$302.0					2.9
180	\$315.0	****					2.8
181	****	\$328.0					2.6
182	\$342.0	02560					2.5
183	0071.0	\$356.0					2.4
184 185	\$371.0	\$296 A					2.3 2.3
185 186	\$402.0	\$386.0					2.3
186	\$402.0	\$419.0					2.2
188	\$436.0	φ 4 17.0					2.0
189	Ψ+30.0	\$454.0					1.9
190	\$473.0	Ψ151.0					1.8
170	Ψ173.0						1.0

Commentary: In Rounds 44 through 176, Globalive bids up to \$835,000 for the unrestricted block when the set-aside block is available for a lower price. Globalive never submits a bid for the set-aside block. In the end, Globalive does not win either block.

Appendix D Bids Out of Value in Late Rounds Service Area 348 - Red Deer

		348d			348e					
	1380057	Data & Audio	Rich	1380057	Bell Mobility	Globalive	TELUS			
Round	Alberta Ltd.	Visual	Telecom	Alberta Ltd.	Inc.	Wireless	Comm. Inc.	Set-Aside High Bids		
1	\$264.8				#205.0		\$264.8	1.0		
3					\$305.0	#220 O		1.2		
44 45		\$276.0			\$344.0	\$330.0		1.2 1.2		
50		\$276.0		\$358.0	\$344.0			1.3		
51				Ψ330.0	\$373.0			1.4		
52				\$388.0	ψ373.0			1.4		
53					\$404.0			1.5		
54				\$421.0				1.5		
55					\$438.0			1.6		
74				\$456.0				1.7		
75					\$475.0			1.7		
76	\$288.0			\$494.0				1.7		
77	#212 0	\$300.0			\$514.0			1.7		
78	\$312.0							1.6		
79 80	\$338.0	\$325.0						1.6 1.5		
81	φ336.0	\$352.0						1.5		
98		ψ332.0				\$535.0		1.5		
99					\$557.0	φ222.0		1.6		
104					, , , , , ,	\$580.0		1.6		
105					\$604.0			1.7		
136						\$629.0		1.8		
137					\$655.0			1.9		
138						\$682.0		1.9		
139					\$710.0			2.0		
149					ф 7. 60.0	\$739.0		2.1		
150					\$769.0	\$800.0		2.2 2.3		
151 152					\$832.0	\$800.0		2.3		
165					ψ632.0	\$866.0		2.5		
167					\$901.0	ψοσο.σ		2.6		
191			\$367.0		4,000			2.5		
192		\$382.0						2.4		
193			\$398.0					2.3		
194		\$414.0						2.2		
195			\$431.0					2.1		
196		\$449.0						2.0		
199		\$10.50	\$467.0					1.9		
200		\$486.0	Φ50 C O					1.9		
201 202		\$527.0	\$506.0					1.8 1.7		
202		\$327.0	\$549.0					1.6		
203		\$571.0	φυτο.υ					1.6		
205		Ψ571.0	\$594.0					1.5		
206		\$618.0	, 5, 110					1.5		
207			\$643.0					1.4		
208		\$669.0						1.3		
309						\$956.0		1.4		
310					\$1,020.0			1.5		

Commentary: In Rounds 44 through 165, Globalive bids up to \$866,000 for the unrestricted block even though the identical set-aside block is available at a lower price. In Round 309, after 100 rounds of inactivity for both blocks, Globalive submits a bid of \$956,000 for the unrestricted block when the identical set-aside block is available for about two-thirds the price. In the end, Globalive fails to win either block.

Appendix D Bids Out of Value in Late Rounds Service Area 350 - Kootenays

	350d - 10 MH	z Set-Aside		Ratio of Unrestricted to			
	1380057	Globalive	1380057	350e - 10 MHz Bell Mobility	Globalive	TELUS	
Round	Alberta Ltd.	Wireless	Alberta Ltd.	Inc.	Wireless	Comm. Inc.	Set-Aside High Bids
1	\$232.3					\$232.3	1.0
3				\$268.0			1.2
84			\$279.0				1.2
85				\$291.0			1.3
86			\$303.0		\$303.0		1.3
87				\$316.0			1.4
89			\$329.0				1.4
93				\$343.0			1.5
98					\$357.0		1.5
100				\$372.0			1.6
115					\$387.0		1.7
116				\$403.0			1.7
126			\$420.0				1.8
127				\$437.0			1.9
128			\$455.0		\$455.0		2.0
129			\$474.0	\$474.0			2.0
130			\$493.0				2.1
131				\$513.0			2.2
132			\$534.0				2.3
133				\$556.0			2.4
148			\$579.0				2.5
149				\$603.0			2.6
162			\$628.0				2.7
163				\$654.0			2.8
196					\$681.0		2.9
197				\$709.0			3.1
256		\$247.0					2.9
257	\$262.0						2.7
313					\$752.0		2.9
314				\$798.0			3.0

Commentary: In Round 257, Globalive is outbid for the set-aside block at \$262,000 and does not bid any higher for the set-aside block. However, between Rounds 86 and 196, it bids up to \$681,000 for the unrestricted block when the identical set-aside block is available for less than half the price. In Round 313, after 115 rounds of inactivity for the unrestricted block, Globalive bids \$752,000 for the unrestricted block when the identical set-aside block is available for about one-third the price. In the end, Globalive does not win either block.

Appendix D Bids Out of Value in Late Rounds Service Area 353 - Victoria

		353d - 10 MH	Iz Set-Aside		353e - 10 MHz Unrestricted						Ratio of Unrestricted to
Round	1380057 Alberta Ltd.	Data & Audio Visual	Globalive Wireless	Novus Wireless Inc.	1380057 Alberta Ltd.	Bell Mobility Inc.	Globalive Wireless	Novus Wireless Inc.	Rogers Comm. Inc.	TELUS Comm. Inc.	Set-Aside High Bids
1	\$680.4									\$680.4	1.0
4					\$783.0						1.2
5						\$901.0					1.3
17				\$749.0				\$992.0			1.3
18	\$824.0					\$1,100.0					1.3
19			\$907.0	\$907.0				\$1,210.0			1.3
20	\$998.0					\$1,340.0				\$1,340.0	1.3
21				\$1,100.0				\$1,480.0			1.3
22	\$1,210.0					\$1,630.0					1.3
38			\$1,310.0								1.2
39	\$1,420.0					_					1.1
44							\$1,770.0				1.2
45		\$1,480.0				\$1,850.0					1.3
75					\$1,930.0						1.3
76						\$2,010.0					1.4
77	\$1,540.0										1.3
78		\$1,610.0									1.2
80	\$1,680.0										1.2
81		\$1,750.0									1.1
100									\$2,100.0		1.2
102						\$2,190.0					1.3
112							\$2,280.0				1.3
114						\$2,380.0					1.4
149							\$2,480.0				1.4
150						\$2,580.0					1.5
151							\$2,690.0				1.5
152						\$2,800.0					1.6

Commentary: In Round 39, Globalive is outbid for the set-aside block at \$1,420,000 and does not bid any higher for the set-aside block. However, between Rounds 44 and 151 Globalive bids up to \$2,690,000 for the unrestricted block when the identical set-aside block is available at a lower price. In the end, Globalive does not win either block.

Appendix D Bids Out of Value in Late Rounds Service Area 356 - Thompson/Cariboo

	356d - 10 MHz Set-Aside			Ratio of Unrestricted to				
	1380057	Rich	1380057	Bell Mobility	10 MHz Unrest Globalive	9193-2962	TELUS	Officeuricieu to
Round	Alberta Ltd.	Telecom	Alberta Ltd.	Inc.	Wireless	Quebec Inc.	Comm. Inc.	Set-Aside High Bids
1	\$304.6				***************************************	Queste mer	\$304.6	1.0
3	72			\$351.0			755	1.2
91					\$366.0			1.2
92				\$381.0				1.3
102					\$397.0			1.3
103				\$413.0				1.4
115					\$430.0			1.4
116				\$448.0				1.5
125						\$466.0		1.5
126					\$485.0			1.6
127						\$505.0		1.7
128					\$526.0	_		1.7
129				\$548.0				1.8
133			\$570.0					1.9
134				\$593.0				1.9
136					\$617.0			2.0
137				\$642.0				2.1
138					\$668.0			2.2
139				\$695.0				2.3
147					\$723.0			2.4
148				\$752.0				2.5
156				***	\$783.0			2.6
161				\$815.0	фо. 1 0. 0			2.7
165				¢00 2 0	\$848.0			2.8
166 209		¢217.0		\$882.0				2.9 2.8
210	\$330.0	\$317.0						2.8
210	\$330.0	\$344.0						2.6
211	\$358.0	\$344.0						2.5
213	φ336.0	\$373.0						2.4
214	\$388.0	ψ373.0						2.3
215	Ψ500.0	\$404.0						2.2
216	\$421.0	Ψ10110						2.1
217	7	\$438.0						2.0
218	\$465.0							1.9
219		\$493.0						1.8
220	\$523.0							1.7
221		\$555.0						1.6
222	\$589.0							1.5
296					\$935.0			1.6
297				\$992.0				1.7

Commentary: Without ever bidding on the identical and less expensive set-aside, Globalive bids up to \$848,000 for the unrestricted block. Then in Round 296, after 129 rounds of inactivity for the unrestricted block, Globalive bids \$935,000 for the unrestricted block when the identical set-aside block is available for two-thirds the price. In Rounds 125 and 127, Quebec Inc. bids on the unrestricted block having never bid on the less expensive identical set-aside block. In the end, neither Globalive nor Quebec Inc. wins either auction.

Appendix D Bids Out of Value in Late Rounds Service Area 357 - Prince George

	255 1 10 MH	. C.4 A .* 1.		255	10 MIL II.	.4.1		Ratio of
	357d - 10 MH 1380057	Rich	1380057	Bell Mobility	10 MHz Unrest Globalive	9193-2962	TELUS	Unrestricted to
Round	Alberta Ltd.	Telecom	Alberta Ltd.	Inc.	Wireless	Quebec Inc.	Comm. Inc.	Set-Aside High Bids
1	\$349.6	Telecom	Alberta Ltu.	IIIC.	WITCIESS	Quebec Inc.	\$349.6	1.0
3	φ349.0			\$403.0			\$347.0	1.0
78			\$420.0	Ψ+03.0				1.2
79			Ψ+20.0	\$437.0				1.3
113				Ψ137.0	\$455.0			1.3
114				\$474.0	Ψ-33.0			1.4
125				ψ171.0		\$493.0		1.4
129				\$513.0		Ψ175.0		1.5
130				ψ313.0	\$534.0			1.5
131				\$556.0	Ψ354.0			1.6
133			\$579.0	Ψ220.0				1.7
134			\$277.0	\$603.0				1.7
136				7 0 0 0 1 0	\$628.0			1.8
137				\$654.0				1.9
138				·	\$681.0			1.9
139				\$709.0				2.0
162					\$738.0			2.1
163				\$768.0				2.2
164					\$799.0			2.3
166				\$831.0				2.4
177					\$865.0			2.5
178				\$900.0				2.6
223		\$371.0						2.4
224	\$394.0							2.3
225		\$418.0						2.2
226	\$444.0							2.0
227		\$471.0						1.9
228	\$500.0							1.8
229		\$530.0						1.7
230	\$562.0							1.6
307					\$954.0			1.7
308				\$1,020.0				1.8

Commentary: From Round 113 to 307, Globalive bids the price of the unrestricted block up to \$954,000 without ever bidding on the less expensive identical set-aside block which was available at about half the price. In Round 125, Quebec Inc. submits a single bid for the unrestricted block having never bid on the less expensive identical set-aside block. In the end, neither Globalive nor Quebec Inc. wins either auction.