

# INSTITUTIONAL RESEARCH

# **Emerging Growth**UPDATE REPORT

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# 22nd Century Group, Inc. (NYSE AM: XXII)

June 11, 2021

# **Buy: 5 Years of Cash and Strengthened Hemp Position**

Post the company's equity raise, 22nd Century has a pro forma cash balance of close to \$70 million, or over 5 years of cash at recent burn rates. With recent actions, the company has strengthened its position in the hemp/cannabis market. We still expect FDA approval of the company's MRTP application this year, and a rulemaking for a low-nicotine mandate could also occur this year. Both of these, we believe, are potential major catalysts for the shares. We reiterate our Buy recommendation and \$7 target.

22<sup>nd</sup> Century raised \$40 million in gross proceeds, \$38.2 million net, from the sale of 10 million shares to one investor, bringing pro forma cash to almost \$70 million, or over 5 years of cash at recent burn rates. However, we believe the burn rate can decline with successful monetization of the company's tobacco IP and initiatives in hemp and cannabis. The stronger balance sheet will, in our view, provide greater negotiating leverage to the company in the case where a low-nicotine mandate is implemented, provide greater resources to roll out a VLN cigarette if and when the MRTP is approved, build out the hemp/cannabis franchise and acquire additional IP in the existing or new franchises.

The company reiterated its expectation of licensing and revenue to begin in the second half of this year from the IP it shares with Aurora Cannabis (NASDAQ: ACB, \$9.89, Not Rated). Recently, Aurora announced the formation of a Science & Innovation Business Unit to commercialize technology that enables cannabinoid biosynthesis in plants and microorganisms. Aurora and 22nd Century Group share the global intellectual property (IP) rights to certain patents and patent applications relating to genes in the hemp/cannabis plant required for the production of cannabinoids in the cannabis plant. The two are working closely together to enforce their IP against infringing parties and explore commercial development opportunities.

A new Canadian subsidiary has been created to allow the company to pursue opportunities in recreational and medical cannabis.  $22^{nd}$  Century has exclusive rights in the U.S. and co-exclusive rights, with Aurora, everywhere else in the world (except Canada) to patents and patent applications of genes required to produce cannabinoids in the cannabis plant. This subsidiary allows greater flexibility to pursue R&D projects given the changing legal status of hemp and cannabis globally.

**Valuation:** Our \$7 price target is the sum of: \$3.08/share for the VLN asset, \$3.18/share for the low-nicotine mandate and \$0.74 for the hemp/cannabis franchise.

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| Current Price                                   |       |             |      |           |        | \$4.62    |  |  |  |
|---|-------|-------------|------|-----------|--------|-----------|--|--|--|
| Price Target                                    |       |             |      |           |        | \$7.00    |  |  |  |
| Estimates                                       |       | )20A        |      | 021E      |        | 022E      |  |  |  |
| Revenues (\$000s)                               | \$    | 28,111      |      | 29,806 E  |        | 32,000    |  |  |  |
| 1Q March  | \$    | 7,058       |      | 6,806 A   |        | 9,500     |  |  |  |
| 2Q June   | \$    | 6,435       | \$   | 7,000 E   | \$     | 7,500     |  |  |  |
| 3Q September                                    | \$    | 7,310       | \$   | 7,000 E   | \$     | 7,500     |  |  |  |
| 4Q December                                     | \$    | 7,308       | \$   | 9,000 E   | \$     | 7,500     |  |  |  |
|   |       | )20A        |      | 021E      |        | 022E      |  |  |  |
| EPS (diluted)                                   | \$    | (0.14)      | \$   | (0.11)E   |        | (0.10)    |  |  |  |
| 1Q March  | \$    | (0.03)      | \$   | (0.03)A   |        | (0.02)    |  |  |  |
| 2Q June   | \$    | (0.04)      | \$   | (0.03)E   |        | (0.03)    |  |  |  |
| 3Q September                                    | \$    | (0.03)      | \$   | (0.03)E   |        | (0.03)    |  |  |  |
| 4Q December                                     | \$    | (0.05)      | \$   | (0.02)E   | \$     | (0.03)    |  |  |  |
|   | _     | (4.5.0)     | Ţ    | (45.5)    | Ţ      | (45.5)    |  |  |  |
| EBITDA (\$Ms)                                   | \$    | (16.0)      | \$   | (15.5)    | \$     | (15.7)    |  |  |  |
| EV/EBITDA (x)                                   |       | -42.6x      |      | -44.0x    |        | -43.4x    |  |  |  |
| Stock Data                                      |       |             |      |           |        |           |  |  |  |
| 52-Week Range                                   |       | \$0.55      |      | -         |        | \$6.07    |  |  |  |
| Shares Outstanding (mil.)                       |       |             |      |           |        | 162.6     |  |  |  |
| Market Capitalization (mil                      | l.)   |             |      |           |        | \$751     |  |  |  |
| Enterprise Value (mil.)                         |       |             |      |           |        | \$682     |  |  |  |
| Debt to Capital                                 |       |             |      |           |        | 1%        |  |  |  |
| Book Value/Share                                |       |             |      |           |        | \$0.34    |  |  |  |
| Price/Book                                      |       |             |      |           |        | 13.4x     |  |  |  |
| Average Three Months Tr                         | adin  | g Volum     | ie ( | K)        |        | 2,748     |  |  |  |
| Insider Ownership                               |       |             |      |           |        | 2.7%      |  |  |  |
| Institutional Ownership                         |       |             |      |           |        | 27.1%     |  |  |  |
| Short interest (mil.)                           |       |             |      |           |        | 6.9%      |  |  |  |
| Dividend / Yield                                |       |             |      | 9         | 0.0    | 0/0.0%    |  |  |  |
| 22nd Century Grou                               | ın I  | nc (YYII    | -119 |           |        | ,,        |  |  |  |
| 30.000 Volume (Thousands)                       | ap, i | iic. (AAii  | -0.  |           | rice ( | (USD)     |  |  |  |
| 25.000  |       |             |      |           | i      | 6         |  |  |  |
| 20.000  |       |             |      | Μ         | 1      |           |  |  |  |
| 15,000 -  |       |             |      | 1 ~~      | 1      | -3        |  |  |  |
| 10,0002   |       |             |      |           |        |           |  |  |  |
| 5,000   |       |             |      |           |        |           |  |  |  |
| Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May |       |             |      |           |        |           |  |  |  |
|   |       | y Group, In |      | Source: F |        |           |  |  |  |
|   |       |             |      | Source. F | 4010   | 0.7 11003 |  |  |  |

**Risks to Target:** Our price target assumes approval of the company's MRTP application and a nicotine mandate, which could be delayed or may not be approved. Finding a partner for the VLN business could take longer than estimated and/or on different terms than assumed. The nicotine mandate may take longer to decide, and the transition period could be longer than estimated. There is no guarantee the industry will use 22<sup>nd</sup> Century's solution and it may opt to focus on other nicotine delivery systems as regulation of the combustible cigarette market increases. This could affect our assumptions on the royalty rate and market share.

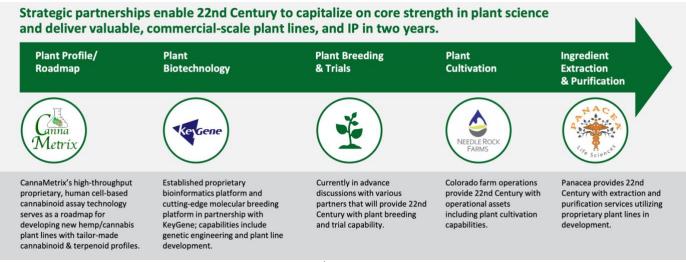


In the Aurora Cannabis earnings call in May of this year, CEO Miguel Martin said Aurora and 22nd Century were working together to defend IP from infringing parties and exploring commercial development opportunities. Aurora believes the technology can lead to more efficient ways to produce cannabinoids, specifically minor cannabinoids, which can be less than 1% of the plant. Aurora wants to use the cannabinoid molecules, including minor cannabinoids, to create custom products for the U.S. market, which it serves through its Reliva business unit. Currently, Reliva sells CBD isolate to U.S. consumers through 23,000 retail outlets and believes it is the top-ranked CBD brand. (Source: Aurora fiscal Q3 2021 EPS transcript, May 13, 2021). Mr. Martin was CEO of Reliva before Aurora's acquisition in 2020. Martin has lofty ambitions for Reliva and states he "would not be surprised if the non-THC parts of our portfolio and are ultimately as big as the THC parts of our portfolio, particularly with positive FDA action in the U.S." (Source Aurora fiscal Q3 2021 EPS transcript, May 13, 2021).

On its latest earnings conference call, 22nd Century CEO Jim Mish stated the company expected monetization of its existing library of IP through an upfront license fee in the \$2 million to \$3 million range. Given Aurora's recent announcement, it seems reasonable to assume this fee would be the result of its work with Aurora or a license to Aurora since 22nd Century owns the U.S. rights to this technology. We have included \$2 million in license revenue in our Q4 estimates. We believe as the CBD market develops globally, additional license fees and/or royalties could be generated from the company's IP.

This week,  $22^{nd}$  Century also announced it has entered into strategic partnerships with two plant breeders, one in the northern hemisphere, the other in the southern hemisphere. This provides it with year-round growing capabilities and greater scale. Also, we expect the company to take ownership of Needle Rock Farms in Colorado when it completes the restructuring of its investment and business relationships with Panacea in the coming months.

22<sup>nd</sup> Century has assembled a portfolio of assets to pursue the hemp and cannabis markets. It has made substantial progress building out its hemp/cannabis franchise by targeting the upstream segments of the cannabinoid value chain. Its goal is to deliver commercial-scale plant lines and intellectual property for the life science, consumer product, and pharmaceutical end-use markets. Partnerships with CannaMetrix, KeyGene, and Panacea address creation of plant profiles, seeds with specific genetic characteristics, plant cultivation and extraction. The consummation of agreements with plant breeders completes the capabilities it believes are necessary to have a full-service suite for the market.



Source: 22<sup>nd</sup> Century Group, Inc.

A license fee is the first revenue event expected for the hemp/cannabis franchise this year and we have modeled revenue in 2022 from sale of the harvest of a strain of hemp with elevated levels of CBG and CBD-CBG combination currently under cultivation. The company expects revenue in Q4, but we have assumed it occurs in Q1 next year. The company expects additional crop sales as it develops new strains and garners purchase commitments from producers of CBD isolates and end-user products.

22<sup>nd</sup> Century's investment and business relationship with Panacea is being restructured, and this will give the company greater control over plant cultivation and extraction and purification technology. 22<sup>nd</sup> Century and Panacea have entered into a non-binding agreement to transfer \$7.2 million of assets from Panacea in exchange for cancellation of a \$7 million convertible note receivable and removal of any future investment rights and obligations of 22<sup>nd</sup> Century to invest in Panacea. The agreement will also cancel 22<sup>nd</sup> Century's warrant to purchase additional Series B preferred stock of Panacea. The assets received by 22<sup>nd</sup> Century, assuming completion of the agreement under their current terms, include an agricultural facility and various extraction and distillation equipment.



Our price target of \$7 comprises three components: We attribute about \$3.08/share for the VLN asset. The non-addictive nicotine mandate is valued at \$3.18 per share. The remainder of the price target, or \$0.74 per share, equals about \$112 million and encompasses its investment in Panacea, the Anandia licenses and the potential from its relationship with KeyGene. We have assumed a long gestation period for the hemp/cannabis business because it is in the early stages. However, the Aurora announcement and the restructuring of the Panacea investment could be catalysts to more rapid development of the market and  $22^{nd}$  Century's monetization efforts.

**Price Target.** Our \$7 price target is the sum of the estimated values of the VLN, non-addictive nicotine and hemp franchises. We attribute about \$3.08/share for the VLN asset. The non-addictive nicotine mandate is valued at \$3.18 per share. The remainder of the price target comprises the investment in the hemp business and the relationship with KeyGene.

## Risk Analysis

The tobacco industry is highly regulated, and our price target depends on approval of the company's MRTP application and a nicotine mandate, which could be delayed or may not be approved. Our price target assumes the company will find a partner for the VLN business and this could take longer than estimated and/or the partner could demand different terms than assumed. The nicotine mandate may take longer to decide, and the transition period could be longer than estimated. There will likely be other paths attempted by the industry to comply or the industry may opt to focus on other nicotine delivery systems as regulation of the combustible cigarette market increases. This could affect our assumptions on the royalty rate as well as market share.



# **Exhibit 1. Income Statement**

(\$ in 000s, except per-share data)

| (\$\psi \text{in 600s, except per-share} |      |          |                |      |          |     |          |    |          |    |          |    | 1        |                |                |
|--|------|----------|----------------|------|----------|-----|----------|----|----------|----|----------|----|----------|----------------|----------------|
|  |      | 2018     | 2019           |      | 2020     | C   | Q1 21 A  | (  | Q2 21 E  | (  | Q3 21 E  | (  | Q4 21 E  | 2021 E         | 2022 E         |
| Revenue                                  | \$   | 26,426   | \$<br>25,833   | \$   | 28,111   | \$  | 6,806    | \$ | 7,000    | \$ | 7,000    | \$ | 9,000    | \$<br>29,806   | \$<br>32,000   |
| Cost Of Goods Sold                       | - 18 | 25,527   | 25,818         | - 20 | 26,673   | 7.8 | 6,159    |    | 6,159    |    | 6,159    |    | 6,159    | 24,636         | 26,000         |
| Gross Profit                             |      | 899      | 14             |      | 1,438    |     | 647      |    | 841      |    | 841      |    | 2,841    | 5,170          | 6,000          |
|  |      |          |                |      | 5.1%     |     | 9.5%     |    |          |    |          |    |          |                |                |
| R&D                                      |      | 14,990   | 8,057          |      | 4,128    |     | 701      |    | 701      |    | 701      |    | 701      | 2,804          | 2,944          |
| G&A                                      |      | 7,658    | 12,956         |      | 14,971   |     | 4,829    |    | 4,829    |    | 4,829    |    | 5,418    | 19,905         | 20,900         |
| Impairment Charge                        |      | 0        | 1,142          |      | 176      |     | 0        |    | 0        |    | 0        |    | 0        | 0              | 0              |
| Sales & marketing                        |      | 927      | 0              |      | 0        |     | 0        |    | 0        |    | 0        |    | 0        | 0              | 0              |
| Depreciation & Amort.                    |      | 1,342    | 1,425          |      | 1,346    |     | 288      |    | 288      |    | 288      |    | 288      | 1,152          | 1,152          |
| Opex                                     |      | 24,918   | 23,581         |      | 20,621   |     | 5,818    |    | 5,818    |    | 5,818    |    | 6,407    | 23,861         | 24,996         |
| Operating Income                         | \$   | (24,019) | \$<br>(23,566) | \$   | (19,183) | \$  | (5,171)  | \$ | (4,977)  | \$ | (4,977)  | \$ | (3,566)  | \$<br>(18,691) | \$<br>(18,996) |
| Other                                    |      | 14,945   | (4,002)        |      | (428)    |     | 36       |    | 36       |    | 36       |    | 36       | 144            | 144            |
| Impairment Charge                        |      | 49       | 0              |      | (1,741)  |     | 0        |    | 0        |    | 0        |    | 0        | 0              | 0              |
| Interest Income                          |      | 1,069    | 1,066          |      | 1,751    |     | 112      |    | 309      |    | 652      |    | 617      | 1,691          | 2,218          |
| Interest Expense                         |      | (11)     | (56)           |      | (72)     |     | (7)      |    | (7)      |    | (7)      |    | (7)      | (28)           | (28)           |
| Pretax Income                            |      | (7,967)  | (26,559)       |      | (19,673) |     | (5,030)  |    | (4,639)  |    | (4,296)  |    | (2,920)  | (16,884)       | (16,662)       |
| Income Tax Expense                       |      | 0        | 0              |      | 38       |     | 0        |    | 0        |    | 0        |    | 0        | 0              | 0              |
| Net to Common                            | \$   | (7,967)  | \$<br>(26,559) | \$   | (19,711) | \$  | (5,030)  | \$ | (4,639)  | \$ | (4,296)  | \$ | (2,920)  | \$<br>(16,884) | \$<br>(16,662) |
| Shares (000)                             |      | 124,299  | 125,883        |      | 138,813  |     | 144,258  |    | 157,421  |    | 162,694  |    | 163,194  | 156,892        | 164,007        |
| EPS                                      |      | (\$0.06) | (\$0.21)       |      | (\$0.14) |     | (\$0.03) |    | (\$0.03) |    | (\$0.03) |    | (\$0.02) | (\$0.11)       | (\$0.10)       |
|  |      |          |                |      |          |     |          |    |          |    |          |    |          |                |                |
| D&A                                      |      | 1,200    | 1,425          |      | 1,346    |     | 288      |    | 288      |    | 288      |    | 288      | 1,152          | 1,152          |
| Stock Comp                               |      | 3,187    | 3,540          |      | 1,654    |     | 507      |    | 507      |    | 507      |    | 507      | 2,028          | 2,129          |
| Other                                    |      | 0        | 1,142          |      | 176      |     | 0        |    | 0        |    | 0        |    | 0        | 0              | 0              |
| EBITDA                                   | \$   | (19,632) | \$<br>(17,459) | \$   | (16,007) | \$  | (4,376)  | \$ | (4,182)  | \$ | (4,182)  | \$ | (2,771)  | \$<br>(15,511) | \$<br>(15,715) |
|  |      |          |                |      |          |     |          |    |          |    |          |    |          |                |                |

Source: 22<sup>nd</sup> Century Group, Inc. and Dawson James Securities estimates



Exhibit 2. Balance Sheet and Cash Flow Statement (\$ in 000s)

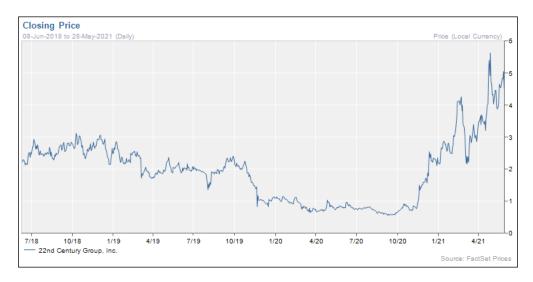
|                                       |    | ,         |                |      |          |    |          |    |            |
|---------------------------------------|----|-----------|----------------|------|----------|----|----------|----|------------|
|                                       |    | 2018      | 2019           |      | 2020     | 2  | 2021 E   | 1  | 2022 E     |
| Cash                                  |    | 605       | 485            |      | 1,029    |    | 1,272    |    | 1,272      |
| Short-Term Investments                |    | 55,749    | 38,477         |      | 21,313   |    | 58,252   |    | 44,671     |
| A/R                                   |    | 871       | 867            |      | 2,159    |    | 2,023    |    | 2,023      |
| Inventory                             |    | 3,044     | 2,266          |      | 2,034    |    | 2,137    |    | 2,137      |
| Prepaid Exp.                          |    | 928       | 648            |      | 1,806    |    | 1,280    |    | 1,280      |
| Total Current Assets                  | \$ | 61,198    | \$<br>42,743   | \$   | 28,341   | \$ | 64,964   | \$ | 51,383     |
| PP&E                                  |    | 3,261     | 3,120          |      | 2,483    |    | 2,148    |    | 1,696      |
| Operating Lease                       |    | 0         | 602            |      | 247      |    | 182      |    | 182        |
| Patent, Trademark, other intangibles  |    | 9,752     | 8,494          |      | 8,211    |    | 8,035    |    | 7,935      |
| Equity Investment                     |    | 3,092     | 8,403          |      | 6,536    |    | 6,643    |    | 6,643      |
| Convertible Note Receivable           |    | 0         | 5,589          |      | 5,876    |    | 5,876    |    | 5,876      |
| Total Assets                          | \$ | 77,302    | \$<br>68,951   | \$   | 51,694   | \$ | 87,848   | 9  | 73,715     |
| Bank Loans and N/P                    |    | 689       | 581            |      | 539      |    | 295      |    | 295        |
| Operating Lease                       |    | 0         | 220            |      | 247      |    | 182      |    | 182        |
| A/P                                   |    | 2,575     | 1,998          |      | 1,116    |    | 1,572    |    | 1,572      |
| Accrued Expenses                      |    | 1,826     | 2,619          |      | 4,830    |    | 4,681    |    | 4,681      |
| Accrued Severance                     |    | 0         | 359            |      | 339      |    | 274      |    | 274        |
| Deferred Income                       |    | 83        | 5              |      | 272      |    | 0        |    | 0          |
| Total Current Liabilities             | \$ | 5,174     | \$<br>5,780    | \$   | 7,343    | \$ | 7,004    | \$ | 7,004      |
| Long-Term Debt                        |    | 848       | 292            |      | 0        |    | 0        |    | 0          |
| Operating Lease                       |    | 0         | 382            |      | 0        |    | 0        |    | 0          |
| Accrued Severance                     |    | 0         | 446            |      | 241      |    | 187      |    | 187        |
| Shareholders' Equity                  |    | 71,280    | 62,051         |      | 44,110   |    | 80,657   |    | 66,524     |
| Total Liabilities And Equity          | \$ | 77,302    | \$<br>68,951   | \$   | 51,694   | \$ | 87,848   | 9  | 73,715     |
|                                       |    | 2018      | 2019           |      | 2020     | 2  | 2021 E   |    | 2022 E     |
| Net Income                            |    | (7,967)   | (26,559)       |      | (19,711) |    | (16,884) |    | (16,662)   |
| Depreciation & Amort.                 |    | 1,200     | 1,425          |      | 1,345    |    | 1,152    |    | 1,152      |
| Stock Comp                            |    | 3,187     | 3,540          |      | 1,654    |    | 2,028    |    | 2,129      |
| Other                                 |    | (14,618)  | 7,249          |      | 2,722    |    | (10)     |    | 0          |
| Working Capital                       | _  | 354       | (242)          | 0.00 | (1,631)  | -  | 334      |    | 0          |
| Operating Cash Flow                   | \$ | (17,844)  | \$<br>(14,587) | \$   | (15,621) | \$ | (13,380) | \$ | (13,381)   |
| Acquisition of Patents and trademarks |    | (657)     | (515)          |      | (468)    |    | (395)    |    | (500)      |
| CapEx                                 |    | (449)     | (527)          |      | (54)     |    | (175)    |    | (100)      |
| Other                                 |    | 16,251    | 5,595          |      | 16,991   |    | (8,415)  |    | 0          |
| Investing Activities                  | \$ | 15,145    | \$<br>4,552    | \$   | 16,469   | \$ | (8,985)  | \$ | (600)      |
| Debt                                  |    | (800)     | (700)          |      | (354)    |    | (246)    |    | 0          |
| Equity                                |    | 445       | 10,616         |      | 50       |    | 51,435   |    | 400        |
| Other                                 |    | 0         | 0              |      | 0        |    | 0        |    | 0          |
| Financing Activities                  | \$ | (355)     | \$<br>9,916    | \$   | (304)    | \$ | 51,189   | \$ | 400        |
| Change in Cash                        |    | (\$3,055) | (\$120)        |      | \$ 544   | \$ | 28,824   |    | (\$13,581) |

Source: 22<sup>nd</sup> Century Group, Inc. and Dawson James Securities estimates



#### **Important Disclosures:**

#### **Price Chart:**



Price target and ratings changes over the past three years:

Initiated – Buy – April 13, 2021 – Price Target \$7.00

Update – Buy – April 15, 2021 – Price Target \$7.00

Update – Buy – April 19, 2021 – Price Target \$7.00

Update – Buy – May 7, 2021 – Price Target \$7.00

Update – Buy – June 1, 2021 – Price Target \$7.00

Update – Buy – June 11, 2021 – Price Target \$7.00

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Information about valuation methods and risks can be found in the "Valuation" and "Risk Analysis" sections of this report.

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## **Ratings Definitions:**

- 1) **Buy**: The analyst believes the price of the stock will appreciate and produce a total return of at least 20% over the next 12-18 months.
- Neutral: The analyst believes the price of the stock is fairly valued for the next 12-18 months
- 3) **Sell**: The analyst believes the price of the stock will decline by at least 20% over the next 12-18 months and should be sold.

The following chart reflects the range of current research report ratings for all companies, followed by the analysts of the Firm. The chart also reflects the research report ratings relating to those companies for which the Firm has performed investment banking services.

As of: 17-May-21

|                            | Company Co     | overage    | Investment     | Banking     |
|----------------------------|----------------|------------|----------------|-------------|
| Ratings Distribution       | # of Companies | % of Total | # of Companies | % of Totals |
| Market Outperform (Buy)    | 24             | 71%        | 5              | 21%         |
| Market Perform (Neutral)   | 10             | 29%        | 0              | 0%          |
| Market Underperform (Sell) | 0              | 0%         | 0              | 0%          |
| Total                      | 34             | 100%       | 5              | 15%         |

### **Analyst Certification:**

The analyst(s) whose name appears on this research report certifies that 1) all of the views expressed in this report accurately reflect his (their) personal views about any and all of the subject securities or issuers discussed; and 2) no part of the research analyst's compensation was, is, or will be directly or indirectly related to the specific recommendations or views expressed by the research analyst in this research report; and 3) all Dawson James employees, including the analyst(s) responsible for preparing this research report, may be eligible to receive non-product or service-specific monetary bonus compensation that is based upon various factors, including total revenues of Dawson James and its affiliates as well as a portion of the proceeds from a broad pool of investment vehicles consisting of components of the compensation generated by investment banking activities, including but not limited to shares of stock and/or warrants, which may or may not include the securities referenced in this report.