

# Worldwide Forensic Services Inc.

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Forensic Examination Report



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**Dr. Atul K. Singla**  
M.Sc., Ph.D. (Forensic Sc.), FSSocDip., MFSSoc., CFE  
President

December 21, 2011

Mr. Ugo Matulic  
1907, 650-10<sup>th</sup> Street S.W.  
Calgary, Alberta T2P 5G4

**Forensic Report**  
**WWFS File No. 2099**  
**Re: Signatures of Norval Morrisseau on Paintings**

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Dear Mr. Matulic:

As requested, I have examined questioned signatures purportedly written by Norval Morrisseau on six paintings delivered by courier on November 21, 2011.

**Questioned Signatures:**

- Q1: Painting titled "GREAT JOURNEY" bearing signature "Norval Morrisseau", written with brush and paint on its reverse side.
- Q2: Painting titled "INORGANIC BEING WITH SHAMANS" bearing signature "Norval Morrisseau", written with brush and paint on its reverse side.
- Q3: Painting titled "THUNDERBIRD-2 OF 2" bearing signature "Norval Morrisseau", written with brush and paint on its reverse side.
- Q4: Painting titled "THUNDERBIRD-1 OF 2" bearing signature "Norval Morrisseau", written with brush and paint on its reverse side.
- Q5: Painting titled "THUNDERBIRD AND EVIL SERPENT" bearing signature "Norval Morrisseau", written with brush and paint on its reverse side.
- Q6: An untitled painting bearing signature "Norval Morrisseau", written with brush and paint on its reverse side.

I have also examined the known signatures described as written by Norval Morrisseau on the documents and painting prints as detailed below. These signatures were examined and scanned by me on March 30, 2010 at Maslak McLeod Gallery, Toronto in the presence of Mr. Joseph McLeod. The documents were returned to Mr. McLeod on completion of on-site examination.

**Known Signatures:**

- K1: A two-page Letter dated December 30, 1968 bearing a known signature on page # 2.
- K2: A Letter dated January 15, 1965 bearing a known signature.
- K3: Photocopy of a handwritten Note beginning with words "So I will close..." bearing a known signature.
- K4: An autographed book "The Art of Norval Morrisseau" bearing a known signature on the inner title.
- K5: A painting's print titled "Community Development" bearing a known signature written with pencil.
- K6: A painting's print titled "Great Circle" bearing a known signature written with pencil.
- K7: A painting's print titled "Vision to its Soul" bearing a known signature written with pencil.
- K8: A painting's print titled "Images of Nature" bearing a known signature written with pencil.
- K9: A painting's print titled "Ojibway Thunderbird" bearing a known signature written with pencil.

I have also examined other known signatures described as written by Norval Morrisseau on the reverse of two paintings titled "SACRED MEDICINE BEAR CHANGES" and "SOARING THUNDERBIRD", hand delivered by Mr. James White of White Distribution Ltd. Caledon on May 06, 2011. These paintings were examined and photographed, and the originals were returned to Mr. White on May 31, 2011.

- K10: Painting titled "SACRED MEDICINE BEAR CHANGES" bearing signature "Norval Morrisseau", written with brush and paint on its reverse side.
- K11: Painting titled "SOARING THUNDERBIRD" bearing signature "Norval Morrisseau", written with brush and paint on its reverse side.



I have also examined other known signatures described as written by Norval Morrisseau on six original certificates of authenticity as detailed below:

K12: An original Certificate of Authenticity dated April 11, 2002 for an artwork "GREAT JOURNEY, 1978".

K13: An original Certificate of Authenticity dated April 11, 2002 for an artwork "THUNDERBIRD-1 OF 2, 1977".

K14: An original Certificate of Authenticity dated April 11, 2002 for an untitled, 1980 artwork".

K15: An original Certificate of Authenticity dated April 11, 2002 for an artwork "THUNDERBIRD-2 OF 2, 1977".

K16: An original Certificate of Authenticity dated April 11, 2002 for an artwork "THUNDERBIRD AND EVIL SERPENT, 1976".

K17: An original Certificate of Authenticity dated April 11, 2002 for an artwork "INORGANIC BEING WITH SHAMANS, 1976".

I have also examined another known signature described as written by Norval Morrisseau on the color copy of certificates of authenticity, received via courier on December 09, 2011 from Mr. James White of White Distribution Ltd. Caledon, as detailed below:

K18: Color photocopy of a Certificate of Authenticity dated April 12, 2002 for an artwork "YOUR IN THE FOURTH DIMENSION".

The copies of these documents/signatures are attached with this report for ready reference.

**Purpose of the Examination:**

The signatures described above were examined in an effort to determine, if possible:

1. Whether the questioned signatures Q1 to Q6 were written by the writer of known signatures K1 to K18?

**Background Information Provided:**

Mr. Norval Morrisseau suffered from Parkinson's disease in the later years of his life.

**Examinations Conducted:**

1. Visual and macroscopic analysis of the questioned and known signatures.
2. Comparison of the questioned signatures Q1-Q6 with the known signatures K1-K18.

**Observations and Findings:**

The questioned signatures Q1-Q6 are written with brush and paint on canvas. The signatures Q3 and Q6 show some lighter strokes and lesser clarity in their execution. This factor has been given due consideration.

Giving due consideration to the possible natural variations in brush and paint writings as compared to the writings written with pen, ballpoint pen or pencil on paper surface; the questioned signatures have been found to be written freely and fluently. These signatures do not show hesitations, slow drawn strokes, unusual shadings or lack of natural writing flow.

The known signatures show a wide range of natural variations in their inter-se comparison. The signatures K6 and K8 are written as "Norval M", the signature K2 and K3 are written as "Norval Morriveau" (with single "s" in word "Morriveau") and the signatures K1, K5, K7 and K9 are written as "Norval Morriveau" (with two "s" in word "Morriveau"). The signatures K4 and K9 show more abbreviation of the terminal portions as compared to the other known signatures. The signatures K12-K18 show decline in the muscular co-ordination, resulting in slow writing speed, presence of tremor, change in the alignment (more pronounced in K16 and K17) and difficulty in execution of strokes. The known signatures K10 and K11 are written with brush and paint on canvas like the questioned signatures.

The questioned signatures were examined minutely and compared against the known signatures. This process involved a comparison of the writing features including letter proportions; abbreviations; connections, direction of strokes; freedom of execution; line quality; method of production of letters; overall pressure and pattern of pressure emphasis; size; skill; slant; spacing; speed and range of variation-see illustrative charts 1-14.

It was determined as to whether the writing characteristics present in the questioned signatures are in the parameters of natural variations present within the known signatures. The comparison showed significant similarities in the writing characteristics and some variations which are detailed and marked on illustrative charts.

In addition to the similarities detailed on the illustrative charts, the questioned and known signatures also have similarities in the writing features detailed below:



1. The questioned signatures and the known signatures K1-K11 reveal similar order of writing skill and muscular co-ordination. As mentioned earlier, the known signatures K12- K18 show decline in the muscular co-ordination.
2. The questioned signatures and the known signatures K1-K11 reveal moderate writing speed and gradation in the writing pressure. The known signatures K13-K18 reveal comparatively slower speed.
3. The relative position of words "Norval" and "Morriseau" in the questioned signatures is similar to the relative position of these words in the known signatures K1, K10, K11 and K12.
4. The apex of the right shoulder of letter "M" is placed at a higher level than the apex of its left shoulder in the questioned signatures and in the known signatures K1-K17.
5. The letters in these signatures have similar combinations i.e. letters "N", "o", "R" and "v" in word "Norval" are written separately, whereas the letters "a" and "l" in this word are connected with each other. Similarly, the letters "M", "o", "R", "i" and first "s" in the second word in the questioned signatures and the known signatures K1-K11 are written separately, whereas the remaining letters in this word are connected with each other.

Please refer to the attached illustrative charts for these observations.

### **Conclusions:**

Examination and comparison of the questioned and known signatures as described in detail in the report and on the illustrative charts lead to the following conclusions:

1. It is highly probable that the questioned signatures Q1, Q2, Q4 and Q5 were written by the writer of known signatures K1 to K18.
2. It is probable that the questioned signatures Q3 and Q6 were written by the writer of known signatures K1 to K18.

### **Disposition of the Paintings:**

The original paintings and documents submitted for the examination are being returned along with this report.

### **Attachments to Report:**

1. Fourteen illustrative charts


2. Curriculum Vitae
3. An opinion scale
4. Copies of the documents/signatures

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Atul K. Singla', with a long horizontal stroke extending from the bottom of the signature.

Atul K. Singla M.Sc., Ph.D. (Forensic Science)  
Forensic Document Examiner

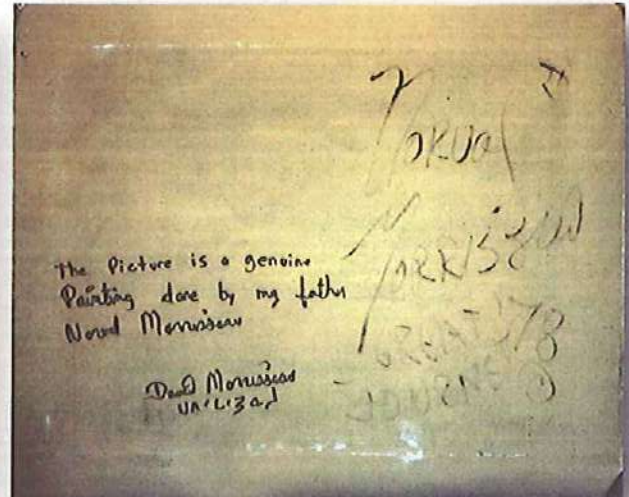
## OPINION SCALE

<p style="text-align: center;"> <b>Strongest</b>    <b>LEVEL OF CERTAINTY</b>  <b>Weakest</b> </p>	a)	<p>There is <u>conclusive evidence</u> that the author of the specimen material wrote/did not write the questioned material.</p> <p>The possibility that an alternative hypothesis is true can, in practice, be excluded.</p>
	b)	<p>It is highly probable that the author of the specimen material <u>wrote/did not write</u> the questioned material.</p> <p>The possibility that an alternative hypothesis is true is considered to be very unlikely.</p>
	c)	<p>It is probable that the author of the specimen material <u>wrote/did not write</u> the questioned material.</p> <p>The possibility that an alternative hypothesis is true is considered to be unlikely.</p>
	d)	<p>There are indications that the author of specimen material <u>wrote/did not write</u> the questioned material.</p> <p>There is more support for the advanced hypothesis than the alternative hypothesis.</p>
	e)	<p><u>Unable to determine</u> whether or not the writer of the specimen material wrote the questioned material.</p> <p>It is not possible to determine whether the advanced hypothesis or an alternative hypothesis is true.</p>

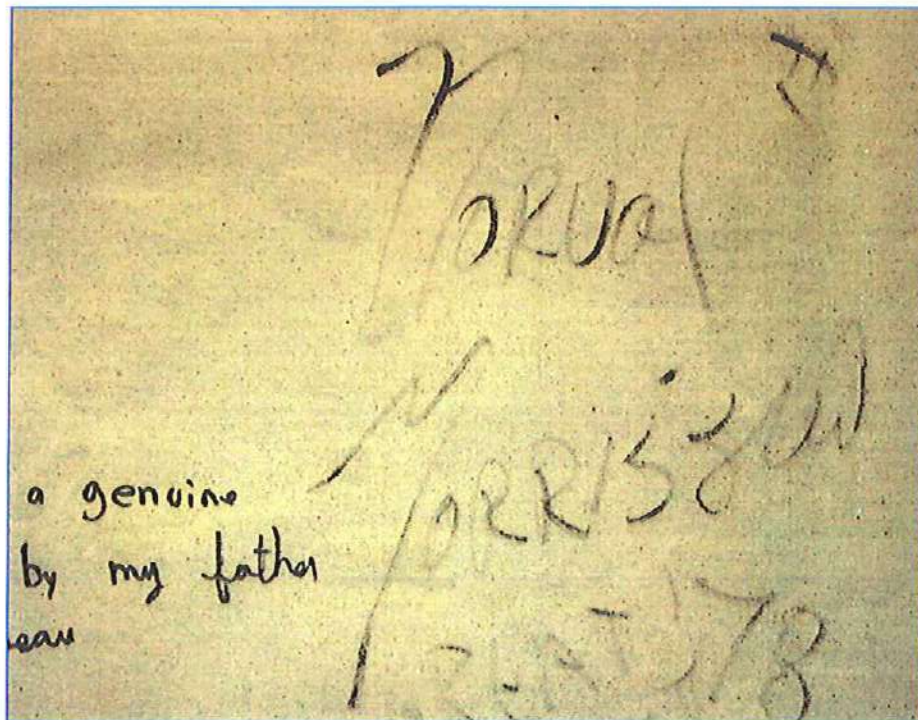


## Illustrative Charts

ILLUSTRATIVE CHART # 1  
(WWFS 2099)



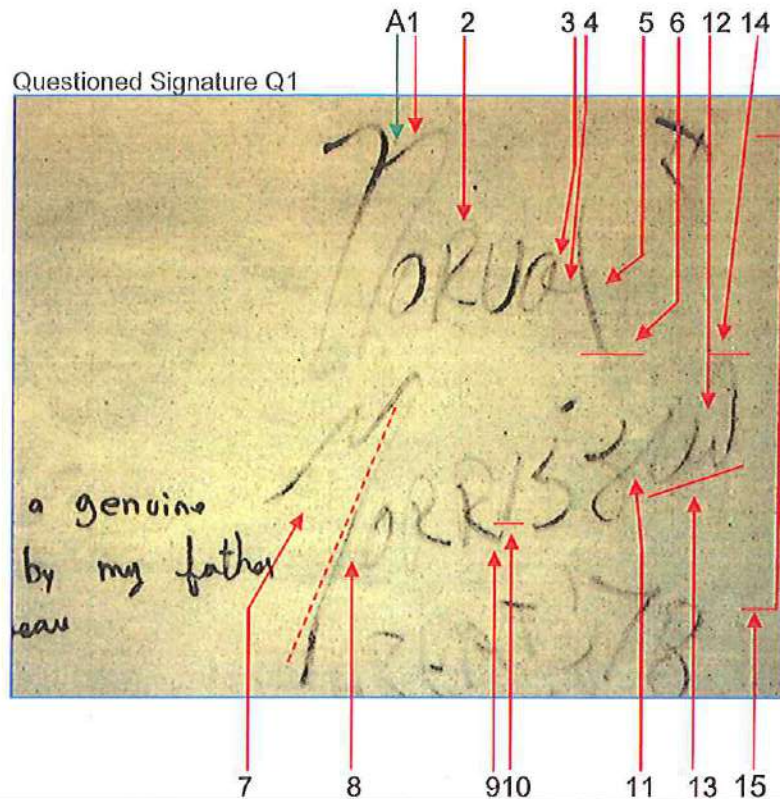
GREAT JOURNEY



Signature-Q1

## ILLUSTRATIVE CHART # 2

(WWFS 2099)

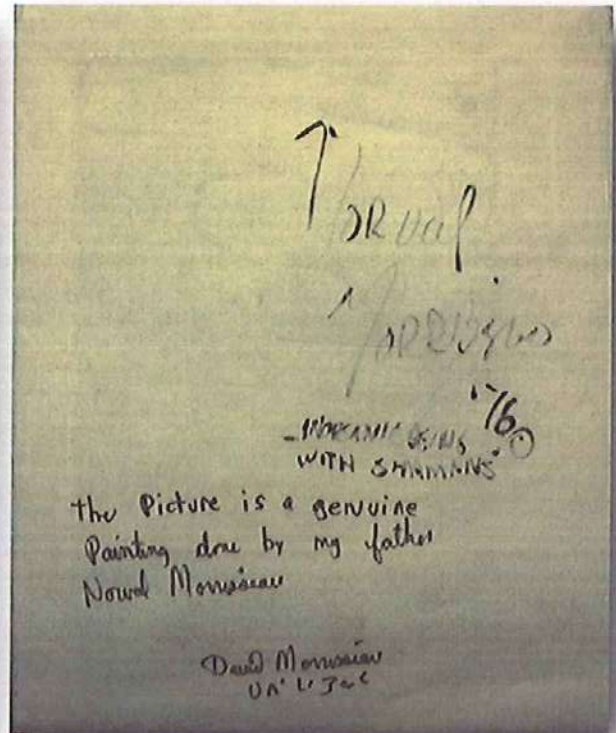
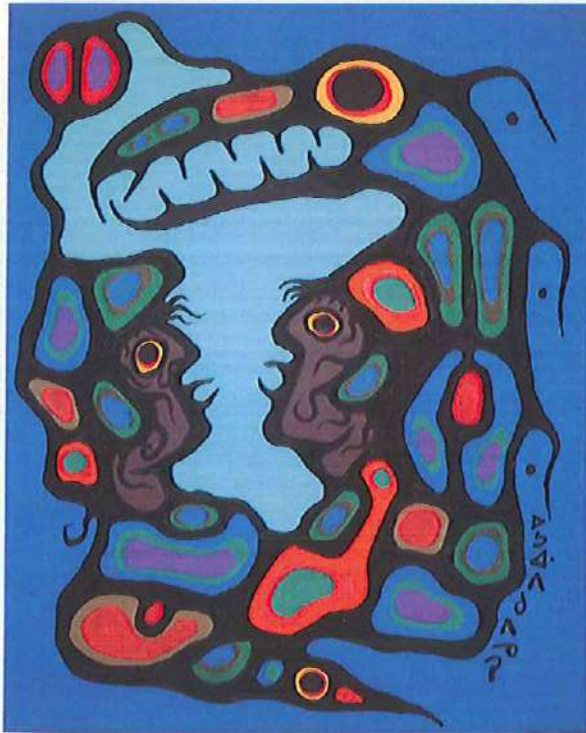


Significant similarities are shown in red. Variations are shown in green.

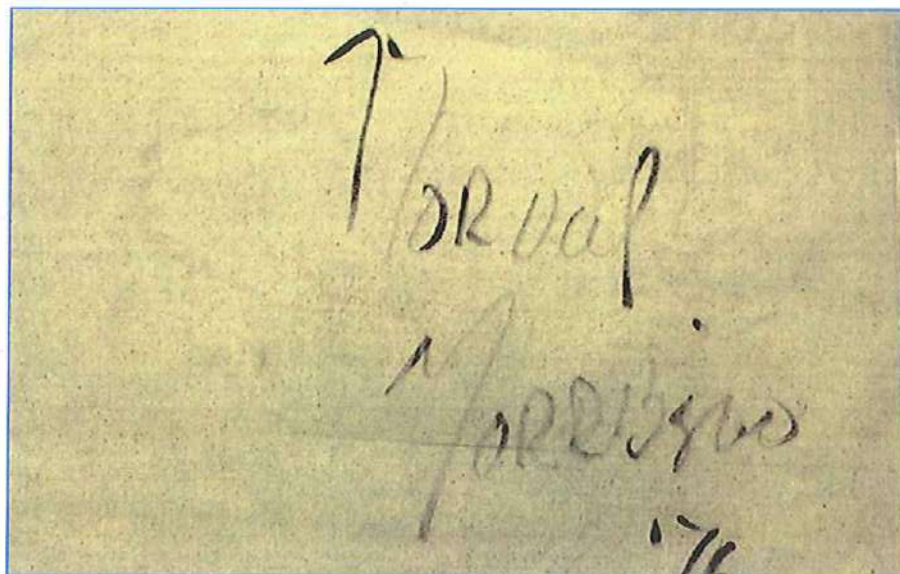
1. The use of lower case "n" like the known signatures K2-K18.
  2. Uppercase formation of letter "R".
  3. Letter "a" is written with an open body (incomplete oval) like most of the known signatures.
  4. Letter "a" is continued to form letter "l".
  5. Letter "l" is written with similar curved body. This letter in some of the known signatures such as K3, K15 and K17 has an angular turn at the base.
  6. Terminal of letter "l" goes below the baseline of preceding letter "a" like most of the known signatures.
  7. Formation of letter "M" is similar to the known signatures such as K1, K2, K3, K10 and K11.
  8. Letter "M" is more slanted than letter "n" like the known signatures such as K1, K5, K6, K9, K10 and K11.
  9. Similar curved terminal.
  10. Higher placing position of letter "i" than the baseline of letter "R". Similar position in the known signatures such as K1, K2, K5, K7, K10 and K11.
  11. Letter "s" continues to form letter "e" like the known signatures such as K1, K3, K5, K7, K9, K10 and K11.
  12. Open body of letter "a" like the known signatures K1, K2, K3, K10 and K11.
  13. Letters written in continuity and showing abbreviations.
  14. The right shoulder of letter "u" is placed higher than the left shoulder like the known signatures K1, K2, K3, K10 and K11.
  15. This signature shows natural writing flow. There are no hesitations in the act of writing.
- A. Brush is lifted at this place. This stroke shows continuity in the known signatures K1- K9 and K12 -K18.



ILLUSTRATIVE CHART # 3  
(WWFS 2099)



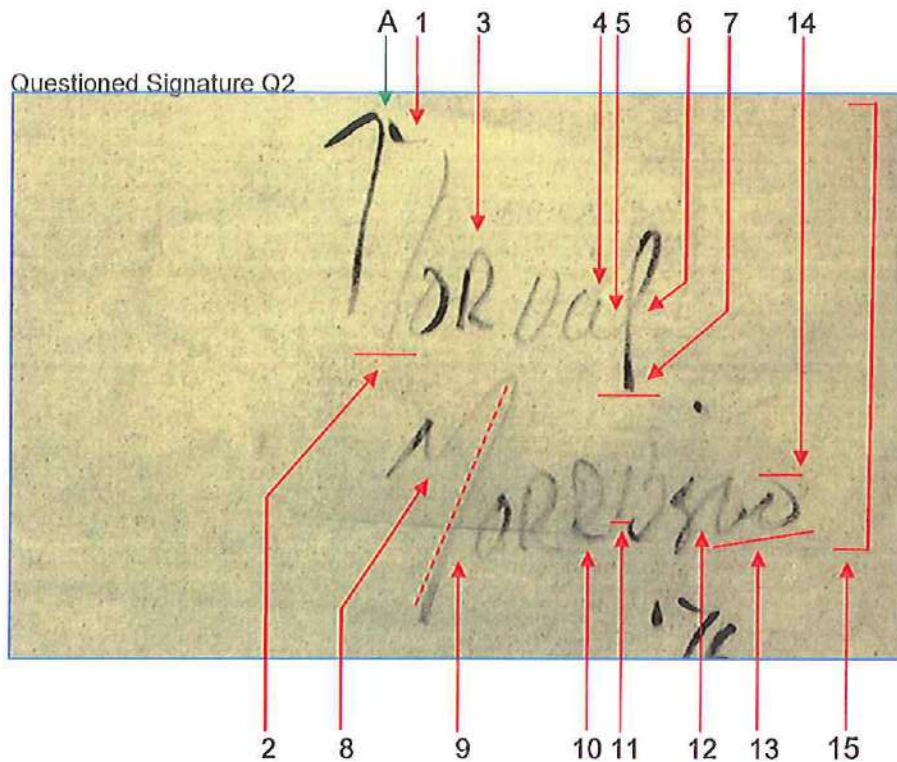
INORGANIC BEING WITH SHAMANS



Signature-Q2

# ILLUSTRATIVE CHART # 4

(WWFS 2099)

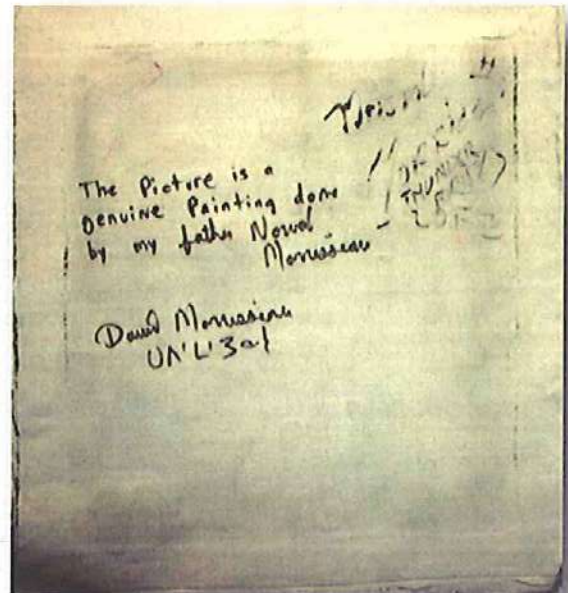
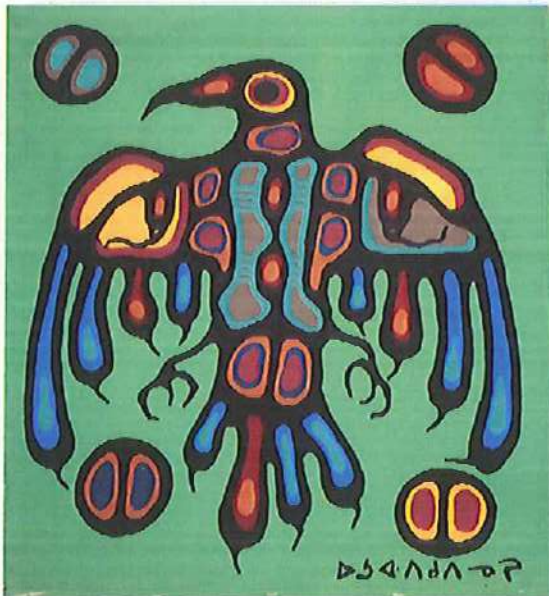


Significant similarities are shown in red. Variations are shown in green.

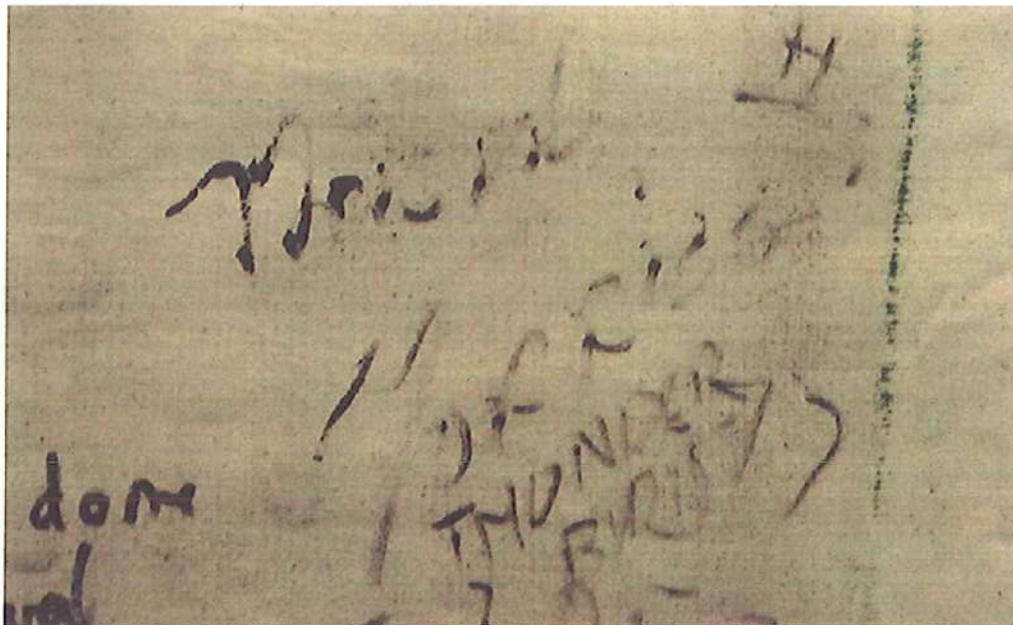
1. The use of lower case "n" like the known signatures K2-K18.
  2. The terminal of "n" extends beyond the baseline of its left arm.
  3. Uppercase formation of letter "R".
  4. Letter "a" is written with an open body (incomplete oval) like most of the known signatures.
  5. Letter "a" is continued to form letter "l".
  6. Letter "l" is written with similar curved body. This letter in some of the known signatures such as K3, K15 and K17 has an angular turn at the base.
  7. Terminal of letter "l" goes below the baseline of preceding letter "a" like most of the known signatures.
  8. Formation of letter "M" is similar to the known signatures such as K1, K2, K3, K10 and K11.
  9. Letter "M" is more slanted than letter "n" like the known signatures such as K1, K5, K6, K9, K10 and K11.
  10. Similar curved terminal.
  11. Higher placing position of letter "i" than the baseline of letter "R". Similar position in the known signatures such as K1, K2, K5, K7, K10 and K11.
  12. Letter "s" continues to form letter "e" like the known signatures such as K1, K3, K5, K7, K9, K10 and K11.
  13. Letters written in continuity and showing abbreviations.
  14. The right shoulder of letter "u" is placed higher than the left shoulder like the known signatures K1, K2, K3, K10 and K11.
  15. This signature shows natural writing flow. There are no hesitations in the act of writing.
- A. Brush is lifted at this place. This stroke shows continuity in the known signatures K1- K9 and K12 -K18.



ILLUSTRATIVE CHART # 5  
(WWFS 2099)



THUNDERBIRD-2 OF 2

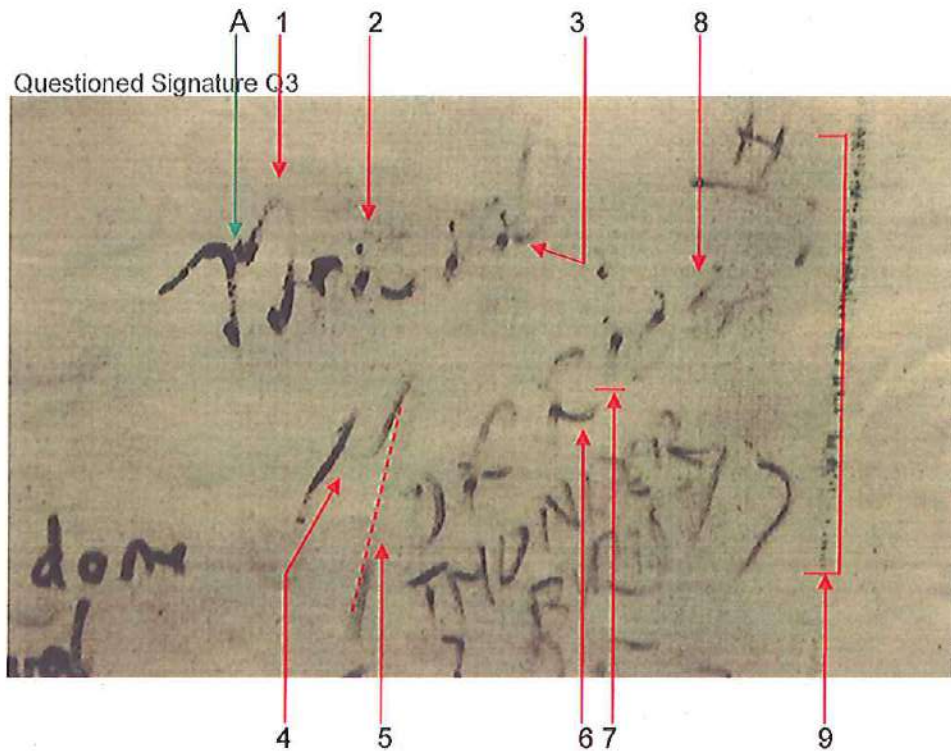


Signature-Q3



# ILLUSTRATIVE CHART # 6

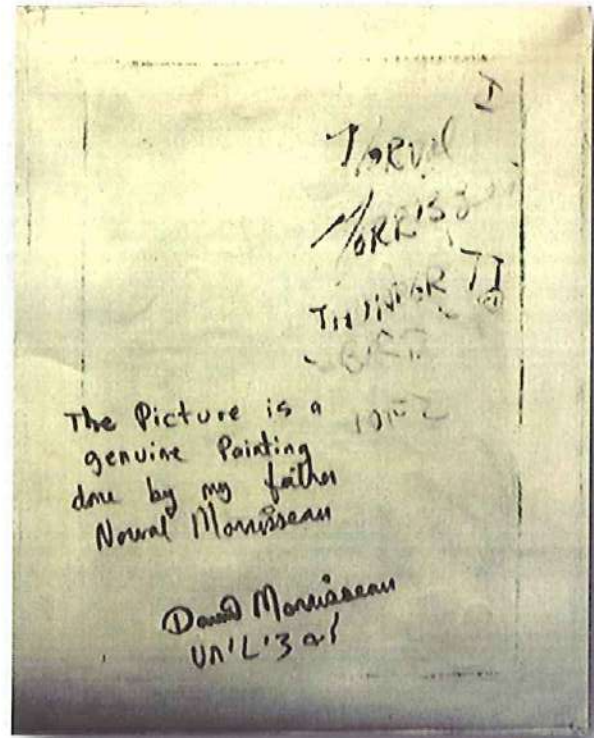
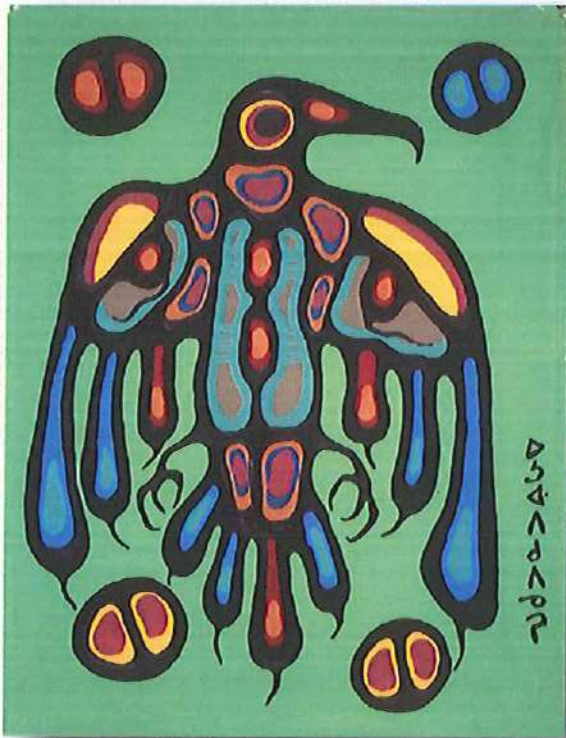
(WWFS 2099)



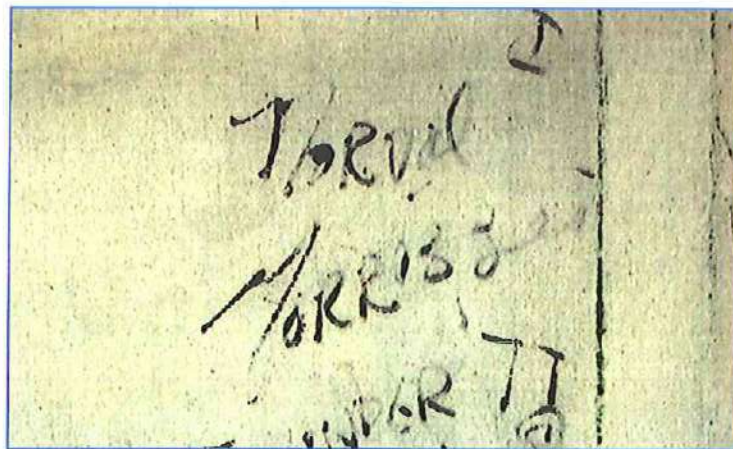
Significant similarities are shown in red. Variations are shown in green.

1. The use of lower case "n" like the known signatures K2-K18.
  2. Uppercase formation of letter "R".
  3. Angular turn at the base of letter "l" like the known signatures K3, K15 and K17.
  4. Formation of letter "M" is similar to the known signatures such as K1, K2, K3, K10 and K11.
  5. Letter "M" is more slanted than letter "n" like the known signatures such as K1, K5, K6, K9, K10 and K11.
  6. Similar curved terminal.
  7. Higher placing position of letter "i" than the baseline of letter "R". Similar position in the known signatures such as K1, K2, K5, K7, K10 and K11.
  8. Similar formation of letter "s" with an obliquely placed starting stroke, like the same in K10, K11 and K14.
  9. This signature shows natural writing flow. There are no hesitations in the act of writing.
- A. Brush is lifted at this place. This stroke shows continuity in the known signatures K1- K9 and K12 – K18.

ILLUSTRATIVE CHART # 7  
(WWFS 2099)



THUNDERBIRD-1 OF 2

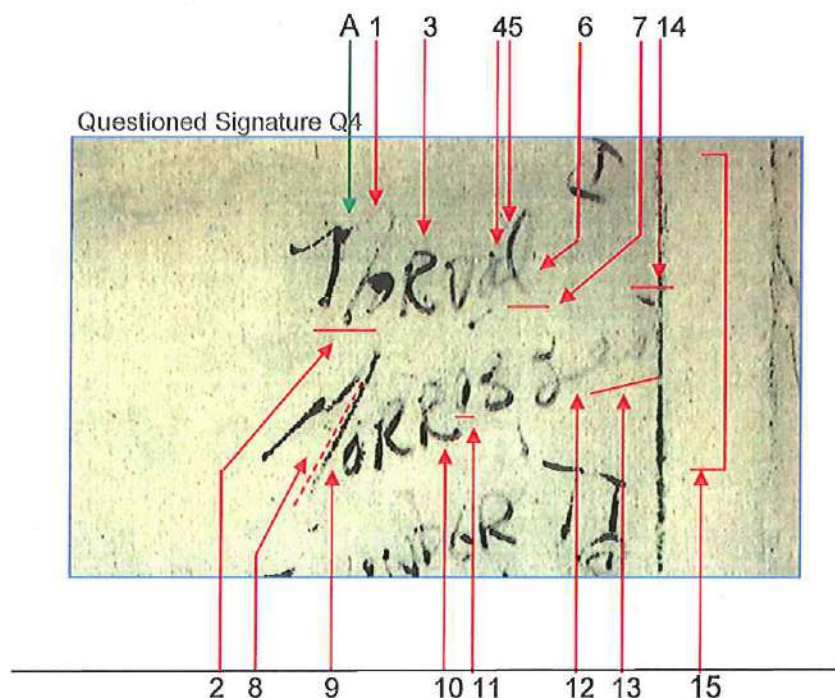


Signature-Q4



## ILLUSTRATIVE CHART # 8

(WWFS 2099)

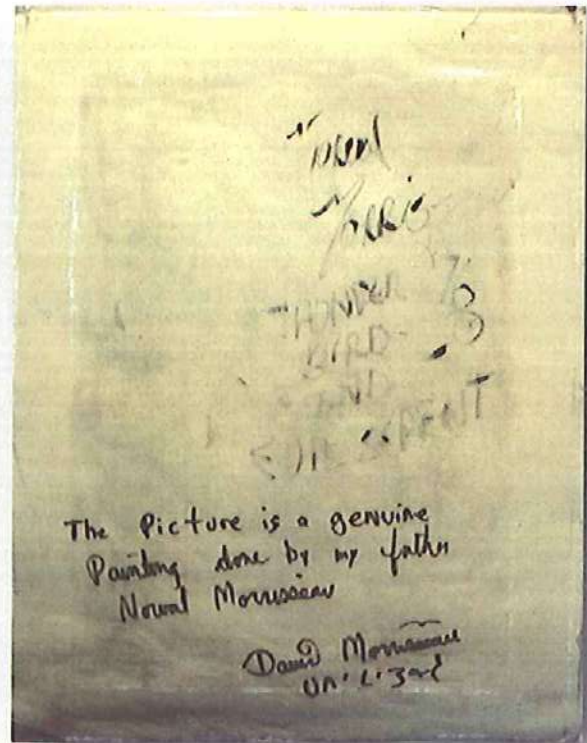
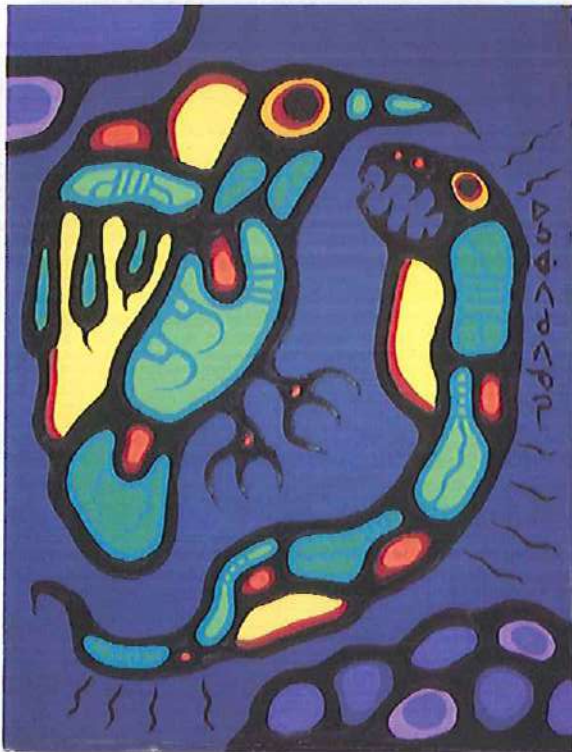


Significant similarities are shown in red. Variations are shown in green.

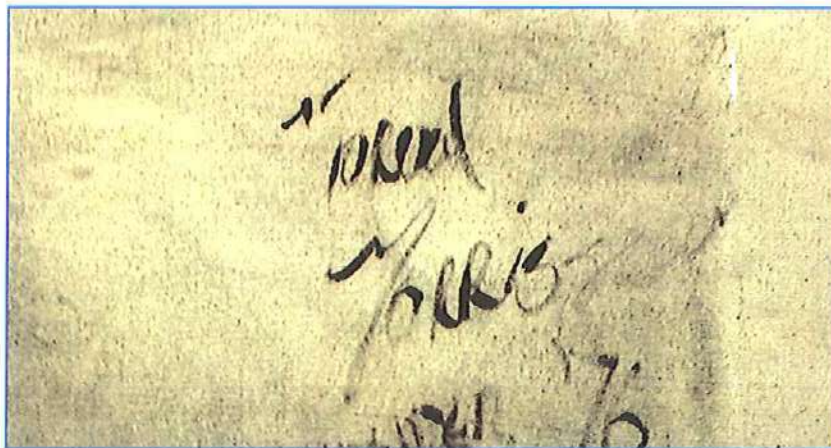
1. The use of lower case "n" like the known signatures K2-K18.
  2. The terminal of "n" extends beyond the baseline of its left arm.
  3. Uppercase formation of letter "R".
  4. Letter "a" is written with an open body (incomplete oval) like most of the known signatures.
  5. Letter "a" is continued to form letter "l".
  6. Letter "l" is written with similar curved body. This letter in some of the known signatures such as K3, K15 and K17 has an angular turn at the base.
  7. Terminal of letter "l" goes below the baseline of preceding letter "a" like most of the known signatures.
  8. Formation of letter "M" is similar to the known signatures such as K1, K2, K3, K10 and K11.
  9. Letter "M" is more slanted than letter "n" like the known signatures such as K1, K5, K6, K9, K10 and K11.
  10. Similar curved terminal.
  11. Higher placing position of letter "i" than the baseline of letter "R". Similar position in the known signatures such as K1, K2, K5, K7, K10 and K11.
  12. Letter "s" continues to form letter "e" like the known signatures such as K1, K3, K5, K7, K9, K10 and K11.
  13. Letters written in continuity and showing abbreviations.
  14. The right shoulder of letter "u" is placed higher than the left shoulder like the known signatures K1, K2, K3, K10 and K11.
  15. This signature shows natural writing flow. There are no hesitations in the act of writing.
- A. Brush is lifted at this place. This stroke shows continuity in the known signatures K1- K9 and K12 -K18.



ILLUSTRATIVE CHART # 9  
(WWFS 2099)



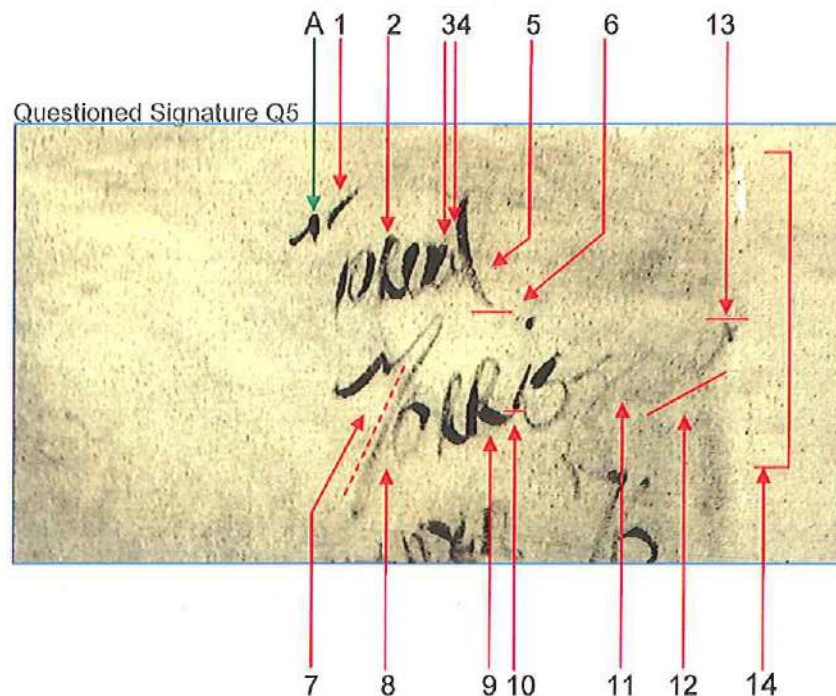
THUNDERBIRD AND EVIL SERPENT



Signature-Q5

# ILLUSTRATIVE CHART # 10

(WWFS 2099)

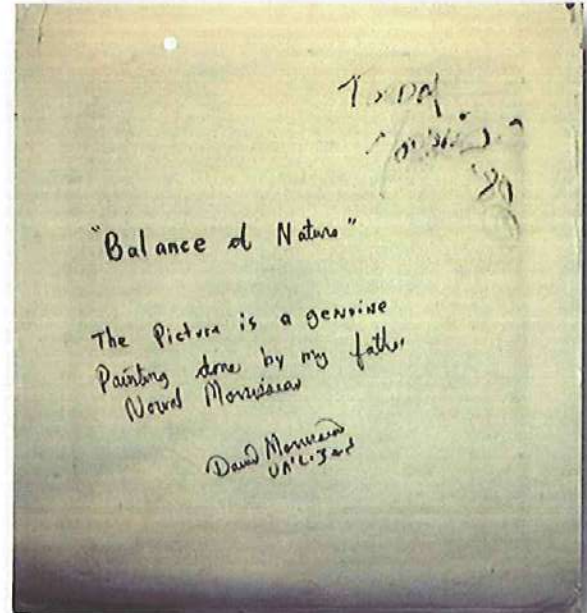


Significant similarities are shown in red. Variations are shown in green.

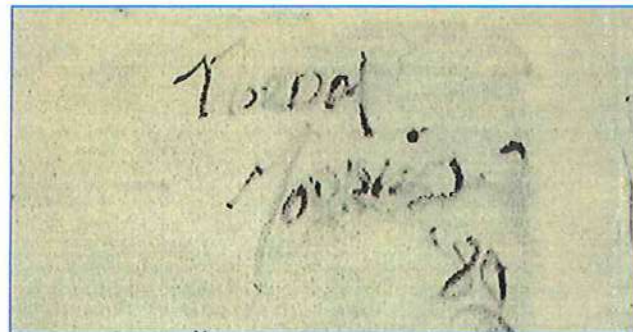
1. The use of lower case "n" like the known signatures K2-K18.
2. Uppercase formation of letter "R".
3. Letter "a" is written with an open body (incomplete oval) like most of the known signatures.
4. Letter "a" is continued to form letter "l".
5. Letter "l" is written with similar curved body. This letter in some of the known signatures such as K3, K15 and K17 has an angular turn at the base.
6. Terminal of letter "l" goes below the baseline of preceding letter "a" like most of the known signatures.
7. Formation of letter "M" is similar to the known signatures such as K1, K2, K3, K10 and K11.
8. Letter "M" is more slanted than letter "n" like the known signatures such as K1, K5, K6, K9, K10 and K11.
9. Similar curved terminal.
10. Higher placing position of letter "i" than the baseline of letter "R". Similar position in the known signatures such as K1, K2, K5, K7, K10 and K11.
11. Letter "s" continues to form letter "e" like the known signatures such as K1, K3, K5, K7, K9, K10 and K11.
12. Letters written in continuity and showing abbreviations.
13. The right shoulder of letter "u" is placed higher than the left shoulder like the known signatures K1, K2, K3, K10 and K11.
14. This signature shows natural writing flow. There are no hesitations in the act of writing.
- A. Brush is lifted at this place. This stroke shows continuity in the known signatures K1- K9 and K12 -K18.



ILLUSTRATIVE CHART # 11  
(WWFS 2099)



UNTITLED

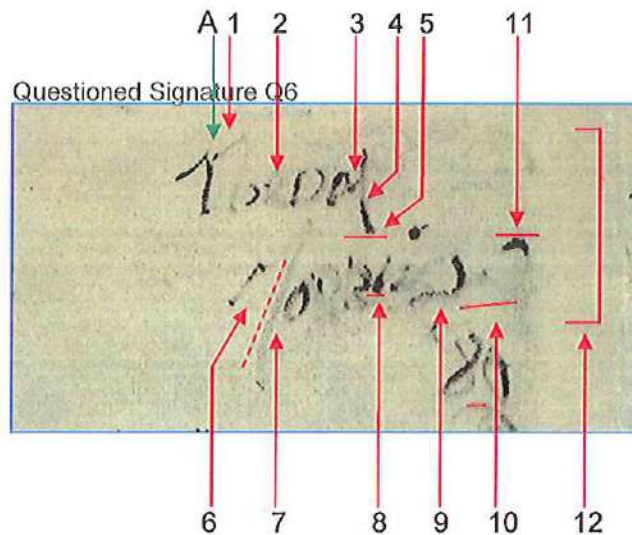


Signature-Q6



## ILLUSTRATIVE CHART # 12

(WWFS 2099)



Significant similarities are shown in red. Variations are shown in green.

1. The use of lower case "n" like the known signatures K2-K18.
  2. Uppercase formation of letter "R".
  3. Letter "a" is continued to form letter "l".
  4. Letter "l" is written with similar curved body. This letter in some of the known signatures such as K3, K15 and K17 has an angular turn at the base.
  5. Terminal of letter "l" goes below the baseline of preceding letter "a" like most of the known signatures.
  6. Formation of letter "M" is similar to the known signatures such as K1, K2, K3, K10 and K11.
  7. Letter "M" is more slanted than letter "n" like the known signatures such as K1, K5, K6, K9, K10 and K11.
  8. Higher placing position of letter "i" than the baseline of letter "R". Similar position in the known signatures such as K1, K2, K5, K7, K10 and K11.
  9. Letter "s" continues to form letter "e" like the known signatures such as K1, K3, K5, K7, K9, K10 and K11.
  10. Letters written in continuity and showing abbreviations.
  11. The right shoulder of letter "u" is placed higher than the left shoulder like the known signatures K1, K2, K3, K10 and K11.
  12. This signature shows natural writing flow. There are no hesitations in the act of writing.
- A. Brush is lifted at this place. This stroke shows continuity in the known signatures K1- K9 and K12 -K18.

# ILLUSTRATIVE CHART # 13

(WWFS 2099)

## Known Signatures

K1 on a Letter dated December 30, 1968

K6 on a Painting's Print "Great Circle"

K2 on a Letter dated January 15, 1965

K7 on a Painting's Print "Vision to its Soul"

K3 on the photocopy of an undated handwritten Note

K8 on a Painting's Print "Images of Nature"

K4 in an autographed book "The Art of Norval Morrisseau"

K9 on a Painting's Print "Ojibway Thunderbird"

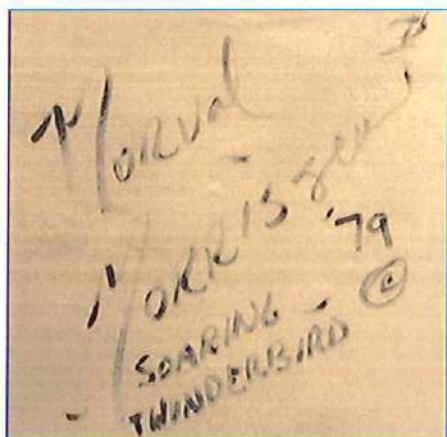
K5 on a Painting's Print "Community Development"

K10 on the reverse of a Painting "Sacred Medicine Bear Changes"

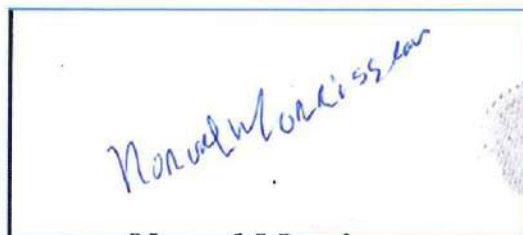
# ILLUSTRATIVE CHART # 14

(WWFS 2099)

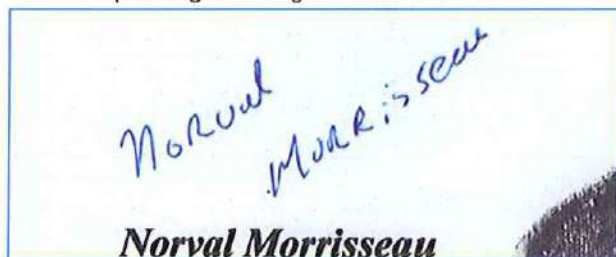
## Known Signatures



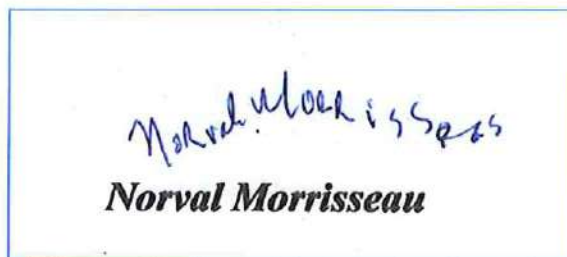
K11 on the reverse of a painting "Soaring Thunderbird"



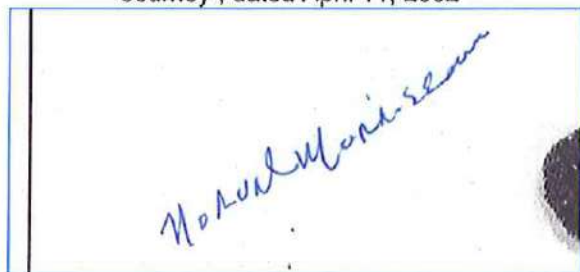
K15 on a Certificate of Authenticity of Artwork "Thunderbird-2 of 2", dated April 11, 2002



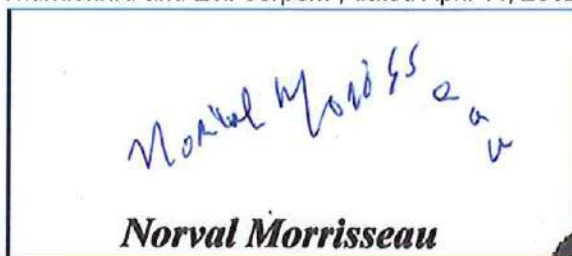
K12 on a Certificate of Authenticity of Artwork "Great Journey", dated April 11, 2002



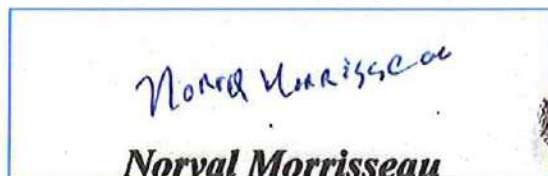
K16 on a Certificate of Authenticity of Artwork "Thunderbird and Evil Serpent", dated April 11, 2002



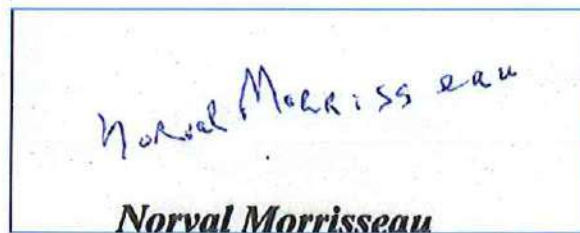
K13 on a Certificate of Authenticity of Artwork "Thunderbird-1 of 2", dated April 11, 2002



K17 on a Certificate of Authenticity of Artwork "Inorganic Being with Shamans", dated April 11, 2002

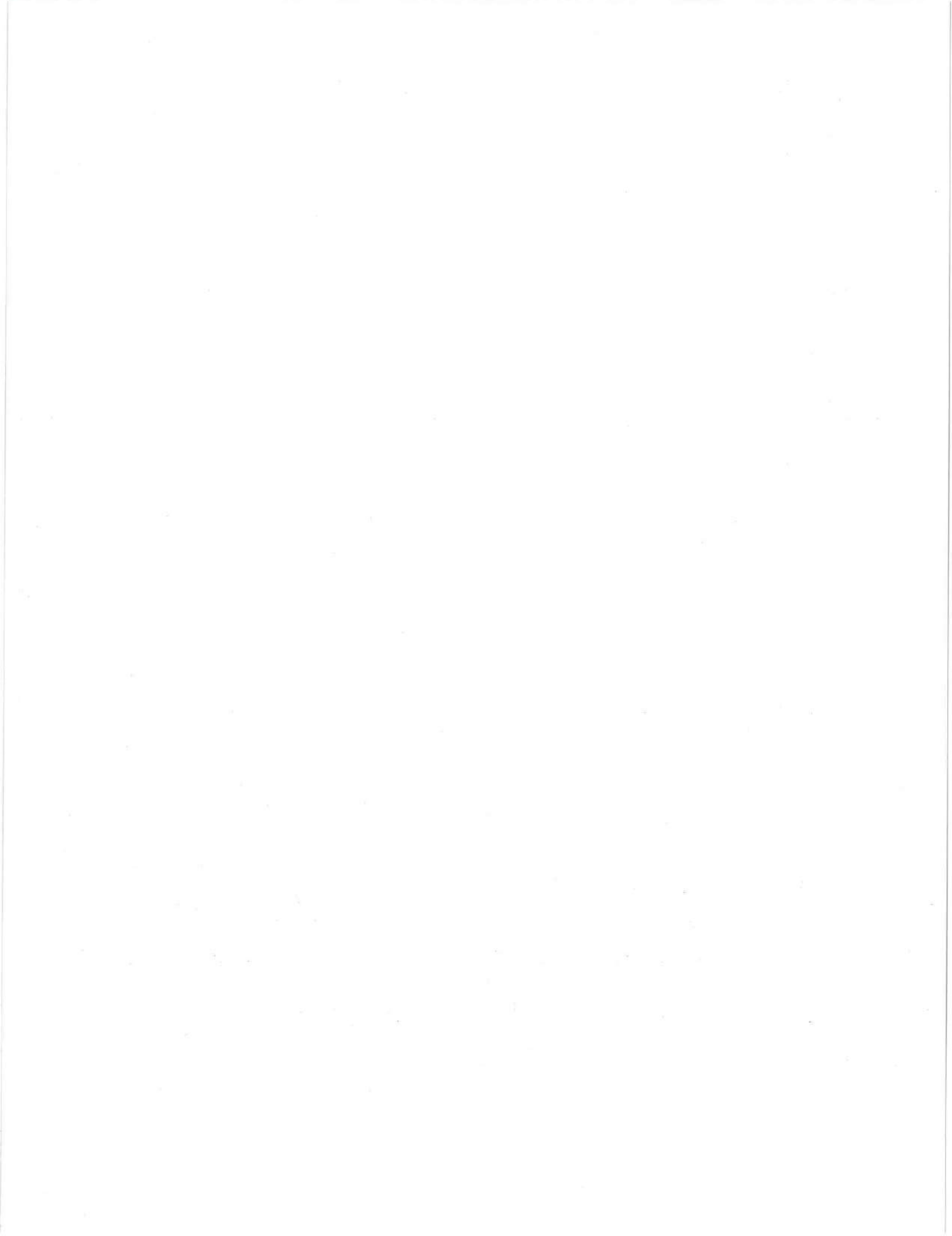


K14 on a Certificate of Authenticity of Artwork "Untitled", dated April 11, 2002



K18 on a Certificate of Authenticity of Artwork "Your in the Fourth Dimension", dated April 12, 2002





# Curriculum Vitae of Dr. Atul K. Singla

## **Dr. Atul K. Singla**

**Forensic Document Examiner  
Worldwide Forensic Services Inc.  
55 Town Centre Court, Suite 642  
Toronto, ON M1P 4X4**

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### *Curriculum Vitae*

#### **Formal Education and Designation**

##### **Master's Degree in Forensic Science**

Department of Forensic Science, Punjabi University Patiala, India

A two years full time degree course completed in the year 1981. This course included subjects integrating theoretical and practical knowledge in the study of Questioned Document Examination; Physical Analysis and Instrumentation; Forensic Chemistry and Physical Anthropology including Fingerprints.

##### **Ph.D. Degree in Forensic Science**

(Research Topic: Effect of Heredity and Environment on Handwriting)

Department of Forensic Science, Punjabi University Patiala, India

Joined in the year 1985 and completed in the year 1992.

Canadian Equivalency: Ph.D. (Forensic Science) Evaluated by the World Education Services, Toronto ON. The World Education Services is an authorized provincial evaluation service operating with the support of the provincial government.

**Diploma in Document Examination (FSSocDip)** awarded by The Forensic Science Society of U.K. The award of the diploma in document examination was based upon my education, training, experience, and the successful completion of formal examination process. The examination process consisted of a comprehensive written examination and a practical examination. All phases of the examination process are based upon the broad range of problems frequently encountered in forensic document examination to include handwriting and hand printing examination/comparison.

**Certified Fraud Examiner** designation awarded by the Association of Certified Fraud Examiners USA, after successful completion of a formal examination process on the subjects: Legal Elements of Fraud; Fraud Investigation; Financial Transactions, and Criminology and Ethics.

#### **Professional Expertise**

Forensic Examination of Documents. Examination and Comparison of Handwriting, Signatures Initials and Hand-printing.

Decipherment of Altered, Erased, Faded, Indented and Obliterated Matter. Determining Chronological Sequence of Writings/Impressions.

Ink and Paper Examination.



Examination of Photocopies, Computer Printouts, Typed Matter and Other Machine Generated Documents.

Examination of Rubber Stamp Impressions, Paintings and Embossed Seals.

Examination and Comparison of Fingerprints.

### **Forensic Training**

Completed two years full time training program in Questioned Documents and Fingerprints Examination at Forensic Science Services, Lucknow, India (From 1981 to 1983).

Trained by Mr. Siaram Gupta I.P.S. (Retd.) B.Sc., F. A. F. Sc., Former Director-in-Charge State Forensic Science Laboratory, U.P. Government, India. U.P. Government's founder Handwriting Expert since 1950 and senior most Fingerprints Expert since 1947. Former lecturer in Forensic Science, National Police Academy, Mount Abu; Institute of Criminology and Forensic Science, Ministry of Home Affairs, New Delhi India, and University of Lucknow, India.

The training program in document examination included theoretical and practical knowledge in the study of principles of handwriting comparison. Examination of traced and simulated forgeries disguised writings/signatures. Examination and decipherment of indented impressions, alterations and obliterations. Examination and comparison of machine generated documents. Ink and paper analysis. Preparation of demonstrative charts, report writing and presentation of expert evidence.

### **Professional Membership**

1. Member: Canadian Society of Forensic Sciences (Document Section) September 2006-present. (Provisional Member from October 2005 to September 2006)
2. Associate Member: American Academy of Forensic Sciences (Questioned Document Section) March 2006-present.
3. Member: The Forensic Science Society U.K. (May 2003- present)
4. Associate Member: International Association for Identification U.S. (October 2002-present)
5. Member: Association of Certified Fraud Examiners U.S. (August 2005-present)
6. Member: Society for Imaging Science and Technology U.S. (December 2007-present)
7. Participating Member: American Society for Testing and Materials International (ASTM) U.S. (November 2008 –present)
8. Fellow: The Fingerprint Society U.K. (February 2009-present)
9. Associate Member: Canadian Identification Society (2009-present)
10. Life Member: Indian Academy of Forensic Science (1981-present)
11. Life Member: The Forensic Science Society of India (1986-present)

### **Publications and Presentations**

- **The Effect of Water Soaking on Ballpoint Pen Writings**  
Journal of American Society of Questioned Document Examiners, 2007. Vol. 10, No. 2
- **Establishing the Sequence of Intersecting Ballpoint Pen and Felt-tipped Marker Strokes**  
Journal of Forensic Identification, 2006. Vol.56, No.3.

- **Examination of Gel Pen Inks Using Physical and Thin Layer Chromatographic Examination**  
Journal of American Society of Questioned Document Examiners, 2005. Vol.8, No.2.
- **Thin-layer Chromatography of Photocopy Toners**  
Journal of Forensic Identification, 2004. Vol.54, No.1.
- **Water Soaked Documents: A Study on Effect of Immersion**  
3rd European Academy of Forensic Science Meeting (Istanbul Turkey) September 2003.
- **A Study of Handwriting of Visually Impaired Persons**  
International Journal of Forensic Document Examiners, Jan/Dec 1999. Vol. 5.
- **Line Quality Defects: Defective Writing Instruments Versus Forgery**  
14th International Symposium on Forensic Sciences (Adelaide, Australia) October 1998.
- **Eyes Tell the Truth**  
14th International Symposium on Forensic Sciences (Adelaide, Australia) October 1998.
- **Application of ESDA in Demonstrating Traced Forgeries**  
Forensic Science International, 1995. Vol. 75.
- **Thin-layer Chromatographic Analysis of Some Red and Green Ballpoint Pen Inks**  
The Indian Journal of Criminology and Criminalistics, 1995. Vol. 16.
- **A False Document Bearing Genuine Thumb Prints**  
International Criminal Police Review, 1995. Vol. 75, No.1.
- **Determining Sequence of Intersecting Ball Pen Lines and Correctable Carbon Ribbon Strokes**  
Forensic Science International, 1993. Vol. 64, No.2.
- **Thin-layer Chromatography of Computer Ribbon Inks**  
Forensic Science International, 1992. Vol. 53, No.1.
- **Developing and Fixing Latent Fingerprints: A Simple Method**  
Canadian Society Forensic Science Journal, 1992. Vol. 25, No.2.
- **Preserving ESDA Images: A New Approach**  
Forensic Science International, 1991. Vol. 52, No.1.
- **Photographing Indented Impressions Under Oblique Light : A Simple Modification**  
Journal of Forensic Science Society, 1990. Vol. 30, No. 4.
- **Thin-layer Chromatographic Analysis of Fiber-Tip and Hi-tech Pen Inks**



Indian Journal of Forensic Sciences, 1990. Vol. 4.

- **Thin-layer Chromatographic Analysis of Indian Stamp Pad Inks**  
Forensic Sciences International, 1989. Vol. 42, No.3.
- **Photographic Demonstration of Erasures and Alterations: A New Approach**  
Indian Journal of Forensic Sciences, 1988. Vol. 2.
- **A Simple Method of Determining the Sequence of Intersecting Ball Pen Lines**  
Journal of Forensic Science Society, 1987. Vol. 27.

### **Continuing Education**

Attended 68th Annual Conference of American Society of Questioned Document Examiners, held jointly with the Southwestern Association of Forensic Document Examiners, Victoria Canada, 2010.

Attended 63rd Annual Conference of American Society of Questioned Document Examiners, Montreal Canada, 2005.

Attended 3<sup>rd</sup> European Academy of Forensic Science Meeting, Istanbul Turkey, 2003.  
Presented a research paper.

Attended 14th International Symposium on Forensic Science, Adelaide, Australia, 1998.  
Presented two research papers.

### **Teaching Experience**

July 1983-February 2004

**Guest Faculty: Department of Forensic Science, Punjabi University, Patiala, India**

Delivered lectures on Examination of Questioned Documents and Forensic Photography to post graduate students pursuing for Master's Degree in Forensic Science.

September 2006 to May 2007

**Sessional Instructor Assistant (Head Teaching Assistant), Forensic Science Program, University of Toronto at Mississauga, Ontario**

My duties in this 400 hours assignment included: Attending lectures delivered by guest speakers on various disciplines of Forensic Science, taking notes and conducting tutorials (class size 360 students), preparing four exams, checking exam copies and the research paper assignment on the topic "Handwriting Comparisons".

April 05, 2010

**Guest Speaker: Trent University, Peterborough, Ontario.**

Delivered lecture on the topic "Science of Fingerprints" to Forensic Science students.



### **Work Experience**

#### **Full Time Forensic Document Examiner and Fingerprints Expert**

August 1983 - June 2004: Patiala, Punjab, India.

February 2005 – Present: Toronto, Ontario, Canada.

### **Court Testimony**

Qualified and testified as an expert witness in the scientific field of Forensic Document Examination more than 500 times.

## Copies of Documents



Cochesour out

Dec 30 1968

Dear Sussana

I got all your Mail but I left them unanswered. also I just got back with my family after being away for Six months <sup>at 23 Dec 1968</sup> and my wife HARRIET tells me that the Art Supply's are here stored with a missionary place but the <sup>said</sup> Party is away until after New year's I won't start painting until after New year's for you and Montreal and Toronto Galleries. I don't like to burden you with my PERSONNEL Problem's of the Six months silence but May I say this Much I am now in the stage where I took a good look inside of myself

and saw a Spark- and By  
studying it it burst into a  
flame which will Posses me from  
all my Contacts of Life etc etc,  
I found "Nirvana" and ~~search~~  
Searching him for six months have  
found NIVANA Next within myself,  
my family is doing well and  
~~and~~ I have a New Daughter  
one months old -

Please give me your Correct  
Address-

P.S. Don't worry  
about your Art  
You will own  
them yet and  
Trust me. Thank you

Your friend

NORVAL  
MORRISSEAU

K1



Red Lake ont  
JAN 15 1965

Dear Mrs S, McLeod,

Many thanks for used clothing  
was put into some use, I Regret  
to tell you I am Sorry I was not  
able to Reply Sooner but I was  
Keaped So busy for the past 3 months,  
I will Have a Show at Toronto -  
at Hart House University of Toronto  
Jan 17 till Feb 3, was at Sandy  
Lake for awhile but was not  
there as Originally planned -  
However if you should Write, Write,  
to Red Lake ont I am Sure.  
another two months I will be able  
to finish work I have outline for  
myself, We are all doing fine -  
and I am Extending my  
Warmest Regards to your Family  
and yourself.

Thank you

Yours friend

Harold Morrison

Red Lake ont

K2



So I will close. Trust to hear  
from you Regards to the final  
or past payment of the  
Art.

Thank you -

Sours Truly

Norval Morriseau  
~~MORRISSEAU~~

K3

Red La Ke

K4- Book "The Art of Norval Morrisseau"

# The Art of Norval Morrisseau

*Lister Sinclair*  
*Jack Pollock*

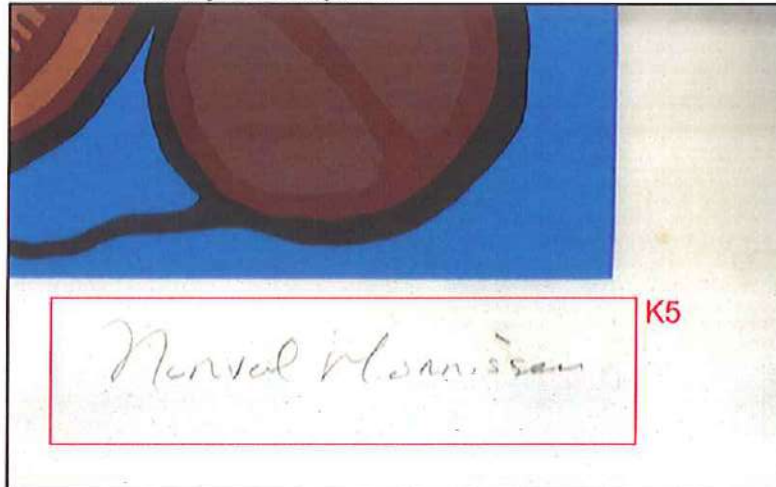
**Lister Sinclair**

**Jack Pollock**

*Norval Morrisseau*

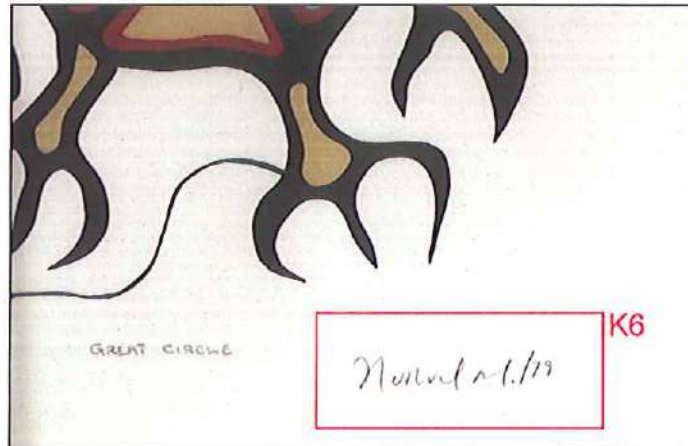
K4

K5- "Community Development"



K5

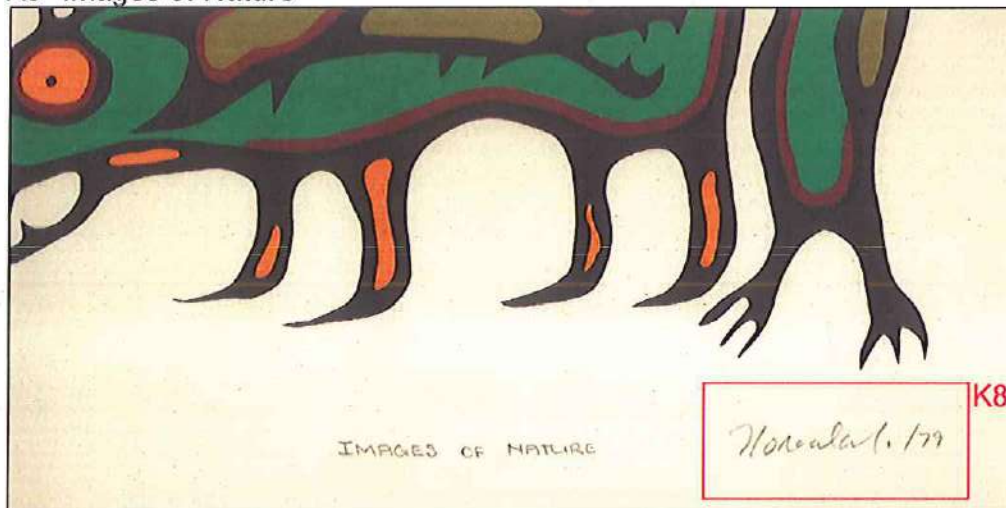
K6 "Great Circle"



K7 "Vision to its Soul"

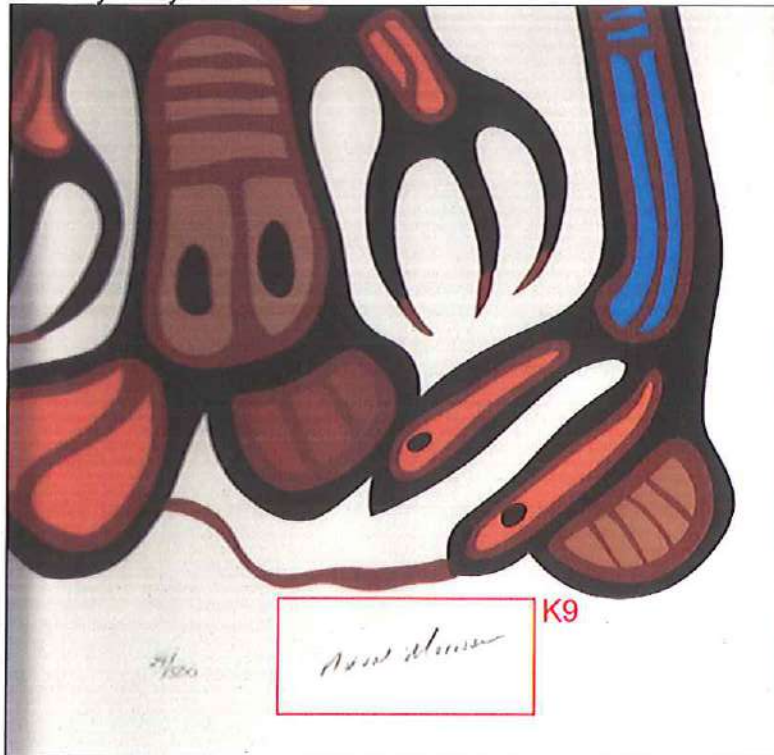


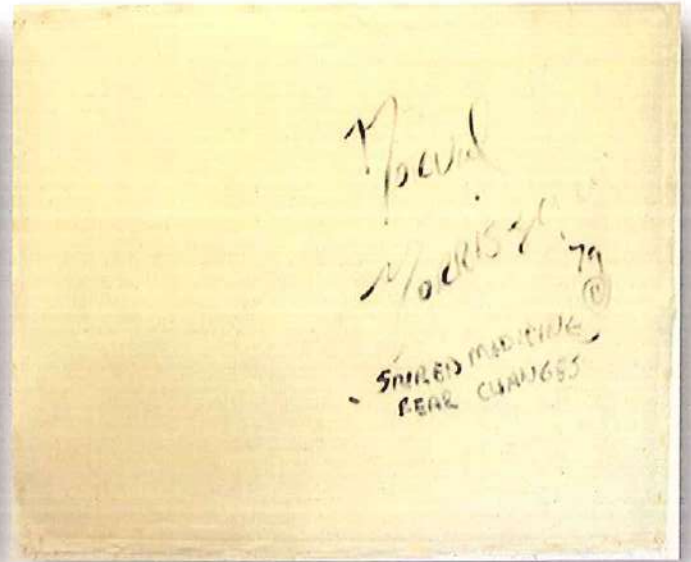
K8-"Images of Nature"



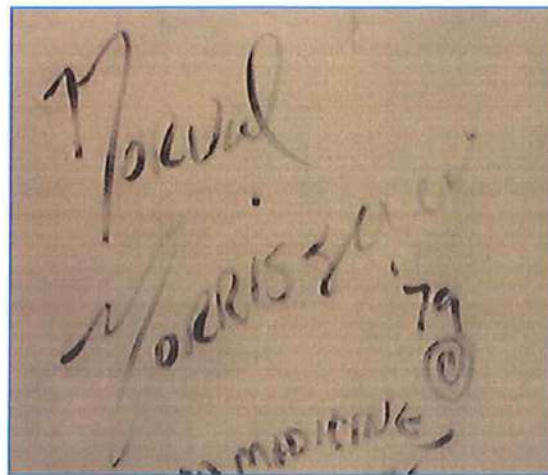


K9- "Ojibway Thunderbird "

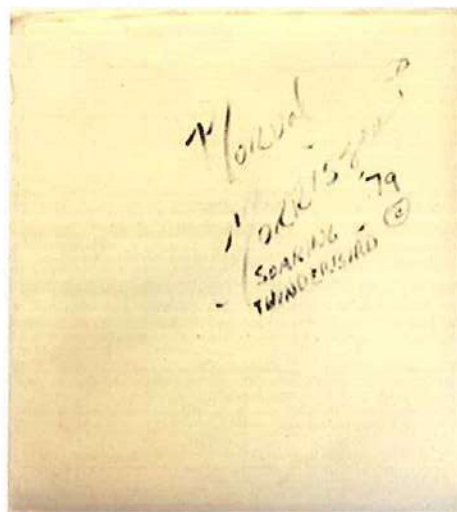
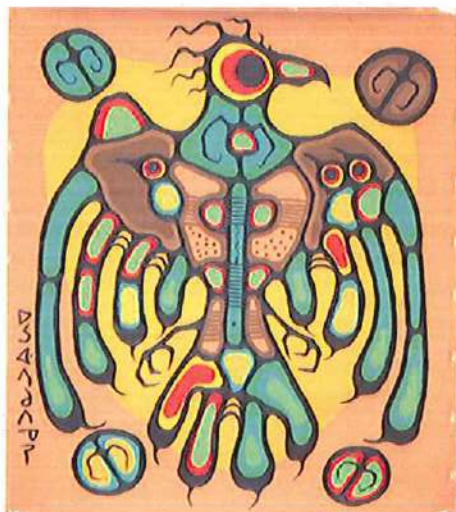




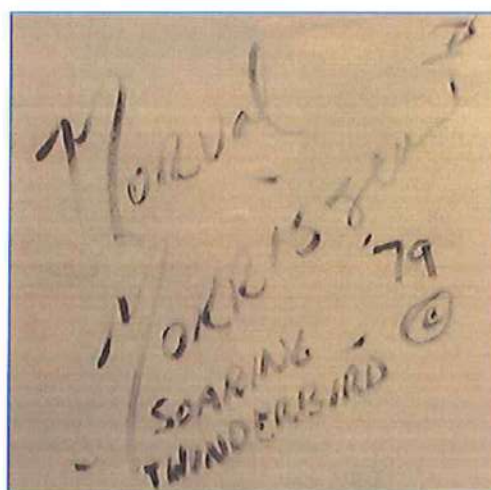
# SACRED MEDICINE BEAR CHANGES



Known Signature-K10



SOARING THUNDERBIRD



Known Signature-K11



ANOC-PC

ANOC-PC

## *Certificate of Authenticity*



*Title of Artwork:* GREAT JOURNEY, 1978

*Dimensions of Artwork:* 26 (height) x 32 (width) inches

*Medium:* Acrylic on Canvas

*I, Norval Morrisseau (Copper Thunderbird),  
declare the artwork pictured and described above to be  
an original and authentic piece of art painted by myself.  
I am signing this certificate witnessed by my thumbprint.*

Norval  
Morrisseau

K12

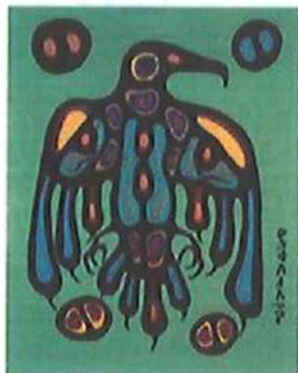
**Norval Morrisseau**

This 11<sup>th</sup> day of April, 2002  
Thunder Bay, Ontario

ANSCOP

ANSCOP

## *Certificate of Authenticity*



*Title of Artwork: THUNDERBIRD-1 of 2, 1977*  
*Dimensions of Artwork: 30 (height) x 22 (width) inches*  
*Medium: Acrylic on Canvas*

*I, Norval Morrisseau (Copper Thunderbird),  
declare the artwork pictured and described above to be  
an original and authentic piece of art painted by myself.  
I am signing this certificate witnessed by my thumbprint.*

*Norval Morrisseau*

K13



**Norval Morrisseau**

*This 11<sup>th</sup> day of April, 2002  
Thunder Bay, Ontario*

ΔΔΔ<ΔΔΔΔ

ΔΔΔ<ΔΔΔΔ

## *Certificate of Authenticity*



*Title of Artwork: "Untitled", 1980*

*Dimensions of Artwork: 30 (height) x 26 (width) inches*

*Medium: Acrylic on Canvas*

*I, Norval Morrisseau (Copper Thunderbird),  
declare the artwork pictured and described above to be  
an original and authentic piece of art painted by myself.  
I am signing this certificate witnessed by my thumbprint.*

Norval Morrisseau

**Norval Morrisseau**

K14



*This 11<sup>th</sup> day of April, 2002  
Thunder Bay, Ontario*



ANSCAP

ANSCAP

## *Certificate of Authenticity*

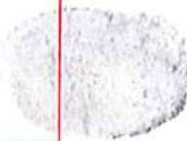


*Title of Artwork: THUNDERBIRD-2 of 2, 1977*  
*Dimensions of Artwork: 30 (height) x 28 (width) inches*  
*Medium: Acrylic on Canvas*

*I, Norval Morrisseau (Copper Thunderbird),  
declare the artwork pictured and described above to be  
an original and authentic piece of art painted by myself.  
I am signing this certificate witnessed by my thumbprint.*

*Norval Morrisseau*

K15



**Norval Morrisseau**

*This 11<sup>th</sup> day of April, 2002  
Thunder Bay, Ontario*

ANCC-PC-PH

ANCC-PC-PH

## *Certificate of Authenticity*



*Title of Artwork:* THUNDERBIRD AND EVIL SERPENT, 1976

*Dimensions of Artwork:* 30 (height) x 23 (width) inches

*Medium:* Acrylic on Canvas

*I, Norval Morrisseau (Copper Thunderbird),  
declare the artwork pictured and described above to be  
an original and authentic piece of art painted by myself.  
I am signing this certificate witnessed by my thumbprint.*

*Norval Morrisseau*

K16



**Norval Morrisseau**

This 11<sup>th</sup> day of April, 2002  
Thunder Bay, Ontario

## Certificate of Authenticity



*Title of Artwork:* INORGANIC BEING WITH SHAMANS, 1976

*Dimensions of Artwork:* 32 (height) x 26 (width) inches

*Medium:* Acrylic on Canvas

*I, Norval Morrisseau (Copper Thunderbird),  
declare the artwork pictured and described above to be  
an original and authentic piece of art painted by myself.  
I am signing this certificate witnessed by my thumbprint.*

K17

**Norval Morrisseau**



This 11<sup>th</sup> day of April, 2002  
Thunder Bay, Ontario



ANOC-OC-PM

ANOC-OC-PM

# Certificate of Authenticity



Title of Artwork: "You're in the forth Dimension"  
 Dimensions of Artwork: 30" (height) x 47" (width) inches  
 Medium: Acrylic on canvas

I, Norval Morrisseau (Copper Thunderbird),  
 declare the artwork pictured and described above to be  
 an original and authentic piece of art painted by myself.  
 I am signing this certificate witnessed by my thumbprint.

Norval Morrisseau

K18



**Norval Morrisseau**

This 12<sup>th</sup> day of April, 2002  
 Thunder Bay, Ontario

