

CONTINUOUS AIR SAMPLES

1st Qtr. 1985

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PDR ADOCK 04003453
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ATLAS MINERALS
MOAB MILL
REGULATORY AFFAIRS DEPARTMENT
CONTINUOUS AIR SAMPLES

Quarter 1ST
1985

Sample Number SI
Date of Collection Jan-March
Location of Sampler NE of Mill
Name of Collector Dale L. Edwards

| <u>Radionuclide</u> | <u>MPC</u> | <u>Concentration</u> <u>uCi/ml</u> | <u>Error</u> <u>Estimate</u> | <u>LLD</u> <u>uCi/ml</u> | <u>%MPC</u> | <u>Name of</u> <u>Assayer</u> |
|---------------------|----------------------|---------------------------------------|---------------------------------|-----------------------------|-------------|----------------------------------|
| U-Nat | 5×10^{-12} | | | 1×10^{-16} | | |
| Rn222 | 30×10^{-10} | | | 2×10^{-10} | | |
| Pb210 | 4×10^{-12} | | | 1×10^{-15} | | |

1st Quarter

| | | | | | | |
|--------|----------------------|------------------------|------------------------|---------------------|--|----------|
| Th-230 | 8×10^{-14} | 5.23×10^{-16} | 3.56×10^{-16} | 1×10^{-16} | | EDA |
| Ra-226 | 3×10^{-12} | 5.34×10^{-16} | 3.56×10^{-16} | 1×10^{-16} | | EDA |
| Rn-222 | 30×10^{-10} | 1.63×10^{-9} | | | | Terradex |

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P212

ATLAS MINERALS
MOAB MILL
REGULATORY AFFAIRS DEPARTMENT
CONTINUOUS AIR SAMPLES

Quarter 1st
1985

Sample Number S2
Date of Collection Jan - March
Location of Sampler Mill Salvage Yard
Name of Collector Dale L. Edwards

| <u>Radionuclide</u> | <u>MPC</u> | <u>Concentration uCi/ml</u> | <u>Error Estimate</u> | <u>LLD uCi/ml</u> | <u>%MPC</u> | <u>Name of Assayer</u> |
|---------------------|----------------------|---------------------------------|---------------------------|-----------------------|-------------|----------------------------|
| U-Nat | 5×10^{-12} | _____ | _____ | 1×10^{-16} | _____ | _____ |
| Rn222 | 30×10^{-10} | _____ | _____ | 2×10^{-10} | _____ | _____ |
| Pb210 | 4×10^{-12} | _____ | _____ | 1×10^{-15} | _____ | _____ |

1st Quarter

| | | | | | | |
|--------|----------------------|------------------------|------------------------|---------------------|-------|----------|
| Th-230 | 8×10^{-14} | 2.27×10^{-15} | 6.20×10^{-16} | 1×10^{-16} | _____ | EDA |
| Ra-226 | 3×10^{-12} | 1.43×10^{-15} | 5.17×10^{-16} | 1×10^{-16} | _____ | EDA |
| Rn-222 | 30×10^{-10} | 2.39×10^{-9} | _____ | _____ | _____ | Terradex |

DLE
R107

ATLAS MINERALS
MOAB MILL
REGULATORY AFFAIRS DEPARTMENT
CONTINUOUS AIR SAMPLES

Quarter 1st
1985

Sample Number S3

Date of Collection Jan-March

Location of Sampler NW Mill Tailings Pond

Name of Collector Dale L. Edwards

| <u>Radionuclide</u> | <u>MPC</u> | <u>Concentration</u> <u>uCi/ml</u> | <u>Error</u> <u>Estimate</u> | <u>LLD</u> <u>uCi/ml</u> | <u>%MPC</u> | <u>Name of</u> <u>Assayer</u> |
|---------------------|----------------------|---------------------------------------|---------------------------------|-----------------------------|-------------|----------------------------------|
| U-Nat | 5×10^{-12} | | | 1×10^{-16} | | |
| Rn222 | 30×10^{-10} | | | 2×10^{-10} | | |
| Pb210 | 4×10^{-12} | | | 1×10^{-15} | | |

1st Quarter

| | | | | | | |
|--------|----------------------|------------------------|------------------------|---------------------|--|----------|
| Th-230 | 8×10^{-14} | 3.95×10^{-14} | 2.19×10^{-15} | 1×10^{-16} | | EDA |
| Ra-226 | 3×10^{-12} | 8.55×10^{-14} | 4.39×10^{-15} | 1×10^{-16} | | EDA |
| Rn-222 | 30×10^{-10} | 5.2×10^{-10} | | | | Terradex |

DLE
#103

ATLAS MINERALS
MOAB MILL
REGULATORY AFFAIRS DEPARTMENT
CONTINUOUS AIR SAMPLES

Quarter 1st
1985

Sample Number S4
Date of Collection Jan-March
Location of Sampler Arches Hdqrs
Name of Collector Dale L. Edwards

| <u>Radionuclide</u> | <u>MPC</u> | <u>Concentration</u> <u>uCi/ml</u> | <u>Error</u> <u>Estimate</u> | <u>LLD</u> <u>uCi/ml</u> | <u>%MPC</u> | <u>Name of</u> <u>Assayer</u> |
|---------------------|----------------------|---------------------------------------|---------------------------------|-----------------------------|-------------|----------------------------------|
| U-Nat | 5×10^{-12} | _____ | _____ | 1×10^{-16} | _____ | _____ |
| Rn222 | 30×10^{-10} | _____ | _____ | 2×10^{-10} | _____ | _____ |
| Pb210 | 4×10^{-12} | _____ | _____ | 1×10^{-15} | _____ | _____ |

1st Quarter

| | | | | | | |
|--------|----------------------|------------------------|------------------------|---------------------|-------|-----------------|
| Th-230 | 8×10^{-14} | 1.18×10^{-15} | 4.76×10^{-16} | 1×10^{-16} | _____ | <u>EDA</u> |
| Ra-226 | 3×10^{-12} | 3.11×10^{-15} | 6.21×10^{-16} | 1×10^{-16} | _____ | <u>EDA</u> |
| Rn-222 | 30×10^{-10} | 3.2×10^{-10} | _____ | _____ | _____ | <u>Terradex</u> |

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ATLAS MINERALS
MOAB MILL
REGULATORY AFFAIRS DEPARTMENT
CONTINUOUS AIR SAMPLES

Quarter 1st
1985

Sample Number S6

Date of Collection Jan - March

Location of Sampler Approx. 2 miles S. of mill

Name of Collector Dale L. Edwards

| <u>Radionuclide</u> | <u>MPC</u> | <u>Concentration</u> <u>uCi/ml</u> | <u>Error</u> <u>Estimate</u> | <u>LLD</u> <u>uCi/ml</u> | <u>%MPC</u> | <u>Name of</u> <u>Assayer</u> |
|---------------------|----------------------|---------------------------------------|---------------------------------|-----------------------------|-------------|----------------------------------|
| U-Nat | 5×10^{-12} | _____ | _____ | 1×10^{-16} | _____ | _____ |
| Rn222 | 30×10^{-10} | _____ | _____ | 2×10^{-10} | _____ | _____ |
| Pb210 | 4×10^{-12} | _____ | _____ | 1×10^{-15} | _____ | _____ |

1st Quarter

| | | | | | | |
|--------|----------------------|------------------------|------------------------|---------------------|-------|----------|
| Th-230 | 8×10^{-14} | 3.43×10^{-16} | 3.00×10^{-16} | 1×10^{-16} | _____ | EDA |
| Ra-226 | 3×10^{-12} | 8.15×10^{-16} | 4.08×10^{-16} | 1×10^{-16} | _____ | EDA |
| Rn-222 | 30×10^{-10} | 4.0×10^{-10} | _____ | _____ | _____ | Terradex |

CONTINUOUS AIR SAMPLES

2nd Qtr. 1985

OLE
RDB

ATLAS MINERALS
MOAB MILL
REGULATORY AFFAIRS DEPARTMENT

CONTINUOUS AIR SAMPLES

Quarter 2nd 1985

Sample Number S1

Date of Collection April - June

Location of Sampler NE of Mill

Name of Collector Dale L. Edwards

| <u>Radionuclide</u> | <u>MPC</u> | <u>Concentration</u> <u>uCi/ml</u> | <u>Error</u> <u>Estimate</u> | <u>LLD</u> <u>uCi/ml</u> | <u>%MPC</u> | <u>Name of</u> <u>Assayer</u> |
|---------------------|----------------------|---------------------------------------|---------------------------------|-----------------------------|-------------|----------------------------------|
| U-Nat | 5×10^{-12} | | | 1×10^{-16} | | |
| Rn222 | 30×10^{-10} | | | 2×10^{-10} | | |
| Pb210 | 4×10^{-12} | | | 1×10^{-15} | | |

2nd Quarter

| | | | | | | |
|--------|----------------------|------------------------|------------------------|---------------------|--|----------|
| Th-230 | 8×10^{-14} | 8.83×10^{-16} | 4.63×10^{-16} | 1×10^{-16} | | EDA |
| Ra-226 | 3×10^{-12} | 6.94×10^{-16} | 4.00×10^{-16} | 1×10^{-16} | | EDA |
| Rn-222 | 30×10^{-10} | 1.92×10^{-9} | | | | Terradev |

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1985

ATLAS MINERALS
MOAB MILL
REGULATORY AFFAIRS DEPARTMENT

CONTINUOUS AIR SAMPLES

Quarter 2nd 1985

Sample Number S2

Date of Collection April - June

Location of Sampler Mill Salvage Yard

Name of Collector Dale L. Edwards

| <u>Radionuclide</u> | <u>MPC</u> | <u>Concentration</u> <u>uCi/ml</u> | <u>Error</u> <u>Estimate</u> | <u>LLD</u> <u>uCi/ml</u> | <u>%MPC</u> | <u>Name of</u> <u>Assayer</u> |
|---------------------|----------------------|---------------------------------------|---------------------------------|-----------------------------|-------------|----------------------------------|
| U-Nat | 5×10^{-12} | _____ | _____ | 1×10^{-16} | _____ | _____ |
| Rn222 | 30×10^{-10} | _____ | _____ | 2×10^{-10} | _____ | _____ |
| Pb210 | 4×10^{-12} | _____ | _____ | 1×10^{-15} | _____ | _____ |

2nd Quarter

| | | | | | | |
|--------|----------------------|------------------------|------------------------|---------------------|-------|----------|
| Th-230 | 8×10^{-14} | 1.89×10^{-15} | 5.93×10^{-16} | 1×10^{-16} | _____ | EDA |
| Ra-226 | 3×10^{-12} | 1.82×10^{-15} | 4.98×10^{-16} | 1×10^{-16} | _____ | EDA |
| Rn-222 | 30×10^{-10} | 2.79×10^{-9} | _____ | _____ | _____ | Terradex |

DLE
RFB

ATLAS MINERALS
MOAB MILL
REGULATORY AFFAIRS DEPARTMENT

CONTINUOUS AIR SAMPLES

Quarter 2nd 1985

Sample Number S3

Date of Collection April - June

Location of Sampler NW Mill Tailings Pond

Name of Collector Dale L. Edwards

| <u>Radionuclide</u> | <u>MPC</u> | <u>Concentration uCi/ml</u> | <u>Error Estimate</u> | <u>LLD uCi/ml</u> | <u>%MPC</u> | <u>Name of Assayer</u> |
|---------------------|----------------------|---------------------------------|---------------------------|-----------------------|-------------|----------------------------|
| U-Nat | 5×10^{-12} | _____ | _____ | 1×10^{-16} | _____ | _____ |
| Rn222 | 30×10^{-10} | _____ | _____ | 2×10^{-10} | _____ | _____ |
| Pb210 | 4×10^{-12} | _____ | _____ | 1×10^{-15} | _____ | _____ |

2nd Quarter

| | | | | | | |
|--------|----------------------|------------------------|------------------------|---------------------|-------|----------|
| Th-230 | 8×10^{-14} | 1.79×10^{-14} | 1.79×10^{-15} | 1×10^{-16} | _____ | EDA |
| Ra-226 | 3×10^{-12} | 3.98×10^{-14} | 1.99×10^{-15} | 1×10^{-16} | _____ | EDA |
| Rn-222 | 30×10^{-10} | 9.4×10^{-10} | _____ | _____ | _____ | Terradex |

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ATLAS MINERALS
MOAB MILL
REGULATORY AFFAIRS DEPARTMENT

CONTINUOUS AIR SAMPLES

Quarter 2nd 1985

Sample Number S4

Date of Collection April - June

Location of Sampler Arches Headquarters

Name of Collector Dale L. Edwards

| <u>Radionuclide</u> | <u>MPC</u> | <u>Concentration</u> <u>uCi/ml</u> | <u>Error</u> <u>Estimate</u> | <u>LLD</u> <u>uCi/ml</u> | <u>%MPC</u> | <u>Name of</u> <u>Assayer</u> |
|---------------------|----------------------|---------------------------------------|---------------------------------|-----------------------------|-------------|----------------------------------|
| | | | | 1×10^{-16} | | |
| U-Nat | 5×10^{-12} | | | | | |
| Rn222 | 30×10^{-10} | | | 2×10^{-10} | | |
| Pb210 | 4×10^{-12} | | | 1×10^{-15} | | |

2nd Quarter

| | | | | | | |
|--------|----------------------|------------------------|------------------------|---------------------|--|----------------|
| Th-230 | 8×10^{-14} | 5.92×10^{-16} | 3.63×10^{-16} | 1×10^{-16} | | <u>FDA</u> |
| Ra-226 | 3×10^{-12} | 9.74×10^{-16} | 3.82×10^{-16} | 1×10^{-16} | | <u>FDA</u> |
| Rn-222 | 30×10^{-10} | 5.9×10^{-10} | | | | <u>Terrade</u> |

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ATLAS MINERALS
MOAB MILL
REGULATORY AFFAIRS DEPARTMENT

CONTINUOUS AIR SAMPLES

Quarter 2nd 1985

Sample Number S6

Date of Collection April - June

Location of Sampler Approx. 2 miles S. of Mill

Name of Collector Dale L. Edwards

| <u>Radionuclide</u> | <u>MPC</u> | <u>Concentration</u> <u>uCi/ml</u> | <u>Error</u> <u>Estimate</u> | <u>LLD</u> <u>uCi/ml</u> | <u>%MPC</u> | <u>Name of</u> <u>Assayer</u> |
|---------------------|----------------------|---------------------------------------|---------------------------------|-----------------------------|-------------|----------------------------------|
| U-Nat | 5×10^{-12} | _____ | _____ | 1×10^{-16} | _____ | _____ |
| Rn222 | 30×10^{-10} | _____ | _____ | 2×10^{-10} | _____ | _____ |
| Pb210 | 4×10^{-12} | _____ | _____ | 1×10^{-15} | _____ | _____ |

2nd Quarter

| | | | | | | |
|--------|----------------------|------------------------|------------------------|---------------------|-------|----------------|
| Th-230 | 8×10^{-14} | 8.02×10^{-16} | 4.20×10^{-16} | 1×10^{-16} | _____ | <u>EDA</u> |
| Ra-226 | 3×10^{-12} | 5.17×10^{-16} | 3.06×10^{-16} | 1×10^{-16} | _____ | <u>EDA</u> |
| Rn-222 | 30×10^{-10} | 3.3×10^{-10} | _____ | _____ | _____ | <u>Terrade</u> |