

**Daily Analysis Runlog For Sequence/QC Batch ID # LB85339**

|                  |  |                                                |  |                |  |  |
|------------------|--|------------------------------------------------|--|----------------|--|--|
| Review By        |  | Review On                                      |  |                |  |  |
| SubDirectory     |  | LB85339                                        |  | Test : Cyanide |  |  |
| <b>STD. NAME</b> |  | <b>STD REF.#</b>                               |  |                |  |  |
| ICAL Standard    |  | WP52090,WP52089,WP52088,WP52087,WP52086,WP5285 |  |                |  |  |
| ICV Standard     |  | WP52091                                        |  |                |  |  |
| CCV Standard     |  | WP52092                                        |  |                |  |  |
| ICSA Standard    |  |                                                |  |                |  |  |
| CRI Standard     |  |                                                |  |                |  |  |
| LCS Standard     |  |                                                |  |                |  |  |
| Chk Standard     |  | WP52140,WP50159,WP52626                        |  |                |  |  |

  

| Sr# | SampleID  | ClientID | QcType | Date           | Comment | Status |
|-----|-----------|----------|--------|----------------|---------|--------|
| 1   | S0.0      | S0.0     | CAL1   | 01/13/17 09:19 |         | OK     |
| 2   | S5.0      | S5.0     | CAL2   | 01/13/17 09:19 |         | OK     |
| 3   | S10.0     | S10.0    | CAL3   | 01/13/17 09:19 |         | OK     |
| 4   | S100.0    | S100.0   | CAL4   | 01/13/17 09:19 |         | OK     |
| 5   | S250.0    | S250.0   | CAL5   | 01/13/17 09:19 |         | OK     |
| 6   | S500.0    | S500.0   | CAL6   | 01/13/17 09:19 |         | OK     |
| 7   | ICV       | ICV      | ICV    | 01/13/17 10:50 |         | OK     |
| 8   | ICB       | ICB      | ICB    | 01/13/17 10:50 |         | OK     |
| 9   | CCV001    | CCV001   | CCV    | 01/13/17 10:50 |         | OK     |
| 10  | CCB001    | CCB001   | CCB    | 01/13/17 10:50 |         | OK     |
| 11  | PB95946BL | PBS006   | MB     | 01/13/17 10:50 |         | OK     |
| 12  | I1129-01  | ME5BJ5   | SAM    | 01/13/17 10:50 |         | OK     |
| 13  | I1129-02  | ME5BJ6   | SAM    | 01/13/17 10:50 |         | OK     |
| 14  | I1129-03  | ME5BJ7   | SAM    | 01/13/17 10:50 |         | OK     |
| 15  | I1129-04  | ME5BJ8   | SAM    | 01/13/17 10:50 |         | OK     |
| 16  | I1129-06  | ME5BK0   | SAM    | 01/13/17 10:50 |         | OK     |
| 17  | I1129-07  | ME5BK1   | SAM    | 01/13/17 10:57 |         | OK     |
| 18  | I1129-09  | ME5BK3   | SAM    | 01/13/17 10:58 |         | OK     |
| 19  | I1129-10  | ME5BK4   | SAM    | 01/13/17 10:58 |         | OK     |
| 20  | I1129-11  | ME5BK5   | SAM    | 01/13/17 10:58 |         | OK     |
| 21  | I1129-12  | ME5BK6   | SAM    | 01/13/17 10:58 |         | OK     |

**Daily Analysis Runlog For Sequence/QC Batch ID # LB85339**

|               |          |                                                                                                     |           |                |  |    |
|---------------|----------|-----------------------------------------------------------------------------------------------------|-----------|----------------|--|----|
| Review By     |          |                                                                                                     | Review On |                |  |    |
| SubDirectory  |          | LB85339                                                                                             |           | Test : Cyanide |  |    |
| STD. NAME     |          | STD REF.#                                                                                           |           |                |  |    |
| ICAL Standard |          | WP52090,WP52089,WP52088,WP52087,WP52086,WP5285<br>WP52091<br>WP52092<br><br>WP52140,WP50159,WP52626 |           |                |  |    |
| ICV Standard  |          |                                                                                                     |           |                |  |    |
| CCV Standard  |          |                                                                                                     |           |                |  |    |
| ICSA Standard |          |                                                                                                     |           |                |  |    |
| CRI Standard  |          |                                                                                                     |           |                |  |    |
| LCS Standard  |          |                                                                                                     |           |                |  |    |
| Chk Standard  |          |                                                                                                     |           |                |  |    |
| 22            | I1129-15 | ME5BK9                                                                                              | SAM       | 01/13/17 10:58 |  | OK |
| 23            | I1129-16 | ME5BL0                                                                                              | SAM       | 01/13/17 10:58 |  | OK |
| 24            | I1129-17 | ME5BL1                                                                                              | SAM       | 01/13/17 10:58 |  | OK |
| 25            | I1129-18 | ME5BL2                                                                                              | SAM       | 01/13/17 11:04 |  | OK |
| 26            | I1129-19 | ME5BL3                                                                                              | SAM       | 01/13/17 11:04 |  | OK |
| 27            | I1129-20 | ME5BL4                                                                                              | SAM       | 01/13/17 11:04 |  | OK |
| 28            | I1129-21 | ME5BL4D                                                                                             | DUP       | 01/13/17 11:04 |  | OK |
| 29            | I1129-22 | ME5BL4S                                                                                             | MS        | 01/13/17 11:04 |  | OK |
| 30            | I1129-05 | ME5BJ9                                                                                              | SAM       | 01/13/17 11:26 |  | OK |
| 31            | I1129-08 | ME5BK2                                                                                              | SAM       | 01/13/17 11:26 |  | OK |
| 32            | I1129-13 | ME5BK7                                                                                              | SAM       | 01/13/17 11:26 |  | OK |
| 33            | I1129-14 | ME5BK8                                                                                              | SAM       | 01/13/17 11:26 |  | OK |
| 34            | CCV002   | CCV002                                                                                              | CCV       | 01/13/17 11:26 |  | OK |
| 35            | CCB002   | CCB002                                                                                              | CCB       | 01/13/17 11:49 |  | OK |



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## Report of Analysis

|                   |          |                 |                        |
|-------------------|----------|-----------------|------------------------|
| Client:           |          | Date Collected: | 12/12/2016 12:00:00 AM |
| Project:          | LB85339  | Date Received:  | 1/11/2017 12:00:00 AM  |
| Client Sample ID: | ME5BJ5   | SDG No.:        | LB85339                |
| Lab Sample ID:    | I1129-01 | Matrix:         | Solid                  |
| Level (low/med):  | low      | % Solid:        | 95.1                   |

| Cas     | Parameter | Conc. | Qua. | DF | MDL   | LOD   | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met.   |
|---------|-----------|-------|------|----|-------|-------|------------|-------|------------|------------|------------|
| 57-12-5 | Cyanide   | 0.19  | J    | 1  | 0.056 | 0.013 | 0.51       | mg/kg | 01/12/2017 | 01/13/2017 | ISM02.2_CN |



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## Report of Analysis

|                   |          |                 |                        |
|-------------------|----------|-----------------|------------------------|
| Client:           |          | Date Collected: | 12/12/2016 12:00:00 AM |
| Project:          | LB85339  | Date Received:  | 1/11/2017 12:00:00 AM  |
| Client Sample ID: | ME5BJ6   | SDG No.:        | LB85339                |
| Lab Sample ID:    | I1129-02 | Matrix:         | Solid                  |
| Level (low/med):  | low      | % Solid:        | 99.2                   |

| Cas     | Parameter | Conc. | Qua. | DF | MDL   | LOD   | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met.   |
|---------|-----------|-------|------|----|-------|-------|------------|-------|------------|------------|------------|
| 57-12-5 | Cyanide   | 0.42  | J    | 1  | 0.054 | 0.012 | 0.49       | mg/kg | 01/12/2017 | 01/13/2017 | ISM02.2_CN |



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| Client:           |          | Date Collected: | 12/12/2016 12:00:00 AM |
| Project:          | LB85339  | Date Received:  | 1/11/2017 12:00:00 AM  |
| Client Sample ID: | ME5BJ7   | SDG No.:        | LB85339                |
| Lab Sample ID:    | I1129-03 | Matrix:         | Solid                  |
| Level (low/med):  | low      | % Solid:        | 99.3                   |

| Cas     | Parameter | Conc. | Qua. | DF | MDL   | LOD   | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met.   |
|---------|-----------|-------|------|----|-------|-------|------------|-------|------------|------------|------------|
| 57-12-5 | Cyanide   | 0.14  | J    | 1  | 0.053 | 0.012 | 0.48       | mg/kg | 01/12/2017 | 01/13/2017 | ISM02.2_CN |



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| Project:          | LB85339  | Date Received:  | 1/11/2017 12:00:00 AM  |
| Client Sample ID: | ME5BJ8   | SDG No.:        | LB85339                |
| Lab Sample ID:    | I1129-04 | Matrix:         | Solid                  |
| Level (low/med):  | low      | % Solid:        | 98                     |

| Cas     | Parameter | Conc. | Qua. | DF | MDL   | LOD   | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met.   |
|---------|-----------|-------|------|----|-------|-------|------------|-------|------------|------------|------------|
| 57-12-5 | Cyanide   | 0.13  | J    | 1  | 0.055 | 0.013 | 0.5        | mg/kg | 01/12/2017 | 01/13/2017 | ISM02.2_CN |



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| Client:           |          | Date Collected: | 12/12/2016 12:00:00 AM |
| Project:          | LB85339  | Date Received:  | 1/11/2017 12:00:00 AM  |
| Client Sample ID: | ME5BJ9   | SDG No.:        | LB85339                |
| Lab Sample ID:    | I1129-05 | Matrix:         | Solid                  |
| Level (low/med):  | low      | % Solid:        | 99.2                   |

| Cas     | Parameter | Conc. | Qua. | DF | MDL   | LOD   | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met.   |
|---------|-----------|-------|------|----|-------|-------|------------|-------|------------|------------|------------|
| 57-12-5 | Cyanide   | 0.39  | J    | 1  | 0.055 | 0.013 | 0.5        | mg/kg | 01/12/2017 | 01/13/2017 | ISM02.2_CN |



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| Client:           |          | Date Collected: | 12/12/2016 12:00:00 AM |
| Project:          | LB85339  | Date Received:  | 1/11/2017 12:00:00 AM  |
| Client Sample ID: | ME5BK0   | SDG No.:        | LB85339                |
| Lab Sample ID:    | I1129-06 | Matrix:         | Solid                  |
| Level (low/med):  | low      | % Solid:        | 91.1                   |

| Cas     | Parameter | Conc. | Qua. | DF | MDL   | LOD   | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met.   |
|---------|-----------|-------|------|----|-------|-------|------------|-------|------------|------------|------------|
| 57-12-5 | Cyanide   | 0.17  | J    | 1  | 0.057 | 0.013 | 0.52       | mg/kg | 01/12/2017 | 01/13/2017 | ISM02.2_CN |



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| Client:           |          | Date Collected: | 12/12/2016 12:00:00 AM |
| Project:          | LB85339  | Date Received:  | 1/11/2017 12:00:00 AM  |
| Client Sample ID: | ME5BK1   | SDG No.:        | LB85339                |
| Lab Sample ID:    | I1129-07 | Matrix:         | Solid                  |
| Level (low/med):  | low      | % Solid:        | 96                     |

| Cas     | Parameter | Conc. | Qua. | DF | MDL   | LOD   | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met.   |
|---------|-----------|-------|------|----|-------|-------|------------|-------|------------|------------|------------|
| 57-12-5 | Cyanide   | 0.17  | J    | 1  | 0.056 | 0.013 | 0.51       | mg/kg | 01/12/2017 | 01/13/2017 | ISM02.2_CN |



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| Client:           |          | Date Collected: | 12/12/2016 12:00:00 AM |
| Project:          | LB85339  | Date Received:  | 1/11/2017 12:00:00 AM  |
| Client Sample ID: | ME5BK2   | SDG No.:        | LB85339                |
| Lab Sample ID:    | I1129-08 | Matrix:         | Solid                  |
| Level (low/med):  | low      | % Solid:        | 99.3                   |

| Cas     | Parameter | Conc. | Qua. | DF | MDL   | LOD   | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met.   |
|---------|-----------|-------|------|----|-------|-------|------------|-------|------------|------------|------------|
| 57-12-5 | Cyanide   | 0.14  | J    | 1  | 0.053 | 0.012 | 0.48       | mg/kg | 01/12/2017 | 01/13/2017 | ISM02.2_CN |



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| Client:           |          | Date Collected: | 12/12/2016 12:00:00 AM |
| Project:          | LB85339  | Date Received:  | 1/11/2017 12:00:00 AM  |
| Client Sample ID: | ME5BK3   | SDG No.:        | LB85339                |
| Lab Sample ID:    | I1129-09 | Matrix:         | Solid                  |
| Level (low/med):  | low      | % Solid:        | 99.2                   |

| Cas     | Parameter | Conc. | Qua. | DF | MDL   | LOD   | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met.   |
|---------|-----------|-------|------|----|-------|-------|------------|-------|------------|------------|------------|
| 57-12-5 | Cyanide   | 0.19  | J    | 1  | 0.054 | 0.012 | 0.49       | mg/kg | 01/12/2017 | 01/13/2017 | ISM02.2_CN |



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| Client:           |          | Date Collected: | 12/12/2016 12:00:00 AM |
| Project:          | LB85339  | Date Received:  | 1/11/2017 12:00:00 AM  |
| Client Sample ID: | ME5BK4   | SDG No.:        | LB85339                |
| Lab Sample ID:    | I1129-10 | Matrix:         | Solid                  |
| Level (low/med):  | low      | % Solid:        | 97                     |

| Cas     | Parameter | Conc. | Qua. | DF | MDL   | LOD   | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met.   |
|---------|-----------|-------|------|----|-------|-------|------------|-------|------------|------------|------------|
| 57-12-5 | Cyanide   | 0.13  | J    | 1  | 0.056 | 0.013 | 0.51       | mg/kg | 01/12/2017 | 01/13/2017 | ISM02.2_CN |



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| Client:           |          | Date Collected: | 12/12/2016 12:00:00 AM |
| Project:          | LB85339  | Date Received:  | 1/11/2017 12:00:00 AM  |
| Client Sample ID: | ME5BK5   | SDG No.:        | LB85339                |
| Lab Sample ID:    | I1129-11 | Matrix:         | Solid                  |
| Level (low/med):  | low      | % Solid:        | 84.6                   |

| Cas     | Parameter | Conc. | Qua. | DF | MDL   | LOD   | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met.   |
|---------|-----------|-------|------|----|-------|-------|------------|-------|------------|------------|------------|
| 57-12-5 | Cyanide   | 0.18  | J    | 1  | 0.064 | 0.014 | 0.58       | mg/kg | 01/12/2017 | 01/13/2017 | ISM02.2_CN |



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| Client:           |          | Date Collected: | 12/14/2016 12:00:00 AM |
| Project:          | LB85339  | Date Received:  | 1/11/2017 12:00:00 AM  |
| Client Sample ID: | ME5BK6   | SDG No.:        | LB85339                |
| Lab Sample ID:    | I1129-12 | Matrix:         | Solid                  |
| Level (low/med):  | low      | % Solid:        | 99.6                   |

| Cas     | Parameter | Conc. | Qua. | DF | MDL   | LOD   | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met.   |
|---------|-----------|-------|------|----|-------|-------|------------|-------|------------|------------|------------|
| 57-12-5 | Cyanide   | 0.22  | J    | 1  | 0.053 | 0.012 | 0.48       | mg/kg | 01/12/2017 | 01/13/2017 | ISM02.2_CN |



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| Client:           |          | Date Collected: | 12/14/2016 12:00:00 AM |
| Project:          | LB85339  | Date Received:  | 1/11/2017 12:00:00 AM  |
| Client Sample ID: | ME5BK7   | SDG No.:        | LB85339                |
| Lab Sample ID:    | I1129-13 | Matrix:         | Solid                  |
| Level (low/med):  | low      | % Solid:        | 99.5                   |

| Cas     | Parameter | Conc. | Qua. | DF | MDL   | LOD   | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met.   |
|---------|-----------|-------|------|----|-------|-------|------------|-------|------------|------------|------------|
| 57-12-5 | Cyanide   | 0.27  | J    | 1  | 0.055 | 0.012 | 0.5        | mg/kg | 01/12/2017 | 01/13/2017 | ISM02.2_CN |



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| Client:           |          | Date Collected: | 12/13/2016 12:00:00 AM |
| Project:          | LB85339  | Date Received:  | 1/11/2017 12:00:00 AM  |
| Client Sample ID: | ME5BK8   | SDG No.:        | LB85339                |
| Lab Sample ID:    | I1129-14 | Matrix:         | Solid                  |
| Level (low/med):  | low      | % Solid:        | 97.5                   |

| Cas     | Parameter | Conc. | Qua. | DF | MDL   | LOD   | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met.   |
|---------|-----------|-------|------|----|-------|-------|------------|-------|------------|------------|------------|
| 57-12-5 | Cyanide   | 0.095 | J    | 1  | 0.055 | 0.012 | 0.5        | mg/kg | 01/12/2017 | 01/13/2017 | ISM02.2_CN |



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| Client:           |          | Date Collected: | 12/9/2016 12:00:00 AM |
| Project:          | LB85339  | Date Received:  | 1/11/2017 12:00:00 AM |
| Client Sample ID: | ME5BK9   | SDG No.:        | LB85339               |
| Lab Sample ID:    | I1129-15 | Matrix:         | Solid                 |
| Level (low/med):  | low      | % Solid:        | 68                    |

| Cas     | Parameter | Conc. | Qua. | DF | MDL   | LOD   | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met.   |
|---------|-----------|-------|------|----|-------|-------|------------|-------|------------|------------|------------|
| 57-12-5 | Cyanide   | 0.15  | J    | 1  | 0.079 | 0.018 | 0.72       | mg/kg | 01/12/2017 | 01/13/2017 | ISM02.2_CN |



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| Client:           |          | Date Collected: | 12/9/2016 12:00:00 AM |
| Project:          | LB85339  | Date Received:  | 1/11/2017 12:00:00 AM |
| Client Sample ID: | ME5BL0   | SDG No.:        | LB85339               |
| Lab Sample ID:    | I1129-16 | Matrix:         | Solid                 |
| Level (low/med):  | low      | % Solid:        | 98.3                  |

| Cas     | Parameter | Conc. | Qua. | DF | MDL   | LOD   | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met.   |
|---------|-----------|-------|------|----|-------|-------|------------|-------|------------|------------|------------|
| 57-12-5 | Cyanide   | 0.16  | J    | 1  | 0.055 | 0.013 | 0.5        | mg/kg | 01/12/2017 | 01/13/2017 | ISM02.2_CN |



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| Client:           |          | Date Collected: | 12/9/2016 12:00:00 AM |
| Project:          | LB85339  | Date Received:  | 1/11/2017 12:00:00 AM |
| Client Sample ID: | ME5BL1   | SDG No.:        | LB85339               |
| Lab Sample ID:    | I1129-17 | Matrix:         | Solid                 |
| Level (low/med):  | low      | % Solid:        | 91                    |

| Cas     | Parameter | Conc. | Qua. | DF | MDL  | LOD   | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met.   |
|---------|-----------|-------|------|----|------|-------|------------|-------|------------|------------|------------|
| 57-12-5 | Cyanide   | 0.11  | J    | 1  | 0.06 | 0.014 | 0.55       | mg/kg | 01/12/2017 | 01/13/2017 | ISM02.2_CN |



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| Client:           |          | Date Collected: | 12/9/2016 12:00:00 AM |
| Project:          | LB85339  | Date Received:  | 1/11/2017 12:00:00 AM |
| Client Sample ID: | ME5BL2   | SDG No.:        | LB85339               |
| Lab Sample ID:    | I1129-18 | Matrix:         | Solid                 |
| Level (low/med):  | low      | % Solid:        | 99.6                  |

| Cas     | Parameter | Conc. | Qua. | DF | MDL   | LOD   | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met.   |
|---------|-----------|-------|------|----|-------|-------|------------|-------|------------|------------|------------|
| 57-12-5 | Cyanide   | 0.32  | J    | 1  | 0.053 | 0.012 | 0.48       | mg/kg | 01/12/2017 | 01/13/2017 | ISM02.2_CN |



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| Client:           |          | Date Collected: | 12/9/2016 12:00:00 AM |
| Project:          | LB85339  | Date Received:  | 1/11/2017 12:00:00 AM |
| Client Sample ID: | ME5BL3   | SDG No.:        | LB85339               |
| Lab Sample ID:    | I1129-19 | Matrix:         | Solid                 |
| Level (low/med):  | low      | % Solid:        | 99.5                  |

| Cas     | Parameter | Conc. | Qua. | DF | MDL   | LOD   | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met.   |
|---------|-----------|-------|------|----|-------|-------|------------|-------|------------|------------|------------|
| 57-12-5 | Cyanide   | 0.56  |      | 1  | 0.053 | 0.012 | 0.48       | mg/kg | 01/12/2017 | 01/13/2017 | ISM02.2_CN |



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|-------------------|----------|-----------------|------------------------|
| Client:           |          | Date Collected: | 12/14/2016 12:00:00 AM |
| Project:          | LB85339  | Date Received:  | 1/11/2017 12:00:00 AM  |
| Client Sample ID: | ME5BL4   | SDG No.:        | LB85339                |
| Lab Sample ID:    | I1129-20 | Matrix:         | Solid                  |
| Level (low/med):  | low      | % Solid:        | 99.7                   |

| Cas     | Parameter | Conc. | Qua. | DF | MDL   | LOD   | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met.   |
|---------|-----------|-------|------|----|-------|-------|------------|-------|------------|------------|------------|
| 57-12-5 | Cyanide   | 0.15  | J    | 1  | 0.054 | 0.012 | 0.49       | mg/kg | 01/12/2017 | 01/13/2017 | ISM02.2_CN |



## Report of Analysis

|                   |          |                 |                        |
|-------------------|----------|-----------------|------------------------|
| Client:           |          | Date Collected: | 12/14/2016 12:00:00 AM |
| Project:          | LB85339  | Date Received:  | 1/11/2017 12:00:00 AM  |
| Client Sample ID: | ME5BL4   | SDG No.:        | LB85339                |
| Lab Sample ID:    | I1129-20 | Matrix:         | Solid                  |
| Level (low/med):  | low      | % Solid:        | 99.7                   |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. |
|-----|-----------|-------|------|----|-----|-----|------------|-------|-----------|-----------|----------|
|-----|-----------|-------|------|----|-----|-----|------------|-------|-----------|-----------|----------|

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N = Spiked sample recovery not within control limits



**Metals**

**- 2a -**

**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

**Client:** LB85339

**SDG No.:** LB85339

**Contract:**                      **Lab Code:** CHEM

**Case No.:** LB85339 **SAS No.:** LB85339

**Initial Calibration Source:**                                     

**Continuing Calibration Source:**                                     

---

| Sample ID | Analyte | Result | True Value | % Recovery | % RSD | Acceptance Window (%R) | M  | Analysis Date | Analysis Time | Run Number |
|-----------|---------|--------|------------|------------|-------|------------------------|----|---------------|---------------|------------|
|           |         | ug/L   |            |            |       |                        |    |               |               |            |
| ICV       | Cyanide | 96.2   | 99         | 97         | 0     | 85 - 115               | CN | 01/13/2017    | 10:50         | LB85339    |

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**Metals****- 2a -****INITIAL AND CONTINUING CALIBRATION VERIFICATION****Client:** LB85339**SDG No.:** LB85339**Contract:** \_\_\_\_\_ **Lab Code:** CHEM**Case No.:** LB85339**SAS No.:** LB85339**Initial Calibration Source:** \_\_\_\_\_**Continuing Calibration Source:** \_\_\_\_\_

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| Sample ID | Analyte | Result<br>ug/L | True Value | %<br>Recovery | %<br>RSD | Acceptance<br>Window (%R) | M  | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|---------|----------------|------------|---------------|----------|---------------------------|----|------------------|------------------|---------------|
| CCV001    | Cyanide | 234            | 250        | 94            | 0        | 85 - 115                  | CN | 01/13/2017       | 10:50            | LB85339       |
| CCV002    | Cyanide | 243            | 250        | 97            | 0        | 85 - 115                  | CN | 01/13/2017       | 11:26            | LB85339       |

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**Metals**

**- 3a -**

**INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY**

**Client:** LB85339 **SDG No.:** LB85339  
**Contract:**                      **Lab Code:** CHEM **Case No.:** LB85339 **SAS No.:** LB85339

| Sample ID | Analyte | Result<br>ug/L | Acceptance<br>Limit | Conc<br>Qual | LOD | CRQL | M  | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|---------|----------------|---------------------|--------------|-----|------|----|------------------|------------------|---------------|
| ICB       | Cyanide | 1.6            | +/-10.0             | J            | 5.0 | 10.0 | CN | 01/13/2017       | 10:50            | LB85339       |



## Metals

- 3a -

### INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** LB85339

SDG No.: LB85339

**Contract:**

Lab Code: CHEM

**Case No.:** LB85339

**SAS No.:** LB85339

| Sample ID | Analyte | Result<br>ug/L | Acceptance<br>Limit | Conc<br>Qual | LOD | CRQL | M  | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|---------|----------------|---------------------|--------------|-----|------|----|------------------|------------------|---------------|
| CCB001    | Cyanide | 1.7            | +/-10.0             | J            | 5.0 | 10.0 | CN | 01/13/2017       | 10:50            | LB85339       |
| CCB002    | Cyanide | 1.6            | +/-10.0             | J            | 5.0 | 10.0 | CN | 01/13/2017       | 11:49            | LB85339       |



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB85339

SDG No.: LB85339

Contract: Lab Code: CHEM

Case No.: LB85339

SAS No.: LB85339

| Sample ID | Analyte | Result<br>ug/L | Acceptance<br>Limit | Conc<br>Qual | LOD | CRQL | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|---------|----------------|---------------------|--------------|-----|------|---|------------------|------------------|---------------|
|-----------|---------|----------------|---------------------|--------------|-----|------|---|------------------|------------------|---------------|



Metals  
- 3b -  
PREPARATION BLANK SUMMARY

Client: LB85339

SDG No.: LB85339

Instrument: CN

| Sample ID | Analyte | Result<br>(mg/kg) | Acceptance<br>Limit | Conc<br>Qual  | LOD<br>mg/kg | CRQL<br>mg/kg | M  | Analysis<br>Date | Analysis<br>Time | Run     |
|-----------|---------|-------------------|---------------------|---------------|--------------|---------------|----|------------------|------------------|---------|
| PB95946BL |         | SOLID             |                     | Batch Number: |              | PB95946       |    | Prep Date:       | 01/12/2017       |         |
|           | Cyanide | 0.07              | <0.5                | J             | 0.012        | 0.5           | CN | 01/13/2017       | 10:50            | LB85339 |



metals  
- 5a -  
MATRIX SPIKE SUMMARY

client: LB85339 level: low sdg no.: LB85339  
contract: lab code: CHEM case no.: LB85339 sas no.: LB85339  
matrix: Solid sample id: I1129-20 client id: ME5BL4S  
Percent Solids for Sample: 99.7 Spiked ID: I1129-22 Percent Solids for Spike Sample: 99.7

| Analyte | Units | Acceptance<br>Limit %R | Spiked<br>Result | C | Sample<br>Result | C | Spike<br>Added | %<br>Recovery | Qual | M  |
|---------|-------|------------------------|------------------|---|------------------|---|----------------|---------------|------|----|
| Cyanide | mg/kg | 75 - 125               | 4.6              |   | 0.15             | J | 5              | 89            |      | CN |

# Metals

- 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** LB85339      **Level:** LOW      **SDG No.:** LB85339  
**Contract:**                           **Lab Code:** CHEM      **Case No.:** LB85339      **SAS No.:** LB85339  
**Matrix:** Solid      **Sample ID:** I1129-20      **Client ID:** ME5BL4D  
**Percent Solids for Sample:** 99.7      **Duplicate ID** I1129-21      **Percent Solids for Spike Sample:** 99.7

| Analyte | Units | Acceptance<br>Limit | Sample<br>Result | C | Duplicate<br>Result | C | RPD | Qual | M  |
|---------|-------|---------------------|------------------|---|---------------------|---|-----|------|----|
| Cyanide | mg/kg | 20                  | 0.15             | J | 0.14                | J | 7   |      | CN |

**Metals  
- 13 -**

**SAMPLE PREPARATION SUMMARY**

|                               |                                 |                                |
|-------------------------------|---------------------------------|--------------------------------|
| <b>Client:</b> <u>LB85339</u> | <b>SDG No.:</b> <u>LB85339</u>  |                                |
| <b>Contract:</b> _____        | <b>Lab Code:</b> <u>CHEM</u>    | <b>Method:</b> _____           |
|                               | <b>Case No.:</b> <u>LB85339</u> | <b>SAS No.:</b> <u>LB85339</u> |

| Sample ID                    | Client ID | Sample Type | Matrix | Prep Date  | Initial Sample Size(g) | Final Sample Volume (mL) | Percent Solids |
|------------------------------|-----------|-------------|--------|------------|------------------------|--------------------------|----------------|
| <b>Batch Number: PB95946</b> |           |             |        |            |                        |                          |                |
| PB95946BL                    | PBS006    | MB          | SOLID  | 01/13/2017 | 1.01                   | 50.0                     | 100.00         |
| I1129-01                     | ME5BJ5    | SAM         | SOLID  | 01/13/2017 | 1.03                   | 50.0                     | 95.10          |
| I1129-02                     | ME5BJ6    | SAM         | SOLID  | 01/13/2017 | 1.03                   | 50.0                     | 99.20          |
| I1129-03                     | ME5BJ7    | SAM         | SOLID  | 01/13/2017 | 1.04                   | 50.0                     | 99.30          |
| I1129-04                     | ME5BJ8    | SAM         | SOLID  | 01/13/2017 | 1.02                   | 50.0                     | 98.00          |
| I1129-06                     | ME5BK0    | SAM         | SOLID  | 01/13/2017 | 1.05                   | 50.0                     | 91.10          |
| I1129-07                     | ME5BK1    | SAM         | SOLID  | 01/13/2017 | 1.02                   | 50.0                     | 96.00          |
| I1129-09                     | ME5BK3    | SAM         | SOLID  | 01/13/2017 | 1.03                   | 50.0                     | 99.20          |
| I1129-10                     | ME5BK4    | SAM         | SOLID  | 01/13/2017 | 1.01                   | 50.0                     | 97.00          |
| I1129-11                     | ME5BK5    | SAM         | SOLID  | 01/13/2017 | 1.02                   | 50.0                     | 84.60          |
| I1129-12                     | ME5BK6    | SAM         | SOLID  | 01/13/2017 | 1.04                   | 50.0                     | 99.60          |
| I1129-15                     | ME5BK9    | SAM         | SOLID  | 01/13/2017 | 1.02                   | 50.0                     | 68.00          |
| I1129-16                     | ME5BL0    | SAM         | SOLID  | 01/13/2017 | 1.01                   | 50.0                     | 98.30          |
| I1129-17                     | ME5BL1    | SAM         | SOLID  | 01/13/2017 | 1.00                   | 50.0                     | 91.00          |
| I1129-18                     | ME5BL2    | SAM         | SOLID  | 01/13/2017 | 1.04                   | 50.0                     | 99.60          |
| I1129-19                     | ME5BL3    | SAM         | SOLID  | 01/13/2017 | 1.05                   | 50.0                     | 99.50          |
| I1129-20                     | ME5BL4    | SAM         | SOLID  | 01/13/2017 | 1.03                   | 50.0                     | 99.70          |
| I1129-21                     | ME5BL4D   | DUP         | SOLID  | 01/13/2017 | 1.02                   | 50.0                     | 99.70          |
| I1129-22                     | ME5BL4S   | MS          | SOLID  | 01/13/2017 | 1.01                   | 50.0                     | 99.70          |
| I1129-05                     | ME5BJ9    | SAM         | SOLID  | 01/13/2017 | 1.00                   | 50.0                     | 99.20          |
| I1129-08                     | ME5BK2    | SAM         | SOLID  | 01/13/2017 | 1.04                   | 50.0                     | 99.30          |
| I1129-13                     | ME5BK7    | SAM         | SOLID  | 01/13/2017 | 1.01                   | 50.0                     | 99.50          |
| I1129-14                     | ME5BK8    | SAM         | SOLID  | 01/13/2017 | 1.03                   | 50.0                     | 97.50          |

FORM 15-IN  
INITIAL CALIBRATION

Lab Name: LB85339 Contract: \_\_\_\_\_  
Lab Code: CHEM Case No.: LB85339 MA No.: \_\_\_\_\_ SDG No.: LB85339  
Instrument ID: CN Start Date: 01/13/2017  
Analytical Method: \_\_\_\_\_ Run Batch: LB85339.mdb  
Concentration Units: ug/L

| Analyte | True | Found | %D | True | Found | %D | True | Found | %D |
|---------|------|-------|----|------|-------|----|------|-------|----|
| Cyanide | 0    | 1.1   | 0  | 5    | 5.8   | 16 | 10   | 11.1  | 11 |

FORM 15-IN  
INITIAL CALIBRATION

Lab Name: LB85339 Contract: \_\_\_\_\_  
Lab Code: CHEM Case No.: LB85339 MA No.: \_\_\_\_\_ SDG No.: LB85339  
Instrument ID: CN Start Date: 01/13/2017  
Analytical Method: \_\_\_\_\_ Run Batch: LB85339.mdb  
Concentration Units: ug/L

| Analyte | True | Found | %D | True | Found | %D | True | Found | %D |
|---------|------|-------|----|------|-------|----|------|-------|----|
| Cyanide | 100  | 99.6  | 0  | 250  | 245   | -2 | 500  | 503   | 1  |