**Weekly Work Log**

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| **[21/01/2019]-[28/01/2019]** | **Name:** | **Jeremy Hepker** |

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| **Task Description** | **Day** | **Hours** | **NOTE** | **SUPERVISOR NOTE** | |
| Revision and integration of readme and usage. | Sunday | 1 | Very rough drafts |  |  |
| Began work on Analytic mode user interface. | Monday | 2 | --Discuss input with supervisors-- |  |  |
| Prepared Github and logs for team | Tuesday | .5 | --Ask supervisors accessibility to github-- |  |  |
| Began working on First Order Kinetics model function – preliminary readings | Tuesday | 1 | N/A |  |  |
| Implement First Order Kinetic algorithm | Thursday | 6 | Originally implemented a version of the “CLEAN” algorithm partnered with a vector operation method. Method proved Inefficient and inaccurate. Back tracked and implemented “CLEAN” with Harvey model.   * Research Threasholds * Split curve into LT and HT |  |  |
| Reorganize Program for new algorithm/model | Saturday | 2 | Switch from a mode divided layout to a model divided layout to minimize storage. |  |  |
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| **Task List (obstacles & solutions)** |
| Complete initial first order kinetics model function for testing with TLD-100 in analytic mode. |
| Begin developing database of known materials, peaks, and temperature thresholds. |
| Revisit user input system – fix input requirement and error handling. |
| Begin testing first order kinetic model for more challenging materials, i.e. TLD-200. |
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