

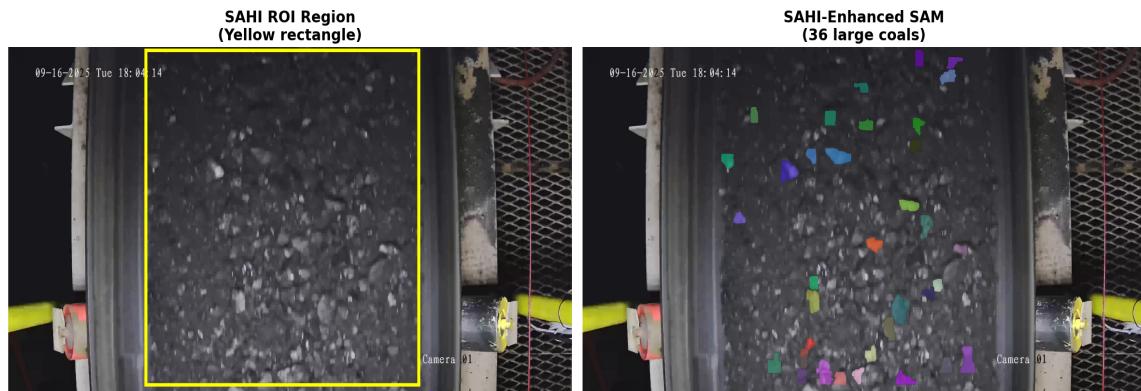
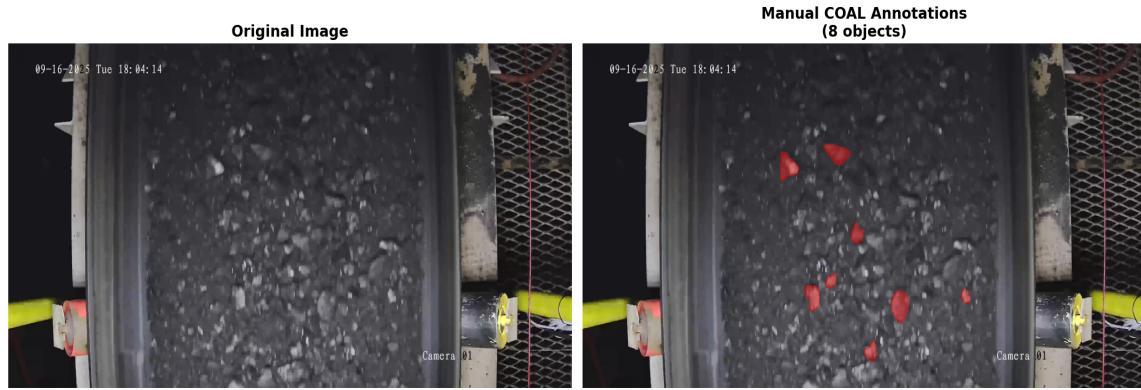
SAM Enhanced Comparison Report - 18_5

IOU Summary Statistics

| Metric | Value | Definition |
|------------------------------|-------|--|
| Total Images Processed | 3 | Number of images with valid IOU calculations |
| Mean IOU | 0.566 | Average Intersection over Union across all images |
| Max IOU | 0.748 | Highest IOU value achieved in any single match |
| Avg Manual Objects per Image | 5.0 | Average number of manually annotated COAL objects per image |
| Avg SAM Objects per Image | 34.0 | Average number of SAM-detected objects per image |
| Total Manual Objects | 15 | Total count of manually annotated COAL objects across all images |
| Total SAM Objects | 102 | Total count of SAM-detected objects across all images |
| Matched Manual Objects | 11 | Number of manual objects that have IOU > 0.5 with SAM objects |
| Matched SAM Objects | 11 | Number of SAM objects that have IOU > 0.5 with manual objects |
| Manual Match Rate | 73.3% | Percentage of manual objects successfully matched by SAM |
| SAM Match Rate | 10.8% | Percentage of SAM objects that match manual annotations |

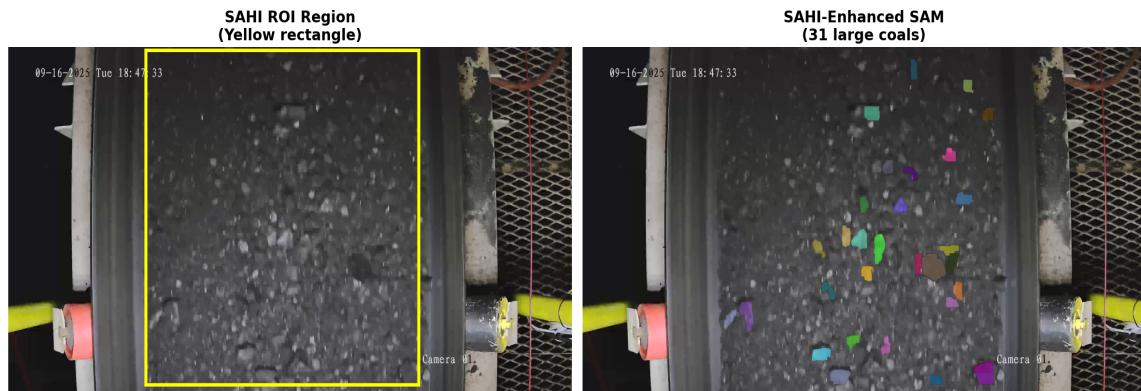
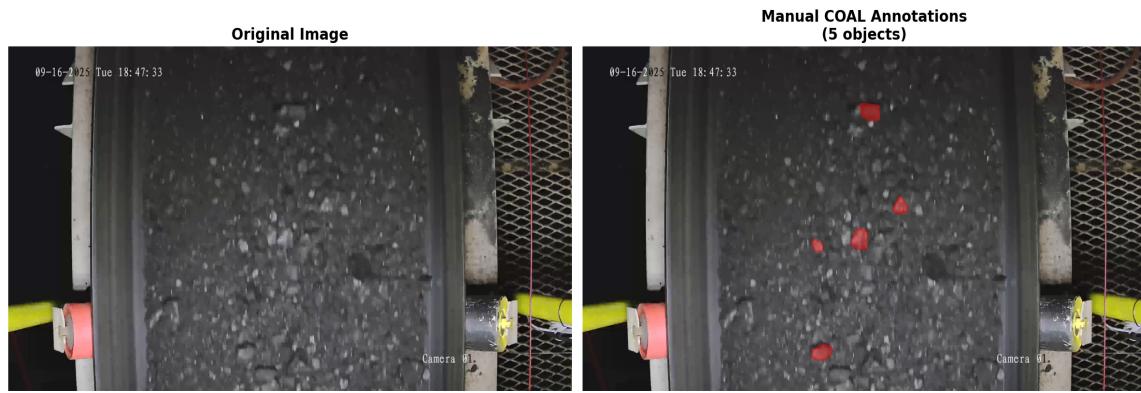
Detailed Results by Image

Image: D2_20250916180414_20250916182733_frame_0000



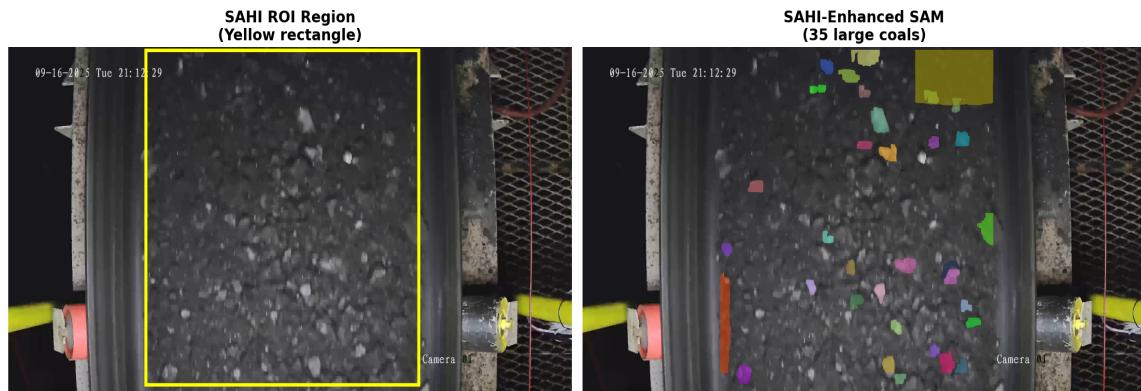
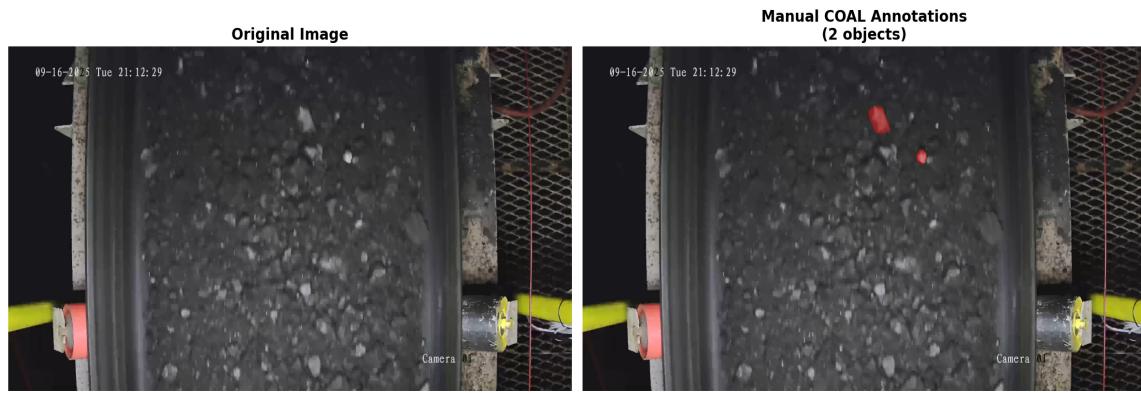
| Metric | Value |
|----------------|-------|
| Mean IOU | 0.512 |
| Max IOU | 0.861 |
| Manual Objects | 8 |
| SAM Objects | 36 |
| Matched Manual | 5 |
| Matched SAM | 5 |

Image: D2_20250916182733_20250916184749_frame_0004



| Metric | Value |
|----------------|-------|
| Mean IOU | 0.748 |
| Max IOU | 0.848 |
| Manual Objects | 5 |
| SAM Objects | 31 |
| Matched Manual | 5 |
| Matched SAM | 5 |

Image: D2_20250916205228_20250916211339_frame_0004



| Metric | Value |
|----------------|-------|
| Mean IOU | 0.437 |
| Max IOU | 0.873 |
| Manual Objects | 2 |
| SAM Objects | 35 |
| Matched Manual | 1 |
| Matched SAM | 1 |