

**Appendix C
Monitoring**

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Minerals and Geology Monitoring

Program: Minerals and Geology

Activity, Practice, or Effect: Project monitoring and minerals administration.

Project Name: Golden Hand No. 1 and No. 2 Lode Mining Claims Project

Location: Sec 26, T22N, R9E Boise Meridian

Objectives: Ensure compliance with approved plan of operations

Monitoring Type: Compliance

Parameters:

- Any material non-compliance documented. If resolved in field without written Notice of Non-compliance, provide written documentation of issue, resolution, and photographs (if applicable) for approval of FS authorized officer
- Provide daily documentation of work progress, effects, visitor conflicts

Methodology:

- Site visits
- Photo log
- Video documentation
- Report copies to District Ranger, Wilderness Program Manager, AIMMCO authorized representative

Frequency/Duration: Daily, life of project

Data storage: Forest Minerals files

Analysis: Interdisciplinary (Wilderness, Soil and Water, Fisheries, Planning)

Report: Monthly summary; Annual, after seasonal closeout

Cost: \$12,000/year

Personnel: Forest Minerals and Wilderness personnel

Responsible Individual: Minerals & Geology Program Manager

Responsible Official: Krassel District Ranger

Prepared by: Jim Egnew, Minerals & Geology Program Manager **Date:** 02/28/2012

Water Quality Monitoring

Program: Minerals Administration/Soil and Water

Activity, Practice, or Effect: Project monitoring, Minerals management. Implementation Monitoring of Mining BMP's, and project PDFs.

Project Name: Golden Hand No. 1 and No. 2 Lode Mining Claims Project

Locations: Smith Creek and Coin Creek subwatersheds. Drill pad, trenching, and Ella adit. Forest Roads 371, 373 and Forest Trail 013.

Objectives: Determine if site-specific BMPs and PDFs identified are being implemented. Provide qualitative assessment of effectiveness.

Monitoring Type: Compliance

Parameters: Various, depending on activity being monitored.

Methodology: The parameters will be observed ocularly. The project hydrologist and minerals administrator will review the BMP's and PDFs, develop a checklist of pertinent BMP's and PDFs, and review the implementation on the ground. Monitoring would include direction in the Payette National Forest Travel Management Plan Biological Opinion concerning the need to visually observe sediment travel distances from fording.

Frequency/Duration: When on-site, during mineral administrator visits.

Data storage: All data will be presented and summarized in a seasonal monitoring report summary stored in hard files and in the 2550 Soil Management files.

Analysis: Field forms and photographs will be analyzed to answer the following questions:

1. Which of the BMP's and PDFs were implemented?
2. Which of the BMP's and PDFs appear to be effective at this time?
3. Which of the BMP's and PDFs need to be improved?

Report: All data will be reported yearly on the monitoring summary results table for the Payette Forest. Written reports will be retained on the Krassel Ranger District.

Cost: \$2,000.00/year

Personnel: Forest Minerals and Wilderness personnel

Responsible Individual: Minerals & Geology Program Manager

Responsible Official: Krassel District Ranger

Prepared by: Jim Fitzgerald, Krassel/McCall Hydrologist

Date: 03/21/2011

Wilderness Monitoring (Access)

Program: Wilderness/Recreation/Trails

Activity, Practice, or Effect: Visitor Use monitoring and compliance check

Project Name: Golden Hand No. 1 and No. 2 Lode Mining Claims Project

Locations: FC-RONR Wilderness on Trail #013

Objectives: Gather visitor use data and check for compliance regarding motorized and mechanized use

Monitoring Type: Camera

Parameters: Number of visitors entering and number of vehicles

Methodology: Camera

Frequency/Duration: Each season over the life of the project

Data storage: Krassel Ranger District files

Analysis: Change in amount of visitor use and unauthorized motorized /mechanized use

Report: Krassel District Visitor Use Data

Cost: \$2500 for camera system and \$1,000/year to monitor

Personnel: Forest Minerals and Wilderness personnel

Responsible Individual: Minerals & Geology Program Manager

Responsible Official: Krassel District Ranger

Prepared by: Clem Pope, Recreation and Wilderness Specialist

Date: 02/28/2012

Wilderness Monitoring (Social Impacts)

Program: Wilderness/Recreation/Trails

Activity, Practice, or Effect: Social impact monitoring

Project Name: Golden Hand No. 1 and No. 2 Lode Mining Claims Project

Location: Along Mosquito Ridge, Cow Corrals, Crane Meadows and/or Ramey Ridge

Objectives: Monitor the impacts of operations on wilderness experience by sight and sound.

Monitoring Type: On site travel

Parameters: Sights and sounds of impacts along ridges surrounding the Golden Hand

Methodology: Make observations of the effects of the visual and audible impacts while hiking along ridges surrounding project area.

Frequency/Duration: 1 trip per season for the duration of the project

Data storage: District files

Analysis: Effect to Wilderness user's experience

Report: Wilderness Impact Monitoring

Cost: \$500/year

Personnel: Forest Minerals and Wilderness personnel

Responsible Individual: Minerals & Geology Program Manager

Responsible Official: Krassel District Ranger

Prepared by: Clem Pope, Recreation and Wilderness Specialist

Date: 02/28/2012