

# Bayhorse Townsite State Park

Reuse of an Abandoned Mine Site

A Brownfields Approach

## Project Overview

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TerraGraphics Environmental  
Engineering, Inc.

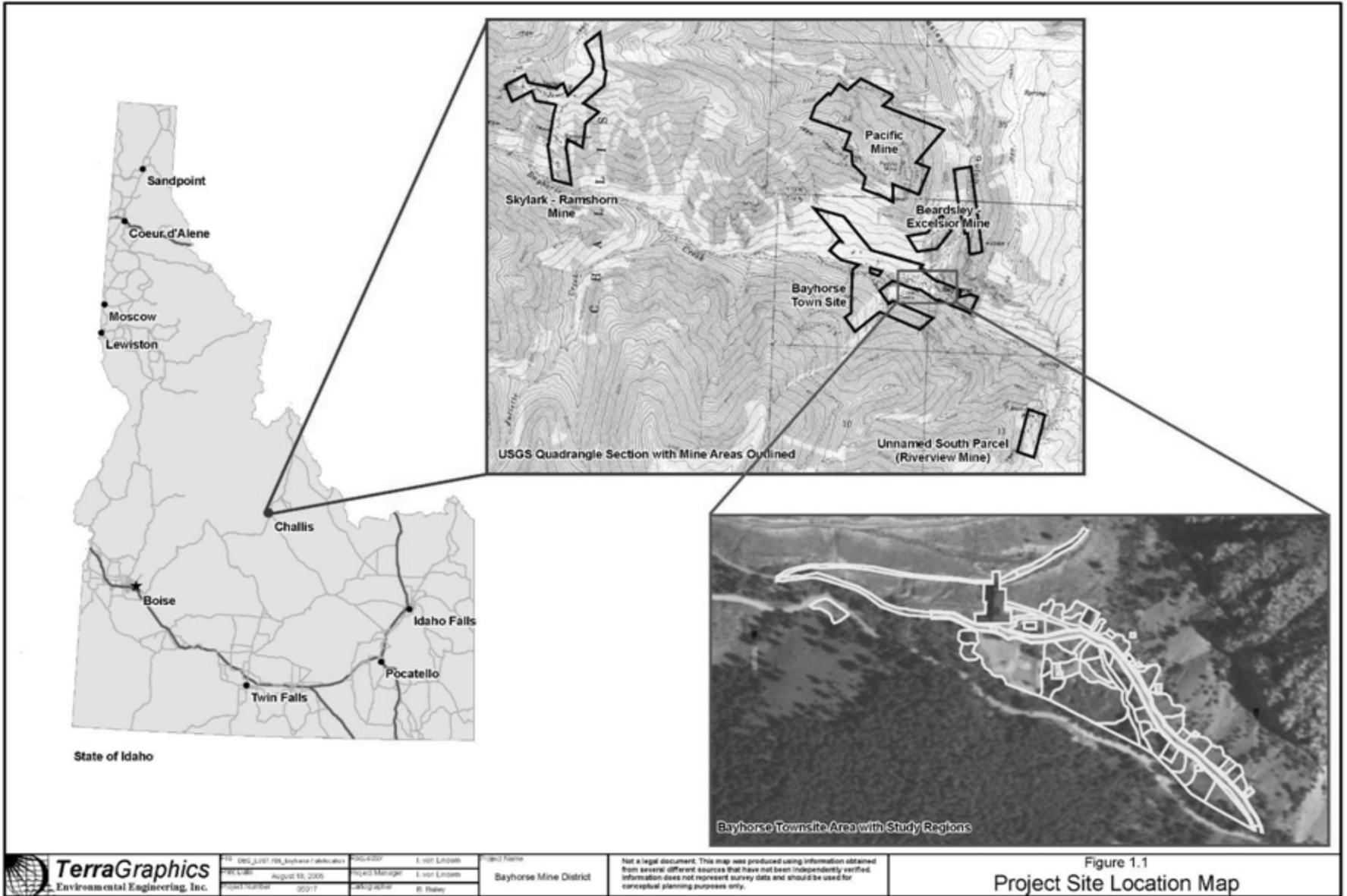


Figure 1.1  
Project Site Location Map



**DANGER**

**NO ADMITTANCE**

Bayhorse Unit  
Land of the Yankee Fork State Park

This area is closed due to the presence of potentially hazardous mine wastes.

*Please do not enter this area.*

If you have any questions regarding Bayhorse please call:  
(208) 879-5244.

*Thank you for your cooperation.*



A handwritten signature in cursive script that reads "Dan B. Smith".



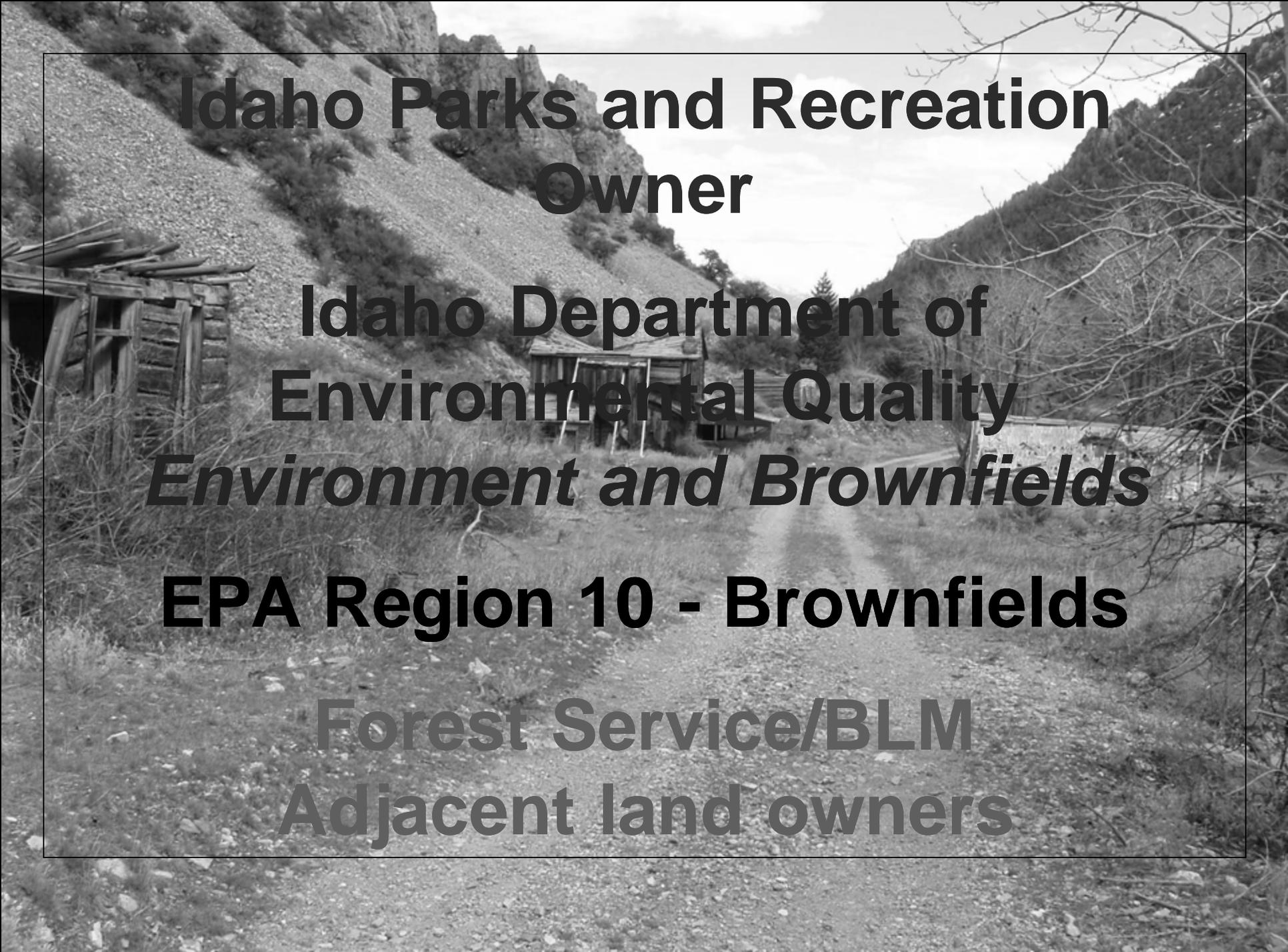
Dan B. Smith - Park Manager



# *Idaho Parks & Recreation Department Vision*

**Develop Bayhorse Mining District  
into a recreational use area**

**Stabilize Bayhorse Townsite and  
mining trails for public use**

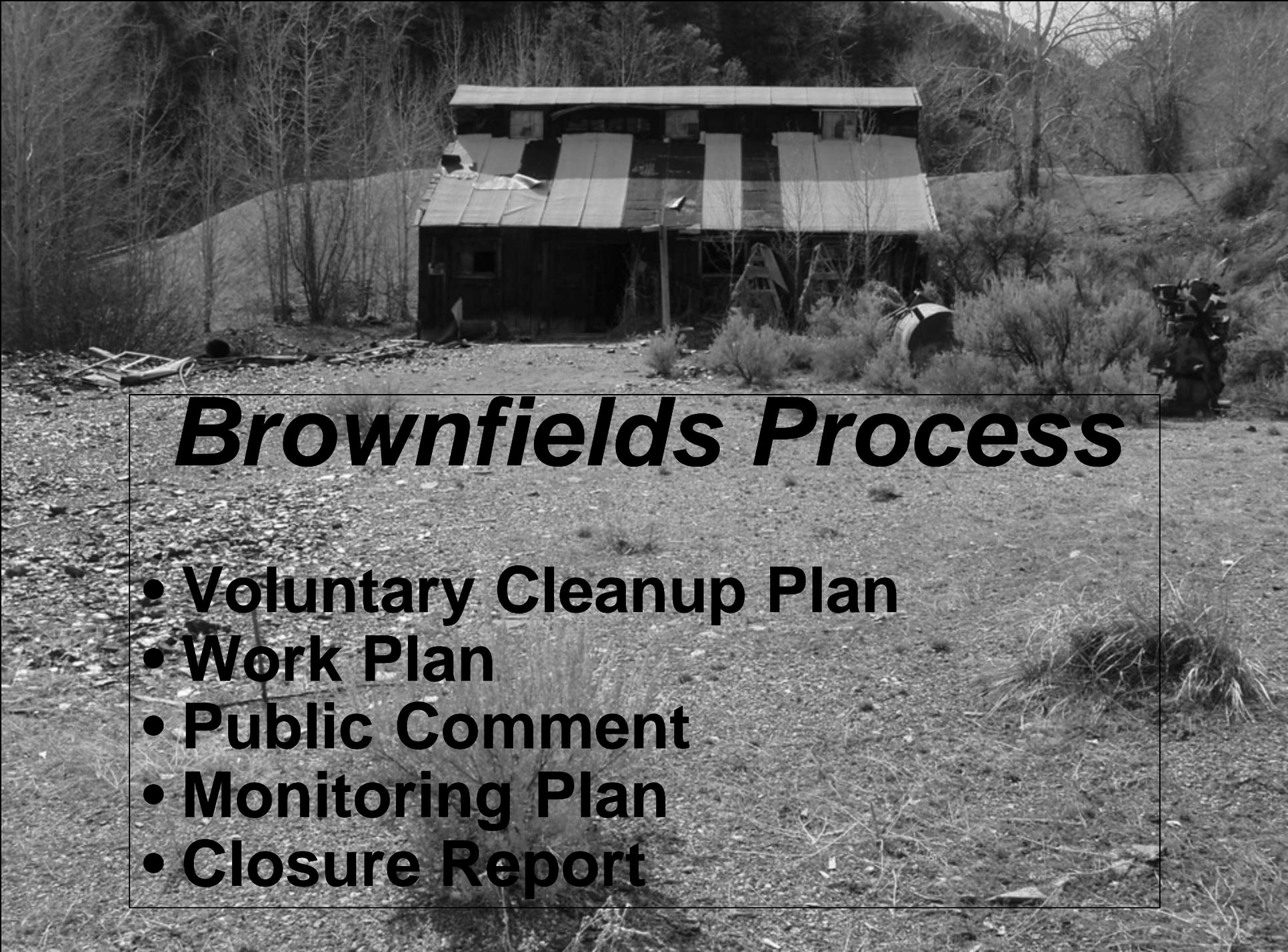


**Idaho Parks and Recreation  
Owner**

**Idaho Department of  
Environmental Quality  
*Environment and Brownfields***

**EPA Region 10 - Brownfields**

**Forest Service/BLM  
Adjacent land owners**



# ***Brownfields Process***

- **Voluntary Cleanup Plan**
- **Work Plan**
- **Public Comment**
- **Monitoring Plan**
- **Closure Report**

# *Funding*

**Three Brownfields Grants - \$200,000 each**  
**State Funding - \$500,000**

**Important Factors –**

- 1. Believable recovery and use**
- 2. State/EPA behind to project**
- 3. Upfront Brownfields soliciting**
- 4. Creditable technical approach**
- 5. Part of larger vision**

# ***VCP Components***

- **Human Health Risk Assessment**
- **Biological Assessment**
- **Material Control Strategy**
- **Bayhorse Creek Protection**
- **Cultural Resources Assessment**

# ***Risk Management Plan***

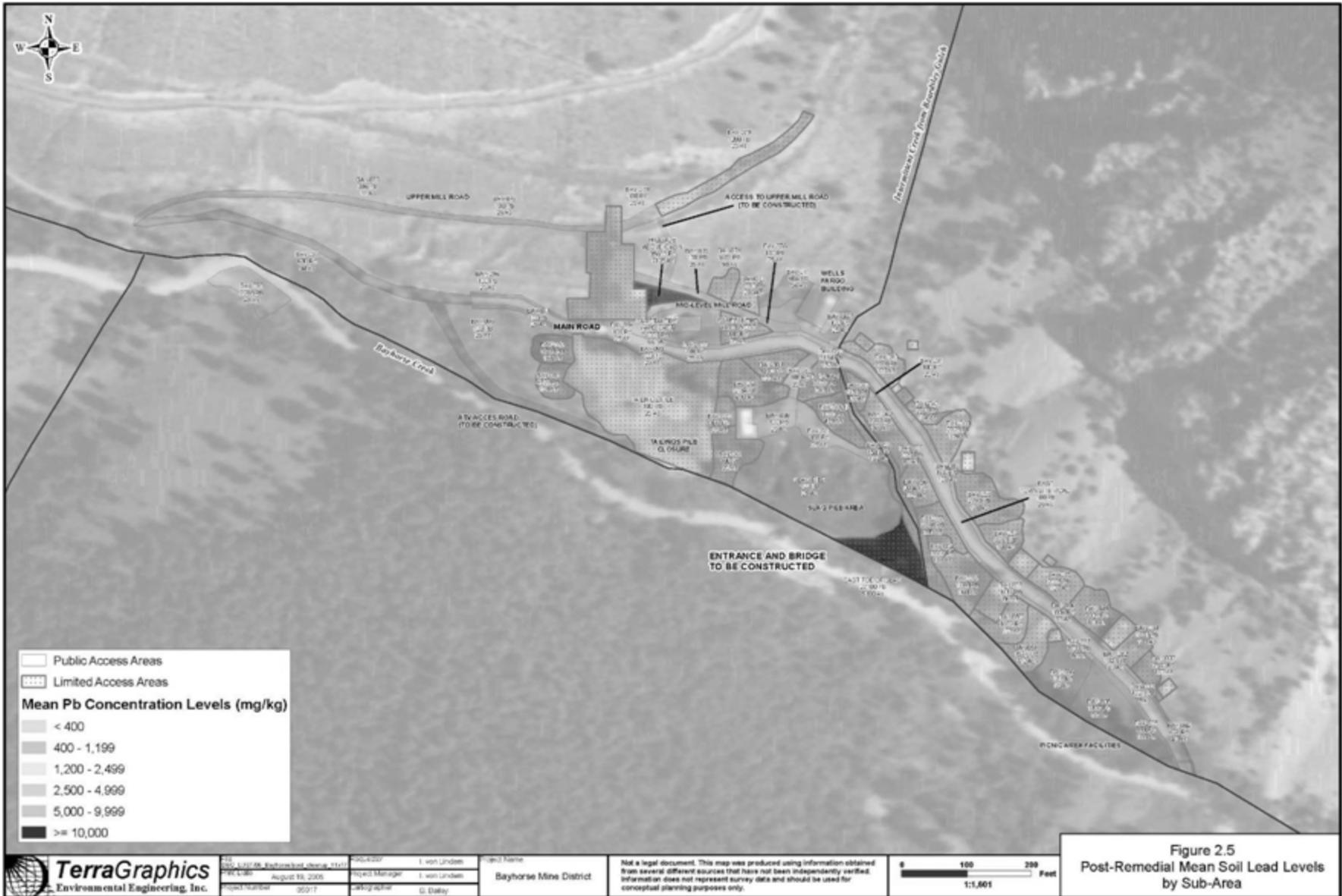
- **Site Characterization**
- **Human Health Risk Assessment**
- **Strategy for Recreational Use**







**Figure 2.4**  
Mean Surface Soil Lead Levels  
By Sub-Area





# ***Work Plan and Design Components***

- **Bayhorse Creek stabilization**
- **Tailings Pile regrade and cover**
- **Slag Pile disposal site and cover**
- **Bridge – Vehicle and ATV**
- **Trail system remediation-  
barriers, fences**
- **Local drainage**









***Many historic buildings and features  
throughout the town site***





# ***VCP and Work Plan/ Design Approach***

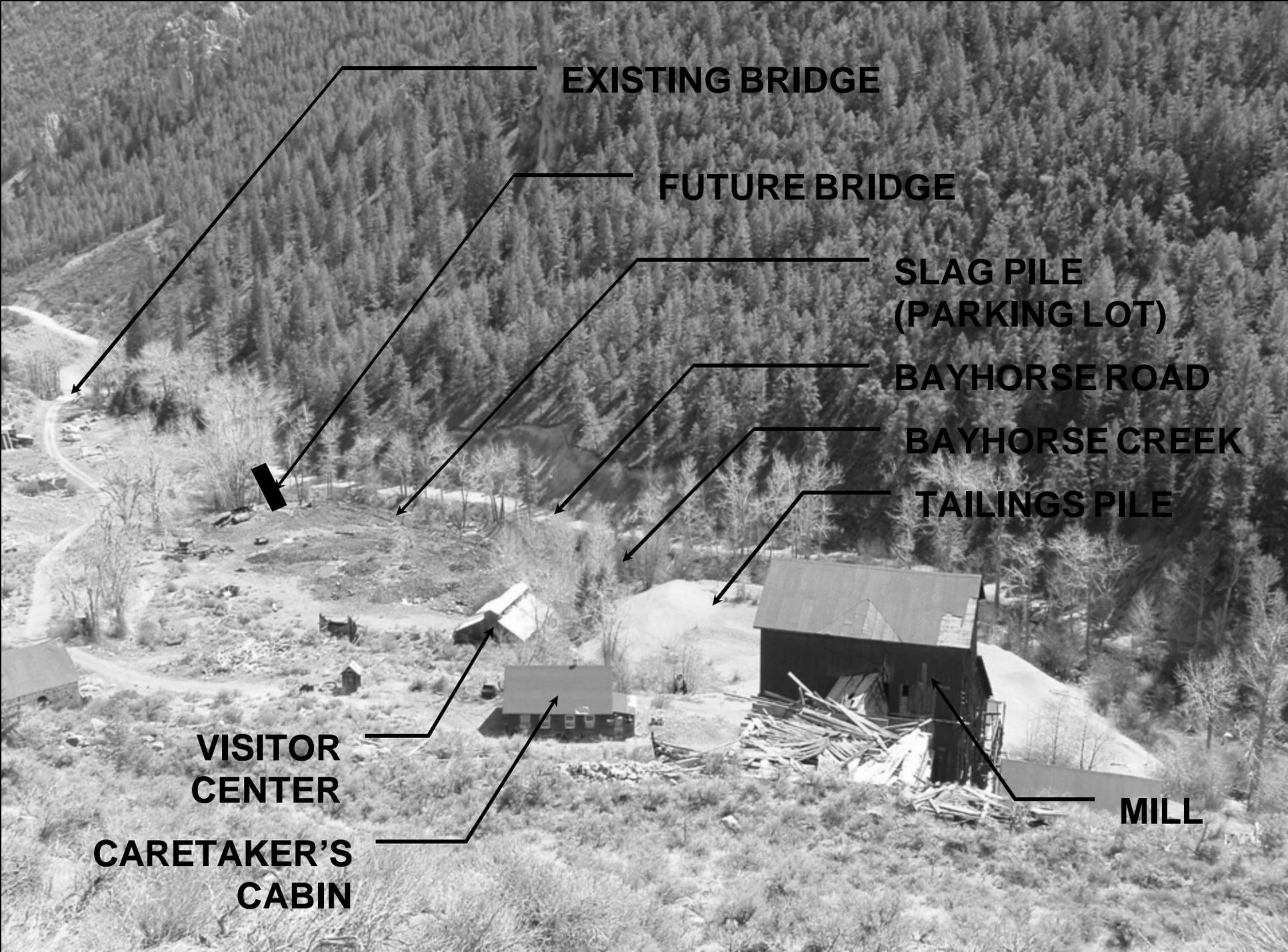
- ✓ **Tailings Pile: Grade and E.T. Cover System**
- ✓ **Slag Pile: Asphalt Cover and Drain System**
- ✓ **Trail System: Soil/Gravel Barriers & Fencing**
- ✓ **Control Access**
- ✓ **Control Dust**
- ✓ **Control Water/Sediment Discharges**
- ✓ **Control Human Contact**

**EXISTING TAILINGS  
PILE ALONG  
BAYHORSE CREEK  
EXIST GRADE 1:1  
NEW GRADE 3:1**



**EXISTING SLAG  
PILE ALONG  
BAYHORSE  
CREEK  
EXIST GRADE 1:1  
NEW GRADE 2:1**





**EXISTING BRIDGE**

**FUTURE BRIDGE**

**SLAG PILE  
(PARKING LOT)**

**BAYHORSE ROAD**

**BAYHORSE CREEK**

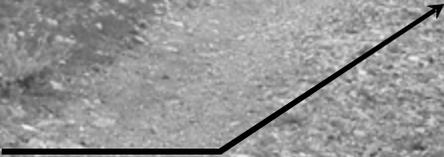
**TAILINGS PILE**

**VISITOR  
CENTER**

**CARETAKER'S  
CABIN**

**MILL**

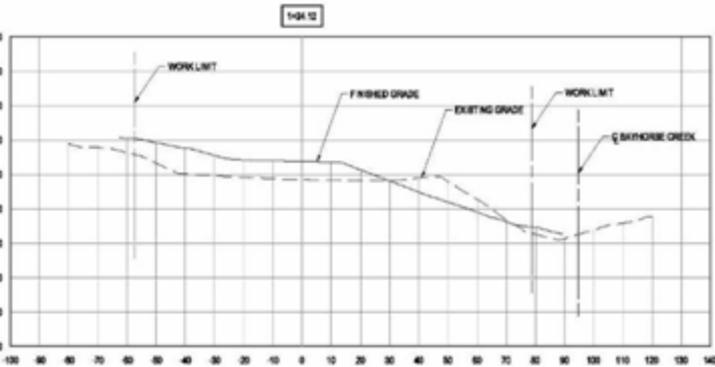
**EXISTING  
ROAD/TRAIL  
ON THE TOWNSITE**



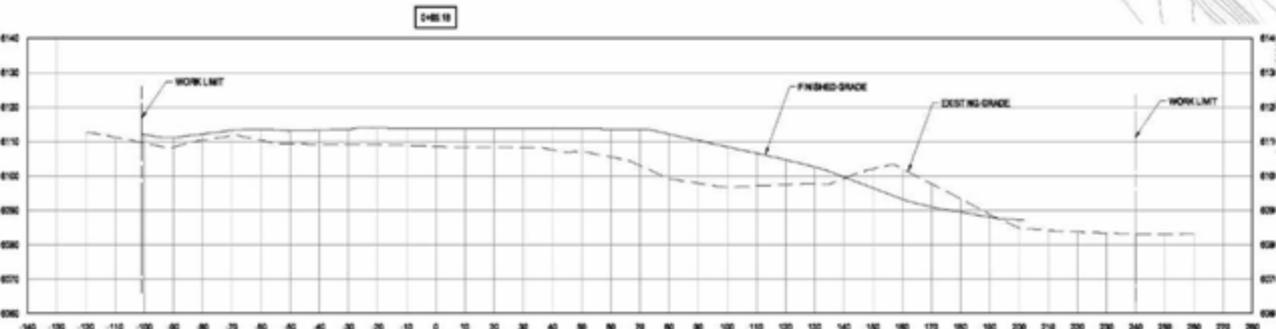


**COVER REFERENCE POINT TABLE**

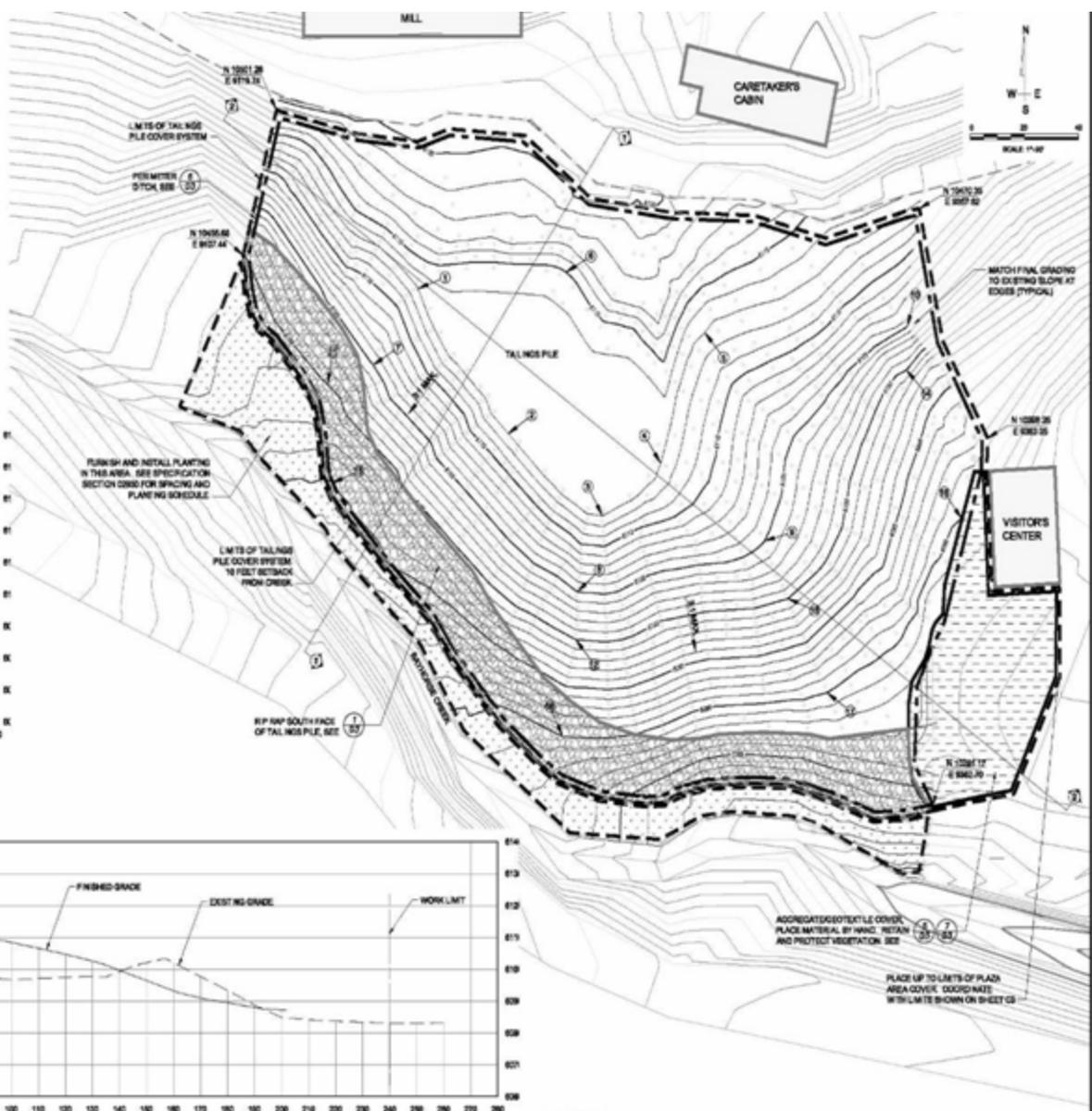
POINT	NORTHING	EASTING	ELEVATION
1	10440.02	9713.26	8113
2	10389.07	9206.50	8113
3	10373.87	9245.47	8113
4	10390.34	9261.50	8113
5	10421.49	9278.23	8113
6	10430.37	9225.87	8113
7	10421.23	9788.80	8108
8	10395.02	9281.23	8108
9	10388.36	9300.45	8108
10	10433.28	9363.28	8108
11	10415.05	9738.70	8100
12	10388.04	9330.94	8100
13	10247.81	8308.13	8100
14	10419.03	9362.36	8100
15	10384.15	9742.48	8086
16	10304.53	9225.72	8080
17	10218.31	8223.38	8080
18	10272.85	8373.36	8080



SECTION 1404 12



SECTION 1405 18



GENERAL NOTE:  
 1. CONTRACTOR TO FIELD VERIFY ALL ELEVATIONS, REFERENCE POINTS, SITE FEATURES AND DIMENSIONS.

NO.	DATE	REVISIONS	BY	CHK
1		REVISED PER ADDENDUM 1		

DRAWN: T. JONES ENGINEER: D. FORSETH CHECKED: T. BOURQUE DATE: 07/02/07	PROJECT NO: 06203 SCALE: AS NOTED APPROVED: [Signature] DATE:	TerraGraphics Environmental Engineering, Inc.	STATE OF IDAHO PARKS AND RECREATION	T. JONES 12175 STATE ENGINEER
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BAYHORSE TOWNSITE STATE PARK PHASE I PROJECT NO. 300982	COVER PLAN TAILINGS PILE	SHEET NO. # <b>C4</b> DATE: 08/17/07 SHEET: 7 OF 14
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# Stream Stabilization



# Trail system to control exposure



# U.S. Dept. of Interior Certificate of Merit





Thank You