

# **EXHIBIT “B”**

Southside Gravel, LLC  
Southside Pit  
Mining Operations Plan

July 2018



## Table of Contents

<b>1.0</b>	<b>OVERVIEW .....</b>	<b>1</b>
1.1	Location of Mining Operations .....	1
1.2	Site Access .....	2
1.3	Permits and Bonds.....	2
1.4	Operation Schedule .....	2
1.4.1	Aggregate Crushing and Hauling.....	2
1.4.2	Aggregate Washing.....	3
1.4.3	Aggregate Hauling.....	3
1.4.4	Maintenance and Related Work .....	3
1.4.5	Extended Operations .....	3
<b>2.0</b>	<b>MINING ACTIVITIES .....</b>	<b>4</b>
2.1	Mining Operations.....	4
2.1.1	Public Safety During Operations .....	4
2.2	Excavation Phases.....	4
2.2.1	Phase Boundary Changes.....	4
2.3	Air Quality.....	5
2.4	Noise Control.....	5
2.5	Drainage and Runoff.....	5
<b>3.0</b>	<b>RECLAMATION PLAN.....</b>	<b>6</b>
3.1	Reclamation of Roads, Slopes, Floors and Related Features .....	6
3.1.1	Slopes.....	6
3.1.2	Roads .....	6
3.1.3	Floors .....	6
3.1.4	Related Features.....	6
3.2	Surface Facilities .....	7
3.3	Topsoil Redistribution.....	7
3.4	Revegetation .....	8

# List of Appendices

**APPENDIX A: Southside Pit Maps ..... 10**

- Map 1A – Haul Route Option A
- Map 1B – Haul Route Option A
- Map 2A – Haul Route Option B
- Map 2B – Haul Route Option B
- Map 3A – Haul Route Option C
- Map 3B – Haul Route Option C
- Map 4A – Operation Plan – Mining Phase Overview
- Map 4B – Operation Plan – Mining Phase 1
- Map 4C – Operation Plan – Mining Phase 2
- Map 4D – Operation Plan – Mining Phase 3
- Map 4E – Operation Plan – Mining Phase 4
- Map 4F – Operation Plan – Mining Phase 5
- Map 4G – Operation Plan – Mining Phase 6
- Map 4H – Operation Plan – Mining Phase 7
- Map 5 – Operation Plan – Final Reclamation

## 1.0 Overview

### 1.1 Location of Mining Operations

Southside Pit is located about 12 miles southwest of Tooele, Utah. It is situated in Section 32, Township 4 South, Range 5 West of the Salt Lake Base and Meridian. The site coordinates are approximately 40°25'50.33"N, 112°26'10.63"W. The property is owned by Southside Gravel, LLC and has tax ID numbers 06-023-0-0026 and 06-023-0-0028. The general vicinity of the property is shown in Figure 1 below.



Figure 1. General Location map of the Southside Pit Property.

## **1.2 Site Access**

Haul trucks will access the site via alternate routes. The primary access for gravel operations shall be from the south side of the pit, which connects to Ranch Road. Refer to Maps 2A and 2B for route details. The site will also be accessed via the northwestern entrance connected to Silver Avenue for the purposes of conducting gravel operations. See Maps 1A, 1B, 3A, and 3B for specific roads to follow.

## **1.3 Permits and Bonds**

Southside will adhere to all required governmental regulations and monitoring. A Storm Water Pollution Prevention Plan (SWPPP) and an air quality permit will be approved prior to commencing gravel operations. The permits will be in compliance with all applicable regulatory agencies, and maintained throughout the duration of the applicable term. The reclamation bond amount will be \$2,000.00 per acre for the total disturbed area of 166 acres. After portions of the site have been reclaimed and approved by Tooele County, partial releases of the total bond amount will be granted.

## **1.4 Operation Schedule**

### **1.4.1 Aggregate Crushing**

Equipment used to crush aggregate will take place Monday through Saturday of each regular week during the year. Southside will restrict aggregate crushing equipment use to the hours of 7:00 a.m. to 7:00 p.m. from April 1 to November 30 and the hours of 8:00 pm to 6:00 pm from December 1 to March 31. Operations will not be conducted on Sundays and the following holidays: Thanksgiving, Christmas, and New Year's Day.

### **1.4.2 Aggregate Washing**

The use of aggregate washing equipment will occur Monday through Saturday of each regular week during the year. Southside will restrict aggregate washing to the hours of 6:00 a.m. to 9:00 p.m. Operations will not be conducted on Sundays and the following holidays: Thanksgiving, Christmas, and New Year's Day.

### **1.4.3 Aggregate Hauling**

Hauling aggregate material will occur Monday through Saturday of each regular week during the year. Southside will restrict hauling of aggregate to the hours of 6:00 a.m. to 8:00 p.m from April 1 to November 30 and 8:00 am to 6:00 pm from December 1 to March 31. Trackout control devices such as; cattle guards, pads, plates, or rip rap, will be installed at each exit to eliminate debris onto public paved surfaces. Hauling will not be conducted on Sundays and the following holidays: Thanksgiving, Christmas, and New Year's Day.

### **1.4.4 Maintenance and Related Work**

Other aspects of aggregate operations, such as repair and maintenance, and other related work, will occur Monday through Sunday of each regular week during the year. These activities may take place at any time but reasonable efforts will be made to reduce noise and light by using low impact mobile lighting as needed for any maintenance work.

### **1.4.5 Extended Operations**

The operating schedule will be restricted to the hours listed above except in the case of contractual obligations, wherein a contract with a governmental entity, public agency, or bona fide third party contracting with one of the former requires, as a condition to entering into such contract, that Southside deliver or otherwise provide aggregate products (including hauling and processing) on Sundays, or on one or more of the above referenced holidays in order for Southside to fulfill its obligations under such

contract. Southside may also request approval to modify the hours and days of operation for bona fide emergencies and temporary contractual operations.

## ***2.0 Mining Activities***

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### **2.1 Mining Operations**

Southside mining operations will include excavating, loading, crushing, screening, and the washing of aggregates. Any necessary maintenance, repair, and related work will also be conducted at the site.

#### **2.1.1 Public Safety During Operations**

In the case that hazardous conditions exist during operational and non-operational times, identifying measures such as signs or fences will be erected in order to notify the public. Berms will be placed around unsafe slopes that result from gravel operations. Trackout control devices such as; cattle guards, pads, plates, or rip rap, will be installed at each exit to eliminate debris onto public paved surfaces.

### **2.2 Excavation Phases**

Mining and excavation of the site will occur in seven 25-acre phases, as detailed by Maps 4A through 4H. During the first phase the crusher equipment will be placed on the current elevation of phase one. When phase one is excavated, the crusher will then be moved to the bottom of the pit. Topsoil and overburden material will be stripped, then stockpiled as a berm around the boundary of each phase. During phase one, a berm will be constructed around the crusher area to reduce noise and visual impacts. Upon completion of each phase, the topsoil will be pushed over the slope and used on the floor for reclamation. Any waste or gangue material will be left as a berm around the boundary of the site for safety and visual reasons. While mining operations are in progress, un-reclaimed slopes will consist of 25

acres and un-reclaimed floor 50 acres. At the discretion of Southside, additional acreage will be used for stockpiles.

### **2.2.1 Phase Boundary Changes**

Southside may make adjustments to any of the phase boundaries for any reason and at any time. If an adjustment is made, property reclamation will be carried out as described above. If the changes are substantial, an updated operation plan will be submitted to the county.

## **2.3 Air Quality**

Southside will use water trucks to mitigate fugitive dust emissions on all access roads as depicted on Exhibits 1A, 1B, 2A, 2B, 3A and 3B. A liquid magnesium chloride (or similar product) shall be applied when deemed necessary by Southside to increase dust suppression on these access roads.

## **2.4 Noise Control**

Southside will comply with all noise ordinances enforced by Tooele County and other applicable government entities. If necessary, white noise backup alarms will be installed on equipment to minimize sounds produced by gravel operations at the site.

## **2.5 Drainage and Runoff**

The location of the gravel pit infers that water will not leave the site in the event of heavy rainfall. Pits will be designed to contain any materials that may be subjected to erosion due to rainfall. Any erosion will be internal and be deposited into the bottom of the pit.

## ***3.0 Reclamation Plan***

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### **3.1 Reclamation of Slopes, Roads, Floors and Related Features**

#### **3.1.1 Slopes**

All final slopes will be contoured to a 2H:1V grade. The pit surface will be reshaped to approximately align with the original contours. It will also be ripped to a depth of two feet prior to being covered with topsoil and vegetation.

#### **3.1.2 Roads**

Upon completion of mining, any asphalt roads will be ripped out and removed. The asphalt will be hauled to an appropriate location to be recycled. Roads will be re-contoured to approximate original contours of the land. If the land is to be used for other purposes post-reclamation, the roads will remain. Any control devices used for trackout such as; cattle guards, pads, plates, or rip rap, will be ripped out and removed post mining.

#### **3.1.3 Floors**

Once stockpiles are removed from the site, the floors will be restored, regraded, and seeded. The surface will also be ripped to a depth of two feet prior to the placement of topsoil and vegetation.

#### **3.1.4 Related Features**

Impoundments including ponds, check dams, berms, etc. will be reclaimed unless necessary for drainage control or safety reasons. If the water well is not needed for post reclamation use, it will be sealed according to the Division of Water Rights specifications.

### 3.2 Surface Facilities

All surface facilities such as processing equipment, scales, the scale house, water tanks, sheds, trailers, etc. used for mining purposes will be removed from the site. Concrete associated with mining operations will be buried on site.

### 3.3 Topsoil Redistribution

All existing topsoil will be removed and stored in a stable condition, and used for reclamation of disturbed areas. There are three soil types within the boundary and are shown in Table 1. Disturbed areas will be graded to re-establish contours and ripped to a depth of two feet for the preparation of revegetation.

Table 1. Existing Soil Types within Site Boundary.

Soil Unit Name	Acres within Boundary	Map Unit Number
Erda silt loam, 1-5% slopes	4	19
Hiko Peak gravelly loam, 2-15% slopes	20	21
Taylorsflat loam, saline, 0-3% slopes	142	65



Figure 2. Map of site boundary (green) and different soil units (orange) within the property. Numbers correlate with Table 1.

### 3.4 Revegetation

Vegetation capable of surviving typical area rainfall will be planted during reclamation. Disturbed slopes will be restored, regraded and reseeded with species of vegetation that will minimize erosion. Table 2 shows the vegetation type to be used and amount of pure live seed (PLS) per acre. A conventional spreader will be used to broadcast the seed over the topsoil during the fall after completion of each excavation phase. Stockpiles will be stored on Floor areas until final reclamation, and then reseeded.

Table 2. Seed Mix for Reclamation Purposes.

Common Name	Species Name	Rate lbs/ac (PLS)
Western Wheatgrass	<i>Agropyron smithii</i>	2.5
Indian rice grass	<i>Oryzopsis hymenoides</i>	2.0
Bluebunch wheatgrass	<i>Agropyron spicatum</i>	1.5
Palmer penstemon	<i>Penstemon palmeri</i>	0.5
Mountain big sagebrush	<i>Artemisia tridentata vaseyana</i>	0.1
Lewis Flax	<i>Linum lewisii</i>	1.0
Fourwing saltbush	<i>Atriplex canescens</i>	1.5
Forage Kochia	<i>Kochia prostrata</i>	0.25

*Appendix A*  
*Southside Pit Maps*