0043

GENWAL™ RESOURCES, INC.

P.O. Box 1077, Price, Utah 84501 794 North "C" Canyon Rd, East Carbon, Utah 84520
Telephone (435) 888-4000 Fax (435) 888-4002

October 11, 2005

Utah Division of Oil, Gas & Mining
Utah Coal Program
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, Utah 84114-5801

Incoming
C/015/0032

Re: Sediment Pond Amendment, C/015/032, Task # 2291

Dear Sirs:

Enclosed please find seven (7) copies of the response to Technical Memorandum of September 9, 2005 (Task # 2291) regarding surface building bonding and sediment pond maps.

Call me at 435-888-4015, or Dave Shaver at 435-888-4017, if you have any questions.

Sincerely

Dave Shaver
for

Gary E. Gray
Engineer/Agent

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OCT 1 1 2005
DIV. OF OIL, GAS & MINING

Form DOGM - C1 (Last Revised October 10, 2005) File Folder # 3

APPLICATION FOR PERMIT PROCESSING

Permit Change ☐	New Permit ☐	Renewal ☐	Transfer ☐	Exploration ☐	Bond Release ☐	Permit Number: 015/032

Title of Proposal: Change to the MRP to clarify issues regarding the sediment Response to technical memorandum of September 9, 2005 (Task # 2291)

Mine: GENWAL Mine

Permittee: **GENWAL Resources, Inc.**

Description, include reason for application and timing required to implement:.

Instructions: *If you answer yes to any of the first 8 questions (gray), submit the application to the Salt Lake Office. Otherwise, you may submit it to your reclamation specialist.*

☐ Yes	☐ No	1. Change in the size of the Permit Area? _____ acres Disturbed Area? _____ acres ☐ increase ☐ decrease.
☐ Yes	☐ No	2. Is the application submitted as a result of a Division Order?
☐ Yes	☐ No	3. Does application include operations outside a previously identified Cumulative Hydrologic Impact Area?
☐ Yes	☐ No	4. Does application include operations in hydrologic basins other than as currently approved?
☐ Yes	☐ No	5. Does application result from cancellation, reduction or increase of insurance or reclamation bond?
☐ Yes	☐ No	6. Does the application require or include public notice/publication?
☐ Yes	☐ No	7. Does the application require or include ownership, control, right-of-entry, or compliance information?
☐ Yes	☐ No	8. Is proposed activity within 100 feet of a public road or cemetery or 300 feet of an occupied dwelling?
☐ Yes	☐ No	9. Is the application submitted as a result of a Violation?
☐ Yes	☐ No	10. Is the application submitted as a result of other laws or regulations or policies? Explain:
☐ Yes	☐ No	11. Does the application affect the surface landowner or change the post mining land use?
☐ Yes	☐ No	12. Does the application require or include underground design or mine sequence and timing?
☐ Yes	☐ No	13. Does the application require or include collection and reporting of any baseline information?
☐ Yes	☐ No	14. Could the application have any effect on wildlife or vegetation outside the current disturbed area?
☐ Yes	☐ No	15. Does application require or include soil removal, storage or placement?
☐ Yes	☐ No	16. Does the application require or include vegetation monitoring, removal or revegetation activities?
☐ Yes	☐ No	17. Does the application require or include construction, modification, or removal of surface facilities?
☐ Yes	☐ No	18. Does the application require or include water monitoring, sediment or drainage control measures?
☐ Yes	☐ No	19. Does the application require or include certified designs, maps, or calculations?
☐ Yes	☐ No	20. Does the application require or include subsidence control or monitoring?
☐ Yes	☐ No	21. Have reclamation costs for bonding been provided for?
☐ Yes	☐ No	22. Does application involve a perennial stream, a stream buffer zone or discharges to a stream?
☐ Yes	☐ No	23. Does the application affect permits issued by other agencies or permits issued to other entities?

☐ **Attach _3_ complete copies of the application.**

I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments, undertakings and obligations, herein. (R645-301-123)

Signed - Name - Position - Date

for Gary Gray

Subscribed and sworn to before me this 10 day of Oct, 2005

Rada J. Rogers
Notary Public

My Commission Expires: 10/2/06
Attest: STATE OF Utah
COUNTY OF Carbon

RADA J. ROGERS
NOTARY PUBLIC • STATE of UTAH
2150 N. LUNDY LANE
CLEVELAND, UT 84518
COMM. EXPIRES 10-2-2006

Received by Oil, Gas & Mining
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OCT 11 2005
DIV. OF OIL, GAS & MINING

ASSIGNED TRACKING NUMBER

Application **for Permit Processing**
Detailed Schedule of Changes to the MRP

Title of Application: Change to the MRP to clarify issues regarding the sediment pond. Response to technical memorandum of September 9, 2005

Task #2291

Permit Number: 015/032

Mine: GENWAL MINE

Permittee: GENWAL RESOURCES

Provide a detailed listing of all changes to the mining and reclamation plan which will be required as a result of this proposed permit application. Individually list all maps and drawings which are to be added, replaced, or removed from the plan. Include changes of the table of contents, section of the plan, pages, or other information as needed to specifically locate, identify and revise the existing mining and reclamation plan. Include page, section and drawing numbers as part of the description.

			DESCRIPTION OF MAP, TEXT, OR MATERIALS TO BE CHANGED
☐ ADD	☐ REPLACE	☒ REMOVE	Old Appendix 7-4 "Sediment Pond Calculations"
☐ ADD	☐ REPLACE	☐ REMOVE	by Richard White, 4/9/92. This appendix
☐ ADD	☐ REPLACE	☐ REMOVE	has been replaced by new Appendix 7-4
☐ ADD	☐ REPLACE	☐ REMOVE	"Sediment and Drainage Control Plan",
☐ ADD	☐ REPLACE	☐ REMOVE	Dan Guy, April 2003
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☒ REMOVE	Appendix 7-6, Appendix 7-8, Appendix 7-10
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☒ REMOVE	Plate 7-4, Plate 7-4a, Plate 7-6, Plate 7-6a
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☒ REPLACE	☐ REMOVE	page 7-48, page 7-49
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☒ REPLACE	☐ REMOVE	page 5.29
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☒ REPLACE	☐ REMOVE	Plate 5-3, Plate 7-3
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
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☐ ADD	☐ REPLACE	☐ REMOVE	

Any other specific or special instructions required for insertion of this proposal into the Mining and Reclamation Plan?

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Runoff- and Sediment- Control Facilities

Results of analyses to determine the required size and hydraulics of the sediment pond are included in Appendix 7-4. Permanent disposal of the sediment removed during cleanout will be in accordance with Section 535.

Prior to any discharges through the decant system on the sediment pond, a sample will be collected to determine total suspended solids, settleable solids, total dissolved solids, oil and grease, total iron, total manganese concentrations, and pH. The sample will be collected by opening the gate valve on the dewatering device, allowing water to flow from the pond through the primary spillway for a sufficient time to collect a sample of the water, and then immediately shutting the gate valve to prevent further dewatering. This will then be submitted to a laboratory for analyses of the indicated parameters.

After receipt of analytical results from the laboratory, if the pH and concentrations of total suspended solids, settleable solids, total dissolved solids, oil and grease, total iron, and total manganese are within the accepted limits, water will be discharged from the pond through the dewatering device. If the parameters of concern are not within the acceptable limits, no water will be discharged through the device.

During discharge of water to Crandall Creek from the sediment pond, samples of the water will be collected at the discharge point at the beginning and end of the discharge time. These samples will be sent to a laboratory following the discharge period for analyses of total suspended solids, settleable solids, total dissolved solids, total iron, total manganese oil and grease, and pH. Analytical results will be submitted to the Division with the subsequent quarterly report.

As noted on Plate 7-4, the emergency spillway discharges onto the boulder-covered slope adjacent to the sedimentation pond. Boulders that cover this slope were blasted from the cut above the pond during construction of the mine-access road. Due to the large size of the boulders, laboratory size-fraction analyses could not be conducted. However, the boulders are visually estimated to range up to at least 10 feet in diameter. It is further estimated that approximately 80 percent of the coarse rock on the slope is finer than 8 feet in diameter, 30 percent is finer than 5 feet in diameter, and 10 percent is finer than 3 feet in diameter.

The blasted rock has an approximate thickness of 15 to 20 feet at the top of the slope and 5 to 6 feet at the bottom of the slope. The soil that underlies the rock is a silty sand. Size-fraction

analyses presented by Delta Geotechnical Consultants (1982) indicate that this soil is 70 percent sand ans 30 percent silt and clay (the latter being minus 200 mesh).

The emergency spillway is lined wuth riprap and a filter blanket to reduce erosion potential. A concrete cutoff has also been installed immediately downstream of the inlet. The concrete cutoff ensures that the emergency spillway will not erode during a discharge event. Grading of the riprap, filter blanket, and embankment materials are shown in Figure 7-10. The spillway will discharge directly onto the boulder-covered slope. Due to the extreme thickness of the boulders snd cobbles on the slope, additional erosion protection below the emergency splillway will not be required.

All new fill required to modify the mebankment will be placed in 6-inch lifts. This new fill will be compacted in place by repeated passes of a front-end loader or equivalent prior to placing the next lift. Compaction will continue until the density of the material is at least 90 percent of Proctor density (as determined by sandcone density tests in the field).

As included in the original design, the interior of the pond will be lined with a 12-inch thick local, compacted clay to reduce seepage from the pond and, thereby increase the stability of the embankment. The clay liner will be placed in 66-inch lifts and compacted during placement by at least four passes of a front-end loader or equivalent. The initial layer will be disk-harrowed into the bottom of the pond to completion.

After pond cleanout, the thickness of the clay liner will be sampled by means of a bucket auger at 8 locations. Three holes will be placed along the ingress/egress route and five additional holes will be randomly selected fro the remaining pond area. If any of the holes penetrates less than 10 inches of clay, additional clay will be compacted into the deficient areas of the pond.

During the summer of 1990, a power line from Utah Power & Light was brought in across the top of the canyon. At this time the use of the diesel generator was terminated. Presently, a state of the art substation and transformer provide all power needs. The high voltage lines from the substation to the mine are run underground in cement covered conduit thus eliminating the need of overhead power poles and transmission lines.

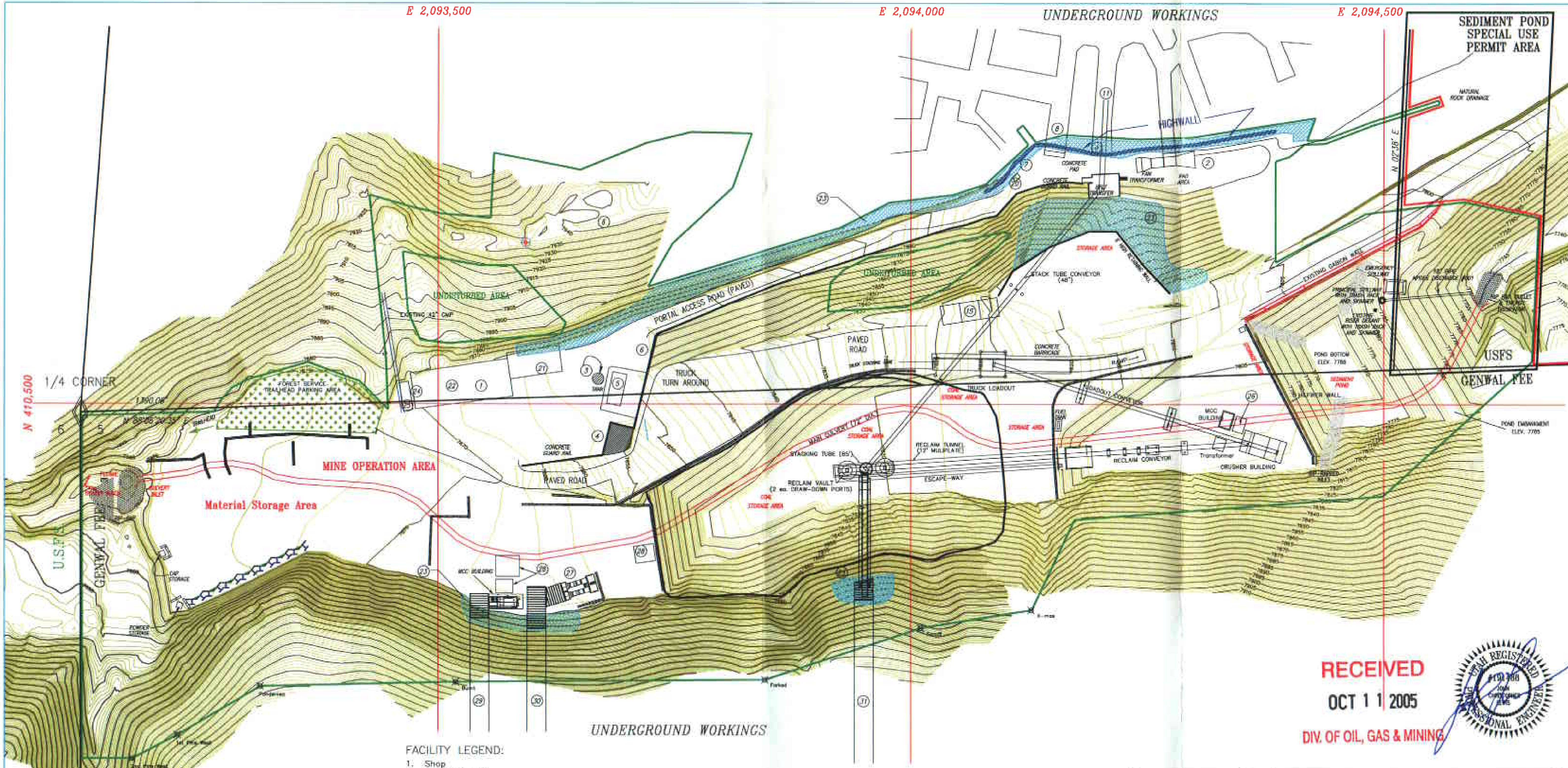
The oil storage and fuel containment area (80' x 20') is located at the west end of the old loadout area. This containment area is of sufficient volume to hold the volume of the largest storage tank found within the containment area plus any additional storm water. The containment area has a valve connected to the drain inside the wall. The valve and dran will provide a means for removing any spills or water in the containment area. A certified SPCC plan outlining emergency action as per R645-301-730 is available at the mine site (Appendix 5-10). Refer to Plate 5-3 for all surface buildings and structures.

An underground bathhouse has been constructed to provide shower and sanitary facilities for the miners. This underground bathhouse was designed and installed in accordance with all State Health, MSHA, and Forest Service regulations. These agencies were contacted prior to the design and implementation for their input and approval as necessary. The water and sewage plans can be found in Appendix 5-11 and 5-12, respectively.

After the South Crandall portals were constructed, three small material storage sheds were placed on the site near the portals (see Plate 5-3). These sheds are all less than 20' x 25' and are of temporary type construction. The are used to store roof-bolt resin, electrical parts and other miscellaneous items. These sheds will be removed prior to final reclamation.

Two mine fans located on the surface, as shown on Plate 5-3, are used to ventilate the mine workings to insure a sufficient amount of oxygen for mine employees to continue operations within the mine. Other structures such as cement guard rails and cement walls have been constructed, with the Division's approval, and are listed within pages 5-33 and 5-34. This list includes the approximate date of completion of each structure and the description of each construction project.

Shotcrete was sprated onto the cut-slope above the portals, the portal roads, and the coal storage area, as shown on Plate 5-3. A 4" square wire mesh was used, being spaced approximately 1" to 2" away from the existing slope. The wire mesh was secured to the slope with standard metal clips and bolts. Two-inch PVC pipe, perforated for drainage, was inset 2 to 3 feet into the slope at two different elevations, approximately 6" to 12" from the bottom of the project and 12" to 24 from the top of the project. These pipes were spaced 6 to 10 feet apart for the entire length of the project, with 2" to 4" of shotcrete then being sprayed onto the wire mesh. The intent of the project is to stabilize the cut slope to eliminate sloughage and enhance safety for personnel.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E 2,094,500
UNDERGROUND WORKINGS
SEDIMENT POND SPECIAL USE PERMIT AREA
NATURAL ROCK DRAINAGE
HIGHWALL
N 410,500
1/4 CORNER
UNDISTURBED AREA
PORTAL ACCESS ROAD (PAVED)
PAVED ROAD
TRUCK TURN AROUND
FOREST SERVICE TRAILHEAD PARKING AREA
MINE OPERATION AREA
Material Storage Area
CONCRETE BARRICADE
TRUCK LOADOUT
STACK TUBE CONVEYOR (48")
STACKING TUBE (85')
RECLAIM TUNNEL (12' MULTIPLATE)
RECLAIM VAULT (2 ea. DRAW-DOWN PORTS)
ESCAPE-WAY
RECLAIM CONVEYOR
CRUSHER BUILDING
MCC BUILDING
Transformer
STORAGE AREA
COAL STORAGE AREA
POND BOTTOM ELEV. 7788
SEDIMENT POND
POND EMBANKMENT ELEV. 7785
USFS
GENWAL FEE
U.S.F.S.
UNDERGROUND WORKINGS
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LEGEND:

SEDIMENT POND SPECIAL USE PERMIT AREA	
POTENTIAL EXTENT OF DISTURBANCE	
10' CONTOUR	
JERSEY BARRIERS	
RE-ESTABLISHED USFS ROAD (DOUBLE-LANE)	/ / / /
SAFETY BARRIERS	

N

FACILITY LEGEND:

1. Shop
2. Ventilation Fan
3. Rockdust Silo
4. Concrete Dumpster Pad
5. Power Center
6. Power Pole
7. Offices & Bathhouse (u'grd)
8. Intake Portal
9. Belt Portal
11. Mine Belt
15. Oil Storage
20. Visual Disconnect
21. New Warehouse and Office Building
22. 4500 Gallon Cullinary Water Tank
23. Shotcrete
25. Parts Shed
26. Portable Shed
27. Ventilation Fan
28. Material Storage Sheds
29. Intake Portal
30. Return Portal
31. Belt Portal

<REVISIONS>

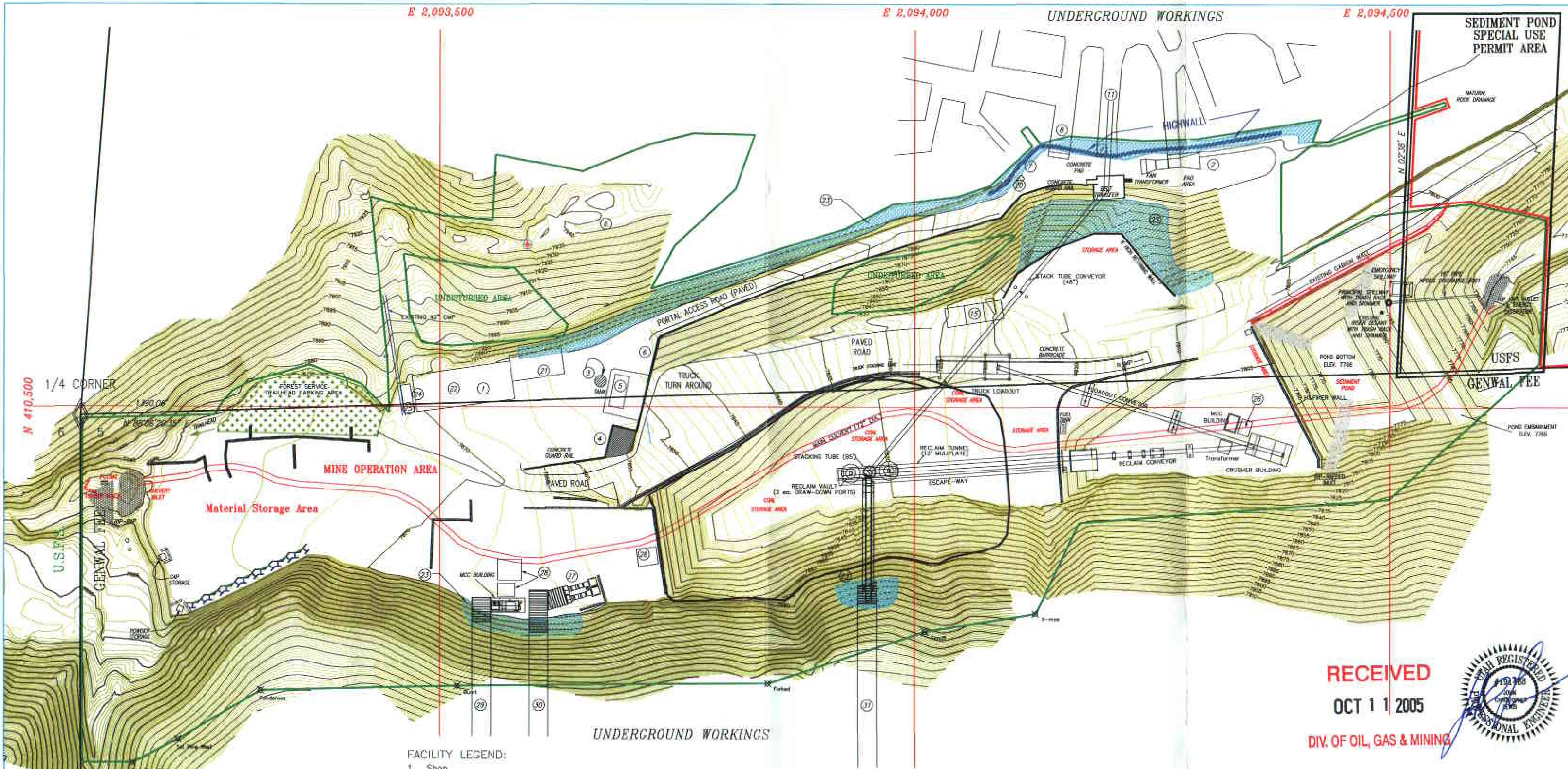
07/01/99	G.E.G.
08/26/99	J.C.L.
11/18/02	J.K.S.
05/20/04	J.D.S
11/05/04	J.D.S
05/09/05	J.D.S
07/11/05	J.D.S

GENWAL RESOURCES, INC.

P.O. Box 1077 Price, UT
Telephone (435) 888-4000

CRANDALL CANYON MINE
SURFACE FACILITY MAP

DRAWN BY:	JDS	ACAD REF:	5-3
DATE:	07/11/05	PLATE #:	5-3
SCALE:	1" = 100'		



E 2,093,500
E 2,094,000
E 2,094,500
UNDERGROUND WORKINGS
SEDIMENT POND SPECIAL USE PERMIT AREA
N 410,500
1/4 CORNER
UNDISTURBED AREA
PORTAL ACCESS ROAD (PAVED)
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STACKING TUBE (85')
RECLAIM VAULT (2 ea. DRAW-DOWN PORTS)
ESCAPE-WAY
RECLAIM CONVEYOR
CRUSHER BUILDING
MCC BUILDING
Transformer
EXISTING GABION WALL
POND BOTTOM ELEV. 7766
POND EMBANKMENT ELEV. 7785
USFS
GENWAL FEE
MCC BUILDING
UNDERGROUND WORKINGS
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FACILITY LEGEND:

1. Shop
2. Ventilation Fan
3. Rockdust Silo
4. Concrete Dumpster Pad
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26. Portable Shed
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28. Material Storage Sheds
29. Intake Portal
30. Return Portal
31. Belt Portal

LEGEND:

- SEDIMENT POND SPECIAL USE PERMIT AREA
- POTENTIAL EXTENT OF DISTURBANCE
- 10' CONTOUR
- JERSEY BARRIERS
- RE-ESTABLISHED USFS ROAD (DOUBLE-LANE) / / / /
- SAFETY BARRIERS

<REVISIONS>

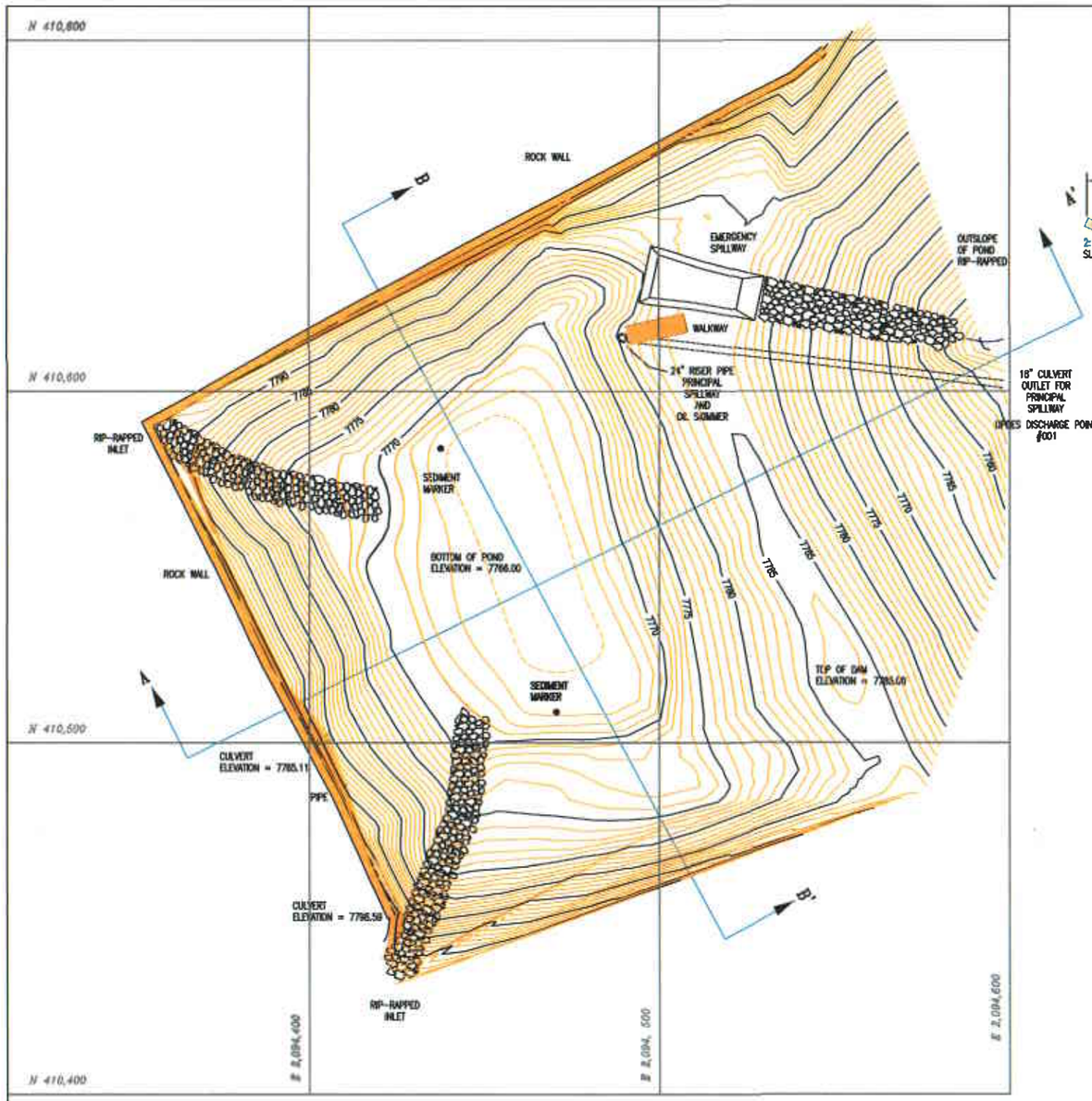
Date	By
07/01/99	G.E.G.
08/26/99	J.C.L.
11/18/02	J.K.S.
05/20/04	J.D.S
11/05/04	J.D.S
05/09/05	J.D.S
07/11/05	J.D.S

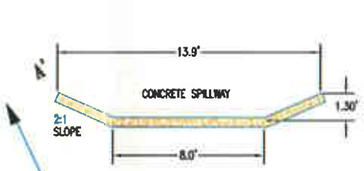
GENWAL RESOURCES, INC.

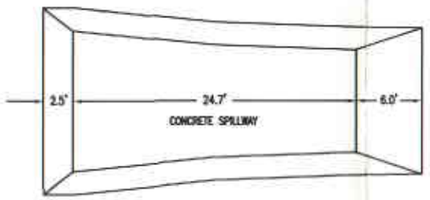
P.O. Box 1077 Price, UT
Telephone (435) 888-4000

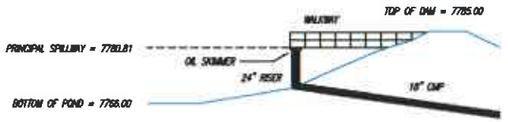
CRANDALL CANYON MINE SURFACE FACILITY MAP

DRAWN BY:	JDS	ACAD REF:	5-3
DATE:	07/11/05	PLATE #:	5-3
SCALE:	1" = 100'		



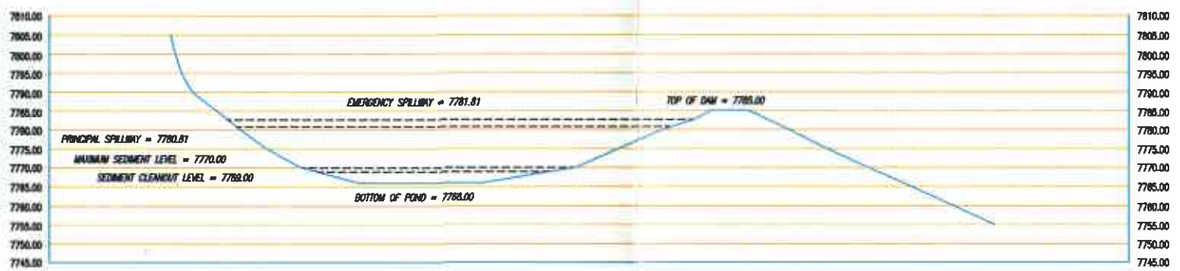




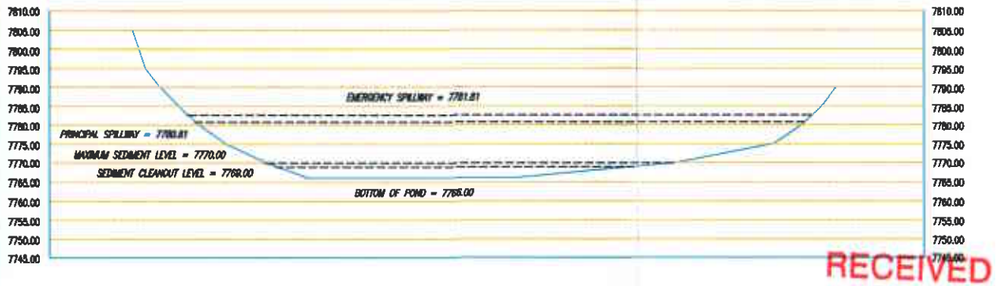


EMERGENCY SPILLWAY DETAIL

PRINCIPAL SPILLWAY DETAIL



SECTION A-A'



SECTION B-B'

RECEIVED
OCT 1 1 2005
DIV. OF OIL, GAS & MINING

UTAH REGISTERED #154168 DAN W. GUY PROFESSIONAL ENGINEER

AS-BUILT SEDIMENT POND:

LOCATION:	*ELEVATION:*	*VOLUME:*
BOTTOM OF POND:	*7766.00*	*0.000 AC. FT.*
SEDIMENT CLEANOUT LEVEL:	*7769.00*	*0.290 AC. FT.*
MAXIMUM SEDIMENT LEVEL:	*7770.00*	*0.437 AC. FT.*
PRINCIPAL SPILLWAY:	*7780.81*	*3.513 AC. FT.*
EMERGENCY SPILLWAY:	*7781.81*	*3.936 AC. FT.*

N

CONTOUR INTERVAL = 1'

Note: Pond Cleaned in November 2003.
Survey Made in April 2004.

<REVISIONS>	
03/07/01	GEG
03/15/01	BEI
04/2004	GEG
06/2005	BEI

GENWAL RESOURCES, INC.
P.O. Box 1420 195 North 100 West Huntington, Utah
Telephone (435) 687-9813

CRANDALL CANYON MINE
GENWAL POND (AS-BUILT)

DRAWN BY: *BLACKHAWK ENGINEERING*	ACAD REF: *AS-BUILT*
DATE: *06-28-06*	PLATE #: 7-3
SCALE: *1" = 40'*	