BOX ELDER COUNTY
November 17, 1994

The Board of Planning Commissioners of Box Elder County, Utah, met in regular session in the Commission Chambers of the Box Elder County Courthouse, 01 South Main Street, in Brigham City, Utah, at 7:00 p.m. on November 17, 1994.

The meeting was called to order by Chairman Richard Kimber with the following members present, constituting a quorum:

Richard Kimber	Chairman
Jon Thompson	Member
Stan Reese	Member
Louis Douglas	Member
Deanne Halling	Member
David Tea	Member
Allen Jensen	Commissioner, Member
Denton Beecher	Ex-Officio Member, Surveyor
Marie McKinnon	Recorder/Clerk Secretary

Excused:

Marie Korth	Ex-Officio Member, Recorder/Clerk

ATTENDANCE LIST: (Attachment No. 1)

AGENDA: (Attachment No. 2)

APPROVAL OF MINUTES:
Chairman Kimber presented the Minutes of October 20, 1994, for approval. Mr. Thompson made a motion to accept the Minutes of October 20, 1994. Mr. Reese seconded. None opposed. The motion carried.

CONDITIONAL USE PERMIT (50):
Davis County Solid Waste Management and Energy Recovery Special Service District.
Mr. LeGrand W. Bitter, Director, met with the Planning Commission to present and discuss a conditional use permit request for a landfill in the Howell-Blue Creek area.

Mr. Bitter presented reduced copies of some large maps provided by the Soil Conservation Service illustrating the proposed landfill. He pointed out the location in Township 13 North, Range 6 West, sections 18, 13, 14, and 400 acres in section 22. Mr. Bitter stated the Landfill Siting Task Force looked at a number of sites and narrowed them down to 7; held a public hearing and received public comment. From those seven, three were selected for consideration, and the Blue Creek site was chosen. Since that time there has been

additional comment from the people in the area surrounding the Town of Howell. The District, along with their engineers, met with the residents of Howell and invited them to tour the Davis County landfill and the facility in Utah County to become familiar with the operation. Mr. Bitter said all of the people who went on the tour and most of the people attending the town meetings felt much more comfortable with the proposal.

Mr. Bitter referred to the Subtitle D regulations promulgated by EPA under the Resource Conservation and Recovery Act, a portion of which is included as Appendix F of the Application. This addresses the siting, design, construction, operation, closure, post-closure, and some issues related to financing of landfills. He stated Subtitle D is focused directly at protection of the environment and is very detailed.

Mr. Bitter stated he would like to open up the discussion to questions from the audience. Chairman Kimber asked if there are topographical maps of the area showing elevations, etc. Mr. Bitter stated he did not have one. Mr. Beecher provided such a map. Chairman Kimber asked if there is a map showing the adjacent property owners' land in relation to the proposed landfill site. Mr. Bitter answered ownership is not listed on this particular map.

Ms. Gretta Spendlove, legal counsel for the District, stated they have plat maps showing the surrounding land owners. The site is 2,300 acres, and any land owners would probably be quite a distance from the actual site of the landfill. She stated there are a few large landowners adjacent to the site.

Mr. Bitter stated it is anticipated work would probably be started in the west portion of section 18 near the freeway. A site characterization study for ground water, geology, etc., will be completed. If the site meets the requirements, a permit application will be submitted to the state for review. He displayed photographs of the Layton landfill owned by the District and pointed out that there are subdivisions on both the northeast and southeast of the site. Also there are $200,000.00 homes being built in those areas. The people do not seem to mind because of the manner in which the landfill is operated.

A question was asked from the audience if the landfill would be fenced. Mr. Bitter stated Subtitle D requires the landfill site be fenced, not the full acreage, only the active cell.

Mr. Reese asked if the site was picked by people who were opposed to the White's Valley site. Mr. Bitter explained that the site committee consisted of four members from Davis County and six from Box Elder County. Included are State Representatives, Marda Dilree, and Eli Andersen, Senator John Holmgren and Senator David Steele, along with other private citizens and government representatives. The intent of the committee was to find sites that were feasible,

that met the criteria from a geological standpoint as well as meeting the site requirements.

Ms. Halling asked what geologic studies have been done. Mr. Bitter replied there have not been any as of yet. Mr. Mike Lowe, Utah Geological Survey, stated his agency has looked at published data which consists of geologic maps and a Utah State Engineers Technical Report which deals with ground water issues. He said basically it is a valley that is surrounded by sandstone and limestone formations. He explained the composition of the soils and stated the surface forms a cap over the primary drinking water source and acts as a protection for the drinking water under the site. There do not appear to be any faults that are 10,000 years old or younger that might impact a landfill, nor does there appear to be any unstable ground. Mr. Lowe stated from published information the geology appears suitable, however, a detailed site characterization study needs to be done and submitted.

Chairman Kimber asked if the committee had ranked the sites and selected the best, or did they come to a consensus; what was the process? Mr. Bitter answered that it was a process of elimination based on characteristics of the site, location, cost of improvements, utilities, and other considerations.

Chairman Kimber asked Representative Eli Anderson if he felt comfortable with the process used in the selection and recommendation of the site. Representative Anderson stated the committee looked at several sites along with the State Geologist and the Department of Environmental Quality. A site was agreed upon after all things were taken into consideration and the public hearing was held. Chairman Kimber asked how much opposition there was to the site. Representative Anderson replied there was no opposition at the public hearing.

Commissioner Jensen asked Mr. Bitter why section 22 was included; he said it does not appear to be accessible to the other sections. Mr. Bitter replied there is a prescriptive easement where the farmer has used the corner in order to farm the property. He said it was negotiated in the option purchase.

Commissioner Jensen stated the proposed landfill is within two miles of the municipal boundaries of Howell, and he was concerned. Mr. Bitter stated as the crow flies that is true, but in driving on the road it is about five miles into town. Mr. Beecher pointed out the town limits are farther north than the town itself.

Mr. Carl Roberts commented that when the public hearing was advertised in the paper, many people did not understand the area involved very well. He said the night the hearing was held in Garland there was quite a bit of opposition. Mr. Bitter stated they did try very hard to help the people understand the situation and to work with them.

Mr. Thompson asked Representative Anderson if the committee had received input from some of the professional people. He said in the report of geologic hazards, it said the ground was stable, is that correct? Could that be a conflict? Mr. Mike Lowe stated ground shaking affects all sites in Utah and is dealt with in the regulations under Seismic Impact Zone which deals with how things are constructed. Unstable ground refers to landslides and areas that are prone to subsidence.

Mr. Thompson asked about erosion and if it is probable. Mr. Lowe said it is probable. Mr. Thompson then asked about shallow bedrock. Mr. Lowe stated it might be difficult to excavate, particularly in section 22. Mr. Thompson then asked about contamination of ground water. Mr. Lowe stated those are issues that will be dealt with in the detailed study. Mr. Thompson asked about streams and flooding. Mr. Bitter stated that was taken into consideration; the ground is quite level and the water runs off in both directions.

Mr. Dennis Downs, Utah Division of Solid and Hazardous Waste, stated if this site is approved by the Planning Commission, the next phase is to go into a site characterization study where they would actually bore holes and find out exactly what the surface of the ground is for that particular location. If everything is ok, the next phase would be that Davis County would have to put together a permit application which must define exactly how they are going to mitigate run on and run off, depth to ground water, bed rock, access of suspensing issues, roads, as well as operation of the facility, daily cover, how much cover, and whether or not liners are required for the facility. That is part of the permit application. At that point the application would be reviewed by the state as to whether or not that facility will be protective of public health and the environment. A decision would then be made.

Mr. Thompson asked Representative Anderson why the Water Conservation District retracted their initial letter of approval of the site. Representative Anderson stated he could not answer for the District. Mr. Roberts stated there was a public hearing held, but it was not until after the hearing that it was found there were 515,500 acres in the Water Conservation area set aside by the Box Elder County Commissioners as Service Area Number One for flood control and water conservation. He said he was at the meeting the night the letter was read. He said he then called Frank Nishiguchi, Chairman of the Water Conservancy District, and asked if he remembered that the property is on the tax rolls for the District. Mr. Nishiguchi said he had forgotten and was told there had been no opposition to the landfill.

Ms. Halling stated the application mentioned there are several wells and asked Mr. Bitter their location. Mr. Bitter pointed out two of them on the map. He said landfills have been designed under the new criteria to make certain that the resources are protected in every way possible. He stated there are a variety of designs that can be used. Monitoring around a landfill is required by state law

in a periodic fashion. First, background testing is done before any construction is started. A baseline is established as to the quality of water. Testing is done throughout the operation and a 30 year post closure period.

Mr. Thompson asked if a study had been made as to the effect on property values adjacent to the landfill area. Mr. Bitter replied there have not been. In other areas there have not been any negative impacts. He said they do not anticipate any reduction of property values in the area.

Mr. Thompson asked Representative Anderson his opinion of the site. Representative Anderson said from the input the committee received and from many sources, it does seem to be the best one they looked at.

Mr. Tea asked Mr. Bitter the type of construction that would be used. Mr. Bitter stated after doing numerous studies of the location; a determination is made as to how deep the excavation can go. He estimated the depth to be about 20 feet down with compacted clay, next there would be synthetic liners, a leacheate collection system, a berm up above on the earth, and then that area would be filled in. It would not be an open dump, it would be a landfill. He said to cap the landfill, the cap must be less permeable than the base. After it is capped, vegetative cover will be planted to prevent erosion. That will be monitored and repaired for thirty years. Depending upon the soil on site, soil or gravel may be used, or foam or a tarp; garbage must be covered each day.

Commissioner Jensen asked about another map included in the application. Mr. Bitter stated it was prepared by the water people in the area showing the location of a variety of different wells. He said if they felt they were getting into an area where they would be polluting wells and contaminating them, they would not move ahead.

Commissioner Jensen asked what makes this site more desirable than the White's Valley site. Mr. Lowe stated this site is better than the White's Valley because there is an upward ground water gradient so that if something did get through the landfill base, it would not be able to get into the drinking water. There are clay layers, and the leacheate could not get through them. He said that is not the situation in White's Valley.

Mr. Beecher stated in the Ordinance there are several things that need to be accomplished. The development of each site must occur in a manner harmonious with the adjacent land to minimize problems of drainage, erosion, earth movement, and similar hazards. All public lands and places, water courses, and other lands in the county must be protected from erosion, earth movement or drainage hazards. Planning, design and construction of all development must be done in a manner which provides maximum safety and human enjoyment, except where it is physically impossible. Such construction must be as unobtrusive in the natural terrain as possible. In so far as

practicable insure the retention of vegetation and aid in the protection against erosion, earth movement and other hazards and encourage the preservation of natural scenic qualities of the county. Mr Beecher stated the only thing there is to go on are the requirements that the state has adopted and enforce these types of things.

Chairman Kimber stated he would like to table the issue temporarily and hear from the people from Howell.

LANDFILL:

Mr. Brad Hawkes, representing the Howell Town Board, Mr. Verdun Fonnesbeck, and Mr. Robert Allen met with the Planning Commission to present their feelings about the proposed landfill.

Mr. Fonnesbeck read a prepared statement expressing his opposition. He was especially concerned about possible contamination of the water supply and the loss of valuable farming ground. He suggested building a railroad and transporting the garbage to the salt flats in the western areas of the county. Mr. Fonnesbeck strongly emphasized his opposition and urged the Planning Commission to select another site.

Mr. Robert Allen, who also owns land near the proposed site, but lives in Cache County, also spoke against the proposed landfill. He began by expressing his displeasure with the way the landowners in the area are treated, stating several who own land do not live in the county and have no voice in the politics. He said they pay taxes and support the schools, but do not vote for the elected officials. Mr. Allen stated they do have economic interests in the area. He commented on the wells, stating the water in the Blue Creek area is of very high quality. He stated there are better locations in the county for a landfill than the proposed area near Howell and named four different sites. Mr. Allen stated he has property adjacent to the proposed landfill area and emphasized his opinion that there are much better places.

Mr. Brad Hawkes stated when the proposal was first introduced, the Town Board of Howell was very much opposed to the landfill. The Board met with the site selection committee and the Davis County group. He said there was a major concern about the water system. The Town Board was taken on a tour of the Davis County facility and they were very impressed with the operation. After the Town Board discussed the proposal, a public hearing was held. Mr. Hawkes said there are still many people opposed, but many others have changed their opinion. In Town Council they brought a Resolution before the board and voted not to oppose the proposed landfill.

Chairman Kimber asked Mr. Carl Roberts the feelings of the Box Elder Service District toward the proposed landfill. Mr. Roberts stated they have many concerns that have not been addressed yet. When the watershed was built, it was required that for every structure put on the property, there must be an easement issued by

the landowner at that time. There are fourteen easements on the property under consideration. He said he did not know how they would work around the easements so as to be consistent with the watershed area.

Representative Marda Dillree stated it is her understanding that during the state approval process, after the engineering plans are given, there will be more public hearings for input that will deal with all of the safety issues and all of the concerns on the easements. If they are not adequately addressed, the citizens have additional recourse at that time to address those issues and voice opinions that may require more stringent specifications from the state to insure that they have not missed anything. She stated this will be one of the best environmentally safe landfills in the State of Utah. Landfills will be closed down because they cannot meet the standards now in place.

Mr. Steve Lawson, representing Thiokol, met to voice their position on the matter. He said their only reason for opposing any activity that utilizes Highway 83 is because it puts their company and Morton at risk. It is the only route in and out of the facility. There are 5,000 people driving up and down that route to work on a two lane road. They are not anxious to compete with any more traffic than necessary. Adding fifty semi trucks of solid waste increases their risk. He said their geologists and engineers have closely looked at the proposal and they are willing to accept the risk. Fifty percent of Thiokol's water comes from the Blue Creek area.

Commissioner Jensen asked Mr. Bitter if he was aware of the 14 easements that exist with the property. Mr. Bitter stated he was aware of the structures and that the easements had been mentioned. A permanent easement would be a concern; however, the requirements they would need to meet for storm water control would be an improvement to the structures that are currently in place.

Mr. Carl Roberts stated the Service District is trying to protect the Bothwell Pocket in White's Valley. He said he had discussed the situation with geologists who told him the west hills area of White's Valley could be interconnected with the Blue Creek aquifers.

Mr. Thompson made a motion to table the issue until the December 15 Planning Commission Meeting at which time a recommendation will be made. Mr. Reese seconded. None opposed. The motion carried.

CONDITIONAL USE PERMIT (51):
Request For Gravel Pit Northwest of Mantua (Attachment No. 3)

Mr. Duane Smith, LeGrand Johnson Construction Company, met with the Planning Commission to request a temporary conditional use permit for excavation of gravel northwest of Mantua. Mr. Smith stated this will probably impact about ten to twelve acres. They have all of the environmental permits taken care of. There is a one hundred percent

performance and materials bond on the project. Mr. Smith said there will be a temporary asphalt plant in the area.

Mr. Thompson made a motion to recommend to the County Commission the approval of a temporary conditional use permit for the excavation of gravel for the LeGrand Johnson Construction Company and that they are to comply with all state and federal regulations pertaining to their contract with DOT and the owners. Ms. Halling seconded. Commissioner Jensen abstained. The motion carried.

MINOR SUBDIVISONS:

Fairbanks Estate Preliminary Approval:

Mr. Ned Fairbanks met with the Planning Commission to request preliminary approval for his minor subdivision located at 7425 South Highway 89 in Willard. Mr. Beecher stated Mr. Fairbanks needs a preliminary title report, utility company approval, protective covenants, construction estimates, bonding and easements. Chairman Kimber requested that Mr. Beecher submit the plan to the Willard Flood district for their comments. Commissioner Jensen made a motion to approve the preliminary plan for the Fairbanks Estate Minor Subdivision. Mr. Tea seconded. None opposed. The motion carried.

OLD BUSINESS:

Report from DEQ: (Attachments No. 4)

Mr. Beecher stated he had spoken with Mr. Marvin H. Maxell, Manager, Air Standards Branch, Department of Environmental Quality. He asked Mr. Maxell what they have been doing with the air monitoring at the Parsons gravel pit. Mr. Maxell assured Mr. Beecher they have made several visits and examinations of the pit because of the complaints. He told Mr. Beecher that Mrs. Donna Ball and others have visited him on various occasions and have made several accusations. DEQ has made many inspections, probably more than any other gravel pit they have ever done. They have assured Parsons it is not harassment on their part, but they are only trying to fulfill requests the citizens have made of them. He assured Mr. Beecher that in no way are they conflicting or in any violation of any air quality standards. Mr. Maxell told Mr. Beecher that the Parsons pit in the South Willard area is the standard to which they are asking all gravel pit operators to work under. Mr. Beecher asked Mr. Maxell what it would take to create a violation of air quality in the gravel pit. He told Mr. Beecher they would have to be running at a maximum of 20% opacity for an eight hour shift for a month. Their tests showed less than 5%. They would have to be generating a great deal of dust to exceed the PM10. Mr. Maxell stated to put in a monitoring device would cost approximately $29,000.00. Mr. Beecher wrote to Mr. Maxell and asked for his findings in writing, what he felt about this pit, or what it would cost to run a monitoring device. Mr. Beecher read the letter (attached). Also attached is a copy of a letter to Ms. Donna Ball dated August 9, 1994, which explained what is being done, what has been going on, etc. He said it is totally contrary to what Ms. Ball told the Planning Commission. Also attached is Parsons' Plan and the inspection report. He requested this material

be included in the Minutes. Mr. Thompson made a motion to include the letter from Mr. Maxell and the attached documents in the Minutes. Ms. Halling seconded. None opposed. The motion carried.

Mr. Thompson asked how many of the questions are in the process of being answered or have been answered. Mr. Beecher stated it was agreed in July or August with Ms. Donna Ball and Mr. Elmer Ward that they would put things on hold in consummating the permit until the air quality report and the water report were received. The water report has not been received. He said Ms. Ball has been told the field work has been done by the South Willard Water Company. Parsons have gotten their well investigation completed by an engineering firm and will probably be on the Agenda for December.

Willard Flood District:

Chairman Kimber referred to a series of letters from Mr. Ron Nelson of the Willard Flood District and asked Mr. Beecher to add them to the file for future reference.

Mr. Thompson made a motion to adjourn at 9:25 p.m. Mr. Tea seconded. None opposed. The motion carried.

Passed and adopted in regular session this 15th day of December 1994.

Richard D. Kimber

Richard D. Kimber, Chairman

ATTEST:

Marie G. Korth

Marie G. Korth
Recorder/Clerk

Planning Comm. Mtg 17 Nov 1994

Name	Representing
Dennis Downs	Utah Div. of Solid & Hazardous Waste
Ralph Bohn	Utah Div. of Solid & Hazardous Waste
Gretta Sperdlove	Davis County Special Service District
Mike Lowe	Utah Geological Survey
Robert & Norine Allen	- Land owners -
Gordon Fennesbeck	Land Owner (Howell)
Carl Bluth	Box Elder Service Area #1
Eli Anderson	DISTRICT 1
Steve L. Grover	Siting Task force
STEVE LAWSON	Thiokol
Andrew K. Funk	Garland
Marda Dillree	State Representative

ATT 1

BOX ELDER COUNTY PLANNING COMMISSION
COUNTY COMMISSION CHAMBERS
BOX ELDER COUNTY COURTHOUSE
BRIGHAM CITY, UTAH
November 17, 1994

1. Public Agenda for the Box Elder County Planning Commission meeting scheduled for November 17, 1994.

2. Notice given to the newspaper this 16th day of November, 1994.

3. Approval of Minutes of October 20, 1994.

4. Scheduled Delegations:

   A. Conditional Use Permit for Landfill (#50)
   Davis County Solid Waste Management and Energy Recovery Special Service District.

   B. Davis County Landfill
   Lyle Nessen, Verd Fonnsbeck, Bob Allen

   C. Conditional Use Permit for Gravel Pit (#51) Northwest of Mantua.

   D. Fairbanks Estate Preliminary Approval.

   E. Mountain View Ranchettes Subdivision
   Final Approval.

   F.

   G.

5. Old Business

   A.

   B.

   C.

BOX ELDER COUNTY, UTAH
CONDITIONAL USE PERMIT APPLICATION

Application No. 51
Applicant Name Le Grand Johnson Construction Co.
Applicant Address P.O. Box 248 Logan, UT, 84323-0248
Bldg. Address City State Zip Code
Submitted for land located at Sec. 9 & 10 R/W SLBM
The use category is gravel operation, which is a conditional use in the MU 160 zoning district.
Fee paid $
Date 11-01-94

SUMMARY
The intended use is Mine rock, crush stockpile & produce Rd. Building materials
The site is described as follows:
open pasture and rock hill North of sleigh hill, North of Mantua.

SITE PLAN
The site plan shows the following public improvements: done

The site plan shows the following private improvements: none

The abutting properties are described as follows: (all) state road 91 and range land.

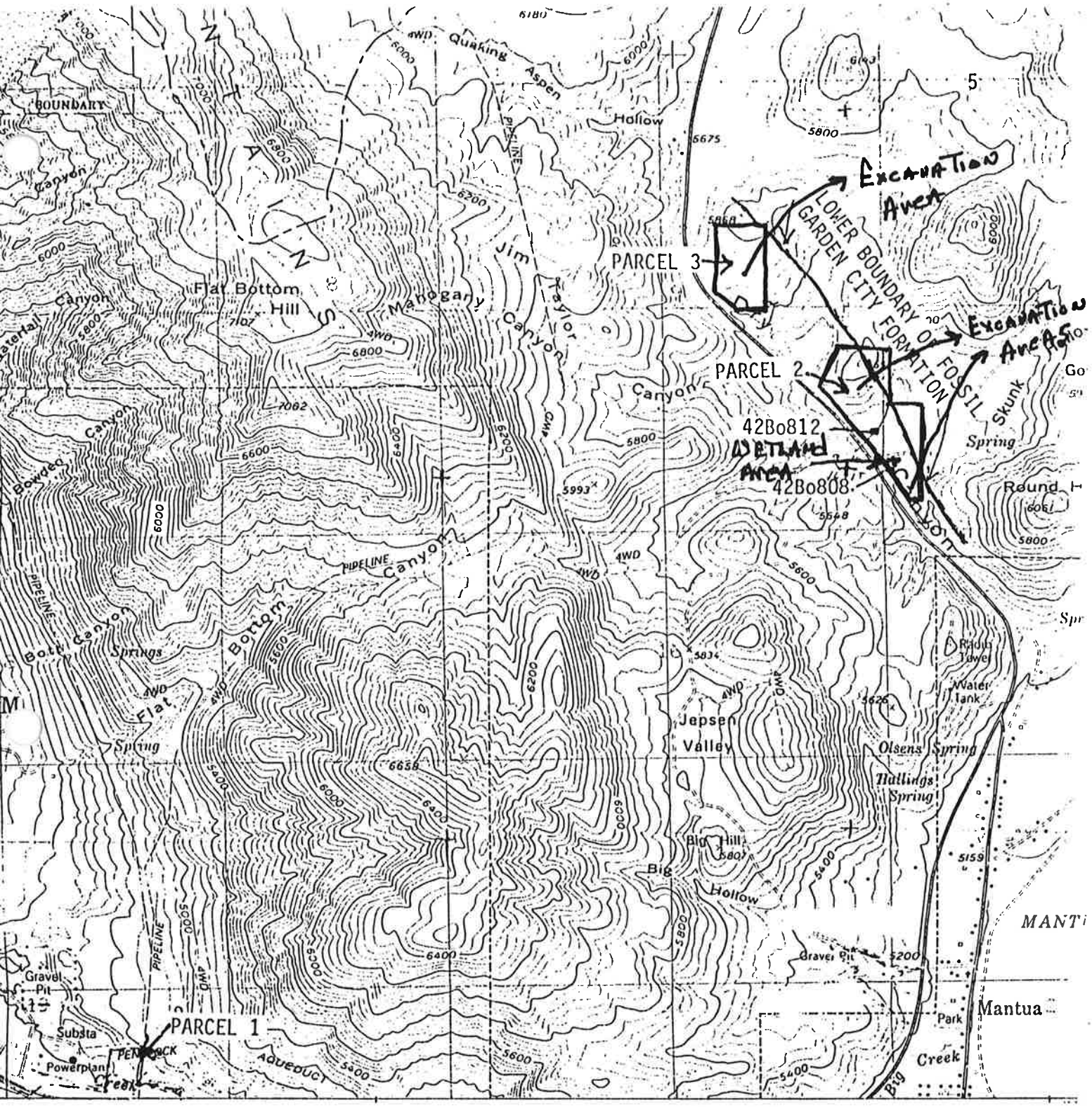
SPECIAL CONSIDERATIONS REQUIRING A CONDITIONAL USE PERMIT
1. Off site improvements

2. Environment concerns - sensitive areas due to:
_____ soils capabilities
_____ wildlife and
_____ plant life
_____ neighboring development
_____ flood potential
_____ soil stability

Environmental concerns governed and administered by Federal Hwy. Administration and UDOT.

3. What are the processes for the control, elimination, or prevention of land, water, or air pollution; the prevention of soil erosion; and the control of objectionable odors?
As per UDOT special provisions of contract.
4. The planting of ground cover or other surfacing to prevent dust and erosion will be located
As per UDOT.

ATT 3



Project Map: LeGrand Johnson Support Facilities; Brigham City Canyon US 89-91 Construction
Project: ARCON (LJC-94-4)
County: Box Elder, Utah
Location: T 9 North, R 1 West
USGS Quad: Mount Pisgah 7.5'

Key:
- Survey Boundary
- Historic Site
- Fossil formation lower boundary

State of Utah

DEPARTMENT OF ENVIRONMENTAL QUALITY
DIVISION OF AIR QUALITY

Michael O. Leavitt
Governor

Dianne R. Nielson, Ph.D.
Executive Director

Russell A. Roberts
Director

150 North 1950 West
P.O. Box 144820
Salt Lake City, Utah 84114-4820
(801) 536-4000
(801) 536-4099 Fax
(801) 536-4414 T.D.D.

NOV 14 1994

November 10, 1994

DAQC-1258-94

Denton H. Beecher
Box Elder County Surveyor
County Court House
01 South Main Street
Brigham City, Utah 84302

Dear Denton,

In response to your November 2, 1994, letter, I am enclosing the Dust Control Plan for the Parsons' Maguire Pit, the Division of Air Quality's August 9, 1994, letter to Donna Ball, and the Division's August 16, 1994, Annual Inspection Report. In addition to the annual inspection, Jim Stephens has observed the Parsons' operation on several other occasions and has found the operation to be in compliance with the Utah Air Conservation Rules and conditions of the Parsons' Approval Order, Dust Control Plan and Relocation Permit.

The Division of Air Quality had about $10,000 invested in the May through September, 1990, ambient air monitoring for fine particulate (PM10) in Willard associated with the Darrell Nelson Pit. The estimated annual cost of monitoring PM10 near the Parsons' gravel pit, on an every-other-day basis, would be as follows, assuming the monitoring site is free:

PM10 monitor	$	5,500
Meteorological equipment		6,000
*Pipe stand		1,000
*Monitoring trailer		12,000
Installation/Maintenance		5,000
Local Operator		600
Electrical power		300

* A pipe stand can be used for temporary summer operation; a monitoring trailer is best for a permanent installation to provide protection for the instruments.

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I hope this information is helpful. Please give me a call if you need clarification or additional information (536-4082). We currently have a prioritized list of 12 locations requesting ambient air monitoring with no funding to accommodate the requests.

Sincerely,

Marvin H. Maxell, Manager
Air Standards Branch

cc Bear River District Health Department
Donna Ball
Faye Facer, J.B. Parsons

State of Utah
DEPARTMENT OF ENVIRONMENTAL QUALITY
DIVISION OF AIR QUALITY

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Executive Director
Russell A. Roberts
Director

150 North 1950 West
P.O. Box 144820
Salt Lake City, Utah 84114-4820
(801) 536-4000
(801) 536-4099 Fax
(801) 538-4414 T.D.D.

August 9, 1994

DAQ-155-94

Donna Ball
7839 South 750 West
Willard, Utah 84340

Dear Ms. Ball:

During the June 17 meeting with you and concerned citizens of South Willard regarding the gravel pit operations in your area, the Division of Air Quality made several commitments to your group. This letter is a summary of activities and deliberations associated with those commitments.

Jeff Dean, in a letter to you dated June 23, 1994, indicated that the Division will inspect the Jack B. Parson Companies' operations in the White Pit (Maquire Canyon Pit) when it begins operation, and provided information concerning covering loads. The Division will continue surveillance of operations in the pit based on your complaints. On July 11, 1994, the Jack B. Parson Companies submitted a dust control plan for the Maquire Canyon Pit to the Division based on the Division's request. The Division will monitor compliance with the dust control plan.

The Division met with Jack B. Parson Companies staff on July 14, 1994, to discuss your concerns, permit modifications, the dust control plan, and the issue of available water to comply with the dust control plan. The issue of limiting hours of operation was discussed. If Jack B. Parson Companies complies with the conditions of the current approval order and the dust control plan, limiting hours of operation should not be necessary, but may be addressed in future permit modifications. Jack B. Parson Companies has purchased the Stanley Parkin Well and provided documentation of such to the State Engineer during application to change the nature and use of 0.3 cfs of water. In a Memorandum Decision, dated July 8, 1994, the State Engineer, Robert L. Morgan, granted a temporary change of place and use of the well water. The limited quantity of water granted in the Memorandum Decision should be sufficient to meet the needs of the pit operations and the conditions of the dust control plan.

The Division of Air Quality has never monitored the ambient air quality associated with the White Pit. However, based on citizen concerns, the Division did set up a particulate monitor in Willard, west of the D/N Pit and collected PM10 data from May 31, 1990, through September 27, 1990. The highest PM10 value measured was 37 $\mu g/m^3$, which was basically background level suggesting no impact from the then two gravel pits in the area.

On August 2, 1994, the Division granted Jack B. Parson Companies a Temporary Relocation to operate in the White Pit for a period less than 180 days. Jack B. Parson Companies' operations in

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the White Pit is subject to the conditions of the Dust Control Plan and the Fugitive Dust Rule, R307-1-4.5.2, in the Utah Air Conservation Rules.

If the Division of Air Quality can be of further assistance in this matter, please give us a call. Please direct compliance issues or concerns to Jeff Dean (536-4089) or Marv Maxell (536-4082).

Sincerely,

Russell A. Roberts, Executive Secretary
Utah Air Quality Board

RAR/MM/hmm

cc: Bear River District Health Department
Jack B. Parson Companies

JBP Jack B Parson Companies

File

RECEIVED
JUL 14 1994
Air Quality

July 11, 1994

Mr. Russell A. Roberts
Division of Air Quality
1950 West North Temple
P.O. Box 144820
Salt Lake City, UT 84114-4820

Re: Dust Control Plan
Parsons' Maguire Canyon Pit (formerly Whites Pit)
South Box Elder County, Utah

Dear Mr. Roberts,

As per our discussions with Mr. Marv Maxell and others at D.A.Q., we hereby submit the following dust control plan for the above referenced pit. We've enclosed a copy of our reclamation plan for your orientation to the pit.

We have and will continue to take positive and responsible measures to minimize and control fugitive dust from this pit. We feel we are in compliance with R 307-1-4-5-2 and the existing approval order on our crushing equipment regarding fugitive dust and emissions.

Listed below is an overview of our dust control plan for our Maguire Canyon Pit.

1. Haul Roads - The main haul road from US89 to the stockpile area is paved. The unpaved pit area is water sprayed regularly as needed with an on-site water truck. We are also using a magnesium chloride "heavy" water application on the more traveled unpaved haul areas and particularly at the scale and paved road approaches.

2. Water System - We utilize an on site 10,000 gallon water storage tank as a source to charge our water trucks and portable crushing components when operating. We are in the process of piping well water to the excavation area which will charge the storage tank, pre-wet the excavation area during crushing and provide water for the crusher.

   The on site water truck is equipped with a remote water cannon which is used to spray the stock piles during dry and windy periods. This equipment is also used regularly and as needed to clean the paved haul roads. The unpaved haul areas are also water sprayed as needed to control dust emissions.

5100 South Washington Blvd. P.O. Box 3429, Ogden, Utah 84409 (801) 479-9400

Our crushing components are now equipped with "fine mist" spray heads which better control fugitive dust when the crusher is operating.

3. Berms - Berms have been established on the South and West perimeters of the mined areas in phase I. These berms will be vegetated this fall. We have planted some 75 cottonwood trees, with a drip system, on these berms which will provide both a sight barrier and wind break.

4. Side Slopes - The permanent side slopes will be vegetated as they are established. We have slopes, again on the West and South perimeters of phase I, that will be vegetated this fall.

This pit is not an extremely difficult pit, as far as dust control is concerned. The morning East to West prevailing winds are not significant. Unfortunately this pit is very visible from the West due to its elevation. The minimal fugitive dust created during crushing is visually exaggerated looking into the morning sun.

As we began crushing in level I last year our crushing spread was also very visible. This visibility also raised the sensitivity to our operation. Our next crushing set-up will be located in the previously excavated area somewhat below the natural ground level and will be much better buffered.

We feel we are in compliance with all regulation regarding fugitive dust and that this plan adequately details our control of emissions. If any further information or detail is needed please contact us.

Sincerely,

R. Fay Facer
Vice President

RFF/ck
Enclosures

FILE COPY

MEMORANDUM

DAQC-982-94

TO: File - **JACK B. PARSON COMPANIES**

THROUGH: Jeff Dean, Compliance Manager

FROM: Jim Stephens, ES

DATE: August 24, 1994

SUBJECT: **JACK B. PARSON COMPANIES**, B, Crusher, McQuire Canyon Pit, South Box Elder County, 777 00194

Type of Inspection: Complaint and Annual

Date of Inspection: August 16, 1994

Multiple Inspection Source: No

Source Location: South Box Elder County, Utah

Source Contacts: Russell Sorter, Operator and Paul Glauser, Environmental Contact

Operating Status:
The crushing plant was operating at the design rate of 400 tons per hour. The crusher operates with 11 water sprays. The water sprays have been placed at positions on the crushing equipment where the operator feels the sprays will be most effective in controlling dust.

Process Description:
The crushing plant utilizes pre-wet raw bank material. The bank material is pre-wet by 5 rainbirds. The crusher operates with 3 sizing screens which produces 4 products. The products are:

1) 1/4 inch minus select rock
2) #4 manufactured fines
3) 5/8 inch plant mix
4) 1/2 inch rock

Water sprays have been attached at the following locations:

1) 3 water sprays on No. 1 cone
2) 2 water sprays on No. 2 cone
3) 1 water spray on No. 3 cone
4) 2 water sprays on jaw
5) 1 water spray on No. 1 screen
6) 1 water spray on No. 2 and 3 screens
7) 1 water spray on plant mix belt

Other equipment operating at the pit are:

1) dozer (diesel)
2) front end loader (diesel)
3) water truck (gasoline)
4) stationary electrical generator (diesel)

Attached to this inspection are 3 pictures taken during the inspection. The pictures were taken while the crusher was operating at the design rate of 400 tons per hour.

Applicable Regulations: Section 4.5.1, Section 4.5.2, Section 4.1.1, UACR, and Jack B. Parson Companies Dust Control Plan dated July 11, 1994. No approval order has been issued to this source .

Source	Opacity Observed	Opacity Limit	Operating Parameters	Applicable Regulations
Jaw	<5%	20%	400 t/hr	Sec 4.5.1 UACR
Feeder	0%	20%	400 t/hr	Sec 4.5.1 UACR
#1 Cone	5%	20%	80 t/hr	Sec 4.5.1 UACR
#2 Cone	5%	20%	80 t/hr	Sec 4.5.1 UACR
#3 Cone	<5%	20%	60 t/hr	Sec 4.5.1 UACR
#1 Screen	0%	20%	400 t/hr	Sec 4.5.1 UACR
#2 Screen	0%	20%	120 t/hr	Sec 4.5.1 UACR
#3 Screen	0%	20%	120 t/hr	Sec 4.5.1 UACR
Storage Piles	0%	minimize (20%)	NA	Sec 4.5.2 UACR
Conveyor Drop Points	0%	20%	400 T/HR	Sec 4.5.1 UACR
Grizzly	0%	minimize (20%)	400 T/HR	Sec 4.5.2 UACR
Mobile Equipment	5%	minimize (20%)	400 T/HR	Sec 4.5.2 UACR
Diesel Powered Equip	5%	20%	NA	Sec 4.1.1 UACR

Dust Control Plan:
Condition

1) Haul Roads - The main haul road from US89 to the stockpile area is paved. The unpaved pit area is water sprayed regularly as needed with an on-site water truck. We are also using a magnesium chloride "heavy" water application on the more traveled unpaved haul areas and particularly at the scale and paved road approaches.

Status The main haul road is paved and is washed off with the water truck daily. The road was clear of aggregate material at the time of inspection. The unpaved pit area and traveled pit roads were being water sprayed with the on-site water truck at the time of inspection. Magnesium chloride had been applied to the more traveled unpaved haul roads. The company is in compliance with Condition 1 of their dust control plan.

2) Water system - We utilize an on site 10,000 gallon water storage tank as a source to charge our water trucks and portable crushing components when operating. We are in the process of piping well water to the excavation area which will charge the storage tank, pre-wet the excavation area during crushing, and provide water for the crusher. The on-site water truck is equipped with a remote water cannon which is used to spray the stock piles during dry and windy periods. This equipment is also used regularly and as needed to clean the paved haul roads. The unpaved haul areas are also water sprayed as needed to control dust emissions. Our crushing components are now equipped with "fine mist" spray heads which better control fugitive dust when the crusher is operating.

Status The company utilizes two on-site water storage tanks, a 10,000 gallon tank and an 8,000 gallon tank to charge the on-site water truck, the crushing components and to pre-wet the raw material excavation area. The on-site water truck is equipped with a water cannon to spray storage piles during dry and windy periods. The crusher is also equipped with "fine mist" spray heads. The company is in compliance with Condition 2 of the dust control plan.

3) Berms - Berms have been established on the South and West perimeters of the mined areas in phase I. The South and West berms will be vegetated this fall. We have planted some 75 cottonwood trees, with a drip system, on these berms which will provide both a sight barrier and wind break.

Status Berms have been established on the south and west perimeters of the mined area of phase 1.. Cottonwood trees have been planted. The berms and the trees do provide both a sight barrier and wind break. The company is

in compliance with Condition 3 of the dust control plan.

4. Side Slopes - The permanent side slopes will be vegetated as they are established.

Status I was told that the side slopes of the pit will be vegetated as they are established. The established slopes that now exist on the south and west perimeters of the pit will be vegetated this fall. The company is in compliance with Condition 4 of the dust control plan.

Emission Inventory: Engineer estimates of uncontrolled emissions:

TSP -	783.1
PM10 -	490.8
SO2 -	17.2
NOx -	18.8
VOC -	16.5

Source Inspection Summary Evaluation:
The source was operating at the design rate of 400 tons per hour during the inspection. I was told that 400 tons per hour is normally operation for this crusher, and that the crusher was in normal operating mode for this pit, water sprays and all.. I observed very little dust being generated by pit operations during the inspection.. The crusher operator was very much aware of the potential dust that could be generated by a crushing operation, and was doing his very best to control it. Water sprays had been located on the crushing equipment where the most good could be obtained. The surface moisture of the raw material after pre-wetting is 10 - 12%. The crusher utilizes a diesel powered generator for electrical power.

Current Recommendation:
The source was operating within established limits provided by the UACR. No further compliance actions should required at this time.

Attachments: VEOs, ITM, 3 pictures taken during the inspection

Inspectors Signature: Jim Stephens

STATE OF UTAH DEPARTMENT HEALTH
DIVISION OF ENVIRONMENTAL HEALTH
BUREAU OF AIR QUALITY
AIR POLLUTION SOURCE EVALUATION REPORT

TYPE OF INSPECTION INITIAL ( ) STACK TEST ( ) CEM ( )
FOLLOW-UP ( ) ANNUAL (X) SURVEILLANCE ( ) COMPLAINTS (X)

DATE 8-16-94 TIME ARR 10:45AM TIME DPT 1:30PM PAGE 1

COMPANY: JACK B. PARSON COMPANIES
CONTACT: RUSSELL SOFTER (OPERATOR)
LOCATION: MACUIRE CANYON PIT / BOX ELDER
PHONE #: 479-5970
INDUSTRY: AGGREGATE CRUSHER COS CLASS. ____
SOURCE: JAW CRUSHER 30-42
HEIGHT OF DISCHARGE POINT: 8FT DIMENSIONS: NA

OPERATING PARAMETERS OF SOURCE-NORMAL (YES X) (NO ___)
ACTUAL: 400 T/HOUR DESIGN: 400 T/HOUR
TYPE BURNER FUEL: NA
CONTROL FACILITY: PRE SOAK + WATER SPRAY

APPLICABLE REGULATIONS/APPROVAL ORDER(S)/LIMITATIONS/ CONDITIONS MET:

SECTION 4.5.1 UACR 20% (Y)/N
Y/N
Y/N
Y/N
Y/N
Y/N

STACK TEST INFORMATION

MAXIMUM ALLOWABLE EMISSION RATE: NA
LAST TEST DATE: NA NEXT TEST DUE DATE: NA

OBSERVER: JIM STEPHENS
OBSERVER CERTIFICATION DATE: APRIL 1994
OBSERVER SIGNATURE: Jim Stephens
COPY OF REPORT GIVEN TO: RUSSELL SOFTER
CONTACT SIGNATURE: Paul Clausen

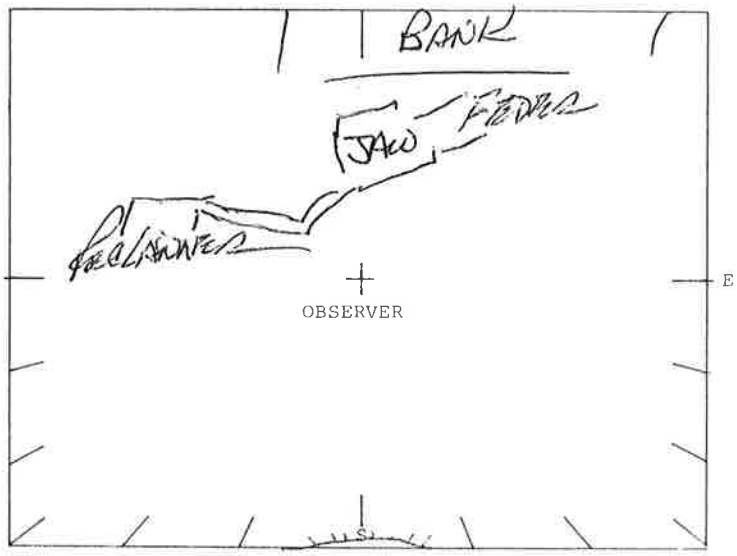
COMMENTS:
WATER TRUCK WORKING ON SITE
4 PRODUCTS 1/4 MINUS SELECT - #4 MANUF
5/8 PLANT MIX - 1/2" ROCK - RAW BANK IS
SOAKED OVER NIGHT WITH 5 RAIN -
BIRDS. PIT IS LOCATED IN HOLE OUT
OF WIND - EQUIP - 3 ACCESS - 1 JAW - 3 CONES
4 EA PRODUCT CONVEYOR AND DROP PNTS - WITH
TRANSFER POINTS - DIESEL POWER GENERATOR
- CONTEND LOADER AND 1 DOZER 11 NATIVE
GRAINS

OBSERVATION & WEATHER CONDITIONS

OBSERVERS DISTANCE TO SOURCE: 100 FEET.
BACKGROUND DESCRIPTION: PIT AND BLUE SKY

PLUME DESCRIPTION:
COLOR: TAN LENGTH: 4 FEET
STEAM PLUME: Y (N) ATTACHED: Y (N) LENGTH OF STEAM PLUME: NA

Wx CONDITION:
WIND DIRECTION: SOUTH WIND SPEED: 10 MPH
AMBIENT TEMP: 85°F RELATIVE HUMIDITY: 40%



OPACITY READINGS

No.	Hr:Min.	SECONDS 0	15	30	45	AVG.
1	11 : 31	<5	<5	<5	<5	
2	: 32	<5	<5	<5	<5	
3	: 33	<5	<5	<5	<5	
4	: 34	<5	<5	<5	<5	
5	: 35	<5	<5	<5	<5	
6	: 36	<5	<5	<5	<5	<5
1	11 : 31	0	0	0	0	
2	: 32	0	0	0	0	
3	: 33	0	0	0	0	
4	: 34	0	0	0	0	
5	: 35	0	0	0	0	
6	: 36	0	0	0	0	0%

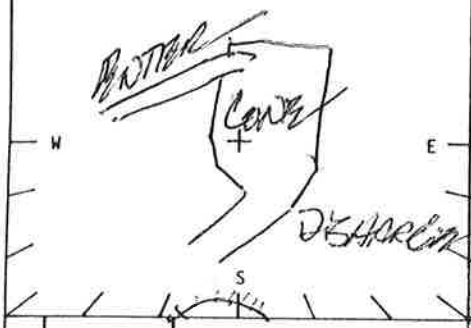
JAW CRUSHER

FEEDER

STANDARD (0BB0793)

SOURCE: CONE CRUSHER
HGHT. OF DISCH 6 FT DIMENSION NA
OPERATING PARAMETERS NORMAL (Y/N)
ACTUAL: 80 T/HOUR
DESIGN: 400 T/HOUR
CONTROL FACILITY: WATER SPRAY 3 pts
TYPE BURNER FUEL: NA
APPLICABLE REG/A.O. LIMIT/COND. MET:
SEC 4.5.1 MAR 20 % (Y/N)
Y/N
Y/N
Y/N
Y/N
ALLOWABLE EMISSION RATE NA
LAST TEST DATE NA DUE DATE NA
DISTANCE TO SOURCE 75 FEET
BACKGROUND DESCRIPTION SKY + PIT
PLUME COLOR GRAY /LENGTH 5 FEET
STEAM PLUME Y/(N) ATTACHED Y/(N)
LENGTH OF STEAM PLUME NA
WIND SPEED 10 MPH /DIRECTION SOUTH
AMB. TEMP. 85°F R.H. 40 %

3 SPRAYS

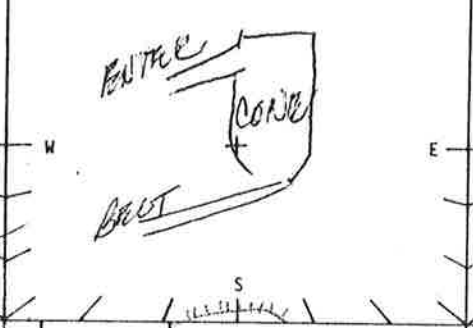


#	HR:MIN	SECONDS 0	15	30	45	AVG.
1	12:20	0	0	0	0	
2	21	0	0	0	0	
3	22	0	0	0	0	
4	23	0	0	0	0	
5	24	0	0	0	0	
6	25	0	0	0	0	0%
1	12:26	5	5	5	5	
2	27	5	5	5	5	
3	28	5	5	5	5	
4	29	5	5	5	5	
5	30	5	5	5	5	
6	31	5	5	5	5	5%

(23F1579)

SOURCE #2: CONE CRUSHER
HGHT. OF DISCH 6 FT DIMENSION NA
OPERATING PARAMETERS NORMAL (Y/N)
ACTUAL: 80 T/HOUR
DESIGN: 400 T/HOUR
CONTROL FACILITY: WATER SPRAY 2 pt
TYPE BURNER FUEL: NA
APPLICABLE REG/A.O. LIMIT/COND. MET:
SEC 4.5.1 MAR 20 % (Y/N)
Y/N
Y/N
Y/N
Y/N
ALLOWABLE EMISSION RATE NA
LAST TEST DATE NA DUE DATE NA
DISTANCE TO SOURCE 100 FEET
BACKGROUND DESCRIPTION SKY + PIT
PLUME COLOR GRAY /LENGTH 4 FT
STEAM PLUME Y/(N) ATTACHED Y/(N)
LENGTH OF STEAM PLUME NA
WIND SPEED 10 MPH /DIRECTION SOUTH
AMB. TEMP. 85°F R.H. 40 %

2 SPRAYS

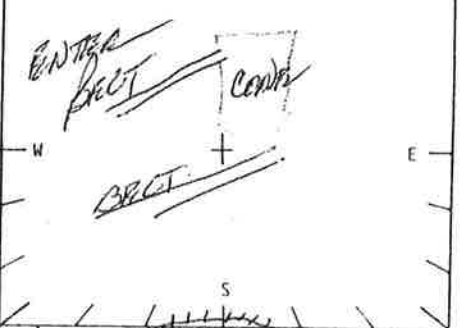


#	HR:MIN	SECONDS 0	15	30	45	AVG.
1	12:46	0	0	0	0	
2	47	0	0	0	0	
3	48	0	0	0	0	
4	49	0	0	0	0	
5	50	0	0	0	0	
6	1:51	0	0	0	0	
1	46	5	5	5	5	
2	47	5	5	5	5	
3	48	5	5	5	5	
4	49	5	5	5	5	
5	50	5	5	5	5	
6	51	5	5	5	5	

(4/61)

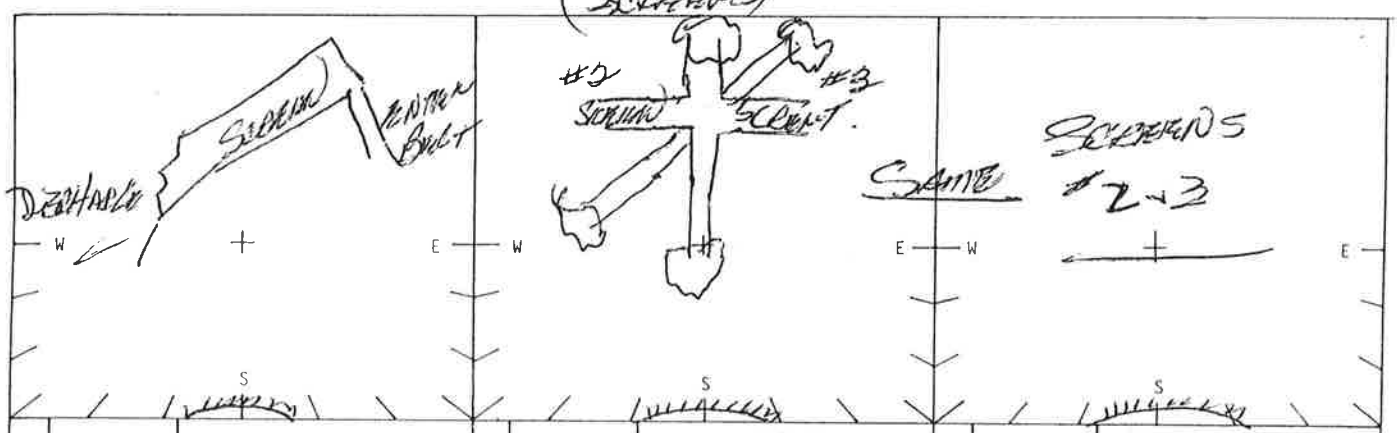
SOURCE #3: CONE CRUSHER
HGHT. OF DISCH 6 FT DIMENSION NA
OPERATING PARAMETERS NORMAL (Y/N)
ACTUAL: 60 [redacted] T/HOUR
DESIGN: 300 T/HOUR
CONTROL FACILITY: WATER SPRAY (inside)
TYPE BURNER FUEL: NA
APPLICABLE REG/A.O. LIMIT/COND. MET:
SEC 4.5.1 MAR 20 % (Y/N)
Y/N
Y/N
Y/N
Y/N
ALLOWABLE EMISSION RATE NA
LAST TEST DATE NA DUE DATE NA
DISTANCE TO SOURCE 100 FEET
BACKGROUND DESCRIPTION SKY + PIT
PLUME COLOR GRAY /LENGTH 30'
STEAM PLUME Y/(N) ATTACHED Y/(N)
LENGTH OF STEAM PLUME NA
WIND SPEED 10 MPH /DIRECTION SOUTH
AMB. TEMP. 85°F R.H. 40 %

1 SPRAY (BOTTOM)



#	HR:MIN	SECONDS 0	15	30	45	AVG.
1	1:04	0	0	0	0	
2	06	0	0	0	0	
3	07	0	0	0	0	
4	08	0	0	0	0	
5	09	0	0	0	0	
6	1:10	0	0	0	0	0%
1	1:04	5	5	5	5	
2	05	5	5	5	5	
3	06	5	5	5	5	
4	07	5	5	5	5	
5	08	5	5	5	5	
6	09	5	5	5	5	5%

	#1	#2	#3
	4310692	34J0388	3420489 PAGE 3
SOURCE:	SCREEN	SCREEN	SCREEN
HGHT. OF DISCHG	8FT	8FT	8FT
DIMENSION	6X20'	6X16'	6X16'
OPERATING PARAMETERS NORMAL (Y/N)			
ACTUAL	600 [redacted] T/HOUR	120 [redacted] T/HOUR	120 [redacted] T/HOUR
DESIGN:	500 T/HOUR	400 T/HOUR	400 T/HOUR
CONTROL FACILITY	1EA WATER SPRY	1EA WATER SPRY	1EA WATER SPRY
TYPE BURNER FUEL:	NA	NA	NA
APPLICABLE REG/A.O. LIMIT/COND. MET:	SEC 4.5.1 NACE 20% (Y/N)	SEC 4.5.1 NACE 20% (Y/N)	SEC 4.5.1 NACE 20% (Y/N)
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
ALLOWABLE EMISSION RATE	NA	NA	NA
LAST TEST DATE / DUE DATE	NA / NA	NA / NA	NA / NA
DISTANCE TO SOURCE	100 FEET	100 FEET	100 FEET
BACKGROUND DESCRIPTION	PIT + SKY	PIT + SKY	PIT + SKY
PLUME COLOR / LENGTH	INV / NA	INV / NA	INV / NA
STEAM PLUME Y/(N)	ATTACHED Y/(N)	STEAM PLUME Y/(N)	ATTACHED Y/(N)
LENGTH OF STEAM PLUME	NA	NA	NA
WIND SPEED / DIRECTION	10 MPH / SOUTH	10 MPH / SOUTH	10 MPH / SOUTH
AMB. TEMP.	85°F R.H. 40 %	85°F R.H. 40 %	85°F R.H. 40 %



#	HR:MIN	SECONDS 0	15	30	45	AVG.
1	11:46	0	0	0	0	
2	47	0	0	0	0	
3	48	0	0	0	0	
4	49	0	0	0	0	
5	50	0	0	0	0	
6	51	0	0	0	0	0%
1	52	0	0	0	0	
2	53	0	0	0	0	
3	54	0	0	0	0	
4	55	0	0	0	0	
5	56	0	0	0	0	
6	57	0	0	0	0	0%

#	HR:MIN	SECONDS 0	15	30	45	AVG.
1	12:02	0	0	0	0	
2	03	0	0	0	0	
3	04	0	0	0	0	
4	05	0	0	0	0	
5	06	0	0	0	0	
6	07	0	0	0	0	0%
1	12:09	0	0	0	0	
2	10	0	0	0	0	
3	11	0	0	0	0	
4	12	0	0	0	0	
5	13	0	0	0	0	
6	14	0	0	0	0	0%

#	HR:MIN	SECONDS 0	15	30	45	AVG.
1	12:03	0	0	0	0	
2	04	0	0	0	0	
3	05	0	0	0	0	
4	06	0	0	0	0	
5	07	0	0	0	0	
6	08	0	0	0	0	0%
1	12:09	0	0	0	0	
2	10	0	0	0	0	
3	11	0	0	0	0	
4	12	0	0	0	0	
5	13	0	0	0	0	
6	14	0	0	0	0	0%

SOURCE: Storage Piles
HGHT. OF DISCHG NA DIMENSION NA

OPERATING PARAMETERS NORMAL (Y/N)
ACTUAL: NA
DESIGN: NA
CONTROL FACILITY: Wet material - water
TYPE BURNER FUEL: NA

APPLICABLE REG/A.O. LIMIT/COND. MET:
Sec 4.5.2 UACR (min) Y/N
Y/N
Y/N
Y/N
Y/N

ALLOWABLE EMISSION RATE NA
LAST TEST DATE NA DUE DATE NA
DISTANCE TO SOURCE 125 Feet
BACKGROUND DESCRIPTION Blue Sky
PLUME COLOR NA /LENGTH NA
STEAM PLUME Y/N ATTACHED Y/N
LENGTH OF STEAM PLUME NA
WIND SPEED 10 MPH /DIRECTION South
AMB. TEMP 85°F R.H. 40 %

SOURCE: Roads (yard area)
HGHT. OF DISCHG NA DIMENSION NA

OPERATING PARAMETERS NORMAL (Y/N)
ACTUAL: NA
DESIGN: NA
CONTROL FACILITY: MgCl / water Paved
TYPE BURNER FUEL: NA

APPLICABLE REG/A.O. LIMIT/COND. MET:
Sec 4.5.2 UACR (min) Y/N
Dust Control Plan - #1 Y/N
Water Spray Y/N
Chemically Treated Y/N
Y/N

ALLOWABLE EMISSION RATE NA
LAST TEST DATE NA DUE DATE NA
DISTANCE TO SOURCE Varied -
BACKGROUND DESCRIPTION Equip Sky Pit
PLUME COLOR Tan /LENGTH NA
STEAM PLUME Y/N ATTACHED Y/N
LENGTH OF STEAM PLUME NA
WIND SPEED 10 MPH /DIRECTION South
AMB. TEMP 85°F R.H. 40 %

SOURCE: Conveyer Drop Pnts
HGHT. OF DISCHG Varied DIMENSION ___

OPERATING PARAMETERS NORMAL (Y/N)
ACTUAL: 400 tons/Hr
DESIGN: 400 Tons/Hr.
CONTROL FACILITY: Water - pre sock
TYPE BURNER FUEL: NA

APPLICABLE REG/A.O. LIMIT/COND. MET:
Sec 4.5.1 UACR 20% Y/N
Y/N
Y/N
Y/N
Y/N

ALLOWABLE EMISSION RATE NA
LAST TEST DATE NA DUE DATE NA
DISTANCE TO SOURCE Varied -
BACKGROUND DESCRIPTION Eq-Sky-Hill Pit.
PLUME COLOR Tan /LENGTH NA
STEAM PLUME Y/N ATTACHED Y/N
LENGTH OF STEAM PLUME NA
WIND SPEED 10 MPH /DIRECTION South
AMB. TEMP. 85°F R.H. 40 %

NA

W No Blowing Dust observed from any storage or

#	HR:MIN	SECONDS 0	15	30	45	AVG.
1	Raw material					
2						
3	Piles					
4						
5	Wind Blowing					
6	from South					
1						
2	At 10 MPH					
3						
4						
5						
6						

0% - 10:45 AM
0% 1PM

NA

W All roads and most of pit area is being water sprayed

#	HR:MIN	SECONDS 0	15	30	45	AVG.
1	Very little dust					
2						
3	Being generated by					
4	mobile equipment					
5						
6	Water truck was					
1	continuously sprinkling					
2	during inspection					
3						
4	Access road is paved					
5						
6	Yard and most of all pit roads were damp.					

NA

W Conveyer belts and transfer pnts stacker

Cannon equipped water truck on hand.

#	HR:MIN	SECONDS 0	15	30	45	AVG.
1	1:36	0	0	0	0	
2	37	0	0	0	0	
3	38	0	0	0	0	
4	39	0	0	0	0	
5	40	0	0	0	0	
6	41	0	0	0	0	0%
1	1-46	0	0	0	0	
2	47	0	0	0	0	
3	48	0	0	0	0	
4	49	0	0	0	0	
5	50	0	0	0	0	
6	51	0	0	0	0	0%

SOURCE: Grizzly
HGHT. OF DISCHG 10 FT DIMENSION NA

OPERATING PARAMETERS NORMAL (Y/N)
ACTUAL: 400 Tons/Hour
DESIGN: More if Needed
CONTROL FACILITY: Pre Soak
TYPE BURNER FUEL: NA

APPLICABLE REG/A.O. LIMIT/COND. MET:
Section 4.5.2 NACR (min) Y/N
Y/N
Y/N
Y/N
Y/N

ALLOWABLE EMISSION RATE NA
LAST TEST DATE NA DUE DATE NA
DISTANCE TO SOURCE 100 Feet
BACKGROUND DESCRIPTION Pit Sky
PLUME COLOR NA /LENGTH NA
STEAM PLUME Y/N ATTACHED Y/N
LENGTH OF STEAM PLUME NA
WIND SPEED 10 MPH /DIRECTION South
AMB. TEMP 85°F R.H. 40 %

SOURCE: Mobile Equipment
HGHT. OF DISCHG NA DIMENSION NA

OPERATING PARAMETERS NORMAL (Y/N)
ACTUAL: NA
DESIGN: NA
CONTROL FACILITY: 10% Plus Moisture
TYPE BURNER FUEL: NA

APPLICABLE REG/A.O. LIMIT/COND. MET:
Sec 4.5.2 NACR (min) Y/N
Y/N
Y/N
Y/N
Y/N

ALLOWABLE EMISSION RATE NA
LAST TEST DATE NA DUE DATE NA
DISTANCE TO SOURCE Varied
BACKGROUND DESCRIPTION Pit-Hill Equip
PLUME COLOR LTT /LENGTH NA
STEAM PLUME Y/N ATTACHED Y/N
LENGTH OF STEAM PLUME NA
WIND SPEED 10 MPH /DIRECTION South
AMB. TEMP. 85°F R.H. 40 %

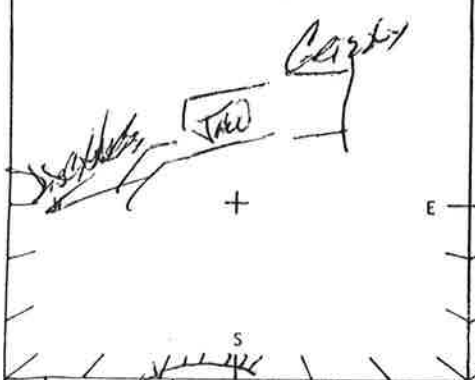
SOURCE: Dust Control Plan
HGHT. OF DISCHG NA DIMENSION NA

OPERATING PARAMETERS NORMAL Y/N
ACTUAL: NA
DESIGN: NA
CONTROL FACILITY: NA
TYPE BURNER FUEL: NA

APPLICABLE REG/A.O. LIMIT/COND. MET:
Water System Y/N
10,000 Water Tank Y/N
Water to Crushers Y/N
Water Stock Piles Y/N
Clean Haul Roads Y/N

ALLOWABLE EMISSION RATE
LAST TEST DATE DUE DATE
DISTANCE TO SOURCE
BACKGROUND DESCRIPTION
PLUME COLOR /LENGTH
STEAM PLUME Y/N ATTACHED Y/N
LENGTH OF STEAM PLUME
WIND SPEED /DIRECTION
AMB. TEMP. R.H. %

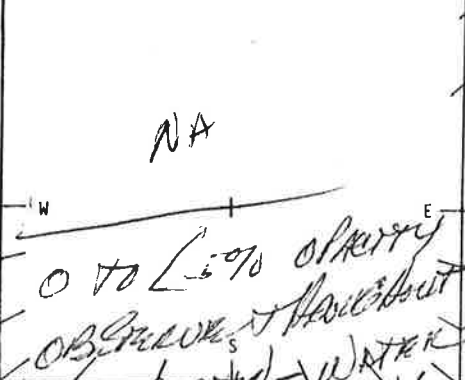
Feeder - Part of Jaw Crusher



#	HR:MIN	SECONDS 0	15	30	45	AVG.
1	11:29	0%				
2	11:57	0%				
3	12:16	0%				
4						
5						
6						
1						
2						
3						
4						
5						
6						

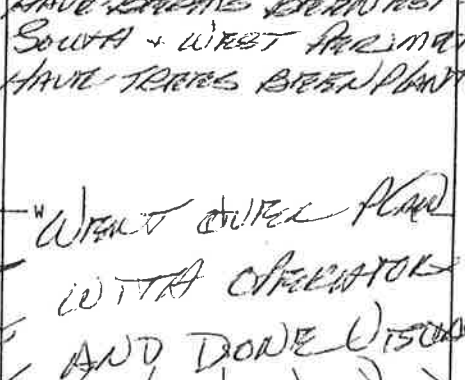
No Emissions Noted During Dumping Into Grizzly
Pre Soaked

NA



0 to <5% Opacity Observed Throughout Inspection - Water Truck Controlling Travelled Yard Area
Pre Soak Material Controlling Dumping
Engine Emission For Travel 0% Emission

Have Berms Been Test Y/N
South + West Perimeters Have Trees Been Planted Y/N



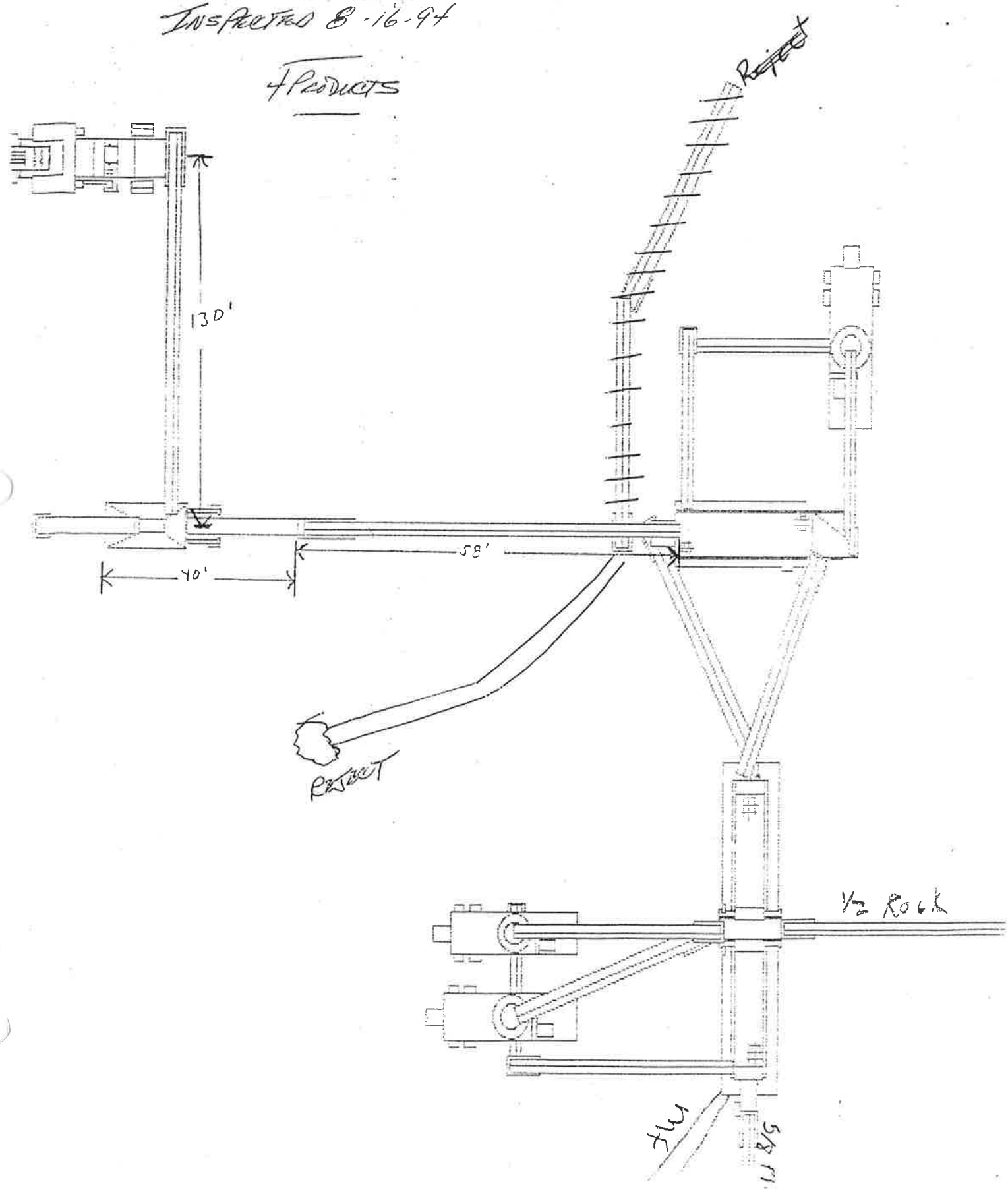
Went Over Plan With Operator And Done Visual Inspection - What Was Supposed To Be Done Up Present, Has Been Done
1:30 PM - 8-16-94

Throughout the Cedarapids Plant Simulator, everything has been done to provide as accurate information as possible regarding equipment and related material. However, various factors can affect ratings and actual results. Therefore, data produced should be considered as resulting from theoretically perfect conditions rather than actual field results.

Maguire Pit Set up 1994

INSPECTED 8-16-94

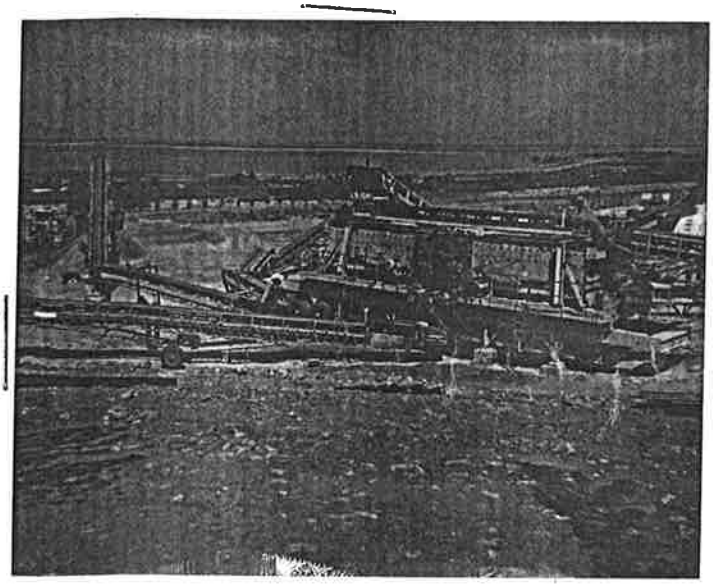
+ PRODUCTS

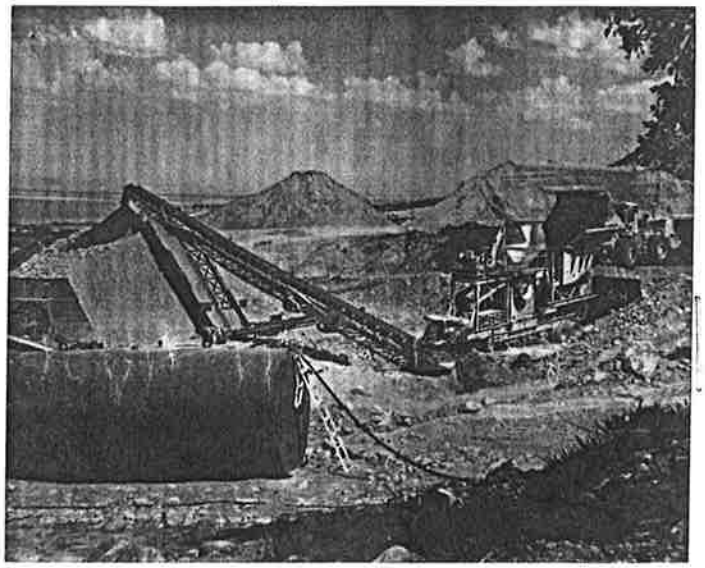


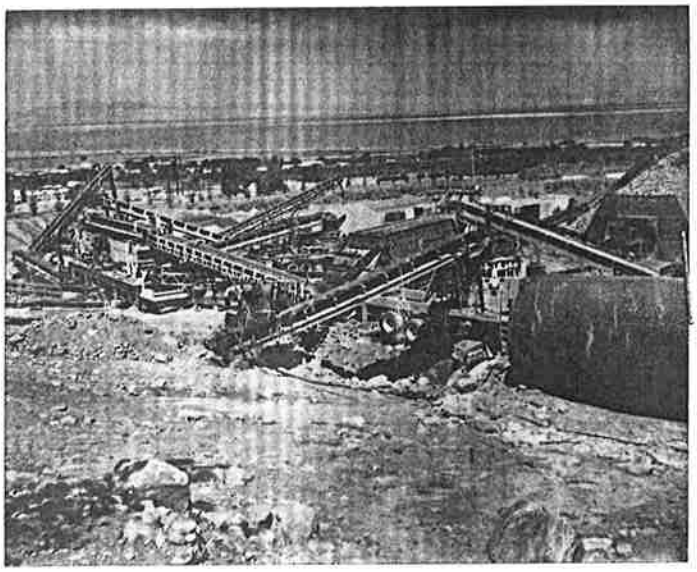
Notes & Comments

Page ____ of ____

Date _____







Jack B. Parson's crushing operation, McQuarrie Co. Box Elder County, August 16, 1994, 1 pm, 400 tons per hour.