

Parish Cudgen.

ML46.

Plant John Oxley, dredging in an easterly direction along Cudgen Creek in 1.2%HM. Depth of mining about 35' below surface level, discharge water remains clear. Negotiations proceeding with Cudgen RZ Ltd., to obtain adjacent leases held by the latter company.

Parish Cudgen.

OCTOBER 1970

ML46, ML24 & PML22.

Agreement has been reached with Cudgen R. Z. Ltd., to permit mining within portions ML24 & PML22 and dredging has commenced in ML24, advancing east to the boundary of Tourist Road 4028. The dredge pond is being maintained at a depth of about 65' below surface level and mineral values appear to average about 1.5%HM.

Parish Cudgen

SEPTEMBER 1970

ML46

Plant John Oxley, dredging along the western boundary of PML22, in clean sand. Values running about 1.2%HM, at a depth of some 30'. Reshaping of tailings has commenced behind this operation. Complaint re pollution of Cudgen Creek investigated and found groundless, separate report forwarded.



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DILLINGHAM CONSTRUCTIONS.

JANUARY 1971

Parish Cudgen SLA562 Murwillumbah Portion ML11.

Plant Hamilton Hume is dredging in a southerly direction along the eastern side of Tourist Road 4028 and approaching the southern boundary of ML11. Average head feed runs to 1.5% heavy mineral and the operation is proving beneficial to the company. Restoration is well under way and a number of bare patches will benefit from the addition of fertiliser which will be carried out within the next few weeks.

DILLINGHAM MINING COMPANY.

FEBRUARY 1971

Parish Cudgen, SLA562 Murwillumbah, Portion ML11.

Dredging has reached the southern boundary of this area and mining is now advancing in an easterly direction prior to the plant moving northwards along the frontal section. Good mineral values to 2% HM are being encountered, restoration well up to operation.

ML11.

APRIL 1971

Dredging advancing north along the frontal section, values about 2% HM although gradually falling off. Reshaping and soiling well up to operation.

Parish Cudgen, County Rous.
SLA562, Murwillumbah.

JULY, 1971.

Plant Hamilton Hume has reached the northern boundary of this area and is at present moving westward to commence mining operations within areas held by Associated Minerals Consolidated Ltd. Tailings stacked adjacent to the point of commencement of this operation have now been filled back into the pondage and rehabilitation is well up to this operation.

ML11.

OCTOBER 1970

Plant Hamilton Hume moving south along the western side of the area along the boundary of Tourist Road 4028. Average grade 1.5%HM, restoration well up to operation.

SIA562 MURWILLUMBAH.

NOVEMBER, 1970.

Portion ML11.

Plant Hamilton Hume is advancing south along the western side of this area adjacent to Tourist Road 4028. Heavy mineral grades averaging about 2% and this operation appears quite economical. Earthleakage protection on this plant is at present undergoing replacement.

Parish Cudgen.

NOVEMBER? 1970.

ML46, ML24 & PNE22.

Dredging advancing south along Tourist Road 4028 within portion 24. Good standback distance being maintained between dredging operations and road and top soil being retained between edge of dredge pond and road edge.

GL20.

AUGUST 1970

Dredging is advancing south to the boundary of this area, dredging depth about 25' on a narrow face. Heavy mineral values 1.2%, it is planned to increase the capacity of this plant within the next few weeks. Earthmoving equipment catching up back lag of restoration.

GL20

SEPTEMBER 1970

Plant Hamilton Hume moving west along the northern boundary of portion ML11 and dredging out a tailing water dam for future operations in this area. Trouble was experienced during the early weeks of the month and this plant grounded in the dredge pond. Values about 1.2%HM. Restoration back lag being rectified.

A number of complaints by the AWU organiser in this area were investigated and referred to the company for action. Approval for the erection of amenities at mining plants in the vicinity of the main plant is being sought from the Chief Inspector, and the existing amenities at the main plant are being up-graded.

Portions ML46, PML's 22 & 24 etc.

JANUARY 1971

Dredging advancing in a southerly direction along the western side of Tourist Road 4028 at a depth of about 60' below surface level. Average head feed 1.5% heavy mineral although some 20' to 30' of overburden is almost barren. Topsoiling of a large area of reshaped tailings is well in hand and brushing of two large stock piles of sand retained to fill the dredge pond on completion of operations, is well under way. A complaint received from the Tweed Shire Council stating that a sand wall on the edge of the operation was restricting the flow of Cudgen Creek is at present being investigated.

Portions ML's 46, PML's 22, 24 etc.

FEBRUARY 1971

Dredging is advancing south along Tourist Road 4028 at a depth of up to 70' below surface level. Mineral grades average 1.5% HM and extensive earthmoving is required to continue this operation. A complaint from the Tweed Shire Council re the obstruction of Cudgen Creek with sand from adjacent mining operations was investigated and the situation corrected. Large piles of sand remaining to fill the dredge pond on completion of operations are being progressively brushed.

DELLINGHAM MINING COMPANY.

MARCH 1971

Parish Cudgen ML46 ML24 GL11.

Dredging operations are continuing in a southerly direction along Tourist Road 4028 within GL11 and ML24. Mining is proceeding at a depth of about 70' to 80', topsoil is being stacked along the western edge of the road to provide protection to passing traffic from the dredge pond which although extensive is being kept as small as practicable. Following a complaint from the Tweed Shire Council a retaining wall along the edge of Cudgen Creek has been removed and a considerable quantity of sand within the creek proper has been bulldozed onto the lease area. Water from the creek is now passing through a dredge pond remaining from these mining operations with the intention that sand will pass from the creek into the excavation. This open section will be reshaped and resoiled as soon as possible.

DELLINGHAM MINING.

APRIL 1971

Parish Cudgen.
ML46, GL21 etc.

Dredging continues in this locality, resoiling and reshaping of the area adjacent to Cudgen Creek is in hand. The excavation now located along the southern bank of the creek bed is gradually filling with sand from tidal movement.

AUGUST, 1971.

Parish Cudgen, GL18, ML24, GL11.

Plant John Oxley continues to advance a south easterly direction along Tourist Road 4028 in values to 2% heavy mineral. Part of a large section of tailings retained to fill the dredge pond on completion of mining operations are being spread over the surrounding surface and will be topsoiled to protect blow off into Cudgen Creek. Discharge water from this operation into Cudgen Creek is kept under constant surveillance by the mining company and no further complaints have been received.

Portions ML11, FML4

Dredging has reached the northern boundary of ML11 and is on the point of entering Portion FML4, an area to be mined under agreement with Associated Minerals Consolidated Ltd. Mining is continuing on a front about 1½ chains in width and at a depth of about 15' below surface level. Rehabilitation is proceeding satisfactorily and it is anticipated that the existing couch will strike well over the area during the coming Spring.

Parish Cudgen FML4

September 71

Plant Hamilton Hume is dredging north within this area under agreement with Associated Minerals and is advancing parallel and adjacent to Tourist Road 4028. Head feed is averaging about 1.55% heavy mineral and it is accepted that this operation is probably making a small profit. Rehabilitation is fairly well up to the operation and resoiling is proceeding preparatory to sowing this area when weather conditions are favourable. This plant was inspected by Mr. Inspector D. Simpson during the period.

GL18

Dredging is continuing in a southerly direction at a depth of about 70' below surface level in values of about 2% heavy mineral. A large reserve dune of material retained to fill the final dredge pond for this operation has been temporarily levelled and top soiled to prevent blow off into adjacent Cudgen Creek.

December 1971

Parish Cudgen, PML4.

Mining within this area is proceeding under agreement with Associated Minerals and dredging plant Hamilton Hume is moving north on a front approximately three chains in width on the eastern side of Tourist Road 4028. Rehabilitation in this area has been dragging and this matter has been taken up with the management. As a result earth moving equipment has been working around the clock and the plant and the buildings within PML2 have been cleaned up and placed in a more presentable condition. Management responsibilities within the organisation have been reorganised and it is hoped that the situation will continue to improve.

GL18.

Dredging in this area is continuing at a depth of about 70' and forward progress is very slow. Throughput runs to about 100 tons an hour and grades $1\frac{1}{2}\%$ to 2% heavy mineral.. Earthmoving in the area is lagging and this matter is to be rectified.

PML40

The dredge pond remaining from mining operations within this area was left open at the request of the landowner and an inspection was carried out in company with representatives of the Dillingham Mining Company and Mr. & Mrs. Q. Saunders, landowners. This dredge pond will be moved some chains further to the west and surrounds will be resoiled and vegetated to the satisfaction of this Department. This work will commence during mid January, 1972 and will be expedited. Mr. Saunders claimed that an agreement had been entered into with the N.S.W. Rutile Mining Company regarding compensation and for the area to be fenced, however he has been informed that this is a matter of personal negotiation with the Company.

DILLINGHAM MINING COMPANY.

January 72

Parish Cudgen, PML's 4 & 5

Extensive earth moving and resoiling has been carried out by the company during the month and the work of restoration is well up behind the mining operation. Areas are progressively being seeded and fertilised as soil is replaced and existing conditions are very satisfactory for a good strike.

GL18, ML22.

Dredging is continuing in a southerly direction at a depth of about 50-60 Ft. in grades to 2% heavy mineral. The larger tailing pile which had been retained to fill the dredge pond has been temporarily levelled and covered with trash from the trommel screen to stabilise the surface and this will be planted to give a temporary stabilisation. Extensive earth moving has also been carried out by the company within this area and the surrounds have a more work like appearance.

PML2

The plant site and office surrounds have been cleaned up and painting of the building in this area is proceeding. It is apparent that the company is endeavouring to improve its image with the public and the improvement is gratifying.

DILLINGHAM MINING COMPANY.

February 72

Parish Cudgen, FML's 4 & 5

Rehabilitation is well up to the operation however recent sowings of grasses have been seriously affected by cyclone "Daisy" and it may be necessary to resow a considerable area which previously had shown good growth.

GL18, ML22.

Dredging is continuing in a south westerly direction. Rehabilitation is well up to the operation but has also been damaged by cyclone "Daisy".

DILLINGHAM MINING COMPANY.

March 72

Parish Cudgen, FML's 4 & 5.

Areas east of the road within FML's 4 & 5 have now been seeded on two occasions and the growth destroyed by cyclonic or gale force wind. The company is at present placing a strip of brushing to retain sand within the area and the hind surfaces have again been seeded with cereal rye, Rhodes, and couch grasses with a sod seeder. This area was inspected in company with Mr. B. Watt and instructions were given to the company to continue the brushing along the road and over the surface until such time as sufficient growth had developed to prevent sand drift. Earth moving is well up to this operation and provided weather conditions moderate rehabilitation should proceed satisfactorily.

ML22, ML18 etc.

Earthmoving is well up to this operation. Recently seeded surfaces have been damaged by cyclonic and gale force winds and it will be necessary to again seed these surfaces to establish a good growth.

FML38.

A dredge has now been placed in this area to move the existing dredge pond west of its present location. This lease has expired but it has been recommended that the guarantee deposit be retained until such time as rehabilitation has reached a satisfactory standard.

THE DILLINGHAM MINING COMPANY.

April 72

FML's 4, 5, 6 & 7 Parish Cudgen.

During inspection carried out in company with Mr. Watt, Soil Conservation Service, Kempsey on 15.3.72 instructions were given to the company to continue brushing a recently seeded area to ensure stabilisation of the surface during periods of strong wind. This work was carried out only in part and the cover crop which was showing well prior to Easter suffered serious damage during cyclone "Emily" which occurred over the Easter period. When again inspected on 6.4.72 it was found that sand and surface material was blowing in a westerly direction across Tourist Road 4028 and causing public nuisance. The company was instructed to immediately stabilise the area by brushing or covering the surface with hay and that unless immediate steps were taken to stabilise the area that dredging operations must cease. A separate report regarding this matter has been forwarded.

THE DILLINGHAM MINING COMPANY.

May 72

Parish Cudgen, County Rous. ML11, PML's 4,5,6 & 7.

Plant Hamilton Hume dredging in a northerly direction on the eastern side of Tourist Road 4028 at a depth of approximately 65' below surface level on a face approximately 5 chains in width. This plant is generally in satisfactory mechanical condition, repairs have been carried out to the roof and general maintenance is carried out from time to time. Heavy mineral values range from 1 to 2%, rehabilitation well up to the operation, and brushing being maintained between this operation and the edge of the road.

THE DILLINGHAM MINING COMPANY.

July 72

Parish Cudgen, County Rous.
PML40

This lease expired some months ago, however rehabilitation is continuing and the existing dredge pond is being shifted to the north west corner of the area, under agreement with the owner. Pumping has almost been completed and the exposed sand will be topsoiled and rehabilitated to the requirements of this Department.

ML11

A small number of bare areas which have shown poor or no growth are now gradually covering with natural couch and rhodes grass previously planted. A later application of fertiliser will prove helpful. Tree planting is being carried out by progressive basis.

PML's 4, 5, 6, 7, & 8.

Mining operations are now proceeding northward in PMLs towards the old workshop area controlled by Associated Minerals. Earthmoving is being kept well up to the operation and the topsoil is being progressively seeded with recommended species as the operation advances. Although the present situation is satisfactory this area requires careful supervision as the areas involved are large and very exposed. Tree planting has been carried out on the eastern sides of these leases on areas unaffected by the present operations.

PML22

Dredging by plant John Oxley continues in a southerly direction in values up to 2% heavy mineral. Throughput about 200 cubic yards per hour.

ML46, GL11, ML's 15 & 24.

Plant John Oxley moving in a south westerly direction towards the northern section of PML22, dredging at a depth of about 50' in 2% heavy mineral. The future mining path for this plant has not as yet been programmed and will depend on the further operation of plant Hamilton Hume, east of this area.

Parish Cudgen, ML11, PML's 4, 5, 6, 7, & 8.

June 1972

The dredging path has narrowed to about 3 chains in width and mining is being continued at depth of about 65' below surface level. Mineral values have also improved from the previous month and head feed runs about 1.75% heavy mineral. Rehabilitation is well up to the operation and the top soil is being seeded as soon as replaced. Tree planting is being progressively carried out as areas become stabilised and many thousands of trees have been planted since the last Bi-annual inspection. The situation is generally satisfactory however it is not expected that much growth will take place until the spring.

ML46, GL11, ML's 15 & 24, PML22. Parish Cudgen

Plant John Oxley is advancing south within PML22 in head feed averaging about 1.75% heavy mineral, at a depth of about 60'. Rehabilitation is being maintained as close as possible to this mining operation and tree planting is being progressively carried out over stabilised surfaces.

Parish Cudgen, County Rous.

DL1203, DL1205, DL1200. DL1206, PML4, PML5, PML6, PML7, PML8.

Plant Hamilton Hume continued dredging operations in this area, moving north through portion ML11 then swinging west in portions PML4 and moving north along a front about 2 chains in width along the eastern boundary of Tourist Road 4028 through portions PML's 5, 6, & 7 and crossing the southern boundary of portion PML8. Grades ranged from 1% HM and dredging was carried out at a depth of from 50' to 60' below surface level.

Two cyclones and continued gale force winds during the period from January to May, 1972 seriously damaged rehabilitation and it was necessary to continually seed and plant some areas. Earthmoving has been maintained well up to the operation and tree planting is progressive.

THE DILLINGHAM MINING COMPANY.

SL97, PL998, ML15, GL18, FML22.

Plant "John Oxley" dredged through portion ML15, south into portion GL18 and reached the centre of FML22. Dredging was maintained on a front about 2 chains in width at a depth of approximately 60' below surface level, head feed in the vicinity of 2¹/₂ MI. Operations will continue south into portion FML10.

SLA515. Murwillumbah. (N.S.W. Rutile Mining Co.)

Portions 220, 5, 10.

Plant "Robert Burke" previously operated within the Coolangatta Aerodrome under agreement with the Department of Civil Aviation and the Commonwealth Government was transported into this area preparatory to commencement of mining operations within portion 220.

PMLA515 Murwillumbah. Portion 220
Parish Cudgen.

July 72

A small open cut has been developed at the rear of Mr. Andrews house, extending to a depth of about 18'. The mining area is covered with a heavy layer of topsoil and peat with brown sand and gravel over the last 6' to 8'. The operation is being carried out using a stationary dredge and cutter head to pump feed from a central sump. Material is push loaded to the sump using a D9 Bulldozer. Water from the operation is retained in several settling ponds and then emitted to filter and return to Cudgen Creek approximately half a mile distant. All water returning to the creek is clean.

PMLA515, Murwillumbah. Portion 220

Mining operations are proceeding through Mr. Andrews' property in a north easterly direction, mineral values are in the vicinity of 8 - 10% heavy mineral, although heavy muds and stones are making the operation difficult. Mining operations are proceeding satisfactorily, possibly as the affected owners are also owners of the mineral being mined.

PML40

This lease has expired however rehabilitation has been carried out to the standard required by this Department. The area was inspected in company with the landowner, Mrs. G. Saunders, on the morning of 28.9.72. The existing dredge pond has now been located in the north western corner of the area and the surrounding land has been pumped to the level required. Remaining tailings are to be recoiled and the area planted out with recommended grasses. Although the work is proceeding slowly the situation appears satisfactory at this stage.

PMLA515 Murwillumbah .
N.S.W. Rutile Mining Company.

October 72

Mining operations have passed from portion 220 through portion 10, have jumped the northern Council road and have returned and are now proceeding in a westerly direction through to 220. Mining is being carried out under agreement with surrounding landowners, rehabilitation is well up to the operation and mining operations are proceeding satisfactorily. A large section of the area mined was previously swamp which is now drained and is of benefit to the landowners. Muds and residues are being contained within settling ponds and all water is filtered through reed beds prior to return to Cudgen Creek.

PMLA515 Murwillumbah etc.

January 73

Mining is almost completed within Portion 220 and the sanitary depot under the control of the Tweed Shire Council. Recharging in this area has proven very satisfactory and the existing drains have been cleaned out and returned to the satisfaction of local landowners. This operation should be completed within a period of three weeks and it is planned that the plant will be transferred to the Wardell area north of Broadwater.

BILLINGHAM MINING COMPANY.

Parish Cudgen PML 4, 5, 6, 7 & 8.

September 72

Dredging operations are moving north through PML8 and are fast approaching the old Associated Minerals Consolidated Ltd., workshop adjacent to the road. Heavy mineral values are running a bit better than 2% and the operation is proving a fair money spinner. Although sections of cover crop have failed during recent months within PML's 7 & 6 there are indications of a good strike of rhodes and other grasses over the mined surfaces. Earthmoving is being maintained well up to the operation and seeding is progressive with mining.

PML's 22 & 10

Plant John Orley continues to move south along a dredge path approximately three chains in width at a depth of about 65'. Contouring of tailings is under way and seeding will commence as soon as topsoil is replaced. A number of bare sections north of the operation within PML15 & PML18 are to be repaired simultaneously.

BILLINGHAM MINING COMPANY.

October 72

Parish Cudgen, County Rous.
PML's 4, 5, 6, 7, & 8.

Dredging is being carried out immediately east of the Associated Minerals workshop area within PML8. Earthmoving is well up to the operation and seeding is being carried out immediately top soil is returned. A number of bare areas south of this operation have been reseeded and it is hoped to obtain a good strike following recent beneficial rains.

PML32, PML10.

Mining operations are entering the northern section of PML10 and dredging is being carried out at a depth of about 65' on a front 2½ chains in width. Earthmoving is well up to the operation and seeding is progressive. A number of bare areas remaining within PML18 and PML15 have also been reseeded and should show favourable growth following recent rains.

REHABILITATION.

October 72

Some delay has occurred in replanting bare areas in the Cudgen District and the progressive planting of various types of trees and shrubs over mined surfaces. This matter has been discussed with Mr. Everson during the month and steps are now being taken to construct a new plant nursery and have an organised rehabilitation crew available to carry out this type of work. The progress of the company in this regard will be watched with interest.

USE OF MIBIKYL BROMIDE.

Inspections have been carried out at the Billingham Mining Company's Laboratories at Cudgen and Woodburn and at Cudgen RE Ltd's laboratory at Cudgen. The Billingham Mining Company, at both plants, has established a fume type enclosure with sliding glass access which is evacuated with an overhead power operated exhaust fan. Ventilation in this case is positive and operating conditions for laboratory staff very satisfactory. The installation at Cudgen RE was fitted with an exhaust fan at bench level but was not completely enclosed. The management has been requested to take the necessary steps in this regard.

THE DILLINGHAM MINING COMPANY.

November 72

Parish Cudgen, County, Rous.
PML'S 22 & 10.

Plant John Oxley is dredging in a southerly direction at a depth of about 65' below surface level in grades running to 1.8% heavy mineral. Rehabilitation is well up to the operation although recent seeding has been affected by gale force winds. The water settling dam at present in use is rapidly becoming silted and instructions were given to construct an alternate settling area. This operation is programmed to continue for a further six months however the end life will be dependent on whether the road north from Cabarita is to be mined by this company.

PML'S 4, 5, 6, 7, & 8.
Parish Cudgen, County Rous.

Dredging is continuing in a northerly direction along the eastern side of Tourist Road 4028 and is skirting the workshop buildings previously occupied by Associated Minerals Consolidated Ltd.,. Earthmoving is as close as possible to the mining operation, however the surface material is of very poor quality, consisting mostly of sand and revegetation will be difficult. Recent seeding along the mining path has been badly affected by gale force winds, however it is hoped with reasonable weather conditions that regrowth will occur. The situation is being closely watched and if necessary the company will be instructed to mulch the surface to reduce sand drift.

THE DILLINGHAM MINING COMPANY.

January 73.

Parish Cudgen
PML's 4, 5, 6, 7, & 8

Dredging is advancing in a northerly direction towards the northern boundary of PML8 in good values immediately east of Tourist Road 4028. Some 3,000 bales of hay have been delivered to site and mined surfaces showing little growth are to be reseeded and progressively mulched.

Mining operations recommenced on 15.1.73 following a four week Christmas shut down period.

PML's 22 & 10.

Mining operations resumed on 15.1.73 after the Christmas shut down period and dredging is advancing in a southerly direction on a front about 3 chains in width. Earthmoving has been maintained well up to the operation and previously seeded areas are showing some satisfactory development.

Annual Rpt 71-72.

THE DILLINGHAM MINING COMPANY

Mining operations continued at Cudgen and Woodburn. Further extensions were carried out to offices at both centres to accommodate additional staff, however rising costs have more recently forced some reduction of the work force.

Long term contracts have provided some security of operation and this company was not directly affected by the slump in rutile prices. The company continues to refine low grade areas at Cudgen and as such mining is on a break even basis every endeavour has been made to reduce costs. Cyclonic conditions severely affected a large area of rehabilitation at Cudgen and continued re-seeding and planting was necessary to ensure satisfactory growth. Rehabilitation was generally to the standard required and an extensive tree planting programme was commenced.

THE DILLINGHAM MINING COMPANY.

June 1973.

Parish Gudgen PML's 8 & 9

Dredging within this area is proceeding as programmed in a northerly direction east of Tourist Road 4028. Earthmoving operations are well up to the mining operation and re-soiled sections are being progressively reseeded with selected species. This company is at present using a forage harvester to obtain mulch and this material is then spread over the seeded surfaces. The company nursery is developing well and locally grown material has already been planted south of this area. Mineral values have slightly improved during recent months and average head feed would be in the vicinity of 1.5% heavy mineral.

PML22, ML10.

Plant John Oxley continued to dredge at a depth of about 65' below surface level and advanced in a south westerly direction within Portion PML10. Mining operations have practically ceased in this area and plans are in hand to fill this pond either from the stockpile of material held for this purpose within ML46 or from sand obtained by dredging the bed of Gudgen Creek. Rehabilitation of the mined surfaces are proceeding satisfactorily and a number of bare patches have been receiving additional attention.

Portions 220 etc.

Mining and reshaping of the old Tweed Shire Council's Sanitary Depot and rubbish dump has been completed and seeding of the area is in progress. This previously useless section of land has now been improved to a stage where it could be developed as a real estate.

THE HILLINGHAM MINING COMPANY.

February 73.

Parish Cudson, MIL's 8 & 9.

Rehabilitation is being maintained well up to the operation and back areas within Portions MIL's 6 & 7 have again been reseeded and the surface mulched with hay. A good strike already evident and recent rains have proven most beneficial. The dredging operation is now moving north within MIL9 and good mineral is being recovered immediately east of Tourist Road 4026.

MIL's 22 & 10.

Plant John Orley is proceeding south west within Portion MIL10 at a depth of about 70' from surface level. Heavy mineral values run to about 2%, rehabilitation is being maintained as closely as possible behind. This operation and some tree planting has already been carried out.

THE HILLINGHAM MINING COMPANY

March 73.

Parish Cudson
MIL's 8 & 9

Hamilton Lane continues to dredge in a northerly direction in about 2% heavy mineral. Resoiling is well up to the operation, however about 30 acres require reseeding and this work will be carried out as soon as weather conditions are favourable. Sufficient hay is available to mulch the surface following this work.

MIL22, MIL10

Plant John Orley is now dredging at a depth of about 65' below surface level and moving in a south westerly direction. Mineral grade running about 2% below dredge pond level with the remaining overburden consisting of low grade tailings. Rehabilitation is proceeding favourably, a number of bare spots, north of this operation are now showing some growth and it is proposed that additional tree planting will be carried out in the near future.

Parish Gudgen,
PML's 8 & 9.

July 1973.

Plant Hamilton Hume continues to dredge north on a face approximately 2 chains in width immediately to the east of Tourist Road 4028. Rehabilitation behind this plant has considerably improved and reseeding of a few small bare areas within PML's 5 & 6 will be carried out during the coming spring. This plant is rapidly eating up available areas and will grind to a halt if negotiations to mine Tourist Road 4028 do not eventuate.

PML22, ML10.

July 73

Plant John Oxley is more or less marking time awaiting for approval to be granted over Mineral Lease application 573, Murwillumbah. This will enable this dredge to enter Gudgen Creek and mine upstream west of Gudgen Bridge, form a drainage channel through the bed of the Gudgen Creek and pump the residues into the existing dredge hole within portion PML10. This operation would be marginal however it is certain to promote good public relations for the company and will also enable the existing dredge pond to be filled to the satisfaction of this Department.

Parish Gudgen, PML's 8 & 9.

Ollinghams Mining Co.
August 75.

Dredging is proceeding at a depth of about 70' below surface level in (21.336 m) grades averaging in the vicinity of 1.5% heavy mineral. Tailings are now being stacked at low level and earth moving costs have been considerably reduced. Recently sown cover crops look remarkably well and an additional area is at present being prepared for seeding.

PML22, 10 & 12

Ollinghams Mining Co August 73.

Dredging is continuing in a westerly direction at a depth of about 21.336 m and has now crossed into PML32. It is proposed to fill this pond with tailings from mining within Gudgen Creek the subject of SLA573, Murwillumbah and tailings from the tabling plant are already being run into the excavation.

Parish Gudgen, County Rous.
PML's 8 & 9

Ollinghams Mining Co September 73

Plant Hamilton Hume continues to dredge north east of Tourist Road 4028 and is fast approaching the northern boundary of PML9. Rehabilitation of the mined surface is well up to the operation.

PML10, PML32

Plant John Oxley is now moving north within PML32 along a narrow high grade lead remaining from previous mining. Earthmoving is fairly up to the operation and a good strike of cover crop and other grass is evident following good rains. Tabled tailings from the dry mill continue to be pumped into this dredge pond.

Parish Cudgen PML's 8 & 9

Dredging is continuing in a northerly direction on the eastern side of Tourist Road 4028 in values running to 2% heavy mineral. Rehabilitation around the mining operation is very satisfactory and earth moving is being maintained well up to the operation. Tree planting along the hind areas of this mining operation is lagging however further plantings will be carried out during December of this year.

Parish Cudgen

PML's 10 & 32

Plant John Oxley is now moving north within Portion PML32 at a depth of about 65 feet in 2% heavy mineral. It is now planned that this operation will continue until early January 1974 and the dredge will move into Cudgen Creek towards the end of that month.

Dillingham Mining, Cudgen

23rd November 73.

Inspection was carried out of Hamilton, Hume, and John Oxley plants and plant under construction for Jerusalem Creek project. These plants were all in reasonable order electrically. Test work to determine earthing resistance of dredges in ponds was also carried out.

Note:- One of the prime reasons for this trip was to determine the possible levels of voltage which can appear on dredges during a high voltage earth fault and compare it with safe values proposed by the International Electrotechnical Commission. It is of interest to note that while these values are exceeded at the moment, in all cases except the Hamilton Hume plant above, it would require little extra earthing to be carried out to obtain these conditions, primarily because of the low earthing resistance values obtained with dredge hulls. Hamilton Hume plant gave a very high value, and it is probable that a very different approach will have to be adopted for this plant.

Parish Cudgen.

PML9

December 73.

Mining operations in the Cudgen area ceased on 23.12.73 for the Xmas shut down period. Mining has been continued on a face some three chains in width at a depth of 65' below surface level. Rehabilitation is very satisfactory although tree planting continues to lag.

PML's 10 & 32

Dredging continues to the boundary of PML32, northern end and operations will probably continue until well into February, 1974. Head feed in the vicinity of 2% Hm, depth, 65'-70' below surface level.

Parish Cudgen

January 74

Normal mining operations resumed on 21st January, 1974 after the Christmas shut down period. Operations continued within PML9 and PML's 10 & 32.

Parish Pimlico, County Ross.
SLA 158, Ballina.

July 1973

Dillingham Mining Co.

Dredging operations are continuing along the middle section of this area in a northerly direction on a front approximately 2 chains in width. Adequate settling ponds have been formed to ensure that all water is kept in closed circuit. Mining depth is from 8' to 10' and heavy mineral values in the vicinity of 3%. This operation will continue well into 1974.

Parish Pimlico, County Ross.
SLA 158 Ballina.

Dillingham Mining Co. August 73.

Mining is nearing the northern boundary of this area and the dredge is preparing to turn south on the next leg of the operation. Some re-selling in progress. All water is being maintained in closed circuit and this operation is proceeding satisfactorily.

Parish Pimlico, County Ross.

SLA 158 Ballina etc..

August 1974

Earthmoving operations proceeding under contract. A large area of settling pond remains to be buried and re-soiled.

Parish Pimlico, County Ross
SLA 158 Ballina

Remaining earthmoving in this area almost completed and regrowth evident over greater part of the mined surface.

SEPT 1974

Parish Pimlico, County Ross
SLA 158, Ballina

Nov. 1974

Earthmoving operations within this area are almost completed, good growth is showing over higher sections to the east. All muds and residues successfully buried on site.

Parish Pimlico, County Ross
SLA 158, Ballina.

DEC. 1974.

A small swampy area in the centre of this section remains to be rehabilitated and this work is proceeding satisfactorily. General work is very satisfactory and all plant and equipment has been removed from sight.

Parish Pimlico, County Ross.
SLA 158 Ballina.

Jan 1975.

Good growth showing over greater part of this area, although conditions generally very dry. All earthmoving completed.

PML's 8 & 9

February 1974

Plant Hamilton Hume continues to advance north within PML9 east of Tourist Road 4028 in values running to about 2% heavy mineral. Rehabilitation is well up to this operation and is of a high standard. The services of an agronomist are at last being utilised by this company and the results are very satisfactory. Considerable tree planting has been carried out on this and adjacent areas and in the vicinity of 10,000 trees and shrubs have been carried out in the last few months. Plantings will continue as material is available from the company nursery.

THE DILLINGHAM MINING COMPANY

Manager: Mr. W. Everson

Parish Gudgen, County Rous.
PML 32

February 1974.

Dredging continued along the northern boundary of this area adjoining ML46 at a depth of about 70' below surface level. Whilst it was proposed that this dredge would move into Gudgen Creek to obtain residues to fill the remaining dredge hole additional seams of mineral have been located in this area and mining operations are continuing for at least another eight weeks. Due to the depth of overburden the heavy mineral grades (approximately 1.5% heavy mineral) it would appear that this is more of a holding operation than one which would be considered economic. This company is apparently having continued difficulty gaining access to leases in the Fraser Island complex and is at present battling for time.

The Dillingham Mining Company

Manager: Mr. W. Everson

Parish Gudgen, County Rous

PML 32

March 1974

The Company continues to dredge along the northern boundary of PML 32 and it is planned to move the dredge into Gudgen Creek during May. Rehabilitation is reasonably well up to this operation and the surrounds have been subjected to an extensive tree planting programme.

PML's 8 and 9

Dredging continues along tourist road 4028 in a northerly direction in values running about 1% heavy mineral. Rehabilitation is well up to the operation and almost 10,000 trees have been planted through crown and private land from this operation almost as far south as North Cabarita. It is difficult to see how this plant can continue on anything better than just break even and to date there has been no further development in negotiations to proceed with the mining of the road from about this point south to Cabarita. It would appear that the affected land is held by developers who have not as yet received approval for development from the State Planning Authority.

Parish Cudgen, County Rous

April 1974

PML 32

Dredging extended west along the northern boundary of the area in grades averaging 1 1/2% HM., depth about 20 metres below surface level. This dredge will move into Cudgen Creek as soon as tidal conditions are suitable.

PML's 8 & 9, 11 & 12

Dredging continues to advance in a northerly direction through PML11 & P12/L12. Grades about 1 1/2% HM., depth averaging 20 metres. Rehabilitation of a high standard.

Parish Cudgen, County Rous

June 1974 Dillingham Mining Co

PML's 11 & 12

Mining operations being carried out on eastern side of Tourist Road 4028 immediately opposite the main plant site. Tree planting is continuing, and rehabilitation is very satisfactory. Head feed grades around 1% HM. Negotiations to mine the road from Kingscliff to Cabarita still proceeding.

SLA 573 Murwillumbah

June 1974 Dillingham Mining Co.

The dredge from John Oxley moved into Cudgen Creek on 27/5/74 and dredged a large section upstream from the eastern boundary. Production about 150 c/yds per hour, values better than 1% HM. This operation is proceeding satisfactorily in accordance with the requirements of the Tweed Shire Council and the Department of Public Works. Dredge pond capacity appears adequate to meet present tailing requirements.

678

Parish Cudgen, County Rous.

*Dillingham Mining Co.
August 1974*

PML's 15 & 2.

Dredging continues to advance in a southerly direction along a face some three chains in width, east of the previous mining path. Recent planting are showing well and rain which fell over the last week has proven most beneficial.

SLA 573 Murwillumbah.

August 1974

Operations within Cudgen Creek drawing to a close as available sand has become exhausted. A ridge of indurated material prohibits the movement of the present dredge into the southern section of the creek and it may become necessary to locate a small dredge in this section to obtain the requisite material to completely fill the dredge pond within PML32.

Parish of Cudgen, County Rouss
PML's 2 & 15

SEPT. 1974.

Dredging continuing within northern section of PML15 in low values. Rehabilitation in this section well planned and primary stabilisation very satisfactory. Tree planting being temporarily held over pending advice from developers as to requirements.

SLA 573 Murwillumbah

SEPT 1974

Dredging continues within Cudgen Creek to a depth of 10m immediately to the west of portion 312. Values running to 2%HM, all residues being pumped into the dredge pond remaining within PML32. In excess of 300,000 c/metres of material have been removed from the creek to date.

Parish Cudgen, County Rouss
SLA 573 Murwillumbah

OCT. 1974.

Dredging operations within Cudgen Creek drawing to a close and plant in the process of transfer to ML6, Parish Terranora. Some 420,000c/metres of sand have been dredged from Cudgen Creek during this operation, however the remaining dredge pond within PML 32 is not as yet completely filled.

PML's 2 & 15

1974 OCT.

Dredging operations continue to move south within Portion PML15, approximately six metres to the rear and parallel to the frontal dune. Values range to 1% HM and this operation must be carried out at a loss. Negotiations regarding the mining of Tourist Road 4028 continue between the Developers, the Tweed Shire Council and the mining company, however no agreement has been reached. Possibly recent credit restrictions have severely hampered proposed development for this area.

Parish Cudgen, County Rouss
PML 15

NOV. 1974.

Plant Hamilton Hume continues in a southerly direction parallel with the frontal dune in low grade material, dredging to a depth of about 20 metres. It would appear that this plant is playing for time in an attempt to complete negotiations for mining of Tourist Road 4028. Rehabilitation well planned and well up to the operation.

SLA 573 Murwillumbah

NOV. 1974

Dredging operations within this area have been completed and the remaining fill for the dredge pond within PML 32 may have to be obtained, either from stockpiled material or by further dredging of the creek, using small plant.

Parish Cudgen, County Ross
PML 15.

DEC. 1974.

Plant Hamilton Hume has now turned and is moving North approximately 7 metres west of the crest of the frontal dune and will continue along this path for some months. Negotiations between landowners, Company and Tweed Shire Council regarding mining of the Kingsoliff Cabarita Road, continue.

SLA 573 Murwillumbah

Some 550,000 cubic metres of free sand have been removed from the area of Cudgen Creek and at a recent conference with representatives of the Tweed Shire Council, the mining Company and Department of Public Works it was agreed that the mining Company would attempt to rip indurated material remaining within the creek bed to provide an improved drainage channel through this section. It was pointed out that such operations would severely discolour Cudgen Creek and possibly the shallow water at Kingsoliff beach and that this Department would not be held responsible for such operation. It was agreed that prior to commencement of operation the Tweed Shire Council would advertise the intention to excavate this channel and that the company would act as contractors to Council under the guidance of the Department of Public Works. As the indurated material is not mineralised there would appear no mining objections to this work.

Parish Cudgen, County Ross.
PML 15.

Jan. 1975.

Mining operations to resume during first week February, 1975, all personnel except basic maintenance workers absent on annual leave.

SLA 573 Murwillumbah

Ripping of indurated sand main channel section of Cudgen Creek to be carried out by the company to assist in flood mitigation work for the Tweed Shire Council. It has been stressed to all affected parties that such operation will cause severe pollution of the creek and that such work does not come within the responsibility of this Department.

Parish Cudgen, County Ross.
PML 15.

Dredging advancing along the hind section of the main frontal dune, moving north. Plantings well up to the operation.

ML 46, PML 32.

The remaining plant within position PML 46 is being removed and the surrounding area rehabilitated. Sufficient material has been pumped into the dredge pond from Cudgen Creek to fill the excavation with material to be dozed from higher sections farther to the south.

Parish Terranora, County Rous
ML6

Dillingham Mining Oct. 1974.

Plant John Oxley, programmed to commence operations in this area during early November, 1974. Considerable pressure from locals and Tweed Shire Council for company to seal road and provide other improvements to area in way of compensation. Matter proceeding.

Parish Terranora
ML 6

Nov. 1974

Major plant was moved to this area during the first week of the month. Plant John Oxley has enjoyed a face lift and the concentrating plant has been practically re-built. Planning requires stockpiling of residues at a central point, with mining operations converging from either end. Programme, 15 months from commencement. It is understood that the Tweed Shire Council have threatened an injunction to prevent mining operations proceeding without prior consent of Council with the proviso that such restriction would be lifted if the gravel road past cottages south of the mining plant were sealed at company cost. The situation is being watched with some interest.

Parish Terranora
ML 6

DEC. 1974.

Dredging has commenced from the Northern boundary of Portion ML 6 proceeding in a southerly direction along the crest of the frontal dune. This operation appears well organised and the dredge pond has been fenced to provide a suitable protection during the Christmas holiday period. Plant structure, access, and electric all appear of a high standard and clearly reflect the benefits this Company has gained by employing experienced engineering staff.

Parish Terranora, County Rous.
ML 6.

Jan. 1975.

Dredging continues to advance south, south 12 metres below surface level, values in the vicinity of 1.53 HM. A stockpile of sand to fill dredgepond on completion of operation has been established towards the centre of the western boundary and stabilisation of the surface is in progress. Operations continued throughout the Christmas shutdown except for a company picnic day on 20th December, 1974 and Christmas Day. No complaints regarding the operation have been received from the adjacent residents and rehabilitation will be maintained will up to this operation.

Parish Terranora, County Rous.
ML 6

Feb. 1975

Dredging continues on programme, moving south along the frontal dune, depth approximately ten metres below surface level. Stockpiled sand immediately south of the mining plant has been stabilised and the operation is proceeding satisfactorily. No complaints from adjacent residents.

Parish Terranora, County Rous.
ML6.

March 1975.

Dredging advancing south along crest of frontal area, good values dozed into pond from surface concentrations east of the path, to high water. Stock pile of tailings well stabilised and operations proceeding smoothly without interference to locals. Access road ~~passing houses~~ to plant is being sealed by Tweed Shire Council with financial assistance from mining company.

Parish Cudgen, County Rous.
PML 15, PML 17.

March 1975

Dredging has advanced along a narrow path and has now approached the northern boundary of portion PML 17. Cudgen RZ Ltd., have drillers working along their southern boundary of adjoining portion GL 18 to determine grades for a fall in agreement and negotiations between the two companies should be interesting. Unless some immediate action to reach agreement regarding the mining of the adjacent section of Tourist Road 4028, operations by plant Hamilton Hume will cease.

ML 46, PML 32.

Filling of the remaining pondage within PML 32 and reshaping of both leases areas is continuing. Greater part of the remains of plant John Oxley have been removed for scrap and only pontoons and structure shell remain.

Parish Cudgen, County Rous.
PML's 15 and 17.

Manager: Mr. W. Everson

April 75

Plant Hamilton Hume has reached northern boundary of PML 17 and turning west to mine south along Tourist Road 4028, during construction of proposed road deviation. A deviation road some 1450 metres in length is to be constructed by local contractors for the mining company, to Tweed Shire Council specifications at a cost of \$110,000, to permit mining of that section of the present road, extending south from Cudgen Creek. Negotiations and approvals have been carried out in the nick of time and once again this company has dragged out of a difficult situation.

PML 32, ML 46.

Manager: Mr. W. Everson

Re-shaping of this area is continuing on a part time basis, as the dredge pond area stabilises and it will be some time before the area is sufficiently advanced to permit planting.

Portion 330, Lots 22, 41 etc. (Robertson and others)

Values running about 1½% to 2% in reasonably clean sand. Mining has greatly improved the land in this area and sections will be planted back to cane (previously swamp land).

Parish Terranora, County Rous.
ML 6

Dredging has advanced to about midway along the area, abreast of the concentration plant. Re-formation of the mined frontal section quite satisfactory and dune will be higher than previously. Grades running about 1½%.

Parish Millico, County Rous.
BLA 150 Ballina.

Feb. 1975

Recent heavy showers have indicated some drainage difficulties along centre of western section of the Crown land and earthmoving equipment has been installed to correct situation. About one weeks work to complete, providing weather is suitable.

Dillingham Mining Co.

Parish Cudgen, County Rous.

PML's 15 and 17.

Manager: M. W. Everson

May 1975

Hamilton Hume now advancing south along the immediate eastern boundary of Tourist Road 4028. Provision made to stack top soil along western side of operation to provide protection to traffic. Preliminary construction of road deviation commenced by Tweed Shire Council, at southern end within Portion PML10 and general planning appears to be proceeding satisfactorily. Values running about 1.2%HM, rehabilitation generally satisfactory.

PML 32 and ML46

Manager: Mr. W. Everson

Re-shaping of area proceeding to satisfaction of Department of Lands, remainder of plant John Oxley to be removed at an early date. Whilst considerable earthmoving remains to be carried out, work proceeding at a satisfactory pace.

Portion 330 Lots 22, 41 etc. (Robertson and others.

Mining operations continuing within wet country, west of Cudgen Creek by virtue of private agreement.

Parish Terranora, County Rous.

May 1975

Re-shaping of the frontal dune well under way and some planting commenced from the northern end. Mining operations have reached a point mid-way along the lease and will extend over a longer period than originally programmed due to some sections of higher grade along the eastern side below high water. Stockpile of sand for filling of remaining pondage well stabilised and no problem from noise or sand drift.

Parish Cudgen, County Rous

Manager: Mr. W. Everson

PML's 15 and 17

June 1975

Dredging extending south along the eastern side of Tourist Road 4028 and pond being extended to a depth of about 20 metres. Head feed running about 1%HM overall. Work has commenced on new by-pass road, all work to be carried out by the Tweed Shire Council. Rehabilitation delayed because of plant turn around but generally very satisfactory.

PML32 and ML46

Manager: Mr. W. Everson

Rehabilitation and reshaping of this area almost completed and ready for sowing.

June 1975

Portion 330, Lots 22, 41 etc.

Manager: Mr. W. Everson

Mining proceeding under private agreement with landowners however mineral fast running out and company endeavouring to obtain new location for this plant.

Dillingham Mining Co.

Parish Terranora, County Rous

Manager: Mr. W. Everson

ML 6

June 1975

Mining has now reached the mid point of this lease and dredge to be moved to southern end to dredge north to concentrating plant. Plans to move concentrator have been shelved in favour of a booster pump. Reshaping and rehabilitation of a high standard.

Parish Cudgen, County Rous.

Manager: Mr. W. Everson

PML's 15 and 17.

July 1975

Plant Hamilton Hume continues to advance south-east parallel to the tourist road 4028. The new by-pass road extending south from Cudgen Creek is nearing completion and should be commissioned by the Tweed Shire Council by mid-August. This will permit this operation to turn across the road fronting the existing main area. This plant was inspected in company with Mr. Inspector K. Hunt and instructions were given to commence chipping and painting of the main structure.

G.S.

Parish Terranora, County Rous.

Manager: Mr. W. Everson

ML 6.

Remining within this area proceeding satisfactorily. Rehabilitation well up to the operation and regrowth on frontal area is very satisfactory. This operation has in no way interfered with local residents and it appears that the situation is now generally accepted.

Parish Cudgen, County Rous.

Manager: Mr. W. Everson

PML's 15 and 17.

Dredging advancing south along the eastern boundary of Tourist Road 4028, the new by-pass road is practically completed and now waits sealing. Re-location of water and telephone services has been carried out without disruption and this road should be commissioned by council early in September. Some chipping and painting carried out on plant Hamilton Hume, however, a great deal of work remains to be done and company is to instal a sand blast unit as soon as possible.

Parish Terranora, County Rous.

Manager Mr. W. Everson

ML 6.

The concentrating plant has been shifted further to the south of original location and dredging has commenced from the southern area advancing north. Values running about 1.5% heavy mineral reshaping of frontal dune and rehabilitation very satisfactory. No complaints from local residents regarding operation and tree planting should commence as soon as the mined surfaces are sufficiently stablised.

Parish Terranora, County Rous

Manager: Mr. W. Everson

ML 6.

September 75

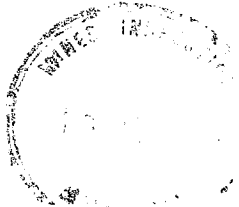
Dredging continues north towards the centre of the lease area in values running about 2% heavy mineral. Rehabilitation very satisfactory and well up to the operation and no complaints from local residents.

78

Parish Cudgen, County Rous
PML's 15 and 17

Manager: Mr. W. Everson

September 78



The recently constructed by-pass road has now been commissioned by the Tweed Shire Council and Mining Operations may now be conducted within the old portion of Tourist Road 4028. Plant Hamilton Hume continues to dredge south-east of this section of road and will shortly turn north and commence operations within that area. Head feed values have improved to about 2% heavy mineral and the operation is proceeding smoothly. Chipping and painting of the

Parish Cudgen, County Rous
PML's 15 and 17

Manager: Mr. W. Everson

Oct 75

Dredging continues within the previous road boundaries, extending to a depth of approximately 22 metres below surface level. This operation is well contained and rehabilitation is well up to the operation. Recent plantings are showing well and all work is of a high standard.

78

Parish Mooball, County Rous
ML 37 Act 1973

Manager: Mr. W. Everson

Oct 75

Dredging continues south along a front approximately 3 chains in width. Complaints regarding noise level received from residents of the village of Pottsville investigated and earth-moving equipment restricted to operations within the hours of 6 a.m. to 10 p.m. As a good will gesture Company has cleared areas of rubbish and scrub from southern village boundary and all complainants have been satisfied.

Parish Terranora, County Rous
ML 6.

Manager: Mr. W. Everson

Oct 75

Dredging continues north within mineral values running to 2% heavy mineral. Reshaping and general rehabilitation of mined surfaces to date of a high standard, good plantings of secondary species evident. Mr. Allan Joseph Phillip, of 3 Olga Street, Kingscliff died at approximately 1 p.m. on Sunday 19th October, 1975 whilst clearing a starboard line of the dredge at this site. Whilst the Post Mortem investigation revealed the deceased did not suffer drowning an inquest will be held into his death at a date to be determined. A preliminary report and details of the occurrence have been forwarded.

4.11.75	PML's 15 and 17 Parish Cudgen, County Rous	"	"	
4.11.75	ML 37 Act 1973 County Rous.	"	"	Plant advancing south to mid-point of mining path. Rehabilitation lagging to permit draining of tailings.
4.11.76	ML6, Parish Terranora, County Rous	"	"	Dredging advancing north, no complaints from local residents. Rehabilitation well up to operation.
13.2.76	PML'S 15 & 17 Parish Cudgen County Rous "Hamilton Hume Plant" Kingscliffe	Rutile, Zircon	Continuous	Worked 15 men for 6 weeks chipping superstructure, replacing rusted sections etc: estimated \$15,000 labour, \$10,000 material. Plant just recommencing and in process of changing direction.

78

13.2.76	ML6, Parish Terranora County Rous Fingal. "John Oxley Plant".	Rutile, Zircon	Continuous	Worked through Christmas - rehabilitation work kept up with mining.
13.2.76	PLLA 531 Parish Mooball County Rous. "Robert O'Lara Burke Plant"	Rutile, Zircon	Continuous	Have to bury trommel trash - pH of 2. Slimes settled with tailings, water in closed circuit.
20.2.76	Lot 1, Por 43 Parish Terranora County Rous owned and occupied by A.J. Mackie	Rip Rap for road fill	Intermittent	Complaint by A.J. Mackie regarding past flyrock etc. Blundle who owns adjoining quarry directed as blasting operations. W. Kennedy, Tweed Blue Metal, advised of limit of explosive to anyone delay in sequence of blast. Accompanied A.J. Slater, D.I.M.

14. 5.76 6.76	ML 6 Parish Terranora County Rous (Fingal)	Rutile & Zircon	Continuous	Routine inspection. This dry plant will be moved to Cudgen Creek early June. Restoration is satisfactory considering the open south easterly aspect.
20. 5.76 6.78	PML's 15, 17 Parish Cudgen County Rous (Kingscliffe)	Rutile & Zircon	Continuous	Routine inspection. The dredg- ing plant is operating in a southerly direction alongside Cudgen Creek. Restoration keep- ing up with operation.
20. 5.76 6.78	PLLA 531 Parish Mooball County Rous (Pottsville)	Rutile & Zircon	Continuous (Nearing completion)	Routine inspection. This dry plant will be completed by the end of June and move to Newrybar Restoration lagging due to con- tinual need for slime ponds in shallow swampy conditions.

21. 9.76 check 6.78	<u>Parish Cudgen</u> <u>County Rous</u> ML10 SLA 573 Murwillumbah	Rutile & Zircon Rutile & Zircon	Continuous Continuous	Operations proceeding smoothly, restoration well up to plant. Operations have entered the western edge of Crown land, moving east towards western bank of Cudgen Creek. Co. requested to supply details of mining path, depth of operations etc. fo Restoration work pro PWD., Lismore. Restoration work proceeding to plan, area showing good general growth.
22. 9.76	<u>Parish Terranora</u> ML 6	Rutile & Zircon	Restoration	

27.10.76	<u>Parish Cudgen</u> County Rous SLA 573 M'bah	Rutile and Zircon	Continuous	Mining advancing south west of western bank of Cudgen Creek within then timber and open grassland. Planning being developed to move into Cudgen Creek proper.
27.10.76	PLL 1051 Portion PML 10	Rutile &	Continuous	Plant Hamilton Hume dredging south towards dry mill area depth 20 metre below ground level.

DILLINGHAM MINING

18.12.75

6178

PML's 15 & 17
Parish Cudgen,
County Rous

Rutile and
Zircon

Continuous

Plant turning to move south within
R4028 for Road. Rehabilitation satisfac-
actory and well up to operation.

18.12.75

ML6 Parish
Terranora,
County Rous.

Rutile and

Zircon
Continuous

Mining advancing north along rear of
occupied cottages. Rehabilitation
satisfactory, protective fencing
raised to protect dredge pond.

18.12.75

ML37 Act 1973
Parish Mooball,
County Rous

Rutile and
Zircon

Continuous

Dry mining advancing south adjacent to
concentration plant. Rehab. lagging
due to heavy muds and wet conditions

4037
3526

Dillingham Mining Co.

Ballina and Newrybar

28.10.76

Portion 294

Rutile &

Continuous

Plant Robert Burke upgraded to
about 400 tonnes per hour operating
in sandy clays. Mineral values
about 2% HM. Extreme difficulty in
settling plant water.

28.10.76

PML 9
Portion 121

Rutile &
Zircon

Continuous

Concentrating plant located immedi-
ately North Ross Lane under agree-
ment Associated Minerals Cons. Ltd.

4037

THE DILLINGHAM MINING CO.

17.11.76

6178

Parish Cudgen
County Rous
PML 10 etc.

Rutile &
Zircon

Continuous

Dredging advancing south to north-
ern boundary of plant buildings.
restoration well up to plant.
operations 23 metres below ground
level; dredge pond of minimal
size.

DATE INSPECTED	SITE	MINERALS MINED	CONTINUOUS INTERMITTENT	COMMENTS
6.10.76	<u>The Dillingham Mining Company</u> <u>Parish Terranora, County Rous</u> ML6	Rutile & Zircon	Restoration	Further planting of remaining centre section of frontal dune proceeding. Work of satisfactory standard.
17.11.76 6178	Parish Terranora, County Rous	Rutile and zircon	Restoration	Restoration of area well advanced planting and crushing of
1. 12. 76 6178	<u>THE DILLINGHAM MINING COMPANY</u> Parish of Cudgen County of Rous PML 10	Rutile & Zircon	Continuous	Mining operations continue adjacent to main plant. Dredge has now turned north to turn west around the main plant. Dredging depth about 20m below surface level. Fatal accident suffered by L. Ridolfi on 4. 12.76 report forwarded.
1. 12. 76 6178	<u>PARISH CUDGEN COUNTY ROUS</u> SLA 573 Murwillumbah	Rutile & Zircon	Continuous	Dredge John Oxley moving south along western boundary of area preparatory to entering Cudgen Creek. Inspection carried out company P.W.D. to satisfy conditions of consent.
1. 12. 76 6178	<u>PARISH TERRANORA COUNTY ROUS</u> ML 6	Rutile & Zircon	Restoration	Restoration well in hand and central area being planted and mulched considerable area of secondary species to be planted at later stage.
26. 1.77 178	<u>Dillingham Mining Company</u> ML 6 Parish Cudgen, County Rous ML 6		Restoration	Discussion with management re provision of life jackets and life buoys etc. All gear to be in place prior to commencement of operations early February. Good growth developing over surface, generally satisfactory.

THE DILLINGHAM MINING COMPANY				
4. 3.77 6178	Parish Cudgen County Rous Old Cudgen RZ Workshop and Mill area	Rutile & Zircon	Continuous	Inspection in company with representatives of Tweed Shire Council, Kingscliff Progress Association and Mining Company re mining of plant area and reforming of whole plant area.
4. 3.77	Plant Hamilton PML 10	Hume Rutile & Zircon	Continuous	Dredging moving south between Tourist Road 4028 and main plant area depth approximately 18 metres. Rehabilitation well up to operation.
4. 3.77	Plant John Oxley SLA 573 Murwillumbah	Rutile & Zircon	Continuous	Plant advancing east from western side and southern boundary to enter Cudgen Creek and move north. Tailings to be discharged to western stockpile for use by D.M.R.
4. 3.77 6178	Parish Terranora County Rous ML 6	Rutile & Zircon	Rehabilitation	All brushing and planting for primary stabilisation completed. Some plantings of secondary species extending in more advanced sections.

16. 5.77 6178	Kingscliff Area. Old Cudgen RZ. Mill	Rutile & Zircon	Suspended	Dismantling of remaining plant and buildings proceeding elevators, dryers and bulk of equipment has been sold, and removed from site work proceeding on a part-time basis, Preparatory to mining at a future date.
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9. 6.77 6178	Parish Cudgen County Rous	Rutile & Zircon	Continuous	Only office and administrative staff remaining at Kingscliff office and an air of doom settling over area following recent announcement regarding restrictions for mining within National Parks.
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THE DILLINGHAM MINING CO.				
3. 8. 77. 6178	Parish Cudgen, County Rous, Kingscliff Mill	Rutile & Zircon	Intermittent	Mill operated by remaining staff on a part-time basis to clean zircon concentrate. Four tradesmen employed at workshop developing replacement steelwork for Broomes Head Plant.

THE DILLINGHAM MINING CO.				
16. 9.77 6178	Parish Cudgen, County Rous Old Cudgen RZ Plant site Cudgen	Rutile & Zircon	Continuous	Mill and office buildings being removed by staff labour. Work proceeding satisfactorily.

618	27.10.77	Parish Cudgen County Rous	Rutile & Zircon	Continuous	Removal of plant and equipment from site continues, concrete foundations being ripped by bulldozers
		THE DILLINGHAM MINING CO.			
	5.12.77	Parish Newrybar County Rous ML 81	Rutile & Zircon	Rehabilitation	Three swamp dozers and one Cat D8 have been employed continuously over last 4 months. Rehabilitation work now complete. Small pond remains in North Eastern corner and surrounds have been fenced. All work of high standard.
		THE DILLINGHAM MINING COMPANY			
6.2.78	5.2.78	Parish Newrybar County Rous ML 81 (Act '73)	Rutile and Zircon	Rehabilitation	Area has now been completed and inspection in company with Dillingham representatives regarding list of complaints from Robertson Bros. Minor fencing to be replaced and area considered satisfactory except for regrowth
		THE DILLINGHAM MINING CO OF AUSTRALIA			
	11.5.78 6178	Parish Newrybar County Rous ML 81	Rutile & Zircon	Rehabilitation	Inspected company Mr P Cooney and management Dillinghams Re rehabilitation of mined surface. Area generally very satisfactory, small area requires replanting south eastern corner.
		THE DILLINGHAM MINING COMPANY			
	14.6.78 6178	Cudgen Plant Parish Cudgen County Rous ML 2 PML 10	Rutile & Zircon	Completed	Removal of office buildings, plant and equipment well in hand, following auction sale late May 1978.
	14.6.78	Parish Newrybar County Rous ML 81 (Act '73)		Rehabilitation	Company replanting bare area adjacent to Ross's Lane. Work carried out in accordance Soil Conservation Service recommendation.
		THE DILLINGHAM MINING CO			
	1.3.78 6178	Parish Terraora County Rous ML 6		Rehabilitation	Rehabilitation proceeding satisfactorily recent rains have greatly assisted regrowth.

28. 4.77	Parish Newrybar County Rous ML 81	Rutile & Zircon	Continuous	Rehabilitation of area continues, some difficulty with spreading of wet material at level of water table. Two swamp dozers fully engaged.
19. 5.77	Parish Newrybar County Rous ML 81	Rutile & Zircon	Rehabilitation	Reshaping and soiling of area temporarily suspended due to very wet conditions. Two swamp dozers remaining on site. Plant and mining equipment remains on site under care and maintainance.
21. 7.77	<u>Parish Newrybar, County Rous</u> ML 81 (Act '73) Portion 294	Rutile & Zircon	Rehabilitation	Three swamp dozers working full time on rehabilitation of this area whilst dry conditions continue. Work well in hand and a further four weeks should finish job.
3. 8.77 24. 8.77	Parish Newrybar, County Rous ML 8 (Act '73)	Rutile & Zircon	Rehabilitation	Three swamp dozers continue operations reshaping and soiling under difficult conditions. Heavy rain storm delayed operations and may be necessary to leave pondage on lower section.
31 27.10.77	Parish Newrybar County Rous ML 81 (Act 73)	Rutile & Zircon	Rehabilitation	Whole of area reshaped and planted except about one hectare immediately north of Ross Lane. Three swamp dozers and one Cat D8 held under contract to complete earth moving whilst weather is dry. All work proceeding satisfactorily.
23. 8.78	<u>THE DILLINGHAM MINING COMPANY</u> Parish Newrybar County Rous ML 81 (Act '73).	Rutile & Zircon	Rehabilitation	Inspected to determine progress of small sections showing little previous growth. Applications of about 4 tonne of lime per hectare recently spread and areas again sown. General primary propagation satisfactory, follow up required.

THE DILLINGHAM MINING COMPANY				
25.10.78	Parish Cudgen County Rous PML10, PML2	Rutile & Zircon	Rehabilitation	Dredge hole remaining on PML10 almost filled and surrounds being contoured to requirements of land owners. Some sections already planted.
	PML 25	Rutile &	Rehabilitation	Tree planting over stabilised area commenced from the southern end.

THE DILLINGHAM MINING COMPANY				
4.11.78	Parish Cudgen County Rous PML 24 PML 10	Rutile & Zircon	Rehabilitation	Repacking of office and plant area completed. Rehabilitation proceeding satisfactory.
4.11.78	Parish Newrybar County Rous PML1	Rutile & Zircon	Rehabilitation	Supreme Court action Robertson Bros v Dillingham constructions proceeding. Hearings very satisfactory, small section adjacent Seas Lane still shows ML 4.5 and may require further attention. Matter in hand.
13.11.78	Parish Cudgen County Clarence PML3, PML2 etc PML 1	Rutile & Zircon	Rehabilitation	Planting and maintenance of areas proceeding. Results very satisfactory.

THE DILLINGHAM MINING COMPANY				
6.12.78 8.12.78	Broadwater National Park	Rutile & Zircon	Rehabilitation	Inspections carried out in company with National Parks Committee. All required repair work completed. Vegetation developing well.

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THE DILLINGHAM MINING COMPANY				
4.1.79	Parish Cudgen County Rous PML 2, PML 10 etc		Rehabilitation	Previous plant site now cleared and cover crop developing well. Trees to be planted as soon as weather conditions permit.
5.1.79	Parish Newrybar County Rous PML 1 (Oct 73)		Rehabilitation	Good regrowth evident after recent slashing of grass cover. One or two small bare spots covering slowly. Situation satisfactory. Agriculture survey being conducted by company to support evidence for pending supreme court action by landowners.

THE DILLINGHAM MINING COMPANY			
5. 7.78	Parish Cudgen County Rous PML 2 PML 10 etc.	Rutile & Zircon	Rehabilitation Contractors removing remaining workshop and office buildings, clearing site and filling remaining dredge pond on PML 10. Plant Hamilton Hume has been dismantled and sold mainly for scrap.
	Parish Canoula County Clarence ML81, PML 2, PML 1 etc.	Rutile & Zircon	Rehabilitation Four men employed completing sowing of cover crop on hind area and maintaining frontal area. Work very satisfactory to date Further tree planting in hand. Some 10,000 species planted to date.
16. 9.78	Parish Cudgen County Rous PML 44, PML 10 PML 2	Rutile & Zircon	Rehabilitation All plant and buildings removed, remaining dredge hole on PML 10 should be filled within 4 weeks. Reshaping of surrounding land surface proceeding to requirements of landowners.
16. 9.78	Parish Ferrars County Ross	Rutile & Zircon	Rehabilitation All plantings completed and area progressing well. No further work required at this stage.
23. 8.78	Parish Cudgen County Rous PML 2, PML 10	Rutile & Zircon	Rehabilitation Workshop and office buildings removed and earthmoving in progress to fill existing dredge hole on PML 10.

7.2.79	Parish Cudgen County Rous PML2, PML 10 PML 25 etc.	Rutile & Zircon	Rehabilitation	Good primary cover over area of previous plant site. Tree planting in progress.
20. 3.79	Parish Cudgen County Rous ML 502, 510	Rutile & Zircon	Rehabilitation	Wood and Council now working to fence existing one park area in region by Soil Conservation Service and Forestry protection there will now be a ditch along boundaries to retain water. Additional planting will be done on completion.
30. 3.79	Parish Cudgen County Rous ML 2, ML 170	Rutile & Zircon	Rehabilitation	Planting of trees and shrubs nearing completion standard very satisfactory.
30. 3.79	Parish Newrybar County Rous ML 81 Act '73	Rutile & Zircon	Rehabilitation	Small bare sections along southern boundary now partially covered. Company awaiting results of soil analysis.
1. 8.79	Broadwater National Park Parish Broadwater County Rous ML 5 etc	Rutile & Zircon	Rehabilitation	Additional brushing to be carried out on two areas washed out by heavy rain. Matter in hand.
5. 9.79	THE DILLINGHAM MINING COMPANY Parish Newrybar County Rous ML 81 (Act '73) SL112, PML 9 (Associated Minerals Con Ltd)	Rutile & Zircon	Rehabilitation	Inspection in company Area Managers re rehabilitation of two small difficult sections showing poor regrowth. Additional soil samples taken matter in hand. Remaining old plant in process of removal from adjoining PML 9 held by Associated Minerals. Surveyors determining volumes required to fill a dam left by company on completion of mining and subject of dispute with land-owners.
7.10.79	THE DILLINGHAM MINING COMPANY Parish Newrybar County Rous SL 112, PML 9	Rutile & Zircon	Rehabilitation	Compensation finalised with land-owner Mr Skinner regarding damage caused during occupancy of land under agreement with Associated Minerals Cons. Ltd. Agreement to be forwarded to Department.
7.10.79	Parish Cudgen County Rous PML's 4, 5, 6 10, 22 etc.	Rutile & Zircon	Rehabilitation	Small areas affected by recent fires which were mainly concentrated west of rehabilitation. Repairs in hand.

13.12.79	DILLINGHAM MINING COMPANY Parish Cudgen County Rous PML 2, PML's 4, 5, 10 etc	Rutile & Zircon	Rehabilitation	Plantings suspended due to extremely hot weather. One man employed developing nursery stock for 1980 programme.
28. 4.80	THE DILLINGHAM MINING COMPANY Parish Newrybar County Rous ML 101 (Act '75)	Rutile & Zircon	Rehabilitation	General condition of regrowth excellent. Two small bare patches will further action immediately north southern boundary, east side of mining path. Matter in hand.
30. 9.80	THE DILLINGHAM MINING COMPANY Parish Cudgen County Rous PML's 4, 5 and 6	Rutile & Zircon	Rehabilitation	Some additional plantings of banksias to be carried out when weather conditions are favourable.

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The Dillingham Mining Company

Rehabilitation of mined surfaces was carried out at Cudgen, Broome Heed and within the Broadwater National Park. Regular inspections were carried out with company executives of areas still retained by the Company and progressive plantings of native species are programmed for 1981.

APRIL 1981

An inspection of all current rehabilitation being carried out by the Dillingham Mining Company of Australia was carried out on 22 April, 1981 in company with Mr N Quince, New South Wales Manager Mining.

7. 7.81	DILLINGHAM MINING COMPANY Cudgen Area	Rutile & Zircon	Rehabilitation	Inspection of recent additional plantings of trees on areas previously affected by fire. Areas generally very satisfactory.
8.81 677	DILLINGHAM MINING COMPANY Cudgen Area	Rutile &	Rehabilitation	Regrowth on area proceeding well following recent additional plantings and now no objection to release of bulk of Cudgen securities. Application by company pending.