Gladstone Ports Corporation
Growth, Prosperity, Community.

GPC Document No. 1497178
GPC Ref: DA2019/02
Your Ref:

23 April 2019

Greg Lott
Portside Storage Pty Ltd
PO Box 5127
Red Hill
NORTH ROCKHAMPTON QLD 4701

Email: bulkliquidstorage@yahoo.com.au

Dear Mr Lott

DECISION NOTICE – APPROVAL WITH CONDITIONS – DA2019/02

(GIVEN UNDER THE PROVISIONS OF GPC LAND USE PLAN 2012V2)

1. Application Details

This development application was **properly made** to the Gladstone Ports Corporation Limited (GPC) on **4 April 2019**.

Application Number:	**DA2019/02**
Applicant Name:	**Portside Storage Pty Ltd**
Applicant Contact Details:	**Mr Greg Lott** **Portside Storage Pty Ltd** **PO Box 5127** **North Rockhampton Qld 4701** **Email: bulkliquidstorage@yahoo.com.au**
Approvals Sought:	**Port Application for replacing 2 pipelines and adding a 3rd pipeline**
Details of Proposed Development:	**Replacing biodiesel and tallow pipelines, adding third pipeline and resurfacing the road**
Location Street Address:	**Internal port road** **PORT ALMA QLD 4699**
Location Real Property Description:	**Part of Lot 74 on SP133750 and Part of Lot 72 on SP133750**
Land Owner:	**Gladstone Ports Corporation Limited and Department of Natural Resources and Mines**
Present Zoning & Precinct	**Strategic Port Land – Port Industry and Wharves Precinct**

2. Details Of Proposed Development

This approval includes replacing two existing biodiesel and tallow pipelines and installing a third pipeline for which a product is yet to be determined.

This approval does not include:

a) any works on the walkway or wharf e.g. addition of a third pipeline.
b) using the new third pipeline for a product other than existing approved products.

3. Details Of Decision

This development application was **decided** on **23 April 2019**.

This development application is **approved in full with conditions**. These conditions are set out in Attachment 1 and are clearly identified to indicate whether the assessment manager or a concurrence agency imposed them.

4. Details Of Approval

This development approval is a **Development Permit** given for:

a) Port Application for undertaking work in, on, over or under premises that materially affects the premises or their use including excavating or filling (*GPC Land Use Plan 2012v2*)

5. Conditions

This development approval is subject to the conditions in Attachment 1 - Part 1.

6. Further Development Permits

Please be advised that the following development permits are required to be obtained before the development can be carried out:

1. Not applicable

7. Approved Plans and Specifications –

Copies of the following plans, specifications and drawings are enclosed in **Attachment 2**:

Drawing/report title	Prepared by	Date	Reference no.	Version
Aspect of development: Port Application				
Location Plan	Central Drafting Services	25/03/2019	Draw. No. WD-2396	
Pipeline Plan View	Central Drafting Services	25/03/2019	Draw. No. WD-2396	
Drawing 1a	East Coast Traffic Control	21/03/2019	TGS Draw. No. 1a	
Job Safety & Environmental Analysis	Portside Storage	16/04/2019		3.0
Email: CEMP	Portside Storage	04/03/2019		
Email: Revised Work Schedule	Portside Storage	04/04/2019	190073	
Construction Scope of Works	Portside Storage	27/03/2019		Rev. 2

8. Currency Period for the Approval

This development approval will lapse at the end of the periods set out below:

- For Port Applications this approval lapses 6 years after this approval decision date.
- For Operational Works this approval lapses 2 years after this approval takes effect.

9. Rights of Appeal

No legislated appeal rights are afforded with this decision notice in relation to the Port Application for relocation of stormwater infrastructure as the application was not made under the provisions of the *Planning Act 2016*. Legislated appeal rights afforded to the Operational Works for relocation of sewerage infrastructure are attached to the Negotiated Referral Entity Advice Notice.

For further information please contact Judy Horsfall, Planning Officer, on 07 4976 1314 or via email horsfallj@gpcl.com.au or Sarah Hunter, Principal Planner, on 07 4976 1287 or via email hunters@gpcl.com.au.

Yours sincerely

Anthea

Anthea Bennett
(Acting) Manager Planning & Development
23 April 2019

Enc. Attachment 1: Conditions of Approval
Part 1 – Conditions imposed by the assessment manager

Attachment 2: Approved plans and specifications

ATTACHMENT 1: CONDITIONS OF APPROVAL

PART 1: ASSESSMENT MANAGER CONDITIONS

In general the development proposal is in compliance with the requirements of Gladstone Ports Corporation Limited (GPC). This development approval is subject to each the following conditions which are stated by GPC, the assessment manager.

Part 1a: Approval sought under GPC Land Use Plan 2012v2 – Port Application

GENERAL

1. The proposed development must be carried out generally in accordance with the plans as lodged with the application except where modified by conditions of this permit.
2. Unless otherwise stated, all conditions must be completed prior to the commencement of the use.
3. Where additional "approval" is required under these conditions by the Gladstone Ports Corporation for drawings or documentation, the proponent must submit for review, amend to the satisfaction of, and obtain written acceptance from the Gladstone Ports Corporation. Only in this manner can compliance with the condition be achieved.
4. All other relevant regulatory approvals must be obtained before commencement of works or operation of the facility.
5. The proponent must inform GPC of completion of works within 14 days of practical completion and undertake a site inspection with GPC. The proponent must also certify that the development is constructed as per design and provide RPEQ certification that the development has been constructed in accordance with the approved plans.
6. The proponent must at its cost and expense, keep and maintain the subject area, including existing services, in a state that is satisfactory to the Port.

ENGINEERING

7. The proponent must upon completion of the works supply GPC with "As Constructed" plans in both hard copy (2 of) and electronic (CAD format) which illustrates all infrastructure on Port land which is associated with the activity (e.g. detailed positions of pipelines and nearby underground services and infrastructure).
8. Upon completion of the works, the proponent must supply GPC with survey plans with AMG coordinates identifying the location and width of the new triple pipeline alignment. Plans must be provided that identify the location of the pipelines in relation to the fence, road and surrounding property boundaries.
9. The proponent is required to conduct surveys to locate underground services prior to commencing works and where necessary submit a plan for approval to adjust or interfere with any existing services found during this survey and excavation.
10. The full extent of the original two pipelines being replaced are to be removed from site, with the exception of a small section under the security hut, unless otherwise approved in writing by GPC.
11. The proponent is to notify GPC of damage caused to any port or port user infrastructure or services including security related devices, buildings, fences, lighting etc., roads, walkways and underground services or infrastructure, as a result of this activity. The proponent will undertake necessary repairs at their expense and to the satisfaction of GPC.

12. No works or materials including soil, rocks, waste or debris are to extend beyond the existing batter to the adjacent waterway. Any materials that enter the adjacent waterway must be removed as soon as possible by the proponent.
13. Upon completion of the works, the proponent must reinstate the property to the same condition as that prior to the works being undertaken unless agreed to in writing by GPC.
14. Any site lighting used during construction should not impact on the visibility of Navigational Aids utilised for the primary shipping channels nor illuminate a landward glare beyond the site boundary. Lighting will be continually reviewed during construction with respect to navigation and will be revised as required in response to negative impacts as they arise.

SECURITY

15. Stage 1, Stage 2, Stage 3 and Stage 5 works must only be undertaken when there is no ship in port.
16. Stage 4 works must not include hot works in the event an explosives ship is in port.
17. When security fencing is removed to allow works to be carried out, the area must be under the supervision of a port access accredited person until the fence has been reinstated prior to cessation of activities at the end of each day.
18. During all stages of the development, access to the Port Alma Shipping Terminal via the security gate and port security card reader must be maintained for use by port employees and port users.
19. If necessary, the proponent must provide a guard to assist port employees or port users to access the port security card reader or manually log all personnel entering and leaving the Port Alma Shipping Terminal.
20. The proponent will provide GPC employees access to the construction site during the activities to allow monitoring and inspection of compliance with security requirements to ensure compliance with the Customs Act 1901.

ENVIRONMENT

Construction Environmental Management Plan

21. Prior to construction works commencing on site, an Construction Environmental Management Plan (CEMP) (or its equivalent e.g. JSEA) specific to the construction works must be submitted to GPC for approval.

    The construction works must be undertaken in accordance with the approved CEMP that ensures:

    (a) environmental risks are identified, managed and continually assessed; and
    (b) that staff are trained and aware of their obligations under the CEMP; and
    (c) that reviews of environmental performance are undertaken at least annually; and
    (d) any amendments to the CEMP are to be submitted to GPC for review and approval.

Operational Environmental Management Plan

22. Prior to operational works commencing on site, an Operational Environmental Management Plan (OEMP) (or its equivalent) specific to operational works must be submitted to GPC for approval.

    The operational works must be undertaken in accordance with the approved OEMP that ensures:

(a) environmental risks are identified, managed and continually assessed; and
(b) that staff are trained and aware of their obligations under the OEMP; and
(c) that reviews of environmental performance are undertaken at least annually; and
(d) any amendments to the OEMP are to be submitted to GPC for review and approval.

Incident notification

23. Gladstone Ports Corporation's Environmental Hotline (07) 4976 1617 must be notified of the occurrence of any;

(a) release/spill of contaminants (e.g. fuels/chemicals/sewerage) greater than 250L to land;
(b) release/spill of contaminants (e.g. fuels/chemicals/sewerage) to water;
(c) environmental complaints received by the holder of this approval;
(d) non-compliance with conditions of this approval or any other environmental approval obtained in relation to the approved activity.

ATTACHMENT 2: APPROVED PLANS AND SPECIFICATIONS

Gladstone Ports Corporation Limited
T: +61 7 4976 1333 • Fax: +61 7 4972 3045 • 40 Goondoon St/PO Box 259, Gladstone QLD, 4680, AUSTRALIA • www.gpcl.com.au
ACN 131 965 896 ABN 96 263 788 242

Judy Horsfall

From: Greg Lott <bulkliquidstorage@yahoo.com.au>
Sent: Thursday, 4 April 2019 12:08 PM
To: Judy Horsfall
Subject: Revised Work Schedule
Attachments: 190073 - Port Alma - Portside Storage Replacement - Scope of Work - Rev2.pdf; Bulk Liquid Storage Port Alma TGS v3.pdf; Copy email to Sam Carey.pdf; JSA - Pipeline Removal & Replacement.doc; WD-2396 - RPEQ - 20190327.pdf

Hi Judy

The Job will be broken into Stages

Stage1 From the catwalk to personnel gate.

Stage 2 From personnel gate to the western side of the road.

Stage 3 From the western side of the road to the Port fence (Car Park).

Stage 4 From Port fence tp the existing above ground pipes.

Stage 5 At the catwalk connecting to existing pipes.

The work on Stage 1 would be the first to be done when no ships were in the Port and would take about 12 hours. No interference to Road Way or traffic.

The work on Stage 2 (Road Way) would start on a Friday so as the concrete could be poured on the Saturday morning it would then be open to all traffic on the Tuesday morning. This stage would only be worked on if there were no ships in the Port or likely to be coming.
During this stage of work traffic would be diverted on the temporary road through the Car Park. As shown in the Traffic management Plan. This access will allow cars and trucks into and out off the Port Area. Access to the card readers will not be affected at any time and as there will be no ships in the port at the time the guard hut will be unmanned.

The work on Stage 3 (Car Park) would start only after Stage 2 was completed and provided there were no ships in the port or likely to be any coming. This stage would be available for use and be completed within 3 days. All traffic signage would be kept in place until this stage is completed and ready for use.

The work on Stage 4 as it is not within the Port security zone could proceed at at any time regardless of ships in the Port . The only limitation would be that no Hot Work could be done if an explosive ship was in the Port. No traffic diversion needed for this stage.

The work on Stage 5 would only occur when there were no explosive ships in the Port.. There would be no traffic diversions during this stage.

During Stages I & 5 Arrangements would be made with the GPC management at Port Alma for the Trades people involved in the work to be in the Port Area. Expected to be 2 Men they would be escorted at all times by a MSIC and GPC accredited person.

At any time when a security fence has to be opened to allow the trench and pipes to be put in place it will be replaced within hours and never left in an non secure manner or unmanned at any time. This will only happen in 2 places.
At the completion of each stage the pipeline will be air tested for leaks. The completed section of pipeline will be hydrostatically tested.

We would liaise with the Port Alma manager at all times in regards the expected Ship and Traffic flow in and out of the Port so as to eliminate disruption to the port and our contractors.

Please see attached : Stamped copy of Engineers approved Plans, Construction Scope of works from Engineer, Traffic Management plan, JSA for pipeline replacement & removal, Copy of email to Sam Carey.

Regards
Greg Lott

Greg Lott
Bulk Liquid Storage

PO Box 5127
Red Hill, North Rockhampton, Qld
Australia 4701
Mob: 0428-638-818
Fax: +617-07-4934-6996
Email: bulkliquidstorage@yahoo.com.au

Port Alma – Portside Storage Pipeline Replacement

Construction Scope of Works

Revision 2

27/03/2019

Mark Frost RPEQ 9017

SCOPE OF WORKS

The aim of this project is to replace 2x DN250 pipelines and install a third DN250 pipeline.

The contractor shall refer to Drawing WD-2396 for the works and ensure that all works are in accordance with the relevant Australian Standards.

The contractor shall supply all plant, equipment, materials, consumables, and labour to complete the following scope of works:

General:

1. Install effective and adequate safety barriers as required. Traffic control shall be used as required by the contractor to ensure safe working areas. A Job Safety and Environment Analysis (JSEA) is to be completed prior to works commencing and shall be pre-approved by the Client.
2. Removed soil shall be acid sulphate tested. Acid Sulphate soil shall be transported to the nominated Bulk Liquids Storage area to be treated.
3. Contaminated soil is to be disposed of by a suitably licenced contractor.

Road Crossing;

4. The contractor will be required to liaise with GPC Port Alma operations to determine suitable shipping gap to complete road crossing works. No road crossing works shall be undertaken unless a suitable shipping gap is available.
5. Clear work area as required.
6. Construct temporary road as shown on the drawing, to a minimum of 5000mm wide.
7. Isolate and drain pipelines to be removed as per site procedure.
8. Conduct trench excavation to the extent required to remove existing pipe.
9. Remove pipes in lengths that are easily managed.
10. Complete excavation of trench as shown on the drawing.
11. 100mm of bedding sand is to be filled into bottom of trench and levelled prior to installing new DN250 4mm thick Tufflon P90 coated pipelines.
12. All pipe or pipe fittings to be butt welded as per AS4041. Pipe to be hydrostatically tested as per requirements in AS4041 to 750kPa for 15min.
13. Bury pipes in trench with bedding sand to 100mm coverage.
14. Fill trench to level shown on drawing with type 2.1 road base and compact. Maximum of 150mm thick layers.
15. Install all concrete formwork and steel reinforcement for concrete slab as per the engineering drawings. Reinforcing mesh shall comply with AS4671.
16. Pour concrete slab. Concrete shall be 60MPa HOLCIM concrete mix (25MPa in 1 day).

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17. Cure concrete for 3 full days prior to completing remainder of trench fill. The contractor shall complete a slump test onsite for the concrete slab pour. All concrete work shall comply with AS3600.
18. Fill trench to level shown on drawing with type 2.1 road base and compact. Maximum of 150mm thick layers.
19. Lay new 50 thick DG10 asphalt as shown on the drawing.

Non-Road Crossing Areas;

20. Clear work area as required.
21. Isolate and drain pipelines to be removed as per site procedure.
22. Conduct trench excavation to the extent required to remove existing pipe.
23. Remove pipes in lengths that are easily managed.
24. Complete excavation of trench as shown on the drawing.
25. 100mm of bedding sand it to be filled into bottom of trench and levelled prior to installing new DN250 4mm thick Tufflon P90 coated pipelines.
26. All pipe or pipe fittings to be butt welded as per AS4041. Pipe to be hydrostatically tested as per requirements in AS4041 to 750kPa for 15min.
27. Bury pipes in trench with bedding sand to 100mm coverage.
28. Fill trench with clean fill and compact. Maximum of 150mm thick layers.
29. Leak test above ground flange connection either side of road prior to returning to full service.
30. Remove safety barriers and demobilise from site.

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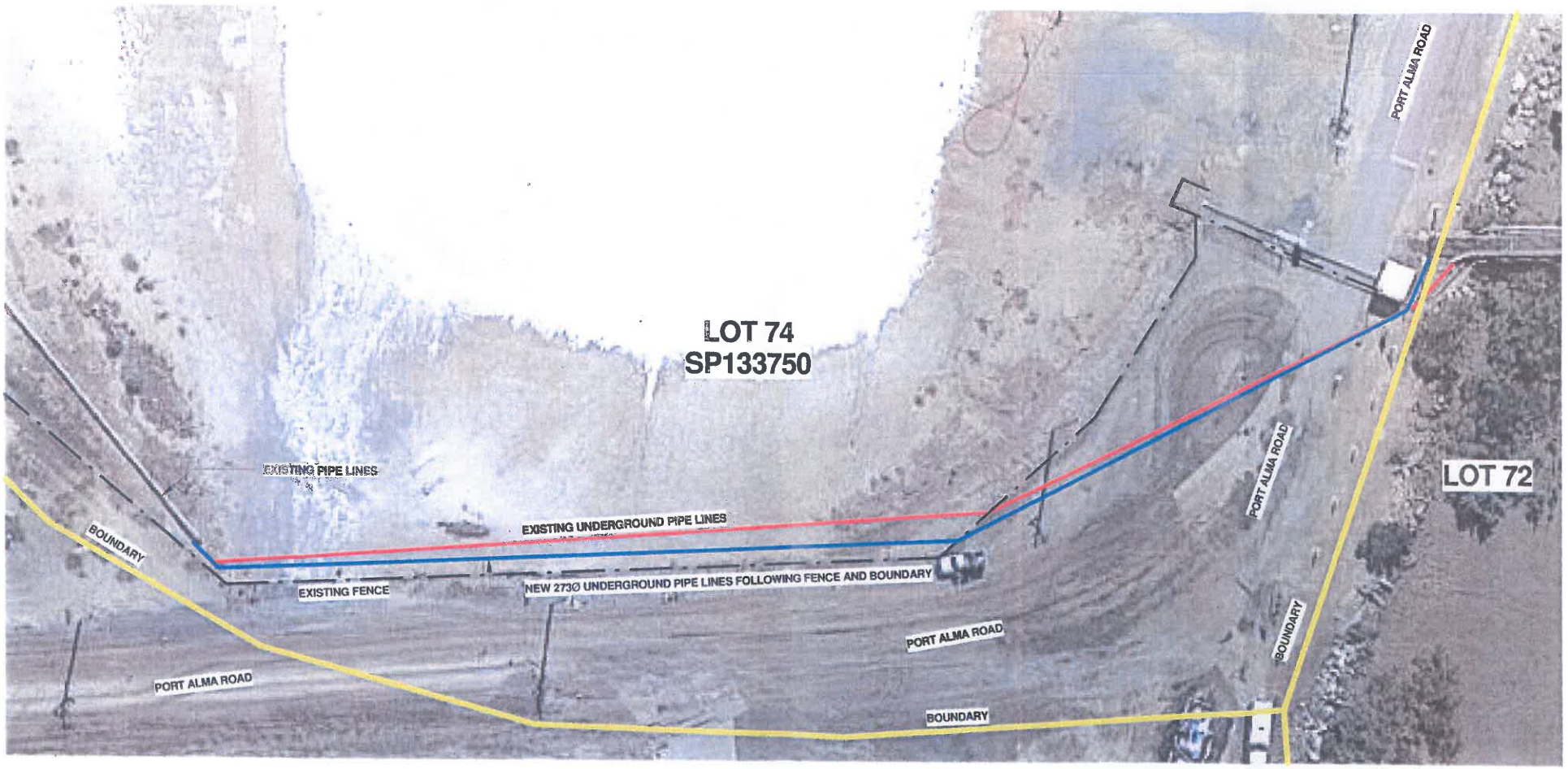
NOTE: VIEW THIS SHEET IN COLOUR



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1 LOCATION PLAN

APPROVED
MARK FROST
RPEQ 9017

PROPOSED PIPELINE
AT LOT 74 PORT ALMA ACCESS RD, PORT ALMA.
FOR PORTSIDE STORAGE PTY. LTD.

CENTRAL DRAFTING SERVICES
the design professionals
Ph. Adam 044 8686 414
Email. agosztyla@hotmail.com
Lic No. 24305 QBSA Act 1991

Copyright	25/03/19	Drg No.	WD-2396
Scale	A3		LOCATION PLAN
Drawn	A.G.		
Amended		Sheet No.	1 of 2

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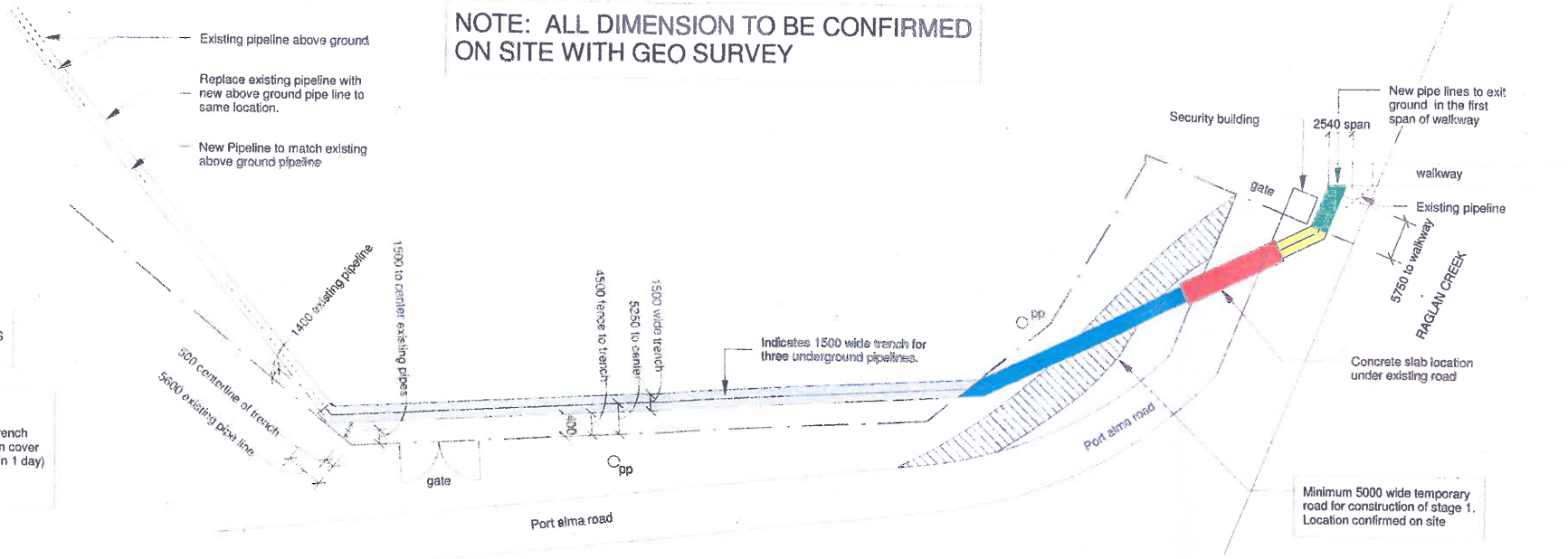
NOTE: ALL DIMENSION TO BE CONFIRMED ON SITE WITH GEO SURVEY

LEGEND:

- STAGE 1
- STAGE 2
- STAGE 3
- STAGE 4
- STAGE 5

NOTE:
CATHODIC PROTECTION DETAILS TO B SUPPLIED BY CLIENT.

CONCRETE SLAB:
- 200 thick slab over road crossing
- Extend slab 300mm either side of trench
- SL82 Mesh top & bottom with 50mm cover
- 60MPa HOLCIM concrete (25MPa in 1 day)
- 20mm max aggregate
- 120mm slump



1 PLAN VIEW
NOT TO SCALE

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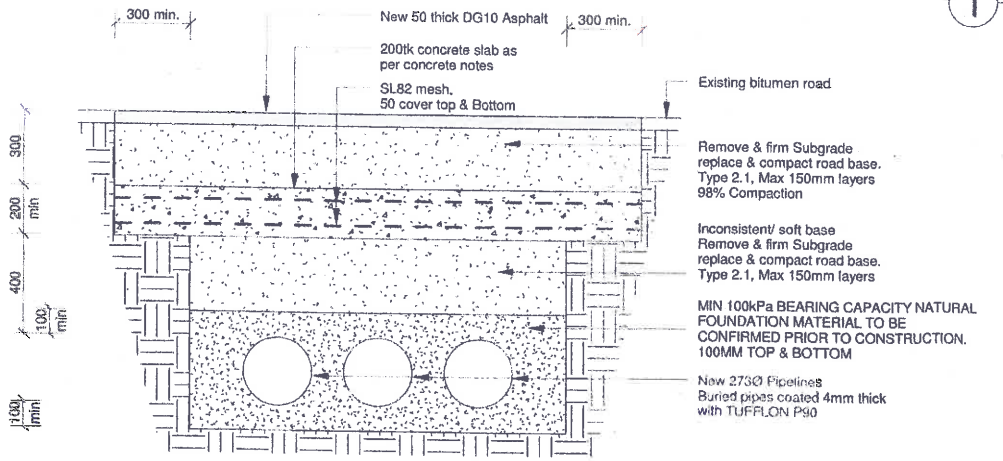
MARK FROST
RPEQ 9017



2 SECTION THROUGH ROAD
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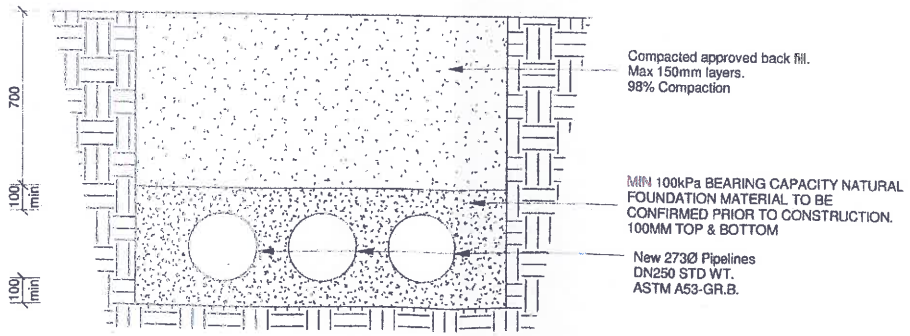

3 SECTION TYPICAL
1:20

PROPOSED PIPELINE
AT LOT 74 PORT ALMA ACCESS RD, PORT ALMA.
FOR PORTSIDE STORAGE PTY. LTD.

CENTRAL DRAFTING SERVICES
the design professionals
Ph. Adam 044 8686 414
Email. agosztyla@hotmail.com
Lic No. 24305 QBSA Act 1991

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Amended			

Drg No. WD-2396
PIPELINE PLAN VIEW
Sheet No. 2 of 2

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EASTCOAST
TRAFFIC CONTROL

INFORMATION ONLY

Date: 21/03/2019 **Author:** Joe Townsend TMD # OP128 **TGS Drawing Number:** 1a

Comments:

Type of Works: Road Works
Where: Bajool Port Alma Rd, Port Alma
Date of Works: April 2019
Time of Works: 0600 - 1800
Drawing not to scale
Signage Based off MUTCD Part 3 Ninth Edition 2018

Site Contact: Greg Lott 0428 638 818
ECTC Nominated Traffic Officer: Joe Townsend 0438 381 016

Drawing 1a

Joe Townsend
TMD # OP128

East Coast Traffic Control Pty Ltd
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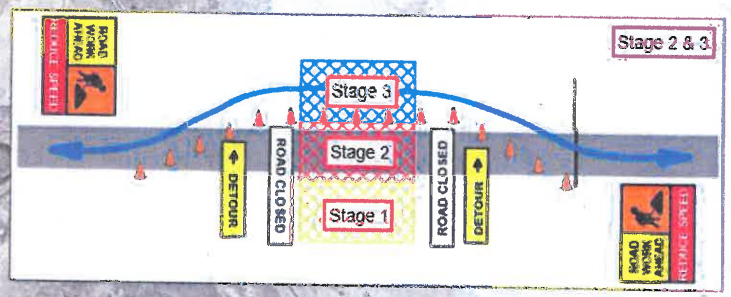
If ECTC is not the responsible contractor for implementing the requirements of this plan ECTC takes no responsibility for any accident, incident or other issues that may arise

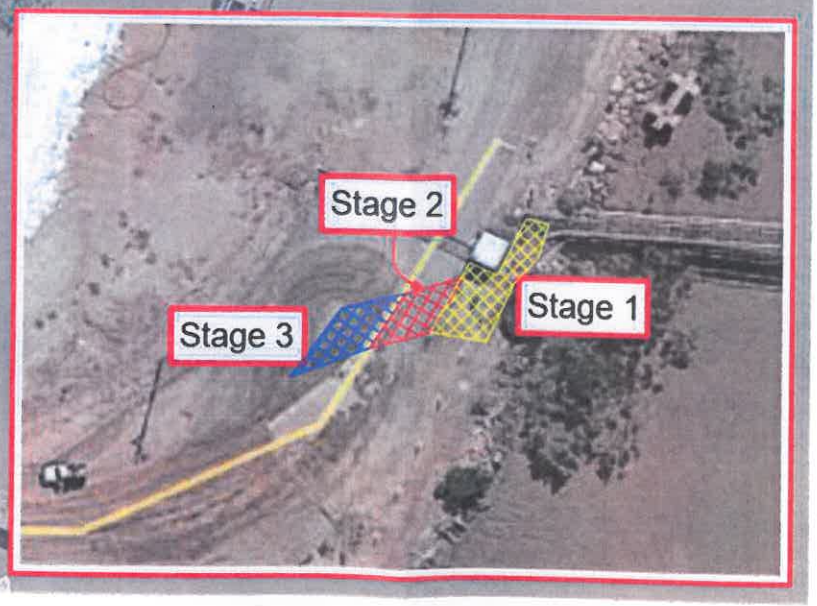
Posted Speed of Bajool Port Alma road at the point is 20kph
Only Authorised Vehicles use this section of road to go past the Security Gate
Works to be done in Stages, Detour in place whilst concrete cures
Detour to divert Traffic Around the work zone to access the Security Gate



Security Gate

Security Building

Bajool Port Alma Rd



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Job Safety & Environmental Analysis (JSEA)

PORTSIDE STORAGE PTY LTD

JSA Details			
Work activity:	Pipeline Removal and Replacement	Location & Date:	Port Alma Lot 47
Who are involved in the activity:	Portside Storage, Onsite Fabrication, CQ Cranes,	This JSEA has been authorised by: Name:.Greg Lott..... Position: Manager..... Signature:..... Date:..15th April 2019.....	
Plant and equipment to be used:	Cranes, excavators, welders, power tools, generators, oxy cutter, plate compactor		
Maintenance checks required (e.g. testing and tagging of electrical equipment, prestart checks of vehicles etc.):	Lifting slings and chains tested and certified, all electrical equipment tested and tagged, all trucks and machinery registration up to date		
Tools to be used:	Grinders, wire brushes, impact wrench, spanners		
Materials to be used:	250 NB Pipe		
Personal protective equipment:	Welding helmet, welding gloves, PPE gloves, long sleeve shirt and long pants, steel cap safety boots,		
Certificates, permits (e.g. hot works, confined space, crane lift, isolation etc.) and/approvals required	Hot work permit, confined space permit, crane lift		
Relevant legislation, codes, standard SDSs etc. applicable to this activity	AS4041, AS4671, AS3600, MUTCD Part 3 Ninth Edition 2018		

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Health and Safety Risk Matrix

Determine the Risk Rating (Level of Risk)

For each Consequence Category selected, determine the Risk Rating (Level of Risk) from the relevant Consequence and Likelihood Levels.

Risk Rating (Level of Risk) = Consequence x Likelihood.

Select the Likelihood. Select the appropriate Likelihood or Frequency rating of the Risk Event occurring for the selected Consequence level, given the controls are in place.

Select the Consequence. For the given Risk Event select the relevant Consequence categories and apply a rating. The ratings are determined with the existing controls in place.

Where there are multiple ratings for a risk, the highest combination of Consequence/Likelihood is taken as the final risk rating (do not average out the ratings).

Note: There are 3 types of risk ratings:

Inherent - no controls in place or total control failure; **Current** - with existing controls in place; **Residual** - with proposed treatment action plans (TAPs) in place.

Curtin requires the **Current** risk rating (as a minimum).

LIKELIHOOD DESCRIPTION					
LIKELIHOOD	The event may occur only in exceptional circumstances.	Not expected but the event may occur at some time.	The event could occur at some time.	The event will probably occur in most circumstances.	The event is expected to occur or has occurred and is continuing to impact.
FREQUENCY	Less than once in 10 years.	At least once between 5 and 10 years.	At least once between 1 and 5 years.	Once per year.	More than once per year.
PROBABILITY	<10%	10% - <35%	35% - <65%	65% - <90%	>90%

CONSEQUENCE DESCRIPTION		Consequence Level	Likelihood Level				
IMPACTS							
Environment	**Health and Safety**		**Rare**	**Unlikely**	**Possible**	**Likely**	**Almost Certain**
Permanent environmental damage to an extensive area outside of campus; Sole contributor responsible for direct GHG emissions AND majority of current practice does not meet good practice standards.	Fatality Permanent Total Disability	**Critical**				Extreme	
Long term environmental damage extending to a large area requiring high level of intervention; Significant contributor responsible for direct GHG emissions AND majority of current practice does not meet good practice standards.	Significant/extensive injury or illness. Permanent Partial Disability	**Major**			**High**		
Short term environmental damage requiring some intervention; Partial contributor responsible for direct GHG emissions AND majority of current practice does not meet good practice standards.	Serious injury or illness. Lost time injury >10 days	**Moderate**		**Medium**			
Short term environmental damage affecting a small area, easily remediated; Partial contributor responsible for indirect GHG emissions AND majority of current practice does not meet good practice standards.	Injury or illness requiring medical treatment Lost time injury <10 days	**Minor**	**Low**				
Minimal environmental damage affecting a very small area, immediately remediated.	Injury or illness requiring First Aid treatment No lost time injury days	**Insignificant**					

JSEA – Action steps

Step No	Job step details (list the steps involved in the job)	Potential hazards	Consequence	Likelihood	Risk Level	How to control risks	Consequence	Likelihood	Residual Risk Level	Name of person(s) responsibl for implementing controls
1	Site Set Up	1-Soft uneven ground	Minor	Rare	Low	1-Level uneven ground and gravel soft soil areas.	Insignificant	Very rare	Very low	Civil Contractor Greg Lott
		2-Under ground service wires/cables	Moderate	Unlikely	Medium	2-Use underground service locators and dial before you dig to locate and isolate all wires, cables and pipes	Minor	Rare	Low	
		3-Waste materials/water	Minor	Rare	Low	3- Construct bunded area at terminal for evaporation of excess water and for treatment of ASS & PASS	Insignificant	Very rare	Very low	
		4-Unauthorised work	Minor	Rare	Low	4-Check paperwork, consult with Colin Munro & get approval to work	Insignificant	Very rare	Very low	
2	Unload Pipes	1-Pipeline slips and swings	Minor	Rare	Low	1-Appropriate lift slings and chains. Stay clear of pipeline when lifting and use guide ropes.	Insignificant	Very rare	Very Low	Dog man & crane operator Greg Lott
		2-Overhead power lines	Minor	Rare	Low	2- Always maintain safe distance away from power lines and have a spotter on site	Insignificant	Very rare	Very Low	

3	Welding and Fabricating Pipeline	1-Electrocution	Minor	Rare	Low	1-All electric equipment Tested & Tagged.	Insignificant	Very rare	Very low	Welding Contractor Greg Lott
		2-Skin burns and eye injury	Moderate	Unlikely	Medium	2-Appropriate PPE Welding masks and gloves, long sleeve shirt and long pants.	Minor	Rare	Low	
		3-Igination Sources	Minor	Rare	Low	3-Remove all flammable & combustible materials from site. Fire extinguisher present at all times	Insignificant	Very rare	Very Low	
		4-Leak Detection	Minor	Rare	Low	4-Air pressure test each pipe & joint				
4	Excavation and Digging of trench	1-Undergroung electrical & communication cables	Minor	Rare	Low	1-Use underground service locator to identify and mark any cables. Call dial before you dig to get confirmation of site layout.	Insignificant	Very rare	Very low	All hours Vac & Dial before you D Excavation Contractor
		2-Contaminated soil	Minor	Rare	Low	2-Any contaminated soil will be removed to Nugrow.	Insignificant	Very rare	Very low	
		3-Soft & muddy soil	Moderate	Unlikely	Medium	3-No digging & shifting of soil during wet/rainy weather.	Minor	Rare	Low	
		4-ASS & PASS	Minor	Rare	Low	4-Test for ASS & PASS if necessary, treat with lime.	Insignificant	Very rare	Very low	
		5-Trench wall collapse	Moderate	Unlikely	Medium	5-Keep machinery & worker away from the edge of trench wall & erect barricades.	Minor	Rare	Low	
		6-Traffic on Road way	Moderate	Unlikely	Medium	6-Signs, barricades & cones in place, follow traffic management plan.	Minor	Very rare	Very low	
		7-Water in trench	Moderate	Unlikely	Medium	7-Take water to Terminal for evaporation in constructed bund.	Minor	Very rare	Very low	East Coast Traffic Control

5	Laying Pipeline in trench	1- Pipe slipping & swinging	Minor	Rare	Low	1-Use guide ropes on both ends of pipeline.	Insignificant	Very rare	Very low	CQ Cranes Greg Lott
		2- Over head powerlines	Moderate	Unlikely	Medium	2-Spotter present on site when working near powerlines	Minor	Rare	Low	
		3--Trench wall collapse	Minor	Rare	Low	3-Keep crane and workers away from edge of trench wall & erect barricades	Insignificant	Very rare	Very low	
6	Pipeline Burial	1- Trench wall collapse	Minor	Rare	Low	1-Remain clear of edges	Insignificant	Very rare	Very low	Machine Operator
		2- Impact with machinery	Minor	Rare	Low	2-Correct PPE (High Vis)	Insignificant	Very rare	Very low	Greg Lott
		3- Wet Weather	Minor	Rare	Low	3-Watch weather forecasts no work during wet weather	Insignificant	Very rare	Very low	
7	Hydrostatic test	1-Contaminated Water	Minor	Rare	Low	1-Use new clean pipes, Reuse water, return water to Terminal	Insignificant	Very rare	Very low	Norosco (test certificate)
		2-High pressure	Minor	Rare	Low	2-Release valves slowly, monitor pressure gauge	Insignificant	Very rare	Very Low	Greg Lott
		3-Moisture inside pipeline	Moderate	Unlikely	Medium	3-Dry with pigging and blowing warm dry air	Minor	Rare	Low	
8	Removal of Old Pipe	1-Undergroung electrical & communication cables	Minor	Rare	Low	1-Use underground service locator to identify and mark any cables. Call dial before you dig to get confirmation of site layout.	Insignificant	Very rare	Very low	Excavator operator Metal Recycler All hours Vac
		2-Above ground services & structures	Minor	Rare	Low	2-Spotter present on site when working near powerlines	Insignificant	Very rare	Very low	Greg Lott
		3-Ass & PASS	Minor	Rare	Low	3-Test for ASS & Pass if necessary, treat with lime	Insignificant	Very rare	Very low	
		4-Product Spill	Moderate	Unlikely	Medium	4-Vac pipeline to remove last of any product, contain with spill absorbents and or bunds. Remove with Vac truck to Nugrow, Spill kit at site	Minor	Rare	Low	
		5-Contaminated water	Moderate	Unlikely	Medium	5-Watch weather forecast no work during wet weather	Minor	Rare	Low	
		6-Pipe Litter	Minor	Rare	Low	6-Cut to length remove from site ASAP	Insignificant	Very rare	Very low	

9	Reclamation of Old Pipeline	1-Contaminated Soil 2-Impact with machinery 3-Wet weather	Moderate Minor Minor	Unlikely Rare Rare	Medium Low Low	1-Remove to Nugrow for processing 2-Correct PPE (High Vis) 3-Watch weather forecasts no work during wet weather	Minor Insignificant Insignificant	Rare Very rare Very rare	Low Very low Very low	Machine Operator All hours Vac Greg Lott
10	Replacement of Roadway Surface	1-Traffic 2-Impact with machinery 3-Wet weather	Moderate Minor Moderate	Unlikely Rare Unlikely	Medium Low Medium	1-Traffic management, correct signage, barricades, cones in place. Consult with port management on Port usage. 2- Correct PPE (High Vis) 3-Watch weather forecasts no work during wet weather	Minor Insignificant Minor	Rare Very rare Rare	Low Very low Low	East Coast Traffic Control Civil Contractor Greg Lott
11	Worksite Security	1-Uncontrolled access 2-Access to card reader 3-Non-accredited persons	Moderate Moderate Moderate	Unlikely Unlikely Unlikely	Medium Medium Medium	1-Port access accredited person to supervise whilst security fence open, replace fence ASAP, never leave fence open & unattended by accredited person, only perform this work when no ship in Port, 2-Do not place soil piles so as to obstruct access to card readers, Barricade trenches to maintain safe access to card readers, use underground service location to identify cable to card reader 3-Escort by MSIC & Port pass holder	Minor Minor Minor	Rare Rare Minor	Low Low Low	Greg Lott Civil Contractor

12	Site Cleanup & Demobilization	1-Uneven ground surface	Moderate	Unlikely	Medium	1-Level ground surface with gravel and hard pack top soil.	Minor	Rare	Low	Civil Contractor Greg Lott
		2-Excess Construction material	Minor	Rare	Low	2-Remove all material & machinery	Insignificant	Very rare	Very low	
		3-Site security	Minor	Rare	Low	3-Repair any fences & Replace any signage	Insignificant	Very rare	Very low	

This job safety analysis has been developed through consultation with our employees and has been read, understood and signed by all employees undertaking the works:			
Print Names:	**Signatures:**	**Position:**	**Dates:**
Greg Lott			
Roger Walep			

Review No	01	02	03	04	05	06	07	08	09
Initial:									
Date:									

APPROVED

Subject: CEMP

From: Greg Lott (bulkliquidstorage@yahoo.com.au)

To: careys@gpcl.com.au;

Cc: horsfallj@gpcl.com.au;

Date: Monday, 4 March 2019, 15:06

Hi Sam

I will outline how we would plan to prevent any environmental harm whilst renewing our pipelines.

Pipeline will be purged by pigging to further remove any product that may be left in it. The other pipeline or Tallow line is not liquid at ambient temperature and is unlikely to cause any problem.

Absorbent pads & Spill Kit will be available at the work site. A Vac Truck would be used to remove any product that may spill as the pipes are cut into pieces. All pipes when cut into lengths will be removed from site ASAP.

Any soil that is contaminated with our products will be removed to an accredited waste disposal facility. (Nugrow at Gracemere). Any soil or gravel that is replaced by new Road Base would be taken to Portside Storage Terminal where it would be Tested and if necessary treated with Lime for ASS. This would happen in a bunded area at our site.The soil or gravel would never leave our site, it would be used for bottom fill on our site at a later time.

Any water or slop that has to be removed from the trench will be taken by Vac Truck to a prepared bund in our yard and allowed to evaporate.

To minimize any problem with the Trench filling with water from rain or other wise, the Trench will only be dug in Stages and each stage and completed and backfilled ASAP.

Works on trenches would only be done in fine weather.

When completed the 3 Pipelines would be hydrostatically tested using only fresh water. When finished with the water it would be transferred back to our site and allowed to pass through our interceptor system. The water would only be clean water from new pipes. The pipes would then be pigged ,then be Air dried and made ready for use. At each stage of completion the pipes would be air tested to look for leaks. the hydrostatic test being the final test.

A JSA would be done for each stage of the work and all of the above would be included.

Regards
Greg Lott