

TECHINCAL MEMORANDUM

DATE April 2022

TO Mackenzie Valley Land and Water Board

FROM NTPC

Taltson Overhaul- Type A LUP MV2020X0004- Project Update

A refurbishment of key infrastructure at the facility began in 2020 to ensure the continued reliability of power generation for the South Slave Region. The refurbishment for supporting infrastructure on the site included of the replacement of the facilities for staff lodging, replacement of maintenance buildings, construction of additional storage areas, operation of existing quarries and the construction and operation of a winter road to transport equipment and materials. In 2019 NTPC obtained Type B WL MV2019L8-0008 and Type A Land Use Permit (LUP) MV2019F0015 to regulate the construction and operation of the Taltson Winter Road. The refurbishment for supporting infrastructure at the facility is regulated by Type A LUP MV2020X0004 issued in 2020.

The scope of the refurbishment for supporting infrastructure on the site was presented in detail in the initial application submitted in 2020 but detailed design was not completed for all infrastructure. Any updates to the initial application are presented below and in the attached appendices. The schedule for all civil works at Taltson Hydro is included in Appendix A.

New Water Intake:

In 2021 NTPC Dam Safety Engineer advised NTPC that the initial design for the water intake for the replacement staff accommodation was high risk as it is not recommended to run waterlines, irrespective of size, on dams since ruptures could result in wash-out damage and the waterline could be in the way of future maintenance or upgrades required.

To mitigate these risks NTPC developed an updated design and an alternative shallow well option for the water intake. The proposed pumphouse and water intake will be constructed along the shoreline of the Taltson Forebay near the Twin Gorges Dam.

The proposed location of the pumphouse facility, consists of silty clay glacial overburden material, capped with a layer of gravel about 1 m thick (as indicated by test pit excavation). The excavated material will be saturated and not suitable as backfill and will therefore be disposed of in a suitable spoil area. Clean pitrun gravel available from a site borrow pit will be used for backfilling the inlet and around the well casing. The intake well will consist of an HDPE Perforated Manhole, and perforated drainpipes will be installed to enhance water flow through the fill gravel from the Forebay to the Well.

The inlet will be excavated to a depth of approximately 4 m, or to an elevation of 237 m, and lined with a non-woven geotextile filter fabric, overlapped at the joints to a minimum of 1.5 m. The maximum width of the trench below the High-Water Mark within the forebay will be approximately 4.8 m wide. A layer of pitrun gravel 1 m thick shall be placed over the filter fabric along the invert of the inlet prior to installation of the well and perforated drainpipes. The well, or HDPE perforated manhole, shall be lifted into place using the lifting lugs provided on the exterior and set on the bedding gravel and leveled. The work, (excavation, installation of well and drainpipes then backfilling), shall be carried out in a timely manner to minimize



instability of the excavation. The total excavation and backfill material for the Project is estimated to be 200 m3.

- Erosion and Sediment and Control Measures will be installed prior to in water work as per the Taltson Hydro- Construction of Replacement Facilities and Overhaul- Erosion and Sediment Control Plan
 - o Silt fence on shore and turbidity curtain in the water
 - Fish isolation of the working area will occur as required by Department of Fisheries and Oceans
 - TSS monitoring will occur during active in-water construction
- Excavation of approximately 85 cubic metres (m3) of material at the shoreline with approximately 63 m3, or footprint of 36.5 m2 square metres (m2), of the excavation transpiring below the highwater mark in wetted conditions.
 - Intake is located in a previously cleared area therefore no clearing or grubbing of riparian vegetation is anticipated
- Clean 3 inch minus gravel will be used to back fill the excavation. Focused effort will be taken to
 ensure that the gravel backfill within the wetted excavation area conforms with the existing lake
 shore slope and underwater topography. Following the back filling of the wetted excavation area,
 the vertical standpipe workspace will be back filled with clean 3 inch minus gravel and packed to
 approximately 90% proctor.
- Installation of the water intake structure and pumphouse
- Installing a permanent waterline to the camp.

Construction is proposed to commence July 16, 2022 which is in accordance with the Department of Fisheries and Oceans Timing Windows for the Protection of Fish and Fish Habitat NWT Zone 1. The duration of in-water works is expected to occur over 3 days. The latest anticipated date of completion of construction is August 14, 2022. The detailed schedule is provided in Appendix A. Design drawings for excavation and installation of the water intake and pumphouse are attached in Appendix B.

Fuel Storage:

Additional fuel storage will be needed on site to run the facility on back-up diesel generation during the extended shutdowns and to account for the increased staffing on site. Four 90,000L double walled diesel storage tanks and one 1,000L double walled gas tank will be installed on site for additional fuel storage for the project. The tanks will be installed on NTPC owned lands adjacent to the existing double walled fuel tank. The diesel tanks will be hard piped to the backup generator. The layout, design and vendor drawings for the fuel storage are provided in Appendix C.

Hazardous Waste Storage:

To ensure proper capacity for increased amounts of hazardous waste a lined hazardous waste berm storage area will be constructed at the airstrip. The berm was initially 30m x 20m with a 0.75m berm around the storage around with a gate for trucks to drive in/out if required. Based off of a reassessment of hazardous materials provided in the updated Waste Management Plan and the timing of shipments of waste off of site the design has been reduced for efficiency to 15m x 15m 0.75m and slightly moved to an area where less vegetation clearing and earthworks is required for efficiency to reduce cost and minimize environmental impact. A design drawing for the Hazardous Waste Storage is provided in Appendix D.



Temporary Sewage Lagoon

A temporary sewage lagoon will be constructed on the site road to the South Valley Spillway. This lagoon will be used for the sewage from 4 portable toilets that will be placed outside the plant during the overhaul. The temporary sewage lagoon is proposed for the waste from the 4 portable toilets to minimize risk to the septic system for the accommodation buildings during the temporary staffing peaks. It is estimated that 12 people would be using the sewage lagoon. Conservatively assuming each person creates 6L of waste per day over the 8 month period for the overhaul the total storge required in 17.3m^{3.} Lime will be applied before closure. A design drawing for the temporary sewage lagoon is provided in Appendix E.



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April 2022

Appendix A- Project Schedule

					Taltson Program	n Schedule			
)	Task Mode	Task Name	Duration	Start	Finish	% Complete			122
102		TALTSON 2022 SITE ACTIVITY CONSTRUCTION	209.7 days	Mon 2/21/22	Wed 10/12/22	0%			
103	-,	CIVIL WORKS	140.1 days	Tue 4/5/22	Wed 9/7/22	0%			
104	-	PROCUREMENT	15 days	Tue 4/5/22	Fri 4/29/22	0%			
105		Milestone: RFP Issued for Bid	0 days	Tue 4/5/22	Tue 4/5/22	0%			
106		Milestone: Contract Award & Execution	0 days	Fri 4/29/22	Fri 4/29/22	0%			
107	-,	INSTALLATION	89.4 days	Tue 4/5/22	Wed 9/7/22	0%			
108		Milestone: Mobilization	0 days	Wed 6/29/22	Wed 6/29/22	0%			
109		Milestone: Demobilization	0 days	Sat 7/9/22	Sat 7/9/22	0%			
110		ESCP Measures Install	2 days	Wed 6/29/22	Fri 7/1/22	0%			
111		Runway/Airstrip Tree Clearing	8 days	Mon 8/29/22	Wed 9/7/22	0%			
112		Temporary Sewer Lagoon	8 days	Sun 7/10/22	Tue 7/19/22	0%			
113		Hazmat Lined Berm/Storage	4 days	Tue 7/19/22	Sat 7/23/22	0%	_		
114	-	Stoarage Area A&B/Quonset Area Prep	8 days	Wed 6/29/22	Fri 7/8/22	0%			
115	*	Milestone: Kick off Meeting - Cobra Structures	0 days	Tue 4/5/22	Tue 4/5/22	0%			
116		Quonset Set up	24 days	Fri 7/8/22	Thu 8/4/22	0%			
117		Fuel Storage Area Prep/Tank Replacement	4 days	Wed 6/29/22	Sun 7/3/22	0%	_		
118		Contactor Concrete Pad	5 days	Sun 7/3/22	Sat 7/9/22	0%			
119	-9	WATER SUPPLY TO CAMP/BEAR FENCE INSTALL	130.7 days	Wed 4/27/22	Mon 9/19/22	0%			
120	-3	PROCUREMENT	15 days	Wed 4/27/22	Tue 5/24/22	0%			
121		Milestone: RFP Issued for Bid	0 days	Wed 4/27/22	Wed 4/27/22	0%			
122		Milestone: Contract Award & Execution	0 days	Tue 5/24/22	Tue 5/24/22	0%			
123		INSTALLATION	46.6 days	Wed 6/29/22	Mon 9/19/22	0%			
124	->	Milestone: Mobilization	0 days	Wed 6/29/22	Wed 6/29/22	0%			
125	->	Milestone: Demobilization	0 days	Sun //31/22	Sun //31/22	0%			
126	-9	Beartence Install	8 days	Mon 9/5/22	Mon 9/19/22	0%			
127	->	Pumphouse Well Install	5 days	Sat //16/22	Thu //21/22	0%	-		
128	->	Prep for waterline Route	2 days	Inu //21/22	Sat 7/23/22	0%	_		
129	->	Pumphouse Building	6 days	Sat 7/23/22	Sat 7/30/22	0%			
130				Sat //23/22	Sun 7/31/22	0%			
121	->		10 days	Mon 2/21/22	Wed 6/29/22	0%			
132	->	Milostone: BED Issued for Bid	19 uays	Mon 2/21/22	Mon 2/21/22	100%			
133		Milestone: Contract Award & Execution	0 days	Eri 2/25/22	Eri 2/25/22	100%			
135			28 45 days	Tue 5/10/22	Wed 6/29/22	0%			
136		Milestone: Mohilization	0 days	Tue 5/10/22	Tue 5/10/22	0%			
137		Milestone: Demobilization	0 days	Wed 6/29/22	Wed 6/29/22	0%			
138		Install Fire Water Feed Line & Valves from Camp Mechanical Room to Fire Water	5 days	Tue 5/10/22	Thu 5/19/22	0%			
139	-5	Install Domestic Water Piping in Existing Mechanical Room	6 days	Thu 5/19/22	Tue 5/31/22	0%	-		
140		Install Electrical Connections, Wiring, Breakers & Disconnects on Kitchen Exhaust	6 days	Tue 5/31/22	Fri 6/10/22	0%			
		Fan & Kitchen MUA Unit							
141		Commissioning of Water System	1 day	Fri 6/10/22	Sat 6/11/22	0%			
142		Install & Commissioning Walk in Cooler & Freezer Equipment	2 days	Sat 6/11/22	Mon 6/13/22	0%			
143		Install Evaporators, Condenser & Drains, & 6 A/C Condensers	5 days	Mon 6/13/22	Sun 6/19/22	0%			
144	->	Repair or Replace Heat Trace Run & Level & Secure Insulated Sewer Line Between two Chamber Septic Tank & Pump Tank	2 days	Sun 6/19/22	Tue 6/21/22	0%			
145		Install Myers Lift Pump in Septic Pump Tank	1 day	Tue 6/21/22	Wed 6/22/22	0%			
146		Level & Secure Insulated Sewer Lines Between Two Chamber Septic Tank & Pump Ta	ar5 days	Wed 6/22/22	Tue 6/28/22	0%			
147	*	Commissioning of Septic Field	1 day	Tue 6/28/22	Wed 6/29/22	0%			
148	-	GENSET MECHANICAL/ELECTRICAL	115.5 days	Mon 4/4/22	Wed 8/10/22	0%			
149		PROCUREMENT	15 days	Mon 4/4/22	Fri 4/29/22	0%			
150		Milestone: RFP Issued for Bid	0 days	Mon 4/4/22	Mon 4/4/22	0%			
151	-,	Milestone: Contract Award & Execution	0 days	Fri 4/29/22	Fri 4/29/22	0%			
152		INSTALLATION	22.4 days	Sun 7/3/22	Wed 8/10/22	0%			
	+ 2022	Task Summary	nactive Milestone	*	Duration-only		Start-only	C	External Miles
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					Taltson Progran	n Schedule	
ID	Task Mode	Task Name	Duration	Start	Finish	% Complete	2021 2022 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3
153	-,	Milestone: Mobilization	0 days	Sun 7/3/22	Sun 7/3/22	0%	
154		Milestone: Demobilization	0 days	Mon 7/25/22	Mon 7/25/22	0%	
155		Genset Fuel System	14 days	Sun 7/3/22	Tue 7/19/22	0%	
156		Electrical Installations ie. Cable Tray, Wiring	14 days	Sun 7/3/22	Tue 7/19/22	0%	
157		Genset Transformer Install	4 days	Tue 7/19/22	Sat 7/23/22	0%	
158		Contactor Install	4 days	Wed 7/20/22	Mon 7/25/22	0%	
159	*	Contactor Connection (During Shutdown)	3 days	Sun 8/7/22	Wed 8/10/22	0%	
160		OVHERHEAD WORK	178.7 days	Mon 3/28/22	Wed 10/12/22	0%	
161		PROCUREMENT	15 days	Mon 3/28/22	Thu 4/21/22	0%	
162		Milestone: RFP Issued for Bid	0 days	Mon 3/28/22	Mon 3/28/22	0%	
163		Milestone: Contract Award & Execution	0 days	Thu 4/21/22	Thu 4/21/22	0%	
164		INSTALLATION FIBRE LINE	15.4 days	Thu 9/15/22	Wed 10/12/22	0%	
165		Milestone: Mobilization	0 days	Thu 9/15/22	Thu 9/15/22	0%	
166		Milestone: Demobilization	0 days	Wed 10/12/22	Wed 10/12/22	0%	
167		Site Orientation, Organize Material & Confirm Line is Not Energized	2 days	Thu 9/15/22	Sat 9/17/22	0%	
168		Fibre Line	16 days	Sat 9/17/22	Wed 10/5/22	0%	
169	*	Eqiupment Required	16 days	Sat 9/24/22	Wed 10/12/22	0%	
170		INSTALLATION INTERNAL RESOURCES	20 days	Fri 7/8/22	Sat 7/30/22	0%	
171		Install New Power Pole Near Pole C	1 day	Fri 7/8/22	Sat 7/9/22	0%	
172		Install New Power Pole & Transformer for Pumphouse Services	1 day	Mon 7/18/22	Tue 7/19/22	0%	
173		Install New Platform & Transformer for Quonset Power Supply	1 day	Fri 7/29/22	Sat 7/30/22	0%	
174		IN PLANT ELECTRICAL	62.05 days	Mon 5/9/22	Sun 7/17/22	0%	
175		PROCUREMENT	15 days	Mon 5/9/22	Fri 6/3/22	0%	
176		Milestone: RFP Issued for Bid	0 days	Mon 5/9/22	Mon 5/9/22	0%	
177		Milestone: Contract Award & Execution	0 days	Fri 6/3/22	Fri 6/3/22	0%	
178		INSTALLATION	6.05 days	Wed 7/6/22	Sun 7/17/22	0%	
179		Milestone: Mobilization	0 days	Wed 7/6/22	Wed 7/6/22	0%	
180		Milestone: Demobilization	0 days	Sun 7/17/22	Sun 7/17/22	0%	
181		Electric Heater Installation	10 days	Wed 7/6/22	Sun 7/17/22	0%	
182		Camp Vehicle Plugins	3 days	Wed 7/6/22	Sat 7/9/22	0%	

Project: 2022-03-23 Taltson Pro	Task Split	1 1	Summary Project Summary	Inactive Milestone Inactive Summary	• 1 1	Duration-only Manual Summary Rollup		Start-only Finish-only	с Э	External Milesto Deadline
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						Page 4				





Manual Progress



Appendix B- Design Drawings for Water Intake



NO.	IES:				
1.	WELL CASING SH SHALL BE PERFO	IALL HAVE A DRATED AT 15	BOTTOM PLAT Omm [6"] CE	E, BOTTOM 1.8m [NTRES	6'] OF CASING
2.	THE EXISTING SH CONSTRUCITON	ORELINE SHA	ll remain un	CHANGED FOLLOW	ING
3.	EXCAVATE INLET	AS SHOWN, I	EXCAVATED M	ATERIAL TO SPOIL	PILES
4.	BACKFILL WITH O SITE PRIOR TO E	CLEAN PIT RUI	N GRAVEL FRO	OM PIT "W". STOCH	(PILE FILL NEAR
5.	NON-WOVEN GEO	o textile SH/	ALL BE NILEX	STYLE 4512 OR	APPROVED
6.	(2) DN200 [8"] CAPPED	PERFORATED	PIPES SHALL	EXTEND INTO FOR	EBAY AND BE
7.	INSTALL TEMPOR SILT DURING CO	ARY SILT CUR	TAIN IN FORE	BAY TO MITIGATE	SPREAD OF
8.	LAKE ELEVATION VALLEY SPILLWA	2020/09/05 Y: 239.33m[7	: 240.49m [7 85.20']	789.02'], CREST EL	EV. OF SOUTH
9. STAMP	PUMP HOUSE CC WALLS SHAL TO R20 C/W WHITE EXTER STRUCTURE AND ELECTRE AND ELECTRE AND ELECTRE TO R20 C/W PER CLIENT FLOOR FRAM 19MM [3/4" ONE 915mm FLOOR FRAM 19MM [3/4" BUILDING SH	NNSTRUCTION: L BE STICK FI '9mm [3/8"] IOR METAL SI COMPLETE WI ICAL BE STICK FR '3/4" PLYWO SPEC. ING SHALL BE T&G PLYWOC [36"] MAN D ING SHALL BE T&G PLYWOC ALL BE COMPI RTING PER CL LOCATION	RAMED 2x6 A PLYWOOD SH DING, VAPOUR H 9MM [3/8" AMED 2x6 AT OD ROOF DEC 2x10 AT 410 DD DECK, NO OOR ON SOUT 2x10 AT 410 DD DECK, NO DD DECK, NO LETELY SKIRTT JENT SPEC, IN	T 410mm [16"] O. HEATHING, BUILDING BARRIER ON INSI] INTERIOR PLYWO 410mm [16"] O.C. KING, ICE GUARD Dmm [16"] O.C., C INSULATION. IN WALL OF STRUC Dmm [16"] O.C., C INSULATION. ED, FRAME SKIRTIN ISULATED TO R20	C., INSULATED WRAP AND DE OF OD SHEATHING ., INSULATED AND ROOFING :OMPLETE WITH :TURE :OMPLETE WITH IG WITH 2x6 HWEST TERRITORIES
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Appendix C- Design Drawings for Fuel Storage



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	_	DJW	21JAN21	DC/CB	DC	TENDER	21JAN21	
	_	DJW	11JAN21	DC / DP	DC	DRAFT	11JAN21	
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NOTES:

- 1 UNIT CONFORMS TO ULC-S601-14 SPECIFICATIONS.
- 2 PRODUCTION TESTING: 10 20 kPa (1.5 2.9 psi) AIR TEST.
- 3 DIMENSIONS ARE IN SI UNITS AND MAY VARY DUE TO MANUFACTURING TOLERANCES.
- 4 ALL COMPONENTS ARE SUPPLIED BY WESTEEL UNLESS OTHERWISE SPECIFIED.
- 5 DECALS: WESTEEL AND ULC STANDARD DECALS ARE INSTALLED AS REQUIRED.
- 6 ALL EXTERIOR SURFACES ARE PREPARED WHITE TO WCS-2
- SPECIFICATIONS. ALL INTERIOR SURFACES ARE AS WELDED.
- 7 UNITS c/w DIPSTICKS AND TOUCH-UP

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MARY TANK EMERGENCY VENT 203mm (8")	VENT: MORRISON 2440F
T LUGS	
Imm Dia. ACCESS SPILLBOX - 51mm CAMLOCK DIP RT - 102mm NPT SPARE PORT - 19mm DRAIN PORT	c/w REMOVEABLE FITTING PLATE FOR PRIMARY TANK ACCESS
mm (4") NPT - SPARE PORT (CPLG)	c/w M.I. PLUG
mm (6") NPT - 76mm(3") FILL PORT - RTF / OVERFILL	OVERFILL: OPW-61FSTOP
mm (6") NPT - SPARE PORT (TANK FLANGE)	c/w M.I. PLUG
nm (2") NPT - SPARE PORT (TANK FLANGE)	c/w M.I. PLUG
CONDARY TANK EMERGENCY VENT 203 mm (8")	VENT: MORRISON 2440F
nm (2") NPT - SECONDARY TANK INSPECTION PORT	CAP: MORRISON 379
SE SUPPORT SADDLES	
12 x 26 lb/ft BEAM SKID BASE, AND 4" Sch.40 TOW S	
OUND LUGS	
PENDICULAR STAIRCASE / TOP PLATFORM 40" SQ./ OVALBE HANDRAILS TOP OF TANK AROUND INGS / NON SLIP PAINT TOP OF TANK	c/w GALV. HANDRAILS / 40 DEG STAIRS / GALV. GRATING ON PLATFORM
TICAL DIPSTICK HOLDER	c/w 320 cm (12 ft.) DIPSTICK
nm (2") NPT - WATER DRAW OFF	c/w RED. BUSHING 2"x1", AL. PIPE TO ¹ / ₄ OFF FLOOR, TYPE F & DC CAMLOCK
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	MOUNT (*1) TANK FITTING MOUNT MOUNT MOUNT MOUNT MOUNT MELDED MOUNT MELDED MOUNT MOU			○ - ~ - <u></u>		13 ·● _ ●- ∰		20 ft - MXMS SEL FILLRITE SEL FILLRITE MATERPROF PANTED PANTED FF AND 'G'. FF AND 'G'. FF AND 'G'. FOR STR FOR	W TEMP, X; O 0,75 DIE, CTOR CLAR PRICATED OR ITEMS 0R ITEMS 63" 63" 63"	3/4" LOW RETRAC I × 6.4L × RETRAC I × 6.4L × RETRAC SEL FAB SEL FAB AP AUD SEL FAB MARE FC AP AUD	НОЗЕ НОЗЕ НОЗЕ НОЗЕ 1 иохг 1 иохг 1 ихг 1 и	A63 A63 A63 A63 A63 A63 A63 A63	НОЗЕ НОЗЕ КЕТRACTOR MAST НОЗЕ RETRACTOR MAST НОЗЕ RETRACTOR MAST НОЗЕ RETRACTOR MAST НОЗЕ RETRACTOR MAST НОЗЕ СLAMP ОИТО VET PIPE / RETRAC ОИТО VET PIPE / RETRAC СОЯ ВИЛЬИТО РЕСИРЕ ВЕНЕВТ ООЗЕСИВЕ ВЕТИВЕТО СОЗЕСИВЕ ВЕТИВЕТО СОВЕСИВЕ ВЕТИВЕТО СОВЕСИВЕ ОИТО VET PIPE / RETRAC ОВТЕ СОРЕ ВИЛО РОЗЕСИВЕ ВЕТИВЕТО СОВЕСИВЕ ВЕТИВЕТО СОВЕСИВЕ ВЕТИВЕТО СРЕСИВЕ ОВТЕ ОРТЕ ОИТЕ РОВО ВЕТИВЕТО СОВЕСИВЕ ОВТО ИТО РЕСИВЕ ОВТО ОРТЕ ОРТЕ ОИТЕ РОВО ВЕТИВЕТО ОВТО ИТО РЕСИВЕ ВЕТИВЕТО ОВТО ИТО РЕТРАСОВА ВЕТИВЕТО ОВТО ИТО РОВО ВЕТИВЕТО ОВТО ИТО ИТО РОВО ВЕТИВЕТО ОВТО ИТО РОВО ВЕТИВЕТОВА ВЕТИВАТОВА ВЕТИВЕТОВА ВЕТИВЕТОВА ВЕТИВЕТОВА ВЕТИВЕТОВА ВЕТИВЕТОВА ВЕТИВАТОВА ВЕТИВЕТОВА ВЕТИВЕТОВА ВЕТИВАТОВА ВЕТИВЕТОВА ВЕТИВЕТОВА ВЕТИВАТОВА ВЕТИВЕТОВА ВЕТИВЕТОВА ВЕТИВА ВЕТИВЕТОВА ВЕТИВАТОВА ВЕТИВЕТОВА ВЕТИВЕТОВА ВЕТИВАТОВА ВЕТИВАТОВА ВЕТИВАТОВА В	280468-20 2802469-20 280246 28024 2802 28024 2802 280	г г г г	<u>Е</u> <u>1</u> <u>2</u> <u>2</u> <u>2</u> <u>2</u> <u>2</u> <u>2</u> <u>2</u> <u>2</u> <u>2</u> <u>2</u>
	BUSHING GW TANK PUSHING GW TANK 100mm[4"] TANK FITTING TAIL MOUNT M					اط 		PART MAMS PART MANU WATERPPED PART MANU WATERPPED PART MANU PART MANU PART MANU PART MANU PART MANU PART MANU PART MANU PART MANU PART	TREET 900 M TEMP: A 2005 DIE 2006 CHA 2006 CHA 2006 UFE 06 TEMS 63" 63"	4* 5/5 5/5 5/5 5/5 5/5 5/5 5/5 5/5 5/5 5/	НО56 НО56 НО56 НО56 НО56 НО56 НО56 НО56 НО56 НО56 11 × 21 11 ×	25 662 663 663 663 663 663 663 663 663 663	яткеєт ецвоч нозе иозе кетялотоя кетялотоя нозе кетялотоя нозе кетялотоя нозе кетяло нозе кетяло нозе кетало и тоу челт ріре, уе очт орте, уе соке миле ринте. Соке миле рите. Соке миле ринте. Соке миле ринте. Соке миле рисср соке мист рире. Кетало соке мист рире. Соке миле и соке мист рире. Соке миле и соке мист. Соке миле и соке мист. Соке миле рисср соке мист. Соке миле и соке мист. Соке мист. Соке миле и соке соке соке мист. Соке миле и соке	262751 280468-20 262849 262849 262845 262845 262845 262845 262845 272185 272185 272185 272185 272185 272185 272185 272185 272185 27246405 272465 2725	г г г г	E E E E E E E E E E E E E E
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FABRICATION CODE: ULC S601-14 TANK TYPE: INTEGRAL CONTAINED NOMINAL CAPACITY: 1311 L ± 16 MATERIAL: CARBON STEEL MINIMUM MATERIAL THICKNESS: 2.5 mm MAX. OPERATING PRESSURE: 7 kPa MAX. OPERATING VACUUM: 300 Pa *LIFT LUG NOT CERTIFIED TO LIFT TANK WITH CONTAINING PRODUCT

9	26 MAY 16	REPLACE 2" DRAIN FLG W/1.5" FULL CPLG	L10291C	FR	CDS	DIMENSIONS SHOWN ARE MM	DESND.	DATE	т
8	24 SEPT 15	ADDED DRAIN FITTING	L10267C	HWU	GD	IMPERIAL UNITS ARE IN BRACKETS	FR	28/06/2016	WESTEEL # ^{ar}
7	11 JUL 13	CHANGED FOR HRPO SHEET	L10156C	HWU	CDS	TOLERANCES	DWN.	DATE	
6	27 MAY 13	REV BOM PER SAP, REV T-BLOCK	L10131C	CDS	HWU	(UNLESS OTHERWISE NOTED)	FR	21/09/2015	DRAWING TITLE
5	11 JAN 13	264301 & 264301B WERE 235152	L10114C	HWU	KA	DIMENSIONS: METRIC (mm) IMPERIAL (in.)	CHKD.	DATE	
4	09 MAY 12	ADD BLT/NUT-N7, RMV A.T. DISC, REV NP	L10060C	CDS	JH	$x \pm 2$.x ± .1 .x ± 1.0 .xx ± .03			GE
3	06 SEPT 11	ADD NOTE 8, ANTI-THEFT DISC	L10008F	NK	CS	$.xx \pm .50$ $.xxx \pm .010$	APPD.	DATE	CUSTOMER
NO	DATE	DESCRIPTION	ECR	BY	CH	ANGULAR: ± 1°			WES

Y	DESCRIPTION	REMARKS
	4" NPT TANK FLAGNE c/w 4" X 2" RED	PUMPOUT
	2" NPT TANK FLANGE c/w LOCKING CAP	FILL/VENT
	2" NPT TANK FLANGE c/w CI PLUG	SPARE
	4" NPS VENT COLLAR w/ CAP	PRI E-VENT
	2" NPT PIPE	SEC INSPECTION
	4" NPS VENT ASSEMBLY w/ CAP	SEC E-VENT
	1.5" NPT TANK COUPLING c/w CNTRSUNK PLUG	DRAIN
	LIFTTING LUGS	
	ULC NAMEPLATE	
	ACCESSORY TABS	
	CRADLES	





ITEM	QTY	PART NO.	DESCRIPTION
1	2	262893	HSS 3.0x3.0x.125w A500C-50W 2184 mm
2	4	262896	SKIP CAP 3.0 in TOP 3.4
3	4	262897	SKID CAP 3.0 in BOTTOM 3.4
4	2	263497	TANK MOUNT 3.4 X 38 X 152 X 913
5	2	264524	SKID TOW PIPE ASSEMBLY FV
6	4	264525	BOLLARD & CAP ASSEMBLY
7	2	263498	SKID FORK POCKET 3.4 X 81 X 203 X 1067
8	4	264624	GUSSET FORK POCKET
9	2.000 kg	178138	PNT PWDR WHITE

This drawing is the exclusive property of WESTEEL and all rights are reserved. No part of this drawing may be used or reproduced in any manner whatsnever without written permission from	318.8 lbmass	LOCATION	7
WESTEEL.	QUOTE NO.	ORDER NO.	
ASSY HSS FV22H W/BLRDS	DRAWING NO.		REV.
	263681		1
			SHEET
DESIGN STANDARD		1 of 1	



Appendix D- Design Drawings for Hazardous Waste Storage



AUTOCAD FILE: Z:\PROGRAPH SOLUTIONS\JOBS\086 - NTPC\086-026 - TALSTON DRAFTING CT5482\P109-51776-C1000C (1).DWG



 	7 8	8 9	10	11 12	13 14 15 16	17
					<u>CIVIL LEGEND (EXISTING CONDITIONS)</u>	
					- WATER EDGE	
					- EXISTING PROPERTY LINE	
					EXISTING TREELINE	-
					EXISTING GRAVEL ROAD	
				OE OE	- EXISTING OVERHEAD POWER	
	3 M 63 1 2 5 5	3 ~ 5 ~ - 18	-2,70	UE UE	- EXISTING UNDERGROUND POWER	
					EXISTING UTILITY POLE	-
					EXISTING WATER PIPE	
					- EXISTING SANITARY LINE	
					- EXISTING PENSTOCK	
					EXISTING AIRSTRIP LIGHTING	
				•	EXISTING TELECOMMUNICATION TOWER	
					CIVIL LEGEND (PROPOSED)	
					- PROPOSED EASEMENT	
					PROPOSED CLEARING AREA	
					- PROPOSED BEAR PROOF SECURITY FENCE	-
				······································	- PROPOSED BEAR PROOF SECURITY GATE	
					- FDGE OF GRAVEL	
			1-2-6-6-7-1-5			
						-
		Sel Sen				
	68.05					
		W. oozy				
	EXISTING ACC THE SOUTH VAI	CESS ROAD TO		<u>general notes:</u>		-
	TEMPORARY SEWAGE LAGOON			1. SURVEY TO SET MARKER STAKES TO ES CENTRAL MERIDIAN 111° WEST (NAD83).	STABLISH SITE CONTROL IN UNIVERSAL TRANSVERSE MERCATOR COORDINATES ZONE 12,	
	SEE DRAWING C109-51776-C902)			2. CONTOURS SHOWN ARE FROM OPEN SO THE SPRING OF 2021.	JRCE DATA. ELEVATIONS CRITICAL TO THE DESIGN WILL BE CONFIRMED WITH SURVEY IN	
Control is responsed to the set of the				3. ALL DIMENSIONS ARE IN SI METRIC UNI	S, UNLESS OTHERWISE NOTED.	
				5. THE CONTRACTOR IS RESPONSIBLE FOR REQUIRED TO REMAIN INTACT DURING T	THE PROTECTION OF ALL UTILITIES AND OTHER SITE SPECIFIC FEATURES THAT ARE HE COURSE OF CONSTRUCTION.	-
7 AL. GRANUL 41 PATETAL WILL DE SECONDO AND SUPPORES TRAM SASTE SOLRCES. 8 OPTIMAL_COATION OF BEND TO BE DETERMINED BY NITE ON SMETHEMESTER 0 0 0 0				6. THE CONTRACTOR IS RESPONSIBLE TO P BETTER CONDITION. AS APPROVED BY	RESTORE SITE CONDITIONS, NOT ALTERED BY FINAL CONSTRUCTION, TO THE ORIGINAL OR NTPC OR IT'S AGENT.	
				7. ALL GRANULAR MATERIAL WILL BE SPEC	IFIED AND SUPPLIED FROM ONSITE SOURCES.	
Image: State Image: State<				J. JE HMAL LUGATION OF DERMI TO DE DE	LENNINGED DE NUT O UN OFFE	
- RBP CSANTE COL CANTE FSMIT STARF UDCA: ON TALTSON, NWT Image: CSANTE TALTSON, RUH						
Image: North West Terrationes Image: North West Terrationes <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
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Image: Status Professional stamp Professional stamp Image: Status						
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Image: Second State Image: Second St						
Image: Second						
Image: Construction of the construc				PROFESSIONAL ST	AMP PERMIT STAMP LOCATION	
Image: Composition Image: Composition Image: Composition Image: Composition <td></td> <td></td> <td></td> <td></td> <td>TALTSON, NWT</td> <td>WER</td>					TALTSON, NWT	WER
- KMP 03MAY21 DC DC TENDER 23APR21 - BJB 23APR21 DC TENDER 23APR21 - BJB 23APR21 DC TENDER 23APR21 - DJW 21JAN21 DC / DP DC TENDER 21JAN21 - DJW 21JAN21 DC / DP DC TENDER 21JAN21 - DJW 11JAN21 DC / DP DC DRAFT 11JAN21 WORK NAME DATE CHECKED DESIGNED DATE DATE NOT SCALE 1 + 1 How to the state of the st					CORF	PORATION
- BJB 23APR21 DC TENDER 23APR21 - DJW 21JAN21 DC / DP DC TENDER 21JAN21 - DJW 11JAN21 DC / DP DC TENDER 21JAN21 - DJW 11JAN21 DC / DP DC DRAFT 11JAN21 WORK NAME DATE CHECKED DESIGNED STATUS OF DRAWING DATE V DRAWN BY BY BY BY STATUS OF DRAWING DATE		- KMP 0	D3MAY21 DC DC	TENDER 23APR21	TITLE TALTSON REHABILITATION PROJE	ECT
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ORDER DRAWN BY BY BY STATUS OF DRAWING DATE 1:7500 SHEET 1 OF 1 P109-51776-C1000(C) C		– DJW 1 WORK NAME	11JAN21 DC / DP DC DATE CHECKED DESIGNED	DRAFT 11JAN21	SCALE DRAWING NO.	REV.
	<u>^</u>	ORDER DRAWN E	BY BY BY	STATUS OF DRAWING DATE	1:7500 SHEET 1 OF 1 P109-51776-C	C1000(C) C



MOBILIZE & ESTABLISH BALLAST MATERIAL	
AS REQUIRED TO PREVENT WIND UPLIFT -	
— ALL AROUND (SEE NOTE 6)	

PLOT SCALE: 1 : 1



Appendix E- Design Drawings for Temporary Sewage Lagoon



							PROFESSIONAL STAMP
_	SDM	21MAY22	_	MH	_	_	
_	KMP	03MAY21	DC	DC	TENDER	23APR21	
_	BJB	23APR21	DC/DP	DC	TENDER	23APR21	
_	DJW	21JAN21	DC/DP	DC	TENDER	21JAN21	
_	SH	11JAN21	HG / DP	HG	DRAFT	11JAN21	
WORK	NAME	DATE	CHECKED	DESIGNED	STATUS OF DRAWING		
ORDER	DRAW	/N BY	BY	BY	STATUS OF DIVAMING	DATE	
PLOT SCALE: 1 : 1			10	11	12	13	



3 0m