Project Name:	**2159- Senex QGP EOLF Earthworks - SENENE**	**Document No.:**	OPS-MIMP-QA-ITP-040	**Legend**		**Legend**		**Legend**			
Contractor Name:	**RSA**	**Revision:**	0	HP	HOLD POINT	TP	Third Party	CHK		Check	
Client Name:	**SENEX ENERGY**	**Revision Date:**	7/07/2025	WP	WITNESS POINT	SUR	Surveyor	R		Review	
Contract No:		**Prepared By:**	Justine John	RE	REVIEW	TST	Test	INS		Inspect	
Work Package:		**Checked By:**	Von Jones	D	DOCUMENT	VIS	Visual				
Property Name:		**Approved By (Client):**		M	MONITOR	ITC	Inspection & Test Checklist				
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1	**Preliminary**												
1.1	Survey and Setout	RSA	n/a	The contractor shall be responsible for engaging a licensed surveyor of Australia approved by the Superintendent to set out all works in accordance with the design drawings prior to the commencement of the works	Prior to commencement	ITC	HP	RSA			HP	Senex	
1.2	Material Procurement	RSA	n/a	RSA shall provide Senex with a copy of QA documentation that demonstrates compliance with material properties of each unit outlined in the SOW prior to commencing the work.		ITC	HP	RSA			HP	Senex	
1.3	Survey benchmark	Principal	n/a	No material will be excavated until a joint survey of the existing surface has been performed by the contractor and the client.	Prior to commencement	ITC	HP	RSA			HP	Senex	
2	**Clear and Grub and Topsoil Strip**												
2.1	Clearing grubbing	RSA	OPS-MIMP-CS-GAR-014	Extent of clearing and grubbing to be confirmed with Senex. Roots and vegetation cleared shall be stockpiled at a location specified in the ESC plan	1/Lot	ITC	VIS	RSA			VIS	Senex	
2.2	Topsoil Sripping	RSA	OPS-MIMP-CN-SOW-0009_1-MIMP Civil Earthwors Construction SoW	Application of gypsum before topsoil strip (0.5kg/m2/100mm layer). 150mm of Topsoil shall be stripped such that all organic-rich soil and roots/ rootlets have been removed from the foundation of the embankment and internal borrow areas.	1/Lot	ITC	HP	RSA			HP	Senex	
2.3	Stockpile of Materials	RSA	OPS-MIMP-CS-GAR-014	Topsoil is to be placed in a loose, non-compacted state, to a maximum height of 3 metres, with batter slopes no greater than 1v:6H. The stockpile area must be clear of earthworks, drainage structures, obstructions, and other permanent works and must be free draining. Stripped topsoil shall be stockpiled where directed by the superintendent for reuse. Weed-contaminated soil is to be separated from non-contaminated soil stockpiles to prevent cross-contamination.	1/Lot	ITC	HP	RSA			HP	Senex	
2.4	Survey after topsoil removal	RSA	OPS-MIMP-CS-GAR-014	As-constructed survey has been completed to record the surface levels on completion of topsoil stripping.	As required	ITC	CHK	RSA			CHK	Senex	
3	**Foundation Preparation**												
3.1	Ground Surface Treatment	RSA	Technical Specification	The top 150mm below foundation surface level shall be scarified, watered, and compacted to a density ratio of not less than 100% of SMDD to AS 1289.5.1.1. Inspection being conducted befor proof rolling	1/2500 m3	ITC	HP	RSA			HP	Senex	
3.2	Proof Roll	RSA	Technical Specification	The contractor shall proof roll the entire exposed foundation surface within 24 hours of ground surface treatment to identify any soft or loose material. Proof rolling shall be undertaken with a fully loaded water cart or similar equipment, which has a minimum ground bearing pressure of 400 kPa. The rear axle of the fully laden water truck shall be loaded to at least 8.0 tonnes and fitted with dual tyres. Areas of subgrade identified by the superintendent as unsuitable material shall be excavated and replaced with material conforming to the requirements of the overlying fill zone	1/Lot	ITC	WP/HP	RSA			WP/HP	Senex	
3.3	Foundation Survey	RSA	Technical Specification	Survey of the excavated foundation surface shall be undertaken prior to placement of general fill.	1/Lot	ITC	CHK	RSA			CHK	Senex	
4	**Earth Work Construction**												
4.1	Lot Identification	RSA	Technical Specification	Location of works identified by the project technical specification.	1/Lot	ITC	CHK	RSA			CHK	Senex	
4.2	Underlying Lot Conforms	RSA	Technical Specification	Foundation preparation works completed in the underlying lot.	1/Lot	ITC	CHK	RSA			CHK	Senex	

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4.3	General Fill Material Requirement	RSA	Technical Specification	**Grading Requirements** 75mm sieve passing - 100 % 37.5mm sieve passing - 80-100 % 9.5mm sieve passing - 60-100 % 4.75mm sieve passing - 40-100 % 0.425mm sieve passing - 20-95 % 0.075mm sieve passing - 10-85 % **Indicator Requirements** Plasticity plots: above the 'A'- line Weighted Plasticity Index - <3200 Emersion Crumb: ≥ 3 Compaction standard: ≥ 95% SMDD Moisture content: Moisture conditioned at or near OMC	1/Lot	Laboratory test Certificate	CHK	RSA			CHK	Senex	
4..4	Compaction Trials	RSA	Technical Specification	Compaction trials must be undertaken to assess the equipment and work methods which will achieve the necessary moisture content and compaction requirements. The trials must be continued until at least four out of every five consecutive tests taken conform to the specification in respect of grading, moisture content, and relative density.	1/Lot	Laboratory test Certificate	HP	RSA			HP	Senex	
4.5	Fill placement	RSA	Technical Specification	Placed in continuous, approximately horizontal layers for the full width of the area, under level 1 supervision in layers not exceeding 250mm loose depth. If the surface of any layer is smooth, it must be scarified to a depth of approximately 30 to 50 mm before the placement of the next layer. Each layer of general fill material must be compacted with equipment determined appropriate by compaction trials, or as approved by the Senex representative. Adjacent to structures, pipes, and other services, the operation of heavy mobile equipment must be restricted. In such instances, special compaction using mechanical tampers or other equivalent methods as approved by the Engineer must be adopted. **≥ 100 % standard MDD** **placed as near as OMC** **Under level 1 supervision**	1/Lot	Level 1 compaction Certificate	CHK	RSA			CHK	Senex	
4.6	Proof Roll	RSA	Technical Specification	The contractor shall proofroll the general fill layer to identify any soft or loose material. Proof rolling shall be undertaken with a fully loaded water cart or similar equipment, which has a minimum ground bearing pressure of 400 kPa. The rear axle of the fully laden water truck shall be loaded to at least 8.0 tonnes and fitted with dual tyres. Areas of general fill layer identified by the superintendent as unsuitable shall be excavated and replaced with material conforming to the requirements of the overlying fill zone	1/Lot	ITC	CHK	RSA			CHK	Senex	
4.7	Testing	RSA	Technical Specification	**General Fill** Density Ration Particle Size Distribution Atterberg Limits CBR Testing Emersion Crumb Dispersion	1/Lot	Laboratory test Certificate	CHK	RSA			CHK	Senex	
4.8	Survey	RSA	Technical Specification	The contractor should carry out a general survey of the finished general fill layer.	1/Lot	ITC	CHK	RSA			CHK	Senex	
5	**Hardstand Construction**												
5.1	Lot Identification	RSA	Technical Specification	Location of works identified by the project technical specification.	1/Lot	ITC	CHK	RSA			CHK	Senex	
5.2	Material Requirement	RSA	Technical Specification	The gravel used should be of Type 2.3	1/Stockpile	Material supplier specification letter	CHK	RSA			CHK	Senex	

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5.3	Proof roll of subgrade	RSA	Technical Specification	The contractor shall proofroll the general fill layer to identify any soft or loose material. Proof rolling shall be undertaken with a fully loaded water cart or similar equipment, which has a minimum ground bearing pressure of 400 kPa. The rear axle of the fully laden water truck shall be loaded to at least 8.0 tonnes and fitted with dual tyres. Areas of general fill layer identified by the superintendent as unsuitable shall be excavated and replaced with material conforming to the requirements of the overlying fill zone	1/Lot	ITC	CHK	RSA			CHK	Senex	

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5.4	Placement of material	RSA	Technical Specification	Placed in continuous, approximately horizontal layers for the full width of the area, under level 1 supervision in layers not exceeding 250mm loose depth by AS3798. If the surface of any layer is smooth, it must be scarified to a depth of approximately 30 to 50 mm before the placement of the next layer. Each layer of general fill material must be compacted with equipment determined appropriate by compaction trials, or as approved by the Senex representative. **≥ 100 % standard MDD** **Under level 1 supervision**	1/Lot	ITC	CHK	RSA			CHK	Senex	
5.5	Material Testing	RSA	Technical Specification	Hard stand should be tested for material characteristics and compaction. **≥ 100 % standard MDD**	1/Lot	Laboratory test Certificate	CHK	RSA			CHK	Senex	
5.6	As built Survey	RSA	Technical Specification	Finished levels checked for vertical and horizontal tolerances as required.	1/Lot	ITC	CHK	RSA			CHK	Senex	
6	**Surface Water Runoff Management**												
6.1	Lot Identification	RSA	Technical Specification	Location of works identified by the project technical specification.	1/Lot	ITC	CHK	RSA			CHK	Senex	
6.2	Finished trimmed surface inspection	RSA	Technical Specification	The finished trimmed surface shall be inspected by the Senex prior to topsoil placement.	1/Lot	ITC	HP	RSA			HP	Senex	
6.3	Gypsum application	RSA	Technical Specification	The finished trimmed surface shall be cross-ripped to 200mm. Topsoil shall be ameliorated with agricultural gypsum (MRTS 16b) at 10kg/loose m3 or 1kg/m2/100mm layer of soil OR (10t/ha/100mm). The gypsum mixing methodology should be submitted to the Senex representative for approval.	1/Lot	ITC	HP	RSA			HP	Senex	
6.4	Finished surface Amelioration	RSA	Technical Specification	Finished surface should be ameliorated with fertilizer at 2.5kg/100m2.	1/Lot	ITC	CHK	RSA			CHK	Senex	
6.5	Stock pile survey	RSA	Technical Specification	Topsoil within existing stockpiles shall be verified prior to topsoil placement to estimate the volume.	1/Lot	ITC	HP	RSA			HP	Senex	
6.6	Placement of topsoil	RSA	Technical Specification	Topsoil shall be spread to a minimum thickness of 150mm.	1/Lot	ITC	CHK	RSA			CHK	Senex	
6.7	Seeding/Hydro mulch	RSA	Technical Specification	The finished surfaces are to be stabilised by seeding using quality organic conditioner hydromulch with seed or compost at 12mm thick with seed.	1/Lot	ITC	CHK	RSA			CHK	Senex	
7	**Erosion and Sediment Control installation**												
7.1	Lot Identification	RSA	Technical Specification	Location of works identified by the project technical specification.	1/Lot	ITC	CHK	RSA			CHK	Senex	
7.2	Sediment Fence installation	RSA	Technical Specification	Fabric, Fabrick reinforcement and support posts should be installed according to the technical specification	1/Lot	ITC	CHK	RSA			CHK	Senex	
7.3	Coir Logs	RSA	Technical Specification	A 200 to 250mm jute, coir, or straw roll should be installed after discussing with the Senex representative.	1/Lot	ITC	CHK	RSA			CHK	Senex	

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7.4	Dumped Rock Protection	RSA	Technical Specification	The finished surface shall be inspected by the Senex representative prior to the placement of BIDIMA34 geotextile. The dumped rock using should be D50=200MM. **Grading** Paricle Size 400mm : 100 % Passing 200mm : < 50 % 100mm : <10 % Plasticity density : ≥ 2.6 t/m3 Water absorption: ≤ 2.0 % LAV : ≤ 35 % UCS : ≥ 50MPa% Sodium Sulphate soundness average loss ≤ 9 %	1/Stockpile	Material supplier specification letter	CHK	RSA			CHK	Senex	

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	Completed By										**Approved By**		
	Contractor Representative		**Senex Construction Representative**								**Client Representative**		
	Name:		**Name:**								**Name:**		
	Position:		**Position:**								**Position:**		
	Company:		**Company:**	Senex							**Company:**	Senex	
	Signature		**Signature**								**Signature**		
	Date:		**Date:**								**Date:**		
NOTE: All fields are to be completed and initialled as appropriate. Any non-applicable fields shall state "N/A".													