BHP Mineral Resources Oak Grove Exploration Project - Responses to New Mexico State Agency Comments.		
Comment #	Agency Comment	BHP Response
New Mexico	Mining and Minerals Division (MMD) Comments	
1	1. Section 6.C states that groundwater is anticipated to be encountered during exploration. Are there any known aquifers that might be encountered during drilling and if so at what depths?	Groundwater is anticipated based on review of depth to groundwater information from drill sites in the general area. There are no known aquifers in the proposed project area.
2	2. Section 6.B states "in the event water is encountered while drilling, a thicker mud would be pumped into the drill to plug the water source." What is the management plan if multiple aquifers are encountered to prevent the commingling of aquifers? For example, will telescopic casing be used?	BHP Mineral Resources, Inc (BHP) and National EWP Inc. (National) propose to implement a drilling plan that allows for thick mud (bentonite) to be used throughout the drilling process.
3	3. Section 8.A provides an estimated financial assurance amount of \$46,150.00. MMD has calculated the financial assurance to be \$91,237.74, based on MMD's 2013 guidance document. A financial assurance instrument will need to be provided with this amount.	BHP is in receipt of this information and is coordinating for the financial assurance instrument.
New Mexico Comments	Environment Department (NMED) Mining Environmental Compliance S	Section (MECS) Ground Water Quality Bureau
4	MECS personnel reviewed the Office of the State Engineer (OSE) Points of Diversion (POD)database to evaluate the presence of ground water production wells in the area of the proposed project. Ground water production wells (livestock watering) were listed in the OSE database in the vicinity of the proposed project. The total dissolved solids (TDS) concentration of ground water is not stated in the application. In the likely instance ground water is encountered while advancing the boring to the potential total depth of 5,000 feet below ground surface, plugging, and abandonment of the boring should comply with OSE regulations for wet holes. The Applicant indicates either mud pits or mud tanks will be utilized during drilling activities. In addition, the Applicant indicates at the conclusion of the exploration project, all drill cuttings and desiccated drilling mud will be removed from the site and disposed in accordance with state and federal regulations.	BHP and National acknowledge this information and will follow the appropriate regulations depending on whether groundwater is encountered.

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5	NMED finds that the exploration project is likely to have a minimal impact	Comment noted.
	to the environment if operated and reclaimed with the approved permits,	
	pollution controls, and the comments above.	
NMED Surfa	ce Water Quality Bureau Comments	
6	This Project will disturb one or more acres and storm water discharges may	Comment noted.
	be covered under either the U.S. Environmental Protection Agency	
	(USEPA) National Pollutant Discharge Elimination System (NPDES)	
	Construction General Permit (CGP) or under the Multi-Sector General	
	Permit (MSGP) under Sector G Metal Mining.	
7	Among other things, a SWPPP must be prepared for the site and that	Westland Resources, Inc. has submitted a request for a
	appropriate Best Management Practices (BMPs) be installed and	NPDES permitting waiver with EPA for the Project.
	maintained both during and after construction to prevent, to the extent	Should permit coverage under the CGP be required,
	practicable, pollutants (primarily sediment, oil & grease and construction	that would be obtained.
	materials from construction sites) in storm water runoff from entering	
	waters of the U.S. This permit also requires that permanent stabilization	BHP acknowledges that if the Project transitions into
	measures (revegetation, paving, etc.), and permanent storm water	mining activities, MSGP coverage would be required at
	management measures (storm water detention/retention structures, velocity	that time.
	dissipation devices, etc.) be implemented post construction to minimize, in	
	the long term, pollutants in storm water runoff from entering these waters.	
	Operators of certain small construction activity (disturbance of one to five	
	acres) may be waived from permit requirements under limited	
	circumstances. To be eligible for this waiver, operators must certify to	
	EPA that they are eligible (see Section 9 Appendix C of the CGP).	
	Waivers are only available to stormwater discharges associated with small	
	construction activities (i.e., 1-5 acres). If this Project transitions into	
	mining activities, MSGP coverage would be required at that time.	
8	The following best management practices are recommended to protect	These measures and practices will be incorporated into
	surface water quality:	BHP's project.
	• Fuel, oil, hydraulic fluid, lubricants, and other petrochemicals must have	
	a secondary containment system to prevent spills.	
	• Ground water sump pits may not be used as disposal locations for	
	hydraulic fluids, oils, contaminated drilling mud or other materials that	
	may pose a pollution risk to surface and ground water.	

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	• Appropriate spill clean-up materials such as absorbent pads must be	
	available on-site at all times during road construction, site preparations,	
	drilling and reclamation to address potential spills.	
	• Report all spills immediately to the NMED as required by the New	
	Mexico Water Quality Control Commission regulations (20.6.2.1203	
	NMAC). For non-emergencies during normal business hours, call 505-428-	
	2500. For non-emergencies after hours, call 866-428-6535 or 505-428-	
	6535 (voice mail, twenty-four hours a day). For emergencies only,	
	call 505-827-9329 twenty-four hours a day (NM Dept of Public Safety).	
9	The SWQB finds the Applicant's proposed exploration is likely to have a	Comment noted.
	minimal impact to surface waters if operated and reclaimed with the	
	approved permits and pollution controls and the comments above.	
NMED Air (Quality Bureau	
10	The New Mexico Mining Act of 1993 states that "Nothing in the New	Comment noted.
	Mexico Mining Act shall supersede current or future requirements and	
	standards of any other applicable federal or state law." Thus, the applicant	BHP and National acknowledge this information and
	is expected to comply with all requirements of federal and state laws	will comply with applicable air quality requirements.
	pertaining to air quality. Current requirements which may be applicable in	
	this mining project include, but are not limited to the following:	
	Paragraph (1) of Subsection A of 20.2.72.200 NMAC, Application for	
	Construction, Modification, NSPS, and NESHAP - Permits and Revisions,	
	states that air quality permits must be obtained by:	
	"Any person constructing a stationary source which has a potential	
	emission rate greater than 10 pounds per hour or 25 tons per year of any	
	regulated air contaminant for which there is a National or New Mexico	
	Ambient Air Quality Standard. If the specified threshold in this subsection	
	is exceeded for any one regulated air contaminant, all regulated air	
	contaminants with National or New Mexico Ambient Air Quality	
	Standards emitted are subject to permit review."	
	Further, Paragraph (3) of this subsection states that air quality permits must	
	be obtained by:	
	"Any person constructing or modifying any source or installing any	
	equipment which is subject to 20.2.77 NMAC, New Source Performance	
	Standards, 20.2.78 NMAC, Emission Standards for Hazardous Air	

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	<i>Pollutants</i> , or any other New Mexico Air Quality Control Regulation which contains emission limitations for any regulated air contaminant." Also, Paragraph (1) of Subsection A of 20.2.73.200 NMAC, <i>Notice of</i> <i>Intent</i> , states that: "Any owner or operator intending to construct a new stationary source which has a potential emission rate greater than 10 tons per year of any	
	regulated air contaminant or 1 ton per year of lead shall file a notice of intent with the department."	
11	In addition, pursuant to Subsection A of 19.10.3.302 NMAC, <i>Minimal Impact Exploration Operations:</i> "A minimal impact exploration operation will not exceed 1000 cubic yards of excavation per permit. Disturbances for constructed roads, drill pads and mud pits shall be no more than 5 acres total and will not be counted in the excavated materials. The type of road construction, the number and type of drill pads, and other disturbances when considered with site specific conditions will be major factors in determining eligibility for minimal impact status which is in the discretion of the director."	Comment noted.
12	The above is not intended to be an exhaustive list of all requirements that could apply. The applicant should be aware that this evaluation does not supersede the requirements of any current federal or state air quality requirement.	Comment noted.
13	Fugitive dust is a common problem at mining sites and this project will temporarily impact air quality as a result of these emissions. However, with the appropriate dust control measures in place, the increased levels should be minimal. Disturbed surface areas, within and adjacent to the project area, should be reclaimed to avoid long- term problems with erosion and fugitive dust. EPA's <i>Compilation of Air</i> <i>Pollutant Emission Factors, AP-42, "Miscellaneous Sources"</i> lists a variety of control strategies that can be included in a comprehensive facility dust control plan. A few possible control strategies are listed below: Paved roads: covering of loads in trucks to eliminate truck spillage, paving of access areas to sites, vacuum sweeping, water flushing, and broom sweeping and flushing.	These measures and practices will be incorporated into BHP's project plan.

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	Material handling: wind speed reduction and wet suppression, including	
	watering and application of surfactants (wet suppression should not	
	confound track out problems).	
	Bulldozing: wet suppression of materials to "optimum moisture" for	
	compaction.	
	Scraping: wet suppression of scraper travel routes.	
	Storage piles: enclosure or covering of piles, application of surfactants.	
	Miscellaneous fugitive dust sources: watering, application of surfactants or	
	reduction of surface wind speed with windbreaks or source enclosures.	
14	The AQB has no objection to the current request for a minimal impact	Comment noted.
	exploration permit from MMD .	
	The applicant is expected to comply with all requirements of federal and	
	state laws pertaining to air quality. This written evaluation does not	
	supersede the applicability of any forthcoming state or federal regulations.	
State of New	Mexico Department of Cultural Affairs Historic Preservation Division (L	etter Dated December 19, 2019)
15	On behalf of the New Mexico State Historic Preservation Officer (SHPO) I	Comment noted.
	want to thank you for cooperating with the SHPO in regards to the	
	aforementioned project. I have reviewed the submitted document entitled	
	"A Cultural Resources Inventory for Proposed Mineral Exploitation	
	Activities on US. Bureau of Land Management (Las Cruces District) Land	
	South of Silver City, Grant County, New Mexico (NMCRIS #143562)".	
	The SHPO concurs with the report's findings and recommendations of	
	eligibility and/or effects as proposed	
Office of Sta	te Engineer	
16	1. Discrepancies within the application and attachments	1a. Comment Noted. The first page title of Attachment
	a. Attachment 1 First page title states "Range" 20 South. Looks like, it	1 should read Township 20 South, not Range 20 South.
	should be "Township" 20 South.	
	b. Unclear which cementing will be used during the abandonment of the	1b. Abandonite and Portland cement are proposed for
	borehole	use in the abandonment of the borehole depending on
	i. Needs to be consistent: currently there are two different types of the	weather water is encountered during drilling. If artesian
	cementing agent provided In the "Plugging Plan" submitted to the District	water is encountered Portland cement will be used from
	3 office and in the MMD application.	the bottom of the borehole to 2 feet below the surface
		with 2 feet of topsoil to the surface, and abandonite
		would not be used. If no flowing water is encountered,

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		abandonite would be used from bottom of the borehole to 12 feet below the surface, then 10 feet of Portland cement and 2 feet of top soil to the surface (See Attached Borehole Diagram).
17	 2. Groundwater a. Based on the proposed borehole depth, it is most likely that groundwater would be encountered. It is also very likely that groundwater at this depth may be under artesian conditions and/or the stratified aquifer conditions which will require additional administrative filings with the NMOSE through our District 3 Office. b. In the unlikely event that no water is encountered MMD regulations (19.10.3 NMAC) will prevail and NMOSE regulations (19.27.4 NMAC) would not apply. c. It has been confirmed that the Applicant has filed an application for a <i>Permit to Drill a Well with No Water Right</i> and a <i>Well Plugging Plan of Operations</i> with NMOSE District 3 Office (provided as Attachment 6 in the application) 	BHP and National acknowledge this information and will follow the appropriate regulations depending on whether artesian or non-artesian groundwater is encountered.
18	 3. Borehole Abandonment a. In the unlikely event that the groundwater is not encountered MMD regulations for plugging (Subsection L of 19.10.302 NMAC) will prevail over NMOSE regulations for plugging (Subsectjon C of 19.27.4.30 NMAC) b. If water is encountered NMOSE well plugging regulations (Subsection C of 19.27.4.30 NMAC for non-artesian conditions; Subsection K of 19.27.4.31 NMAC for artesian conditions) should be followed. 	BHP and National acknowledge and will comply with these requirements.
19	Two USGS 7.5-minute Topo maps (Tyrone and White Signal Quadrangles: web links provided in the references) and GIS data from NMOSE Geographic Information System database were used to locate surface water bodies in the vicinity of the proposed project drill site. The project site is approximately 4 miles north of the <i>Cherry Creek</i> intermittent stream and approximately 6.5 miles southwest of the tail of another intermittent stream, the <i>Rio de Arenas</i> . Subsection F of Section 6- <i>Groundwater/Surface</i> <i>Water Information</i> (page 16) of the MM D's "Part 3 Minimal Impact	BHP and National acknowledge this information, and will comply with these requirements. The proposed drill site is not located within 100 feet of any drainage.

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	Exploration Operation PERMIT APPLICATION INSTRUCTIONS"	
	(2012), suggests that drilling in or near water courses even if it is dry for	
	most of the year is not preferred and will likely result in some drilling	
	restrictions by the MMD. NMOSE regulation 19.27.4.29.P.(2)NMAC	
	notes that drilling fluids and cuttings shall not be allowed to migrate or be	
	discharged off property under the control of the well owner, and that no	
	drilling fluid or cuttings be discharged into any waters of the State. It	
	is recommended to avoid drilling in or within 100 feet of any drainages.	
	Using data from USGS topo maps and the NMOSE GIS layers, it does not	
	appear that the proposed location is within 100-feet of any drainage.	
20	Since it is likely that groundwater will be encountered, the NMOSE	National is a New Mexico-licensed well driller. BHP
	requirements for the drilling and plugging of the proposed borehole should	and National will comply with this requirement should
	be met. A Permit to Drill a Well with No Water Right for the proposed	artesian conditions be encountered.
	borehole (that encounter water) would be required (This permit application	
	has already been filed by the Applicant, but the NMOSE District 3 Office	
	may require the filing of an Artesian Well Plan of Operations if artesian	
	conditions are encountered). The NMOSE regulation 19.27.4 also requires	
	that the borehole be drilled by a New Mexico-licensed well driller.	
21	MMD regulations (19.10.3 NMAC) prevail over those of NMOSE (19.2	BHP and National acknowledge and will comply with
	7.4 NMAC) if groundwater is <i>not</i> encountered during exploratory drilling	MMD and NMOSE requirements.
	(this scenario is un-likely for the proposed borehole depth of 5000 feet).	
	For exploratory borings that do not encounter a water-bearing stratum,	
	MMD plugging regulation Subsection L of NMAC 19.10.3.302 addresses	
	MMD-preferred plugging alternatives. In the event that drilling does	
	encounter groundwater (a more likely scenario for the proposed borehole	
	under this application), pluggings should be according to either a pre-	
	approved plugging conditions attached to the NMOSE drilling permits, or	
	can be separately conditioned by a Well Plugging Plan of Operations, as	
	dictated by NMOSE Water Rights District 3 (Deming Office).	
22	Additional details regarding well plugging requirements under 19.27.4	BHP and National acknowledge and will comply with
	NMAC are included in the attached document ("General Concerns Related	the additional requirements provided in the attached
	to NMOSE Regulation of Exploratory Borehole Drilling Encountering	document.
	Groundwater and Associated Plugging of these Borings").	

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23	Plugging Plan provided to the NMOSE District 3 (Deming) Office notes	BHP and National acknowledge and will comply with
	that the borehole will be decommissioned with a high solids bentonite	these requirements. Mixing water will be tested to
	grout (with a limited upper interval of cement), while the responses	ensure chloride concentration and total hardness are
	provided to the MMD on page 18 of the MMD permit application note that	below these thresholds.
	the borehole will be entirely plugged with neat cement slurry. [If the	
	borehole is not flowing, a highsolids bentonite grout is an acceptable	
	sealant If. water chemistry does not preclude its use - Chloride	
	concentration in excess of 1500 mg/1 or total hardness in excess of 500	
	mg/l are derogatory to bentonlte sealant use, and bentonlte sealant should	
	not be used in this case]. Refer to the NMOSE guidelines for well	
	construction and plugging:	
	https://www.ose.state.nm.us/Statewide/Guidelines/SealantTableSigned.pdf.	
2.1	as well.	
24	Section 2.2 of the biological evaluation report has the error regarding the	Comment noted. Drilling, closure, and reclamation will
	OSE requiring a concrete pad around the surface casing. This borehole will	be conducted as outlined in the comments above.
	not be a monitoring well (unless the Applicant has failed to indicate as	
	such on their filings), and the NMOSE does not have a requirement for a	
	concrete pad around the monitoring well surface casing. If conversion of	
	the exploratory borehole to a monitoring well is being considered,	
	administrative filings with the NMOSE is required.	
New Mexico	Department of Game and Fish	
25	BHP is proposing to use closed loop drilling technology for the project,	These measures will be incorporated into the Project.
	utilizing an open tank approximately five feet in height to contain the	
	drilling fluids. The Department supports the use of closed loop drilling	
	techniques but recommends that a closed containment tank is used. If an	
	open containment tank is used, it should be covered or netted to exclude	
	flying and terrestrial animals from contacting drilling fluids. Extruded	
	plastic, knit or woven netting material is preferred. Monofilament nylon	
	netting should not be used due to its tendency to ensnare wildlife	
	and cause injury or death. All materials should be resistant to corrosion and	
	ultraviolet radiation. The Department recommends a mesh size of 3/8 inch	
	to exclude smaller animals. Netting must be held taut and securely fastened	
	to a rigid and adequately supportive frame to prevent sagging. Regular	

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	inspection and maintenance is critical to repair holes and to restore tension	
	to sagging netting material.	
26	The invasive noxious weed African rue (Peganum harma/a) is known to	These measures will be incorporated into the Project.
	occur in Grant County. African rue thrives on disturbed sites and along	
	roadsides. It is extremely drought tolerant and will undergo rapid	
	vegetative growth when soil moisture is available. African rue is extremely	
	toxic to horses, sheep, cattle and humans, containing at least four types of	
	poisonous alkaloids. In order to help control its spread into currently	
	undisturbed semi-desert grassland habitats, the Department recommends	
	that any vehicles and equipment arriving on site be thoroughly cleaned of	
	all visible dirt and mud in a manner that will help contain and control the	
	potential spread of weed seeds. The operator should also incorporate a	
	weed monitoring program that includes a commitment to aggressive	
	African rue control on the project site and access roads.	
27	For post-construction reclamation of the project area, the Department	The seed mix to be used will include only native seed
	recommends that only native plant species are used in the reclamation seed	and it will be approved by the Bureau of Land
	mix. The Department also recommends that the seed mix and mulch be	Management.
	certified weed-free, and that seed test results are requested	
	from the vendor in order to avoid inadvertently Introducing non-native	
	species to the reclamation site. Any alternate seeds used to substitute for	
	primary plant species that are unavailable at the time of reclamation should	
	also be native. When possible, the Department recommends using seeds	
	that are sourced from the same region and habitat type as the reclamation	
	site.	
Navajo National Heritage and Historic Preservation Department		
28	After reviewing your letter and cross referencing our Traditional Cultural	Comment noted.
	Properties (TCP's) database, NNHHPD-TCP has determined that there are	
	No Navajo TCP's in the project area and you may proceed without further	
	consultation for this project.	

